# Selected Vital Statistics and Health Status Indicators

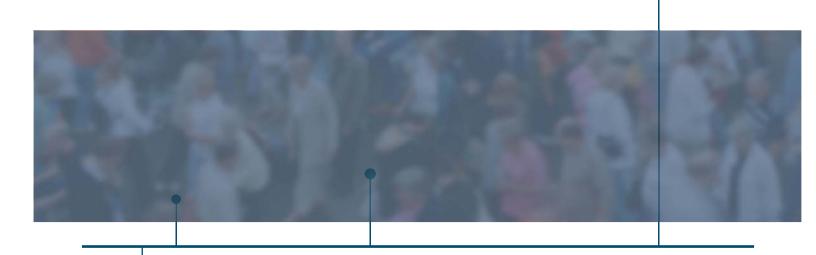


# ONE HUNDRED AND THIRTY-EIGHTH ANNUAL REPORT 2009

British Columbia Vital Statistics Agency



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### Foreword

The British Columbia Vital Statistics Agency (the Agency) is pleased to present the 2009 Annual Report, the one hundred and thirty-eighth published since the establishment of the Division of Vital Statistics in 1872. The tables, figures, and maps in this publication are based on information collected from registrations of live births, stillbirths, deaths, and marriages, as registered by the Agency for events occurring in the 2009 calendar year.

This publication contains approximately 100 tables, figures, and maps that summarize selected information about the vital events taking place in British Columbia (BC). Although some tables and information relate to vital events occurring within the province which may include visitors to BC, such as marriages, the majority are specific to residents of BC.

The information relating only to residents is important for evaluating and monitoring the health status of the province's population.

Throughout the report, key indicators are presented for the province's Health Authorities (HA), Health Service Delivery Areas (HSDA) and Local Health Areas (LHA). The report includes a detailed Glossary, defining the terms used in the body of the publication; as well as a Methodology section, explaining the statistical computations in the main body. A set of Information Boxes supplement the standard tables with information on a wide range of subjects, from a profile of a Typical Day in British Columbia to Place of Birth for Midwife Assisted Births and Usual Residence of People Married in 2009.

Beginning with the 2000 Annual Report, the Agency has presented data using the tenth revision of the World Health Organization's International Statistical Classification of Diseases and Related Health Problems (ICD-10) coding scheme. Where possible, this report follows a format consistent with previous annual reports that presented statistics from the current year along with comparative statistics from the preceding five years. However, some tables and figures present statistics prior to 2000 when an earlier version of the coding scheme (ICD-9) was in effect. Many changes in the codes and in the rules for selection of the underlying cause of death preclude direct comparison of ICD-9 and ICD-10 data. Extensive manual reviews using translation tables in conjunction with recoding of data from ICD-9 to ICD-10 enabled the production of trend data. This approach is unique to publications of the Agency.

The Agency would like to acknowledge the many groups and individuals who ensure complete and accurate recording of vital events. Their contributions have resulted in continual improvement in the quality of vital event data and the quality of this report.

Original signed by,

Jack Shewchuk Chief Executive Officer British Columbia Vital Statistics Agency

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### **General Information**



### Introduction

The Agency is responsible for the ascertainment, registration, and certification of vital events through the administration of the *Vital Statistics Act*, *Marriage Act*, and *Name Act*. Statistical information contained in this report is summary data provided by the Agency for use by government agencies, health planners, researchers, and the general public. In order to maintain confidentiality, the information does not disclose personally identifiable data.

#### Registrations

Section 44 of the *Vital Statistics Act* states: "As soon as convenient after January 1 in each year, the chief executive officer must make, for the use of the Legislative Assembly and for public information, a statistical report of the births, stillbirths, marriages, deaths, adoptions and changes of name registered during the preceding calendar year."

The table below is presented to fulfill these requirements.

VITAL EVENTS REGISTERED IN BRITISH COLUMBIA IN 2009

Event Type	Residents	Non-Residents	Total
Live Births	44,908	233	45,141
Deaths	31,227	289	31,516
Stillbirths	429	12	441
Marriages <sup>1</sup>	20,088	2,381	22,469
Adoptions	612	66	678
Changes of Name <sup>2</sup>	4,832	-	4,832

Note: ¹Residents include marriages where only one party was a British Columbia resident, as well as those where both parties were residents.

Although the *Vital Statistics Act* requires registration of events that occurred in the province, and Section 44 specifically requires that these be reported, vital events are often a reflection of the health status of the population; therefore, most of the information in this report pertains to residents. Specifically, live birth, stillbirth, and death statistics summarize events that occurred in the province to BC residents only, and exclude events to non-residents except where noted. Marriage statistics summarize all events that occurred in the province to either residents or non-residents. Vital events that occurred to BC residents outside the province are not shown in this report; Statistics Canada makes adjustments in its publications for events that occur to Canadians outside their province of usual residence.

<sup>&</sup>lt;sup>2</sup>These registrations resulted in 5,240 name changes.

#### VITAL EVENT DATA

Data presented in this report are based on registrations of birth, stillbirth, death, and marriage as reported to the Agency. Registration requirements for each type of event are outlined briefly as follows:

**Live Births**: The *Vital Statistics Act* prescribes the legal requirements for the registration of live births. The parent(s) of the child have the responsibility to complete the Registration of Live Birth within 30 days of the event. The physician or registered midwife who was in attendance at the birth must complete a Notice of Live Birth or Stillbirth (NOB) form which must be made available to the Agency within 48 hours of the event. Other requirements must be met if the birth was not attended by a physician or registered midwife.

**Stillbirths**: In the event of a stillbirth, the parent(s) must complete the Registration of Stillbirth. The physician or registered midwife who was in attendance at the birth must complete a Notice of Live Birth or Stillbirth (NOB) form. In addition, a physician or coroner is required to complete the Medical Certification of Stillbirth portion of the Registration of Stillbirth and deliver it to the funeral director who in turn submits it to the Agency.

**Deaths**: The physician in attendance at the last illness of the deceased person, or the coroner conducting an inquiry into the death of the person is required to complete a Medical Certification of Death. The Registration of Death is completed by the informant with assistance from the funeral home. The funeral home director submits both documents to the Agency to complete the registration and proceeds to issue the burial permit.

**Marriages**: The *Marriage Act* prescribes the legal qualifications of individuals to marry, the authorization of religious representatives and marriage commissioners to perform the marriage ceremony, and the solemnization of marriage. Under the *Marriage Act*, the Agency licences religious representatives of established religious denominations who desire the authority to solemnize marriage. The Agency recommends for appointment marriage licence issuers and marriage commissioners to perform civil ceremonies.

Couples who meet the legal qualifications to marry must obtain a marriage licence up to 90 days before the ceremony. They can choose a civil ceremony performed by a Marriage Commissioner or a religious ceremony performed by a religious representative. The Registration of Marriage is completed by the officiant after the ceremony, and must be signed by the officiant, the parties getting married, and two witnesses.

#### MEDICAL CODING

The Notice of Live Birth or Stillbirth (NOB) includes information on birth weight, gestation, and mode of delivery, as well as abnormalities of the infant and complications of pregnancy, labour, and delivery. The Medical Certification of Death and the Medical Certification 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 processed by medically trained staff using the World Health Organization's International Statistical Classification of Diseases (ICD) coding scheme. For deaths, the coding system is applied via coding software developed in the United States and distributed for use across Canada by Statistics Canada. In some instances the Agency's medical coding staff has determined that strict adherence to the automated ICD classification process would misstate the intention of the physician completing the Medical Certification of Death.

In these cases, the Agency deviates slightly from standard ICD coding software output for the material presented in this report. Data coded to automated ICD classification standards are maintained by the Agency for comparison to other jurisdictions and for submission to Statistics Canada. The data presented in this report do not necessarily correspond to data for BC published elsewhere.

Since the early 1900s, the ICD has been revised regularly in order to reflect advances in medical science and changes in diagnostic terminology. The ninth revision of ICD (ICD-9) was used for medical coding of birth complications and causes of death from 1979 until 1999. Coding according to the tenth revision (ICD-10) was implemented at the beginning of the year 2000. Many changes in the codes and in the rules for selection of the underlying cause of death precluded direct comparison of data in ICD-10 with data from earlier years. Translation tables were used, and extensive manual reviews and recoding of data from ICD-9 to ICD-10 were completed in order to be able to provide trend data in this annual report.

INTRODUCTION

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#### TIME PERIODS

This report pertains to events that occurred in the calendar year 2009. Selected tables present aggregate information for the previous five-year period. These broader time periods permit more meaningful tests of statistical significance when analyzing data at sub-provincial levels, and can smooth out random fluctuations that occur when annual numbers are small. For regional health status profiles, readers are encouraged to refer to measures of statistical significance and use data presented for the five-year aggregates.

The data for earlier years have been updated and may differ from other publications. Readers should treat this report as a replacement of previous publications and avoid comparisons with tables in earlier publications.

#### POPULATION DATA

Mid-year population estimates for incorporated communities, local health areas, and health regions were provided by BC STATS, Ministry of Citizens' Services. In the mortality section of this report, a 'standard population' is used in the calculation of Age Standardized Mortality Rates (ASMR) and Potential Years of Life Lost Standardized Rates (PYLLSR). The Agency has used the 1991 Canadian Census population as the 'standard population' in the calculation of these age-standardized measures since 1998. Please refer to Standard Population in the Glossary for a more detailed description and the Methodology section for examples of computations of measures and statistical tests.

#### SPATIAL ANALYSIS AND MAPPING

This report presents regional analyses using data dissemination areas used by the Ministry of Health Services (Health Authority (HA), Health Service Delivery Area (HSDA), and Local Health Area (LHA)) and for incorporated communities (see Figures 1 and 2). This continues the practice established in 2001 and provides HAs with a consistent time series of health status indicators for their regions. Health care services are managed and delivered by five HAs that govern, plan, and coordinate services regionally within 16 HSDAs. The Interior Health Authority encompasses four HSDAs. Fraser, Vancouver Coastal, Vancouver Island, and Northern Health Authorities each consist of three HSDAs. HSDAs can be further divided into LHAs. Vital events are allocated to these data dissemination areas by the postal codes recorded on registration documents.

Marriages are assigned geographically by the postal code of the location where the marriage ceremony was performed; other vital events are assigned by the usual residence of the parents (for live births and stillbirths) or the decedent (for deaths).

Converting statistical data to maps can often reveal relationships that are not readily discernable in tabular form. The maps in this report present local health area data ranked by quintiles and allow easy visual examination of spatial patterns. Although statistics for all LHAs are presented in the maps, emphasis should be placed on those that are statistically significant. Maps have been included in the Vital Statistics Annual Reports since 1989 in order to disseminate relevant community level health information to the public and to local health service providers, planners, and educators. These allow communities to address their own specific health challenges and identify local health priorities. This can foster locally based solutions and more appropriate decision making.

#### TERMS, METHODS, AND COMPUTATIONAL EXAMPLES

Readers are encouraged to refer to the Glossary for explanations of terms. The Methodology section provides examples of computations of measures and statistical tests.

figure 1

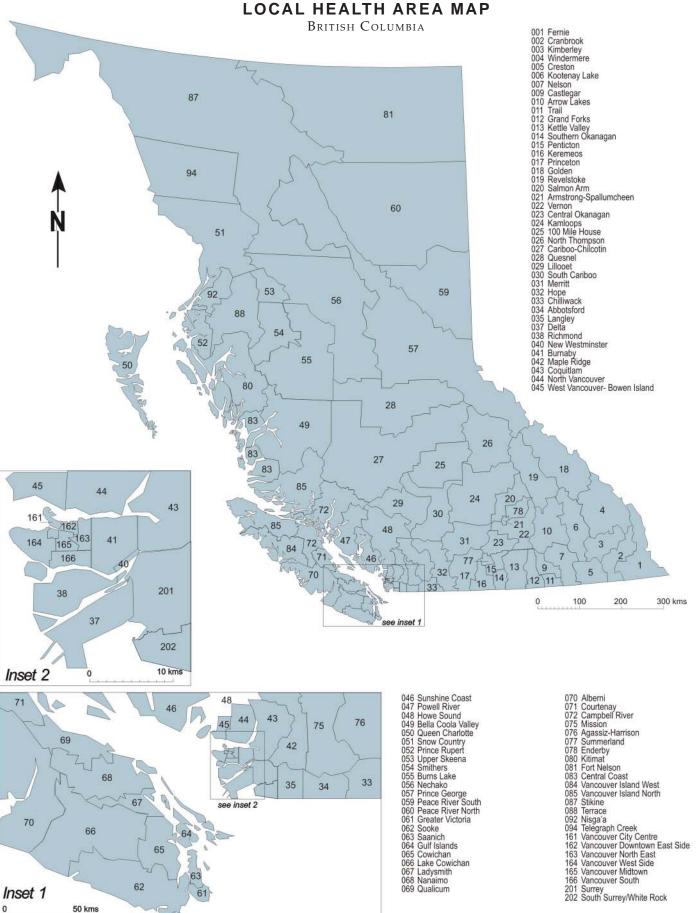
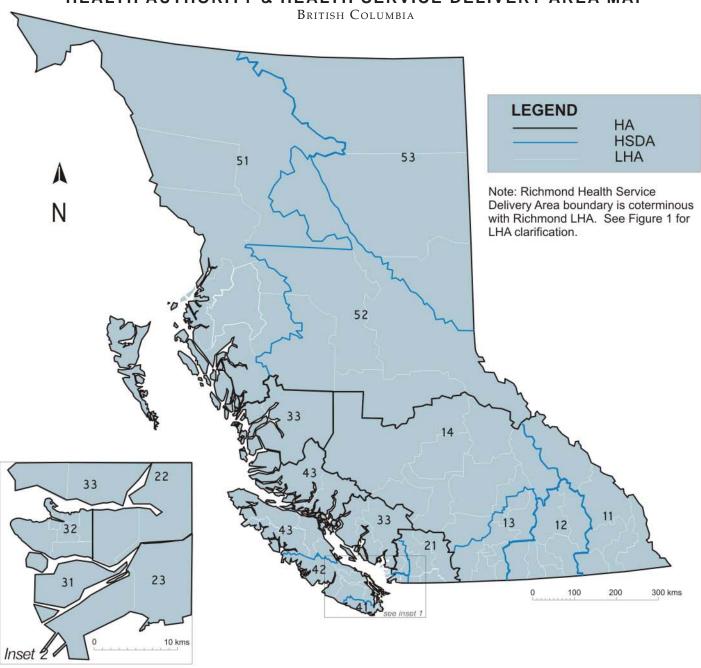
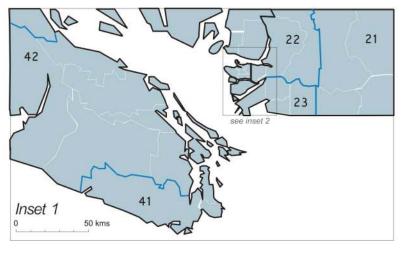


FIGURE 2
HEALTH AUTHORITY & HEALTH SERVICE DELIVERY AREA MAP





Hea	Ith Authorities	Health	Service Delivery Areas
01	Interior	11	East Kootenay
		12	Kootenay Boundary
		13	Okanagan
		14	Thompson Cariboo Shuswar
02	Fraser	21	Fraser East
		22	Fraser North
		23	Fraser South
03	Vancouver Coastal	31	Richmond
		32	Vancouver
		33	North Shore/Coast Garibaldi
04	Vancouver Island	41	South Vancouver Island
		42	Central Vancouver Island
		43	North Vancouver Island
05	Northern	51	Northwest
		52	Northern Interior
		53	Northeast
06	Provincial Health S	ervices	Authority

### **Trends in Vital Events**



#### Vital Statistics Information Box

#### On a Typical Day in British Columbia in 2009

#### 122 LIVE BIRTHS OCCURRED IN THE PROVINCE TO BC RESIDENTS:

- 63 males and 59 females were born
- 4 were born to teenage mothers
- 28 were born to mothers aged 35 years old or more
- 4 were multiple births
- 37 were cesarean deliveries
- 7 were low birth weight babies
- 9 were pre-term
- 64 live births involved maternal complications
- 43 babies had perinatal complications
- 10 stillbirths every 10 days

#### 86 DEATHS OCCURRED IN THE PROVINCE TO BC RESIDENTS:

- 44 males and 42 females died
- 67 deaths were seniors aged 65 years old or more including
  - 44 deaths aged 80 years old or more
- 6 deaths every 10 days were children less than 15 years old including
  - 4 infant deaths every 10 days
- 25 deaths were due to diseases of the circulatory system including
  - 18 from cardiovascular disease
  - 6 from cerebrovascular disease
- 24 deaths were due to malignant neoplasms (cancer) including
  - 6 from malignant neoplasm of trachea and lung
  - 3 from malignant neoplasm of colon and rectum
  - 2 from malignant neoplasm of female breast
- 9 deaths were due to diseases of the respiratory system including
  - 4 from pneumonia and influenza
  - 4 from chronic pulmonary disease
- 2 deaths every 10 days were due to HIV disease
- 5 deaths were from external causes including
  - 1 suicide
  - 1 motor vehicle accident
  - 1 unintentional fall
- 5 deaths were alcohol-related:
  - 1 directly due to alcohol and 4 indirectly due to alcohol
- 1 death was drug-induced
- 17 deaths were attributed to smoking

#### 62 MARRIAGES WERE SOLEMNIZED IN THE PROVINCE:

- 38 were civil ceremonies and 24 were performed by religious representatives
- 41 marriages were to couples where both parties were marrying for the first time
- 2 marriages every 10 days were to couples where both parties were teenagers

### Trends Introduction

The tables and figures in this part of the Annual Report provide a long term historical review of birth, death, and marriage statistics during the past few decades. They provide a broad context for the recent vital event statistics shown in other parts of this report. Long term trends are always useful for evaluating recent events and trends, so the tables and figures are often cross referenced to related tables in subsequent parts of the report.

#### Overview

This section begins with a review of population, live birth, stillbirth, death, and marriage trends. This is followed by information on natural population increases and vital events by month.

Table 1 summarizes vital events that occurred from 1950-2009 and includes the mid-year BC populations. The BC population has shown a steady increase since 1950 so the columns indicating the rates are the most telling of indicators.

The rate of live births to residents increased steadily from 1950 to 1957 (as shown in Table 1). It levelled until 1960, and then dropped quite rapidly during the next ten years after which the decline moderated but generally continued until 2005. Between 2005 and 2007, there was a slight increase in the rate of live births over previous years but has remained fairly constant in more recent years. The mortality rate has declined from about ten per 1,000 population in 1950 to about seven per 1,000 in the mid 1980s and remained at about that level until 2009.

Marriage information pertains to all marriages solemnized in the province, not only those to residents. The marriage rate was about ten marriages per 1,000 British Columbians in 1950 but declined to about seven per 1,000 in 1960, then rose again to almost the 1950 rate by 1970. Since then, the marriage rate has declined to about five marriages per 1,000 population in 2009.

Regarding stillbirths, readers should be aware that there was a change in definition which led to the apparent 'jump' in numbers and rates in 1963. That change, and another in 1986, is explained under Stillbirth in the Glossary. Other than the increase in 1963 and irregularities due to small numbers of stillbirths, rates generally declined until the early 1990s and have fluctuated around seven per 1,000 total births until 2005. The rates since 2006 have increased from 7.99 to 9.46 in 2009.

Table 2 and Figure 4 show the rate of natural population increase (NPI) in BC and Canada since 1950. Natural population growth is explained in the Glossary. Not counting migration into or out of BC, the population grew "naturally" by 13,681 or at the rate of 3.1 per 1,000 British Columbians in 2009. BC's rate of NPI has been consistently below Canada's except for the first half of the 1980s. Both BC's and Canada's rates have gradually declined since the late 1950s.

Table 3 and Figure 5 show the number of live births, deaths, marriages, and stillbirths to residents according to the month in which they occurred. The number of marriages each month includes residents and non-residents. The percent columns show the monthly percent of all events to residents, except marriages which show the percent of all marriages. The table also includes the number of live births, deaths and stillbirths to non-residents.

There is continual speculation and anecdotal evidence that vital events tend to occur in particular months or seasons. The data presented in Table 3 and Figure 5 may not put an end to that speculation, but live births and deaths were pretty evenly distributed across the months and seasons in 2009. On the other hand, there was a clear preference to marry during the summer months. Although there were fluctuations in the number and percentage of stillbirths, due to the small number of events, no trend was apparent.

TABLE 1

### LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BRITISH COLUMBIA, 1950-2009

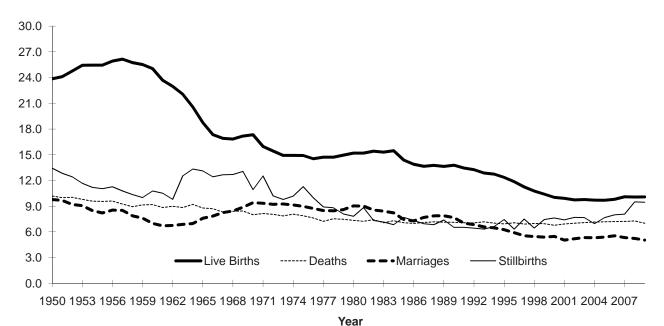
	l		ISH COLUMBIA,				l a	
	Mid-year	Live Births		aths	Marri	•	Stillb	
Year	Population	Number Ra	I		Number	Rate	Number	Rate
1950	1,137,000	27,116 23.	85 11,581	10.19	11,110	9.77	369	13.43
1951	1,165,210	28,077 24.	10 11,638	9.99	11,272	9.67	365	12.83
1952	1,205,000	29,827 24.	75 12,080	10.02	11,081	9.20	375	12.42
1953	1,248,000	31,746 25.	44 12,218	9.79	11,298	9.05	375	11.67
1954	1,295,000	32,946 25.		9.59	10,991	8.49	373	11.19
1955	1,342,000	34,138 25.		9.55	11,011	8.20	381	11.04
1956	1,398,464	36,241 25.		9.59	11,950	8.55	413	11.27
1957	1,482,000	38,744 26.		9.25	12,620	8.52	422	10.77
1958	1,538,000	39,577 25.		8.93	12,094	7.86	414	10.35
1959	1,567,000	39,971 25.		9.15	11,910	7.60	404	10.01
1960	1,602,000	40,116 25.		9.17	11,203	6.99	437	10.78
1961	1,629,100	38,591 23.	•	8.84	10,935	6.71	410	10.51
1962	1,660,000	38,128 22.	•	8.98	11,196	6.74	377	9.79
1963	1,699,000	37,478 22.		8.85	11,677	6.87	476	12.54
1964	1,745,000	35,897 20.		9.20	12,158	6.97	485	13.33
1965	1,797,000	33,669 18.	74 15,784	8.78	13,639	7.59	447	13.10
1966	1,873,674	32,502 17.	35 16,290	8.69	14,682	7.84	409	12.43
1967	1,945,000	32,899 16.	91 16,170	8.31	16,026	8.24	422	12.66
1968	2,003,000	33,687 16.		8.40	16,914	8.44	433	12.69
1969	2,060,000	35,383 17.		8.44	18,284	8.88	468	13.05
1970	2,128,000	36,861 17.		8.00	20,020	9.41	407	10.92
1971	2,184,620	34,852 15.		8.14	20,389	9.33	442	12.52
1972	2,241,400	34,563 15.		8.04	20,659	9.22	356	10.20
1973	2,302,400	34,352 14.		7.86	21,303	9.25	339	9.77
1973			•	8.07	21,734	9.25	364	10.16
	2,375,700				·			
1975	2,433,200	36,281 14.		7.87	21,824	8.97	414	11.28
1976	2,466,610	35,848 14.	•	7.62	21,536	8.73	361	9.97
1977	2,493,800	36,691 14.	•	7.23	21,156	8.48	330	8.91
1978	2,530,100	37,231 14.		7.53	21,388	8.45	331	8.81
1979	2,571,200	38,432 14.		7.47	22,087	8.59	313	8.08
1980	2,640,100	40,104 15.	19 19,371	7.34	23,830	9.03	316	7.82
1981	2,744,470	41,679 15.	19 19,857	7.24	24,694	9.00	371	8.82
1982	2,787,700	42,942 15.	40 20,704	7.43	23,831	8.55	317	7.33
1983	2,813,800	43,047 15.	30 19,895	7.07	23,692	8.42	310	7.15
1984	2,847,700	44,040 15.	47 20,781	7.30	23,394	8.22	303	6.83
1985	2,990,000	42,989 14.		7.07	22,270	7.45	333	7.69
1986	3,003,621	41,711 13.		6.99	21,847	7.27	308	7.33
1987	3,048,651	41,610 13.		7.09	23,418	7.68	291	6.94
1988	3,114,761	42,860 13.	·	7.18	24,519	7.87	295	6.84
1989	3,196,725	43,586 13.		7.13	25,179	7.88	324	7.38
								6.53
1990	3,292,111	45,347 13.		7.11	25,225	7.66 7.01	298	
1991	3,373,787	45,345 13.		7.06	23,667	7.01	298	6.53
1992	3,468,802	46,004 13.		7.05	23,761	6.85	298	6.44
1993	3,567,772	45,920 12.		7.18	23,482	6.58	292	6.32
1994	3,676,075	46,813 12.		7.03	23,776	6.47	312	6.62
1995	3,777,390	46,672 12.		6.94	23,637	6.26	350	7.44
1996	3,874,317	45,944 11.		7.07	22,881	5.91	292	6.32
1997	3,948,583	44,384 11.	24 27,264	6.90	21,884	5.54	335	7.49
1998	3,983,113	42,855 10.	76 27,809	6.98	21,780	5.47	278	6.45
1999	4,011,375	41,728 10.	40 27,893	6.95	21,629	5.39	313	7.45
2000	4,039,230	40,480 10.		6.77	22,095	5.47	311	7.62
2001	4,076,264		91 28,242	6.93	20,575	5.05	301	7.40
2002	4,098,178		73 28,715	7.01	21,264	5.19	309	7.69
2003	4,122,396		77 29,157	7.07	21,984	5.33	311	7.66
2004	4,155,170		70 29,727	7.15	22,088	5.32	282	6.95
2004	4,196,788		69 30,100	7.13	22,637	5.39	314	7.67
		•			•			
2006	4,243,580	•	80 30,542	7.20	23,518	5.54	335	7.99
2007	4,309,453	43,481 10.		7.22	22,974	5.33	354	8.08
2008	4,383,845	44,130 10.		7.28	22,976	5.24	423	9.49
2009	4,455,207	44,908 10.	08 31,227	7.01	22,469	5.04	429	9.46

#### Figure 3

### CRUDE RATES OF LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS

British Columbia, 1950-2009

#### Rate Per 1,000 Population



Note: Stillbirth rate per 1,000 total births

#### Notes for Table 1

Rates shown for live births, deaths and marriages are crude rates per 1,000 population. Stillbirth rate is per 1,000 total births (live births plus stillbirths). The definition of a stillbirth was revised in 1963 and 1986 (see Glossary). Population information from BC Stats, Ministry of Citizens' Services. Above information includes late registrations and amendments. Gender unknown included. Non-residents are excluded from all data except marriages.

confidence interval/a lue acquired immunogendency syndrome age standardization population total fertility rate standardized mortality ratio of the confidence interval/a lue acquired immunogendency syndrome age standardized mortality ratio of the confidence interval/a lue acquired immunogendency syndrome age standardized mortality ratio of the confidence interval/a lue acquired immunogendency syndrome age standardization and confidence interval/a lue acquired immunogendency syndrome age standardization and confidence interval/a lue acquired immunogendency syndrome age standardization age standardizat

TABLE 2
NATURAL POPULATION INCREASES

British Columbia and Canada, 1950-2009

	Ra		D CANADA, 1.	Rat	ie.
Year	B.C.	Canada	Year	B.C.	Canada
1950	13.7	18.0	1980	7.9	8.3
1951	14.1	18.2	1981	8.0	8.0
1952	14.7	19.2	1982	8.0	7.9
1953	15.6	19.5	1983	8.2	7.8
1954	15.9	20.3	1984	8.2	7.8
1955	15.9	20.0	1985	7.3	7.5
1956	16.3	19.8	1986	6.9	7.2
1957	16.9	20.0	1987	6.6	7.0
1958	16.8	19.6	1988	6.6	7.0
1959	16.4	19.4	1989	6.5	7.4
1960	15.9	19.0	1990	6.7	7.7
1961	14.8	18.4	1991	6.4	7.4
1962	14.0	17.6	1992	6.2	7.1
1963	13.2	16.8	1993	5.7	6.4
1964	11.4	15.9	1994	5.7	6.1
1965	10.0	13.7	1995	5.4	5.7
1966	8.7	11.9	1996	4.8	5.2
1967	8.6	10.8	1997	4.3	4.4
1968	8.4	10.2	1998	3.8	4.1
1969	8.7	10.3	1999	3.4	3.8
1970	9.3	10.1	2000	3.3	3.9
1971	7.8	9.5	2001	3.0	3.5
1972	7.4	8.5	2002	2.7	3.4
1973	7.1	8.1	2003	2.7	3.4
1974	6.8	8.0	2004	2.5	3.4
1975	7.0	8.5	2005	2.5	3.4
1976	6.9	8.4	2006	2.6	3.7
1977	7.5	8.4	2007	2.9	3.9
1978	7.2	8.1	2008	2.8	4.0
1979	7.5	8.4	2009	3.1	4.0

Note: Rates shown are rates of natural population increase per 1,000 population. Canadian rates from Statistics Canada. Non-residents are excluded. Canadian rates from 2000 to 2009 are from BC Stats.

 $\label{eq:Figure 4} F_{\text{IGURE 4}}$  TRENDS OF NATURAL POPULATION GROWTH

British Columbia and Canada, 1950-2009



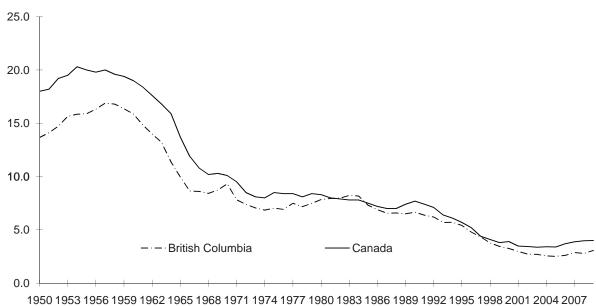
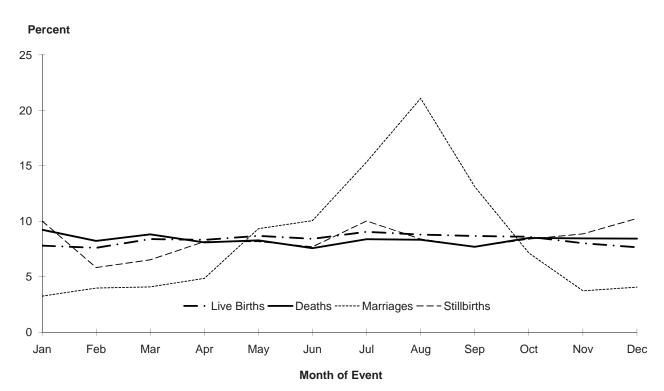


Table 3 LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BY MONTH British Columbia, 2009

	Live I	Births	Deaths		Marriages		Stillbirths	
Month	Number	Percent	Number	Percent	Number	Percent	Number	Percent
January	3,502	7.8	2,883	9.2	729	3.2	43	10.0
February	3,414	7.6	2,568	8.2	893	4.0	25	5.8
March	3,770	8.4	2,753	8.8	917	4.1	28	6.5
April	3,735	8.3	2,528	8.1	1,089	4.8	35	8.2
May	3,898	8.7	2,585	8.3	2,095	9.3	35	8.2
June	3,776	8.4	2,365	7.6	2,260	10.1	33	7.7
July	4,063	9.0	2,617	8.4	3,448	15.3	43	10.0
August	3,952	8.8	2,601	8.3	4,736	21.1	36	8.4
September	3,895	8.7	2,402	7.7	2,947	13.1	33	7.7
October	3,862	8.6	2,654	8.5	1,604	7.1	36	8.4
November	3,602	8.0	2,639	8.5	838	3.7	38	8.9
December	3,439	7.7	2,632	8.4	913	4.1	44	10.3
Residents*	44,908	100.0	31,227	100.0	22,469	100.0	429	100.0
Non-residents	233		289		*		12	
TOTAL	45,141		31,516		22,469		441	

Figure 5 LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BY MONTH British Columbia, 2009



Note: Total percentage may not add up to 100 due to rounding.

\*Marriage counts by month are based on event place and include non-residents.

#### Fertility and Live Birth Trends

The Total Fertility Rate (TFR) in Table 4 is the number of births 1,000 women can expect during their child bearing years, that is, from 15 to 44 years of age. It is described more fully in the Glossary and an example of the calculation method is shown in the Methodology section.

The fertility rate in BC today is about half the 1950s rate. Shortly after World War II, fertility began to increase, commonly referred to as the post war baby boom. As shown in Table 4, fertility rates increased from 1950 to 1960 after which there was a sharp decline until the late 1970s. This declining trend continued more slowly, with some fluctuations, until 2002. Since then, the fertility rates have increased until 2007 and levelled off in recent years at approximately 100 more births per 1,000 women compared with the 2002 rates. Figure 6 shows the fertility rates for the last two decades. Fertility by LHA and among teenagers is analysed in Table 10 and Figure 29 respectively.

In addition to trends in Total Fertility Rates, this section discusses trends in maternal age, multiple births, low birth weight, and cesarean section deliveries.

Figure 7 shows annual percentages of live births to women in three age groups for the years 1986-2009. The oldest group (aged 35 years or more) is gradually increasing its percentage compared to the two younger groups (less than 20 years and 20 to 34 years old). The average age at which women are bearing children is increasing, but still about three quarters of live births are to women in the 20-34 years age group. Maternal age is related to other important birth characteristics and is a component of several tables in the birth related statistics section of this report.

As illustrated by Figure 8, the percentage of births that are multiple births has increased substantially between 1986 and 2009. Multiple birth infants have a higher risk of being preterm, having low birth weight, or suffering perinatal death or illness than singletons. Multiple birth infants accounted for 1.9 percent of all live births in 1986 and 3.2 percent in 2009. This was a statistically significant increase at the 95 percent level.

Figures 9 and 10 both illustrate the occurrence of Low Birth Weight (LBW) live births (those births with a birth weight of less than 2,500 grams) over the period 1986-2009. Figure 9 shows both the counts of such births and the rates per 1,000 live births for all mothers. Figure 10 shows the rate per 1,000 live births for mothers 35 years and older. While LBW rates increased gradually from 46.9 in 1986 to 55.6 per 1,000 live births in 2009. The rate in older mothers has increased more sharply from 44.9 in 1986 to 68.9 per 1,000 live births in 2009. The trend in each of these graphs is statistically significant at the 95 percent level.

Three relevant indicators are presented in Figures 11, 12, and 13. The upward trend in the cesarean section rates since 1986 (Figure 11) is statistically significant at the 95 percent level. The rates appear to have levelled slightly in the last couple of years. Cesarean sections by Health Service Delivery Area (HSDA) varied considerably in 2009 (Figure 12) from a low of 24.9 percent of live births to residents of HSDA 42 - Central Vancouver Island to a high of 33.1 percent of live births to residents of HSDA 14 - Thompson Cariboo Shuswap.

An important consideration regarding cesarean sections is the age of the mother. There were clear differences between age groups (Figure 13), with cesarean rates highest for mothers aged 35 or older and lowest for teen mothers. All age groups showed upward trends that were statistically significant at the 95 percent level. The difference between rates also appears to be increasing over the last two decades.

Cesarean deliveries are shown in relation to other modes of delivery in Table 11 and by LHA in Table 12 and Figure 30.

<sup>&</sup>lt;sup>1</sup>http://www.multiplebirthscanada.org/english/documents/low\_birth\_bro\_final2005.pdf.

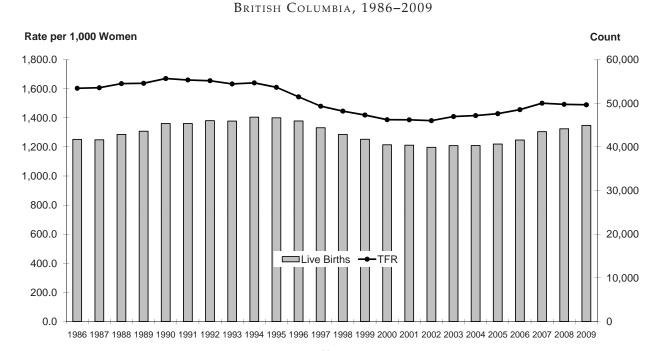
Table 4 TOTAL FERTILITY RATES

DRI	TISH	COLUM	IBIA,	1930	)-200	19
al Fertility						Total Fe
Rate	- 1	ive Births		Year		Rate

	Total Fertility			Total Fertility	
Year	Rate	Live Births	Year	Rate	Live Births
1950	3,074	27,116	1980	1,716	40,104
1951	3,201	28,077	1981	1,718	41,679
1952	3,327	29,827	1982	1,749	42,942
1953	3,542	31,746	1983	1,751	43,047
1954	3,656	32,946	1984	1,781	44,040
1955	3,748	34,138	1985	1,642	42,989
1956	3,875	36,241	1986	1,603	41,711
1957	3,921	38,744	1987	1,606	41,610
1958	3,900	39,577	1988	1,635	42,860
1959	3,958	39,971	1989	1,637	43,586
1960	3,949	40,116	1990	1,669	45,347
1961	3,785	38,591	1991	1,660	45,345
1962	3,709	38,128	1992	1,655	46,004
1963	3,564	37,478	1993	1,633	45,920
1964	3,284	35,897	1994	1,640	46,813
1965	2,710	33,669	1995	1,609	46,672
1966	2,442	32,502	1996	1,544	45,944
1967	2,307	32,899	1997	1,480	44,384
1968	2,228	33,687	1998	1,446	42,855
1969	2,223	35,383	1999	1,419	41,728
1970	2,185	36,861	2000	1,387	40,480
1971	1,994	34,852	2001	1,386	40,376
1972	1,890	34,563	2002	1,380	39,886
1973	1,751	34,352	2003	1,408	40,292
1974	1,735	35,450	2004	1,415	40,317
1975	1,682	36,281	2005	1,428	40,647
1976	1,618	35,848	2006	1,456	41,578
1977	1,636	36,691	2007	1,500	43,481
1978	1,620	37,231	2008	1,492	44,130
1979	1,721	38,432	2009	1,489	44,908

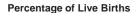
Note: Total Fertility Rate – Sum of age-specific fertility rates multiplied by the number of years in each age group (see Glossary for definition). Rates per 1,000 women age 15 to 44. Non-residents are excluded.

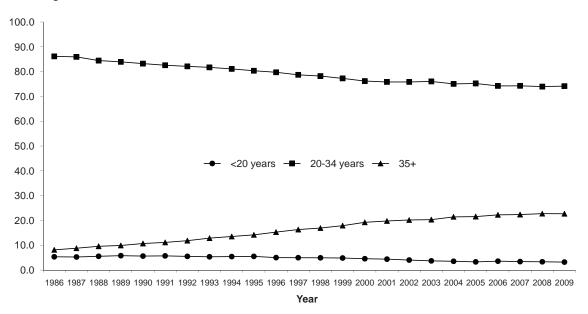
FIGURE 6 TOTAL FERTILITY RATES AND NUMBER OF LIVE BIRTHS



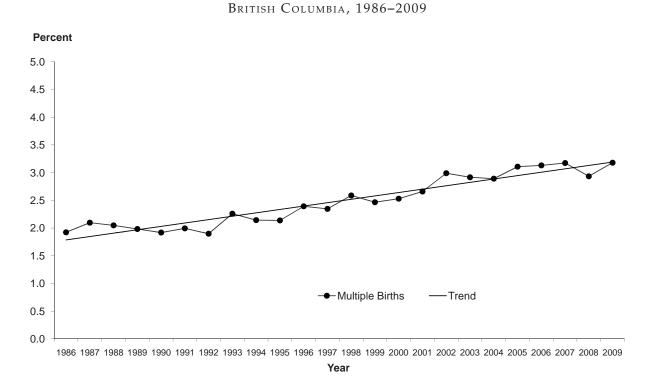
### FIGURE 7 LIVE BIRTHS BY AGE OF MOTHER

British Columbia, 1986-2009





 $$\rm Figure~8$$  Multiple births as a percentage of live births



## FIGURE 9 LOW BIRTH WEIGHT LIVE BIRTHS

British Columbia, 1986-2009

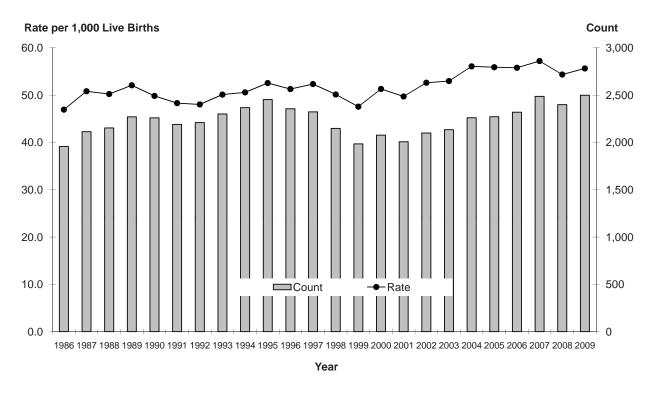
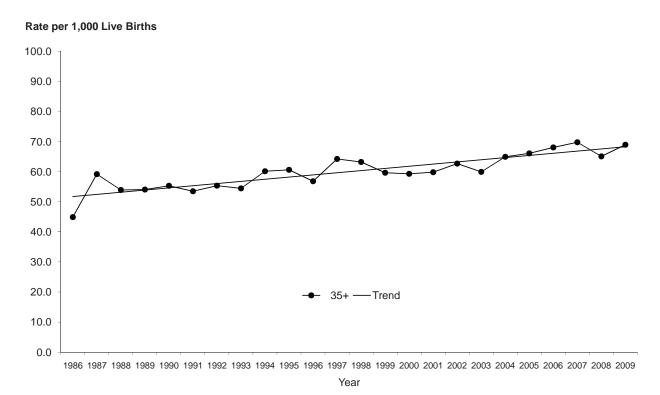


FIGURE 10

LOW BIRTH WEIGHT LIVE BIRTHS FOR MOTHERS AGED 35+
BRITISH COLUMBIA, 1986-2009



## FIGURE 11 CESAREAN SECTIONS

British Columbia, 1986-2009

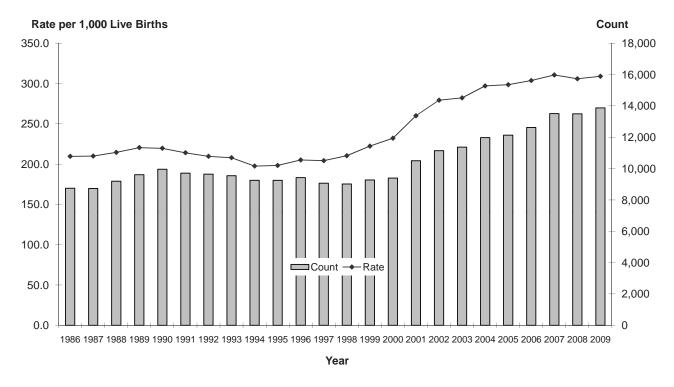
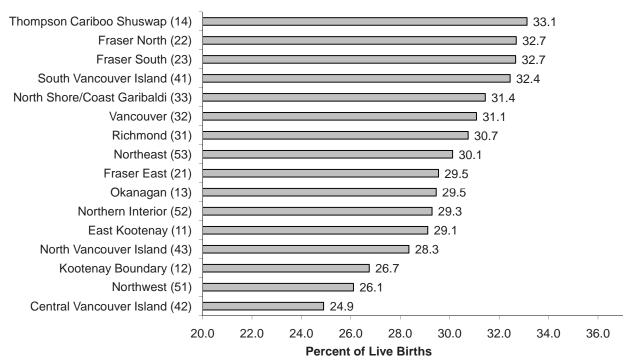


FIGURE 12

CESAREAN SECTIONS BY HEALTH SERVICE DELIVERY AREA
BRITISH COLUMBIA, 2009

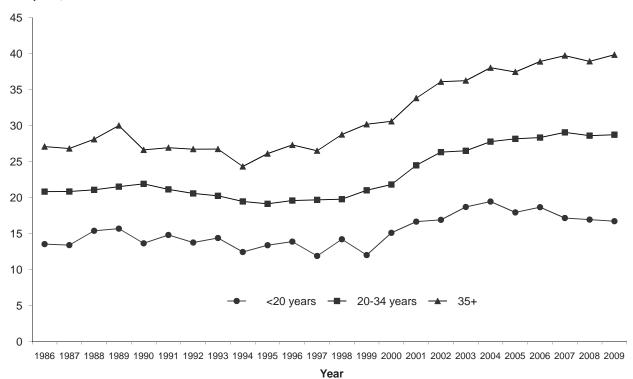
#### **Health Service Delivery Area**



### $\label{eq:Figure 13} \textbf{CESAREAN SECTIONS BY AGE OF MOTHER}$

British Columbia, 1986–2009

#### Rate per 1,000 Live Births





#### **Infant Mortality Trends**

Table 5 shows the number of infants in BC who died before their first birthday in the years 1965-2009. Also shown are the rates at which these deaths occurred per 1,000 live births and similar rates for Canada. The infant death rate in Canada and BC decreased to around one fifth of the 1965 level by 2009. When these deaths are broken into three ranges according to the infant's age when the death occurred, it is clear that well over half of all infant deaths occur in the first six days of life. The Glossary defines the various divisions of infant deaths according to the infant's age.

For most of the time period covered by Table 5, there are comparable data at the Canadian level. Until 1991, Canada's and BC's infant mortality rates were similar. Since then, BC's rate of infant mortality has been lower than the overall Canadian rate.

Figure 14 clearly illustrates the downward trends in both the number and the rate of infant deaths over the past 20 years. Both trends are statistically significant at the 95 percent level.

Figures 15 and 16 show that historically infant mortality rates have been relatively high among teenage mothers, although only a small proportion (7.3 percent) of total infant deaths in 2009 were babies born to these young women. A downward trend in infant mortality rates in all age groups is seen in Figure 15. Each of these trends is statistically significant at the 95 percent level.

More information about infant mortality can be seen in the infant mortality section of death related statistics in this report.

FIGURE 14
INFANT MORTALITY
BRITISH COLUMBIA, 1986–2009

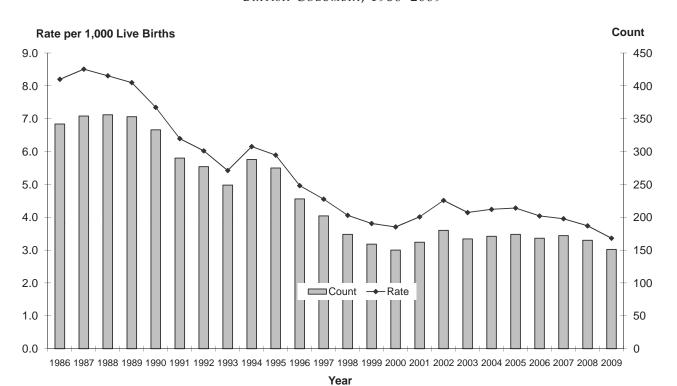


Table 5 **INFANT MORTALITY** British Columbia and Canada, 1965–2009

	British Columbia Age at Death (in Days)						Canada			
	0–6 Days   0–27 Days		28–364 Days			ı Total				
Year	Number	Rate	Number	Rate	Number	Rate	N.S.	Number	Rate	Rate
1965	415	12.33	453	13.45	227	6.74	3	683	20.29	24.0
1966	435	13.38	494	15.20	263	8.09	4	761	23.41	23.1
1967	429	13.04	470	14.29	218	6.63	1	689	20.94	22.0
1968	375	11.13	438	13.00	214	6.35	4	656	19.47	21.0
1969	329	9.30	374	10.57	199	5.62	-	573	16.19	19.0
1970	369	10.01	416	11.29	193	5.24	2	611	16.58	19.0
1971	409	11.74	450	12.91	185	5.31	-	635	18.22	17.5
1972	322	9.32	373	10.79	195	5.64	1	569	16.46	17.0
1973	317	9.23	363	10.57	185	5.39	3	551	16.04	16.0
1974	310	8.74	348	9.82	196	5.53	2	546	15.40	15.0
1975	278	7.66	321	8.85	169	4.66	1	491	13.53	14.3
1976	292	8.15	324	9.04	152	4.24	2	478	13.33	13.5
1977	246	6.70	276	7.52	200	5.45	-	476	12.97	12.4
1978	245	6.58	286	7.68	178	4.78	-	464	12.46	12.0
1979	196	5.10	239	6.22	167	4.35	-	406	10.56	10.9
1980	188	4.69	235	5.86	186	4.64	-	421	10.50	10.4
1981	232	5.57	259	6.21	140	3.36	3	402	9.65	9.6
1982	217	5.05	251	5.85	150	3.49	-	401	9.34	9.1
1983	193	4.48	212	4.92	145	3.37	2	359	8.34	8.5
1984	184	4.18	205	4.65	150	3.41	1	356	8.08	8.1
1985	180	4.19	198	4.61	133	3.09	-	331	7.70	8.0
1986	164	3.93	195	4.68	147	3.52	-	342	8.20	7.9
1987	158	3.80	194	4.66	160	3.85	-	354	8.51	7.3
1988	191	4.46	220	5.13	136	3.17	-	356	8.31	7.2
1989	186	4.27	215	4.93	138	3.17	-	353	8.10	7.3
1990	183	4.04	221	4.87	112	2.47	-	333	7.34	6.8
1991	140	3.09	164	3.62	126	2.78	-	290	6.40	6.4
1992	153	3.33	173	3.76	104	2.26	-	277	6.02	6.1
1993	121	2.64	139	3.03	110	2.40	-	249	5.42	6.3
1994	175	3.74	198	4.23	90	1.92	-	288	6.15	6.3
1995	158	3.39	181	3.88	94	2.01	-	275	5.89	6.1
1996	133	2.89	160	3.48	68	1.48	-	228	4.96	5.6
1997	125	2.82	146	3.29	56 60	1.26	-	202	4.55	5.5
1998 1999	94 87	2.19 2.09	114 108	2.66 2.59	60 51	1.40 1.22	-	174 159	4.06	5.3
2000	84	2.09	105	2.59	45	1.11	-	159	3.81 3.71	5.3 5.3
2000	103	2.55	126	3.12	36	0.89	-	162	4.01	5.2
2001	98	2.46	126	3.12	54	1.35	-	180	4.51	5.2 5.4
2002	104	2.46	120	2.98	54 47	1.17	-	167	4.14	5.4
2003	104	2.68	120	3.03	49	1.17	-	171	4.14	5.3
2004	104	2.56	124	3.05	50	1.23	-	174	4.24	5.4
2005	83	2.00	118	2.84	50	1.20	_	168	4.04	5.0
2007	98	2.25	114	2.62	58	1.33	_	172	3.96	5.1
2008	87	1.97	107	2.42	58	1.31	_	165	3.74	*
2009	90	2.00	103	2.29	48	1.07	_	151	3.36	*
2000	. 00	2.00	100	2.20					0.00	

Note: Rates per 1,000 live births in the specified year. N.S. – Not stated.

Above information includes late registrations and amendments. Canadian rates from Statistics Canada. \*Rates were not available.

Non-residents are excluded.

### $F_{IGURE\ 15}$ INFANT MORTALITY BY AGE OF MOTHER

British Columbia, 1986-2009



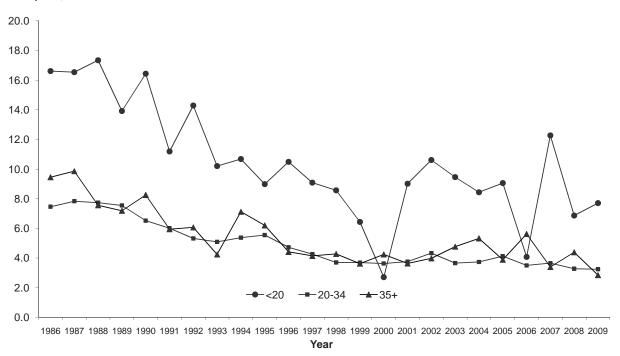
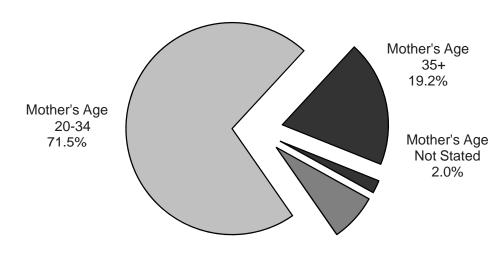


FIGURE 16

PERCENTAGE OF INFANT MORTALITY BY AGE OF MOTHER

BRITISH COLUMBIA, 2009



Mother's Age <20 7.3%

#### **Death Trends**

This section begins with an examination of counts and rates for all causes of death since 1986. This is followed by information on the average age at death, and cause of death trends for malignant neoplasms (cancer), endocrine, nutritional and metabolic diseases, nervous system diseases, cardiovascular diseases, cerebrovascular diseases, and motor vehicle accidents.

Note that all causes are based on the Underlying Cause of Death (UCOD), which is explained in the Glossary. While other causes may have contributed to the death, the underlying cause is defined as the condition or injury that initiated the train of events leading directly to death.

While Figure 17 shows an increase in the absolute number of deaths from 1986 to 2009, the standardized rate has been steadily declining. The provincial Age-Standardized Mortality Rate (ASMR) has been on a downward trend since 1986. The trend is not only statistically significant at the 95 percent level, but reached a historic low in 2009.

The rates are quoted per 10,000 population and have been age-standardized to the 1991 Canada census population distribution. See the Glossary for an explanation of ASMR and the Methodology section for an example of the calculation method.

Figure 18 shows that the average age at death among British Columbians has reached an all time high in 2009 at 76.0 years. The trend indicates an increase over the 1986 to 2009 time period, and this trend is statistically significant at the 95 percent level. It should be noted that average age at death is the arithmetic average of the ages at which people died and is not equivalent to Life Expectancy which is explained in the Glossary.

Figures 19 through 27 refer to selected major causes of death categories. Figures 19, 20, and 21 illustrate trends in cancer death and rates. The death rates are expressed as ASMRs.

Figure 19 shows that in the years 1986 to 2009, while the number of deaths due to all types of cancer (malignant neoplasms, ICD-10 codes C00-C97) steadily climbed, the ASMR has fallen. Thus, while cancer death incidence climbed, the size of the British Columbian population climbed at an even faster pace.

Figure 20 is a similar graph showing incidence and death rates due to lung cancer (malignant neoplasms of trachea and lung, ICD-10 codes C33-C34). The lung cancer death rate in BC has been falling while the number of lung cancer deaths has increased since 1986.

Figure 21 provides further detail by gender for the lung cancer information shown in Figure 20. The falling trend in lung cancer deaths overall is being driven by the strong decline in lung cancer deaths among men, as there is a gradually increasing trend in the rate of lung cancer deaths among women. The declining trend in lung cancer deaths among men and the increasing trend in lung cancer deaths in women are both statistically significant at the 95 percent level. Deaths due to cancer are shown in the context of other causes of death in tables 21, 22, and 23 in the death-related statistics section of this report.

Deaths due to endocrine, nutritional and metabolic diseases in Figure 22 (ICD-10 codes E00-E89) include diseases such as diabetes and cystic fibrosis. A comprehensive list of diseases in this category is provided in Appendix 2 - Detailed Cause of Death by Age and Gender. The death rates and counts for these conditions increased during the period from 2000 to 2005 with a decline between 2006 and 2009.

Diabetes mellitus mortality in 2009, as shown in Figure 23, is 2.9 times that of 1986 in absolute terms, but the ASMR is only 1.3 times greater over the period. The rate in 2009 has dropped down to the levels shown in the year 2000.

Deaths due to diseases of the nervous system are shown in Figure 24 and include causes such as Alzheimer's disease, Parkinson's disease, and multiple sclerosis. A comprehensive list of diseases in this category appears in Appendix 2 under ICD-10 codes G00-G99. The number and rate of these deaths increased between 1986 and 2001. From 2001 to 2005, the number levelled off and the rate declined followed by a slight increase for both the number and rate through to 2008. In 2009, while the number of deaths remains consistent, the rate has dropped to the 2005 level. The increasing overall trend from 1986 to 2009 was statistically significant at the 95 percent level.

Figure 25 shows numbers of cardiovascular disease deaths (ICD-10 codes I00-I51) and death rates per 10,000 standard population from 1986 to 2009. While the incidence numbers rose from 1986 to 1996 and then generally declined, the death rate has been steadily falling since 1986. This declining trend is statistically significant at the 95 percent level. See Tables 22 and 23 to compare cardiovascular disease deaths in the context of other causes of death.

Cerebrovascular diseases shown in Figure 26 include ICD-10 codes I60-I69. While the number of people dying from these diseases increased, the standardized rate gradually decreased between 1986 and 2009. This decreasing ASMR trend is statistically significant at the 95 percent level.

In Figure 27, the incidence and death rates for motor vehicle accidents over the period 1986 to 2009 declined. The downward ASMR trend is statistically significant at the 95 percent level. Although motor vehicle deaths have accounted for about 1.3 percent of all deaths on average since 2000, a substantial share of deaths due to motor vehicle accidents are among young British Columbians, and as such, they remain a concern (see Tables 34 and 35).

Coroners' investigations into "externally caused" deaths can be lengthy, resulting in delays in determining the final causes. For this reason, recent year counts and rates may be underestimated and therefore should be interpreted with caution.

FIGURE 17

DEATHS AND DEATH RATES, ALL CAUSES OF DEATH
BRITISH COLUMBIA, 1986–2009

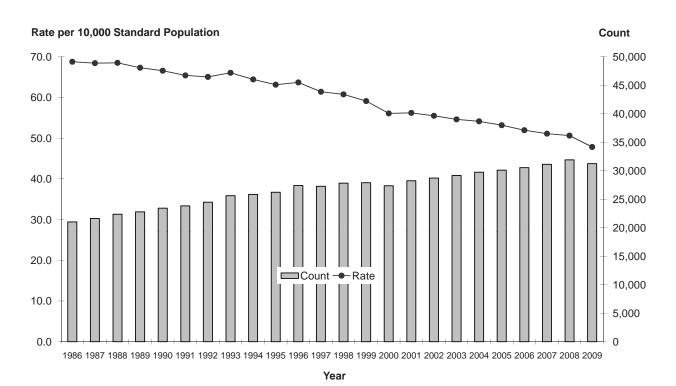
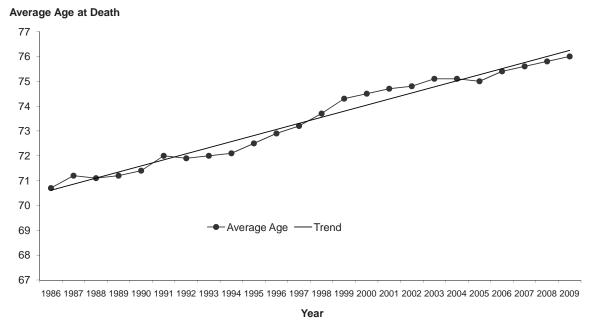


FIGURE 18
AVERAGE AGE AT DEATH

British Columbia, 1986-2009



Based on 5 year age groups to 85+

FIGURE 19

DEATHS AND DEATH RATES, MALIGNANT NEOPLASMS (CANCER)

BRITISH COLUMBIA, 1986–2009

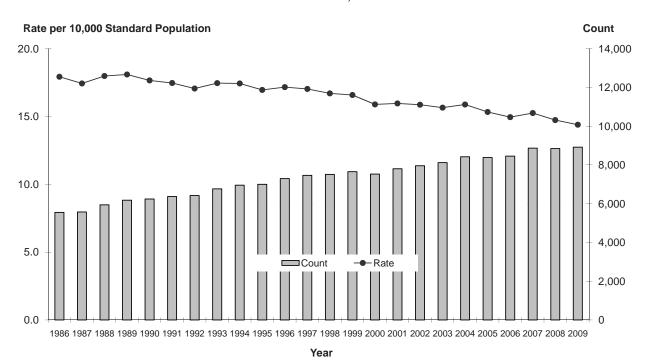


FIGURE 20

#### DEATHS AND DEATH RATES, MALIGNANT NEOPLASM OF LUNG

British Columbia, 1986-2009

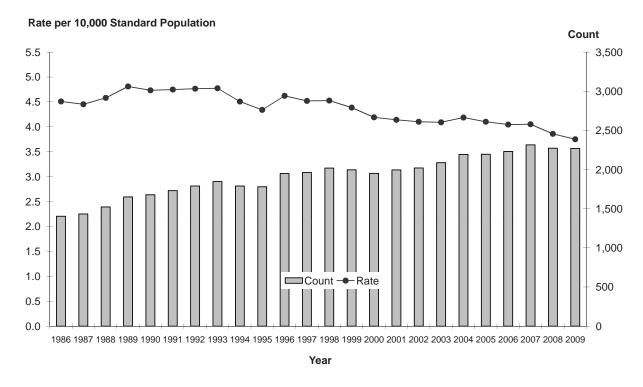
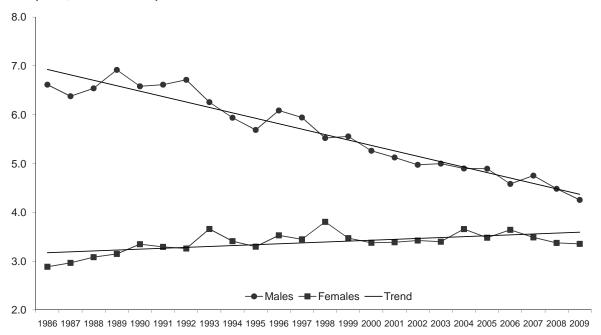


FIGURE 21

DEATH RATES BY GENDER, MALIGNANT NEOPLASM OF LUNG
BRITISH COLUMBIA, 1986-2009

#### Rate per 10,000 Standard Popualtion



#### FIGURE 22

# DEATHS AND DEATH RATES, ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES

British Columbia, 1986-2009

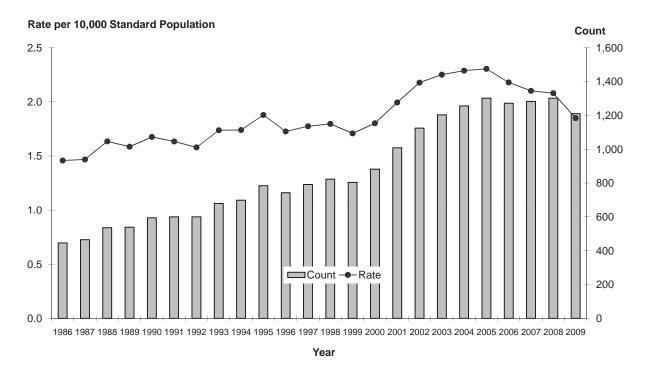
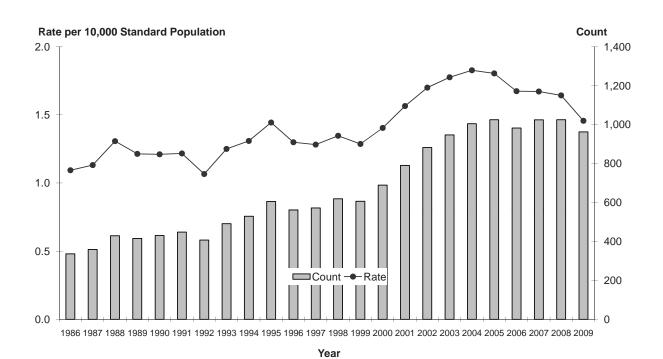


FIGURE 23

DEATHS AND DEATH RATES, DIABETES MELLITUS
BRITISH COLUMBIA, 1986–2009



#### Figure 24

#### DEATHS AND DEATH RATES, NERVOUS SYSTEM DISEASES

British Columbia, 1986-2009

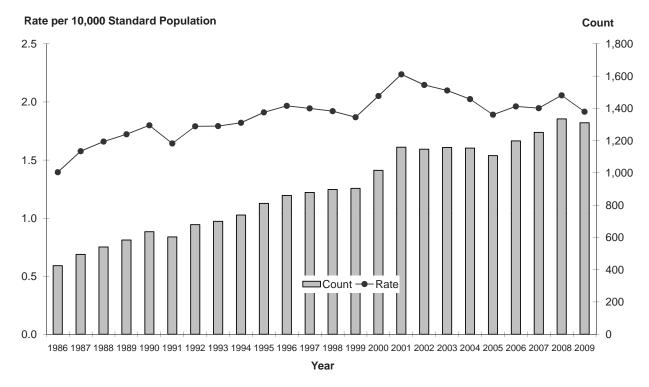
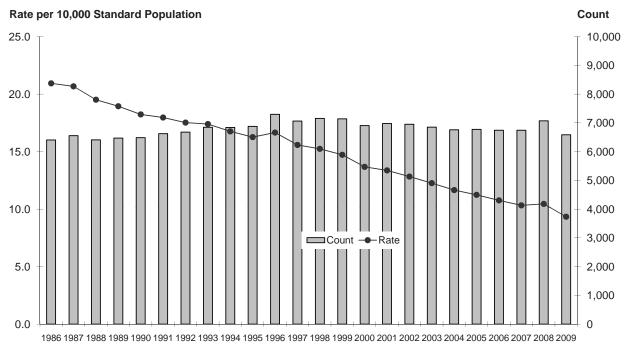


Figure 25

#### DEATHS AND DEATH RATES, CARDIOVASCULAR DISEASE

British Columbia, 1986-2009



#### Figure 26

#### DEATHS AND DEATH RATES, CEREBROVASCULAR DISEASES

British Columbia, 1986-2009

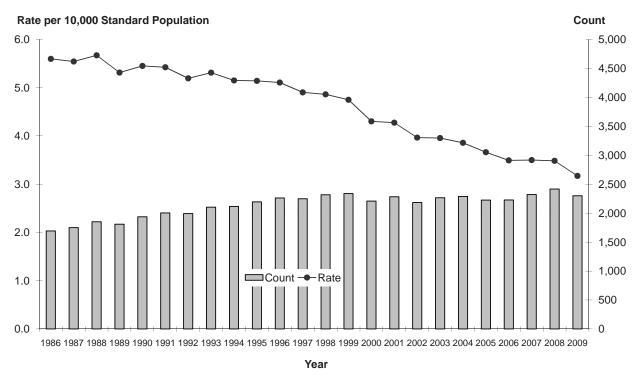
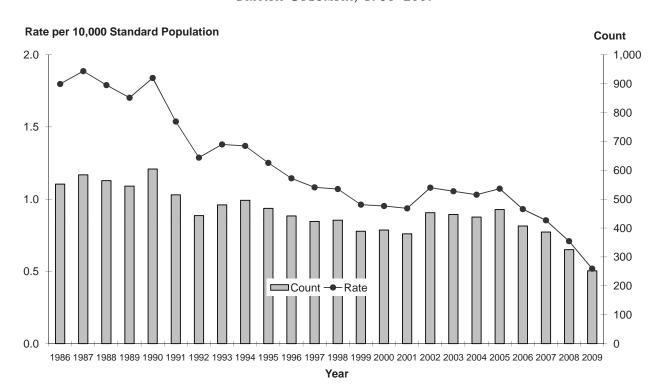


FIGURE 27

DEATHS AND DEATH RATES, MOTOR VEHICLE ACCIDENTS

BRITISH COLUMBIA, 1986–2009



#### **Marriage Trends**

Table 6 and Figure 28 display the average age at which men and women get married. Between 1977 and 2009, the average age for first marriages increased by 5.8 years for men and by 6.5 years for women.

The average age for all marriages increased from 29.3 years to 35.4 years for men and from 26.2 years to 32.8 years for women over the last 32 years.

Over that same time period, the average age of men marrying tended to be 2 to 3 years older than the average age of women marrying. Generally, the age difference at which men and women marry has been greater for all marriages than for first marriages.

TABLE 6 AGE OF FIRST AND ALL MARRIAGES British Columbia, 1977-2009

All Marriages

**Females** 

30.3

30.7

31.2

31.3

31.6

31.8

32.1

32.2

32.5

32.9

33.2

33.2

33.2

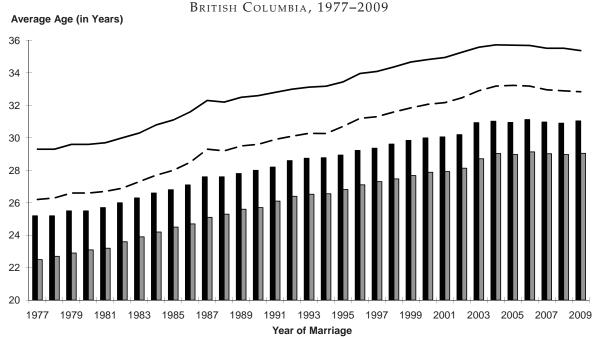
33.0

32.9

32.8

			D	KIIIDII COL	OWIDII	1, 1/1/			
		Average Ag			[			Average Ag	e (in Years)
Year of	First N	Marriage	All Ma	arriages		Year of	First I	Marriage	All Ma
Marriage	Males	Females	Males	Females		Marriage	Males	Females	Males
1977	25.2	22.5	29.3	26.2		1994	28.8	26.6	33.2
1978	25.2	22.7	29.3	26.3		1995	28.9	26.8	33.4
1979	25.5	22.9	29.6	26.6		1996	29.2	27.1	34.0
1980	25.5	23.1	29.6	26.6		1997	29.4	27.3	34.1
1981	25.7	23.2	29.7	26.7		1998	29.6	27.5	34.4
1982	26.0	23.6	30.0	26.9		1999	29.8	27.7	34.7
1983	26.3	23.9	30.3	27.3		2000	30.0	27.9	34.8
1984	26.6	24.2	30.8	27.7		2001	30.1	27.9	35.0
1985	26.8	24.5	31.1	28.0		2002	30.2	28.1	35.3
1986	27.1	24.7	31.6	28.5		2003	30.9	28.7	35.6
1987	27.6	25.1	32.3	29.3		2004	31.0	29.0	35.7
1988	27.6	25.3	32.2	29.2		2005	30.9	29.0	35.7
1989	27.8	25.6	32.5	29.5		2006	31.1	29.1	35.7
1990	28.0	25.7	32.6	29.6		2007	31.0	29.0	35.5
1991	28.2	26.1	32.8	29.9		2008	30.9	29.0	35.5
1992	28.6	26.4	33.0	30.1		2009	31.0	29.0	35.4
1993	28.7	26.5	33.1	30.3					

#### FIGURE 28 AGE OF FIRST AND ALL MARRIAGES



1st Marriage Females

All Marriages Females

■ 1st Marriage Males

- All Marriages Males

# Birth-related Statistics



### Birth Introduction

Statistics based on birth events form a crucial part of the demographic profile of communities, regions, provinces, and countries. They are used to derive important indicators of health status, fertility, infant mortality, and population growth. In turn, those indicators are used for health planning, policy formulation, research, and commerce. The tables in this part of the report present birth statistics categorized by maternal characteristics and other related measures. The tables refer only to live births except Table 7 which also includes stillbirths. The mother's usual residence is used to identify geographic location.

#### Births - General Indicators

Certain birth and parental characteristics that are presented in this section have been shown to be related to the infant's health status or are of general interest. These characteristics include age of mother, age of father, kind of birth (single, twin, or multiple), LHA of usual residence, and mode of delivery.

Table 7 shows the live birth cardinality by mother's age. About 82.2 percent of live births in 2009 were first or second births. Second, third, and subsequent live births tend to have been delivered to progressively older women.

Table 8 shows the number of live births in BC in 2009 by the age of mother and the age of father. It also shows, for each maternal age range, the number of infants born to couples who were not formally married to each other (Out-of-Wedlock).

Over half of the births (50.6 percent) in 2009 were to mothers 30 to 39 years old and 42.0 percent were to mothers in their 20s. Only 3.2 percent were to mothers less than 20 years and 4.1 percent to those 40 or older. For fathers, over half (52.7 percent) were in their 30s, more than a quarter (27.4 percent) were in their 20s, 14.0 percent were in their 40s or older, and 1.0 percent were less than 20 years old. In 4.9 percent of births, the father's age was not indicated.

Less than one percent (0.8 percent) of births (361) were to couples who were both in their teens; births to couples in which at least one person was a teen, made up 3.3 percent (1,501) of births.

While there were only 129 births (0.3 percent) to mothers age 45 years old and over, 4.3 percent (1,927) of all newborns had fathers in that age group.

Table 9 shows the number of births by birth kind (single, twin, triplet+) according to the mother's age group. In 2009, 4.4 percent of live births to mothers 35 years and older were multiple births, whereas 2.9 percent of live births to mothers aged 20 to 34 were multiples and teenagers had the lowest proportion (1.4 percent).

In recent decades there has been a gradual increase in multiple birth rates in BC (see Figure 8). The proportions of multiple live births increased from 1.9 percent of all live births in 1986 to 3.2 percent in 2009.

Table 10 shows the 2009 fertility rates in the LHA where the mother resided and by maternal age groups. The table also shows the number of live births to women 15-19 years of age over the five-year period 2004-2008 and the fertility rate for that age group.

In Figure 29, the Age Specific Fertility Rate (ASFR) statistics for 15-19 year olds for the five-year period 2004-2008 are shown by LHA. The ASFR is described more fully in the Glossary and an example of the calculation method is shown in the Methodology section.

Table 11 shows the number and percentage of births in each maternal age group according to their mode of delivery. Generally, the proportion of births that were spontaneous vertex deliveries (which generally require no medical intervention), and to a lesser extent births assisted by vacuum extraction, are higher for younger mothers. On the other hand, deliveries by cesarean section are proportionally higher for older mothers (see also Figure 13).

Cesarean section deliveries in BC increased from 209.59 per 1,000 live births in 1986 to 308.92 per 1,000 live births in 2009 (see Figure 11).

Table 12 shows live births by the LHA where the mother usually resided and focuses on spontaneous vertex and cesarean section modes of delivery. Spontaneous breech, forceps, and vacuum deliveries are combined into the 'Other' category. The table shows the number and percent of live births that were delivered by cesarean section.

The columns on the right side of the table indicate the total number of live births in 2009 to residents of each LHA and the birth rate per 1,000 population. The LHA with the highest live birth rate was more than five times the rate of the lowest. For more comparisons of cesarean section delivery rates, see also Figures 11, 12, and 13.

In Figure 30, the LHAs are grouped by their ratio of observed number of cesarean live births over expected number of cesarean live births for 2009. The figure shows the LHAs in quintiles from those with the highest cesarean ratios (quintile 5) to those with the lowest such rates (quintile 1).

#### Vital Statistics Information Box

# BIRTHS BY MOTHER'S COUNTRY OF BIRTH BRITISH COLUMBIA, 2009

Area	Province/Country	Births
Canada	Total	29,809
	British Columbia	21,645
	Ontario	2,608
	Alberta	2,573
	Manitoba	807
	Saskatchewan	774
	Quebec	590
	Nova Scotia	296
	Newfoundland & Labrador	184
	New Brunswick	132
	Yukon	86
	Northwest Territories	73
	Prince Edward Island	40
	Nunavut	1
		•
North and Central America	Total United States	<b>1,335</b> 752
	Mexico	289
	Other North and	294
	Central American Countries	
South America		324
Europe	Total	2,171
	England	396
	Other United Kingdom	252
	Germany	199
	Russia	159
	Romania	130
	Poland	125
	Ukraine	92
	Scandinavian Countries	72
	Netherlands	
		68
	Switzerland	50
	Other European Countries	628
Asia and the Middle East	Total	9,889
	India	2,840
	China	2,176
	Philippines	1,442
	Vietnam	537
	Japan	365
	Iran	308
	Taiwan	306
	Hong Kong	281
	Korea	460
	Pakistan	223
	Afghanistan	136
	Other Asian and	815
	Middle Eastern Countries	013
Africa	Total	654
	South Africa	184
	Other African Countries	470
Oceania	Total	414
	Fiji	221
	Australia	128
	New Zealand	56
		50
	Other Oceanic Countries	9
Unknown	Other Oceanic Countries	
Unknown Total		9 <b>312</b> <b>44,908</b>

TABLE 7

BIRTHS BY AGE OF MOTHER AND LIVE BIRTHS BY BIRTH ORDER

BRITISH COLUMBIA, 2009

Age of					Birth Orde	er					Total Live		Total
Mother	1	2	3	4	5	6	7	8	9+	N.S.	Births	Stillbirths	Births
<14	1	-	-	-	-	-	-	-	-	-	1	-	1
14	13	-	-	-	-	-	-	-	-	-	13	2	15
15	54	-	-	-	-	-	-	-	-	-	54	-	54
16	113	5	-	-	-	-	-	-	-	-	118	7	125
17	258	24	1	-	-	-	-	-	-	-	283	6	289
18	339	40	3	1	-	-	-	-	-	-	383	7	390
19	457	104	12	3	-	-	-	-	-	-	576	10	586
20	621	169	13	1	-	-	-	-	-	-	804	6	810
21	689	225	45	9	1	-	-	-	-	-	969	9	978
22	757	388	87	6	1	1	-	-	-	-	1,240	17	1,257
23	821	422	105	28	4	2	-	-	-	-	1,382	9	1,391
24	1,038	546	161	39	10	2	-	-	-	-	1,796	14	1,810
25	1,042	686	185	60	16	5	1	-	-	-	1,995	18	2,013
26	1,176	738	235	59	28	7	2	-	-	-	2,245	16	2,261
27	1,340	813	286	89	17	7	1	-	-	-	2,553	22	2,575
28	1,455	963	329	94	28	8	4	-	-	-	2,881	22	2,903
29	1,470	1,082	322	95	27	8	6	<del>-</del>	-	-	3,010	26	3,036
30	1,453	1,116	392	85	36	5	3	1	-	-	3,091	29	3,120
31	1,372	1,100	373	101	35	18	3	3	-	-	3,005	22	3,027
32	1,194	1,158	424	132	41	17	2	3	-	-	2,971	31	3,002
33	1,039	1,098	436	112	33	15	9	3	1	-	2,746	27	2,773
34	916	1,110	398	133	28	13	6	2	4	-	2,610	24	2,634
35	820	943	383	120	36	14	7	4	3	-	2,330	14	2,344
36	600	899	333	95	30	13	5	2	5	-	1,982	17	1,999
37	507	631	293	83	30	14	8	6	5	-	1,577	19	1,596
38	422	631	241	67	26	5	2	-	3	-	1,397	13	1,410
39 40	295	459 325	175	64	24	9 7	3 7	3 1	1 2	-	1,033 724	13 10	1,046
40	207 154	325 169	133 82	33 42	9	9	1	1	1	-	464	10	734 474
42	77	97	62 47	42 19	9	9 7	3	_	4	-	263	3	266
43	51	59	39	15	4	1	2	1	1	-	173	2	175
43	33	39 44	16	11	3	2	_	-	1	-	110	1	111
45	18	19	19	1	3 1	1	-	-	-	-	59	1	60
45+	26	21	10	4	1	4	1	2	1		70	2	72
TOTAL	20,828	16,084	5,578	1,601	484	194	76	31	32	_	44,908	429	45,337
PERCENT	46.4	35.8	12.4	3.6	1.1	0.4	0.2	0.1	0.1		100.0	723	40,001
LICENT	70.7	00.0	12.7	0.0	•••	0.7	0.2	0.1	0.1		100.0		

Note: Birth order denotes the number of live births. Total includes unknown gender. Non-residents are excluded. N.S. – Not stated.

Table 8

#### TOTAL LIVE BIRTHS BY AGE OF FATHER, AGE OF MOTHER AND OUT-OF-WEDLOCK

British Columbia, 2009

				Αç	ge of Mother	(in Years)					
Age of Father	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.	Total	Percent
< 15	2	-	1	-	-	-	-	-	-	3	-
15-19	9	350	62	6	3	1	-	-	-	431	1.0
20-24	-	556	1,926	522	80	18	3	1	-	3,106	6.9
25-29	-	151	2,438	5,157	1,252	194	23	2	-	9,217	20.5
30-34	-	38	799	4,440	6,792	1,243	102	3	-	13,417	29.9
35-39	-	15	238	1,474	4,265	3,891	350	11	-	10,244	22.8
40-44	-	4	79	371	1,204	1,946	741	28	-	4,373	9.7
45+	-	1	47	177	443	744	445	70	-	1,927	4.3
N.S.	3	299	601	537	384	282	70	14	-	2,190	4.9
TOTAL	14	1,414	6,191	12,684	14,423	8,319	1,734	129	-	44,908	
Percent	0.0	3.1	13.8	28.2	32.1	18.5	3.9	0.3			100.0
Out-of-Wedlock	14	1,229	3,478	3,482	2,509	1,443	352	36	-	12,543	

Note: Total percentage may not add up to 100 due to rounding.

Out-of-Wedlock - Indicates mother and father of child were not legally married to each other and excludes

1,627 cases where marital status was not stated. Non-residents are excluded. N.S. – Not stated.

Table 9 LIVE BIRTHS BY AGE OF MOTHER AND KIND OF BIRTH

British Columbia, 2009

Age of		Kind of I	Birth		
Mother	Single	Twin	Triplets+	N.S.	Total
< 15	14	-	-	-	14
15-19	1,394	20	-	-	1,414
20-24	6,077	114	-	-	6,191
25-29	12,352	323	9	-	12,684
30-34	13,914	503	6	-	14,423
35-39	8,008	305	6	-	8,319
40-44	1,624	110	-	-	1,734
45 +	98	31	-	-	129
N.S.	-	-	-	-	-
TOTAL	43,481	1,406	21	-	44,908

Note:

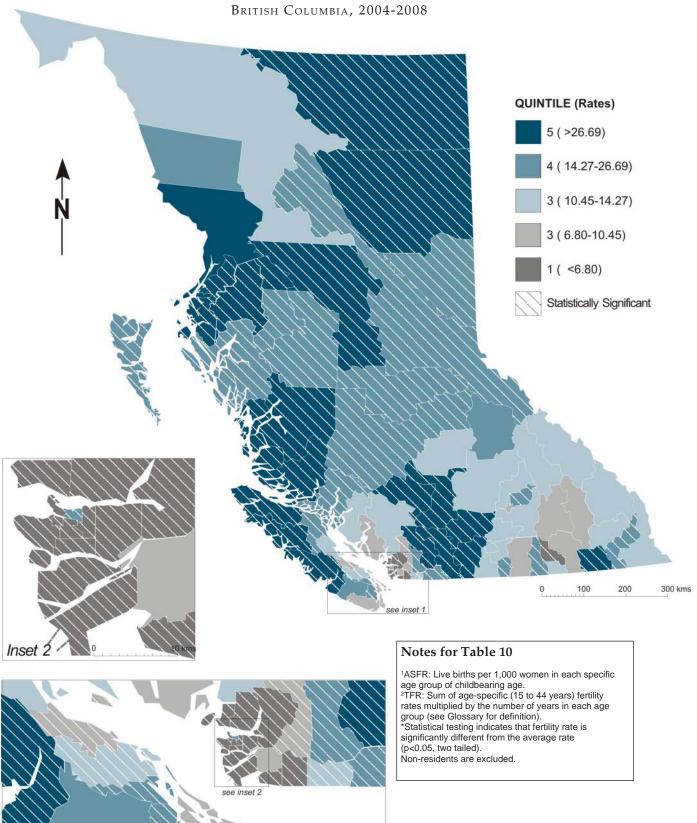
For the multiple births that include stillbirths, only live births are shown. Triplets+: included in this column are the live births from multiple births of three or more. Non-residents are excluded. N.S.- Not stated.

002         Cranbrook         83         19.50         *         32.18         65.90         141.62         67.34         27.33         6.47         1,7           004         Windermere         17         11.63         11.40         63.44         102.94         90.09         29.15         2.81         1.4           005         Creston         57         29.81         *         32.26         10.80         163.77         9.43         2.21           007         Nelson         33         8.28         7.37         40.95         10.00         11.23         53.42         9.41         16.6           007         Nelson         33         8.28         7.37         40.95         10.00         11.23         53.42         9.91         4.91         1.66         00.00         11.23         53.42         9.91         4.91         1.78         9.91         11.11         11.71         11.78         9.91         11.11         11.71         11.11         11.11         11.11         11.11         11.11         11.11         11.11         11.11         11.11         11.11         11.11         11.11         11.11         11.11         11.11         11.11         11.11         11.11 <th>te (p) 4.94 * 4.16 * 4.16 * 8.44 9.17 7.20 * 9.51 1.91 8.69 * 5.47 9.68 7.80 2.37 * 5.94 4.77 * 0.38 0.11 * 0.27 5.54 1.29 1.67 *</th>	te (p) 4.94 * 4.16 * 4.16 * 8.44 9.17 7.20 * 9.51 1.91 8.69 * 5.47 9.68 7.80 2.37 * 5.94 4.77 * 0.38 0.11 * 0.27 5.54 1.29 1.67 *
002         Cranbrook         83         19.50         *         32.18         65.90         141.62         67.34         27.33         6.47         1,7           004         Windermere         17         11.63         11.40         63.44         102.94         90.09         29.15         2.81         1.4           005         Creston         57         29.81         *         32.26         10.80         163.77         9.43         2.21           007         Nelson         33         8.28         7.37         40.95         10.00         11.23         53.42         9.41         16.6           007         Nelson         33         8.28         7.37         40.98         10.91         17.82         2.00         1.11           007         Nelson         3         38.81         15.4         2.93         53.59         8.85         91.43         17.82         2.00         1.11           101         Arrow Lakes         4         7.37         20.98         8.81         91.43         17.82         2.00         1.11         14.17         17.22         10.11         17.11         13.82         13.50         38.65         14.83         16.93         1	4.16 * 8.44   9.17   7.20 * 9.51   1.91   8.69 * 5.47   9.68   7.80   2.37 * 5.94   2.49   4.77 * 0.38   0.11 * 0.27   5.54   1.29   1.67 *
003         Kimberley         13         10.97         15.33         61.67         139.04         85.37         66.93         3.36         1.8           004         Windermere         17         11.63         11.40         63.44         10.29.4         90.09         29.15         2.81         1.44           005         Creston         57         29.81         32.26         10.85         11.42         86         4.55         38.76         - 1.22           006         Koctonay Lake         4         7.49         - 2.17.41         142.86         64.55         38.76         - 1.21           009         Castlegar         5         2.51         *         2.29         35.38         84.85         19.41         11.62         2.00         11.61           009         Castlegar         5         2.51         *         2.29         35.38         84.85         19.43         11.82         2.00         11.61           010         Arrival         1.36         4.30         1.9         4.16         30.00         95.51         14.81         1.67         1.16         01.2         01.7         01.7         01.1         0.00         00.51         14.81         1.67	8.44 9.17 7.20 * 9.51 1.91 8.69 * 5.47 9.68 7.80 2.37 * 5.94 2.49 0.38 0.11 * 0.27 5.54 1.91
004         Windermere         17         11.63         11.40         63.44         102.94         90.09         29.15         2.81         1.42           005         Creston         57         29.81         *         32.26         1066         Kootenay Lake         4         7.49         -         21.74         142.86         54.55         38.76         -         1.2           007         Nelson         33         8.28         7.37         40.95         100.00         113.23         53.42         9.41         1.6           009         Castlegar         5         2.51         *         2.29         35.35         84.85         91.43         17.82         2.00         1.1           010         Arrow Lakes         4         7.37         20.98         48.19         103.90         50.51         14.81         14.71         12.20           011         Trail         38         11.54         9.17         45.45         12.98         38.65         22.83         6.19         14.61         14.71         12.26         30.01         14.81         14.71         12.26         30.01         16.61         16.61         16.61         10.00         30.01         16.61	9.17 7.20 * 9.51 1.91 8.69 * 5.47 7.80 2.37 * 5.94 2.49 0.38 0.11 * 0.27 5.54 1.29 1.67 *
005         Creston         57         29.81         *         32.26         108.50         125.48         108.00         63.77         94.32         2.22           007         Nelson         33         8.28         7.37         40.95         100.00         113.23         53.42         9.41         1,66           009         Castlegar         5         2.51         *         2.29         35.35         84.85         91.43         17.82         2.00         1,11           010         Arrow Lakes         4         7.37         20.98         48.19         103.99         50.51         14.81         14.71         1.22           011         Trail         38         11.54         9.17         45.45         129.63         98.65         42.83         6.19         1.66           012         Grand Forks         22         18.84         9.17         45.45         129.63         98.65         42.83         6.19         1.66           014         Southern Okanagan         39         16.67         13.62         43.08         18.24         82.09         26.09         1.3         1.7           015         Penticton         74         12.41         10.26 <td>7.20 * 9.51</td>	7.20 * 9.51
007         Nelson         33         8.28         7.37         40.95         100.00         11.23         53.42         9.41         1.66           009         Castlegar         5         2.51         *         2.98         48.19         10.30         50.51         14.81         14.71         1.22           011         Trail         38         11.54         9.17         45.45         129.63         86.65         42.83         6.19         1.2           013         Kettle Valley         4         10.03         -         35.09         72.63         38.63         31.51         1.2           013         Kettle Valley         4         10.03         -         35.09         79.37         49.83         10.64         -         8.0           014         Southern Okanagan         39         16.67         13.62         43.08         182.48         82.09         26.09         18.3         1.7           015         Penticton         74         12.41         10.26         50.57         115.87         90.47         37.37         7.96         12.23         11.42         10.7         72.2         32.61         10.00         47.17         50.85         13.13	1.91 8.69 * 5.47 9.68 7.80 2.37 * 5.94 2.49 4.77 * 0.38 0.11 * 0.27 5.54 1.29 1.67 *
009 Castlegar         5         2.51         *         2.29         35.35         84.85         91.43         17.82         2.00         1,11           010 Arrow Lakes         4         7.37         20.98         84.19         103.90         50.51         11.481         1,471         1,22           011 Trail         38         11.54         9.17         45.45         129.63         98.65         42.83         6.19         1,68           013 Kettle Valley         4         10.03         -35.09         79.37         49.38         10.64         -88           014 Southern Okanagan         39         16.67         13.62         43.08         182.48         82.09         26.09         1.83         11.51           015 Fenticton         74         12.41         10.26         50.57         115.87         90.47         37.37         7.96         1.56           016 Keremeos         9         13.91         13.61         78.95         206.35         131.31         26.32         12.42         23.01           017 Princeton         18         27.69         7.52         32.61         100.00         9.24         26.09         65.21.3           018 Golden         12	8.69 * 5.47 9.68 7.80 2.37 * 5.94 2.49 4.77 * 0.38 0.11 * 0.27 5.54 1.29 1.67 *
Olio	5.47 9.68 7.80 2.37 * 5.94 2.49 4.77 * 0.38 0.11 * 0.27 5.54 1.29 1.67 *
11   Trail   38	9.68 7.80 2.37 * 5.94 2.49 4.77 * 0.38 0.11 * 0.27 5.54 1.29 1.67 *
013         Kettle Valley         4         10.03         - 35.09         79.37         49.38         10.64         - 88           014         Southern Okanagan         39         16.67         * 13.62         43.08         182.48         82.09         26.09         1.83         1.7           016         Keremeos         9         13.91         13.61         78.95         206.35         131.31         26.32         12.42         2.3           017         Princeton         18         27.69         * 7.52         32.61         100.00         95.24         26.09         6.62         1.3           018         Golden         12         11.19         - 47.17         50.85         64.00         47.81         8.20         1.0           019         Revelstoke         19         13.73         125.5         53.64         139.01         110.66         50.19         - 1.85           020         Salmon Arm         65         12.13         13.19         53.67         134.75         98.59         30.57         6.33         1.6           021         Armstrong - Spallumcheen         16         9.83         8.62         75.19         12.64         87.16         30.55	2.37 * 5.94 2.49 4.77 * 0.38 0.11 * 0.27 5.54 1.29 1.67 *
Old   Southern Okanagan   39	5.94 2.49 4.77 * 0.38 0.11 * 0.27 5.54 1.29 1.67 *
015   Penticton	2.49 4.77 * 0.38 0.11 * 0.27 5.54 1.29 1.67 *
016         Keremeos         9         13.91         13.61         78.95         206.35         131.31         26.32         12.42         2.3           017         Princeton         18         27.69         *         7.52         32.61         100.00         95.24         26.09         6.62         1,3           018         Golden         12         11.19         -         47.17         50.85         64.00         47.81         8.20         1,0           019         Revelstoke         19         13.73         12.55         53.64         139.01         110.66         50.19         -         1,8           020         Salmon Arm         65         12.13         13.19         53.67         134.75         98.59         30.57         6.33         1,6           022         Vernon         126         12.26         17.27         69.96         157.67         112.46         36.53         4.44         1,9           023         Central Okanagan         275         10.31         10.75         48.77         98.59         30.65         4.44         1,9           024         Kamloops         210         11.60         12.25         55.60         104.01 <td>4.77 * 0.38 0.11 * 0.27 5.54 1.29 1.67 *</td>	4.77 * 0.38 0.11 * 0.27 5.54 1.29 1.67 *
018 Golden 12 11.19 - 47.17 50.85 64.00 47.81 8.20 1,0 019 Revelstoke 19 13.73 12.55 53.64 139.01 110.66 50.19 - 1,8 020 Salmon Arm 65 12.13 13.19 53.67 134.75 98.59 30.57 6.33 1,8 021 Armstrong - Spallumcheen 16 9.83 8.62 75.19 122.64 87.16 30.65 - 1,6 022 Vernon 126 12.26 17.27 69.96 157.67 112.46 36.53 4.44 1,9 022 Central Okanagan 275 10.31 10.75 48.77 94.85 101.01 42.79 64.9 1,5 024 Kamloops 210 11.60 12.25 55.60 104.01 104.76 43.13 6.37 1,6 025 100 Mile House 30 12.59 14.61 57.64 114.70 105.26 39.27 6.59 1,6 026 North Thompson 15 19.89 12.35 86.96 169.81 100.00 22.22 7.04 1,9 027 Cariboo - Chilcotin 119 24.81 * 34.67 82.07 103.36 85.68 31.13 4.19 1,7 028 Quesnel 112 26.67 * 20.98 78.46 180.39 88.01 28.82 5.92 1,9 029 Lillooet 22 30.05 * 27.78 88.89 102.80 49.59 27.59 - 1,4 030 South Cariboo 36 30.64 * 18.80 91.37 120.48 102.41 12.50 - 1,7 031 Merritt 53 26.71 * 37.47 100.84 116.28 98.55 33.90 2.48 1,9 032 Chillwack 275 20.24 * 22.65 90.80 150.79 99.81 42.89 42.89 43.90 43.50 110.47 14.71 - 1,7 035 Langley 145 64.8 * 8.04 43.56 114.64 119.28 52.71 91.2 1,7 035 Langley 145 64.8 * 8.04 43.56 114.64 119.28 52.71 91.2 1,7 035 Langley 145 64.8 * 8.04 43.56 114.64 119.28 52.71 91.2 1,7 035 Langley 145 64.8 * 8.04 43.56 114.64 119.28 52.71 91.2 1,7 035 Langley 145 64.8 * 8.04 43.56 114.64 119.28 52.71 91.2 1,7 035 Langley 145 64.8 * 8.04 43.56 114.64 119.28 52.71 91.2 1,7 035 Langley 145 64.8 * 8.04 43.56 114.67 119.8 52.71 91.2 1,7 035 Langley 145 64.8 * 8.04 43.56 114.67 119.8 52.71 91.2 1,7 035 Langley 145 64.8 * 8.04 43.56 114.67 119.8 56.71 91.3 13.7 042 Maple Ridge 110 7.13 * 6.55 50.76 116.03 107.42 50.00 9.59 1,7 044 North Vancouver 49 2.20 * 1.14 11.53 5.33 31.00.5 83.88 13.07 1,3 045 West Vancouver-Bowen Is. 28 3.00 * 1.53 5.90 41.71 110.68 66.72 18.95 047 Powell River 40 13.43 8.21 69.03 132.95 105.26 19.84 6.06 1,7 044 North Vancouver 49 2.20 * 1.14 11.53 5.90 41.71 110.68 66.72 18.95 04.7 044 North Vancouver 49 2.20 * 1.14 11.53 5.90 41.71 110.68 66.72 18.95 04.7 044 North Vancouver 49 2.20 * 1.14 11	0.11 * 0.27 5.54 1.29 1.67 *
019         Revelstoke         19         13.73         12.55         53.64         139.01         110.66         50.19         - 1,83           020         Salmon Arm         65         12.13         13.19         53.67         134.75         98.59         30.57         6.33         1,83           021         Armstrong - Spallumcheen         16         9.83         8.62         75.19         122.64         87.16         30.65         - 1,60           022         Vernon         126         12.26         17.27         69.96         157.67         112.46         36.53         4.44         1,99           023         Central Okanagan         275         10.31         10.75         48.77         94.85         101.01         42.79         6.49         1,56           025         100 Mile House         30         12.59         14.61         57.64         114.70         105.26         39.27         6.59         1,68           026         North Thompson         15         19.89         12.35         86.96         168.11         100.00         22.22         7.04         1,9           027         Cariboo - Chilcotin         119         24.81         34.67         82.07	0.27 5.54 1.29 1.67 *
020         Salmon Arm         65         12.13         13.19         53.67         134.75         98.59         30.57         6.33         1,60           021         Armstrong - Spallumcheen         16         9.83         8.62         75.19         122.64         87.16         30.65         - 1,60           022         Vernon         126         12.26         17.27         69.96         157.67         112.46         30.65         - 1,60           024         Kamloops         210         11.60         12.25         55.60         104.01         104.76         43.13         6.37         1,63           024         Kamloops         210         11.60         12.25         55.60         104.01         104.76         43.13         6.37         1,63           026         North Thompson         15         19.89         12.35         86.96         169.81         100.00         22.22         7.04         1,99           027         Cariboo - Chilcotin         119         24.81         *         34.67         82.07         103.36         85.68         31.13         4.19         1,70           028         Quesnel         112         26.67         *         20.98	5.54 1.29 1.67 *
021         Armstrong - Spallumcheen         16         9.83         8.62         75.19         122.64         87.16         30.65         - 1,66           022         Vermon         126         12.26         17.27         69.96         157.67         112.46         36.53         4.44         1,93           024         Kamloops         210         11.60         12.25         55.60         104.01         104.76         43.13         6.37         1,63           025         100 Mile House         30         12.59         14.61         57.64         114.70         105.26         39.27         6.59         1,63           026         North Thompson         15         19.89         12.35         86.96         169.81         100.00         22.22         7.04         1,99           027         Cariboo - Chilcotin         119         24.81         *         34.67         82.07         103.36         85.68         31.13         4.19         1,76           028         Quesnel         112         26.67         *         20.98         78.46         160.39         88.01         28.82         5.92         1,97           029         Lillooet         22         30.05	1.29 1.67 *
023         Central Okanagan         275         10.31         10.75         48.77         94.85         101.01         42.79         6.49         1,57           024         Kamloops         210         11.60         12.25         55.60         104.01         104.76         43.13         6.37         1,65           025         100 Mile House         30         12.59         14.61         57.64         114.70         105.26         39.27         6.59         1,68           026         North Thompson         15         19.89         12.35         86.96         169.81         100.00         22.22         7.04         1,99           027         Cariboo - Chilcotin         119         24.81         *         34.67         82.07         103.36         85.68         31.13         4.19         1,76           028         Quesnel         112         26.67         *         20.98         78.46         160.39         88.01         28.25         5.92         1,97           030         South Cariboo         36         30.64         *         18.80         91.37         120.48         102.41         12.50         -         1,77           031         Merritt         <	
024         Kamloops         210         11.60         12.25         55.60         104.01         104.76         43.13         6.37         1,63           025         100 Mile House         30         12.59         14.61         57.64         114.70         105.26         39.27         6.59         1,65           026         North Thompson         15         19.89         12.35         86.96         169.81         100.00         22.22         7.04         1,98           027         Cariboo - Chilcotin         119         24.81         *         34.67         82.07         103.36         85.68         31.13         4.19         1,77           028         Quesnel         112         26.67         *         20.98         78.46         160.39         88.01         28.82         5.92         1,99           029         Lillooet         22         30.05         *         27.78         88.89         102.80         49.59         27.59         -         1,44           030         South Cariboo         36         30.64         *         18.80         91.37         120.48         102.41         12.50         -         1,73           031         Merritt	
025         100 Mile House         30         12.59         14.61         57.64         114.70         105.26         39.27         6.59         1,63           026         North Thompson         15         19.89         12.35         86.96         169.81         100.00         22.22         7.04         1,99           027         Cariboo - Chilcotin         119         24.81         *         34.67         82.07         103.36         85.68         31.13         4.19         1,77           028         Quesnel         112         26.67         *         20.98         78.46         160.39         88.01         28.22         5.92         1,99           029         Lillooet         22         30.05         *         27.78         88.89         102.80         49.59         27.59         -         1,46           030         South Cariboo         36         30.64         *         18.80         91.37         120.48         102.41         12.50         -         1,77           031         Merritt         53         26.71         *         37.47         100.84         110.24         102.41         12.50         -         1,77           031	
027 Cariboo - Chilcotin         119         24.81         *         34.67         82.07         103.36         85.68         31.13         4.19         1,70           028 Quesnel         112         26.67         *         20.98         78.46         160.39         88.01         28.82         5.92         1,91           029 Lillooet         22         30.05         *         27.78         88.89         102.80         49.59         27.59         -         1,48           030 South Cariboo         36         30.64         *         18.80         91.37         120.48         102.41         12.50         -         1,75           031 Merritt         53         26.71         *         37.47         10.84         116.28         95.85         33.90         2.48         1,93           032 Hope         40         31.23         *         41.49         64.78         120.00         110.47         14.71         -         1,75           033 Chilliwack         275         20.24         *         22.65         90.80         150.79         99.81         42.89         8.97         2,00           034 Abbotsford         278         12.17         *         10.70	0.38
028 Quesnel         112         26.67         *         20.98         78.46         160.39         88.01         28.82         5.92         1,9           029 Lilloet         22         30.05         *         27.78         88.89         102.80         49.59         27.59         -         1,46           030 South Cariboo         36         30.64         *         18.80         91.37         120.48         102.41         12.50         -         1,77           031 Merritt         53         26.71         *         37.47         100.84         116.28         95.85         33.90         2.48         1,93           032 Hope         40         31.23         *         41.49         64.78         120.00         110.47         14.71         -         1,77           033 Chilliwack         275         20.24         *         22.65         90.80         150.79         99.81         42.89         8.97         2,07           034 Abbotsford         278         12.17         *         10.70         67.83         128.71         99.08         41.66         6.15         1,77           035 Langley         145         6.48         *         8.04         43.56	1.89
029         Lilloet         22         30.05         *         27.78         88.89         102.80         49.59         27.59         -         1,46           030         South Cariboo         36         30.64         *         18.80         91.37         120.48         102.41         12.50         -         1,77           031         Merritt         53         26.71         *         37.47         100.84         116.28         95.85         33.90         2.48         1,93           032         Hope         40         31.23         *         41.49         64.78         120.00         110.47         14.71         -         1,77           033         Chilliwack         275         20.24         *         22.65         90.80         150.79         99.81         42.89         8.97         2,07           034         Abbotsford         278         12.17         *         10.70         67.83         128.71         99.81         42.89         8.97         2,07           035         Langley         145         6.48         *         8.04         43.56         114.64         119.28         52.71         9.12         1,73           035	
030         South Cariboo         36         30.64         *         18.80         91.37         120.48         102.41         12.50         -         1,72           031         Merritt         53         26.71         *         37.47         100.84         116.28         95.85         33.90         2.48         1,93           032         Hope         40         31.23         *         41.49         64.78         120.00         110.47         14.71         -         1,73           033         Chilliwack         275         20.24         *         22.65         90.80         150.79         99.81         42.89         8.97         2,07           034         Abbotsford         278         12.17         *         10.70         67.83         128.71         99.08         41.66         6.15         1,77           035         Langley         145         6.48         *         8.04         43.56         114.64         119.28         52.71         9.12         1,73           037         Delta         58         3.18         *         3.39         24.53         81.35         12.10         60.76         12.08         1,5           038	3.22
031 Hope	7.80
032 Chilliwack 275 20.24 * 22.65 90.80 150.79 99.81 42.89 8.97 2.01 034 Abbotsford 278 12.17 * 10.70 67.83 128.71 99.08 41.66 6.15 1,77 035 Langley 145 6.48 * 8.04 43.56 114.64 119.28 52.71 9.12 1,73 037 Delta 58 3.18 * 3.39 24.53 81.35 121.10 60.76 12.08 1,5 038 Richmond 66 2.17 * 1.23 12.58 59.94 115.25 61.26 13.99 1,33 040 New Westminster 67 9.04 4.10 29.77 63.95 102.03 65.49 11.93 1,33 041 18.84 19.84 19.85 19.09 53.44 110.87 67.81 13.76 1,3 042 Maple Ridge 110 7.13 * 6.55 50.76 116.03 107.42 50.00 9.59 1,70 043 Coquitlam 138 3.75 * 4.64 21.52 67.91 130.28 76.45 10.77 1,55 044 North Vancouver 49 2.20 * 1.14 11.53 53.33 110.05 83.68 13.07 1,3 045 West Vancouver-Bowen Is. 28 3.00 * 150.79 19.09 13.29 105.26 19.84 6.06 1,70 1,70 1,70 1,70 1,70 1,70 1,70 1,70	4.05 *
034         Abbotsford         278         12.17         *         10.70         67.83         128.71         99.08         41.66         6.15         1,77           035         Langley         145         6.48         *         8.04         43.56         114.64         119.28         52.71         9.12         1,73           037         Delta         58         3.18         *         3.39         24.53         81.35         121.10         60.76         12.08         1,57           038         Richmond         66         2.17         *         1.23         12.58         59.94         115.25         61.26         13.99         1,32           040         New Westminster         67         9.04         4.10         29.77         63.95         102.03         65.49         11.93         1,33           041         Burnaby         134         4.34         *         3.95         19.09         53.44         110.87         67.81         13.76         1,33           042         Maple Ridge         110         7.13         *         6.55         50.76         116.03         107.42         50.00         9.59         1,70           043	
037 Delta 58 3.18 * 3.39 24.53 81.35 121.10 60.76 12.08 1,57 038 Richmond 66 2.17 * 1.23 12.58 59.94 115.25 61.26 13.99 1,32 040 New Westminster 67 9.04 4.10 29.77 63.95 102.03 65.49 11.93 1,33 041 Burnaby 134 4.34 * 3.95 19.09 53.44 110.87 67.81 13.76 1,34 042 Maple Ridge 110 7.13 * 6.55 50.76 116.03 107.42 50.00 9.59 1,77 043 Coquitlam 138 3.75 * 4.64 21.52 67.91 130.28 76.45 10.77 1,55 044 North Vancouver 49 2.20 * 1.14 11.53 53.33 110.05 83.68 13.07 1,34 045 West Vancouver-Bowen Is. 28 3.00 * 1.53 5.90 41.71 110.68 66.72 18.95 1,22 047 Powell River 40 13.43 8.21 69.03 132.95 105.26 19.84 6.06 1,76 0.00 1,76 0.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	0.64 *
038 Richmond 66 2.17 * 1.23 12.58 59.94 115.25 61.26 13.99 1,33   040 New Westminster 67 9.04 4.10 29.77 63.95 102.03 65.49 11.93 1,33   041 Burnaby 134 4.34 * 3.95 19.09 53.44 110.87 67.81 13.76 1,34   042 Maple Ridge 110 7.13 * 6.55 50.76 116.03 107.42 50.00 9.59 1,70   043 Coquitlam 138 3.75 * 4.64 21.52 67.91 130.28 76.45 10.77 1,55   044 North Vancouver 49 2.20 * 1.14 11.53 53.33 110.05 83.68 13.07 1,36   045 West Vancouver-Bowen Is. 28 3.00 * 1.53 5.90 41.71 110.68 66.72 18.95 1,22   046 Sunshine Coast 42 9.42 10.16 66.25 173.23 92.53 44.81 7.90 1,99   047 Powell River 40 13.43 8.21 69.03 132.95 105.26 19.84 6.06 1,70	6.77 *
040     New Westminster     67     9.04     4.10     29.77     63.95     102.03     65.49     11.93     1,38       041     Burnaby     134     4.34     *     3.95     19.09     53.44     110.87     67.81     13.76     1,34       042     Maple Ridge     110     7.13     *     6.55     50.76     116.03     107.42     50.00     9.59     1,70       043     Coquitlam     138     3.75     *     4.64     21.52     67.91     130.28     76.45     10.77     1,58       044     North Vancouver     49     2.20     *     1.14     11.53     53.33     110.05     83.68     13.07     1,36       045     West Vancouver-Bowen Is.     28     3.00     *     1.53     5.90     41.71     110.68     66.72     18.95     1,20       046     Sunshine Coast     42     9.42     10.16     66.25     173.23     92.53     44.81     7.90     1,90       047     Powell River     40     13.43     8.21     69.03     132.95     105.26     19.84     6.06     1,70	
042     Maple Ridge     110     7.13     *     6.55     50.76     116.03     107.42     50.00     9.59     1,70       043     Coquitlam     138     3.75     *     4.64     21.52     67.91     130.28     76.45     10.77     1,55       044     North Vancouver     49     2.20     *     1.14     11.53     53.33     110.05     83.68     13.07     1,36       045     West Vancouver-Bowen Is.     28     3.00     *     1.53     5.90     41.71     110.68     66.72     18.95     1,22       046     Sunshine Coast     42     9.42     10.16     66.25     173.23     92.53     44.81     7.90     1,98       047     Powell River     40     13.43     8.21     69.03     132.95     105.26     19.84     6.06     1,70	6.34 *
042     Maple Ridge     110     7.13     0.53     50.70     110.742     30.00     9.39     1,70       043     Coquitlam     138     3.75     *     4.64     21.52     67.91     130.28     76.45     10.77     1,58       044     North Vancouver     49     2.20     *     1.14     11.53     53.33     110.05     83.68     13.07     1,38       045     West Vancouver-Bowen Is.     28     3.00     *     1.53     5.90     41.71     110.68     66.72     18.95     1,22       046     Sunshine Coast     42     9.42     10.16     66.25     173.23     92.53     44.81     7.90     1,93       047     Powell River     40     13.43     8.21     69.03     132.95     105.26     19.84     6.06     1,70	4.68 *
044     North Vancouver     49     2.20 *     1.14 11.53 53.33 110.05 83.68 13.07 1,36       045     West Vancouver-Bowen Is.     28     3.00 *     1.53 5.90 41.71 110.68 66.72 18.95 1,22       046     Sunshine Coast 047     42     9.42 10.16 66.25 173.23 92.53 44.81 7.90 1,93       047     Powell River 40     13.43 8.21 69.03 132.95 105.26 19.84 6.06 1,70	
045     West Vancouver-Bowen Is.     28     3.00 *     1.53 5.90 41.71 110.68 66.72 18.95 1,22       046     Sunshine Coast 047     42     9.42 10.16 66.25 173.23 92.53 44.81 7.90 1,93       047     Powell River 40     13.43 8.21 69.03 132.95 105.26 19.84 6.06 1,70	4.00 *
047 Powell River 40 13.43 8.21 69.03 132.95 105.26 19.84 6.06 1,70	7.44 *
	4.35 *
048 Howe Sound 57 12.12 12.49 49.09 58.79 109.23 74.66 16.55 1,60	4.02
049 Bella Coola Valley 42 74.34 * 25.00 97.09 70.59 123.29 46.51 - 1,8°	2.37
	7.68
	9.23 9.67 *
	8.87 *
	5.70 *
	7.70 * 1.82 *
	8.15 *
059 Peace River South 117 23.60 * 28.94 102.45 136.36 85.38 44.55 5.14 2,0	4.15 *
	7.73 * 4.23 *
	4.23 2.52 *
063 Saanich 74 7.28 * 10.04 23.76 91.23 138.97 39.60 6.55 1,58	0.66
	8.27
10.20	0.72 * 5.21
067 Ladysmith 52 19.20 * 18.48 65.22 132.18 96.26 32.89 5.03 1,75	0.31
	1.69
009 Qualicum 41 7.45 0.09 04.40 122.40 92.99 04.02 1.00 1,50	4.01 3.51 *
	2.21
072 Campbell River 133 19.52 * 15.41 65.35 173.81 90.50 45.02 4.18 1,97	1.40 *
	0.69 * 0.74 *
070 Agassiz - Hallisoli 47 55.90   52.79 94.42 145.65 91.50 50.00 5.00 2,02	1.70
078 Enderby 26 20.27 * 22.47 76.27 117.65 108.28 67.42 - 1,96	0.43 *
	8.58 *
45.71 144.95 60.09 60.05 36.51 - 1,9	5.38 * 4.76
	1.61
	2.48 *
	0.09 9.75 *
000 lellace   120 32.13   30.03 33.23 174.00 30.73 40.73 0.03 2,2	4.25 *
094 Telegraph Creek 3 17.86 76.92 66.67 90.91 43.48 153.85 - 2,18	9.12
102 Valicouver - Downtown E.side 12 14.03 13.77 20.02 37.10 01.00 31.10 11.00 35	1.71 *
164 Vancouver - Westside 23 1.20 * 0.76 5.16 22.52 83.73 68.38 19.65 1,00	9.76 *
100 Valicouver - 30dii	9.76 * 0.59 * 1.06 * 9.55 *
202 South Surrey/White Rock 28 2.30 * 1.99 20.17 68.88 113.00 58.70 8.53 1,39	9.76 * 0.59 * 1.06 * 9.55 * 1.63 *
PROVINCIAL TOTAL         7,084         10.45         10.24         41.27         81.87         99.60         54.40         10.51         1,48           Notes for this table follow the map.	9.76 * 0.59 * 1.06 * 9.55 * 1.63 * 6.75 * 6.40 *

Notes for this table follow the map.

#### Figure 29

#### LIVE BIRTH TEENAGE FERTILITY RATES BY LOCAL HEALTH AREA



Inset 1

Note: ASFR - Live births per 1,000 women age 15 to 19 years. Refer to Figure 1 to clarify geographical location of LHAs.

TABLE 11

LIVE BIRTHS BY MODE OF DELIVERY AND AGE OF MOTHER
BRITISH COLUMBIA, 2009

	Age of Mother (in Years)										
Mode of Delivery	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.	Total	
Spontaneous vertex	10	1,033	4,080	7,844	8,301	4,355	772	39	-	26,434	
Percent	71.4	73.1	65.9	61.8	57.6	52.4	44.5	30.2		58.9	
Spontaneous breech	-	4	14	54	36	31	11	1	-	151	
Percent	0.0	0.3	0.2	0.4	0.2	0.4	0.6	0.8		0.3	
Forceps	-	33	193	398	482	274	47	4	-	1,431	
Percent	0.0	2.3	3.1	3.1	3.3	3.3	2.7	3.1		3.2	
Vacuum	2	107	482	873	966	482	101	6	-	3,019	
Percent	14.3	7.6	7.8	6.9	6.7	5.8	5.8	4.7		6.7	
First cesarean	-	218	1,059	2,295	2,734	1,598	451	52	-	8,409	
Percent	0.0	15.4	17.1	18.1	19.0	19.2	26.0	40.3		18.7	
Repeat cesarean	-	19	363	1,220	1,904	1,579	352	27	-	5,464	
Percent	0.0	1.3	5.9	9.6	13.2	19.0	20.3	20.9		12.2	
N.S.	-	-	-	-	-	-	-	-	-	-	
TOTAL	14	1,414	6,191	12,684	14,423	8,319	1,734	129	-	44,908	
Percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0	

Note: Breech presentations may be coded to forceps, vacuum, first cesarean or repeat cesarean mode of delivery, as well as spontaneous breech. Total percentage may not add up to 100 due to rounding. Non-residents are excluded. N.S. - Not stated.



#### Vital Statistics Information Box

#### PLACE OF BIRTH FOR MIDWIFE ASSISTED BIRTHS

British Columbia, 2005-2009

The College of Midwives of British Columbia was established in 1995, and the first midwives were registered to practice in 1998. The Vital Statistics Agency implemented procedures to identify births delivered by registered midwives in 1998, and, by 1999, could identify all midwife assisted births. The table below shows the place of birth for midwife assisted births in the province from 2005 to 2009.

	20	005	2	2006		2007		2008		2009
Place of Birth	No.	%								
Hospital	1,505	70.8	1,760	74.1	2,054	75.6	2,509	76.2	2,949	75.9
Home	475	22.3	223	9.4	647	23.8	721	21.9	851	21.9
Other & unknown*	146	6.9	393	16.5	15	0.6	62	1.9	83	2.1
Midwife Assisted	2,126	100.0	2,376	100.0	2,716	100.0	3,292	100.0	3,883	100.0
Births										
Percent of Total										
Births Delivered		5.2		5.7		6.2		7.5		8.6
by Registered										
Midwives										

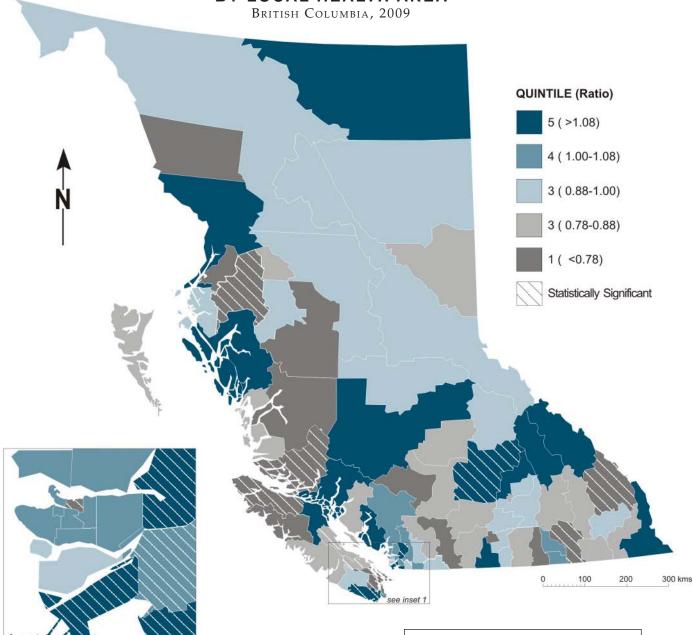
Note: \*Other and unknown includes birthing clinics.

		ı	ſ							l	l	I	I
44	Local Health Area	Spontaneous Vertex	First	Repeat	Ce Total	esarean Expected	Ratio	(n)	Percent	Other	N.S.	Total Live	Births Rate
001	Fernie	82	33	30	63	51.28	1.23	(h)	38.0	21	-	166	11.15
002 003	Cranbrook Kimberley	182 52	40 12	29 13	69 25	79.39 25.64	0.87 0.98		26.8 30.1	6 6	-	257 83	9.98 9.67
004	Windermere	75	12	8	20	31.20	0.64	*	19.8	6	-	101	9.42
005 006	Creston Kootenay Lake	95 14	23 5	11 1	34 6	41.70 6.80	0.82 0.88		25.2 27.3	6 2	-	135 22	10.66 5.72
007	Nelson	170	37	21	58	75.99	0.76	*	23.6	18	-	246	9.79
009 010	Castlegar Arrow Lakes	51 16	12 4	14 2	26 6	25.95 7.41	1.00		31.0 25.0	7 2	-	84 24	6.25 5.02
011 012	Trail Grand Forks	94 36	19 7	33 3	52 10	50.05 16.06	1.04 0.62		32.1 19.2	16 6	-	162 52	8.36 5.75
012	Kettle Valley	8	-	3	3	3.71	0.82		25.0	1	-	12	3.25
014 015	Southern Okanagan Penticton	78 203	21 69	12 33	33 102	36.14 103.18	0.91 0.99		28.2 30.5	6 29	-	117 334	5.90 8.02
016	Keremeos	23	6	7	13	12.05	1.08		33.3	3	-	39	7.44
017 018	Princeton Golden	15 28	3 8	3 13	6 21	6.80 16.99	0.88		27.3 38.2	1 6	-	22 55	4.35 7.46
019	Revelstoke	49	17	13	30	27.19	1.10		34.1	9	-	88	11.10
020 021	Salmon Arm Armstrong - Spallumcheen	156 54	50 11	45 8	95 19	81.56 23.48	1.16 0.81		36.0 25.0	13 3	-	264 76	7.56 7.85
022	Vernon	410 994	111 288	77	188	200.49	0.94		29.0 30.0	51	-	649	9.85
023 024	Central Okanagan Kamloops	638	211	221 171	509 382	523.31 338.58	0.97 1.13	*	34.9	191 76	-	1,694 1,096	9.19 9.89
025 026	100 Mile House North Thompson	70 27	19 8	10 5	29 13	33.98 13.59	0.85 0.96		26.4 29.5	11 4	-	110 44	7.45 10.21
027	Cariboo - Chilcotin	163	56	41	97	87.12	1.11		34.4	22	-	282	10.55
028 029	Quesnel Lillooet	156 26	49 4	29 3	78 7	79.70 11.43	0.98 0.61		30.2 18.9	24 4	-	258 37	10.94 8.36
030	South Cariboo	40	7	8	15	19.15	0.78		24.2	7	-	62	8.36
031 032	Merritt Hope	89 48	21 9	11 6	32 15	40.16 21.32	0.80 0.70		24.6 21.7	9 6	-	130 69	11.09 8.41
033	Chilliwack	679	179 337	129	308	334.56	0.92		28.4 30.9	96	-	1,083	12.80
034 035	Abbotsford Langley	1,003 943	234	209 169	546 403	545.24 455.04	1.00 0.89	*	30.9 27.4	216 127	-	1,765 1,473	12.98 11.38
037 038	Delta Richmond	437 1,064	162 325	148 225	310 550	257.33 552.66	1.20 1.00	*	37.2 30.7	86 175	-	833 1,789	8.28 9.26
040	New Westminster	386	153	75	228	226.13	1.01		31.1	118	-	732	11.26
041 042	Burnaby Maple Ridge	1,343 565	475 200	270 129	745 329	731.21 309.23	1.02 1.06		31.5 32.9	279 107	-	2,367 1,001	10.62 10.73
043	Coquitlam	1,258	473	307	780	700.94	1.11	*	34.4	231	-	2,269	10.53
044 045	North Vancouver West Vancouver-Bowen Is.	697 146	235 50	153 34	388 84	376.57 78.47	1.03 1.07		31.8 33.1	134 24	-	1,219 254	8.83 4.94
046	Sunshine Coast	121	50	22	72	65.80	1.09		33.8	20	-	213	7.21
047 048	Powell River Howe Sound	97 282	20 91	16 60	36 151	45.10 145.50	0.80 1.04		24.7 32.1	13 38	-	146 471	7.36 13.54
049 050	Bella Coola Valley Queen Charlotte	25 24	2 8	2	4 10	9.58 11.43	0.42 0.87		12.9 27.0	2	-	31 37	10.72 7.95
051	Snow Country	2	-	1	1	0.93	1.08		33.3	-	-	3	6.12
052 053	Prince Rupert Upper Skeena	102 52	28 8	25 13	53 21	55.61 24.10	0.95 0.87		29.4 26.9	25 5	-	180 78	12.64 14.42
054	Smithers	136	37	24	61	67.04	0.91		28.1	20	-	217	13.59
055 056	Burns Lake Nechako	67 152	9 42	11 27	20 69	30.58 71.36	0.65 0.97		20.2 29.9	12 10	-	99 231	12.56 15.39
057 059	Prince George Peace River South	713 218	210 54	127 32	337 86	350.01 103.80	0.96 0.83		29.7 25.6	83 32	-	1,133 336	11.79 12.46
060	Peace River North	396	103	87	190	190.30	1.00		30.8	30	-	616	17.69
061 062	Greater Victoria Sooke	1,080 437	395 170	213 109	608 279	568.72 234.47	1.07 1.19	*	33.0 36.8	153 43	-	1,841 759	8.31 11.38
063	Saanich	263	50	41	91	118.93	0.77	*	23.6	31	-	385	6.05
064 065	Gulf Islands Cowichan	65 386	11 69	6 56	17 125	25.33 167.74	0.67 0.75	*	20.7 23.0	32	-	82 543	5.22 9.54
066 067	Lake Cowichan Ladysmith	28 102	6 14	6 15	12 29	12.97 43.25	0.92 0.67	*	28.6 20.7	2 9	-	42 140	6.54 7.62
068	Nanaimo	598	144	93	237	285.13	0.83	*	25.7	88	-	923	8.97
069 070	Qualicum Alberni	158 217	30 61	29 35	59 96	73.21 109.98	0.81 0.87		24.9 27.0	20 43	-	237 356	5.23 11.29
071	Courtenay	339	79	46	125	152.61	0.82	*	25.3	30	-	494	7.71
072 075	Campbell River Mission	223 272	94 85	53 46	147 131	127.58 140.25	1.15 0.93		35.6 28.9	43 51	-	413 454	9.93 10.75
076	Agassiz - Harrison	61	13	12	25	30.27	0.83		25.5	12	-	98	10.90
077 078	Summerland Enderby	53 49	8 14	9 7	17 21	23.79 23.17	0.71 0.91		22.1 28.0	7 5	-	77 75	6.58 9.82
080 081	Kitimat Fort Nelson	64 50	33 27	13 12	46 39	36.14 29.04	1.27 1.34		39.3 41.5	7 5	-	117 94	11.36 15.37
083	Central Coast	14	4	2	6	7.11	0.84		26.1	3	-	23	15.68
084 085	Vancouver Island West Vancouver Island North	16 113	3 20	2 12	5 32	7.41 49.12	0.67 0.65	*	20.8 20.1	3 14	-	24 159	10.15 12.94
087	Stikine	7	1	2	3	3.09	0.97		30.0	-	-	10	9.89
088 092	Terrace Nisga'a	198 32	26 6	19	45 6	80.01 12.36	0.56 0.49	*	17.4 15.0	16 2	-	259 40	12.77 20.33
094	Telegraph Creek	7	-	2	2	2.78	0.72		22.2	-	-	9	13.01
161 162	Vancouver - City Centre Vancouver - Downtown E.side	544 357	265 99	73 34	338 133	327.76 171.76	1.03 0.77	*	31.9 23.9	179 66	-	1,061 556	8.89 8.60
163 164	Vancouver - North East Vancouver - Westside	615 633	232 222	124 126	356 348	340.43 346.30	1.05 1.00		32.3 31.0	131 140	-	1,102 1,121	10.53 8.42
165	Vancouver - Midtown	563	224	105	329	324.98	1.01		31.3	160	-	1,052	11.93
166 201	Vancouver - South Surrey	708 2,831	249 982	172 729	421 1,711	401.91 1,601.75	1.05 1.07	*	32.4 33.0	172 643	-	1,301 5,185	9.77 13.58
202	South Surrey/White Rock	301	116	80	196	163.73	1.20	*	37.0	33	-	530	6.29
Note	PROVINCIAL TOTAL es for this table follow the map	26,434	8,409	5,464	13,873	13,873.00	1.00		30.9	4,601	-	44,908	10.08

Notes for this table follow the map.

#### FIGURE 30

# CESAREAN DELIVERIES OF LIVE BORN INFANTS BY LOCAL HEALTH AREA



# Inset 1 0 50 kms

#### Notes for Table 12

Note: Ratio – observed over the expected cesareans in the specified area. Percent based upon live births in the specified area. Rate per 1,000 population in the specified area. \*Statistical testing indicates that observed cesarean births are significantly different from the expected (p<0.05, two tailed). +Denotes significance based on less than five births. Other is comprised of spontaneous breech, forceps, and vacuum. Total includes residents with unknown LHA. N.S. - Not Stated.

Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of LHAs.

#### Births - Birth Weight

Birth weight is recognized as a primary indicator of newborn health not only in BC and Canada but worldwide. It is also an important predictor of subsequent health and well being, as well as disability and death, among newborn infants. In BC, a baby is weighed (in grams) immediately after birth, and that weight is used as one of the diagnostic indicators of fetal growth.

The following tables show birth weight categorized by other indicators related to birth weight, such as gender, gestational age, and maternal age.

Babies born at term (37 to 41 weeks) and between 2,500 and 4,499 grams have been shown to have the most favourable prospects for good health. Table 13 indicates that 39,672 births or 88.3 percent of all live births in 2009 were in that category. There were 3,343 pre-term births (less than 37 weeks), which accounted for 7.4 percent of all live births.

Table 14 shows the number of live births to residents of BC in 2009 according to maternal age group and infant birth weight category. By far, most of the babies in each age group had healthy weights (from 2,500 to 4,499 grams).

Table 14 shows that mothers in the mid-age categories had the largest proportions of healthy weight babies and the lowest proportions of Low Birth Weight (LBW) babies (weighing less than 2,500 grams).

Table 15 displays the number and percent of LBW babies by gender according to the mother's age group. Female babies have a higher rate of LBW (58.36 per 1,000 female live births) than males (53.11 per 1,000 male live births).

Figure 31 graphically shows the pattern of LBW by maternal age groups. Women in the middle age groups had the lowest rates of LBW babies in 2009 with increasing rates in subsequent age groups. Older mothers not only have increased rates of LBW babies but the rate among older mothers has shown an increasing trend since 1986 as indicated in Figure 10.

Table 16 shows the incidence of LBW babies in the period 2004 to 2008 and the year 2009, stratified by the LHA of maternal residence for the whole province. As well as the incidence of such births, the 2004 to 2008 portion of the table shows the LBW rate per 1,000 live births and the ratio of the observed and expected number of LBW births in the LHA.

There were 16 LHAs with ratios that were statistically significant. Of these, 7 were high. The 2009 data show the incidence figures broken down by three categories: gestational age of the newborn, the total number of LBW births, and the rate. In some LHAs the number of LBW babies was quite low in 2009, so the rates should be viewed with caution.

Figure 32 shows BC LHAs displayed in five levels according to the 2004-2008 observed versus expected LBW ratio. High ratios, (Quintile 5, dark blue colour) mean that an LHA had quite a high ratio in the years 2004-2008. At the other extreme, the areas shown as dark grey had a relatively low ratio.

Table 13

LIVE BIRTHS BY BIRTH WEIGHT, GENDER, AND GESTATIONAL AGE
BRITISH COLUMBIA, 2009

Birth Weight	Ge	nder		Ge	estational Aç	je (in Weeks)			
(in Grams)	Male	Female	<20	20–27	28–36	37–41	42+	N.S.	_ Total
<500	15	17	3	29	-	-	-	-	32
500-749	29	34	-	57	6	-	-	-	63
750-999	35	35	-	52	18	-	-	-	70
1,000-1,249	58	42	-	27	73	-	-	-	100
1,250-1,499	68	65	-	4	125	4	-	-	133
1,500-1,749	124	98	-	-	218	4	-	-	222
1,750-1,999	143	160	-	-	280	23	-	-	303
2,000-2,249	268	278	-	1	412	133	-	-	546
2,250-2,499	491	539	-	-	513	517	-	-	1,030
2,500-2,749	934	1,132	-	-	537	1,528	1	-	2,066
2,750-2,999	1,978	2,508	-	-	474	4,008	4	-	4,486
3,000-3,249	3,410	3,950	-	-	280	7,059	21	-	7,360
3,250-3,499	4,464	4,620	-	1	145	8,899	39	-	9,084
3,500-3,749	4,409	3,811	-	-	52	8,116	52	-	8,220
3,750-3,999	3,200	2,393	-	-	22	5,514	57	-	5,593
4,000-4,249	1,969	1,268	-	-	11	3,184	42	-	3,237
4,250-4,499	915	473	-	-	1	1,364	23	-	1,388
4,500-4,749	408	186	-	-	1	580	13	-	594
4,750-4,999	164	64	-	-	1	220	6	1	228
5,000-5,249	52	20	-	-	-	68	4	-	72
5,250-5,499	15	8	-	-	-	23	-	-	23
5,500+	4	1	-	-	-	5	-	-	5
N.S.	26	27	-	-	-	-	-	53	53
TOTAL	23,179	21,729	3	171	3,169	41,249	262	54	44,908

Note: Non-residents are excluded. N.S. – Not stated.



TABLE 14

LIVE BIRTHS BY BIRTH WEIGHT AND AGE OF MOTHER
BRITISH COLUMBIA, 2009

Birth Weight				Age	of Mother (in	Years)				
(in Grams)	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.	Total
<500	-	-	4	10	12	4	2	-	-	32
500-749	-	3	12	14	24	5	4	1	-	63
750-999	-	3	10	21	18	12	5	1	-	70
1,000-1,249	-	4	8	24	29	26	6	3	-	100
1,250-1,499	-	1	12	34	43	30	11	2	-	133
1,500-1,749	-	6	32	53	62	52	15	2	-	222
1,750-1,999	-	9	33	79	103	54	24	1	-	303
2,000-2,249	-	12	65	130	174	133	30	2	-	546
2,250-2,499	1	30	123	272	327	207	61	9	-	1,030
2,500-2,749	-	78	299	545	660	382	90	12	-	2,066
2,750-2,999	1	128	597	1,297	1,492	772	184	15	-	4,486
3,000-3,249	3	227	1,036	2,074	2,347	1,363	292	18	-	7,360
3,250-3,499	3	272	1,321	2,563	2,870	1,722	306	27	-	9,084
3,500-3,749	2	280	1,079	2,344	2,657	1,546	300	12	-	8,220
3,750-3,999	4	177	739	1,688	1,750	1,025	198	12	-	5,593
4,000-4,249	-	104	484	852	1,085	591	118	3	-	3,237
4,250-4,499	-	54	197	400	455	228	46	8	-	1,388
4,500-4,749	-	18	93	168	195	95	24	1	-	594
4,750-4,999	-	7	24	67	74	48	8	-	-	228
5,000-5,249	-	1	12	22	24	11	2	-	-	72
5,250-5,499	-	-	3	9	7	4	-	-	-	23
5,500+	-	-	-	2	1	2	-	-	-	5
Low	1	68	299	637	792	523	158	21	-	2,499
Percent	7.1	4.8	4.8	5.0	5.5	6.3	9.1	16.3	-	5.6
Healthy	13	1,320	5,752	11,763	13,316	7,629	1,534	107	-	41,434
Percent	92.9	93.4	92.9	92.7	92.3	91.7	88.5	82.9	-	92.3
High	-	26	132	268	301	160	34	1	-	922
Percent	-	1.8	2.1	2.1	2.1	1.9	2.0	8.0	-	2.1
N.S.	-	-	8	16	14	7	8	-	-	53
TOTAL	14	1,414	6,191	12,684	14,423	8,319	1,734	129	-	44,908

Note: Low birth weight <2,500 grams. Healthy birth weight 2,500 to 4,499 grams. High birth weight 4,500+ grams. Percent of age category in birth weight group. Non-residents are excluded. N.S. - Not stated.



Table 15

#### LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER AND GENDER

British Columbia, 2009

Age of	M	ale	Fer	nale		Total	
Mother	Number	Percent	Number	Percent	Number	Percent	Rate
< 15	-	-	1	0.1	1	0.0	+
15-19	31	2.5	37	2.9	68	2.7	48.09
20-24	147	11.9	152	12.0	299	12.0	48.30
25-29	320	26.0	317	25.0	637	25.5	50.22
30-34	384	31.2	408	32.2	792	31.7	54.91
35-39	250	20.3	273	21.5	523	20.9	62.87
40-44	85	6.9	73	5.8	158	6.3	91.12
45 +	14	1.1	7	0.6	21	0.8	162.79
N.S.	-	-	-	-	-	-	-
TOTAL	1,231	100.0	1,268	100.0	2,499	100.0	55.65

Note: Rate per 1,000 live births for the specified age group.

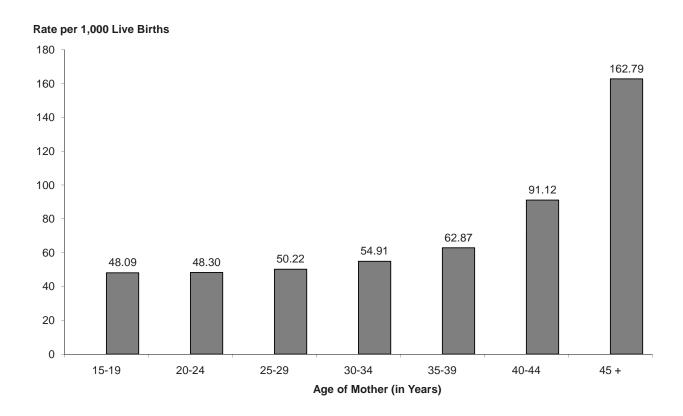
Low birth weight: birth weight less than 2,500 grams.

Total percentage may not add up to 100 due to rounding. Total includes unknown gender.

+ Denotes the number of cases is less than five

Non-residents are excluded. N.S. – Not stated.

Figure 31 LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER British Columbia, 2009



# LOW BIRTH WEIGHT LIVE BIRTHS BY LOCAL HEALTH AREA AND GESTATIONAL AGE, British Columbia, 2004–2008 and 2009

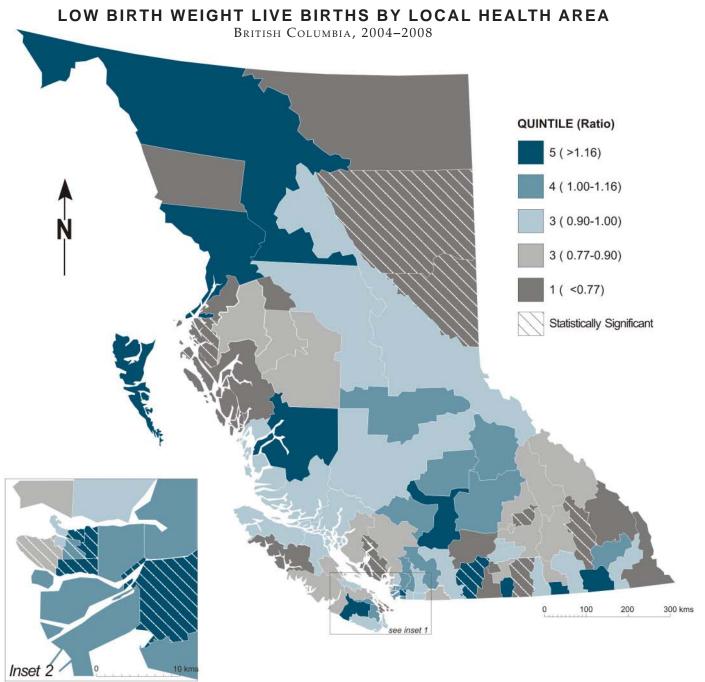
- 0			2004–200					200	)9		
50			n Weight				onal Age (in				
Local	Health Area	Observed	Ratio	(p)	Rate	<37	37–41	42+	N.S.	Total	Rate
001	Fernie	27	0.72		40.30	4	2	-	-	6	36.14
002	Cranbrook	65	0.99		55.32	7	4	-	-	11	42.80
003	Kimberley	22	1.15		63.95	3	2	-	-	5	60.24
004	Windermere	17	0.75		41.87	10	4	-	-	14	138.61
005 006	Creston Kootenay Lake	38 2	1.21 0.23	+	67.74 12.99	4 3	2	-	-	6 3	44.44 136.36
007	Nelson	59	0.23	т	51.22	9	1		-	10	40.65
009	Castlegar	20	0.79		44.15	2	1	-	-	3	35.71
010	Arrow Lakes	8	0.86		47.90	-	-	-	-	-	-
011	Trail	52	1.23		68.51	6	3	-	-	9	55.56
012	Grand Forks	17	0.91		51.05	2	1	-	-	3	57.69
013 014	Kettle Valley Southern Okanagan	2 48	0.28 1.34	+	15.38 74.65	1 6	6	-	-	1 12	83.33 102.56
014	Penticton	77	0.88		49.08	9	6		-	15	44.91
016	Keremeos	6	0.60		33.52	4	1	-	-	5	128.21
017	Princeton	14	1.86	*	103.70	2	-	-	-	2	90.91
018	Golden	16	0.83		46.24	2	2	-	-	4	72.73
019	Revelstoke	17	0.82		45.70	1 9	4	-	-	5	56.82
020 021	Salmon Arm Armstrong - Spallumcheen	60 20	0.85 0.86		47.43 47.96	9	6 1	-	-	15 2	56.82 26.32
021	Vernon	133	0.80		50.19	27	7	-	-	34	52.39
023	Central Okanagan	386	0.93		52.17	60	21	-	-	81	47.82
024	Kamloops	282	1.05		58.81	48	17	-	-	65	59.31
025	100 Mile House	31	1.09		61.14	5	1	-	-	6	54.55
026	North Thompson	13	1.02		57.02	3	1	-	-	4	90.91
027 028	Cariboo - Chilcotin Quesnel	79 69	0.98 1.02		54.79 56.70	12 13	3 2	-	-	15 15	53.19 58.14
028	Lillooet	15	1.02		59.76	-	1	-	_	15	27.03
030	South Cariboo	22	1.32		73.83	3	1	-	-	4	64.52
031	Merritt	23	0.71		39.38	3	2	-	-	5	38.46
032	Hope	19	0.92		51.63	1	2	-	-	3	43.48
033	Chilliwack	239	0.89		49.68	42	6	-	-	48	44.32
034 035	Abbotsford Langley	425 341	0.92 0.94		51.27 52.66	85 47	26 19	-	-	111 66	62.89 44.81
033	Delta	251	1.00		56.06	40	17	_	_	57	68.43
038	Richmond	460	1.01		56.41	62	26	-	-	88	49.19
040	New Westminster	215	1.18	*	65.73	33	10	-	-	43	58.74
041	Burnaby	629	1.04		58.08	90	42	-	-	132	55.77
042	Maple Ridge	278	1.07		59.82	36	6	-	-	42	41.96
043 044	Coquitlam North Vancouver	607 329	1.06 0.96		59.05 53.58	110 56	34 25	-	-	144 81	63.46 66.45
044	West Vancouver-Bowen Is.	64	0.81		45.17	5	3		-	8	31.50
046	Sunshine Coast	39	0.70	*	39.20	10	2	-	-	12	56.34
047	Powell River	30	0.80		44.78	4	-	-	-	4	27.40
048	Howe Sound	103	0.85		47.47	19	5	-	-	24	50.96
049	Bella Coola Valley	18	1.36		75.95	3	-	-	-	3	96.77
050 051	Queen Charlotte Snow Country	17 3	1.20 1.85		67.19 103.45	-	-	-	-	-	-
052	Prince Rupert	34	0.71	*	39.72	5	-		-	5	27.78
053	Upper Skeena	10	0.56		31.15	2	-	-	-	2	25.64
054	Smithers	49	0.81		45.04	10	3	-	-	13	59.91
055	Burns Lake	21	0.86		47.95	4	2	-	-	6	60.61
056 057	Nechako	56 291	0.93 0.96		51.80	9 49	3 24	-	-	12 73	51.95 64.43
057	Prince George Peace River South	63	0.96	*	53.58 40.83	13	3		-	16	47.62
060	Peace River North	113	0.73	*	40.71	22	13	-	_	35	56.82
061	Greater Victoria	451	0.91	*	50.63	65	25	-	-	90	48.89
062	Sooke	179	0.98		54.92	22	8	-	-	30	39.53
063	Saanich	107	0.98		54.62	15	3	-	-	18	46.75
064	Gulf Islands	17	0.70		39.35	1	3	-	-	4	48.78
065 066	Cowichan Lake Cowichan	164 16	1.12 1.26		62.60 70.48	17 -	11 -	-	-	28	51.57 -
067	Ladysmith	46	1.10		61.42	5	4	-	-	9	64.29
068	Nanaimo	211	0.88		48.94	41	11	-	-	52	56.34
069	Qualicum	65	0.94		52.67	7	7	-	-	14	59.07
070	Alberni	80	0.89		49.50	13	2	-	-	15	42.13
071 072	Courtenay Campbell River	121 95	0.90 0.92		50.42 51.55	18 19	6 5	-		24 24	48.58 58.11
072	Mission	119	0.92		52.80	19	3	-	-	24	48.46
075	Agassiz - Harrison	29	1.07		59.55	4	1	-	-	5	51.02
077	Summerland	13	0.66		36.62	1	4	-	-	5	64.94
078	Enderby	11	0.55	*	30.47	3	-	-	-	3	40.00
080	Kitimat	19	0.76		42.22	3	2	-	-	5	42.74
081 083	Fort Nelson Central Coast	20 8	0.70		39.06 54.05	5	-	-	-	5	53.19
083 084	Vancouver Island West	8 4	0.97 0.60		33.33	-				-	-
085	Vancouver Island North	41	0.96		53.59	10		-	-	10	62.89
087	Stikine	3	2.15		120.00	2	-	-	-	2	200.00
088	Terrace	58	0.85		47.46	14	2	-	-	16	61.78
092	Nisga'a	6	0.67		37.27	1	2	-	-	3	75.00
094	Telegraph Creek	224	- 0.00		FO 47	-	- 16	-	-	- 62	E0 //
161 162	Vancouver - City Centre Vancouver - Downtown E.side	224 156	0.90 1.21	*	50.47 67.59	46 41	16 3		-	62 44	58.44 79.14
163	Vancouver - North East	364	1.19	*	66.19	40	29	-	-	69	62.61
164	Vancouver - Westside	273	0.87	*	48.48	45	16	-	-	61	54.42
165	Vancouver - Midtown	318	1.12	*	62.72	49	12	-	-	61	57.98
166	Vancouver - South	462	1.26	*	70.17	52	21	-	-	73	56.11
201	Surrey South Surrey/White Book	1,548	1.17	*	65.14	221	109	-	-	330	63.65
202	South Surrey/White Rock PROVINCIAL TOTAL	162 <b>11,738</b>	1.08 <b>1.00</b>		60.20 <b>55.85</b>	23 <b>1,818</b>	3 <b>681</b>	-	-	26 <b>2,499</b>	49.06 <b>55.65</b>
Motor	Low Right Weight bigth w									-	

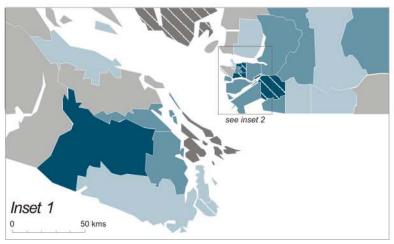
2004-2008

2009

Note: Low Birth Weight – birth weight less than 2,500 grams. Ratio – observed over the expected low birth weight live births. \* Statistical testing indicates that observed low birth weight live births are significantly different from the expected (p<0.05, two tailed). Rate per 1,000 live births in the specified area. Total includes residents with unknown LHA. N.S. - Not Stated.

FIGURE 32





Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of LHAs.

#### Births - Maternal Complications and Perinatal Conditions

Both maternal complications and perinatal conditions can be used as health status indicators. Only diagnoses affecting pregnancy, labour, or delivery were selected for the maternal complications part of this report. Perinatal conditions consist of diagnoses affecting the baby shortly before, during, or after birth.

The maternal complications shown in Table 17 are limited to those diagnoses that affected pregnancy, labour, or delivery. Note that an unlimited number of complications can be noted for each birth, so the total number of maternal complications can be greater than the number of live births with maternal complications.

Assisted or Surgical Delivery and Maternal Abnormalities of the Pelvic Organs were the two most frequent diagnostic categories of maternal complications in 2009 and the previous five years. The proportions of age group births that had pelvic organ abnormalities (including conditions such as cervical incompetence as well as scarring from surgeries such as previous cesarean sections) were observed more frequently in older mothers. Births complicated by Maternal Abnormality of Pelvic Organs made up 1.8 percent of births to mothers under 20 years old compared to 21.0 percent of births for mothers 40 years and over. The proportions of age group births that had at least one complication are shown along the bottom of the table.

Elderly primigravida (ICD-10 code Z35.5) refers to women aged 35 or older who are experiencing their first pregnancy. This condition has always been recorded; however, the ICD-9 code (659.5) was included with other complications of labour and delivery, while ICD-10 puts elderly primigravida in the chapter with factors influencing health status and contact with health services. Elderly primigravida comprised 5.4 percent of all maternal complications in 2004-2008 and 5.6 percent in 2009 as shown in Table 17.

Table 18 shows the incidence of live births with maternal complications by LHA for the period 2004-2008 and for the year 2009. The observed births columns show the number of live births with complications stratified by maternal LHA of residence. The ratios indicate the number of observed births divided by the number that would be expected if the LHA had the provincial rates and (p) indicates those LHAs where the observed number was significantly different from the expected.

In 2009, there were statistically significant low ratios in 8 LHAs, whereas 6 LHAs had high ratios that were statistically significant. In the 2004-2008 period, 19 LHAs had low ratios that were statistically significant and 14 LHAs had high ratios that were statistically significant.

The map in Figure 33 shows the LHAs identified in their quintile ranks by their 2004-2008 ratios of observed births with maternal complications versus the expected number of births with such conditions. LHAs with the highest ratios are coloured dark blue, and those with the lowest ratios are dark grey.

The conditions listed in Table 19 consist of diagnoses affecting the baby shortly before, during, or after birth. The table shows the number and percent of all perinatal conditions in each condition category for 2004-2008 and 2009. The 2009 portion of the table also shows the conditions by maternal age group. Again, an unlimited number of complications can be noted for each birth, so the total number of perinatal conditions at the bottom of the table may exceed the number of live births with at least one perinatal condition.

Intrauterine hypoxia and birth asphyxia accounted for most of the perinatal conditions in both time periods (42.6 percent in 2004-2008 and 42.7 percent in 2009). Conditions related to short gestation and those related to long gestation or high birth weight together accounted for 36.6 percent of the conditions in 2009 and 37.7 percent in the 2004-2008 period.

Table 20 shows the incidence of live births with perinatal conditions by the mother's LHA of residence for the period 2004-2008 and for the year 2009. In 2009, there were 21 LHAs where the observed number of perinatal conditions was significantly different from the expected number, and in 13 of these, the observed number was significantly higher.

Figure 34 map shows the LHAs identified in their quintile ranks by their 2004-2008 ratios of observed births with perinatal conditions to the expected number of births with such conditions. LHAs with the highest ratios are coloured dark blue, and those with the lowest ratios are dark grey.

#### Table 17

# MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS BY AGE OF MOTHER

British Columbia, 2004–2008 and 2009

							2009			
			14-2008			Mother (ir			-1	1
Maternal Complications	ICD-10 Code(s)	Total	Percent	<20	20–29	30–39	40+	N.S.	Total	Percent
Hypertension/hypertensive disorders in pregnancy	O10-O11, O13, O16	2,532	1.7	20	206	274	43	-	543	1.7
Edema and proteinuria without hypertension	O12	30	0.0	-	-	1	-	-	1	0.0
Pre-eclampsia/eclampsia	O14-O15	935	0.6	12	92	111	15	-	230	0.7
Hemorrhage in early pregnancy	O20	3	0.0	-	1	2	-	-	3	0.0
Hyperemesis gravidarum	O21	65	0.0	1	4	5	1	_	11	0.0
Other maternal disorders	O22-O23,	1,826	1.2	14	148	181	13	-	356	1.1
predominantly related to	O25-O29									
pregnancy										
Diabetes in pregnancy	O24	2,303	1.5	5	149	308	55	-	517	1.6
Multiple gestation and	O30-O31	6,255	4.2	20	435	791	139	-	1,385	4.2
related complications										
Fetal malpresentation	O32	6,807	4.6	35	580	782	66	-	1,463	4.5
Disproportion	O33	440	0.3	2	27	36	1	-	66	0.2
Maternal abnormality of	O34	25,209	16.9	26	1,646	3,541	392	-	5,605	17.1
pelvic organs										
Disorders of amniotic fluid	O40-O42	4,251	2.9	19	369	480	49	-	917	2.8
and membranes										
Placental disorders	O43-O45,	2,181	1.5	13	171	284	41	-	509	1.6
	O73									
Antepartum hemorrhage	O46	396	0.3	2	30	46	6	-	84	0.3
Prolonged pregnancy	O48	1,275	0.9	3	102	124	7	-	236	0.7
Preterm labour and delivery	O60	9,095	6.1	82	786	857	88	-	1,813	5.5
Abnormalities of forces of labour	O62-O63	6,261	4.2	34	622	783	57	-	1,496	4.6
Obstructed labour	O64-O66	11,639	7.8	90	1,140	1,254	78	-	2,562	7.8
Intrapartum hemorrhage	O67	-	-	-	-	-	-	-	-	-
Evidence of fetal distress	O68	8,615	5.8	64	833	1,024	91	-	2,012	6.1
Cord complications	O69	2,413	1.6	21	242	273	20	-	556	1.7
Obstetrical trauma	O70-O71	1,506	1.0	12	193	175	6	-	386	1.2
Postpartum hemorrhage	O72	1,995	1.3	30	234	228	16	-	508	1.6
Assisted or surgical delivery -	O81-O82	30,596	20.5	148	2,692	3,320	325	-	6,485	19.8
no cause given <sup>1</sup>										
Maternal and puerperal	O85-O86,	287	0.2	6	43	28	3	-	80	0.2
infections	O98, A34									
Other puerperal complications	O87-O92	63	0.0	-	6	7	1	-	14	0.0
Maternal noninfectious diseases	O99	2,200	1.5	22	204	266	27	-	519	1.6
complicating the pregnant state										
Elderly primigravida	Z355	8,096	5.4	-	-	1,579	255	-	1,834	5.6
Maternal drug use	O355	457	0.3	4	36	29	3	-	72	0.2
Other maternal complications	O00-O08, O350-O353,	11,312	7.6	92	1,050	1,211	125		2,478	7.6
O356-O36, O47, O61, O74-O75,	O95-O97									
Total maternal complications		149,043	100.0	777	12,041	18,000	1,923		32,741	100.0
Live births with the above	- Number	109,889		571	8,954	12,769	1,256	-	23,550	
maternal complications	- Percent(*)	52.3		40.0	47.4	56.1	67.4		52.4	

Note: Percent based upon maternal complications. Percent (\*) based upon live births for the specified maternal age group. 

¹Where no other complication code is found. Total percentage may not add up to 100 due to rounding. 

N.S. - Not Stated. Non-residents are excluded.

#### Vital Statistics Information Box

#### Top 25 Baby Names in 2009

Each year the British Columbia Vital Statistics Agency produces a list of the most chosen baby names. The table below provides the top 25 names. Alternate spellings of names that sound alike (such as Catherine, Katherine, and Katharine) are not combined. The complete 2009 list, as well as lists for several previous years can be found at <a href="http://www.vs.gov.bc.ca/babynames/index.html">http://www.vs.gov.bc.ca/babynames/index.html</a>. In 2009, 679 boys' names and 756 girls' names were chosen for five or more newborns.

Rank	Name	Number	Name	Numbei
1	Ethan	300	Olivia	243
2	Liam	286	Emma	228
3	Jacob	225	Sophia	226
4	Logan	217	Ava	223
5	Noah	205	Emily	201
6	Matthew	203	Isabella	184
7	Lucas	197	Chloe	183
8	Alexander	195	Lily	152
9	Benjamin	195	Hannah	151
10	Nathan	187	Ella	145
11	Owen	182	Sophie	136
12	Ryan	173	Abigail	131
13	Joshua	168	Grace	131
14	Mason	164	Alexis	126
15	William	164	Madison	120
16	Daniel	152	Sarah	116
17	James	151	Maya	108
18	Jack	148	Charlotte	107
19	Samuel	142	Avery	102
20	Carter	141	Brooklyn	100
21	Oliver	141	Elizabeth	98
22	Evan	140	Claire	97
23	Dylan	138	Taylor	96
24	Jayden	138	Julia	91
25	Aiden	135	Hailey	83

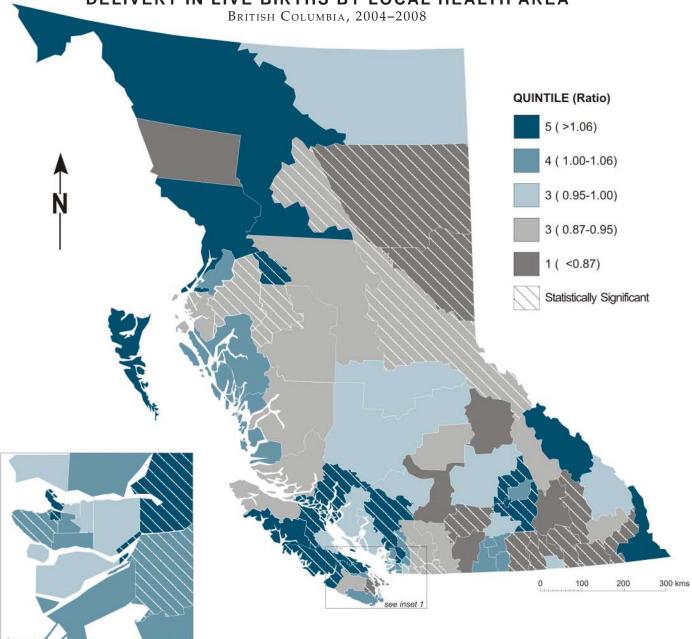
British Columbia, 2004–2008 and 2009

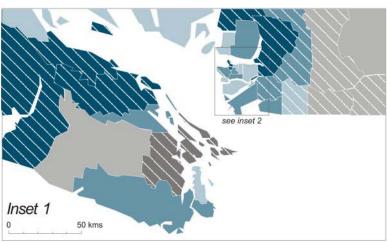
			2	2004	-2008	I			2009		
56		Observed		-004	2000	Total	Observed	Expected	2003		Total
	ealth Area	Births	Ratio	(p)	Percent	Live Births	Births	Births	Ratio (p)		Live Births
001 002	Fernie Cranbrook	386 518	1.10 0.84	*	57.6 44.1	670 1,175	108 89	87.1 134.8	1.24 * 0.66 *	65.1 34.6	166 257
002	Kimberley	157	0.87		45.6	344	34	43.5	0.78	41.0	83
004	Windermere	209	0.98		51.5	406	43	53.0	0.81	42.6	101
005 006	Creston	228 46	0.78	*	40.6 29.9	561 154	52 10	70.8	0.73 * 0.87	38.5 45.5	135 22
006	Kootenay Lake Nelson	428	0.57 0.71	*	29.9 37.2	1,152	105	11.5 129.0	0.87	45.5 42.7	246
009	Castlegar	198	0.84	*	43.7	453	41	44.1	0.93	48.8	84
010	Arrow Lakes	70	0.80		41.9	167	13	12.6	1.03	54.2	24
011 012	Trail Grand Forks	384 145	0.97 0.83	*	50.6 43.5	759 333	91 22	85.0 27.3	1.07 0.81	56.2 42.3	162 52
013	Kettle Valley	35	0.51	*	26.9	130	4	6.3	0.64	33.3	12
014	Southern Okanagan	344	1.02		53.5	643	54	61.4	0.88	46.2	117
015 016	Penticton Keremeos	841 98	1.03 1.05		53.6 54.7	1,569 179	183 19	175.2 20.5	1.04 0.93	54.8 48.7	334 39
017	Princeton	60	0.85		44.4	135	11	11.5	0.95	50.0	22
018	Golden	194	1.07		56.1	346	31	28.8	1.07	56.4	55
019 020	Revelstoke Salmon Arm	184 778	0.95 1.18	*	49.5 61.5	372 1,265	49 153	46.1 138.4	1.06 1.11	55.7 58.0	88 264
020	Armstrong - Spallumcheen	235	1.08		56.4	417	37	39.9	0.93	48.7	76
022	Vernon	1,481	1.07	*	55.9	2,650	349	340.3	1.03	53.8	649
023 024	Central Okanagan	3,785	0.98 0.97		51.2 50.9	7,399	914 570	888.3 574.7	1.03 0.99	54.0 52.0	1,694 1,096
024	Kamloops 100 Mile House	2,441 236	0.89		46.5	4,795 507	48	574.7	0.83	43.6	110
026	North Thompson	98	0.82		43.0	228	20	23.1	0.87	45.5	44
027	Cariboo - Chilcotin	747	0.99		51.8	1,442	152	147.9	1.03	53.9	282
028 029	Quesnel Lillooet	606 130	0.95 0.99		49.8 51.8	1,217 251	139 20	135.3 19.4	1.03 1.03	53.9 54.1	258 37
030	South Cariboo	134	0.86		45.0	298	28	32.5	0.86	45.2	62
031	Merritt	258	0.84	*	44.2	584	56	68.2	0.82	43.1	130
032 033	Hope Chilliwack	181 2,371	0.94 0.94	*	49.2 49.3	368 4,811	25 492	36.2 567.9	0.69 0.87 *	36.2 45.4	69 1,083
034	Abbotsford	3,880	0.90	*	46.8	8,290	849	925.6	0.92 *	48.1	1,765
035	Langley	3,225	0.95	*	49.8	6,475	741	772.4	0.96	50.3	1,473
037 038	Delta Richmond	2,408 4,198	1.03 0.98		53.8 51.5	4,477 8,154	459 914	436.8 938.2	1.05 0.97	55.1 51.1	833 1,789
040	New Westminster	1,899	1.11	*	58.1	3,271	439	383.9	1.14 *	60.0	732
041	Burnaby	5,559	0.98		51.3	10,829	1,241	1,241.3	1.00	52.4	2,367
042 043	Maple Ridge Coguitlam	2,539 5,988	1.04 1.11	*	54.6 58.2	4,647 10,280	520 1,292	524.9 1,189.9	0.99 1.09 *	51.9 56.9	1,001 2,269
043	North Vancouver	3,265	1.02		53.2	6,140	652	639.3	1.02	53.5	1,219
045	West Vancouver-Bowen Is.	732	0.99		51.7	1,417	139	133.2	1.04	54.7	254
046	Sunshine Coast	500 340	0.96		50.3	995	118	111.7	1.06	55.4	213 146
047 048	Powell River Howe Sound	1,225	0.97 1.08	*	50.7 56.5	670 2,170	69 273	76.6 247.0	0.90 1.11	47.3 58.0	471
049	Bella Coola Valley	115	0.93		48.5	237	15	16.3	0.92	48.4	31
050	Queen Charlotte	144	1.09		56.9	253	19	19.4	0.98	51.4	37
051 052	Snow Country Prince Rupert	18 413	1.19 0.92		62.1 48.2	29 856	1 94	1.6 94.4	0.64 1.00	33.3 52.2	3 180
053	Upper Skeena	194	1.16	*	60.4	321	49	40.9	1.20	62.8	78
054	Smithers	519	0.91	*	47.7	1,088	102	113.8	0.90	47.0	217
055 056	Burns Lake Nechako	213 526	0.93		48.6 48.7	438 1,081	40 123	51.9 121.1	0.77 1.02	40.4 53.2	99 231
057	Prince George	2,555	0.90	*	47.0	5,431	552	594.2	0.93	48.7	1,133
059	Peace River South	620	0.77	*	40.2	1,543	143	176.2	0.81 *	42.6	336
060 061	Peace River North Greater Victoria	1,140 4,709	0.79	*	41.1 52.9	2,776 8,908	262 1,023	323.0 965.4	0.81 * 1.06	42.5 55.6	616 1,841
062	Sooke	1,778	1.04		54.6	3,259	414	398.0	1.04	54.5	759
063	Saanich	975	0.95		49.8	1,959	177	201.9	0.88	46.0	385
064 065	Gulf Islands Cowichan	174 1,185	0.77 0.86	*	40.3 45.2	432 2,620	33 246	43.0 284.8	0.77 0.86 *	40.2 45.3	82 543
066	Lake Cowichan	1,185	0.86		45.2 48.9	2,620	246 23	284.8 22.0	1.04	45.3 54.8	543 42
067	Ladysmith	404	1.03		53.9	749	71	73.4	0.97	50.7	140
068	Nanaimo	2,641	1.17	*	61.3	4,311	554 125	484.0	1.14 *	60.0	923
069 070	Qualicum Alberni	719 1,013	1.11 1.20	*	58.3 62.7	1,234 1,616	125 205	124.3 186.7	1.01 1.10	52.7 57.6	237 356
071	Courtenay	1,197	0.95		49.9	2,400	237	259.1	0.91	48.0	494
072	Campbell River	1,109	1.15	*	60.2	1,843	244	216.6	1.13	59.1	413
075 076	Mission Agassiz - Harrison	1,080 235	0.92 0.92	*	47.9 48.3	2,254 487	223 49	238.1 51.4	0.94 0.95	49.1 50.0	454 98
070	Summerland	190	1.02		53.5	355	46	40.4	1.14	59.7	77
078	Enderby	190	1.01		52.6	361	39	39.3	0.99	52.0	75
080 081	Kitimat Fort Nelson	236 256	1.00 0.96		52.4 50.0	450 512	59 48	61.4 49.3	0.96 0.97	50.4 51.1	117 94
083	Central Coast	256 79	1.02		53.4	148	10	49.3 12.1	0.83	43.5	23
084	Vancouver Island West	70	1.12		58.3	120	14	12.6	1.11	58.3	24
085	Vancouver Island North	378	0.94		49.4 56.0	765	72	83.4	0.86	45.3	159
087 088	Stikine Terrace	14 581	1.07 0.91	*	56.0 47.5	25 1,222	8 113	5.2 135.8	1.53 0.83	80.0 43.6	10 259
092	Nisga'a	86	1.02		53.4	161	19	21.0	0.91	47.5	40
094	Telegraph Creek	21	0.84		43.8	48	4	4.7	0.85	44.4	9
161 162	Vancouver - City Centre Vancouver - Downtown E.side	2,670 1,199	1.15 0.99	*	60.2 51.9	4,438 2,308	632 296	556.4 291.6	1.14 * 1.02	59.6 53.2	1,061 556
163	Vancouver - North East	2,830	0.98		51.5	5,499	609	577.9	1.05	55.3	1,102
164	Vancouver - Westside	3,061	1.04	*	54.4	5,631	604	587.9	1.03	53.9	1,121
165 166	Vancouver - Midtown Vancouver - South	2,692 3,434	1.02 1.00		53.1 52.2	5,070 6.584	611 677	551.7 682.3	1.11 * 0.99	58.1	1,052 1,301
201	Surrey	12,875	1.00	*	52.2 54.2	6,584 23,763	677 2,733	682.3 2,719.0	1.01	52.0 52.7	5,185
202	South Surrey/White Rock	1,452	1.03		54.0	2,691	264	277.9	0.95	49.8	530
	PROVINCIAL TOTAL  Statistical testing indicates the	109,889	1.00		52.3	210,153	23,550	23,550.0	1.00	52.4	44,908

Note: \*Statistical testing indicates that the observed number of births with maternal complications is significantly different from the expected (p<0.05, two tailed). Ratio - observed over expected. Percent of observed births is based on total live births. Total includes residents with unknown LHA. Non-residents are excluded.

#### Figure 33

# MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS BY LOCAL HEALTH AREA





Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of LHAs.

Table 19

#### PERINATAL CONDITIONS IN LIVE BIRTHS BY AGE OF MOTHER

British Columbia, 2004–2008 and 2009

							2009			
		2004-	-2008		Age	of Mother (	in Years)			
Perinatal Conditions	ICD-10 Code	Total	Percent	<20	20–29	30–39	40+	N.S.	Total	Percent
Fetus/newborn affected by maternal conditions that may be unrelated to present pregnancy	P00	41	0.0	1	9	18	1	-	29	0.1
Complications of pregnancy, labour and delivery	P01, P03	11,596	12.6	66	1,046	1,419	192	-	2,723	13.7
Fetus/newborn affected by complications of placenta, cord and membranes	P02	2,871	3.1	25	308	395	42	-	770	3.9
Fetus affected by noxious influences transmitted via placenta (or breast milk)	P04	35	0.0	3	9	8	-		20	-
Slow fetal growth and malnutrition	P05	2,170	2.4	12	116	129	26	-	283	1.4
Perinatal disorders related to short gestation	P072, P073	15,529	16.9	111	1,209	1,646	218	-	3,184	16.0
Disorders related to long gestation or high birth weight	P08	19,051	20.7	129	1,708	2,074	168	-	4,079	20.6
Perinatal birth trauma Intrauterine hypoxia and birth asphyxia	P10-P15 P20-P21	304 39,109	0.3 42.6	1 350	41 3,825	27 3,935	1 354	-	70 8,464	0.4 42.7
Respiratory conditions of fetus and newborn	P22-P28	524	0.6	3	36	38	3	-	80	0.4
Cardiovascular disorders originating in the perinatal period	P29	-	0.0	-	-	-	-	-	-	0.0
Infections specific to the perinatal period	P35-P39	33	0.0	-	1	-	-	-	1	0.0
Fetal and neonatal hemorrhage Perinatal jaundice/other hematological disorders	P50-P52, P54 P53, P55-P61	90 45	0.1 0.0	-	3	11 5	2 1	-	16 9	0.1
Perinatal endocrine and metabolic disorders	P70-P74	35	0.0	-	2	2	-	-	4	0.0
Digestive system disorders of fetus and newborn	P76-P78	5	0.0	-	-	-	-	-	-	0.0
Perinatal conditions of the integument and of temperature regulation	P80-P83	145	0.2	1	24	11	1	-	37	0.2
Other disorders originating in the perinatal period	P90-P96	255	0.3	5	34	30	3	-	72	0.4
All Perinatal Conditions Live births with the above perinatal conditions	- Number - Percent(*)	91,838 72,248 34.4	100.0	707 567 39.7	8,374 6,600 35.0	9,748 7,659 33.7	1,012 720 38.6	:	19,841 15,546 34.6	100.0

Note: Percent based upon perinatal conditions. Percent (\*) based upon live births for the maternal age group. Total percentage may not add up to 100 due to rounding. N.S. - Not stated. Non-residents are excluded.

#### Vital Statistics Information Box

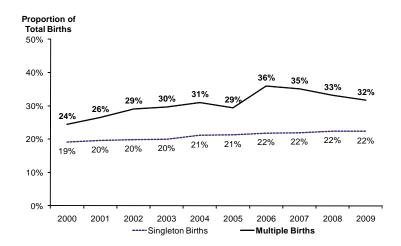
#### BIRTH AND OLDER MOTHERS IN BRITISH COLUMBIA, 2000 - 2009

Older mothers, those aged 35 and over, have increased their share of the total births to women in British Columbia. Since 2000, the share of multiple births attributable to older mothers has increased by almost one third. Most of these births are via cesarean section; however, the proportion of these births considered to be Low Birth Weight has remained relatively stable.

#### PROPORTION OF SINGLETON AND MULTIPLE BIRTHS

#### TO MOTHERS AGED 35 AND OLDER

British Columbia, 2000 - 2009



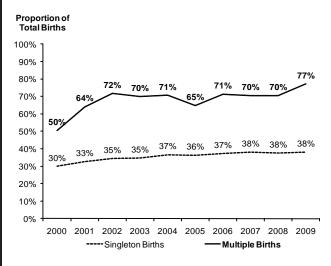
## PROPORTION OF SINGLETON AND MULTIPLE BIRTHS TO MOTHERS AGED 35 AND OLDER BIRTHED

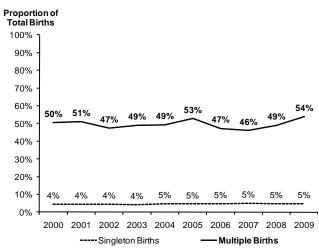
VIA CESAREAN SECTION
BRITISH COLUMBIA, 2000 - 2009

#### PROPORTION OF SINGLETON AND MULTIPLE BIRTHS

TO MOTHERS AGED 35 AND OLDER WITH

LOW BIRTH WEIGHT (<2500 GRAMS)
BRITISH COLUMBIA, 2000 - 2009





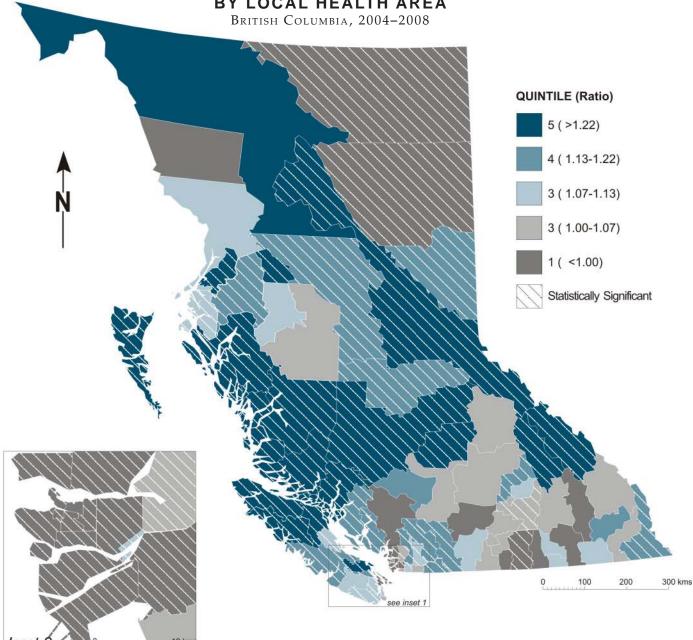
British Columbia, 2004–2008 and 2009

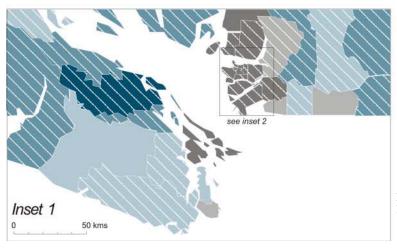
				2004	-2008		2009					
60		Observed				Total	Observed	Expected				Total
Local H	lealth Area	Births	Ratio	(p)	Percent	Live Births	Births	Births	Ratio	(p) P	ercent	Live Births
001	Fernie	262	1.14	*	39.1	670	60	57.5	1.04		36.1	166
002	Cranbrook	427	1.06		36.3	1,175	78	89.0	0.88		30.4	257
003 004	Kimberley Windermere	137 148	1.16 1.06		39.8 36.5	344 406	28 41	28.7 35.0	0.97 1.17		33.7 40.6	83 101
004	Windermere Creston	211	1.06		36.5	561	41	35.0 46.7	1.17		34.8	135
005	Kootenay Lake	49	0.93		31.8	154	10	7.6	1.31		45.5	22
007	Nelson	385	0.97		33.4	1,152	91	85.2	1.07		37.0	246
009	Castlegar	170	1.09		37.5	453	28	29.1	0.96		33.3	84
010 011	Arrow Lakes Trail	59 287	1.03 1.10		35.3 37.8	167 759	12 67	8.3 56.1	1.44 1.19		50.0 41.4	24 162
012	Grand Forks	101	0.88		30.3	333	24	18.0	1.33		46.2	52
013	Kettle Valley	27	0.60	*	20.8	130	2	4.2	0.48		16.7	12
014	Southern Okanagan	202	0.91		31.4	643	38	40.5	0.94		32.5	117
015	Penticton	573	1.06		36.5	1,569	112	115.6	0.97		33.5	334
016 017	Keremeos Princeton	65 50	1.06 1.08		36.3 37.0	179 135	16 7	13.5 7.6	1.19 0.92		41.0 31.8	39 22
018	Golden	155	1.30	*	44.8	346	22	19.0	1.16		40.0	55
019	Revelstoke	173	1.35	*	46.5	372	39	30.5	1.28		44.3	88
020	Salmon Arm	530	1.22	*	41.9	1,265	103	91.4	1.13		39.0	264
021 022	Armstrong - Spallumcheen Vernon	149 974	1.04 1.07	*	35.7 36.8	417 2,650	26 249	26.3 224.7	0.99 1.11		34.2 38.4	76 649
022	Central Okanagan	2,568	1.01		34.7	7,399	653	586.4	1.11	*	38.5	1,694
024	Kamloops	1,699	1.03		35.4	4,795	426	379.4	1.12	*	38.9	1,096
025	100 Mile House	215	1.23	*	42.4	507	48	38.1	1.26		43.6	110
026	North Thompson	82	1.05	*	36.0	228	16	15.2	1.05	*	36.4	44
027 028	Cariboo - Chilcotin Quesnel	663 486	1.34 1.16	*	46.0 39.9	1,442 1,217	150 123	97.6 89.3	1.54 1.38	*	53.2 47.7	282 258
028	Lillooet	100	1.16		39.8	251	18	12.8	1.41		48.6	37
030	South Cariboo	105	1.02		35.2	298	26	21.5	1.21		41.9	62
031	Merritt	198	0.99		33.9	584	60	45.0	1.33	*	46.2	130
032 033	Hope Chilliwack	150	1.19 1.21	*	40.8 41.4	368 4 811	19 443	23.9	0.80 1.18	*	27.5 40.9	69 1.083
033	Abbotsford	1,994 2,867	1.21		41.4 34.6	4,811 8,290	616	374.9 611.0	1.18		34.9	1,083 1,765
035	Langley	2,492	1.12	*	38.5	6,475	534	509.9	1.05		36.3	1,473
037	Delta	1,413	0.92	*	31.6	4,477	256	288.4	0.89		30.7	833
038	Richmond	2,262	0.81	*	27.7	8,154	473	619.3	0.76	*	26.4	1,789
040 041	New Westminster Burnaby	1,223 3,054	1.09 0.82	*	37.4 28.2	3,271 10,829	268 632	253.4 819.4	1.06 0.77	*	36.6 26.7	732 2,367
041	Maple Ridge	1,866	1.17	*	40.2	4,647	404	346.5	1.17	*	40.4	1,001
043	Coquitlam	3,737	1.06	*	36.4	10,280	812	785.5	1.03		35.8	2,269
044	North Vancouver	1,878	0.89	*	30.6	6,140	378	422.0	0.90	*	31.0	1,219
045	West Vancouver-Bowen Is.	395	0.81	*	27.9	1,417	76	87.9	0.86		29.9	254
046 047	Sunshine Coast Powell River	388 269	1.13 1.17	*	39.0 40.1	995 670	79 50	73.7 50.5	1.07 0.99		37.1 34.2	213 146
047	Howe Sound	719	0.96		33.1	2,170	157	163.0	0.96		33.3	471
049	Bella Coola Valley	116	1.42	*	48.9	237	15	10.7	1.40		48.4	31
050	Queen Charlotte	111	1.28	*	43.9	253	13	12.8	1.01		35.1	37
051	Snow Country	11 329	1.10 1.12	*	37.9 38.4	29 856	1 75	1.0	0.96		33.3 41.7	3
052 053	Prince Rupert Upper Skeena	158	1.12	*	38.4 49.2	321	33	62.3 27.0	1.20 1.22		41.7	180 78
054	Smithers	406	1.09		37.3	1,088	87	75.1	1.16		40.1	217
055	Burns Lake	159	1.06		36.3	438	30	34.3	0.88		30.3	99
056	Nechako	450	1.21	*	41.6	1,081	104	80.0	1.30	*	45.0	231
057 059	Prince George	2,301	1.23	*	42.4 40.8	5,431	478 147	392.2 116.3	1.22	*	42.2 43.8	1,133 336
060	Peace River South Peace River North	629 822	1.19 0.86	*	29.6	1,543 2,776	215	213.2	1.26 1.01		34.9	616
061	Greater Victoria	3,130	1.02		35.1	8,908	683	637.3	1.07		37.1	1,841
062	Sooke	1,229	1.10	*	37.7	3,259	311	262.7	1.18	*	41.0	759
063	Saanich	722	1.07		36.9	1,959	147	133.3	1.10		38.2	385
064 065	Gulf Islands Cowichan	146 1,016	0.98	*	33.8 38.8	432 2,620	32 197	28.4 188.0	1.13 1.05		39.0 36.3	82 543
066	Lake Cowichan	85	1.09		37.4	2,020	14	14.5	0.96		33.3	42
067	Ladysmith	293	1.14	*	39.1	749	57	48.5	1.18		40.7	140
068	Nanaimo	1,899	1.28	*	44.1	4,311	401	319.5	1.26	*	43.4	923
069 070	Qualicum Alberni	505 665	1.19 1.20	*	40.9 41.2	1,234 1,616	95 146	82.0 123.2	1.16 1.18	*	40.1 41.0	237 356
070	Courtenay	885	1.20	*	36.9	2,400	188	123.2	1.18		38.1	356 494
072	Campbell River	781	1.23	*	42.4	1,843	164	143.0	1.15		39.7	413
075	Mission	834	1.08	*	37.0	2,254	168	157.2	1.07		37.0	454
076	Agassiz - Harrison	204	1.22	*	41.9	487	39	33.9	1.15		39.8	98
077 078	Summerland Enderby	123 139	1.01 1.12		34.6 38.5	355 361	32 28	26.7 26.0	1.20 1.08		41.6 37.3	77 75
080	Kitimat	190	1.12	*	42.2	450	38	40.5	0.94		32.5	75 117
081	Fort Nelson	148	0.84	*	28.9	512	35	32.5	1.08		37.2	94
083	Central Coast	72	1.42	*	48.6	148	9	8.0	1.13		39.1	23
084	Vancouver Island West	57	1.38	*	47.5	120	9	8.3	1.08		37.5	24
085 087	Vancouver Island North Stikine	331 12	1.26 1.40	-4	43.3 48.0	765 25	67 4	55.0 3.5	1.22 1.16		42.1 40.0	159 10
088	Terrace	495	1.40	*	40.5	1,222	108	89.7	1.10		41.7	259
092	Nisga'a	79	1.43	*	49.1	161	15	13.8	1.08		37.5	40
094	Telegraph Creek	16	0.97		33.3	48	4	3.1	1.28		44.4	9
161	Vancouver - City Centre	1,404	0.92	*	31.6	4,438	353	367.3	0.96		33.3	1,061
162 163	Vancouver - Downtown E.side Vancouver - North East	773 1,492	0.97 0.79	*	33.5 27.1	2,308 5,499	205 312	192.5 381.5	1.07 0.82	*	36.9 28.3	556 1,102
164	Vancouver - Westside	1,659	0.79	*	29.5	5,631	328	388.1	0.85	*	29.3	1,102
165	Vancouver - Midtown	1,542	0.88	*	30.4	5,070	304	364.2	0.83	*	28.9	1,052
166	Vancouver - South	1,793	0.79	*	27.2	6,584	348	450.4	0.77	*	26.7	1,301
201 202	Surrey South Surrey/White Rock	7,109 956	0.87 1.03	*	29.9 35.5	23,763 2,691	1,520 170	1,794.9 183.5	0.85 0.93	•	29.3 32.1	5,185 530
202	PROVINCIAL TOTAL	<b>72,248</b>	1.03		35.5 <b>34.4</b>	2,691 <b>210,153</b>		183.5 <b>15,546.0</b>	1.00		34.6	44,908
		,				-,	-,	.,				,

Note: \*Statistical testing indicates that observed number of births with perinatal conditions is signficantly different from the expected  $(p<0.05, two\ tailed)$ . Ratio-observed over the expected. Percent of births is based on total live births and includes residents with unknown LHA and excludes non-residents.

#### Figure 34

# PERINATAL CONDITIONS IN LIVE BIRTHS BY LOCAL HEALTH AREA





Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of LHAs.

## **Death-related Statistics**



## Vital Statistics Information Box

## DEATHS BY DECEDENT'S COUNTRY OF BIRTH BRITISH COLUMBIA, 2009

Area	Province/Country	Deaths
Canada	Total	20,988
	British Columbia	8,466
	Saskatchewan	3,826
	Alberta	2,908
	Ontario	2,164
	Manitoba	2,018
	Quebec	741
	Nova Scotia	376
	New Brunswick	243
	Newfoundland & Labrador	144
	Prince Edward Island	55
	Yukon	22
	Northwest Territories & Nunavut	14
	Unknown Province	11
North and Central America	Total	787
	United States	683
	Other North and	104
	Central American Countries	
South America		85
Europe	Total	6,309
	England	1,935
	Other United Kingdom	839
	Germany	695
	Netherlands	411
	Italy	346
	Scandinavian Countries	344
	Poland	288
	Hungary	182
	Ireland	145
	Russia	145
	Other European Countries	979
Asia and the Middle East	Total	2,508
	China	1,019
	India	598
	Philippines	191
	Hong Kong	155
	Vietnam	91
	Pakistan	78
	Korea	68
	Iran	55 47
	Japan Other Asian and the	47
	Other Asian and the Middle Eastern Countries	206
Africa	Total	199
	South Africa	57
	Other African Countries	142
Oceania	Total	195
	Fiji	113
	Australia	48
	New Zealand	32
	Other Oceanic Countries	2
Unknown	Total	156
Total		31,227

Note: Non-residents are excluded.

## Death Introduction

In recognition of the importance of mortality statistics for health surveillance, planning, and research, a comprehensive array of tables is presented in this part of the report. Causes of death and/or age at death form the base of most tables because they are crucial components of health status for regional, national, and international comparisons. While other causes may have contributed to the death, the Underlying Cause of Death (UCOD) (see Glossary) is defined as the condition or injury that initiated the train of events leading directly to the death, and was used for these tabulations. All causes are identified according to the World Health Organization's International Statistical Classification of Diseases and Related Health Problems, Tenth Revision (ICD-10) which is a statistical coding system and the accepted international standard for mortality coding. The groups of codes used to define particular topics are noted in the tables.

#### **Deaths - General Indicators**

An overall view of the number of deaths by ICD-10 chapters by age group and gender is shown in Table 21. It provides a summary of the contribution of the 19 diagnostic categories to total deaths in BC in 2009. More detailed information for the same age groups appears in Appendix 2, which provides counts at the "3 character level". Although the causes shown in Appendix 2 ("Detailed Cause of Death by Gender and Age") are fairly specific, most ICD-10 codes consist of four or five characters, and are therefore even more detailed than the "roll ups" shown in Appendix 2. Neoplasms and diseases of the circulatory system accounted for most of the deaths in 2009 for both genders. Deaths in those two categories are further analysed in the following sections.



## Vital Statistics Information Box

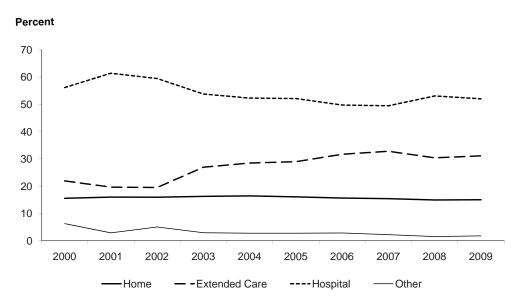
# Place of Death for Deaths From Natural Causes British Columbia, 2000 - 2009

Deaths from natural causes in 2000 to 2009 were examined to determine the place of death. The majority of these deaths to British Columbia residents occurred in hospital (53.8 % over the ten year period). 15.7 percent of deaths from natural causes occurred at home and 27.4 percent occurred in extended care facilities.

Place of Death	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2000-2009
Home	3,967	4,227	4,268	4,438	4,571	4,532	4,499	4,524	4,496	4,440	43,962
Extended Care	5,586	5,189	5,213	7,343	7,916	8,139	9,091	9,607	9,138	9,195	76,417
Hospital	14,303	16,179	15,876	14,641	14,525	14,639	14,268	14,484	15,945	15,356	150,216
Other and Unknown	1,612	775	1,353	813	776	788	826	671	476	536	8,626
Total	25,468	26,370	26,710	27,235	27,788	28,098	28,684	29,286	30,055	29,527	279,221

#### PERCENT OF DEATHS FROM NATURAL CAUSES BY PLACE OF DEATH

British Columbia, 2000 - 2009

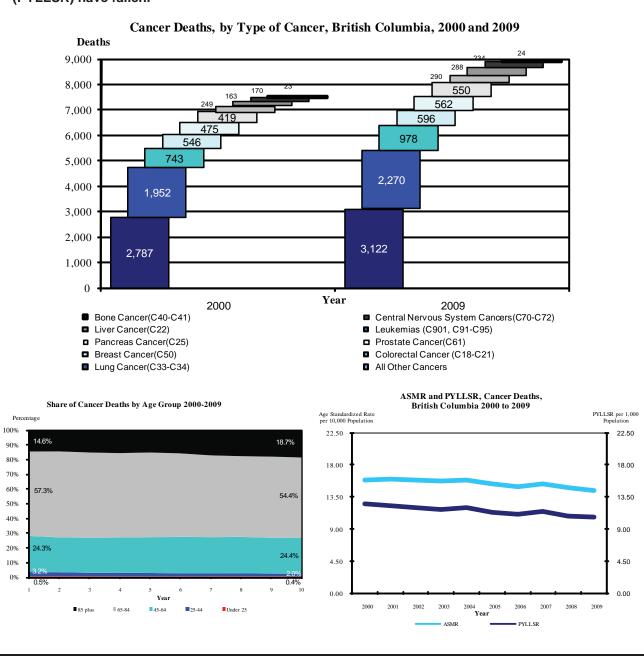


Note: The BC Vital Statistics Agency changed the way the place of death is recorded in 2008.

### Vital Statistics Information Box

#### CANCER DEATHS IN BRITISH COLUMBIA, 2000 TO 2009

More British Columbians succumbed to Cancer or Malignant Neoplasms (ICD Codes C00-C97) than any other cause in 2009. The following charts illustrate the trends and changes in deaths caused by Cancer from 2000 to 2009. As illustrated, the proportion of deaths caused by specific types of Cancer has not changed substantially from 2000 to 2009. However, those dying of Cancer in 2009 are older than they were in 2000, and larger shares of them are female. Both the Age Standardized Mortality Rate (ASMR) rate and Potential Years of Life Lost (PYLLSR) have fallen.



 $\begin{tabular}{ll} Table 21 \\ \begin{tabular}{ll} \textbf{CAUSES OF DEATH BY GENDER AND AGE} \\ \end{tabular}$ 

British Columbia, 2009

						А	ige Groi	ıp (in Ye	ars)					Total	
ICD-10 Cod	de(s) Causes of Death	Gender	<1	1–4	5–9	10–14	15–19	20–24	25-44	45–64	65–79	80+	Number	Percent	ASMR
A00-B99	Certain infectious and parasitic	M	2	-	1	-	-	-	22	117	71	107	320	2.0	1.12
	diseases	F T	1 3	1 1	1	-	1 1	1 1	8 30	45 162	49 120	143 250	249 569	1.6 1.8	0.66 0.87
C00-D48	Neoplasms	M	-	1	5	1	7	4	78	1,142	2,052	1,574	4,864	30.4	17.32
		F	1	4	1	1	4	8	107	1,050	1,530	1,535	4,241	27.8	12.62
D50-D89	Diseases of blood and blood-	T M	1	5	6	2	11	12	185 6	2,192	3,582 7	3,109	9,105 57	29.2	14.68
D30-D09	forming organs, certain immune	F	1	-	_	1	-	1	3	7	16	27	56	0.4	0.20
	mechanisms	Т	2	-	-	1	-	1	9	20	23	57	113	0.4	0.18
E00-E90	Endocrine/nutritional/metabolic	M	1	2	1	1	1	1	16	122	229	261	635	4.0	2.26
	diseases	F T	1	1 3	- 1	1 2	1	3 4	14 30	63 185	125 354	368 629	575 1,210	3.8 3.9	1.49 1.85
F00-F99	Mental and behavioural disorders		-	-	-	-	-	-	5	60	80	323	468	2.9	1.59
		F	-	-	-	-	-	-	7	27	73	625	732	4.8	1.54
G00-G99	Discours of the nervous system	T M	1	-	- 1	-	-	2	12 20	87 67	153 169	948 316	1,200 576	3.8	1.58 2.04
G00-G99	Diseases of the nervous system	F	-	2	-	1	1	3	13	70	137	508	735	4.8	1.79
		T	1	2	1	1	1	5	33	137	306	824	1,311	4.2	1.92
H00-H59	Diseases of the eye and adnexa	M	-	-	-	-	-	-	-	-	-	-	-	-	-
		F T	-	-	-	-	-	-	-	-	1 1	-	1	0.0	+
H60-H95	Diseases of the ear and mastoid	M	-	-	-	-	-	-	-	-	-	1	1	0.0	+
	process	F	-	-	-	-	-	-	-	-	-	-	-	-	-
100 100	Discourse of the sinculation.	T	-	-	-	-	-	-	- 74	-	4 000	1	1	0.0	45.00
100-199	Diseases of the circulatory system	M F	-	1	1	1	4	2	74 29	661 221	1,329 752	2,481 3,734	4,552 4,738	28.5 31.1	15.82 10.71
	System	T	-	1	1	1	4	2	103	882	2,081	6,215	9,290	29.7	13.12
J00-J99	Diseases of the respiratory	М	2	-	3	-	3	2	18	161	492	997	1,678	10.5	5.85
	system	F T	1	3 3	-	-	-	-	16	146	366	1,188	1,720	11.3	4.19
K00-K93	Diseases of the digestive	M	3	- -	3	-	3	2	34 23	307 195	858 184	2,185 241	3,398 644	10.9 4.0	4.88 2.23
	system	F	-	-	-	-	-	-	12	121	163	363	659	4.3	1.73
		T	-	-	-	-	-	1	35	316	347	604	1,303	4.2	1.97
L00-L99	Diseases of the skin and subcutaneous tissue	M F	-	-	-	-	-	- 1	1	1 4	7 9	14 27	23 41	0.1 0.3	0.08 0.11
	Subcutarieous tissue	T T	-	_	_	-	-	1	1	5	16	41	64	0.3	0.09
M00-M99	Diseases of the musculoskeletal	М	-	-	-	-	1	-	2	15	14	25	57	0.4	0.20
	system and connective tissue	F T	-	-	-	-	1 2	-	2	23 38	32 46	68	126	0.8	0.34
N00-N99	Diseases of the genitourinary	M	-	-	-	-	-	- 1	4	19	74	93 243	183 340	2.1	0.28 1.17
	system	F	-	-	-	-	-	-	2	15	83	282	382	2.5	0.89
		T	-	-	-	-	-	1	5	34	157	525	722	2.3	1.00
O00-O99	Complications of pregnancy, childbirth and the puerperium	M F	-	-	-	-	- 1	-	- 1	-	-	-	2	0.0	+
	childbirth and the paerpenant	T	_	-	_	-	1	-	1	-	_	_	2	0.0	+
P00-P96	Certain conditions originating	М	38	-	-	-	-	-	-	-	-	-	38	0.2	0.24
	in the perinatal period	F	47	-	-	1	-	-	-	1	-	-	49	0.3	0.33
Q00-Q99	Congenital anomalies	T M	85 9	- 1	1	1 -	-	3	8	1	7	4	87 43	0.3	0.28
200 000	go	F	15	1	-	-	1	2	3	9	2	2	35	0.2	0.18
		Т	24	2	1	-	1	5	11	19	9	6	78	0.2	0.19
R00-R99	Symptoms, signs and ill-defined conditions, unknown causes	M F	15 13	4 2	2	2 3	15 4	29 11	128 55	206 100	81 43	72 105	554 336	3.5 2.2	2.23 1.15
	conditions, unknown causes	T	28	6	2	5	19	40	183	306	43 124	177	890	2.2	1.15
V01-Y98	External causes	М	1	1	2	7	46	68	311	386	147	172	1,141	7.1	4.65
		F	2	1	1	1	7	22	114	121	84	206	559	3.7	1.86
	All causes	T M	3 <b>70</b>	2 <b>9</b>	3 <b>17</b>	8 <b>11</b>	53 <b>77</b>	90 <b>113</b>	425 <b>715</b>	507 <b>3,175</b>	231 <b>4,943</b>	378 <b>6,861</b>	1,700 <b>15,991</b>	5.4 <b>100.0</b>	3.23 <b>57.20</b>
	, iii daadad	F	81	16	2	10	20	52	386	2,023	3,465	9,181	15,236	100.0	39.76
	PROVINCIAL TOTAL	Т	151	25	19	21	97	165	1,101	5,198	8,408	16,042	31,227	100.0	47.82

Note: ASMR per 10,000 standard population (Canada 1991 Census). Total percentage may not add up to 100 due to rounding. + Denotes the number of cases is less than five. Non-residents are excluded. Total includes unknown gender. The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

#### **Leading Causes of Death**

Table 22 shows the 12 leading causes of death in BC. The two leftmost columns list the cause and the corresponding codes in ICD-10. For 2004-2008 period and the year 2009, the following four values are shown: number of deaths, the rank by number of deaths, the ASMR, and the rank by ASMR. The rows of the table are in the order of the 2009 ASMR rank.

For 2009, the 12 leading causes of death shown in Table 22 were responsible for 85.1 percent of all deaths. The top three causes of death were the same for both time periods, not only in the rank by number of deaths, but also in ASMR rank. They are malignant neoplasms, cardiovascular disease and, cerebrovascular diseases. For 2009, these three leading causes account for 57.0 percent of all deaths.

Figure 35 shows the number of deaths from Table 22 in 2009 graphically. It shows clearly the impact of the top three categories, which cause more than half of all deaths.

Table 23 shows the five leading causes of death in the seven different age groupings. The leading cause of death among those under 1 year of age (infant mortality), were certain conditions originating in the perinatal period with 56.3 percent of the deaths attributable to this cause. The second highest cause of infant deaths was congenital malformations and chromosome abnormalities. Males accounted for 46.4 percent of the deaths among those under 1 year of age. Deaths occurred in the first seven days after birth accounted for 59.6 percent of all infant deaths and 68.2 percent occurred within the first 28 days after birth (see Table 27). Infant mortality is examined in more detail in the next section.

Among children 1 to 14 years old, unintentional injuries were the most common cause of deaths for both genders combined; however, most of these were males. Malignant neoplasms and metabolic disorders claimed slightly more male than female lives. Other disorders of the nervous system claimed more females than males, whereas pneumonia/influenza claimed equal numbers of males and females.

By contrast, unintentional injuries were the leading cause of death, particularly for males, in the age groups 15-24 and 25-44. These causes include events such as Motor vehicle accidents, Falls, and Accidental poisonings. A more detailed list of the included causes by ICD codes appears in Appendix 2. Counts of death due to unintentional injuries, suicide, and homicide, (collectively referred to as "external causes of death") in the current year tend to underestimate the actual figures due to known delays in determining final causes of deaths. As a result, it can be anticipated that these numbers will be revised upwards in subsequent annual reports.

Between 15 and 24 years of age, suicide ranked second as the leading cause of death after unintentional injuries (see also Table 35). There were substantially fewer female deaths in this age group as shown in Table 23. In the age group between 25 and 44, malignant neoplasms were the second most common cause of death with female deaths outnumbering males and comprising the largest proportion of female mortality in this age group.

Malignant neoplasms were the leading cause of death for those between 45 and 64 years, accounting for 35.8 percent of deaths for males and 51.6 percent of deaths for females in this age group.

Between 65 and 84 years of age, 36.3 percent of the deaths were due to malignant neoplasms, followed by cardiovascular disease, which caused 19.8 percent of deaths. For those 85 years and older, the order of those two cause categories was reversed with cardiovascular disease causing 28.5 percent of deaths and malignant neoplasms causing 15.0 percent.

Malignant neoplasms were ranked in the first three leading causes of death in each age group for those over 1 year of age and was the overall leading cause of death in BC in 2004-2008, as well as in 2009 (see Table 22 and Figure 35). Notwithstanding, the ASMR for total malignant neoplasms and for lung cancer have declined over the last two decades (see Figures 19 and 20).

TABLE 22

TWELVE LEADING CAUSES OF DEATH
BRITISH COLUMBIA, 2004–2008 AND 2009

	ICD-10		2004-	-2008		2009				
Cause of Death	Code(s)	Number	Rank	ASMR	Rank	Number	Rank	ASMR	Rank	
Malignant neoplasms	C00-C97	42,961	1	15.22	1	8,914	1	14.39	1	
Cardiovascular disease	100-151	34,093	2	10.87	2	6,586	2	9.34	2	
Cerebrovascular diseases	160-169	11,475	3	3.59	3	2,299	3	3.17	3	
Chronic Pulmonary Disease	J40-J44	6,636	4	2.20	5	1,413	4	2.10	4	
Unintentional injuries Y40-Y86, Y	*	6,607	5	2.69	4	1,149	6	2.06	5	
Pneumonia/Influenza	J09-J181, J188, J189	6,579	6	2.00	6	1,292	5	1.77	6	
Diabetes mellitus	E10-E14	5,060	7	1.72	7	962	8	1.46	7	
Vascular/senile dementia	F01, F03	3,952	9	1.15	9	1,028	7	1.31	8	
Other diseases of digestive system	K00-K67, K80-K93	4,172	8	1.35	8	903	9	1.31	9	
Other disorders of the nervous system	G00-G25, G31-G99	3,179	11	1.12	10	635	12	1.02	10	
Other diseases of the respiratory system J20-J39	J00-J06, J182, ), J45-J98	3,164	12	1.03	12	693	11	1.02	11	
Urinary system diseases N990, N	N00-N39, 991, N995	3,433	10	1.07	11	699	10	0.97	12	
Other causes <sup>1</sup> TOTAL (All causes of	of death)	22,074 <b>153,385</b>		8.13 <b>52.14</b>		4,654 <b>31,227</b>		7.91 <b>47.82</b>		

Note: ¹Other causes includes undetermined and pending.

ASMR - per 10,000 standard population (Canada 1991 Census).

The ASMR in the current year determined the order in which the causes of death are presented.

Leading causes are ranked according to 2009 ASMR.

Non-residents are excluded. The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time.

Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

# $\label{eq:Figure 35} \textbf{TWELVE LEADING CAUSES OF DEATH}$

British Columbia, 2009

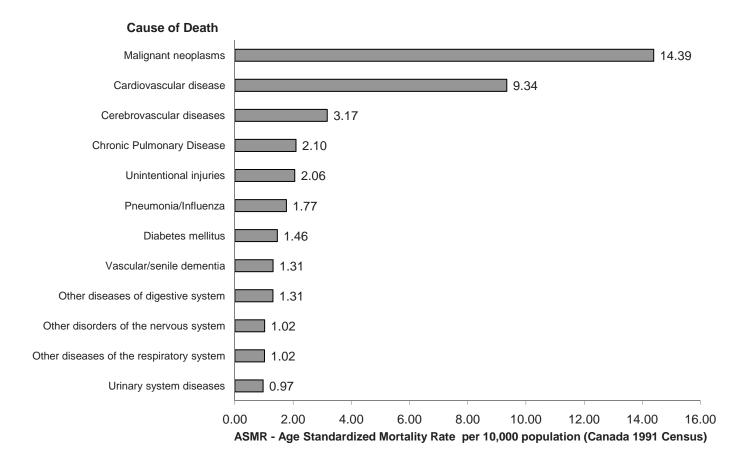


Table 23 LEADING CAUSES OF DEATH BY AGE AND GENDER

British Columbia, 2009

			lale	Fen		Tota	
Cause of Death	ICD-10 Code(s)	Number	Percent	Number	Percent	Number	Percent
Under 1 Year Old							
Certain conditions originati in the perinatal period	ng P00-P96	38	54.3	47	58.0	85	56.3
Congenital malformations a chromosome abnormalitie		9	12.9	15	18.5	24	15.9
3. Sudden infant death syndro	ome (SIDS) <sup>2</sup> R95	6	8.6	4	4.9	10	6.6
4. Certain infectious and paras	sitic diseases A00-B99	2	2.9	1	1.2	3	2.0
5. Pneumonia/Influenza	J09-J181, J188, J189	2	2.9	-	-	2	13
Other causes <sup>1</sup>		13	18.6	14	17.3	27	17.9
All causes		70	100.0	81	100.0	151	100.0
1-14 Years Old							
1. Unintentional injuries	V01-X59,	10	27.0	3	10.7	13	20.0
	Y40-Y86, Y880-Y883						
2. Malignant neoplasms	C00-C97	7	18.9	5	17.9	12	18.5
Metabolic disorders	E70-E89	4	10.8	1	3.6	5	7.7
4. Other disorders of the	G00-G25,	1	2.7	3	10.7	4	6.2
nervous system 5. Pneumonia/Influenza	G31-G99	2	5.4	2	7.1	4	6.2
5. Frieumonia/imiuenza	J09-J181 J188, J189		5.4	2	7.1	4	0.2
Other causes <sup>1</sup>	3100, 3109	13	35.1	14	50.0	27	41.5
All causes		37	100.0	28	100.0	65	100.0
15-24 Years Old							
Unintentional injuries	V01-X59,	61	32.1	21	29.2	82	31.3
,	Y40-Y86, Y880-Y883						
2. Suicide	X60-X84, Y870	35	18.4	6	8.3	41	15.6
3. Malignant neoplasms	C00-C97	11	5.8	11	15.3	22	8.4
4. Homicide	X85-Y09, Y871	16	8.4	2	2.9	18	6.9
<ol><li>Other disorders of the nervous system</li></ol>	G00-G25, G31-G99	2	1.1	4	5.6	6	2.3
Other causes <sup>1</sup>		65	34.2	28	38.9	93	35.5
All causes		190	100.0	72	100.0	262	100.0
25-44 Years Old							
1. Unintentional injuries	V01-X59, Y40-Y86, Y880-Y883	152	21.3	61	15.8	213	19.3
2. Malignant neoplasms	C00-C97	77	10.8	105	27.2	182	16.5
3. Suicide	X60-X84, Y870	126	17.6	41	10.6	167	15.2
4. Cardiovascular disease	100-151	55	7.7	21	5.4	76	6.9
5. Homicide	X85-Y09,Y871	27	3.8	8	2.1	35	3.2
Other causes <sup>1</sup>		278	38.9	150	38.9	428	38.9
All causes		715	100.0	386	100.0	1,101	100.0

(concluded on next page )

Note: Order of leading causes based on total deaths in the specified age group.

¹Other causes includes undetermined and pending. Total percentage may not add up to 100 due to rounding. Non-residents are excluded. The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

²The BC Coroners' Service classifies SIDS deaths as "SUDI" - please see glossary (under "SIDS") for explanation.

Table 23 – concluded

## LEADING CAUSES OF DEATH BY AGE AND GENDER

British Columbia, 2009

			ale	Fem		Tota	
Cause of Death	ICD-10 Code(s)	Number	Percent	Number	Percent	Number	Percent
45-64 Years Old							
1. Malignant neoplasms	C00-C97	1,136	35.8	1,043	51.6	2,179	41.9
2. Cardiovascular disease	100-151	544	17.1	149	7.4	693	13.3
3. Unintentional injuries	V01-X59, Y40-Y86, Y880-Y883	232	7.3	77	3.8	309	5.9
4. Diseases of liver	K70-K76	127	4.0	73	3.6	200	3.8
5. Suicide	X60-84, Y870	141	4.4	34	1.7	175	3.4
Other causes <sup>1</sup>		995	31.3	647	32.0	1,642	31.6
All causes		3,175	100.0	2,023	100.0	5,198	100.0
65-84 Years Old							
1. Malignant neoplasms	C00-C97	2,717	36.4	2,130	36.2	4,847	36.3
2. Cardiovascular disease	100-151	1,580	21.2	1,068	18.2	2,648	19.8
3. Cerebrovascular diseases	160-169	451	6.0	436	7.4	887	6.6
4. Chronic Pulmonary Disease	J40-J44	399	5.3	365	6.2	764	5.7
<ol><li>Diabetes mellitus</li></ol>	E10-E14	295	4.0	207	3.5	502	3.8
Other causes <sup>1</sup>		2,022	27.1	1,674	28.5	3,696	27.7
All causes		7,464	100.0	5,880	100.0	13,344	100.0
85 Years and Older							
Cardiovascular disease	100-151	1,185	27.3	1,976	29.2	3,161	28.5
2. Malignant neoplasms	C00-C97	819	18.9	852	12.6	1,671	15.0
3. Cerebrovascular diseases	160-169	410	9.4	836	12.4	1,246	11.2
4. Pneumonia/Influenza	J09-J181, J188, J189	293	6.8	450	6.7	743	6.7
5. Vascular/senile dementia	F01, F03	218	5.0	509	7.5	727	6.5
Other causes <sup>1</sup>		1,415	32.6	2,143	31.7	3,558	32.0
All causes		4,340	100.0	6,766	100.0	11,106	100.0

Notes for this table are on previous page.

#### **Infant Mortality**

BC had lower infant mortality rates than Canada as a whole from 1992 until 2007: the most recent year for which information on Canadian infant mortality rates is available (see Table 5). There were 151 infant deaths in BC in 2009 or 3.36 deaths per 1,000 live births. The rate 20 years ago was over 8 per 1,000 live births and that has progressively declined to the rates seen in the last few years.

Table 24 shows the number of infants who died in 2009 by birth weight and maternal age group. The first column has the mother's age group ranging from less than 20 years to 40 years or older. The infants' birth weights are grouped across the top of the table. Across the bottom and down the right side, the table shows row and column totals, percents, and rates per 1,000 live births. The difference in infant mortality rates across the 3 birth weight categories is quite distinct: For infants with birth weights of 2,500 grams or more, 1.16 per 1,000 live births in the same birth weight category died in their first year. In the 1,500-2,499 gram group the rate was 9.06 per 1,000 live births, and infants who weigh less than 1,500 grams had an infant mortality rate of 193.95 per 1,000 live births.

In the past decade there has been no significantly increasing or decreasing trend in the infant mortality rate.

Table 25 repeats the birth weight categories and general format shown in Table 24 but replaces maternal age groups with gestational age. Of the 151 infant deaths in 2009, there were 39 term births (37 to 41 weeks) with birth weights of 2,500 grams or more.

As expected, infant mortality tended to increase as birth weight and gestational age decrease. Of the infant deaths in the period, 46.4 percent were extremely premature (less than 28 weeks) with low birth weight (less than 2,500 grams), 63.6 percent were low birth weight, 67.5 percent were premature (less than 37 weeks) and 59.6 percent were both low birth weight and premature.

Table 26 shows infant mortality in each LHA of the infants' usual residence, for 2004-2008 and for the year 2009. The left two columns show the LHA number and name. The three columns for 2004-2008 show the number of infant deaths in the LHA (Observed Deaths), the ratio, and the rate of infant deaths per 1,000 live births. In this period, there were only 6 LHAs with statistically significant ratios (4 high and 2 low). For 2009, the table indicates the number of deaths in three age ranges: early neonatal (0 to 6 days), neonatal (0 to 27 days), and post-neonatal (28 to 364 days). The last two columns indicate the total number of infant deaths, and the infant death rate per 1,000 live births.

Causes of infant deaths and stillbirths are shown in Table 27. There were 151 infant deaths and 429 stillbirths in 2009. More than half (59.6 percent) of infant deaths in 2009 occurred in the early neonatal period, of those, 96.7 percent were due to congenital anomalies or perinatal conditions. In 2009, perinatal conditions were the cause of 56.3 percent of infant deaths and 97.7 percent of stillbirths.

Table 24

## **INFANT MORTALITY BY AGE OF MOTHER** AND BIRTH WEIGHT

British Columbia, 2009

Age of		Birth Weight	(in Grams)			Total	
Mother	<1500	1500-2499	2500+	N.S.	Number	Percent	Rate
<20	5	2	4	- '	11	7.3	7.70
20-24	14	1	7	-	22	14.6	3.55
25-29	19	8	17	1	45	29.8	3.55
30-34	24	2	13	2	41	27.2	2.84
35-39	7	4	5	-	16	10.6	1.92
40+	8	2	3	-	13	8.6	6.98
N.S.	-	-	-	3	3	2.0	
TOTAL	77	19	49	6	151	100.0	3.36
Percent	51.0	12.6	32.5	4.0	100.0		
Rate	193.95	9.06	1.16		3.36		

Note: Infant Mortality – Age at death less than one year. Rate per 1,000 live births in the specified age or birth weight group.

+Denotes the number of cases is less than five.

Total percentage may not add up to 100 due to rounding.

Non-residents are excluded.

N.S. - Not stated.

Table 25

### INFANT MORTALITY BY GESTATIONAL AGE **AND BIRTH WEIGHT**

British Columbia, 2009

Gestational Age		Birth Weight	,			Total	
(In Weeks)	<1500	1500–2499	2500+	N.S.	Number	Percent	Rate
<20	3	-	-	-	3	2.0	+
20-27	67	-	-	1	68	45.0	397.66
28-36	7	13	10	1	31	20.5	9.79
37-41	-	6	39	1	46	30.5	1.12
42+	-	-	-	-	-	-	-
N.S.	-	-	-	3	3	2.0	
TOTAL	77	19	49	6	151	100.0	3.36
Percent	51.0	12.6	32.5	4.0	100.0		
Rate	193.95	9.06	1.16		3.36		

Note: Infant Mortality - Age at death less than one year.

Rate per 1,000 live births in the gestational age or birth weight group.

Non-residents are excluded.

N.S. – Not stated.

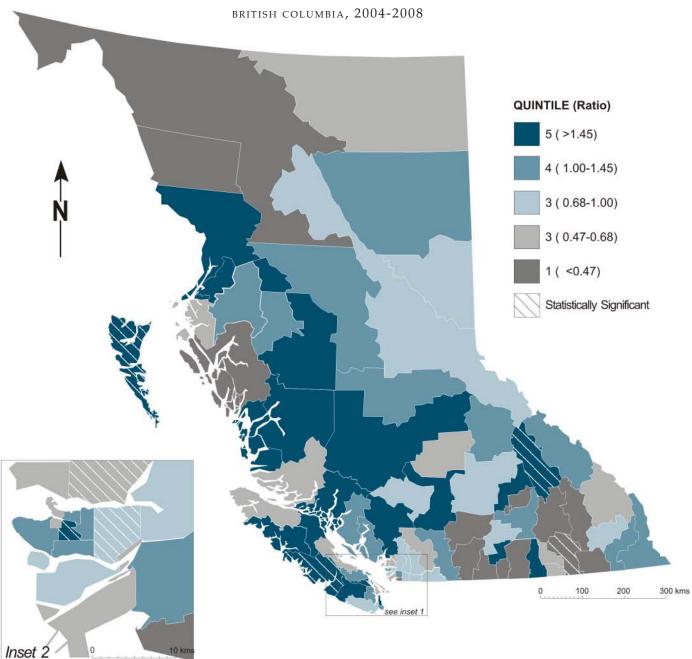
<sup>+</sup> Denotes the number of cases is less than five.

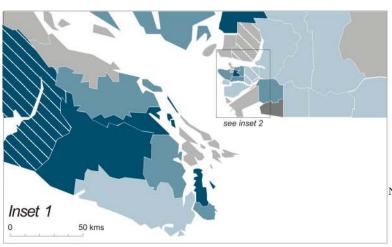
Total percentage may not add up to 100 due to rounding.

		200	04–2008		2009					
76		Observed				Age at Death (in		To	ital	
Local I	Health Area	Deaths	Ratio (p)	Rate	0–6	0–27	28-364	Number	Rate	
001	Fernie	3	1.11	4.48	1	1	-	1	6.02	
002 003	Cranbrook Kimberley	5 1	1.05 0.72	4.26 2.91	- 1	- 1	-	- 1	12.05	
003	Windermere	1	0.72	2.46	1	i	-	i	9.90	
005	Creston	-	-	-	-	-	1	1	7.41	
006	Kootenay Lake	-	-	-	-	-	-	-	4.07	
007 009	Nelson Castlegar	1	0.55	2.21	1	1 -	-	1 -	4.07	
010	Arrow Lakes	-	0.55		-	-	-	-	-	
011	Trail	2	0.65	2.64	-	-	-	-	-	
012	Grand Forks	4	2.97	12.01	-	-	-	-	-	
013 014	Kettle Valley Southern Okanagan	- 1	0.38	1.56	-	-	-	-	-	
014	Penticton	10	1.58	6.37	_	-	-	-		
016	Keremeos	-	-	-	-	-	-	-	-	
017	Princeton	-	-		-	-	-	-	-	
018 019	Golden Revelstoke	2 5	1.43 3.32 *	5.78 13.44	-	-	-	-	-	
020	Salmon Arm	9	1.76	7.11	_		-			
021	Armstrong - Spallumcheen	-	-	-	1	1	-	1	13.16	
022	Vernon	15	1.40	5.66	2	3	1	4	6.16	
023	Central Okanagan	29	0.97	3.92	2	2	-	2	1.18	
024 025	Kamloops 100 Mile House	17 1	0.88 0.49	3.55 1.97	2 1	2 1	1	3 1	2.74 9.09	
026	North Thompson	1	1.08	4.39	-	-	-	-	3.03	
027	Cariboo - Chilcotin	11	1.89	7.63	1	1	-	1	3.55	
028	Quesnel	6	1.22	4.93	-	-	1	1	3.88	
029 030	Lillooet South Cariboo	1 3	0.99 2.49	3.98 10.07	-	-	-	-	-	
030	Merritt	3 -	2.49	10.07	1	1	-	1	7.69	
032	Hope	2	1.34	5.43	-	-	1	1	14.49	
033	Chilliwack	16	0.82	3.33	-	2	-	2	1.85	
034	Abbotsford	32	0.95	3.86	3	3	2	5	2.83	
035 037	Langley Delta	21 12	0.80 0.66	3.24 2.68	2	2	1 -	3	2.04	
038	Richmond	27	0.82	3.31	2	2	1	3	1.68	
040	New Westminster	8	0.60	2.45	2	2	-	2	2.73	
041	Burnaby	30	0.68 *	2.77	6	7	2	9	3.80	
042 043	Maple Ridge Coquitlam	13 36	0.69 0.87	2.80 3.50	1 3	1 3	1	1 4	1.00 1.76	
043	North Vancouver	14	0.56 *	2.28	3	3	-	3	2.46	
045	West Vancouver-Bowen Is.	3	0.52	2.12	-	-	-	-	-	
046	Sunshine Coast	5	1.24	5.03	1	2	-	2	9.39	
047	Powell River	3	1.11	4.48	-	-	-	-	4.05	
048 049	Howe Sound Bella Coola Valley	13 3	1.48 3.13	5.99 12.66	1	1	1	2	4.25	
050	Queen Charlotte	4	3.91 +	15.81	_	-	-	-	_	
051	Snow Country	1	8.53	34.48	-	-	-	-	-	
052	Prince Rupert	2	0.58	2.34	2	2	-	2	11.11	
053 054	Upper Skeena Smithers	2 6	1.54 1.36	6.23 5.51	-	-	-	-	-	
054	Burns Lake	3	1.69	6.85	-	-	-	-		
056	Nechako	6	1.37	5.55	2	2	1	3	12.99	
057	Prince George	18	0.82	3.31	2	2	3	5	4.41	
059	Peace River South	6	0.96	3.89	2	4	-	4	11.90	
060 061	Peace River North Greater Victoria	13 42	1.16 1.17	4.68 4.71	1	1	2	1 3	1.62 1.63	
062	Sooke	12	0.91	3.68	1	1	1	2	2.64	
063	Saanich	14	1.77	7.15	-	-	-	-		
064	Gulf Islands	1	0.57	2.31	-		2	2	24.39	
065	Cowichan	14	1.32	5.34	1	2	2	4	7.37	
066 067	Lake Cowichan Ladysmith	2 6	2.18 1.98	8.81 8.01	-	-	1 -	1 -	23.81	
068	Nanaimo	19	1.09	4.41	3	3	4	7	7.58	
069	Qualicum	3	0.60	2.43	2	2	-	2	8.44	
070	Alberni	18	2.75 *	11.14	-	1	-	1	2.81	
071 072	Courtenay Campbell River	6 11	0.62 1.48	2.50 5.97	1 1	3 1	3 -	6 1	12.15 2.42	
072	Mission	8	0.88	3.55	1	2	- 1	3	6.61	
076	Agassiz - Harrison	1	0.51	2.05	-	-	-	-	-	
077	Summerland	1	0.70	2.82	-	-	-	-	-	
078	Enderby	-	-	-	-	-	-	-	-	
080 081	Kitimat Fort Nelson	1	0.48	1.95	-	-	-	-	-	
083	Central Coast	2	3.34	13.51	-	-	-	-	-	
084	Vancouver Island West	1	2.06	8.33	-	-	-	-	-	
085	Vancouver Island North	2	0.65	2.61	1	1	-	1	6.29	
087	Stikine	- 5	1.01	4.09	- 1	- 1	-	1	2 06	
088 092	Terrace Nisga'a	1	1.01 1.54	6.21	1 -	1 -	-	1 -	3.86	
094	Telegraph Creek	-	-	-	-	-	-	-	-	
161	Vancouver - City Centre	12	0.67	2.70	-	-	4	4	3.77	
162	Vancouver - Downtown E.side		1.07	4.33	1	1	-	1	1.80	
163 164	Vancouver - North East Vancouver - Westside	26 23	1.17 1.01	4.73 4.08	- 5	6	2	2 6	1.81 5.35	
165	Vancouver - Westside Vancouver - Midtown	31	1.51 *	6.11	7	7	1	8	7.60	
166	Vancouver - South	32	1.20	4.86	5	5	1	6	4.61	
201	Surrey	114	1.19	4.80	12	12	7	19	3.66	
202	South Surrey/White Rock PROVINCIAL TOTAL	5 <b>850</b>	0.46 <b>1.00</b>	1.86 <b>4.04</b>	90	103	48	151	3.36	
	. ACTINOIAL TOTAL	030	1.00	7.04	30	103	70	131	3.30	

Notes for this table follow the map.

FIGURE 36 **INFANT MORTALITY BY LOCAL HEALTH AREA** 





#### Notes to Table 26

Note: \*Statistical testing indicates that observed deaths are significantly different from the expected deaths (p<0.05, two tailed). +Denotes significance based on less than five deaths. Rate per 1,000 live births in the specified LHA. Ratio - observed over the expected deaths. Non- residents are excluded. Total includes residents with unknown LHA.

Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of L HAs.

Table 27

### SELECTED CAUSES OF INFANT DEATHS AND STILLBIRTHS

British Columbia, 2009

		Inf	ant Deat	hs – Age	Group (ii	n Days)	Stillb	irths
Cause of Death  Congenital anomalies	ICD-10 Code(s)	<7	7–27	28–364	Total	Rate 1	Number	Rate 2
- of the nervous system	Q00-Q07	-	-	-	-	-	2	0.44
- of the eye, ear, face & neck	Q10-Q18	-	-	-	-	-	-	-
- of the heart and circulatory system	Q20-Q28	4	1	6	11	2.45	5	1.10
- of the respiratory system	Q30-Q34	-	-	1	1	0.22	-	-
- of the digestive system	Q35-Q45	-	-	-	-	-	-	-
- of the genital organs	Q50-Q56	-	-	-	-	-	-	-
- of the urinary system	Q60-Q64	2	-	-	2	0.45	-	-
- of the musculoskeletal system	Q65-Q79	4	-	1	5	1.11	-	-
Other and multiple system syndromes	Q80-Q89	1	-	-	1	0.22	1	0.22
Chromosomal anomalies	Q90-Q99	2	1	1	4	0.89	-	-
Total deaths due to congenital anomalies	Q00-Q99	13	2	9	24	5.34	8	1.76
Perinatal conditions								
Infant affected by maternal factors	P00-P04	31	1	-	32	7.13	116	25.59
Premature/postmature and fetal growth disorders	P05-P08	19	2	1	22	4.90	16	3.53
Birth trauma	P10-P15	-	-	-	-	-	-	-
Respiratory and cardiovascular disorders	P20-P29	6	-	-	6	1.34	9	1.99
Infections specific to the perinatal period	P35-P39	3	1	-	4	0.89	1	0.22
Hemorrhage and hematological disorders	P50-P61	-	1	-	1	0.22	1	0.22
Transitory endocrine and metabolic disorders	P70-P74	-	-	-	-	-	-	-
Digestive system disorders of fetus and newborn	P75-P78	-	3	-	3	0.67	-	-
Other disorders originating in the perinatal period	P80-P94, P96	15	2	-	17	3.79	217	47.86
Fetal death of unknown cause	P95	-	-	-	-	-	59	13.01
Total deaths due to perinatal conditions	P00-P96	74	10	1	85	18.93	419	92.42
Pneumonia/influenza	J09-J18.1, J18.8-J18.9	-	-	2	2	0.45	-	-
Sudden infant death syndrome (SIDS) <sup>3</sup>	R95	-	-	10	10	2.23	-	-
Other causes <sup>3</sup>		3	1	26	30	6.68	2	0.44
TOTAL PERCENT		90 59.6	13 8.6	48 31.8	151 100.0	33.62	429	94.62

Note: ¹Rate per 10,000 live births.

<sup>2</sup>Rate per 10,000 total births (live births plus stillbirths).

#### **Deaths Due to HIV**

Mortality due to Human Immunodeficiency Virus (HIV) peaked in 1994 and has seen a general downward trend since then.

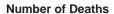
Table 28 shows the number of deaths due to HIV from 1994 to 2009 broken out by gender and six age groups. The percentage of the total deaths in each year is shown for each age group. At the bottom of the table are counts and percentages for the entire time period. Figure 37 shows that in the period from 2004-2009 most deaths due to HIV disease in BC occurred in individuals who were between 40 and 49 years of age.

<sup>&</sup>lt;sup>3</sup> Some of the infant deaths that were still under investigation (ICD-10 code R99) may later be identified as SIDS. The BC Coroners' Service classifies SIDS deaths as "SUDI" - please see glossary (under "SIDS") for explanation. Non-residents are excluded.

Table 29 shows that the yearly numbers of HIV deaths over the past ten years numbers have fluctuated with no significantly increasing or decreasing trend. The HSDA 32-Vancouver had the highest mortality rate (13.72 deaths per 100,000 population), from 1994 to 2009. In 2009, there were 31 deaths due to HIV in that area, far higher than any other HSDA.

## 

British Columbia, 2004-2009



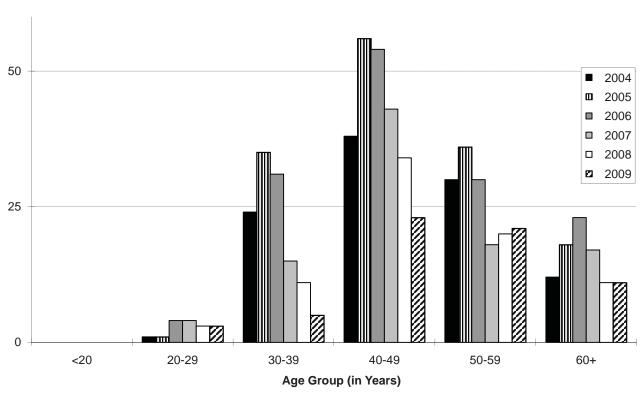


Table 28

## **DEATHS DUE TO HIV DISEASE BY GENDER AND AGE GROUP**

British Columbia, 1994-2009

	1	1		,			I	
Year of				Age at Death				
Death	Gender	<20	20–29	30–39	40–49	50–59	60+	Total
1994	M F	2	19 5	147 10	101 2	29 2	12 2	308 23
	<u> </u>	2	24	157	103	31	14	331
4005	Percent	0.6	7.3	47.4	31.1	9.4	4.2	100.0
1995	M F	-	17 6	116 7	103 4	31 1	9 1	276 19
	T	-	23	123	107	32	10	295
1006	Percent	-	7.8	41.7	36.3	10.8	3.4	100.0
1996	M F	3	9 4	107 6	73 6	34	10 1	236 17
	T	3	13	113	79	34	11	253
1997	Percent M	1.2	5.1 11	44.7 40	31.2 33	13.4 11	4.3 6	100.0 101
1007	F	-	2	7	4	1	2	16
	T	-	13	47	37	12 10.3	8	117
1998	Percent M	-	11.1 6	40.2 32	31.6 44	7	6.8 4	100.0 93
	F	-	4	8	3	1	1	17
	T Percent	-	10 9.1	40 36.4	47 42.7	8 7.3	5 4.5	110 100.0
1999	M	1	3	37	32	13	4	90
	F T	-	-	4	7	2	-	13
	Percent	1 1.0	3 2.9	41 39.8	39 37.9	15 14.6	4 3.9	103 100.0
2000	M	-	5	31	31	23	8	98
	F T	-	4 9	6 37	9 40	3 26	2 10	24 122
	Percent	-	7.4	30.3	32.8	21.3	8.2	100.0
2001	M F	-	4	30 8	33 4	19 3	9 1	91 20
	<u> </u>	-	4	38	37	22	10	111
0000	Percent	-	3.6	34.2	33.3	19.8	9.0	100.0
2002	M F	-	4 1	20 6	37 12	15 3	8	84 22
	T	-	5	26	49	18	8	106
2003	Percent M	-	4.7	24.5 34	46.2 26	17.0 32	7.5 10	100.0 104
2003	F	-	4	6	10	3	-	23 127
	T	-	6	40	36	35	10	127
2004	Percent M	-	4.7	31.5 17	28.3 30	27.6 29	7.9 10	100.0 86
	F	-	1	7	8	1	2	19
	T Percent	-	1 1.0	24 22.9	38 36.2	30 28.6	12 11.4	105 100.0
2005	M	-	1.0	27	43	31	18	120
	F T	-	- 1	8 35	13 56	5 36	- 18	26 146
	Percent	-	0.7	24.0	38.4	24.7	12.3	100.0
2006	M	-	2	22	43	27	20	114
	F T	-	2 4	9 31	11 54	3 30	3 23	28 142
	Percent	-	2.8	21.8	38.0	21.1	16.2	100.0
2007	M F	-	1 3	14 1	33 10	15 3	14 3	77 20
	<u> </u>	-	4	15	43	18	17	97
2000	Percent	-	4.1	15.5	44.3	18.6	17.5	100.0
2008	M F	-	1 2	7 4	28 6	14 6	10 1	60 19
	T	-	3	11	34	20	11	79
2009	Percent M	-	3.8	13.9 3	43.0 18	25.3 19	13.9 11	100.0 53
2000	F	-	1	2	5	2	-	10
	T Percent	-	3 4.8	5 7.9	23 36.5	21 33.3	11 17.5	63 100.0
1994-2009	M	4	83	<b>684</b>	708	349	17.5 163	1,991
	F	2	43	99	114	39	19	316
	T Percent	6 0.3	126 5.5	783 33.9	822 35.6	388 16.8	182 7.9	2,307 100.0

Note: HIV Disease – ICD-10 codes B20–B24.

Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

### Table 29

#### DEATHS DUE TO HIV DISEASE BY HEALTH SERVICE DELIVERY AREA

British Columbia, 1994-2009

	Health Service																	199	94–2009	9
	Delivery Area	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Number	Percent	Rate
11	East Kootenay	- '	1	-	2	-	-	-	1	-	1	-	1	-	-	- '	- '	6	0.3	0.49
12	Kootenay Boundary	1	3	2	-	1	1	-	-	2	-	1	-	2	-	2	-	15	0.7	1.20
13	Okanagan	6	9	7	2	4	2	3	3	3	6	2	5	11	1	2	2	68	2.9	1.36
14	Thompson Cariboo Shuswap	3	-	3	2	2	2	2	6	2	4	6	2	4	3	1	3	45	2.0	1.32
21	Fraser East	7	6	7	1	5	3	3	2	4	1	5	6	4	1	3	2	60	2.6	1.50
22	Fraser North	25	21	15	8	6	7	11	8	10	10	8	8	10	7	6	3	163	7.1	1.90
23	Fraser South	18	17	23	6	4	11	7	11	10	8	5	12	9	13	5	5	164	7.1	1.69
31	Richmond	6	4	4	5	2	2	1	1	-	1	2	3	1	1	2	1	36	1.6	1.31
32		203	182	146	66	65	53	73	60	62	74	50	78	67	42	27	31	1,279		13.72
33	North Shore/	15	12	11	7	5	5	3	3	2	6	3	7	5	5	7	2	98	4.2	2.32
	Coast Garibaldi			• •	·	Ŭ	ŭ	Ŭ		_		Ŭ	•	Ŭ	Ŭ	·	_			2.02
41	South Vancouver Island	28	17	21	10	10	13	7	9	3	8	9	9	17	11	11	6	189	8.2	3.43
42	Central Vancouver Island	13	14	6	4	3	4	8	4	4	4	5	6	3	6	4	5	93	4.0	2.42
43	North Vancouver Island	3	2	1	1	-	-	4	2	-	1	2	3	2	-	2	-	23	1.0	1.25
51	Northwest	-	2	1	-	-	-	-	-	-	-	1	2	-	2	3	1	12	0.5	0.92
52	Northern Interior	2	4	5	2	2	-	-	1	3	3	5	4	7	5	2	2	47	2.0	1.99
53	Northeast	1	1	-	-	1	-	-	-	1	-	1	-	-	-	1	-	6	0.3	0.59
	N.S.	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	-	3	0.1	
	PROVINCIAL TOTAL	331	295	253	117	110	103	122	111	106	127	105	146	142	97	79	63	2,307	100.0	3.53

Note: Health Service Delivery Area based on usual residence.

Rate per 100,000 population in specified area.

Total percentage may not add up to 100 due to rounding.

Non-residents are excluded. N.S. – Not stated.

#### **External Causes of Death**

Table 30 shows the number of deaths for males and females from "external causes" which include unintentional deaths, deaths due to suicide or homicide, and deaths where intent was undetermined. Also shown are ASMRs. These rates of death per 10,000 standard population are used to compare statistics from other time periods and other jurisdictions. The Glossary explains ASMR and the Methodology section gives an example of the calculation method.

During 2009, there were 1,700 deaths due to external causes or approximately 54 external cause deaths for each 1,000 deaths in BC (see Table 30).

#### Of the 1,700 deaths:

- 452 were suicides
- 252 were motor vehicle accidents
- 417 were unintentional falls
- 270 were unintentional poisonings
- 31 were accidental drownings
- 73 were homicides
- 119 were due to other external causes

Cauca of Dooth

Males accounted for 67.1 percent of deaths by external causes as shown in Table 30. The leading four causes of external deaths in males in 2009 (in ASMR rank order) were suicide (1.50), unintentional poisoning (0.79), motor vehicle accidents (0.77), and unintentional falls (0.72). For females, the leading four (in ASMR rank order) were accidental falls (0.49), suicide (0.40), accidental poisoning (0.35), and motor vehicle accidents (0.28).

Table 31 shows the allocation of external death causes according to the LHA of the deceased's usual residence. The highest ASMRs in 2009 are found in the following LHAs (with 5 or more deaths): Ladysmith (11.19), Armstrong - Spallumcheen (9.05), Cariboo - Chilcotin (9.04), Vancouver Island North (9.00), and Vancouver - Downtown Eastside (7.99).

Table 32 shows the number of deaths from suicide classified by month of occurrence and by gender. Percentages across months are also given. In 2009, there were about 3.8 times more male suicides than female suicides. The data for 2009 shows that April was the month with the fewest number of suicides (26) while July was the month with the highest number of suicides (51).

Coroners' investigations into "externally caused" deaths can be lengthy, resulting in delays in determining the final causes. For this reason, recent year counts and rates may be underestimated and therefore should be interpreted with caution.

 ${\tt Table~30} \\ {\tt EXTERNAL~CAUSES~OF~DEATH~BY~GENDER}$ 

Cause of Death	ICD-10 Code	Number	ASMR	Number	ASMR	Number	ASMR
Motor vehicle accidents	V02-V04, V09, V12-V14, V190-V196,	184	0.77	68	0.28	252	0.52
, ,	-V821, V823-V890, V892, V899, Y850						
Other transport accidents	V01, V05-V06, V10-V11, V15-V18,	16	0.07	3	0.01	19	0.04
V198-V199, V800-V802, V806-	V809, V812-V819, V822-V829, V891,						
V893, V91, V93-V99, Y859							
Accidental drowning	V90, V92, W65-W74	26	0.10	5	0.02	31	0.06
(inc water transport)							
Accidental falls	W00-W19	203	0.72	214	0.49	417	0.60
Accident caused by machinery	W24, W28-W31	1	-	-	-	1	-
Accidental firearm discharge	W32-W34	1	-	-	-	1	-
Exposure to smoke,	X00-X09	17	0.06	15	0.06	32	0.06
fire and flames							
Accidental poisoning	X40-X49	185	0.79	85	0.35	270	0.57
All other accidents	W20-W23, W25-W27, W35-W64,	73	0.27	46	0.13	119	0.20
W75-W99, X10-X39,	X50-X59, Y35-Y36, Y40-Y84, Y88						
Suicide	X60-X84, Y870	357	1.50	95	0.40	452	0.94
Homicide	X85-Y09, Y871	56	0.27	17	0.08	73	0.18
External events of	Y10-Y34, Y872	14	0.06	10	0.04	24	0.05
undetermined intent							
Sequelae of other	Y86, Y89	8	0.03	1	-	9	0.02
external causes							
TOTAL		1,141	4.65	559	1.86	1,700	3.23

Note: ASMR – Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census). Non-residents are excluded.

Local F	lealth Area	Motor Vehicle Accidents	Other Transport Accidents	Unintenti Poisoning	ional Falls	Fire/ Flames	Unintentional Drowing	Suicide	Homicide	Other	To Deaths	al ASMR
001 002 003	Fernie Cranbrook Kimberley	2 5 2	- - -	1 2 -	2 6 2	1 -	1 - -	3 5 1	- - -	1 1	9 20 6	5.37 5.97 6.43
004 005	Windermere Creston	2	-	-	3 4	-	-	1	- 1	1	6 8	4.04 4.08
006 007	Kootenay Lake Nelson	1	-	-	2 4	- 1	- 1	2	-	-	3 9	6.69 3.16
009	Castlegar	-	-	-	1	-	-	2	-	1	4	2.85
010 011	Arrow Lakes Trail	-	-	1	2	-	-	2 3	1 -	1 -	4 6	3.99 2.69
012 013	Grand Forks Kettle Valley	- 1	-	- 1	2	-	-	3 1	-	-	5 3	4.04 6.87
014	Southern Okanagan	2	-	-	6	-	-	3	-	2	13	3.25
015 016	Penticton Keremeos	3 1	-	7	13	1 -	-	5 -	1 -	1 1	31 2	5.33 2.43
017 018	Princeton Golden	-	-	-	-	-	-	- 1	-	-	- 1	1.58
019	Revelstoke	1	1	-	-	-	-	2	-	1	5	5.64
020 021	Salmon Arm Armstrong - Spallumcheen	6 2	2	2 1	4 1	-	1 -	2 2	-	1	17 7	4.55 9.05
022 023	Vernon Central Okanagan	8 15	1 2	5 11	6 23	- 1	4 1	9 11	1 2	3 4	37 70	4.07 2.96
024	Kamloops	9	2	8	10	1	1	13	1	8	53	4.03
025 026	100 Mile House North Thompson	6 2	-	-	2	-	1 -	1 -	1 -	1 -	12 3	6.08 5.07
027 028	Cariboo - Chilcotin Quesnel	3 2	-	2 1	4	- 1	- 1	10 2	1	6 3	26 10	9.04 4.28
029	Lillooet	-	-	-	1	-	-	-	-	-	1	1.74
030 031	South Cariboo Merritt	1 1	-	2 1	2	-	-	- 5	-	2 1	7 10	7.95 7.06
032	Hope	1	-	-	1	-	-	-	-	-	1	0.67
033 034	Chilliwack Abbotsford	6	1 -	5 9	9 5	1	2 1	6 11	7	5 1	30 41	2.98 2.92
035 037	Langley Delta	10 8	1	2 6	14 3	-	-	13 5	2	5 2	47 24	3.15 2.39
038	Richmond	2	-	2	8	-	-	7	4	3	26	1.13
040 041	New Westminster Burnaby	3	1	2 5	8 14	1 2	1 -	3 19	7	2 5	17 56	2.14 2.13
042 043	Maple Řidge Coquitlam	4 6	-	7 5	6 11	-	1	10 15	4	1 7	33 44	3.56 1.89
044	North Vancouver	2	-	6	8	2	1	14	2	2	37	2.17
045 046	West Vancouver-Bowen Is. Sunshine Coast	1 4	- 1	3 2	2 4	-	- 1	4	1 -	2	11 14	2.33 3.38
047	Powell River Howe Sound	2	-	1	-	-	2	5	1	2	13	6.14
048 049	Bella Coola Valley	3 -	-	3 -	1 -	2	1 -	4	-	5 1	19 1	6.05 3.96
050 051	Queen Charlotte Snow Country	-	-	-	2	-	-	-	-	-	2	3.92
052	Prince Rupert	-	-	1	3	-	-	3	-	-	7	5.74
053 054	Upper Skeena Smithers	1 4	-	-	1 4	-	-	1 2	-	1 -	4 10	7.12 6.57
055 056	Burns Lake Nechako	1 2	-	-	- 1	-	-	1	-	-	2	3.28 3.35
057	Prince George	10	1	6	10	1	-	16	1	1	46	5.10
059 060	Peace River South Peace River North	5 5	-	-	3	-	-	4 5	-	2 1	14 11	5.09 3.41
061 062	Greater Victoria Sooke	4	-	20 4	39 5	1 1	2	30 4	1	8 3	105 21	3.39 3.08
063	Saanich	4	-	3	14	-	-	6	-	3	30	3.86
064 065	Gulf Islands Cowichan	1 4	1 1	2	3 5	2	2	- 8	- 1	1	12 26	5.61 4.82
066	Lake Cowichan	1 3	-	1	1	1 4	-	- 7	-	- 1	4	4.87
067 068	Ladysmith Nanaimo	6	-	5	13	-	1	14	-	3	18 42	11.19 3.35
069 070	Qualicum Alberni	2 6	-	2 6	8 5	-	- 1	4 5	-	2	16 25	2.01 7.33
071	Courtenay	4	-	6	8	1	1	6	-	-	26	2.85
072 075	Campbell River Mission	2 2	-	4 3	4	-	-	7 3	- 1	1 1	18 13	3.65 2.87
076 077	Agassiz - Harrison Summerland	1	-	1	3	-	-	1	-	- 1	6 3	5.83 0.80
078	Enderby	1	-	-	-	-	-	1	-	-	2	4.51
080 081	Kitimat Fort Nelson	2	-	-	2	-	-	3	1 -	1 -	7 2	7.14 3.13
083	Central Coast	-	-	-	1	-	-	1 1	-	-	2 1	12.96
084 085	Vancouver Island West Vancouver Island North	1	-	2	2	-	-	3	1	1	10	7.75 9.00
087 088	Stikine Terrace	3	-	-	- 4	-	-	1 2	-	-	1 9	6.25 4.44
092	Nisga'a	-	-	-	-	-	-	2	-	1	3	18.65
094 161	Telegraph Creek Vancouver - City Centre	2	-	15	8	-	-	1 26	1	3	1 55	12.28 4.17
162 163	Vancouver - Downtown E.side Vancouver - North East	3 3	- 1	39 6	7 3	- 1	-	13 7	- 4	1 5	63 30	7.99 2.46
164	Vancouver - Westside	5	-	2	10	-	1	8	2	6	34	1.88
165 166	Vancouver - Midtown Vancouver - South	2 3	2	5 2	3 7	2	-	6 8	3 3	4 9	25 34	2.43 2.16
201 202	Surrey South Surrey/White Rock	19 7	- 1	25 3	24 9	2	2	27 7	15 1	7	121 29	3.14 2.59
202	PROVINCIAL TOTAL	252	19	270	417	32	31	452	73	154	1,700	3.23
	PERCENT Notes for table follow table	1 <b>4.8</b> 22.	1.1	15.9	24.5	1.9	1.8	26.6	4.3	9.1	100.0	

Table 32 SUICIDE DEATHS BY MONTH AND GENDER

British Columbia, 2009

	Ma	ale	Fen	nale	Total			
Month	Number	Percent	Number	Percent	Number	Percent		
January	33	9.2	4	4.2	37	8.2		
February	23	6.4	4	4.2	27	6.0		
March	35	9.8	9	9.5	44	9.7		
April	21	5.9	5	5.3	26	5.8		
May	35	9.8	13	13.7	48	10.6		
June	30	8.4	6	6.3	36	8.0		
July	41	11.5	10	10.5	51	11.3		
August	24	6.7	7	7.4	31	6.9		
September	25	7.0	13	13.7	38	8.4		
October	30	8.4	11	11.6	41	9.1		
November	29	8.1	7	7.4	36	8.0		
December	31	8.7	6	6.3	37	8.2		
TOTAL	357	100.0	95	100.0	452	100.0		

Note: Suicide Deaths - ICD-10 codes X60-X84, Y87.0. Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

#### Notes to Table 31

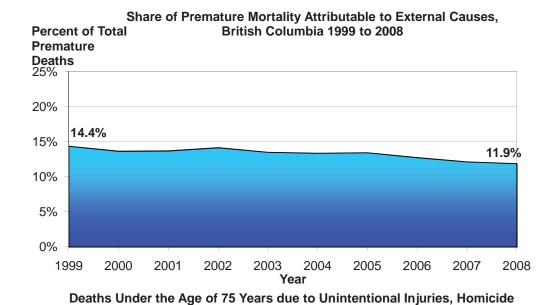
Note: Based on usual residence. ASMR - per 10,000 standard population (Canada 1991 Census). PERCENT - Provincial total for each cause as a percent of the Provincial total for all deaths from external causes. Other is comprised of accident caused by machinery, accidental firearm discharge, all other accidents, external event of undetermined intent, and sequelae of other external causes. Total includes residents with unknown LHA.

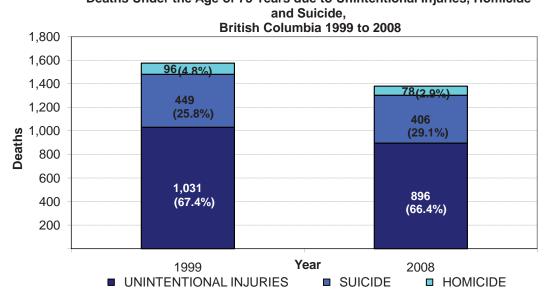


#### Vital Statistics Information Box

Premature (<75 years) External Causes of Death in British Columbia, 1999 to 2008

From 1999 to 2008, deaths among those under the age of 75 have accounted for just 38.5 percent of all deaths; however, 78.4 percent of deaths from external causes were in this age group. The total number of deaths attributable to external causes has fallen from 2,059 in 1999 to 1,843 in 2008, and among those under the age of 75, the number of deaths has fallen from 1,619 to 1,407. The share of premature deaths attributable to external causes has fallen from 14.4 percent in 1999 to 11.9 percent in 2008. Unintentional injuries account for the vast majority (63.7 percent in 2008) of deaths from external causes among those under the age of 75.





#### Mortality Due to All Causes of Death

Table 33 shows the number of deaths from all causes in each LHA for 2009 and the previous five-year period. The Standardized Mortality Ratio (SMR) columns compare the actual number of deaths in the LHA (observed) with the number that would be expected if the LHA had the same age-specific death rates as the whole province.

Table 33 also shows 95 percent confidence intervals for the SMR, which provides a measure of its variability. Near half (41) of LHAs had statistically significant ratios in 2009 (28 high and 13 low), 61 LHAs had statistically significant ratios (45 high and 16 low) in the period of 2004-2008, and 38 LHAs had statistically significant ratios (25 high and 13 low) in both 2009 and the previous five-year period.

In 2009, the LHAs with the five highest statistically significant SMRs were Central Coast (2.21), Snow Country (2.02), Lillooet (1.71), Fort Nelson (1.56), and Terrace (1.43).

Figure 38 shows the SMRs grouped into colour-coded quintiles. The map provides an immediately apparent view of the provincial variation of SMRs. Lower ratios were more frequently observed in the south and higher ratios in central and northern BC.

## Vital Statistics Information Box

## DEATHS AGED 65+ BY GENDER AND HEALTH SERVICE DELIVERY AREA

British Columbia, 2009

		Age at Death								1	%
Health Service Delivery Area	Gender	65-69	70-74	75-79	80-84	85-89	90-94	95-99	100+	Total	65+
11 East Kootenay	М	36	34	50	64	55	31	3	3	361	76.5%
	F	17	18	32	47	82	49	16	4	313	84.7%
12 Kootenay Boundary	М	42	41	44	61	51	27	15	0	363	77.4%
	F	20	28	39	73	63	60	23	5	363	85.7%
13 Okanagan	M	137	171	265	319	330	156	58	5	1,798	80.1%
	F	110	105	156	282	346	256	107	16	1,616	85.3%
14 Thompson Cariboo Shuswap	M	115	117	129	146	118	64	22	0	1,019	69.8%
	F	49	76	106	107	165	103	37	13		78.6%
21 Fraser East	М	100	97	142	157	166	89	25	6	,	72.8%
	F	62	85	118	172	169	149	84	9		83.4%
22 Fraser North	M	142	147	246	284	281	145	46	6	1,726	75.1%
	F	89	118	179	284	345	236	126	35	1,702	83.0%
23 Fraser South	M	164	178	262	284	352	189	58	9	,	73.5%
	F	130	158	223	347	424	304	154	39	-	83.2%
31 Richmond	M	29	49	58	70	71	36	14	1		76.8%
	F	21	29	55	67	86	81	32	7		84.0%
32 Vancouver	M	141	156	240	285	281	149	52	7	,	69.3%
	F	73	113	161	264	382	319	178	46	-	83.4%
33 North Shore/Coast Garibaldi	M	69	62	132	173	142	86	28	7		77.3%
	F	45	51	101	162	214	166	93	18		86.2%
41 South Vancouver Island	M	98	125	193	248	324	200	51	7	,	77.5%
	F	64	107	129	243	404	302	160	24	,	86.2%
42 Central Vancouver Island	M	107	118	188	228	196	99	28	4	,	75.4%
	F	64	87	124	190	201	174	83	14		81.8%
43 North Vancouver Island	M	50	57	69	70	56	33	8	0		68.6%
	F	28	31	50	76	84	53	19	5		79.4%
51 Northwest	M	39	29	38	32	26	8	2	0		59.8%
	F	9	20	24	20	25	13	10	0		66.9%
52 Northern Interior	M	53	52	68	79	57	19	6	1		65.3%
	F	30	39	48	62	60	37	12	4		73.7%
53 Northeast	M	19	23	21	21	21	9	0	1		60.2%
	F	10	10	24	19	15	18	7	1		69.3%
Provincial Total	M F	1,342 821	1,456 1,075	2,145 1,569	2,521 2,415	2,527 3,065	1,340 2,320	416 1,141	57 240	15,991 15,236	

Note: %65+ is the percentage of deaths aged 65 or older out of all deaths to residents of the specified area by gender. Provincial Total includes residents with unknown addresses.

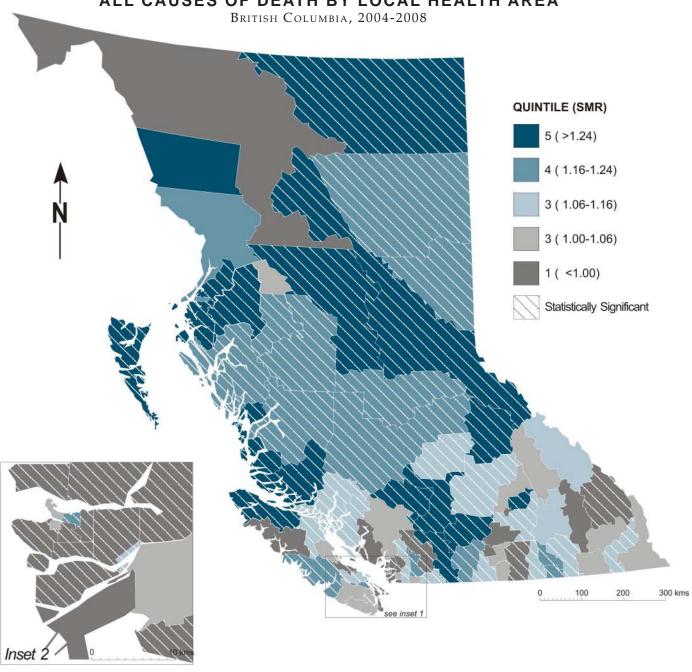
88

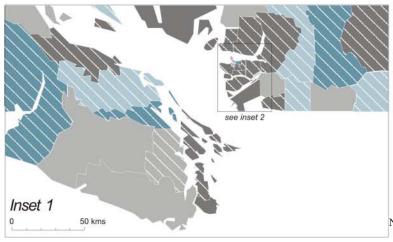
88		Observed			Observed	Expected	95% Confidence Interval				
Local I	Health Area	Deaths	SMR	(p)	Deaths	Deaths	SMR (p	) Lower	Upper		
001	Fernie	417	1.04		94	79.17	1.19	0.96	- 1.45		
002	Cranbrook	1,031	1.14	*	237	185.14	1.28	1.12	- 1.45		
003 004	Kimberley	383 252	1.00 0.77	*	96 47	75.30	1.27 0.70	1.03 0.52	- 1.56 - 0.94		
004	Windermere Creston	708	1.03		161	66.71 137.54	1.17	1.00	- 0.94		
006	Kootenay Lake	151	0.95		29	30.77	0.94	0.63	- 1.35		
007	Nelson	945	1.07	*	190	175.04	1.09	0.94	- 1.25		
009	Castlegar	632	1.21	*	107	101.13	1.06	0.87	- 1.28		
010 011	Arrow Lakes Trail	237 1,087	1.06 1.19	*	37 232	42.79 179.58	0.86 1.29	0.61 1.13	- 1.19 - 1.47		
011	Grand Forks	506	1.13	*	108	91.48	1.18	0.97	- 1.43		
013	Kettle Valley	121	0.83	*	23	32.54	0.71	0.45	- 1.06		
014	Southern Okanagan	1,291	1.04		263	248.11	1.06	0.94	- 1.20		
015 016	Penticton Keremeos	2,598 344	1.04 1.16	*	574 65	490.96 58.01	1.17 ¹ 1.12	1.08 0.86	- 1.27 - 1.43		
017	Princeton	284	1.17	*	59	51.59	1.14	0.87	- 1.43		
018	Golden	200	1.07		39	38.40	1.02	0.72	- 1.39		
019	Revelstoke	261	1.03		62	50.89	1.22	0.93	- 1.56		
020	Salmon Arm	1,617 376	1.01		342 82	325.95	1.05 0.97	0.94	- 1.17 - 1.21		
021 022	Armstrong - Spallumcheen Vernon	3,086	0.95 1.08	*	619	84.23 579.32	1.07	0.77 0.99	- 1.21		
023	Central Okanagan	7,301	0.98		1,551	1,532.71	1.01	0.96	- 1.06		
024	Kamloops	4,098	1.13	*	840	757.87	1.11	1.03	- 1.19		
025	100 Mile House	622	1.14	*	142	112.24	1.27	1.07	- 1.49		
026 027	North Thompson Cariboo - Chilcotin	193 886	1.39 1.23	*	35 206	27.90 149.57	1.25 1.38	0.87 1.20	- 1.74 - 1.58		
027	Quesnel	864	1.23	*	169	149.57	1.13	0.97	- 1.31		
029	Lillooet	204	1.44	*	48	28.00	1.71	1.26	- 2.27		
030	South Cariboo	356	1.27	*	77	58.11	1.33	1.05	- 1.66		
031 032	Merritt	558 524	1.38 1.45	*	102	80.23	1.27 1.42	1.04	- 1.54 - 1.72		
032	Hope Chilliwack	524 3,428	1.45 1.12	*	101 741	71.17 632.67	1.42	1.16 1.09	- 1.72 - 1.26		
034	Abbotsford	4,649	1.02		911	909.75	1.00	0.94	- 1.07		
035	Langley	4,400	1.06	*	890	883.19	1.01	0.94	- 1.08		
037	Delta	3,122	0.97	*	651	689.48	0.94	0.87	- 1.02		
038 040	Richmond New Westminster	4,482 2,576	0.75 1.16	*	877 481	1,242.48 432.44	0.71 <sup>1</sup>		- 0.75 - 1.22		
041	Burnaby	6,882	0.93	*	1,344	1,455.57	0.92	0.87	- 0.97		
042	Maple Ridge	2,734	1.11	*	598	514.34	1.16	1.07	- 1.26		
043	Coquitlam	4,683	0.91	*	1,005	1,087.31	0.92	0.87	- 0.98		
044 045	North Vancouver	4,134	0.91 0.84	*	793 467	929.47 554.40	0.85 0.84	0.79 0.77	- 0.91 - 0.92		
045	West Vancouver-Bowen Is. Sunshine Coast	2,367 1,355	0.84		272	280.88	0.84	0.77	- 0.92 - 1.09		
047	Powell River	974	1.08	*	211	182.95	1.15	1.00	- 1.32		
048	Howe Sound	589	1.02		121	122.06	0.99	0.82	- 1.18		
049 050	Bella Coola Valley	101	1.24	*	14	16.12	0.87	0.47	- 1.46 - 1.97		
050	Queen Charlotte Snow Country	161 16	1.37 1.22		34	24.13 1.98	1.41 2.02	0.98 0.54	- 1.97 - 5.18		
052	Prince Rupert	474	1.28	*	90	75.51	1.19	0.96	- 1.47		
053	Upper Skeena	127	1.05		23	24.14	0.95	0.60	- 1.43		
054	Smithers	440	1.17	*	86	79.66	1.08	0.86	- 1.33		
055 056	Burns Lake Nechako	272 523	1.19 1.40	*	60 101	45.58 79.98	1.32 <sup>3</sup> 1.26	1.00	- 1.69 - 1.53		
057	Prince George	2,739	1.24	*	579	462.47	1.25	1.15	- 1.36		
059	Peace River South	808	1.19	*	176	139.86	1.26	1.08	- 1.46		
060	Peace River North	727	1.19	*	142	124.88	1.14	0.96	- 1.34		
061 062	Greater Victoria Sooke	10,802 1,666	1.00 1.00		2,130 362	2,046.14 355.70	1.04 1.02	1.00 0.92	- 1.09 - 1.13		
063	Saanich	3,232	0.85	*	631	764.73	0.83	0.76	- 0.89		
064	Gulf Islands	679	0.78	*	147	174.59	0.84	0.71	- 0.99		
065	Cowichan	2,329	1.04	*	439	462.61	0.95	0.86	- 1.04		
066 067	Lake Cowichan Ladvsmith	220	1.04 1.16	*	39 247	43.77 181.30	0.89 1.36	0.63 1.20	- 1.22 - 1.54		
067	Ladysmith Nanaimo	1,051 4,472	1.16	*	875	857.29	1.36	0.95	- 1.54 - 1.09		
069	Qualicum	2,474	0.93	*	530	551.51	0.96	0.88	- 1.05		
070	Alberni	1,430	1.24	*	299	237.22	1.26	1.12	- 1.41		
071	Courtenay	2,535	1.00	*	532	536.71	0.99	0.91	- 1.08 - 1.29		
072 075	Campbell River Mission	1,461 1,391	1.14 1.22	*	318 261	274.25 231.18	1.16 <sup>3</sup>	1.04 1.00	- 1.29 - 1.27		
075	Agassiz - Harrison	314	0.87	*	77	67.35	1.13	0.90	- 1.43		
077	Summerland	696	0.96		133	145.10	0.92	0.77	- 1.09		
078	Enderby	407	1.26	*	68	64.60	1.05	0.82	- 1.33		
080 081	Kitimat Fort Nelson	290 93	1.17 1.31	*	70 23	53.01 14.74	1.32 ° 1.56	1.03 0.99	- 1.67 - 2.34		
083	Central Coast	59 59	1.92	*	12	5.43	2.21		- 2.34		
084	Vancouver Island West	60	0.92		13	11.65	1.12	0.59	- 1.91		
085	Vancouver Island North	404	1.60	*	73	52.79	1.38	1.08	- 1.74		
087	Stikine	22	0.86	*	5	4.90	1.02	0.33	- 2.38		
088 092	Terrace Nisga'a	625 73	1.29 1.90	*	147 10	102.88 8.15	1.43 ' 1.23	1.21 0.59	- 1.68 - 2.26		
094	Telegraph Creek	19	1.29		3	2.32	1.29	0.26	- 3.77		
161	Vancouver - City Centre	3,129	1.01		679	620.04	1.10	1.01	- 1.18		
162	Vancouver - Downtown E.side		1.22	*	470	392.10	1.20	1.09	- 1.31		
163 164	Vancouver - North East Vancouver - Westside	2,889 3,722	0.87 0.80	*	582 711	686.06 907.00	0.85 ° 0.78	0.78 0.73	- 0.92 - 0.84		
165	Vancouver - Midtown	2,323	0.80	*	454	502.65	0.76	0.73	- 0.64		
166	Vancouver - South	4,183	0.84	*	837	975.73	0.86	0.80	- 0.92		
201	Surrey	8,516	1.01	*	1,786	1,855.96	0.96	0.92	- 1.01		
202	South Surrey/White Rock PROVINCIAL TOTAL	4,307 <b>153,385</b>	0.93 <b>1.00</b>	*	847 <b>31,227</b>	954.17 <b>31,227.00</b>	0.89 <b>1.00</b>	0.83 <b>0.99</b>	- 0.95 - <b>1.01</b>		
	I NOVINGIAL TOTAL	100,000	1.00		31,221	31,227.00	1.00	0.33	- 1.01		

2004-2008

2009

FIGURE 38
ALL CAUSES OF DEATH BY LOCAL HEALTH AREA





Note: Refer to Figure 1 to clarify geographical location of LHAs.

#### **Potential Years of Life Lost**

Potential Years of Life Lost (PYLL) gives an indication of "premature" death by totalling the number of years British Columbians "lost" prior to age 75 years. For example, an infant death at the age of 6 months would have lost 74.5 years of life. The upper limit of 75 is used for both genders. PYLL indicates the importance of the various causes of premature death by giving more weight to deaths that occurred at younger ages than those that occurred later in life. Bear in mind that the PYLL is weighted according to age. Thus a death at a younger age contributes more to total PYLL than a death at an older age.

The tables and figures in this section portray the impact of premature mortality. The Glossary further defines PYLL. The precise calculation methods for the various indicators derived from PYLL are referenced in the tables in this section and are shown in the Methodology section.

Table 34 shows several PYLL based indicators for deaths of those under 75 years of age contrasted with total deaths and ASMR for all ages for various causes of death. The No. of Deaths column shows the number of persons under 75 years of age who have died due to each cause group. The Percent of PYLL column shows each disease category's proportion of the total PYLL for all causes. The Average PYLL column is the disease category's Total PYLL divided by number of deaths. The PYLLSR column is the rate of PYLL per 1,000 standard population. See PYLL Standardized Rate in the Glossary and the Methodology section for computation details.

Because PYLL focuses on premature mortality rather than on the simple fact of death, it is useful in assessing causes of death in terms of the extent to which each contributes to reduction in lifespan. In Table 34, the column labelled Average PYLL is helpful in exploring this effect.

Motor vehicle accidents (MVAs), which claim many young lives, have a high value for average PYLL at 34.9 years. Malignant neoplasms, on the other hand, although claiming many lives (4,526 under the age of 75) have a relatively low average PYLL at 12.7 years since malignant neoplasms tend to afflict older individuals more frequently.

Figure 39 allows one to compare the profiles of the two sides of the graph by directly and visually contrasting PYLLSR and ASMR for several major causes of death, where there are significant differences in the impact of the various causes of death on PYLL and overall death rate. The clearest contrast is for external causes of death: a relatively moderate ASMR but very high PYLLSR. This clearly shows the contribution of "external causes" to premature mortality.

In Table 35, causes of death in 2009 have been ranked according to the Total PYLL for all genders in four age groups. The central portion of the table indicates the number of deaths and number of years lost for males, females, and both genders. The PYLL column shows all the years lost in the age group due to each cause category. The PYLL % column indicates the percent of all PYLL in the age group due to each cause.

Most of the PYLL under 15 years were due to conditions originating in the perinatal period around birth (see Table 35). The majority of those deaths occurred less than 7 days after birth (see Table 27) and were more frequent among females than males (see Table 21).

MVAs had the highest PYLL in the age group of 15 to 24 year olds. Most of these deaths were to males, and therefore, the majority of the PYLL in this age group was attributable to males as shown in Table 35.

In the age group of 25 to 44 year olds, among females, malignant neoplasms were responsible for more than the number of PYLL as all the other major causes combined. Among males, suicides accounted for the largest number of PYLL, although PYLL due to MVA and malignant neoplasms were high among males as well. Note that male deaths due to MVA were responsible for a greater number of deaths than in the 15 to 24 year age group but fewer PYLL.

Malignant neoplasms accounted for the largest share of PYLL for both genders in the 45-74 year age group (see Table 35).

Figure 40 presents the PYLLSR values from Table 35, so the gender differences are immediately apparent.

Males in the last three age groups have a higher PYLL than females, although the standardized PYLL rates due to malignant neoplasms were similar in the two adult age groups.

External causes have been covered in a previous section, but Table 36 presents their geographic distribution in terms of PYLL index. These causes in general are considered to be more preventable than 'natural' causes of death and therefore attract attention because of the greater potential for their reduction.

Table 36 shows PYLL due to external causes of death by LHA for the period 2004 to 2008 and for the year 2009. It also displays the observed number of years of lost life in each LHA for both periods and, for 2009, the expected PYLL based on the age distribution in the LHA adjusted to the provincial age and gender specific rate.

During the period, nearly half (44) of the LHAs had PYLL Indices that indicated significant differences compared to BC as a whole. Of these, 32 were higher than expected.

#### Vital Statistics Information Box

#### Age at Death of the Oldest Male and Female

British Columbia, 1990-2009

Gender	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Male	113	105	111	111	109	108	108	106	109	108	109	104	104	107	106	107	105	107	106	105
Female	110	113	107	110	110	108	109	111	113	108	111	113	111	107	108	110	109	110	110	109

#### Table 34

## POTENTIAL YEARS OF LIFE LOST AND AGE STANDARDIZED MORTALITY RATES BY SELECTED CAUSES OF DEATH

British Columbia, 2009

		PYLL (Age Under 75 Years)						Mortality (All Ages)			
		No. of	Total	Percent	Average		No. of	Percent	I		
Cause of Death	ICD-10 Code(s)	Deaths	PYLL	of PYLL	PYLL	PYLLSR	Deaths	of Deaths	s ASMR		
Certain infectious and parasitic	A00-B99	258	4,965.5	2.6	19.2	1.01	569	1.8	0.87		
diseases											
- HIV disease	B20-B24	60	1,495.0	0.8	24.9	0.31	63	0.2	0.11		
Malignant neoplasms	C00-C97	4,526	57,400.0	30.3	12.7	10.65	8,914	28.5	14.39		
<ul> <li>Malignant neoplasm of trachea and lung</li> </ul>	C33-C34	1,255	13,227.5	7.0	10.5	2.32	2,270	7.3	3.75		
<ul> <li>Malignant neoplasm of female breast</li> </ul>	C500-C509	357	5,422.5	2.9	15.2	2.02	596	1.9	1.82		
<ul> <li>Malignant neoplasm of colon and rectum</li> </ul>	C18-C21	461	5,767.5	3.0	12.5	1.04	978	3.1	1.54		
Endocrine nutritional and metabolic diseases	E00-E89	429	6,093.0	3.2	14.2	1.25	1,210	3.9	1.85		
- Diabetes mellitus	E10-E14	323	3,537.5	1.9	11.0	0.64	962	3.1	1.46		
Diseases of the circulatory system	100-199	2,058	24,969.5	13.2	12.1	4.68	9,290	29.7	13.12		
- Ischemic heart diseases	120-125	1,147	13,187.5	7.0	11.5	2.34	4,362	14.0	6.26		
- Cerebrovascular diseases	160-169	381	4,197.5	2.2	11.0	0.79	2,299	7.4	3.17		
Diseases of the respiratory system	J00-J98	801	9,742.0	5.1	12.2	1.93	3,398	10.9	4.88		
Pneumonia/Influenza     (excluding hypostatic)	J09-J181, J188, J189	254	4,133.0	2.2	16.3	0.85	1,292	4.1	1.77		
- Chronic Pulmonary Disease	J40-J44	360	3,022.0	1.6	8.4	0.57	1,413	4.5	2.10		
Diseases of the digestive system	K00-K93	560	8,140.0	4.3	14.5	1.48	1,303	4.2	1.97		
- Chronic liver disease/cirrhosis K760-K761	K70, K73-74,	277	4,502.5	2.4	16.3	0.79	342	1.1	0.56		
Congenital malformations and chromosome abnormalities	Q00-Q99	67	3,144.5	1.7	46.9	0.95	78	0.2	0.19		
Certain conditions originating in the perinatal period	P00-P96	87	6,412.5	3.4	73.7	2.18	87	0.3	0.28		
External causes of death	V01-Y98	1,231	36,962.5	19.5	30.0	9.04	1,700	5.4	3.23		
- Motor vehicle accidents V12-V14, V190-V196, V20-V820-V821, V823-V890, V8		209	7,286.5	3.8	34.9	1.80	252	0.8	0.52		
- Suicide	X60-X84, Y870	423	12,647.5	6.7	29.9	3.10	452	1.4	0.94		
Other causes <sup>1</sup>	- ,	1,454	31,457.5	16.6	21.6	7.32	4,678	15.0	7.04		
All causes		'	189,287.0	100.0	16.5		31,227	100.0	47.82		
Note: PYLL – denotes the total number	er of years of life lost from						,				

Note: PYLL - denotes the total number of years of life lost from an established life expectancy (75 years).

PYLLSR – per 1,000 standard population (Canada 1991 Census).

ASMR – per 10,000 standard population (Canada 1991 Census).

Other causes includes undetermined and pending.

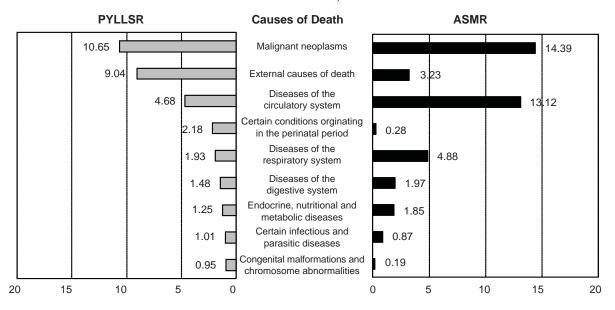
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

#### Figure 39

## POTENTIAL YEARS OF LIFE LOST AND AGE STANDARDIZED MORTALITY RATES BY SELECTED CAUSES OF DEATH

British Columbia, 2009



Note: PYLLSR - Potential Years of Life Lost Standardized Rate (age under 75 years) per 1,000 standard population. ASMR - Age Standardized Mortality Rate per 10,000 standard population.



### Table 35

## POTENTIAL YEARS OF LIFE LOST BY AGE GROUP AND MAJOR CAUSES OF DEATH (AGE UNDER 75 YEARS)

British Columbia, 2009

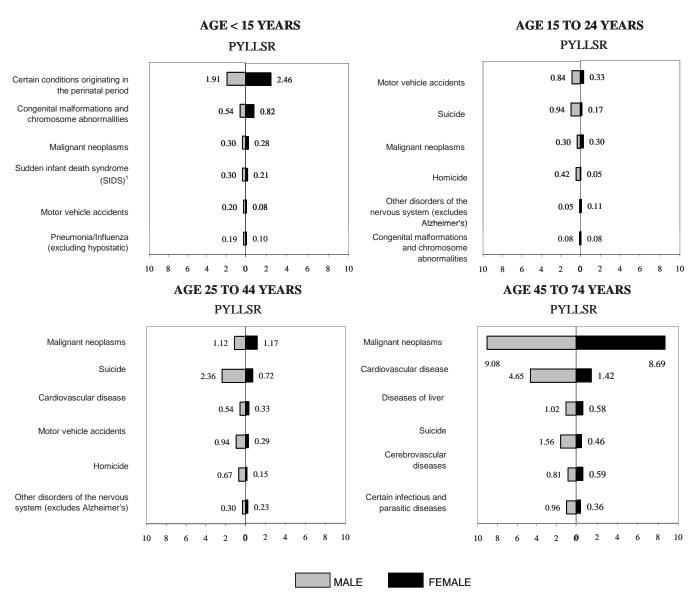
		Male					Fema	ale		Total			
Cause of Death	ICD-10 Code(s)	Deaths	PYLL	PYLL %	PYLLSR	Deaths	PYLL P	YLL %	PYLLSF	Deaths	PYLL P	/LL %	PYLLSR
Under 15 Years Old	. ,									'			,
Certain conditions origination in the perinatal period	ing P00-P96	38	2,831.0	36.8	1.91	48	3,564.0	44.8	2.46	86	6,395.0	40.9	2.18
Congenital malformations	Q00-Q99	11	810.0	10.5	0.54	16	1,189.5	15.0	0.82	27	1,999.5	12.8	0.68
and chromosome abnorma	alities												
Malignant neoplasms	C00-C97	7	472.0	6.1	0.30	6	420.5	5.3	0.28	13	892.5	5.7	0.29
Sudden infant death syndrome (SIDS) <sup>2</sup>	R95	6	447.0	5.8	0.30	4	298.0	3.8	0.21	10	745.0	4.8	0.25
Motor vehicle accidents V12-V14, V190-V196, V20	V02-V04, V09, 0-V79, V803-V805.	5	327.0	4.2	0.20	2	134.5	1.7	0.08	7	461.5	2.9	0.14
V820-V821, V823-V890, V													
Pneumonia/Influenza (exl. hypostatic)	J09-J181, J188, J189	4	284.0	3.7	0.19	2	144.0	1.8	0.10	6	428.0	2.7	0.14
Other causes <sup>1</sup>	3100, 3109	36	2,527.0	32.8	1.64	31	2,196.0	27.6	1.46	67	4,723.0	30.2	1.55
All causes		107	7,698.0		5.09	109	<b>7,946.5</b>	100.0	5.40	216	15,644.5		<b>5.24</b>
		107	1,000.0	100.0	0.00	100	7,040.0	100.0	0.40	2.0	10,044.0	100.0	0.24
15-24 Years Old Motor vehicle accidents	V02-V04, V09,	31	1,707.5	16.5	0.84	12	650.0	16.8	0.33	43	2,357.5	16.6	0.59
V12-V14, V190-V196, V20 V820-V821, V823-V890, V	)-V79, V803-V805,	31	1,707.5	10.5	0.04	12	000.0	10.0	0.55	40	2,007.0	10.0	0.55
Suicide	X60-X84, Y870	35	1,912.5	18.5	0.94	6	325.0	8.4	0.17	41	2,237.5	15.7	0.56
Malignant neoplasms	C00-C97	11	612.5	5.9	0.30	11	592.5	15.3	0.30	22	1,205.0	8.5	0.30
Homicide	X85-Y09, Y871	16	860.0	8.3	0.42	2	105.0	2.7	0.05	18	965.0	6.8	0.24
Other disorders of the G00	)-G25, G31-G99	2	105.0	1.0	0.05	4	215.0	5.5	0.11	6	320.0	2.2	0.08
nervous system (exl. Alzheim	ner's)												
Congenital malformations	and Q00-Q99	3	157.5	1.5	0.08	3	162.5	4.2	0.08	6	320.0	2.2	0.08
chromosome abnormalities	S												
Other causes <sup>1</sup>		92	5,005.0	48.3	2.46	34	1,830.0	47.2	0.94	126	6,835.0	48.0	1.71
All causes		190	10,360.0	100.0	5.10	72	3,880.0	100.0	1.99	262	14,240.0	100.0	3.57
25-44 Years Old													
Malignant neoplasms	C00-C97	77	2,862.5	10.4	1.12	105	3,782.5	26.0	1.17	182	6,645.0	15.8	1.14
Suicide	X60-X84, Y870	126	4,955.0	18.0	2.36	41	1,602.5	11.0	0.72	167	6,557.5	15.6	1.53
Cardiovascular disease	100-151	55	1,957.5	7.1	0.54	21	802.5	5.5	0.33	76	2,760.0	6.6	0.44
Motor vehicle accidents	V02-V04, V09,	49	1,962.5	7.1	0.94	18	700.0	4.8	0.29	67	2,662.5	6.3	0.61
V12-V14, V190-V196, V20													
V820-V821, V823-V890, V		07	4 407 5	4.0	0.07	0	005.0	0.4	0.45	0.5	4 470 5	0.5	0.44
Homicide	X85-Y09, Y871	27	1,167.5	4.2	0.67	8	305.0	2.1	0.15	35	1,472.5	3.5	0.41
Other disorders of the G00		20	770.0	2.8	0.30	13	492.5	3.4	0.23	33	1,262.5	3.0	0.27
nervous system (exl. Alzheim	ner's)	261	12 002 5	E0.2	E CE	100	6,850.0	17 1	2.72	E / 1	20,652.5	40.2	4 4 7
Other causes <sup>1</sup> All causes			13,802.5 <b>27,477.5</b>		5.65 <b>11.57</b>	180 <b>386</b>	14,535.0	47.1 <b>100.0</b>		541 <b>1,101</b>	42,012.5		4.17 <b>8.57</b>
45-74 Years Old		713	21,411.3	100.0	11.57	300	14,555.0	100.0	3.02	1,101	42,012.3	100.0	0.57
Malignant neoplasms	C00-C97	2 351	25,692.5	35.7	9.08	1 059	22,965.0	50.6	8 60	4,309	48,657.5	41.4	8.92
Cardiovascular disease	100-151		25,692.5 12,502.5		4.65	405	3,682.5	8.1		1,480	16,185.0	13.8	3.05
Diseases of liver	K70-K76	190	2,725.0	3.8	1.02	105	1,587.5	3.5		295	4,312.5	3.7	0.80
Suicide	X60-X84, Y870	174	3,060.0	4.3	1.56	41	792.5	1.7		215	3,852.5	3.3	1.01
Cerebrovascular diseases		211	2,037.5	2.8	0.81	150	1,440.0	3.2		361	3,477.5	3.0	0.70
Certain infectious and	A00-B99	154	2,460.0	3.4	0.96	67	912.5	2.0		221	3,372.5	2.9	0.66
parasitic diseases			, 22.0								.,		
Other causes <sup>1</sup>		1,818	23,485.0	32.6	10.06	1,193	14,047.5	30.9	5.91	3,011	37,532.5	32.0	7.99
All causes		5,973	71,962.5	100.0	28.12	3,919	45,427.5	100.0	18.00	9,892	117,390.0	100.0	23.10

Note: PYLL – Potential Years of Life Lost, denotes the total number of years of life lost from an established life expectancy (75 years). PYLLSR – PYLL Standardized Rate per 1,000 standard population (Canada 1991 Census). ¹Other causes includes undetermined and pending. Causes of death are ordered by total PYLL in the age group. Total percentage may not add up to 100 due to rounding. Non-residents are excluded. The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above. ²The BC Coroners' Service classifies SIDS deaths as "SUDI" - please see glossary (under "SIDS") for explanation.

#### Figure 40

## POTENTIAL YEARS OF LIFE LOST STANDARDIZED RATES BY AGE GROUP AND GENDER MAJOR CAUSES OF DEATH (AGE UNDER 75 YEARS)

British Columbia, 2009



Note: Causes of death are ordered by total deaths (Table 35). PYLLSR-PYLL Standardized Rate per 1,000 population.

¹The BC Coroners' Service classifies SIDS deaths as "SUDI" - please see glossary (under "SIDS") for explanation.

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Collegate   Dissarved   Dissarved   Dissarved   Dissarved   Expected   PPLL   SSY, Confidence   Limit   Collegate   Collegat	70		Oh	2004-2008	DV/L/	Oh	1 01	Even a stard		LOE0/ O-	د ام (۱	00   1::1
Semilar	1 1 1	Leadille A con-				1		•		I	riaen	
Carebook   Gel   1,920.0	Local F	lealth Area	Deaths	PYLL	Index (p)	Deaths	PYLL	PYLL	Index (p)	Lower		Upper
Milestern	001	Fernie	43	1,467.5	1.79 *	8	210.0	127.69	1.64	0.24	-	3.05
Dock   Windermère					1.01							
Consistent												
Code   Conference   Labor												
OCT   Nelson												
Castlegar												
Arrow Lakes												
Care											-	
1918   Kettle Valley    9   197.5   1.21   2   55.0   28.12   2.11   0.00   5.24   1.41   1.45   1	011	Trail	46		1.43					0.00	-	
0.01 Southern Okenagan					1.31							
Defended												
1016												
Princetion					1.00							
018   Revisible   14   520.0   1.25   1   42.5   66.25   0.64   0.00   -1.90   1.00							30.0		0.92	0.00	-	2.59
1919   Revelation   11   292.5   0.67   5   152.5   66.49   2.29   0.16   4.43						1	42.5		0.64	0.00	-	1.90
021 Amstrong - Spallumcheen   23   702.5   1.52   28   270.0   402.2   1.40   0.57   - 1.10   0.22   0.22   0.24   0.25			11								-	
Dec   Dec											-	
Cartinal Chanagam   202   9,1485   1,05   44   1,245,0   1,465,65   0,85   0,57   1,13												
Cardiops					1.23							
100 Mile House											-	
North Thompson											-	
Carthon Chillochin   94   2,935.0   2.02   23   687.5   220.522   3.16   1.67   1.46   6.02   1.92					1.31							
Queenal					5.51							
Decomposition   Color   Colo									0		-	
Merrit	029	Lillooet	20	535.0	2.35 *	-	-	35.24	-	-	-	-
Hope					2.02							
Chillwack						1	150.0		1.65			3.27
Abbotsford					2.70	1	-		-			-
1935   Langley   179   5,762,5   0,86   32   950,0   1,058,94   0,90   0,55   1,24												
Deffa												
388   Richmond   147												
New Westminster												
Maple Ridge												
Odd North Vancouver   137	041	Burnaby	243	7,477.5	0.61 *	40	1,155.0	1,968.28	0.59 *	0.38	-	0.80
North Vancouver   137												
West Vancouver-Bowen Is.					0.00				0.10			
OHE   Sunshine Coast   Sunshine Coast									0.00			
OAP   Powell River   46					0.00							
Howe Sound												
Degree Charlotte   14   390.0   1.47   1   32.5   22.72   1.43   0.00   - 4.23												
Description   Color   Color												
OS3											-	
053   Upper Skeena						1	-		-	-		-
OS5												
055   Burns Lake   22   735.0   1.74   2   50.0   64.77   0.77   0.00   2.08												
056   Nechako   51   1,782.5   2.14											-	
Description   Prince George   203   6,449.0   1.17   39   1,287.5   825.05   1.56   1.01   - 2.11											-	
New York												
Description   Section											_	
061         Graater Victoria         367         11,269.5         0.94         64         1,730.0         1,860.24         0.93         0.67         -         1,19           062         Sooke         89         2,822.5         0.83         18         555.0         566.09         0.98         0.45         -         1,51           063         Saanich         77         2,312.5         0.81         14         470.0         438.46         1,07         0.43         -         1,71           065         Cowichan         114         3,777.0         1.38         22         719.5         431.16         1.67         0.89         - 2.45           066         Lake Cowichan         8         255.0         0.82         3         82.5         50.47         1.63         0.00         - 3.84           067         Ladysmith         27         992.5         1.22         15         512.5         512.87         1.93         0.00         - 3.84           068         Nanaimo         169         5,576.0         1.10         23         752.5         807.69         0.93         0.53         - 1.31           070         Alberni         93         2,997.0								312.35			-	
063         Saanich         77         2_312_5         0.81         14         470_0         438_46         1.07         0.43         -         1.71           064         Gulf Islands         23         647.5         1.03         8         225_0         104_80         2.15         0.54         -         3.75           065         Cowichan         114         3,777_0         1.38         22         719.5         431.16         1.67         0.89         -         2.45           066         Lake Cowichan         8         255.0         0.82         3         82.5         50.47         1.63         0.00         -         3.84           067         Ladysmith         27         992.5         1.22         15         512.5         128.87         3.98         1.71         -         6.25           068         Nanaimo         169         5,576.0         1.10         23         752.5         807.69         0.93         0.53         1.33           071         Cualicum         68         2,130.0         1.20         9         20.25         289.58         0.70         0.08         0.26         1.33           071         Cumpbell River	061	Greater Victoria	367		0.94	64	1,730.0	1,860.24	0.93	0.67	-	
064         Gulf Islands         23         647.5         1.03         8         225.0         104.80         2.15         0.54         -         3.75           065         Cowichan         114         3,777.0         1.38         22         719.5         431.16         1.67         0.89         -         2.45           066         Lake Cowichan         8         255.0         0.82         3         82.5         50.47         1.63         0.00         -         3.84           067         Ladysmith         27         992.5         1.22         15         512.5         128.87         3.98         1.71         -         6.25           068         Nanaimo         169         5,576.0         1.10         23         752.5         807.69         0.93         0.53         -         1.33           070         Alberii         93         2,190.0         1.20         9         202.5         289.58         0.70         0.08         -         1.31           071         Cumpbell River         1123         3,3682.5         1.73         1         13         327.5         330.62         0.99         0.39         -         1.59           07											-	
065         Cowichan         114         3,777.0         1.38         * 22         719.5         431.16         1.67         0.89         - 2.45           066         Lake Cowichan         8         255.0         0.82         3         82.5         50.47         1.63         0.00         - 3.84           067         Ladysmith         27         992.5         1.22         15         512.5         128.87         3.98         1.71         - 6.25           068         Nanaimo         169         5,576.0         1.10         23         752.5         807.69         0.93         0.53         - 1.33           070         Alberni         93         2,997.0         1.87         18         540.0         246.01         2.20         1.05         - 3.34           071         Courtenay         112         3,137.0         1.12         19         422.5         473.69         0.89         0.41         - 1.37           072         Campbell River         123         3,682.5         1.73         13         327.5         330.62         0.99         0.39         1.59           075         Mission         88         2,985.0         1.30         11         292.5 </td <td></td>												
066         Lake Cowichan         8         255.0         0.82         3         82.5         50.47         1.63         0.00         - 3.84           067         Ladysmith         27         992.5         1.22         15         512.5         128.87         3.98         1.71         - 6.25           068         Nanaimo         169         5,576.0         1.10         23         752.5         807.69         0.93         0.53         - 1.33           069         Qualicum         68         2,130.0         1.20         9         202.5         289.58         0.70         0.08         - 1.31           070         Alberni         93         2,997.0         1.87         * 18         540.0         246.01         2.20         * 1.05         3.34           071         Courtenay         112         3,317.0         1.12         19         422.5         473.69         0.89         0.41         - 1.37           072         Campbell River         123         3,682.5         1.73         * 13         327.5         330.62         0.99         0.39         1.19         0.00         2.13         * 11         292.5         364.30         0.80         0.26         -												
067         Ladysmith         27         992.5         1.22         15         512.5         128.87         3.98         *         1.71         -         6.25           068         Nanaimo         169         5,576.0         1.10         23         752.5         807.69         0.93         0.53         -         1.33           069         Qualicum         68         2,130.0         1.20         9         202.5         289.58         0.70         0.08         -         1.31           070         Alberni         93         2,997.0         1.87         *         18         540.0         246.01         2.20         *         1.05         -         3.34           071         Courtenay         112         3,317.0         1.12         19         422.5         473.69         0.89         0.41         -         1.37           072         Campbell River         123         3,682.5         1.73         *         13         327.5         330.62         0.99         0.39         1.59           075         Mission         88         2,985.0         1.30         *         11         292.5         364.30         0.80         0.26         1.35 <td></td>												
068         Nanaimo         169         5,576.0         1.10         23         752.5         807.69         0.93         0.53         - 1.33           069         Qualicum         68         2,130.0         1.20         9         202.5         289.58         0.70         0.08         - 1.31           070         Alberni         93         2,997.0         1.87         18         540.0         246.01         2.20         1.05         3.34           071         Courtenay         112         3,317.0         1.12         19         422.5         473.69         0.89         0.41         - 1.37           072         Campbell River         123         3,682.5         1,73         13         327.5         330.62         0.99         0.39         - 1.59           075         Mission         88         2,985.0         1.30         11         292.5         364.30         0.80         0.26         - 1.35           076         Agassiz - Harrison         24         990.0         2.29         4         115.0         67.31         1.71         0.00         - 1.35           076         Agassiz - Harrison         24         990.0         2.29         4												
069 Oualicum         68 Death of the control of t												
070         Alberni         93         2,997.0         1.87         *         18         540.0         246.01         2.20         *         1.05         -         3.34           071         Courtenay         112         3,317.0         1.12         19         422.5         473.69         0.89         0.41         -         1.37           072         Campbell River         123         3,682.5         1.73         *         11         292.5         364.30         0.80         0.26         -         1.35           075         Mission         88         2,985.0         1.30         *         11         292.5         364.30         0.80         0.26         -         1.35           076         Agassiz - Harrison         24         990.0         2.29         *         4         115.0         67.31         1.71         0.00         -         3.70           077         Summerland         17         602.5         1.21         -         -         77.57         -         -         -         -         -         -         -         1.35           078         Enderby         22         690.0         1.91         *         2												
072         Campbell River         123         3,682.5         1.73         *         13         327.5         330.62         0.99         0.39         -         1.59           075         Mission         88         2,985.0         1.30         *         11         292.5         364.30         0.80         0.26         -         1.35           076         Agassiz - Harrison         24         990.0         2.29         *         4         115.0         67.31         1.71         0.00         -         3.70           077         Summerland         17         602.5         1.21         -         -         77.57         -			93	2,997.0		18	540.0	246.01	2.20 *	1.05	-	3.34
075         Mission         88         2,985.0         1.30         *         11         292.5         364.30         0.80         0.26         -         1.35           076         Agassiz - Harrison         24         990.0         2.29         *         4         115.0         67.31         1.71         0.00         -         3.70           077         Summerland         17         602.5         1.21         -         -         77.57         -         1.35         -         1.21         -         -         -         -         -         -         -	071		112	3,317.0	1.12	19	422.5	473.69	0.89			1.37
076         Agassiz - Harrison         24         990.0         2.29         *         4         115.0         67.31         1.71         0.00         -         3.70           077         Summerland         17         602.5         1.21         -         -         77.57         - <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
077         Summerland         17         602.5         1.21         -         -         77.57         -         -         -           078         Enderby         22         690.0         1.91         *         2         105.0         56.10         1.87         0.00         -         4.51           080         Kitimat         18         455.0         0.77         7         217.5         86.54         2.51         0.40         -         4.63           081         Fort Nelson         17         667.5         1.65         2         95.0         57.14         1.66         0.00         -         3.97           083         Central Coast         4         165.0         1.87         2         55.0         12.37         4.44         0.00         -         10.71         084         Vancouver Island West         9         242.5         1.95         1         37.5         19.29         1.94         0.00         -         5.75         085         Vancouver Island Worth         50         1,747.0         2.50         *         8         220.0         102.35         2.15         0.56         -         3.73         087         Stikine         4         110.0 <td></td>												
078         Enderby         22         690.0         1.91         *         2         105.0         56.10         1.87         0.00         -         4.51           080         Kitimat         18         455.0         0.77         7         217.5         86.54         2.51         0.40         -         4.63           081         Fort Nelson         17         667.5         1.65         2         95.0         57.14         1.66         0.00         -         3.97           083         Central Coast         4         165.0         1.87         2         55.0         12.37         4.44         0.00         -         10.71           084         Vancouver Island West         9         242.5         1.95         1         37.5         19.29         1.94         0.00         -         5.75           085         Vancouver Island North         50         1,747.0         2.50         *         8         220.0         102.35         2.15         0.56         -         3.73           087         Stikine         4         110.0         2.02         1         7.5         8.06         0.93         0.00         -         2.75						1	115.0		1./1			3.70
080         Kitimat         18         455.0         0.77         7         217.5         86.54         2.51         0.40         -         4.63           081         Fort Nelson         17         667.5         1.65         2         95.0         57.14         1.66         0.00         -         3.97           083         Central Coast         4         165.0         1.87         2         55.0         12.37         4.44         0.00         -         10.71           084         Vancouver Island West         9         242.5         1.95         1         37.5         19.29         1.94         0.00         -         5.75           085         Vancouver Island North         50         1,747.0         2.50         *         8         220.0         102.35         2.15         0.56         -         3.73           087         Stikine         4         110.0         2.02         1         7.5         8.06         0.93         0.00         -         2.75           085         Varicular State         46         1,607.0         1.48         *         5         157.5         164.79         0.96         0.10         -         1.81						1	105 O		1 87			4 51
081         Fort Nelson         17         667.5         1.65         2         95.0         57.14         1.66         0.00         -         3.97           083         Central Coast         4         165.0         1.87         2         55.0         12.37         4.44         0.00         -         10.71           084         Vancouver Island West         9         242.5         1.95         1         37.5         19.29         1.94         0.00         -         5.75           085         Vancouver Island North         50         1,747.0         2.50         *         8         220.0         102.35         2.15         0.56         -         3.73           087         Stikine         4         110.0         2.02         1         7.5         8.06         0.93         0.00         -         2.75           088         Terrace         46         1,607.0         1.48         *         5         157.5         164.79         0.96         0.10         -         1.81           092         Nisga'a         12         470.0         4.29         *         3         157.5         164.79         0.96         0.10         -         1.81												
083         Central Coast Vancouver Island West         4         165.0         1.87         2         55.0         12.37         4.44         0.00         -         10.71           084         Vancouver Island West         9         242.5         1.95         1         37.5         19.29         1.94         0.00         -         5.75           085         Vancouver Island North         50         1,747.0         2.50         *         8         220.0         102.35         2.15         0.56         -         3.73           087         Stikine         4         110.0         2.02         1         7.5         8.06         0.93         0.00         -         2.75           088         Terrace         46         1,607.0         1.48         *         5         157.5         164.79         0.96         0.10         -         1.81           092         Nisga'a         12         470.0         4.29         *         3         157.5         164.79         0.96         0.10         -         1.81           094         Telegraph Creek         6         270.0         6.70         *         1         57.5         6.10         9.42         0.00 <td></td>												
084         Vancouver Island West         9         242.5         1.95         1         37.5         19.29         1.94         0.00         -         5.75           085         Vancouver Island North         50         1,747.0         2.50         *         8         220.0         102.35         2.15         0.56         -         3.73           087         Stikine         4         110.0         2.02         1         7.5         8.06         0.93         0.00         -         2.75           088         Terrace         46         1,607.0         1.48         *         5         157.5         164.79         0.96         0.10         -         1.81           092         Nisga'a         12         470.0         4.29         *         3         157.5         15.86         9.93         0.00         -         21.20           094         Telegraph Creek         6         270.0         6.70         *         1         57.5         6.10         9.42         0.00         -         27.90           161         Vancouver - City Centre         193         5,777.5         0.74         *         51         1,362.5         1,290.38         1.06			4									
087         Stikine         4         110.0         2.02         1         7.5         8.06         0.93         0.00         -         2.75           088         Terrace         46         1,607.0         1.48         *         5         157.5         164.79         0.96         0.10         -         1.81           092         Nisga'a         12         470.0         4.29         *         3         157.5         15.86         9.93         0.00         -         21.20           094         Telegraph Creek         6         270.0         6.70         *         1         57.5         6.10         9.42         0.00         -         27.90           161         Vancouver - City Centre         193         5,777.5         0.74         *         51         1,362.5         1,290.38         1.06         0.73         -         1.38           162         Vancouver - Downtown E.side         298         8,725.0         2.39         *         58         1,525.0         635.08         2.40         *         1.71         3.09           163         Vancouver - Westside         117         3,827.5         0.66         *         25         752.5         9	084	Vancouver Island West	9	242.5	1.95	1	37.5	19.29	1.94	0.00		5.75
088         Terrace         46         1,607.0         1.48 *         5         157.5         164.79         0.96         0.10 -         1.81           092         Nisga'a         12         470.0         4.29 *         3         157.5         15.86         9.93         0.00 -         21.20           094         Telegraph Creek         6         270.0         6.70 *         1         57.5         6.10         9.42         0.00 -         27.90           161         Vancouver - City Centre         193         5,777.5         0.74 *         51         1,362.5         1,290.38         1.06         0.73 -         1.38           162         Vancouver - Downtown E.side         298         8,725.0         2.39 *         58         1,525.0         635.08         2.40 *         1.71 -         3.09           163         Vancouver - North East         117         3,827.5         0.66 *         25         752.5         911.11         0.83         0.46 -         1.19           164         Vancouver - Westside         120         3,350.0         0.45 *         19         527.5         1,172.41         0.45 *         0.22 -         0.68           165         Vancouver - Midtown         113<												
092         Nisga'a         12         470.0         4.29 *         3         157.5         15.86         9.93         0.00 -         21.20           094         Telegraph Creek         6         270.0         6.70 *         1         57.5         6.10         9.42         0.00 -         27.90           161         Vancouver - City Centre         193         5,777.5         0.74 *         51         1,362.5         1,290.38         1.06         0.73 -         1.38           162         Vancouver - Downtown E.side         298         8,725.0         2.39 *         58         1,525.0         635.08         2.40 *         1.71 -         3.09           163         Vancouver - North East         117         3,827.5         0.66 *         25         752.5         911.11         0.83         0.46 -         1.19           164         Vancouver - Westside         120         3,350.0         0.45 *         19         527.5         1,172.41         0.45 *         0.22 -         0.68           165         Vancouver - Midtown         113         3,512.0         0.69 *         20         627.0         795.63         0.79         0.40 -         1.18           166         Vancouver - South												
094         Telegraph Creek         6         270.0         6.70         *         1         57.5         6.10         9.42         0.00         -         27.90           161         Vancouver - City Centre         193         5,777.5         0.74         *         51         1,362.5         1,290.38         1.06         0.73         -         1.38           162         Vancouver - Downtown E.side         298         8,725.0         2.39         *         58         1,525.0         635.08         2.40         *         1.71         -         3.09           163         Vancouver - North East         117         3,827.5         0.66         *         25         752.5         911.11         0.83         0.46         -         1.19           164         Vancouver - Westside         120         3,350.0         0.45         *         19         527.5         1,172.41         0.45         *         0.22         -         0.68           165         Vancouver - Midtown         113         3,512.0         0.69         *         20         627.0         795.63         0.79         0.40         -         1.18           166         Vancouver - South         132 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
161         Vancouver - City Centre         193         5,777.5         0.74         *         51         1,362.5         1,290.38         1.06         0.73         -         1.38           162         Vancouver - Downtown E.side         298         8,725.0         2.39         *         58         1,525.0         635.08         2.40         *         1.71         -         3.09           163         Vancouver - North East         117         3,827.5         0.66         *         25         752.5         911.11         0.83         0.46         -         1.19           164         Vancouver - Westside         120         3,350.0         0.45         *         19         527.5         1,172.41         0.45         *         0.22         -         0.68           165         Vancouver - Midtown         113         3,512.0         0.69         *         20         627.0         795.63         0.79         0.40         -         1.18           166         Vancouver - South         132         4,329.5         0.58         *         22         712.0         1,129.33         0.63         *         0.32         -         0.94           201         Surrey         5												
162         Vancouver - Downtown E.side         298         8,725.0         2.39 *         58         1,525.0         635.08         2.40 *         1.71 -         3.09           163         Vancouver - North East         117 3,827.5         0.66 *         25 752.5         911.11 0.83 0.46 -         1.19           164         Vancouver - Westside         120 3,350.0 0.45 *         19 527.5         1,172.41 0.45 *         0.22 - 0.68           165         Vancouver - Midtown         113 3,512.0 0.69 *         20 627.0 795.63 0.79 0.40 -         1.18           166         Vancouver - South         132 4,329.5 0.58 *         22 712.0 1,129.33 0.63 *         0.32 - 0.94           201         Surrey         584 18,965.5 0.93 99 3,354.0 3,266.11 1.03 0.80 -         1.25           202         South Surrey/White Rock 85 2,957.0 0.80 *         19 637.5 590.04 1.08 0.55 -         1.61           PROVINCIAL TOTAL         7,351 233,339.5 1.00 1,231 36,962.5 36,962.50 1.00 0.94 -         1.06					00							
163       Vancouver - North East       117       3,827.5       0.66 *       25       752.5       911.11       0.83       0.46 -       1.19         164       Vancouver - Westside       120       3,350.0       0.45 *       19       527.5       1,172.41       0.45 *       0.22 -       0.68         165       Vancouver - Midtown       113       3,512.0       0.69 *       20       627.0       795.63       0.79       0.40 -       1.18         166       Vancouver - South       132       4,329.5       0.58 *       22       712.0       1,129.33       0.63 *       0.32 -       0.94         201       Surrey       584       18,965.5       0.93       99       3,354.0       3,266.11       1.03       0.80 *       1.25         202       South Surrey/White Rock       85       2,957.0       0.80 *       19       637.5       590.04       1.08       0.55 -       1.61         PROVINCIAL TOTAL       7,351       233,339.5       1.00       1,231       36,962.5       36,962.50       1.00       0.94 -       1.06												
164         Vancouver - Westside         120         3,350.0         0.45 *         19         527.5         1,172.41         0.45 *         0.22 -         0.68           165         Vancouver - Midtown         113         3,512.0         0.69 *         20         627.0         795.63         0.79         0.40 -         1.18           166         Vancouver - South         132         4,329.5         0.58 *         22         712.0         1,129.33         0.63 *         0.32 -         0.94           201         Surrey         584         18,965.5         0.93         99         3,354.0         3,266.11         1.03         0.80 *         1.25           202         South Surrey/White Rock         85         2,957.0         0.80 *         19         637.5         590.04         1.08         0.55 -         1.61           PROVINCIAL TOTAL         7,351         233,339.5         1.00         1,231         36,962.5         36,962.50         1.00         0.94 -         1.06												
165         Vancouver - Midtown         113         3,512.0         0.69         *         20         627.0         795.63         0.79         0.40         -         1.18           166         Vancouver - South         132         4,329.5         0.58         *         22         712.0         1,129.33         0.63         *         0.32         -         0.94           201         Surrey         584         18,965.5         0.93         99         3,354.0         3,266.11         1.03         0.80         -         1.25           202         South Surrey/White Rock         85         2,957.0         0.80         *         19         637.5         590.04         1.08         0.55         -         1.61           PROVINCIAL TOTAL         7,351         233,339.5         1.00         1,231         36,962.5         36,962.50         1.00         0.94         -         1.06												
201       Surrey       584       18,965.5       0.93       99       3,354.0       3,266.11       1.03       0.80       -       1.25         202       South Surrey/White Rock       85       2,957.0       0.80       *       19       637.5       590.04       1.08       0.55       -       1.61         PROVINCIAL TOTAL       7,351       233,339.5       1.00       1,231       36,962.5       36,962.50       1.00       0.94       -       1.06	165	Vancouver - Midtown	113	3,512.0	0.69 *	20	627.0	795.63	0.79	0.40	-	1.18
202         South Surrey/White Rock         85         2,957.0         0.80 *         19         637.5         590.04         1.08         0.55 -         1.61           PROVINCIAL TOTAL         7,351         233,339.5         1.00         1,231         36,962.5         36,962.50         1.00         0.94 -         1.06												
PROVINCIAL TOTAL   7,351 233,339.5 1.00   1,231 36,962.5 36,962.50 1.00 0.94 - 1.06		South Surrey/Mhite Daal										
	202											
				200,008.0	1.00	1,231	30,302.3	30,302.30	1.00	0.94	-	1.00

2004-2008

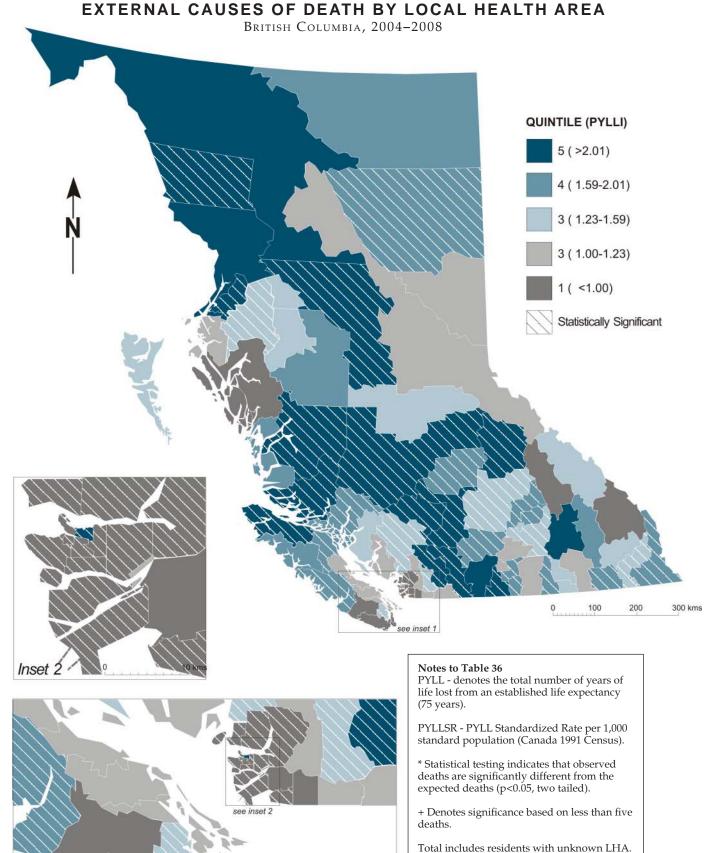
2009

Notes for this table follow the map.

figure 41

Inset 1

50 kms



Note: PYLLI - Potential Years of Life Lost Index. Refer to Figure 1 to clarify geographical location of LHAs.

#### **Medically Treatable Diseases**

A list of causes has been identified where death could potentially have been avoided through appropriate and timely medical intervention and treatment. It should be noted that the causes are considered to have been amenable to medical treatment only if the death occurred to persons within specific age ranges. Please see the footnote on Table 37 for a list of the causes and ages included in this category.

There were only 164 deaths due to these causes in 2009, which represents 0.5 percent of all deaths in the province.

Table 37 indicates the number and percent of all Medically Treatable Disease (MTD) deaths by cause for 2009 and the five-year period 2004-2008. Bacterial infections accounted for most of the deaths due to MTDs in 2009 and the previous five years. In 2009, two cause categories, hypertension and hypertensive diseases, and pneumonia and unqualified bronchitis, accounted for 46.6 percent male deaths due to MTDs and for females, about 30.3 percent.

Table 38 shows the count of deaths due to MTDs organized by the LHA in which the decedent lived. For the current year (2009) the table shows the actual number of deaths observed in the LHA and the expected deaths (calculated using the 2009 age-specific death rates for MTD).

There were 12 LHAs that had no deaths due to these conditions in 2004-2008 and 39 in 2009 as shown in Table 38. Further, there were only 8 LHAs in 2004-2008 that showed differences between observed and expected deaths that were statistically significant based on five or more deaths, and only 1 LHA with five or more deaths had statistically significant and high ratios in 2009.

Figure 42 shows the province divided up into its eighty-nine LHAs, with each area indicated as to whether its SMR for deaths due to MTDs was high or low on a five category scale: deep blue indicates the highest SMRs and dark grey indicates the lowest. As might be expected from a table containing such low counts, this map shows no obvious geographic pattern of location of the quintiles.

### Table 37

### DEATHS DUE TO MEDICALLY TREATABLE DISEASES BY SELECTED CAUSES AND GENDER

British Columbia, 2004-2008 and 2009

				2009					
		2004-	2004-2008		le	Fen	nale	To	tal
Cause of Death	ICD-10 Code(s)	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Bacterial Infections	A00-A05,, M871	281	33.7	25	28.4	21	27.6	46	28.0
Pneumonia and unqualified bronchitis	J12-J181, J188, J189, J40	173	20.7	18	20.5	14	18.4	32	19.5
Hypertension and hypertensive diseases	I10-I15	142	17.0	23	26.1	9	11.8	32	19.5
Malignant neoplasm of cervix	C53	137	16.4	-	-	20	26.3	20	12.2
Abdominal hernias, cholecystitis and cholelithiasis, appendicitis	K35-K37, K40-K46, K80, K81	35	4.2	5	5.7	3	3.9	8	4.9
Asthma	J45-J46	28	3.4	2	2.3	1	1.3	3	1.8
Tuberculosis	A15-A19, B90	19	2.3	4	4.5	1	1.3	5	3.0
Hodgkin's disease	C81	7	0.8	1	1.1	-	-	1	0.6
Chronic rheumatic heart disease	105-109	7	0.8	-	-	1	1.3	1	0.6
Acute respiratory infections and influenza	J00-J06, J09-J11, J20-22	5	0.6	10	11.4	6	7.9	16	9.8
Nutritional anemias	D50-D53	-	-	-	-	-	-	-	-
TOTAL		834	100.0	88	100.0	76	100.0	164	100.0

Note: Medically Treatable Diseases (MTDs) based on Charlton's definition (see Glossary).

\*ICD-10 codes A00-A05, A20-A49, B95-B96, G00, H66, H70, H95.0-H95.1, I00-I01, I02.0, I02.9, L01-L08, M00, M02.8-M02.9, M46.2, M86, M87.1.

Deaths due to MTDs exclude all deaths less than age 5 years old.

Deaths due to MTDs also exclude

- deaths aged 65 or more from hypertensive disease.
- deaths aged 50 or more from pneumonia and unqualified bronchitis.
- deaths aged 65 or more from cervical cancer.
- deaths aged 65 or more from tuberculosis.
- deaths aged 50 or more from asthma.
- deaths aged 45 or more from chronic rheumatic heart disease.
- deaths aged 50 or more from acute respiratory infections and influenza.
- deaths aged 65 or more from bacterial infections.
- deaths aged 35 or more from Hodgkin's disease.
- deaths aged 65 or more from abdominal hernias, cholecystitis and cholelithiasis, appendicitis.
- deaths aged 65 or more from deficiency nutritional anemias.

Total percentage may not add up to 100 due to rounding.

The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

# $^{\rm L}$ AREA DEATHS DUE 2004-2008 AND 2009 RATIO BY LOCAL HEALTH COLUMBIA, Вптіян DISEASES, STANDARDIZED MORTALITY TREATABLE MEDICALLY

2004-2008 2009 95% Confidence Interval Observed Observed Expected Local Health Area Deaths SMR (p) Deaths Deaths SMR (p) Lower Upper 0.59 001 Fernie 2 3 0.65 002 Cranbrook 0.400.97 1.03 0.01 5.72 003 Kimberley Windermere 1.72 0.34 004 0.42 6 2.52 005 Creston 0.45 006 Kootenay Lake 0.16 007 Nelson 5 6 1.00 0.98 009 Castlegar 2.28 0.51 1 97 0.03 10.94 010 Arrow Lakes 0.20 5 011 1.38 0.02 7.66 Trail 1.29 1 0.73 012 **Grand Forks** 0.34 013 Kettle Valley 0.16 6 9 1.58 014 Southern Okanagan 0.74 1.36 0.02 7 54 015 Penticton 1.18 3 1.51 1.99 0.40 5.82 016 Keremeos 0.20 2 017 0.21 0.06 26.28 Princeton 1.76 4.72 018 Golden 2 1.40 0.29 Revelstoke 0.31 3.25 0.04 18.10 0.62 020 Salmon Arm 11 1.62 1.36 Armstrong - Spallumcheen 021 0.35 14 0.24 3 53 022 Vernon Central Okanagan 1 13 3 2 48 1 21 023 35 1.08 6 6.76 0.89 0.32 1.93 024 Kamloops 29 1.36 5 4.13 0.39 1.21 2.83 025 100 Mile House 0.92 0.60 026 North Thompson 2 2.15 0.17 027 Cariboo - Chilcotin 3 5 3 0.56 1.01 0.99 0.01 5 49 028 Quesnel Lillooet 1.06 0.90 1.11 0.01 6.17 029 3.43 0.16 South Cariboo 6 030 3.91 0.28 Merritt 4 031 1.75 0.43 032 Hope 5 3.02 0.30 033 Chilliwack 20 1.40 3 2.89 1.04 0.21 3.04 034 Abbotsford 13 21 0.57 9 4.52 1.99 0.91 3.78 035 Langley Delta 0.89 9 4 57 1 97 0.90 3 74 25 5 037 3.75 1.33 0.43 3.11 1.23 038 Richmond 17 0.46 7.19 0.28 0.03 1.00 040 New Westminster 1.14 2.48 0.40 0.01 2.24 041 Burnaby 27 0.67 4 7.99 0.50 0.13 1.28 Maple Řidge 042 043 17 1.00 6 3.44 1.74 0.64 3.80 0.07 Coquitlam 25 0.61 3 8 23 0.36 1 07 044 18 5.29 North Vancouver 0.66 3 0.57 0.11 1.66 045 West Vancouver-Bowen Is. 2 6 0.58 1.95 1.03 0.12 3.70 046 Sunshine Coast 0.64 0.80 0.01 4.44 047 Powell River 8 1.91 0.78 1.28 0.02 7.10 048 Howe Sound 0.65 1.27 0.79 0.01 4.39 049 Bella Coola Valley Queen Charlotte 1 171 0.11 2 050 1.95 0.19 051 Snow Country 0.02 Prince Rupert 2 0.69 052 0.54 1.86 0.02 10.38 Upper Skeena 053 1.00 0.19 054 Smithers 3 0.96 0.58 055 Burns Lake 0.66 0.29 056 Nechako 3 1 04 0.52 1 91 0.03 10.64 Prince George 057 33 1.74 4 3.58 1.12 0.30 2.86 Peace River South 059 9 1.77 0.99 1.01 0.01 5.64 060 Peace River North 1.15 061 Greater Victoria 39 0.94 10 8.04 1.24 0.60 2.29 062 Sooke 10 0.80 4 2.60 1.54 0.41 3.94 063 Saanich 7 0.54 2 46 064 Gulf Islands 0.69 6 2 2.12 065 Cowichan 0.55 0.95 0.11 3.41 Lake Cowichan 4 3.07 0.26 066 2 22 067 Ladysmith 0.53 2 0.75 2.66 0.30 9.59 068 Nanaimo 1 12 3 87 1.81 0.72 3.73 5 069 Qualicum 0.54 1.81 070 3 2.54 0.51 Alberni 1.10 1.18 7.43 071 Courtenay 8 0.63 2.51 0.40 0.01 2.22 072 Campbell River 0.46 1.64 0.14 4.39 075 Mission 1.53 0.65 0.01 3.64 076 Agassiz - Harrison 3 1.78 0.32 077 Summerland 0.44 Enderby 3 078 1.99 0.29 3.50 0.05 19.46 080 Kitimat 2 0.91 0.40 2.49 0.03 13.83 081 Fort Nelson 3 2 2.67 0.21 083 Central Coast 7.61 0.05 Vancouver Island West 084 1.83 0.11 Vancouver Island North Stikine 085 5 1.88 0.48 087 0.04 6 0.74 088 Terrace 1.52 1.35 0.02 7.49 092 0.07 Nisga'a 094 Telegraph Creek 8.66 0.02 161 Vancouver - City Centre 35 1.58 5 4.30 1.16 0.37 2.71 Vancouver - Downtown E.side 2.59 162 58 4.94 8 3.09 1.33 6.08 14 3.73 0.29 163 Vancouver - North East Vancouver - Westside 0.76 1.07 2.74 17 3 4.75 164 0.68 0.63 0.13 1.85 3.23 1.24 0.33 3.17 165 Vancouver - Midtown 10 0.63 Vancouver - South 166 19 0.77 4.84 1.03 0.33 2.41 201 70 1.08 17 13.03 1.30 0.76 2.09 South Surrey/White Rock
PROVINCIAL TOTAL 202 13 0.81 3.10 0.32 0.00 1.79

164

164.00

1.00

0.85

1.17

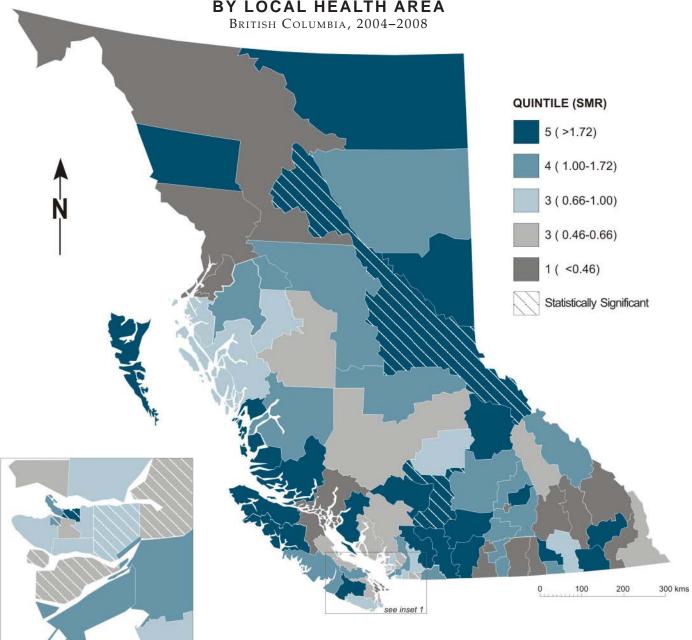
Notes for this table follow the map.

834

1.00

FIGURE 42

### DEATHS DUE TO MEDICALLY TREATABLE DISEASES BY LOCAL HEALTH AREA





Inset 2

### Notes to Table 38

Medically Treatable Diseases based on Charlton's definition (see glossary - Medically Treatable Diseases).

\*Statistical testing indicates that observed deaths are significantly different from the expected deaths (p<0.05, two tailed).

+Denotes significance based on less than five deaths. SMR - Standardized Mortality Ratio. Total includes residents with unknown LHA.

Note: Refer to Figure 1 to clarify geographical location of LHAs.

### Alcohol-Related Deaths

Alcohol-related deaths provide information on deaths due to alcohol (directly related) as well as those where alcohol was a contributing factor (indirectly related). Alcohol-related and drug overdose deaths are the only cause of death categories in this publication that are not based entirely upon the underlying causes of death. See the Glossary for a further explanation of alcohol-related deaths and Table 39 for the list of causes used for deaths directly due to alcohol.

Table 39 shows the number and percent of deaths that were directly and indirectly related to alcohol in 2009 and in the five preceding years, while Figure 43 graphically shows the pattern of alcohol-related deaths by cause. About 22.1 percent of the 1,755 deaths related to alcohol in 2009 were directly attributable to alcohol (387 deaths). Alcohol was a contributing factor in the remaining 77.9 percent of these deaths. The table indicates that most of the deaths directly attributable to alcohol were caused by liver disease (14.3 percent) in 2009.

Table 40 shows numbers and percentages of alcohol-related deaths by age group for males, females, and the total population. All alcohol-related deaths, whether directly or indirectly related to alcohol, are included in this table.

Alcohol-related deaths constitute 5.6 percent of all deaths in 2009 and 8.3 percent of all male deaths. Males died of such causes nearly 3 times more frequently than women in 2009.

Alcohol-related deaths for seniors (65 or older) accounted for 42.6 percent of deaths; 43.6 percent were people between the ages of 45 and 64.

The numbers of deaths directly and indirectly related to alcohol are shown for the LHAs in Table 41.

There were 17 LHAs with at least five deaths where the observed values were statistically significant and above the expected values in both 2004-2008 and 2009 as shown in Table 41. There were 11 LHAs with SMRs that were statistically significant and low in both time periods. The map in Figure 44 shows the SMR quintiles and statistical significance patterns in each LHA during 2004-2008.

Reports of alcohol-related deaths in 2009 are lower than in previous years. Many alcohol related deaths are referred to the BC Coroner Service for investigation. As with external causes of death, the medical coding will be incomplete until the coroner closes the investigation. For this reason the counts are often lower in the current year and are adjusted upwards in later annual reports.

# TABLE 39 ALCOHOL-RELATED DEATHS BY CAUSE

British Columbia, 2004-2008 and 2009

				Year of Death								
		2004-		200	-							
Cause of Death	ICD-10 Code(s)	Number	Percent	Number	Percent							
Directly Related to Alcohol												
Alcohol intoxication	F100	179	1.8	17	1.0							
Alcoholic psychoses and dependence	F101-F109	526	5.2	72	4.1							
Alcoholic neurological disorders	G312, G621, G721	-	-	-	-							
Alcoholic cardiomyopathy	1426	89	0.9	22	1.3							
Alcoholic gastritis	K292	12	0.1	3	0.2							
Alcoholic liver disease	K70	1,136	11.2	251	14.3							
Alcohol induced chronic pancreatitis	K860	11	0.1	1	0.1							
Alcohol poisoning	X45, X65	95	0.9	21	1.2							
Other alcohol causes	E244, O354, O993, P043, Q860, R780, T510-T512, T519	-	-	-	-							
SUBTOTAL ndirectly Related to Alcohol <sup>1</sup>		2,048	20.1	387	22.1							
Certain infectious and parasitic diseases	A00-B99	330	3.2	50	2.8							
Neoplasms	C00-D48	1,182	11.6	232	13.2							
Endocrine/Nutritional/Metabolic	E00-E243, E248-E89	283	2.8	52	3.0							
Mental disorders	F00-F09, F11-F99	131	1.3	21	1.2							
Neurological diseases G620, G622-G720, G722-G99	G00-G311, G318-	117	1.1	17	1.0							
Circulatory	100-1425, 1427-199	2,063	20.3	319	18.2							
Diseases of the respiratory system	J00-J98	682	6.7	143	8.1							
Digestive system diseases	K00-K291, K293-K69, K71-K85, K861-K92	576	5.7	75	4.3							
Urinary system diseases	N00-N39, N990, N991, N995	94	0.9	12	0.7							
Unintentional injury	V01-X44, X46-X59, Y40-Y86, Y88	1,634	16.0	212	12.1							
Suicide	X60-X64, X66-X84, Y87	511	5.0	94	5.4							
Homicide	X85-Y09, Y871	52	0.5	4	0.2							
All other causes		481	4.7	137	7.8							
SUBTOTAL		8,136	79.9	1,368	77.9							
TOTAL		10,184	100.0	1,755	100.0							

Note: \(^1ICD-10\) codes for indirectly related to alcohol exclude the codes for directly related to alcohol and will not match the list of codes used for these categories in other tables.

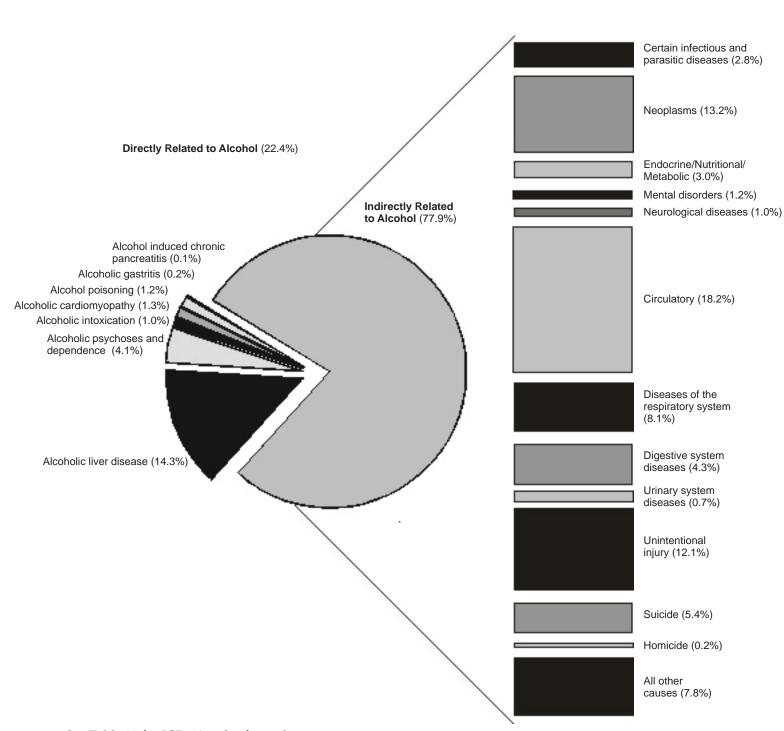
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality. With the introduction of ICD-10 in 2000, more specific codes are available. Currently produced data should not be used in combination with data produced prior to 2000. The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

În 2008, the BC Coroners Service and BC Vital Statistics Agency engaged in a retrospective review of death registrations of alcohol-related fatalities. As a result of the project, a number of registrations were ammended and are reflected in this report.

# FIGURE 43 ALCOHOL-RELATED DEATHS BY CAUSE

British Columbia, 2009



See Table 39 for ICD-10 codes for each category.

 ${\small \textbf{TABLE 40}} \\ \textbf{ALCOHOL-RELATED DEATHS BY AGE AND GENDER} \\ \\$ 

British Columbia, 2009

	M	ale	Fen	nale	Total		
Age	Number	Percent	Number	Percent	Number	Percent	
<15	-	-	-	-	-	-	
15-19	15	1.1	3	0.7	18	1.0	
20-24	22	1.7	8	1.8	30	1.7	
25-44	143	10.8	51	11.8	194	11.1	
45-64	580	43.9	185	42.7	765	43.6	
65-84	485	36.7	130	30.0	615	35.0	
85+	77	5.8	56	12.9	133	7.6	
TOTAL	1,322	100.0	433	100.0	1,755	100.0	

Note: Alcohol-related deaths – see Table 39 for ICD-10 codes and Glossary for more details.

Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality.

With the introduction of ICD-10 in 2000, more specific codes are available.

Currently produced data should not be used in combination with data produced prior to 2000.



106

British Columbia, 2004–2008 and 2009

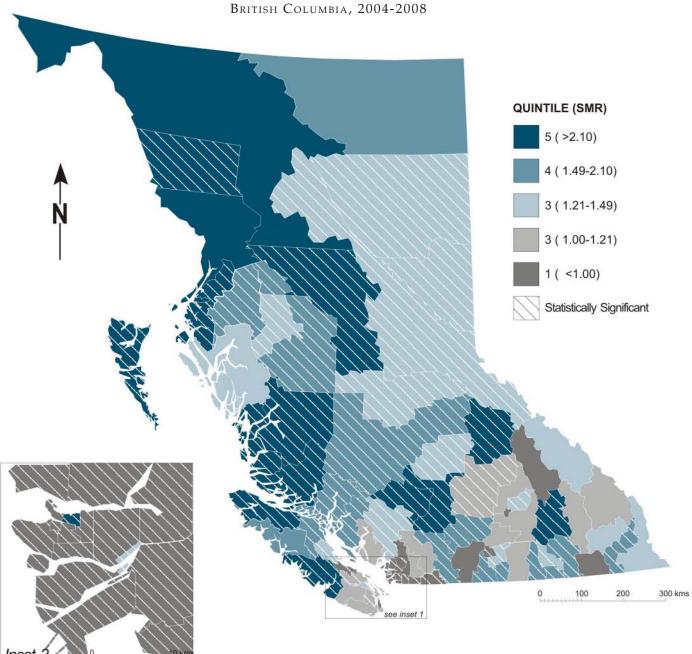
		2004-	2008			2009		
		Observed		Observed	Expected		95% Confiden	
Local H	ealth Area	Deaths	SMR (p)	Deaths	Deaths	SMR (p)	Lower	Upper
001	Fernie	43	1.28	6	5.78	1.04	0.38 -	2.26
002	Cranbrook	97	1.56 *	10	10.76	0.93	0.44 -	1.71
003	Kimberley	30	1.25	8	4.09	1.96	0.84 -	3.85
004	Windermere	29	1.17	3	4.36	0.69	0.14 -	2.01
005	Creston	36	0.93	13	6.52	1.99 *	1.06 -	3.41
006	Kootenay Lake	11	1.00	2	1.89	1.06	0.12 -	3.82
007	Nelson	97	1.61 *	17	10.41	1.63	0.95 -	2.62
009	Castlegar	49	1.45	10	5.83	1.72	0.82 -	3.16
010	Arrow Lakes	31	2.11 *	2	2.48	0.81	0.09 -	2.91
011	Trail	103	1.34	17	8.97	1.50	1.10 -	3.03
012	Grand Forks	43	1.01	7	4.71	1.48	0.59 -	3.06
013	Kettle Valley Southern Okanagan	12	1.05	3	2.00	1.50	0.30 -	4.37
014 015	Penticton	112 157	1.63 * 1.25 *	17 28	11.58 21.21	1.47 1.32	0.85 - 0.88 -	2.35 1.91
016	Keremeos	32	1.80 *	6	3.04	1.98	0.66 -	4.30
017	Princeton	12	0.70	3	2.97	1.01	0.72 -	2.95
018	Golden	19	1.21	2	2.72	0.74	0.08 -	2.66
019	Revelstoke	16	0.85	6	3.16	1.90	0.69 -	4.14
020	Salmon Arm	111	1.12	23	17.32	1.33	0.84 -	1.99
021	Armstrong - Spallumcheen	19	0.75	4	4.44	0.90	0.24 -	2.31
022	Vernon	181	1.06	31	29.87	1.04	0.70 -	1.47
023	Central Okanagan	457	1.01	80	78.96	1.01	0.80 -	1.26
024	Kamloops	308	1.17 *	45	45.44	0.99	0.72 -	1.33
025	100 Mile House	58	1.34 *	5	7.36	0.68	0.22 -	1.59
026	North Thompson	24	2.15 *	2	1.91	1.05	0.12 -	3.77
027	Cariboo - Chilcotin	121	2.00 *	37	10.38	3.57 *	2.51 -	4.92
028	Quesnel	83	1.48 *	7	9.65	0.73	0.29 -	1.49
029	Lillooet	36	3.38 *	8	1.82	4.39 *	1.89 -	8.65
030	South Cariboo	55	2.63 *	9	3.57	2.52 *	1.15 -	4.78
031	Merritt	58	2.00 *	12	4.92	2.44 *	1.26 -	4.26
032	Hope	47	1.96 *	7	3.99	1.76	0.70 -	3.62
033	Chilliwack	162	0.85 *	38	33.26	1.14	0.81 -	1.57
034	Abbotsford	215	0.76 *	37	47.89	0.77	0.54 -	1.06
035	Langley	223	0.82 *	39	48.51	0.80	0.57 -	1.10
037	Delta	159	0.68 *	25	40.51	0.62 *	0.40 -	0.91
038	Richmond	165	0.39 *	29	72.36	0.40 *	0.27 -	0.58
040	New Westminster	193	1.37 *	35	24.08	1.45 *	1.01 -	2.02
041	Burnaby	361	0.75 *	66	81.81	0.81	0.62 -	1.03
042	Maple Ridge	173	0.94	18	32.03	0.56 * 0.57 *	0.33 -	0.89
043	Coquitlam	268	0.64 *	42	73.96	0.07	0.41 -	0.77
044	North Vancouver	178	0.57	29	53.17	0.00	0.37 -	0.78
045	West Vancouver-Bowen Is.	77	0.51	13	25.01	0.52	0.28 -	0.89
046	Sunshine Coast	89	1.04 1.58 *	14	15.27	0.92 2.03 *	0.50 -	1.54
047 048	Powell River	91	1.58 * 1.29 *	20	9.84	2.03 * 1.45	1.24 - 0.81 -	3.14
048	Howe Sound Bella Coola Valley	75 31	4.59 *	15 7	10.35 1.12	6.28 *	0.81 - 2.51 -	2.39 12.93
050	Queen Charlotte	37	3.48 *	7	1.12	3.86 *	1.55 -	7.95
050	Snow Country	3	2.11		0.20	5.00	1.55	7.33
052	Prince Rupert	72	2.30 *	14	5.22	2.68 *	1.46 -	4.50
053	Upper Skeena	23	2.10 *	1	1.84	0.54	0.01 -	3.03
054	Smithers	46	1.40 *	8	5.67	1.41	0.61 -	2.78
055	Burns Lake	34	1.90 *	6	2.99	2.01	0.73 -	4.37
056	Nechako	70	2.17 *	12	5.46	2.20 *	1.14 -	3.84
057	Prince George	278	1.40 *	58	33.93	1.71 *	1.30 -	2.21
059	Peace River South	84	1.48 *	12	9.62	1.25	0.64 -	2.18
060	Peace River North	75	1.32 *	13	9.74	1.34	0.71 -	2.28
061	Greater Victoria	670	1.20 *	110	92.10	1.19	0.98 -	1.44
062	Sooke	137	1.03	29	23.88	1.21	0.81 -	1.74
063	Saanich	142	0.71 *	25	33.89	0.74	0.48 -	1.09
064	Gulf Islands	58	1.12	14	9.02	1.55	0.85 -	2.61
065	Cowichan	173	1.20 *	29	24.93	1.16	0.78 -	1.67
066	Lake Cowichan	19	1.15	5	2.87	1.74	0.56 -	4.06
067	Ladysmith	76	1.41 *	11	9.54	1.15	0.57 -	2.06
068	Nanaimo	310	1.18 *	47	45.49	1.03	0.76 -	1.37
069	Qualicum	128	0.83 *	29	27.07	1.07	0.72 -	1.54
070	Alberni	175	2.15 *	39	13.87	2.81 *	2.00 -	3.84
071	Courtenay	227	1.37 *	42	29.62	1.42 *	1.02 -	1.92
072	Campbell River	149	1.49 *	31	17.63	1.76 *	1.19 -	2.50
075	Mission	90	1.05	10	14.69	0.68	0.33 -	1.25
076	Agassiz - Harrison	25	1.06	3	3.97	0.76	0.15 -	2.21
077	Summerland	18	0.48 * 1.47 *	8	6.27	1.28	0.55 -	2.51
078	Enderby	31	1.17	5	3.63	1.38	0.44 -	3.21
080	Kitimat	30	1.26	4	4.02	1.00	0.27 -	2.55
081	Fort Nelson	15	1.56	-	1.56	4.54	0.51	16.00
083	Central Coast	22	7.82 *	2	0.44	4.51	0.51 -	16.28
084	Vancouver Island West	10	1.63	2	1.03	1.94	0.22 -	7.00
085	Vancouver Island North	86	3.19 *	6 5	4.59 0.41	1.31	0.48 - 3.94 -	2.84
087 088	Stikine Terrace	6 77	2.37 1.80 *	15	0.41	12.22 * 2.04 *	3.94 - 1.14 -	28.52
088 092	Nisga'a	12	3.19 *	15	7.34 0.65	2.04 · · · 6.13 +	1.14 - 1.65 -	3.37 15.68
092	Telegraph Creek	6	4.82 *	1	0.65	6.13 + 5.22	0.07 -	29.03
161	Vancouver - City Centre	196	0.83 *	39	39.95	5.22 0.98	0.69 -	1.33
162	Vancouver - City Centre Vancouver - Downtown E.side	339	2.35 *	50	25.53	1.96 *	0.69 - 1.45 -	2.58
163	Vancouver - North East	126	0.55 *	18	38.69	0.47 *	0.28 -	0.74
164	Vancouver - Westside	135	0.55	17	47.22	0.47	0.26 -	0.74
	Vancouver - Midtown	144	0.47	19	30.11	0.63 *	0.21 -	0.56
	varioudy or - iviluluwiii		0.51 *	29	50.94	0.63	0.38 -	0.99
165	Vancouver - South						0.00 -	0.02
165 166	Vancouver - South	156 575					0.58 -	0.89
165	Vancouver - South Surrey South Surrey/White Rock	575 138	0.84 * 0.59 *	90 26	124.34 41.73	0.72 * 0.62 *	0.58 - 0.41 -	0.89 0.91

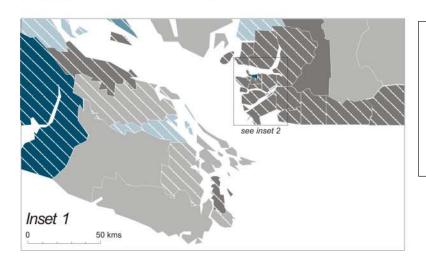
2004-2008

2009

Notes for this table follow the map.

 $$_{\rm FIGURE}$$  44 ALCOHOL-RELATED DEATHS BY LOCAL HEALTH AREA





### Notes to Table 41

\*Statistical testing indicates that observed deaths are significantly different from the expected deaths (p<0.05, two tailed).

+Denotes significance based on less than five deaths. Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality. With the introduction of ICD-10 in 2000, more specific codes are available. Currently produced data should not be used in combination with data produced prior to 2000.

Note: Refer to Figure 1 to clarify geographical location of LHAs.

### **Smoking-Attributable Deaths**

Table 42 and Figure 45 portray the number and percent of deaths in 2009 that were attributable to smoking for those aged 35 years and older. The age restriction relates to the fact that smoking-attributable conditions generally become apparent over time and after several years of tobacco use. Because the decedent's smoking history is usually not available on the death record, the link between smoking and mortality is estimated indirectly. Research-derived proportions of deaths from certain diseases (like lung cancer) that are due to smoking are used to estimate the number of smoking-attributable deaths due to those diseases. See the Glossary entry on smoking-attributable mortality (SAM) for details and the Methodology section for the calculation formulae for these indicators.

Figure 45 shows the smoking-attributable portion of each of seven cause-of-death categories selected according to highest SAM number from Table 42.

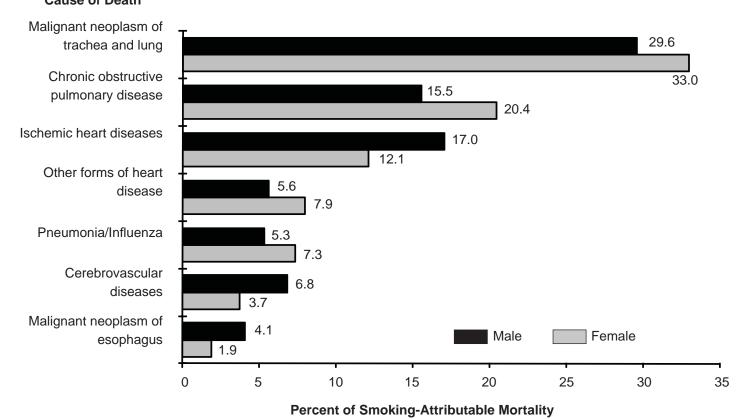
Table 42 shows the number of deaths by causes and the percentage and number of those deaths that are attributed to smoking. Also shown is the percentage of total SAM by cause category.

In 2009, there were 6,089 deaths attributed to smoking as shown in Table 42. By far the largest disease category was malignant neoplasms of trachea and lung (31.0 percent) followed by chronic obstructive pulmonary disease (17.6 percent) and ischemic heart disease (15.0 percent).

FIGURE 45

SMOKING-ATTRIBUTABLE MORTALITY
BY SELECTED CAUSES AND GENDER
BRITISH COLUMBIA, 2009

### **Cause of Death**



Note: Ischemic heart disease includes 35-64 years and 65+ years. Cerebrovascular disease includes 35-64 years and 65+ years.

Table 42 **SMOKING-ATTRIBUTABLE MORTALITY** 

British Columbia, 2009

Malignant Neoplasms   Malignant neoplasms of lip, or care in traches and lung Malignant neoplasm of C67			Male				Female				Total		
Malignant neoplasms of lip.   C00-C14   112   91.2   102   2.9   48   59.9   29   1.1   160   131   2.1   131					SA				SA			SA	
Malignant neoplasms of lip, oral cavity and pharynx   112   91.2   102   2.9   48   59.9   29   1.1   160   131   2.1   071	Cause of Death	ICD-10 Code(s)	Deaths	SAM (%)	Number	Percent	Deaths	SAM (%)	Number	Percent	Deaths	Number	Percent
Oral cavity and pharynx   Malignant neoplasm of   C15   186   78.2   145   4.1   66   71.0   47   1.9   252   192   3.2   2.2	Malignant Neoplasms												
Malignant neoplasm of   C15   186   78.2   145   4.1   66   71.0   47   1.9   252   192   3.2   esophagus   Salignant neoplasm of   C25   313   21.7   68   1.9   236   33.9   80   3.2   549   148   2.4   C24   C25   C25			112	91.2	102	2.9	48	59.9	29	1.1	160	131	2.1
Malignant neoplasm of part o	•	C15	186	78.2	145	4.1	66	71.0	47	1.9	252	192	3.2
Iarynx   Malignant neoplasm of trachea and lung   Malignant neoplasms of trachea and lung   Malignant neoplasms of corvix, uterus   Malignant neoplasms of corvix, uterus   Malignant neoplasm of corvix	Malignant neoplasm of	C25	313	21.7	68	1.9	236	33.9	80	3.2	549	148	2.4
Malignant neoplasms of C53-C55   -   -   -   -   -   120   33.9   41   1.6   120   41   0.7	-	C32	34	79.7	27	0.8	6	87.2	5	0.2	40	32	0.5
Malignant neoplasms of C63-C55   -   -   -   -   120   33.9   41   1.6   120   41   0.7		C33-C34	1,186	89.3	1,059	29.6	1,081	76.5	827	33.0	2,267	1,886	31.0
Diadder   Malignant neoplasm of   C64-C66, kidney and other   C68   C6	Malignant neoplasms of	C53-C55	-	-	-	-	120	33.9	41	1.6	120	41	0.7
SUBTOTAL   C68	Malignant neoplasm of	C67	207	44.8	93	2.6	89	37.6	33	1.3	296	126	2.1
SUBTOTAL   Circulatory System Diseases   Hypertension   H0-H13   142   24.6   3.5   1.0   20.9   16.4   3.4   1.4   3.5   3.	kidney and other	C68	139	46.8	65	1.8	76	12.4	9	0.4	215	74	1.2
Hypertension			2,177		1,560	43.6	1,722		1,071	42.7	3,899	2,631	43.2
Ischemic heart diseases :		ses											
65+ years         1,980         21.1         418         11.7         1,838         14.6         268         10.7         3,818         686         11.3           Other forms of heart diseases         101-109, 127, disease         130-152         201         5.6         1,028         19.4         199         7.9         1,788         401         6.6           disease         130-152         160-169         35-64 years         95         44.8         43         1.2         66         49.3         33         1.3         161         75         1.2         65+ years         861         23.4         201         5.6         1,272         4.8         61         2.4         2,133         263         4.3           Atherosclerosis         170         26         55.5         14         0.4         42         31.7         13         0.5         68         28         0.5           Aortic aneurysm         171         120         55.5         67         1.9         64         31.7         20         0.8         184         87         1.4           Other arterial diseases         126, 128, 172-178         1,513         1,218         34.0         4,708         694         27.6 <td>71</td> <td></td> <td>142</td> <td>24.6</td> <td>35</td> <td>1.0</td> <td>209</td> <td>16.4</td> <td>34</td> <td>1.4</td> <td>351</td> <td>69</td> <td>1.1</td>	71		142	24.6	35	1.0	209	16.4	34	1.4	351	69	1.1
Other forms of heart disease         I01-I09, I27, disease         760         26.5         201         5.6         1,028         19.4         199         7.9         1,788         401         6.6           disease         I30-I52         Cerebrovascular diseases:         I60-I69         35-64 years         95         44.8         43         1.2         66         49.3         33         1.3         161         75         1.2           65+ years         861         23.4         201         5.6         1,272         4.8         61         2.4         2,133         263         4.3           Atherosclerosis         I70         26         55.5         14         0.4         42         31.7         13         0.5         68         28         0.5           Aortic aneurysm         I71         120         55.5         67         1.9         64         31.7         20         0.8         184         87         1.4           Other arterial diseases         I72-I78         84         55.5         47         1.3         93         31.7         29         1.2         177         76         1.2           Respiratory System Diseases         4,513         1,218         3	•												
disease       130-152         Cerebrovascular diseases:       160-169         35-64 years       95       44.8       43       1.2       66       49.3       33       1.3       161       75       1.2         65+ years       861       23.4       201       5.6       1,272       4.8       61       2.4       2,133       263       4.3         Atherosclerosis       170       26       55.5       14       0.4       42       31.7       13       0.5       68       28       0.5         Aortic aneurysm       171       120       55.5       67       1.9       64       31.7       20       0.8       184       87       1.4         Other arterial       126, 128, alignet       84       55.5       47       1.3       93       31.7       29       1.2       177       76       1.2         diseases       172-178       4,513       1,218       34.0       4,708       694       27.6       9,221       1,912       31.4         Respiratory System Diseases         Pneumonia/Influenza       J09-J181, J188, J189       57       84.7       48       1.3       49       79.2 </td <td>•</td> <td>101-100 127</td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	•	101-100 127					,						
65+ years       861       23.4       201       5.6       1,272       4.8       61       2.4       2,133       263       4.3         Atherosclerosis       170       26       55.5       14       0.4       42       31.7       13       0.5       68       28       0.5         Aortic aneurysm       171       120       55.5       67       1.9       64       31.7       20       0.8       184       87       1.4         Other arterial diseases       126, 128, 43       84       55.5       47       1.3       93       31.7       29       1.2       177       76       1.2         diseases       172-178       4,513       1,218       34.0       4,708       694       27.6       9,221       1,912       31.4         Respiratory System Diseases         Pneumonia/Influenza       J09-J181, J188, J189       580       32.7       190       5.3       698       26.3       184       7.3       1,278       373       6.1         Chronic obstructive, pulmonary disease       J44       657       84.7       556       15.5       648       79.2       513       20.4       1,305       1,0	disease	130-152	700	20.5	201	5.0	1,020	13.4	199	1.5	1,700	401	0.0
Atherosclerosis I70 26 55.5 14 0.4 42 31.7 13 0.5 68 28 0.5 Aortic aneurysm I71 120 55.5 67 1.9 64 31.7 20 0.8 184 87 1.4 Other arterial I26, I28, diseases I72-I78  SUBTOTAL 4,513 1,218 34.0 4,708 694 27.6 9,221 1,912 31.4 Respiratory System Diseases  Pneumonia/Influenza J09-J181, J188, J189  Bronchitis, emphysema J40-J43 57 84.7 48 1.3 49 79.2 39 1.5 106 87 1.4 Chronic obstructive pulmonary disease  Other respiratory diseases A15-A19, J45-J46  SUBTOTAL 1,317 802 22.4 1,429 745 29.7 2,746 1,546 25.4	35-64 years		95	44.8	43	1.2	66	49.3	33	1.3	161	75	1.2
Aortic aneurysm	65+ years		861	23.4	201	5.6	1,272	4.8	61	2.4	2,133		
Other arterial diseases         I26, I28, I72-I78         84         55.5         47         1.3         93         31.7         29         1.2         177         76         1.2           SUBTOTAL         4,513         1,218         34.0         4,708         694         27.6         9,221         1,912         31.4           Respiratory System Diseases           Pneumonia/Influenza         J09-J181, J189, J189         580         32.7         190         5.3         698         26.3         184         7.3         1,278         373         6.1           Bronchitis, emphysema         J40-J43         57         84.7         48         1.3         49         79.2         39         1.5         106         87         1.4           Chronic obstructive pulmonary disease         J44         657         84.7         556         15.5         648         79.2         513         20.4         1,305         1,070         17.6           Other respiratory diseases         A15-A19, J45-J46         32.7         802         22.4         1,429         745         29.7         2,746         1,546         25.4													
diseases         I72-I78           SUBTOTAL         4,513         1,218         34.0         4,708         694         27.6         9,221         1,912         31.4           Respiratory System Diseases           Pneumonia/Influenza         J09-J181, J188, J189         580         32.7         190         5.3         698         26.3         184         7.3         1,278         373         6.1           Bronchitis, emphysema         J40-J43         57         84.7         48         1.3         49         79.2         39         1.5         106         87         1.4           Chronic obstructive pulmonary disease         J44         657         84.7         556         15.5         648         79.2         513         20.4         1,305         1,070         17.6           Other respiratory diseases         A15-A19, J45-J46         32.7         802         22.4         1,429         745         29.7         2,746         1,546         25.4	·												
Preumonia/Influenza   J09-J181, J188, J189   S80   32.7   190   5.3   698   26.3   184   7.3   1,278   373   6.1   374   375	diseases			55.5				31.7					
Pneumonia/Influenza         J09-J181, J188, J189         580         32.7         190         5.3         698         26.3         184         7.3         1,278         373         6.1           Bronchitis, emphysema         J40-J43         57         84.7         48         1.3         49         79.2         39         1.5         106         87         1.4           Chronic obstructive pulmonary disease         J44         657         84.7         556         15.5         648         79.2         513         20.4         1,305         1,070         17.6           Other respiratory diseases         A15-A19, J45-J46         23         32.7         8         0.2         34         26.3         9         0.4         57         16         0.3           SUBTOTAL         1,317         802         22.4         1,429         745         29.7         2,746         1,546         25.4		ses	4,513		1,218	34.0	4,708		694	27.6	9,221	1,912	31.4
Bronchitis, emphysema   J40-J43   57   84.7   48   1.3   49   79.2   39   1.5   106   87   1.4			580	32.7	190	5.3	698	26.3	184	7.3	1.278	373	6.1
Chronic obstructive J44 657 84.7 556 15.5 648 79.2 513 20.4 1,305 1,070 17.6 pulmonary disease Other respiratory diseases A15-A19, J45-J46  SUBTOTAL 1,317 802 22.4 1,429 745 29.7 2,746 1,546 25.4		J188, J189											
pulmonary disease       Other respiratory diseases       A15-A19, J45-J46       23       32.7       8       0.2       34       26.3       9       0.4       57       16       0.3         SUBTOTAL       1,317       802       22.4       1,429       745       29.7       2,746       1,546       25.4													
Other respiratory diseases A15-A19, J45-J46  SUBTOTAL 1,317 802 22.4 1,429 745 29.7 2,746 1,546 25.4		•		J	555	. 5.0	3.0		3.0	_0.7	.,500	.,5.0	
			23	32.7	8	0.2	34	26.3	9	0.4	57	16	0.3
TOTAL 8,007 3,579 100.0 7,859 2,510 100.0 15,866 6,089 100.0	SUBTOTAL		1,317		802	22.4	1,429		745	29.7	2,746	1,546	25.4
	TOTAL		8,007		3,579	100.0	7,859		2,510	100.0	15,866	6,089	100.0

Note: Deaths are the total number of deaths aged 35+ years or as specified in the diagnostic category. SAM – Smoking-Attributable Mortality, derived by multiplying the SAM(%) by the number of deaths in each category.

See glossary under Smoking-Attributable Mortality Percent for a definition of the formula for SAM(%). Total SAM Number may not add up to the sum of Male SAM Number and Female SAM Number due to rounding.

Non-residents are excluded.

The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

### **Drug-Induced Deaths**

Drug-induced deaths are all deaths directly due to drug use, including use of illicit, prescribed, and over-the-counter drugs. This category excludes causes indirectly related to drug use and also excludes those deaths due to alcohol or smoking. See Table 44 for a list of the drug induced death categories.

Table 43 shows that more males (232) died of drug-induced causes than females (131). Among individuals aged 25 to 64 years, there were 308 drug-induced deaths (84.8 percent), and 176 drug-induced deaths (48.5 percent) in the 45 to 64 year age-group.

Table 44 presents drug-induced deaths by cause for 2004-2008 and 2009. In 2009, 67.5 percent of drug-induced deaths were the result of accidental poisoning by drugs compared to 67.1 percent in the previous five years. Of the 452 suicide deaths in BC in 2009, 17.7 percent were drug-induced.

Figure 46 is a graphic presentation of the results from Table 44. In 2009, almost all drug induced deaths were unintentional poisoning or suicide.

Table 45 shows the number of observed and expected drug-induced deaths and the ratio of observed to expected deaths (SMR) in each LHA in 2009 and in the previous five years. In 2009, 30 LHAs had no drug-induced deaths and 7 had no drug-induced deaths in 2004-2008. Vancouver - City Centre , Penticton and Vancouver - Downtown Eastside were the only LHAs where the observed number of deaths was more than 5 and statistically significantly higher than the expected numbers in 2009 as well as the previous five years.

Figure 47 maps the variation of SMRs in the LHAs divided into quintiles for 2004-2008.

TABLE 43

DRUG-INDUCED DEATHS BY AGE AND GENDER
BRITISH COLUMBIA, 2009

	М	ale	Fem	ale	Tot	al
Age	Number	Percent	Number	Percent	Number	Percent
<15	-	-	1	0.8	1	0.3
15-19	2	0.9	1	0.8	3	0.8
20-24	10	4.3	9	6.9	19	5.2
25-44	90	38.8	42	32.1	132	36.4
45-64	112	48.3	64	48.9	176	48.5
65-84	15	6.5	12	9.2	27	7.4
85+	3	1.3	2	1.5	5	1.4
TOTAL	232	100.0	131	100.0	363	100.0

Note: Excludes tobacco and alcohol

Drug-induced deaths – see Table 44 for ICD-10 codes and Glossary for more details.

Total percentage may not add up to 100 due to rounding.

Non-residents are excluded.

 $\begin{array}{c} {\sf TABLE} \ 44 \\ {\sf DRUG\text{-}INDUCED} \ {\sf DEATHS} \ {\sf BY} \ {\sf CAUSE} \end{array}$ 

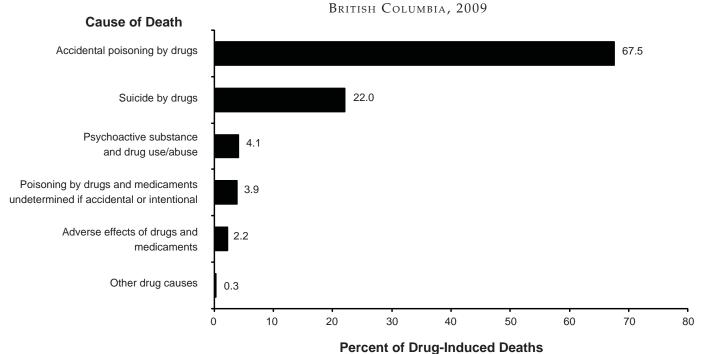
British Columbia, 2004-2008 and 2009

		Year of Death					
		2004	-2008	2009			
Cause of Death	ICD-10 Code(s)	Number	Percent	Number	Percent		
Psychoactive substance and drug use/abuse	F11-F16, F19	126	6.0	15	4.1		
Accidental poisoning by drugs	X40-X44	1,405	67.1	245	67.5		
Suicide by drugs	X60-X64	470	22.4	80	22.0		
Assault by drugs and medicaments	X85	1	0.0	-	-		
Poisoning by drugs and medicaments undetermined if accidental or intention	Y10-Y14 al	70	3.3	14	3.9		
Adverse effects of drugs and medicaments	Y40-Y574, Y577-Y579, Y598, Y880	21	1.0	8	2.2		
Other drug causes*		1	0.0	1	0.3		
TOTAL		2,094	100.0	363	100.0		

Note: Excludes tobacco and alcohol. Total percentage may not add to 100 due to rounding. Non-residents are excluded. \*ICD-10 codes D521, D590, D592, D611, D642, E032, E064, E231, E242, E273, F55, F551, G210, G211, G240, G251, G254, G256, G444, G620, G720, H263, I427, I952, J702, J703, J704, L105, L233, L244, L251, L270, L271, L432, L560, L561, L640, M022, M102, M320, M804, M814, M835, M871, N140, N141, N142, O355, P040, P041, P044, P584, P961, P962, R781, R782, R783, R784, R785, R786, R825.

FIGURE 46

DRUG-INDUCED DEATHS BY CAUSE

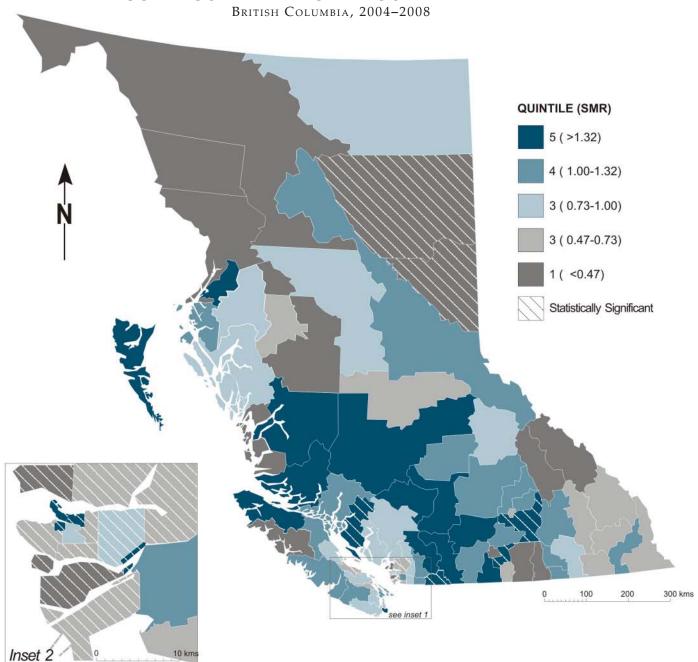


112		2004-	-2008			2009		
112		Observed		Observed	Expected	1	95% Confiden	ce Interval
Local	Health Area	Deaths	SMR (p)	Deaths	Deaths	SMR (p)	Lower	Upper
001	Fernie	4	0.53	1	1.27	0.79	0.01 -	4.38
002	Cranbrook	13	1.10	2	2.04	0.98	0.11 -	3.53
003 004	Kimberley Windermere	2 3	0.50 0.64	-	0.71 0.89	-		-
004	Creston	3	0.56	1	0.89	1.07	0.01 -	5.95
006	Kootenay Lake	1	0.55	-	0.32	-		-
007 009	Nelson Castlegar	12 7	0.99 1.11	-	2.09 1.09	-		-
010	Arrow Lakes	3	1.31	-	0.39	-		-
011	Trail	10	1.08	1	1.57	0.64	0.01 -	3.55
012 013	Grand Forks Kettle Valley	1	0.24	1 1	0.71 0.31	1.41 3.26	0.02 - 0.04 -	7.87 18.14
013	Southern Okanagan	5	0.59	1	1.52	0.66	0.01 -	3.66
015	Penticton	34	1.82 *	9	3.31	2.72 *	1.24 -	5.17
016 017	Keremeos Princeton	3	1.34 1.26	-	0.40 0.42	-		-
018	Golden	1	0.28	-	0.64	-		-
019	Revelstoke	1	0.25	1	0.67	1.50	0.02 -	8.33
020 021	Salmon Arm Armstrong - Spallumcheen	20 3	1.30 0.68	2 1	2.78 0.75	0.72 1.32	0.08 - 0.02 -	2.60 7.37
022	Vernon	41	1.40 *	8	5.20	1.54	0.66 -	3.03
023	Central Okanagan	89	1.11	14	14.77	0.95	0.52 -	1.59
024 025	Kamloops 100 Mile House	60 9	1.17 1.27	7	8.97 1.20	0.78	0.31 -	1.61
026	North Thompson	2	0.95	-	0.35			-
027	Cariboo - Chilcotin	18	1.40	4	2.16	1.85	0.50 -	4.75
028 029	Quesnel Lillooet	8 4	0.71 1.90	1 1	1.89 0.36	0.53 2.81	0.01 - 0.04 -	2.95 15.65
030	South Cariboo	5	1.46	3	0.59	5.11 +	1.03 -	14.92
031 032	Merritt Hope	9 7	1.66 1.83	1 -	0.92 0.64	1.09	0.01 -	6.06
032	Hope Chilliwack	50	1.83 1.38 *	8	0.64 6.39	1.25	0.54 -	2.47
034	Abbotsford	63	1.05	11	10.43	1.05	0.53 -	1.89
035 037	Langley Delta	44 32	0.75 0.66 *	7 5	10.19 7.95	0.69 0.63	0.28 - 0.20 -	1.42 1.47
037	Richmond	33	0.86 *	4	15.93	0.03	0.20 -	0.64
040	New Westminster	50	1.54 *	4	5.66	0.71	0.19 -	1.81
041 042	Burnaby Maple Ridge	78 36	0.73 * 0.83	7 10	18.59 7.49	0.38 * 1.33	0.15 - 0.64 -	0.78 2.45
042	Coquitlam	66	0.64 *	11	17.82	0.62	0.31 -	1.10
044	North Vancouver	43	0.64 *	12	11.39	1.05	0.54 -	1.84
045 046	West Vancouver-Bowen Is. Sunshine Coast	7 10	0.30 * 0.74	4 2	3.95 2.44	1.01 0.82	0.27 - 0.09 -	2.59 2.96
047	Powell River	17	1.80 *	2	1.59	1.26	0.14 -	4.53
048	Howe Sound	13	0.77	5	3.02	1.65	0.53 -	3.86
049 050	Bella Coola Valley Queen Charlotte	2 4	1.39 1.65	-	0.23 0.39	-		-
051	Snow Country	-	-	-	0.04	-		-
052	Prince Rupert	8	1.14	1	1.13	0.89	0.01 -	4.94
053 054	Upper Skeena Smithers	1 5	0.40 0.65	-	0.41 1.25	-		-
055	Burns Lake	-	-	-	0.61	-		-
056 057	Nechako Prince George	7 48	0.97 1.02	-	1.15 7.82	1.02	0.44 -	2.02
057	Peace River South	5	0.40 *	8 -	2.14	1.02	0.44 -	2.02
060	Peace River North	7	0.45 *	-	2.70	-		-
061 062	Greater Victoria Sooke	161 25	1.49 * 0.81	27 4	18.46 5.57	1.46 0.72	0.96 - 0.19 -	2.13 1.84
062	Saanich	25	0.85	4	5.01	0.80	0.19 -	2.04
064	Gulf Islands	8	1.11	2	1.31	1.53	0.17 -	5.51
065 066	Cowichan Lake Cowichan	23 3	0.89 0.99	5 1	4.46 0.53	1.12 1.88	0.36 - 0.02 -	2.62 10.45
067	Ladysmith	4	0.48	-	1.50	-		-
068	Nanaimo	46	0.97	11	8.30	1.32	0.66 -	2.37
069 070	Qualicum Alberni	11 16	0.56 * 1.06	3 5	3.58 2.54	0.84 1.97	0.17 - 0.64 -	2.45 4.60
071	Courtenay	26	0.89	6	5.16	1.16	0.42 -	2.53
072	Campbell River	26	1.30	5	3.41	1.47	0.47 -	3.42
075 076	Mission Agassiz - Harrison	25 7	1.26 1.74	4 1	3.41 0.69	1.17 1.46	0.32 - 0.02 -	3.00 8.12
077	Summerland	1	0.19	-	0.91	-	0.02	-
078	Enderby	4	1.15	-	0.60	-		-
080 081	Kitimat Fort Nelson	4 3	0.75 0.95	-	0.85 0.50	-		
083	Central Coast	-	-	1	0.11	9.19	0.12 -	51.14
084	Vancouver Island West	-	-	-	0.20	-		-
085 087	Vancouver Island North Stikine	9	1.44	2	1.00 0.08	2.00	0.22 -	7.22 -
088	Terrace	8	0.84	1	1.57	0.64	0.01 -	3.55
092	Nisga'a	2	2.21	-	0.15	-		-
094 161	Telegraph Creek Vancouver - City Centre	- 88	1.33 *	23	0.05 11.67	- 1.97 *	1.25 -	2.96
162	Vancouver - Downtown E.side	192	5.70 *	40	6.26	6.39 *	4.56 -	8.70
163	Vancouver - North East	36	0.72 *	9	8.69	1.04	0.47 -	1.97
164 165	Vancouver - Westside Vancouver - Midtown	39 40	0.60 * 0.90	2 6	10.94 7.61	0.18 + 0.79	0.02 - 0.29 -	0.66 1.72
166	Vancouver - South	34	0.52 *	5	10.96	0.46	0.15 -	1.06
201 202	Surrey South Surrey/White Rock	186 27	1.10 0.72	29 5	29.80 6.56	0.97 0.76	0.65 - 0.25 -	1.40 1.78
202	PROVINCIAL TOTAL	2,094	0.72 <b>1.00</b>	<b>363</b>	363.00	0.76 <b>1.00</b>	0.25 -	1.78 <b>1.11</b>

Note: \*Statistical testing indicates that observed deaths are significantly different from the expected deaths (p<0.05, two tailed). +Denotes significance based on less than five deaths. SMR - Standardized Mortality Ratio. Total includes residents with unknown LHA.

FIGURE 47

DRUG-INDUCED DEATHS BY LOCAL HEALTH AREA





Note: SMR - Standardized Mortality Ratio. Refer to Figure 1 to clarify geographical location of LHAs.

### **Drug Overdose Deaths**

This section provides information on deaths due to unintentional poisoning by illicit/illegal drugs. These deaths are a small portion of deaths due to unintentional poisoning by drugs, and exclude accidental poisoning by drugs in therapeutic use.

Data on unintentional illicit/illegal drug deaths are retrieved from the Coroners' Medical Certificate of Death. This section only considers deaths where an overdose occurred and was determined to be the underlying cause of death. Deaths due to conditions that may arise from substance abuse, such as Hepatitis 'B' and 'C' and HIV, are excluded from consideration.

Among the substances implicated in these overdoses, there are those generally referred to as "illicit drugs" – heroin, cocaine, and "psychostimulants with abuse potential" including "crystal meth" (methamphetamine hydrochloride) and "ecstasy" (methylenedioxy-methamphetamine). A more precise term for these chemicals might be "illegal" drugs as there is no medically recognized, legal use for either "ecstasy" or "crystal meth". Although both heroin and cocaine have very limited therapeutic uses, in circumstances where a fatal overdose has occurred it is almost certain that these drugs would have been obtained via illegal means.

On the other hand, where morphine is implicated, it is possible that some of the deaths involved legally obtained drugs because morphine is prescribed for chronic and/or severe pain (such as that associated with advanced cancer) and if taken improperly could result in an unintentional overdose. Unfortunately, it is not always possible to differentiate whether an opiate overdose was caused by heroin or morphine, as the information received on the coroners' final reports does not consistently differentiate. Often coroners record "morphine type" overdose, hence the label "heroin/morphine type".

Although methadone is often used legally in the treatment of opiate addiction, a number of deaths are occurring as the result of unintentional methadone overdoses. Therefore, it would appear that methadone is being used in unsanctioned ways resulting in death.

Table 46 shows that deaths due to unintentional overdoses are not confined to any one area in the province. ASMRs for 2009 at the time of reporting appear to have declined in all areas. However, as with other externally caused deaths, reporting is often delayed due to the time required for coroners to complete and report their findings to the Agency. Therefore, these results should be viewed with caution.

Table 47 and Figure 48 depict a general decline in drug overdose fatalities. The ASMR has been consistently much higher for males than for females.

Table 46

### ASMR FOR UNINTENTIONAL ILLICIT/ILLEGAL OVERDOSE DEATHS BY HEALTH AUTHORITY

British Columbia, 2003-2009

Health Authority	2003	2004	2005	2006	2007	2008	2009
01 Interior	0.78	0.75	0.71	0.53	0.66	0.52	0.40
02 Fraser	0.43	0.41	0.58	0.68	0.43	0.47	0.30
03 Vancouver Coastal	0.49	0.58	0.63	0.61	0.51	0.41	0.51
04 Vancouver Island	0.71	0.75	0.64	0.75	0.60	0.63	0.46
05 Northern	0.43	0.40	0.37	0.18	0.47	0.39	0.18
PROVINCIAL TOTAL	0.54	0.56	0.60	0.61	0.51	0.49	0.39

Note:

Deaths that are still under investigation may later be identified as unintentional illicit/illegal overdose deaths. ASMR - Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census). Non-residents are excluded.

Table 47

### ASMR FOR UNINTENTIONAL ILLICIT/ILLEGAL OVERDOSE DEATHS BY GENDER

British Columbia, 2003-2009

Gender	2003	2004	2005	2006	2007	2008	2009
Male	0.82	0.83	0.92	0.93	0.75	0.66	0.56
Female	0.26	0.29	0.29	0.30	0.28	0.31	0.22
TOTAL	0.54	0.56	0.60	0.61	0.51	0.49	0.39

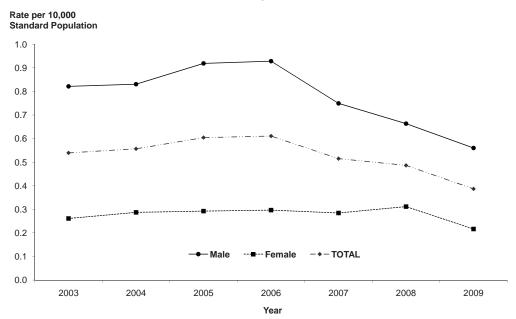
Note:

Deaths that are still under investigation may later be identified as unintentional illicit/illegal overdose deaths. ASMR - Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census). Non-residents are excluded.

### Figure 48

### ASMR FOR UNINTENTIONAL ILLICIT/ILLEGAL OVERDOSE DEATHS BY GENDER

BRITISH COLUMBIA, 2003-2009



See Table 47 for notes.

### Vital Statistics Information Box

### UNINTENTIONAL ILLICIT/ILLEGAL DRUG DEATHS

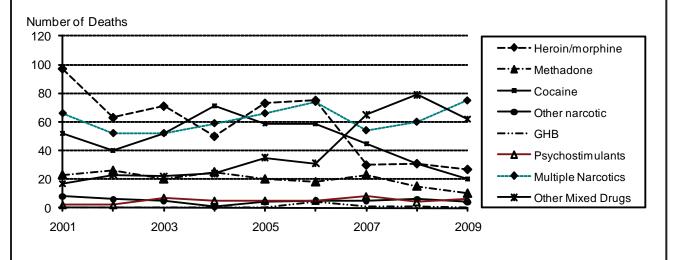
British Columbia, 2001-2009

In 1993, British Columbia experienced an unprecedented "high water" mark in unintentional drug overdoses. In that year, 470 people died as the result of unintentional poisoning by drugs. Over 300 of these were determined to be the result of illicit drug use. These included heroin and other opiates, methadone, and cocaine, used alone or in various combinations or with a variety of other substances being used illicitly.

This information box provides a code-based analysis of deaths due to unintentional illicit drug overdoses in British Columbia since 2001. It is important to note that numbers for 2009 (and to a certain extent previous years) may be revised upwards as final reports from investigating coroners are submitted to the Agency for processing. This analysis includes deaths where unintentional drug overdose was determined to be the "underlying cause of death" (see Glossary for the definition of this term), and where the offending substances included selected "narcotics and psychodsleptics" - heroin, morphine, methadone, and cocaine - and "psychostimulants with abuse potential", specifically so-called "crystal meth" (methamphetamine hydrochloride) and "ecstasy" (methylenedioxymethamphetamine). "Mixed drug overdoses" included at least one of the above substances, as well as any other drug. A seperate total for deaths in which mixed narcotics, such as heroin with cocaine, were implicated is also included because multiple narcotic substances are used in combination relatively frequently.

### Unintentional Illicit/Illegal Overdose Deaths by Type of Drug

British Columbia, 2001-2009



### Vital Statistics Information Box

### Counts of Deaths by Causative Substances

Over the past nine years, deaths involving single heroin/morphine type drug use appear to be declining slightly. On the other hand, deaths where cocaine was the only substance implicated appear to be on the increase, along with deaths from combined narcotics.

Deaths from the combined use of illicit drugs with other drugs (other than narcotics) have risen sharply since 2007 and remained the leading cause of illicit drug overdose in 2008. Multiple narcotics became the leading cause of illicit drug overdose in 2009.

The use of psychostimulants is a relatively new phenomenon. Its place as the direct cause of unintentional overdose does not appear to be rising. It is interesting to note that methadone, a substance used in the treatment of heroin addiction, is apparently being used illicitly and causing overdose deaths itself.

### OVERDOSE DEATHS BY TYPE OF DRUG

British Columbia, 2001-2009

Drug	2001	2002	2003	2004	2005	2006	2007	2008	2009
Heroin/morphine type only	97	63	71	50	73	75	30	31	27
Methadone only	23	26	20	25	20	18	23	15	10
Cocaine only	52	40	52	71	59	59	45	31	20
Other narcotic/	8	6	5	1	4	5	5	6	4
hallucinongen only									
GHB only	0	0	0	0	0	4	1	1	0
Physchostimulants* only	2	2	7	5	5	5	8	4	6
Multiple narcotics	66	52	52	59	66	74	54	60	75
Other mixed drugs	17	23	22	24	35	31	65	79	62
TOTAL	265	212	229	235	262	271	231	227	204

Note:

Deaths that were still under investigation may later be identified as unintentional illicit/illegal overdose deaths. \*ICD-10 codes for psychostimulants include "crystal meth" and "ecstasy".

Unintentional illicit/illegal drug overdose deaths (X41, X42, X44) include these specified drug injury categories:

- 1) T40.0, T40.1, or T40.2 for heroin/morphine type.
- 2) T40.3 for methadone.
- 3) T40.5 for cocaine.
- 4) T40.4, T40.6, T40.9 for other narcotic/hallucinogen.
- 5) T41.2 for gamma hydroxybutyrate (GHB).
- 6) T43.6 for psychostimulant\*.

Multiple Narcotic deaths involve mixed drugs from categories 1 - 4 only.

Other Mixed Drug deaths include one illicit drug from categories 1 - 6 (T40.0-T40.9, T41.2, T43.6) and one or more other drugs (T36.0-T48.6, T52.8, T53.9) and are not multiple narcotic deaths.

Non-residents are excluded.

### **Accidental Fall Deaths**

In 2009, there were 1,700 deaths due to external causes among BC residents and of these, unintentional (accidental) deaths comprised over 67.7 percent (1,151) of non-natural deaths. Overall, falls were the leading cause of unintentional death, contributing 36.2 percent to this category in 2009 and exceeding fatal motor-vehicle incidents 417 to 252 (see Table 30).

Analysis of various causes of unintentional (accidental) mortality in 2009 shows that more females died as the result of a fall than males did. Of unintentional mortality, 28.4 percent of male deaths were the result of falls. In contrast, 49.0 percent of female unintentional mortality was the result of falls.

While fatal falls occur across the lifespan of British Columbians, the elderly are far more likely to succumb to the effects of a fall.

The data discussed so far only include events where the fall was determined to be the underlying cause of death (direct). There are additional deaths that involve accidental falls, but where the fall was considered to be only a contributing factor (indirect).

Table 48 and Figure 49 show how age specific rates compare between the two categories (direct and indirect) of fall-related deaths in BC for individuals aged 60 and older. Indirect fall-related deaths are more frequent among the over 70 age group than direct fall deaths; however, in the 60-69 age groups, direct fall deaths are more frequent.

The BC Injury Research and Prevention Unit (BCIRPU) is a national leader in falls injury research and in the design and implementation of falls prevention strategies. A summary of the initiatives undertaken by the BCIRPU can be viewed at the Unit's website: <a href="http://www.injuryresearch.bc.ca/index.aspx">http://www.injuryresearch.bc.ca/index.aspx</a> under "Falls Prevention" in the "Injury Topics" menu.

TABLE 48

DEATHS DIRECTLY AND INDIRECTLY

### DUE TO FALLS BY AGE BRITISH COLUMBIA, 2003–2009

	Age	20	03	20	04	200	05	200	)6	200	07	20	800	20	009
Cause of Death	(inYears)	Counts	ASR												
Directly due to falls															
	60-69	23	0.67	18	0.50	24	0.65	25	0.64	20	0.48	28	0.64	32	0.70
	70-79	52	2.03	44	1.71	65	2.50	56	2.12	49	1.83	62	2.28	63	2.28
	<del>80+</del>	231	15.54	221	14.27	216	13.46	195	11.73	221	12.83	230	12.92	278	15.07
Indirectly due to fall	S														
	60-69	20	0.58	21	0.59	21	0.56	24	0.62	20	0.48	23	0.53	21	0.46
	70-79	86	3.36	89	3.45	74	2.84	77	2.92	90	3.37	89	3.28	78	2.83
	<del>80+</del>	441	29.67	495	31.97	405	25.24	450	27.06	462	26.82	517	29.03	478	25.90

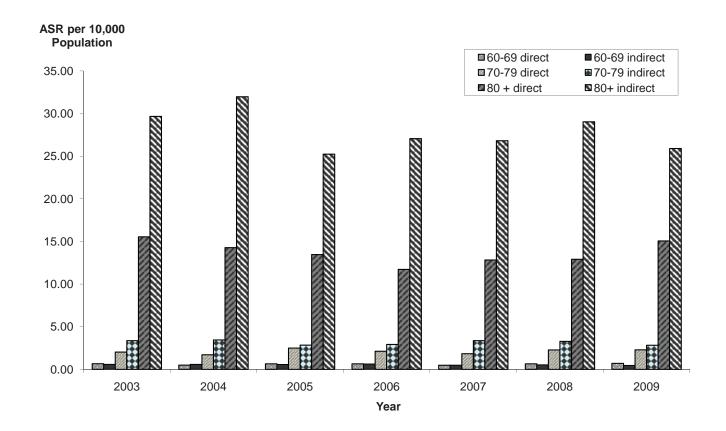
Note: ASR - Age Specific Rate per 10,000 population.

FIGURE 49

DEATHS DIRECTLY AND INDIRECTLY

DUE TO FALLS, AGES 60-80+

British Columbia, 2003-2009



### **Burials and Cremations**

Table 49 shows the method used to dispose of decedents' remains.

In 2009, 80.7 percent of deaths resulted in cremations (25,190) and 18.7 percent involved burials (5,842).

Since 1986, the percentage of burials has consistently decreased.

 $\begin{array}{c} \text{Table 49} \\ \text{METHOD OF DISPOSITION OF DECEDENT} \end{array}$ 

British Columbia, 1986–2009

	Bu	rial	Crem	ation			
Year	Number	Percent	Number	Percent	Other	N.S.	Total
1986	8,204	39.0	12,686	60.4	98	21	21,009
1987	8,211	38.0	13,279	61.4	104	24	21,618
1988	8,319	37.2	13,926	62.3	96	16	22,357
1989	8,061	35.4	14,616	64.1	81	28	22,786
1990	8,208	35.1	15,088	64.4	91	29	23,416
1991	8,035	33.7	15,675	65.8	75	35	23,820
1992	7,818	32.0	16,512	67.5	97	36	24,463
1993	7,989	31.2	17,214	67.2	151	251	25,605
1994	7,712	29.9	17,888	69.2	177	55	25,832
1995	7,615	29.0	18,361	70.0	186	63	26,225
1996	7,640	27.9	19,545	71.4	195	12	27,392
1997	7,359	27.0	19,651	72.1	208	46	27,264
1998	7,197	25.9	20,378	73.3	225	9	27,809
1999	7,062	25.3	20,633	74.0	198	-	27,893
2000	6,469	23.7	20,695	75.7	187	1	27,352
2001	6,687	23.7	21,331	75.5	223	1	28,242
2002	6,541	22.8	21,979	76.5	192	3	28,715
2003	6,608	22.7	22,362	76.7	187	-	29,157
2004	6,380	21.5	23,162	77.9	185	-	29,727
2005	6,281	20.9	23,633	78.5	186	-	30,100
2006	6,361	20.8	24,013	78.6	168	-	30,542
2007	6,148	19.8	24,804	79.7	168	-	31,120
2008	6,311	19.8	25,395	79.6	195	-	31,901
2009	5,842	18.7	25,190	80.7	195	-	31,227

Note: Percent is based on total deaths in the specified year.

Other includes remains not recovered and donations as per will of deceased.

N.S. – Not stated.

Non-residents are excluded.

### Vital Statistics Information Box

	METHOD OF D	DISPOSITION	BY DECEDI	ENT'S LOCAL	HEALTH AREA	of Resil	DENCE
	British Columbia, 2009					1	
Local He	alth Aroa	Buri Number	al Percent	Crema Number	Percent	Other	Total
001	Fernie	23	24.5	71	75.5	-	94
002	Cranbrook	40	16.9	196	82.7	1	237
003 004	Kimberley	9	9.4 12.8	87 40	90.6 85.1	- 1	96 47
004	Windermere Creston	36	22.4	125	77.6	-	161
006	Kootenay Lake	3	10.3	26	89.7	-	29
007	Nelson	38	20.0	150	78.9	2	190
009 010	Castlegar Arrow Lakes	40 3	37.4 8.1	67 34	62.6 91.9	-	107 37
010	Trail	37	15.9	194	83.6	1	232
012	Grand Forks	30	27.8	78	72.2	-	108
013	Kettle Valley	2	8.7	21	91.3	-	23
014 015	Southern Okanagan Penticton	40 73	15.2 12.7	223 499	84.8 86.9	2	263 574
016	Keremeos	10	15.4	54	83.1	1	65
017	Princeton	5	8.5	54	91.5	-	59
018	Golden	6	15.4	33	84.6	-	39
019 020	Revelstoke Salmon Arm	10 54	16.1 15.8	51 287	82.3 83.9	1 1	62 342
020	Armstrong-Spallumcheen	10	12.2	72	87.8		82
022	Vernon	108	17.4	509	82.2	2	619
023	Central Okanagan	256	16.5	1,292	83.3	3	1,551
024 025	Kamloops 100 Mile House	99 19	11.8 13.4	731 122	87.0 85.9	10 1	840 142
025	North Thompson	6	17.1	29	82.9		35
027	Cariboo-Chilcotin	51	24.8	154	74.8	1	206
028	Quesnel	25	14.8	143	84.6	1	169
029 030	Lillooet South Cariboo	18 18	37.5 23.4	30 59	62.5 76.6	-	48 77
030	Merritt	18	17.6	84	82.4	-	102
032	Hope	23	22.8	78	77.2	-	101
033	Chilliwack	136	18.4	604	81.5	1	741
034 035	Abbotsford	264 131	29.0 14.7	645 755	70.8 84.8	2 4	911 890
035	Langley Delta	84	12.9	562	86.3	5	651
038	Richmond	231	26.3	639	72.9	7	877
040	New Westminster	85	17.7	391	81.3	5	481
041 042	Burnaby Maple Ridge	350 89	26.0 14.9	968 503	72.0 84.1	26 6	1,344 598
042	Coquitlam	191	14.9	805	80.1	9	1,005
044	North Vancouver	125	15.8	661	83.4	7	793
045	West Vancouver-Bowen Is.	69	14.8	394	84.4	4	467
046 047	Sunshine Coast Powell River	29 20	10.7 9.5	242 181	89.0 85.8	1 10	272 211
047	Howe Sound	22	18.2	99	81.8	-	121
049	Bella Coola Valley	9	64.3	5	35.7	-	14
050	Queen Charlotte	17	50.0	17	50.0	-	34
051 052	Snow Country	- 28	31.1	4 62	100.0 68.9	-	4 90
052	Prince Rupert Upper Skeena	14	60.9	9	39.1	-	23
054	Smithers	24	27.9	62	72.1	-	86
055	Burns Lake/Eutsuk	20	33.3	40	66.7	-	60
056 057	Nechako Prince George	34 104	33.7 18.0	67 475	66.3 82.0	-	101 579
059	Peace River South	57	32.4	119	67.6	-	176
060	Peace River North	45	31.7	97	68.3	-	142
061	Greater Victoria	264	12.4	1,858	87.2	8	2,130
062 063	Sooke Saanich	43 69	11.9 10.9	319 561	88.1 88.9	- 1	362 631
064	Gulf Islands	13	8.8	133	90.5	1	147
065	Cowichan	54	12.3	384	87.5	1	439
066	Lake Cowichan	2	5.1	37	94.9	-	39
067 068	Ladysmith Nanaimo	48 84	19.4 9.6	199 789	80.6 90.2	2	247 875
069	Qualicum	35	6.6	495	93.4	-	530
070	Alberni	52	17.4	247	82.6	-	299
071	Courtenay	44 27	8.3	488	91.7	-	532
072 075	Campbell River Mission	30	8.5 11.5	291 231	91.5 88.5	-	318 261
076	Agassiz-Harrison	25	32.5	51	66.2	1	77
077	Summerland	16	12.0	117	88.0	-	133
078	Enderby	13	19.1	55 44	80.9	•	68
080 081	Kitimat Fort Nelson	29 7	41.4 30.4	41 16	58.6 69.6		70 23
083	Central Coast	10	83.3	2	16.7	-	12
084	Vancouver Island West	2	15.4	11	84.6	-	13
085	Vancouver Island North	19 4	26.0	54 1	74.0	-	73 5
087 088	Stikine Terrace	51	80.0 34.7	1 96	20.0 65.3	-	5 147
092	Nisga'a	10	100.0	-	0.0	-	10
094	Telegraph Creek	2	66.7	1	33.3	-	3
161	Vancouver - City Centre	116	17.1	558 327	82.2 60.6	5	679 470
162 163	Vancouver - Downtown E.side Vancouver - North East	134 256	28.5 44.0	327 309	69.6 53.1	9 17	470 582
164	Vancouver - Westside	169	23.8	535	75.2	7	711
165	Vancouver - Midtown	166	36.6	280	61.7	8	454
166 201	Vancouver - South	282 360	33.7 20.2	546 1 417	65.2 79.3	9 9	837
201	Surrey South Surrey/White Rock	109	20.2 12.9	1,417 737	79.3 87.0	1	1,786 847
	PROVINCIAL TOTAL	5,842	18.7	25,190	80.7	195	31,227
N. T.	l includes residents with:	1 7774					

Note: Total includes residents with unknown LHA.

# Marriage-related Statistics



### Vital Statistics Information Box

### MARRIAGES BY OTHER NON CHRISTIAN DENOMINATIONS

British Columbia, 2009

Table 52, Religious Representatives on Register and Marriages Performed by Religious Denomination uses religious denomination categories from Statistics Canada. In 2009, a total of 1,228 marriages in British Columbia were solemnized by representatives of Other Non Christian religions. The table below provides additional details about these marriages.

Religious Denomination	Number of Religious Representatives	Number Who Performed Marriages	Number of Marriages Performed
Baha'i	102	30	50
Buddhist	27	11	34
Eckankar	16	-	-
Hindu	30	22	85
Muslim	69	39	163
Sangam	10	4	11
Scientology	9	2	2
Sikh	144	50	553
Spiritualist	104	54	315
Wiccan	13	6	10
Other*	9	4	4
Total	533	222	1,227

Note: \*Other consists of religious denominations where the representatives performed less than 5 marriages in 2009: Unknown, Konko-Kyo, and Zoroastrian.

## Marriage Introduction

The Agency records all marriages that occurred in BC. Unlike the birth and death statistics, which are based on usual residence, marriage information includes all marriages performed in the province whether the parties were residents or non-residents. The Agency does not record divorce decrees. The tables in this section contain information about marriages by previous marital status, ages of the parties involved, and type of ceremony.

In Table 50, the 22,469 marriages are categorized by the previous marital status of each partner. In 2009, in 67.2 percent (15,104) of marriages, both partners were marrying for the first time, and in 17.8 percent of marriages (3,997), one of the partners was marrying for the first time. There were 2,668 marriages (11.9 percent) where both partners were previously divorced.

Table 51 shows number of marriages by ages of those marrying in 2009. There were 7,287 marriages (32.4 percent) where both parties were in their 20s and 4,190 marriages (18.6 percent) where both parties were in their 30s. There were also 345 marriages (1.5 percent) where at least one party was in their teens and 1,235 marriages (5.5 percent) where at least one of those marrying was 60 years or older.

Table 52 indicates that there were 7,746 registered religious representatives in BC but less than half of them (3,167) solemnized marriages in 2009. In total, 8,499 (37.8 percent) of all marriages in 2009 were solemnized by religious representatives.

Table 53 shows the number of marriages performed by marriage commissioners, both private and public servants, and the number of each type of commissioner with appointments in 2009.

Table 53 shows that in 2009, 62.2 percent of marriages were civil marriages performed by commissioners. Since 1988, when 42.5 percent of marriages were performed by commissioners, the share of civil marriages has risen steadily.

TABLE 50
MARRIAGES BY MARITAL STATUS

British Columbia, 2009

	Single	Widowed	Divorced	N.S.
Single	15,104			
Widowed	159	183		
Divorced	3,838	517	2,668	
N.S.	-	-	-	-

Note: N.S. - Not stated.

TABLE 51

MARRIAGES BY AGE
BRITISH COLUMBIA, 2009

Age (in Years)										
	15–19	20-24	25-29	30-34	35–39	40-44	45-49	50-59	60+	N.S.
15-19	56									
20-24	212	1,615								
25-29	64	2,019	3,653							
30-34	9	478	2,838	1,887						
35-39	3	118	760	1,549	754					
40-44	1	47	194	452	750	418				
45-49	-	15	51	134	324	552	312			
50-59	-	6	24	60	155	342	642	740		
60+	-	-	7	9	29	49	114	484	543	
N.S.	-	-	-	-	-	-	-	-	-	-
	I									

Note: N.S. – Not stated.



Table 52

## RELIGIOUS REPRESENTATIVES ON REGISTER AND MARRIAGES PERFORMED BY RELIGIOUS DENOMINATION

British Columbia, 2009

Religious Denomination	Number of Religious Representatives	Number Who Performed Marriages	Number of Marriages Performed
Anglican	495	212	491
Baptist	833	341	686
Eastern Orthodox	59	16	59
Jewish	36	15	57
Lutheran	261	109	231
Mennonite/Hutterite	446	214	432
Pentecostal	853	313	853
Presbyterian	230	95	155
Catholic	537	239	997
Salvation Army	183	42	74
Jehovahs Witness	87	57	125
United Church	501	264	754
Other Christian Religions	2,681	1,023	2,329
Other Non Christian Religions	533	222	1,228
Unknown/Not Stated	11	5	28
Total	7,746	3,167	8,499

Note: Religious categories shown above are from Statistics Canada. Individuals with temporary appointments are counted once for each appointment.

Table 53

# MARRIAGE COMMISSIONERS ON REGISTER BY TYPE AND MARRIAGES PERFORMED

British Columbia, 2009

Type of Commisioner	Number of Commissioners	Number Who Performed Marriages	Number of Marriages Performed
Private Commissioner*	521	482	13,967
Public Servant	9	2	3
Total	530	484	13,970

Note: Individuals with temporary appointments are counted once for each appointment. \* Includes 171 temporary appointments.

### Vital Statistics Information Box

Washington	<b>U</b> SUAL F	Residence of Persons Marri Opposite Sex M		IBIA IN <b>2009</b>
British Columbia   19,434   19,602   Alberta   1,193   1,156   Ontario   263   243   243   248   248   249	Area	Province/State or Country	Males	Females
Nunavut   S	Canada	British Columbia Alberta Ontario Saskatchewan Manitoba Quebec Northwest Territories Yukon Nova Scotia	19,434 1,193 263 75 44 29 14 13	19,602 1,156 243 73 41 30 14 10
Washington				
South America           Mexico Other         4         8           Europe         Total         193         173           United Kingdom Germany         122         99           Germany         27         32           Scandinavian Countries         9         9           Switzerland         11         10           Republic of Ireland         7         4           Italy         5         2           Other         12         17           Asia & Middle East         Total         39         58           Japan         10         16           Hong Kong         11         14           China         7         10           Taiwan         3         5           Other         8         13           Africa         Total         3         3           Oceania         Total         42         37           Australia         32         29           New Zealand         9         7           Other         1         1	United States	Washington California Oregon New York Texas Florida Massachusetts Georgia Illinois Alaska Missouri Arizona Minnesota Hawaii Ohio Nevada Montana	160 106 18 22 19 13 8 8 9 6 4 8 9 5 2 2	112 79 20 19 17 11 9 8 7 7 6 6 5 5
United Kingdom   122   99     Germany   27   32     Scandinavian Countries   9   9     Switzerland   11   10     Republic of Ireland   7   4     Italy   5   2     Other   12   17     Asia & Middle East   Total   39   58     Japan   10   16     Hong Kong   11   14     China   7   10     Taiwan   3   5     Other   8   13    Africa   Total   3   3    Oceania   Total   42   37     Australia   32   29     New Zealand   9   7     Other   1   1	Mexico, Central & South America	Mexico	4	8
Hong Kong 11 14 China 7 10 Taiwan 3 5 Other 8 13  Africa Total 3 3  Oceania Total 42 37 Australia 32 29 New Zealand 9 7 Other 1 1	Europe Asia & Middle East	United Kingdom Germany Scandinavian Countries Switzerland Republic of Ireland Italy Other Total	122 27 9 11 7 5 12 <b>39</b>	99 32 9 10 4 2 17 58
Oceania         Total         42         37           Australia         32         29           New Zealand         9         7           Other         1         1		Hong Kong China Taiwan	7 3 8	10 5 13
Australia       32       29         New Zealand       9       7         Other       1       1	Africa	Total	3	3
Unknown Total 4	Oceania	Australia New Zealand	32 9	29 7
Olikilowii lotai l -	Unknown	Total	1	-
TOTAL 21,869 21,869	TOTAL		21,869	21,869

### Vital Statistics Information Box

Usual Residence of Persons Married in British Columbia in 2009  Same Sex Marriages				
Area	Province/State or Country	Males	Females	
Canada	Total	360	416	
	British Columbia	339	396	
	Alberta	19	12	
	Ontario	2	4	
	Nova Scotia	-	2	
	Saskatchewan	-	2	
United States	Total	98	202	
	Washington	18	39	
	Texas	8	26	
	Oregon	14	20	
	Arizona	2	19	
	California	24	16	
	New York	4	10	
	Georgia	6	6	
	Virginia	2	6	
	Utah	1	6	
	New Mexico	1	5	
	Hawaii	2	4	
	Other	16	45	
Mexico, Central & South America	Total	1	2	
Europe	Total	14	16	
	United Kingdom	1	10	
	Other	13	6	
Asia & Middle East	Total	21	36	
	Hong Kong	8	12	
	China	-	12	
	Singapore	2	4	
	Israel	5	2	
	Other	6	6	
Africa	Total	2	-	
Oceania	Total	8	24	
	Australia	6	24	
	New Zealand	2	-	
Unknown	Total	-	-	
TOTAL		504	696	

# Glossary



# Glossary Terms

#### ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS)

(See HIV Disease.)

#### AGE-SPECIFIC FERTILITY RATE (ASFR)

The rate of live births per 1,000 women for the specific age group. This is a more detailed measure than the crude birth rate, as it reflects variations in the birth rate by age groups of the female population.

(See ASFR under Fertility Rate in the Methodology section for an example.)

#### **AGE STANDARDIZATION**

Age standardization is a method of calculation which adjusts a statistical measure for differences in the age/gender structures between populations. With standardized measures, more meaningful comparisons can be made between genders, different time periods, or geographic areas because the age standardized statistic is calculated as if all populations had the same age/gender population distribution.

The age standardized measures in this report include **Age Standardized Mortality Rate (ASMR)**, **Standardized Mortality Ratio (SMR)**, **Potential Years of Life Lost Standardized Rate (PYLLSR)**, and **Potential Years of Life Lost Index (PYLLI)**. (See the above headings in the Methodology section for examples.)

#### AGE STANDARDIZED MORTALITY RATE (ASMR)

A summary of age-adjusted death rates by age and gender, which have been standardized to a 'standard' population (1991 Canada Census) for the purpose of rate comparisons between genders, different time periods, or different geographic locations. The ASMR is the theoretical number of deaths that would occur per 10,000 population, if the specific population had the same age structure as the standard population. Age standardization is used for comparisons because populations vary in the proportions of the various ages of the individuals that comprise them, and such differences would in themselves tend to affect the disease occurring in each of the populations.

(See also **Age Standardization** and **Standard Population.** See **Age Standardized Mortality Rate** in the Methodology section for an example.)

### AIDS

(See HIV Disease.)

### ALCOHOL-RELATED DEATHS

Alcohol-related deaths include deaths where alcohol was a contributing factor (indirectly related) as well as those due to alcohol (directly related). Alcohol-related and drug overdose deaths are the only cause of death categories that are not based entirely upon underlying causes of death.

The ICD-10 codes for deaths due to the use or abuse of alcohol (directly related) are shown in Table 39. If any of the conditions listed as directly related to alcohol are noted on the Medical Certificate as antecedent causes giving rise to the underlying cause or as other significant conditions contributing to the death, the death is considered to be indirectly related to alcohol.

Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality. With the introduction of ICD-10 in 2000, more specific codes are available. Currently produced data should not be used in combination with data produced prior to 2000.

#### **ASFR**

(See Age Specific Fertility Rate.)

#### **ASMR**

(See Age Standardized Mortality Rate.)

#### **AVERAGE AGE**

The average ages of brides, grooms, and mothers of newborns in this annual report are calculated based on information provided on marriage or birth registration forms. The average ages of the population living in data dissemination areas are based on the mid-year population estimates for five-year age groups.

#### AVERAGE AGE POPULATION

The average age of the population is a grouped average based on the mid-year population estimates for five-year age groups. This information is provided by BCSTATS, Ministry of Citizens' Services.

#### **BIRTH ORDER**

Denotes the number position of the present birth relative to previous live births. That is, whether the live birth being counted is the 1st, 2nd, 3rd, etc. live born infant to a particular mother.

### **BIRTH RATE**

The number of live births divided by the mid-year population and converted to a rate per 1,000 population.

#### **BIRTH RELATED STATISTICS**

The birth related statistics shown in this report include teenage mother, elderly gravida, C-section, low birth weight, and pre-term live birth rates.

### **BIRTH WEIGHT**

The first weight of the fetus or newborn after birth. For live births this weight should be measured within the first hour of life before significant postnatal weight loss has occurred. Hospitals in BC measure weight in grams; the approximate equivalents in imperial measures are included below for comparisons to other jurisdictions. For statistical and risk assessment purposes, birth weights are grouped as:

Low Birth Weight (LBW) less than 2,500 grams (< 5 lb 8 oz)</li>

• "Healthy" Weight 2,500 to 4,499 grams (5 lb 8 oz - 9 lb 15 oz)

• High Birth Weight 4,500 grams or more (> 9 lb 15 oz)

Low birth weight is sometimes further divided into these overlapping categories:

Extremely Low Birth Weight less than 500 grams (< 1 lb 2 oz)</li>
 Very Low Birth Weight less than 1,500 grams (< 3 lb 5 oz)</li>

In recent years there has been an increasing preference to identify high birth weight as Large for Gestational Age, which is above the 90<sup>th</sup> percentile of the birth weight distribution at each gestational age.

#### **BIRTHS**

(See Total Births.)

### **BREECH**

A delivery in which the buttocks or feet appear first.

See also Mode of Delivery.

### **C-SECTION**

A delivery by cesarean, involving the surgical incision of the abdomen and uterine walls. See also **Mode of Delivery**.

### **C-SECTION RATES**

The number of live births, delivered by cesarean divided by the number of live births and converted to a rate per 1,000 live births.

#### **CESAREAN**

A delivery involving the surgical incision of the abdomen and uterine walls.

#### See also Mode of Delivery.

#### **COMMUNITY**

A geographical area defined by a municipal (city, town, village, district municipality, Indian Government district, island municipality, or resort municipality) boundary. In this report, data are only provided for incorporated communities.

#### **CONFIDENCE INTERVAL**

A measure of the variability of a statistic. A wide confidence interval indicates that the statistic is likely to fall within a wide range of values, while a narrow confidence interval indicates the statistic is likely to fall within a narrow range of values. In general, statistical confidence intervals will be wider for areas with small populations or rare events than for areas with larger populations or more common events.

(See Statistical Tests of Significance at the end of the Methodology section.)

#### **CONGENITAL ANOMALIES**

Physical defects that existed or date from birth.

#### **CRUDE RATES**

#### For live births:

The crude rate is the number of live births divided by the mid-year population and converted to a rate per 1,000 population.

#### For birth-related statistics (teenage mother, elderly gravida, C-section, low birth weight, and pre-term):

The rate is the number of these births divided by the number of live births and converted to a rate per 1,000 live births.

#### For stillbirths and perinatal deaths:

The rate is the number of stillbirths or perinatal deaths divided by the number of total births (live births plus stillbirths) and converted to a rate per 1,000 total births.

#### For infant deaths:

The crude rate is the number of infant deaths divided by the number of live births and converted to a rate per 1,000 live births.

#### For maternal deaths:

The rate is the number of maternal deaths divided by the number of live births and converted to a rate per 10,000 live births.

#### For deaths and mortality statistics:

The crude rate is the number of deaths divided by the mid-year population and converted to a rate per 1,000 population.

#### For marriages:

The crude rate is the number of marriages divided by the mid-year population and converted to a rate per 1,000 population.

#### **DEATH RATE**

The number of deaths divided by the mid-year population and converted to a rate per 1,000 population.

#### DEATHS DUE TO MEDICALLY TREATABLE DISEASES

(See Medically Treatable Diseases.)

#### **DRUG-INDUCED DEATHS**

Deaths due to drug-induced causes. This category of deaths excludes unintentional injuries, homicides, and other causes that could be indirectly related to drug use. Deaths directly due to alcohol are also excluded. The causes of death classified as being drug-induced (shown in Table 44 with their ICD-10 codes) are based on those used by the National Center for Health Statistics.<sup>1</sup>

#### **DRUG OVERDOSE DEATHS**

Deaths where the underlying cause of death was determined to be unintentional poisoning by illicit/illegal drugs. These deaths are a small portion of the deaths due to unintentional poisoning by drugs, and exclude accidental poisoning by drugs in therapeutic use. Deaths due to conditions that may arise from substance abuse, such as Hepatitis 'B' and 'C' and HIV, are also excluded.

Drug overdose deaths can be divided according to drug type: heroin/morphine, methadone, cocaine, psychostimulants including "crystal meth" (methamphetamine hydrochloride) and "ecstasy" (methylenedioxymethamphetamine), and other mixed drugs. The ICD-10 codes for these deaths are shown in Table 46. It should be noted that specified drug (nature of injury) codes must also be listed on the Medical Certificate for the death to be considered a drug overdose.

#### **EARLY NEONATAL DEATH**

Death of a child under seven days of age.

See also Infant Death.

#### **ELDERLY GRAVIDA**

Any woman who was 35 years of age or older at the time of delivery of a live born infant.

#### **ELDERLY GRAVIDA RATE**

The number of live births delivered by women aged 35 years or older divided by the number of live births and converted to a rate per 1,000 live births.

#### **EXPECTED CESAREAN BIRTHS**

The number of live births delivered by cesarean section that would be expected to be born to residents of a sub-provincial geographic area, based on the C-section rate for the province as a whole and the number of births in the sub-provincial geographic area.

(See **Observed versus Expected Ratio** in the Methodology section for an example.)

#### **EXPECTED DEATHS**

The number of deaths expected for residents of a sub-provincial geographic area, based on the age specific mortality rates for the province as a whole and the population age structure of the sub-provincial geographic area. (See **Standardized Mortality Ratio** in the Methodology section for an example.)

#### **EXPECTED LOW BIRTH WEIGHT**

The number of live births with low birth weight (less than 2,500 grams) that would be expected to be born to residents of a sub-provincial geographic area, based on the low birth weight rate for the province as a whole and the number of live births in the sub-provincial geographic area.

(See Observed versus Expected Ratio in the Methodology section for an example.)

#### **EXPECTED MATERNAL COMPLICATIONS**

The number of live births with maternal complications that would be expected to be born to residents of a sub-provincial geographic area, based on the complication rate for the province as a whole and the number of live births in the sub-provincial geographic area.

(See Observed versus Expected Ratio in the Methodology section for an example.)

<sup>&</sup>lt;sup>1</sup>National Center for Health Statistics (1993). Technical notes. Monthly Vital Statistics Report. 41 (Suppl. 7), 48.

#### **EXPECTED PERINATAL COMPLICATIONS**

The number of live births with perinatal conditions that would be expected to be born to residents of a sub-provincial geographic area, based on the rate of those conditions for the province as a whole and the number of live births in the sub-provincial geographic area.

(See **Observed versus Expected Ratio** in the Methodology section for an example.)

#### EXPECTED POTENTIAL YEARS OF LIFE LOST

The number of potential years of life lost (to age 75 in this report) expected for residents of a sub-provincial geographic area based on the age specific mortality rates for the province as a whole and the population age structure of the sub-provincial geographic area.

(See Potential Years of Life Lost Index in the Methodology section for an example.)

#### EXTREMELY LOW BIRTH WEIGHT

A birth weight of less than 500 grams. See also **Birth Weight**.

#### **EXTREMELY PREMATURE**

A gestational age of less than 28 weeks.

See also **Gestational Age**.

#### **FERTILTIY RATE**

The number of live births occurring in a given time period divided by the number of women of childbearing age for residents of a geographic area. BC rates are per 1,000 women aged 15 to 44; Canadian rates are per 1,000 women aged 15 to 49.

See also Total Fertility Rate.

#### **FORCEPS**

An assisted delivery employing forceps.

See also Mode of Delivery.

#### **GESTATIONAL AGE**

Fetal age or duration of pregnancy measured from the first day of the last normal menstrual period. Gestational age is expressed in completed days or completed weeks (e.g., events occurring 280 to 286 days after the onset of the last normal menstrual period are considered to have occurred at 40 weeks of gestation).

Measurements of fetal growth, as they represent continuous variables, are expressed in relation to a specific week of gestational age as follows:

Pre-term gestational age less than 37 weeks
 Term gestational age of 37 to 41 weeks
 Post-term gestational age of 42 weeks or more

Pre-term births can be further divided as follows:

Extremely premature gestational age of less than 28 weeks
 Moderately premature gestational age of 28 to 36 weeks

#### HA

(See Health Authority.)

#### **HEALTH AUTHORITY (HA)**

A geographic subdivision of the province used by the Ministry of Health Services for administrative and data dissemination purposes. There are five health authorities plus the provincial HA. Health authorities can be subdivided into 16 Health Service Delivery Areas (HSDAs) or 89 Local Health Areas (LHAs). See Figure 2 for a map of the province by HAs.

#### **HEALTH SERVICE DELIVERY AREA (HSDA)**

A geographic subdivision of the province used by the Ministry of Health Services for data dissemination purposes. The 16 Health Service Delivery Areas can be aggregated into the five Health Authorities (HAs) plus the provincial HA, or subdivided into 89 Local Health Areas (LHAs). See Figure 2 for a map of the province by HSDAs.

#### "HEALTHY" WEIGHT

A birth weight of 2,500 to 4,499 grams.

See also Birth Weight.

#### HIGH BIRTH WEIGHT

A birth weight of 4,500 grams or more.

See also Birth Weight.

#### **HIV DISEASE**

In 1987, the World Health Organization added new codes to the International Classification of Diseases (ICD) to identify Acquired Immunodeficiency Syndrome (AIDS) and Human Immunodeficiency Virus (HIV). In ICD-10, these conditions are coded to B20–B24 and are called HIV disease.

#### **HSDA**

(See Health Service Delivery Area.)

#### **HUMAN IMMUNODEFICIENCY VIRUS (HIV)**

The virus that causes HIV disease.

#### **ICD-9 CODES**

The World Health Organization's International Classification of Diseases, Ninth Revision. This version of ICD was used by the BC Vital Statistics Agency for coding birth complications and causes of death from 1979 until 1999. Translation tables were developed and extensive manual reviews conducted in order to recode causes of death from ICD-9 to ICD-10, permitting direct comparison of cause of death trends including deaths from 1999 and earlier that were originally coded in ICD-9.

#### **ICD-10 CODES**

The World Health Organization's International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, implemented by the BC Vital Statistics Agency on January 1, 2000. The Preamble to Appendix 2 presents a summary of ICD-10 codes.

#### INFANT DEATH

Death of a child under one year of age. These deaths are divided according to age at death because of the high mortality rates that occur in the periods soon after birth and because different environmental factors underlie the cause of death in the different time periods.

Neonatal death
 Post neonatal death
 death of children less than 28 days after birth
 death of children from 28 to 364 days after birth

Neonatal deaths are further divided as follows:

Early neonatal death
 Late neonatal death
 death of children less than 7 days after birth
 death of children from 7 to 27 days after birth

#### INFANT MORTALITY RATE

The number of deaths of children under one year of age expressed as a rate per 1,000 live births. The infant mortality rate is an internationally accepted indicator of the health status of a population.

#### LATE NEONATAL DEATH

Death of a child from 7 to 27 days of age.

See also Infant Death.

#### **LBW**

(See Low Birth Weight.)

#### **LHA**

(See Local Health Area.)

#### LIFE EXPECTANCY

Life expectancy at birth represents the mean number of years a birth cohort (persons born in the same year) may expect to live given the present mortality experience of a population. The life expectancy for a population is a summary measure that reflects the mortality rates for all ages combined, weighted in accordance with a life-table population structure. Life expectancy is an internationally accepted indicator of the health status of a population. Life expectancy is provided by BCSTATS, Ministry of Citizens' Services.

#### LIVE BIRTH

The *Vital Statistics Act* defines a live birth as "The complete expulsion or extraction from its mother, irrespective of the duration of the pregnancy, of a product of conception in which, after the expulsion or extraction, there is:

- (a) breathing;
- (b) beating of the heart;
- (c) pulsation of the umbilical cord; or
- (d) unmistakable movement of voluntary muscle, whether or not the umbilical cord has been cut or the placenta attached."

#### LIVE BIRTH RATE

The number of live births divided by the mid-year population and converted to a rate per 1,000 population.

#### LOCAL HEALTH AREA (LHA)

A geographic subdivision of the province used by the Ministry of Health Services for data dissemination purposes. The 89 local health areas can be aggregated into 16 Health Service Delivery Areas (HSDAs) or five Health Authorities (HAs) plus the provincial HA. See Figure 1 for a map of the province by LHAs.

#### LOW BIRTH WEIGHT (LBW)

A birth weight of less than 2,500 grams. Low birth weight babies have increased risks of morbidity and premature death.

See also Birth Weight.

#### LOW BIRTH WEIGHT RATE

The number of low birth weight live born babies per 1,000 live births.

#### MARRIAGE RATE

The number of marriages divided by the mid-year population and converted to a rate per 1,000 population.

#### **MATERNAL DEATH**

Death of a woman while pregnant or within 42 days of termination of pregnancy from causes related to the pregnancy, but not from accidental or incidental causes.

#### MATERNAL DEATH RATE

The number of maternal deaths divided by the number of live births and converted to a rate per 10,000 live births.

#### MEDICALLY TREATABLE DISEASES, DEATHS DUE TO

Deaths due to medically treatable diseases are based on Charlton's<sup>2</sup> classification. The disease categories are ones for which mortality could potentially have been avoided through appropriate medical intervention. It should be noted that the causes are considered to have been medically treatable only if the death occurred to persons within a specified age range (see footnotes to Table 37).

The incidence of deaths from medically treatable diseases can be used by public health professionals as a way of monitoring the effect of health promotion programs.

#### MODE OF DELIVERY

The modes of delivery presented in this report consist of cesarean, forceps, spontaneous breech, spontaneous vertex, and vacuum (or suction).

#### Cesarean:

A delivery involving the surgical incision of the abdomen and uterine walls.

#### Forceps:

An assisted delivery employing forceps.

#### **Spontaneous Breech:**

An unassisted (spontaneous) delivery in which the buttocks or feet of the fetus appear first.

#### **Spontaneous Vertex:**

An unassisted (spontaneous) delivery in which the head of the fetus appears first.

#### Vacuum:

An assisted delivery employing suction or vacuum.

#### **MODERATELY PREMATURE**

A gestational age of 28 to 36 weeks.

See also **Gestational Age**.

#### **MVA DEATHS**

Motor Vehicle Accidental Deaths.

#### NATURAL POPULATION INCREASE (NPI)

The component increase in a population due to the number of live births less deaths; also called Natural Population Growth. This increase is often expressed as a rate, such as per 1,000 population. It does not include increases due to immigration or decreases due to emigration.

#### **NEONATAL DEATH**

Death of a child under 28 days of age.

See also Infant Death.

#### **NPI**

(See Natural Population Increase.)

#### **OBSERVED DEATHS**

The actual number of deaths that occurred to residents of a sub-provincial geographic area in a specified time period.

<sup>&</sup>lt;sup>2</sup>Charlton, J.R.H. (1987). Avoidable Deaths and Diseases as Monitors of Health Promotion. In T. Abelin, Z.J. Brzezinski, & V. Carstairs (Eds.), *Measurement in Health Promotion and Protection* (pp.467-479). Copenhagen, Denmark: World Health Organization, Regional Office for Furone

#### **OBSERVED LOW BIRTH WEIGHT LIVE BIRTHS**

The actual number of low birth weight live births that occurred to residents of a sub-provincial geographic area in a specified time period.

#### **OBSERVED MATERNAL COMPLICATIONS**

The actual number of maternal complications that occurred to residents of a sub-provincial geographic area in a specified time period.

#### **OBSERVED PERINATAL CONDITIONS**

The actual number of perinatal conditions that occurred to residents of a sub-provincial geographic area in a specified time period.

#### **OBSERVED PYLL**

The actual number of potential years of life lost (to age 75) from deaths that occurred to residents of a sub-provincial geographic area in a specified time period.

#### **OUT-OF-WEDLOCK BIRTHS**

Births where the mother of the baby is not lawfully married to the father of the baby.

#### **OVERDOSE DEATHS**

(See Drug Overdose Deaths.)

#### **P-VALUE**

The probability of rejecting the null hypothesis when a specified test procedure is used on a given data set. The data are statistically significant when the null hypothesis is rejected and not significant otherwise.

(See Statistical Test in the Methodology section for examples.)

#### **PERINATAL**

Pertaining to or occurring in the period shortly before, during and after birth, starting at 22 completed weeks of gestation and ending seven completed days after birth.

#### PERINATAL DEATH RATE

The number of perinatal deaths divided by the number of total births (live births plus stillbirths) and converted to a rate per 1,000 total births.

#### **POPULATION**

Mid-year population estimates used in the preparation of this report were obtained from BC STATS, Ministry of Citizens' Services.

#### **POST MATURE**

(See Post-Term.)

#### POST NEONATAL DEATH

Death of a child between the ages of 28 days and 364 days.

See also Infant Death.

#### **POST TERM**

A gestational age of 42 weeks or more.

See also Gestational Age.

#### POTENTIAL YEARS OF LIFE LOST (PYLL)

The number of years of life lost when a person dies before a specified age (75 years). In this report, all deaths are assumed to occur at the midpoint of five-year age groups.

(See Potential Years of Life Lost (PYLL) in the Methodology section for an example.)

#### **PREMATURE**

(See Pre-Term.)

#### PRE-TERM

A gestational age less than 37 weeks.

See also Gestational Age.

#### PRE-TERM RATE

The number of pre-term live births divided by the number of live births and converted to a rate per 1,000 live births.

#### **PYLL INDEX (PYLLI)**

The ratio of an area's observed PYLL to its expected PYLL. This is a health status indicator.

(See Potential Years of Life Lost Index (PYLLI) in the Methodology section for an example.)

#### PYLL STANDARD RATE (PYLLSR)

An age-standardized measure of an area's PYLL, expressed in terms of a rate per 1,000 population, adjusted to a standard population (1991 Canada Census). This is a health status indicator.

(See PYLLSR under Potential Years of Life Lost (PYLL) in the Methodology section for an example.)

#### **PYLL**

(See Potential Years of Life Lost.)

#### PVII %

The percent of all PYLL in the age group due to a specified cause of death.

#### **PYLLI**

(See PYLL Index.)

#### **PYLLSR**

(See PYLL Standardized Rate.)

#### **QUINTILE**

A ranking is derived by dividing a group (e.g., LHAs within British Columbia) into five subgroups, each with equal numbers of LHAs. (Since there are 89 LHAs and 89 is not evenly divisible by five, there is one less LHA in the middle group.) These divisions are derived from a ranking of the group members according to the value of a measure, such as the SMR or the PYLLI.

#### SAM

(See Smoking-attibutable Mortality.)

#### **SIDS**

Sudden Infant Death Syndrome. The BC Coroners' Service (BCCS) utilizes an additional category of infant deaths referred to as "sudden unexplained death in infancy" (SUDI). An explanation of this term can be found at http://www.pssg.gov.bc.ca/coroners/child-death-review/docs/cdru-2009annualreport.pdf (see glossary).

As the World Health Organization ICD-10 classification system (upon which the statistics in this report are based) does not utilize this terminology, events classified as "SUDI" by the BCCS are herein included in the SIDS (R95.-) category, as is the usual practice followed by other provincial vital statistics agencies and Statistics Canada.

#### SMOKING-ATTRIBUTABLE MORTALITY (SAM)

The absence on death certifications of complete and reliable data on smoking requires the use of estimation techniques to approximate the extent of smoking-attributable deaths. Estimation methods, while not precise, may at least provide a general indication of the extent of such deaths. This report uses an estimation method based on the concept of attributable risk, which is described in the Methodology section.

Smoking-attributable deaths are derived by multiplying a smoking-attributable mortality percentage by the number of deaths aged 35+ in specified cause of death categories. These categories are comprised of selected malignant neoplasms, circulatory system diseases, and respiratory system diseases, and are listed in Table 42. (See **Smoking-Attributable Mortality** in the Methodology section for more details.)

#### **SMR**

(See Standardized Mortality Ratio.)

#### STANDARD POPULATION

A reference population of known age distribution used in the calculation of standardized indicators to adjust for variations in population age structures in different geographic areas or time periods. For SMR and PYLLI calculations the standard population is the British Columbia population for the year(s) concerned. The 1991 Canadian Census is used as the standard population in the calculation of ASMR and PYLLSR.

#### STANDARDIZED MORTALITY RATIO (SMR)

The ratio of the number of deaths occurring to residents of a geographic area (e.g., LHA) to the expected number of deaths in that area based on provincial age-specific mortality rates. The SMR is a good measure for comparing mortality data that are based on a small number of cases or for readily comparing mortality data by geographical area. SMR is an internationally recognized health status indicator.

See also Age Standardization and Standard Population.

(See Standardized Mortalilty Ratio in the Methodology section for an example.)

#### **STILLBIRTH**

Since 1986, the *Vital Statistics Act* defines a stillbirth as "The complete expulsion or extraction from its mother after at least 20 weeks of pregnancy, or after attaining a weight of at least 500 grams, of a product of conception in which, after the expulsion or extraction, there is no breathing, beating of the heart, pulsation of the umbilical cord, or unmistakable movement of voluntary muscle."

The definition of a stillbirth has changed over the years. From 1950 until July 1, 1962, the definition of a stillbirth was the birth of a viable fetus after at least 28 weeks pregnancy in which pulmonary respiration does not occur, whether death occurs before, during, or after birth. From July 1, 1962 until January 1, 1986, the definition of a stillbirth did not include the phrase "or after attaining a weight of at least 500 grams."

#### STILLBIRTH RATE

The number of stillbirths divided by the number of total births (live births plus stillbirths) and converted to a rate per 1,000 total births.

See also Crude Rates.

#### **TEENAGE MOTHERS**

Mothers less than 20 years of age.

#### TEENAGE MOTHER LIVE BIRTH RATE

The number of live births to teenage mothers divided by the number of live births and converted to a rate per 1,000 live births.

#### TERM

A gestational age of 37 to 41 weeks.

See also Gestational Age.

#### **TFR**

(See Total Fertility Rate.)

#### **TOTAL BIRTHS**

The number of live births plus stillbirths.

#### **TOTAL FERTILITY RATE (TFR)**

The number of births that a group of 1,000 women would have if, during their childbearing years, they had the age-specific birth rates observed in a given calendar year. TFR is a hypothetical measure of completed family size based on current levels of fertility by age.

(See TFR under Fertility Rate in the Methodology section for an example.)

#### **TOTAL PYLL**

The total number of potential years of life lost prior to an established cut-off point of 75 years.

#### **UCOD**

(See Underlying Cause of Death.)

#### **UNDERLYING CAUSE OF DEATH (UCOD)**

The World Health Organization defines the underlying cause of death as "(a) the disease or injury which initiated the train of events leading directly to death, or (b) the circumstances of the accident or violence which produced the fatal injury."

#### **VACUUM**

An assisted delivery employing suction or vacuum. See also **Mode of Delivery**.

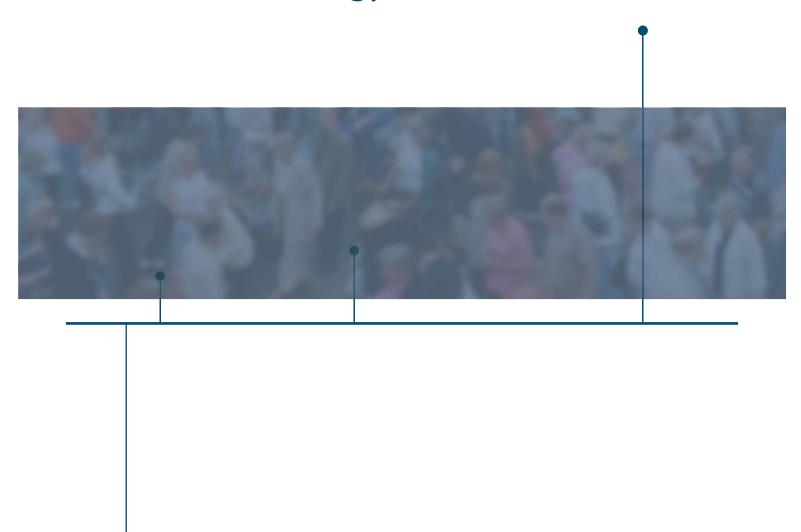
#### **VERTEX**

A delivery in which the head of the fetus appears first. See also **Mode of Delivery**.

#### **VERY LOW BIRTH WEIGHT**

A birth weight of less than 1,500 grams. See also **Birth Weight**.

# Methodology



# Methodology

Population statistics inevitably involve comparisons of sub-populations, regions, and time periods. To many, such comparisons are often too complex so that interpretation becomes a formidable task. However, those comparisons are necessary in order to understand the health status of specific populations within British Columbia. The text that accompanies the tables and figures in this report explains the basic meaning of the comparisons but, for some, a more in-depth explanation is useful and necessary.

This section provides the reader with computational examples of how various measures are calculated. All data shown in the examples are hypothetical. These routines are referenced in the discussion accompanying specific tables and figures where they are used and are arranged alphabetically. In some cases, a test of statistical significance is noted in the discussion and those routines will be found at the end of this part of the report.

Examples of the these statistical computations follow:

#### **RATES**

- Age Standardized Mortality Rate (ASMR)
- Fertility Rates

Total Fertility Rate (TFR)

Age Specific Fertility Rates (ASFRs)

Potentional Years of Life Lost (PYLL) and Standardized Rate (PYLLSR)

#### **RATIOS**

• Observed versus Expected Ratios

Low Birth Weight (LBW) Live Births

Potential Years of Life Lost Index (PYLLI)

Standardized Mortality Ratio (SMR)

#### ESTIMATION OF SMOKING ATTRIBUTABLE MORTALITY (SAM)

#### STATISTICAL TESTS OF SIGNIFICANCE

- Chi-Square
- Confidence Intervals
- P-Value

#### **RATES**

Age Standardized Mortality Rate (ASMR)

Although a hypothetical LHA is used in the example cited here, the ASMR was also calculated for yearly death data, for example Figure 16, and specific cause groups, for example Table 21, to permit comparisons between items in those tables or figures. The example shown below can be applied to those measures as well. The test of statistical significance is described under Rates in Statistical Tests of Significance at the end of this Appendix.

Age Group (i)	Standard Population ( $\pi_i$ )	Estimated Population (p <sub>i</sub> )	LHA Death Rate/10,000 (m <sub>i</sub> )	Observed Deaths (d <sub>1</sub> )
< 1	403,061	1,339	22.4	3
1 – 4	1,550,285	5,483	1.8	1
80 - 84	382,303	1,198	701.2	84
85 +	287,877	908	1596.9	145
TOTAL	28,120,065	81,016		561

#### For the Local Health Area:

$$ASMR = \frac{\sum m_i \times \pi_i}{\prod} = \frac{22.4 \times 403,061 + ... + 1,596.9 \times 287,877}{28,120,065} = 46.2$$

Where: p<sub>i</sub> = area population in age group i;

 $\pi_{i}$  =standard population in age group i;

 $\Pi = \sum \pi_i = \text{total standard population};$ 

d<sub>i</sub> =deaths in LHA population in age group i; and

m<sub>i</sub> = $d_i/p_i \times 10,000$  = mortality rate per 10,000 LHA population in age group i.

e.g., 
$$m_i = \frac{3 \times 10,000}{1,339} = 22.4$$
, for age group 1.

### • Fertility Rates

Fertility Rates include the Total Fertility Rate (TFR) and Age Specific Fertility Rates (ASFRs). Although the TFR is calculated for a hypothetical LHA in the example cited here, the calculation method was applied to each year in Table 3 and Figure 5 and to each of the LHAs in Table 10. The teenage fertility rates shown in Table 10 and Figure 29 are the teenage-specific fertility rates, that is the ASFRs for 15-19 year olds, exemplified below.

		LHA	
Age	Live	Female	Age Specific
Group	Births	Population	Fertility Rate
(i)	(b <sub>i</sub> )	(W <sub>i</sub> )	(ASFR <sub>i</sub> )
15 – 19	19	598	31.8
20 – 24	46	440	104.5
25 – 29	74	498	148.6
30 - 34	51	745	68.5
35 – 39	12	690	17.4
40 – 44	2	581	3.4
TOTAL	204	3,552	374.2

#### For the Local Health Area:

1) the age specific fertility rate (ASFR) for age group 15–19 years is:

$$ASFR_i = \frac{b_i}{w_i} \times 1,000 = \frac{19}{598} \times 1,000 = 31.8$$

Where: b = number of live births for age group i; and

w<sub>i</sub> =number of female population for age group i.

2) the total fertility rate (TFR) is:

$$TFR = a \times \sum ASFR_i = 5 \times (31.8 + ... + 3.4) = 1,871$$

Where: ASFR<sub>i</sub> = age specific fertility rate for age group i; and = number of years in each age group i.

Potential Years of Life Lost (PYLL) and Standardized Rate (PYLLSR)

The Potential Years of Life Lost (PYLL) measures presented in this report are based on the number of years of life lost when a person dies before the age of 75 years. Infant deaths (age less than one year old) are included.

				LH	IA	
Age	Age	Standard	Estimated	Death	Observed	Observed
Group	Factor	Population	Population	Rate/1,000	Deaths	PYLL
(i)	(75–Y <sub>i</sub> )	$(\pi_{_{\mathrm{i}}})$	(p <sub>i</sub> )	(m <sub>i</sub> )	$(d_i)$	$(d_i(75-Y_i))$
< 1	74.5	403,061	1,339	2.2	3	223.5
1 – 4	72.0	1,550,285	5,483	0.2	1	72.0
5 – 9	67.5	1,953,045	6,553	0.2	1	67.5
	-					
	-					
	•	•				•
65 – 69	7.5	1,084,588	3,538	18.7	66	495.0
70 – 74	2.5	834,024	2,779	28.8	80	200.0
TOTAL		28,120,065	79,140		239	3,183.0

#### For the Local Health Area:

$$PYLL = \sum d_i \times (75 - Y_i)$$

Where: d<sub>i</sub> =number of deaths in age group i;

 $Y_i^1$  = age at midpoint of age group i; and  $\Sigma$  = summation.

$$PYLLSR = \frac{\sum m_i \times \pi_i \times (75 - Y_i)}{\prod} = \frac{2.2 \times 403,061 \times 74.5 + ... + 28.8 \times 834,024 \times 2.5}{28,120,065} = 37.0$$

Where: p<sub>i</sub> =LHA population in age group i;

 $\pi_i$  =standard population in age group i;

 $\Pi = \sum \pi_i = \text{total standard population};$ 

d<sub>i</sub> =deaths in LHA population in age group i;

Y<sub>i</sub> = age at midpoint of age group i; and

 $m_i = (d_i/p_i) \times 1,000 = \text{mortality rate per } 1,000 \text{ LHA population in age group i.}$ 

#### **RATIOS**

Observed versus Expected Ratios

The following are hypothetical examples that apply to the vital event ratios shown in this report. The first example shows low birth weight (LBW) live births (less than 2,500 grams), but other live birth ratios, such as cesarean deliveries or live births with maternal or perinatal complications, as well as infant deaths ratios can be substituted. Tables 12, 16, 18, 20, and 26 and Figures 30, 32, 33, 34, and 36 present these ratios. Ratios for live births to teenage mothers, elderly gravida live births, pre-term live births, or live births by cesarean, although not shown in this report, would also be calculated the same way as the low birth weight ratios. These ratios based on live births should not be confused with observed versus expected ratios that involve age and gender standardization, such as Standardized Mortality Ratio (SMR) and Potential Years of Life Lost Index (PYLLI). The test of statistical significance is described under Ratios in Statistical Tests of Significance at the end of this Appendix.

#### Low Birth Weight Live Births

Year (i)		LHA h Weight Births Expected (E <sub>i</sub> )	Total Live Births (L <sub>i</sub> )	British C Low Birth Weight Live Births Observed (b <sub>i</sub> )	Total Live Births (B <sub>i</sub> )
1995	92	82.9	1,701	2,096	42,989
1996	69	74.6	1,588	1,965	41,846
1997	102	80.2	1,582	2,113	41,655
1998	85	74.7	1,495	2,145	42,913
1999	91	78.1	1,501	2,267	43,586
TOTAL	439	390.6	7,867	10,586	212,989

#### For the Local Health Area:

1) the expected low birth weight live births for year i = 1995 were:

$$E_i = \frac{b_i}{B_i} \times L_i = \frac{2,096}{42,989} \times 1,701 = 82.9$$

Where:  $b_i$  =number of LBW live births for the province in year i;

 $B_{i}^{i}$  =number of live births for the province in year i; and  $L_{i}^{i}$  =number of live births for the LHA.

2) the ratio of observed over the expected LBW live births for the five-year period was:

Ratio = 
$$\frac{\sum O_i}{\sum E_i} = \frac{92 + ... + 91}{82.9 + ... + 78.1} = \frac{439}{390.6} = 1.1$$

Where:  $O_i$  =observed LBW live births for year i; and

E = expected LBW live births for year i.

Potential Years of Life Lost Index (PYLLI) Note that this method is both age and gender standardized.

					LHA				British C	olumbia	
Age Group	Gender	Age Factor	Estimated Population	Death Rate/1,000	Observed Deaths	Observed PYLL	Expected PYLL	Estimated Population	Death Rate/1,000	Observed Deaths	Observed PYLL
(i)	(j)	(75–Y <sub>ij</sub> )	(p <sub>ij</sub> )	(m <sub>ij</sub> )	$(d_{ij})$	$(d_{ij}(75-Y_{ij}))$	$(e_{ij}(75-Y_{ij}))$	(P <sub>ij</sub> )	$(D_{ij}/P_{ij}\times 1,000)$	$(D_{ij})$	(D <sub>ij</sub> (75–Y <sub>ij</sub> ))
<1	М	74.5	1,339	2.2	3	223.5	766.3	42,700	7.7	328	24,436.0
<1	F	74.5	1,301	1.8	2	177.3	620.8	40,600	6.4	260	19,380.3
	•										
	.										
70–74	M	2.5	1,587	71.3	113	282.8	233.2	65,500	58.8	3,969	9,921.4
70-74	F	2.5	2,779	28.8	80	200.0	182.3	107,000	26.2	2,807	7,017.5
TOTAL			79,140		239	3,183.0	5,100.0	2,966,500		11,068	200,265.5

For the Local Health Area:

$$PYLLI = \frac{O}{E} = \frac{\sum d_{ij} \times (75 - Y_{ij})}{\sum e_{ij} \times (75 - Y_{ij})} = \frac{223.5 + 177.3 + ... + 282.8 + 200.0}{766.3 + 620.8 + ... + 233.2 + 182.3} = \frac{3,183}{5,100} = 0.6$$

Where: O =observed PYLL;

E =expected PYLL;

d<sub>ii</sub> =observed deaths in age group i and gender j;

e" = expected deaths in age group i and gender j;

 $Y_{ij}^{\prime}$  =age at midpoint of age group i and gender j;

p<sub>ii</sub> =LHA population for age group i and gender j;

 $P_{ii}^{\prime}$  =provincial population for age group i and gender j;

 $D_{ii}$  =provincial deaths for age group i and gender j.

#### 1) Observed PYLL (O)

The number of potential years of life lost (PYLL) based on the number and age at death of deaths that occurred in the LHA. For example, for age group under one year of age and gender j, the observed PYLL are:

Observed PYLL = deaths x age factor =  $d_{ij}$  (75- $Y_{ij}$ ) = 3 x 74.5 = 223.5

#### 2) Expected PYLL (E)

The number of potential years of life lost (PYLL) expected for residents of the LHA based on the PYLL from the expected deaths in the age group. For example, for age group under one year of age and gender j, the expected PYLL are:

Expected PYLL = expected deaths x age factor = 
$$e_{ij} (75 - Y_{ij}) = \frac{D_{ij}}{P_{ij}} \times p_{ij} \times (75 - Y_{ij})$$
  
=  $\frac{328}{42,700} \times 1,339 \times 74.5 = 766.3$ 

#### • Standardized Mortality Ratio (SMR)

Note that this method is both age and gender standardized.

			LH	IA			British Columbia	
Age Group (i)	Gender (j)	Estimated Population (p <sub>ij</sub> )	Death Rate/1,000 (m <sub>ij</sub> )	Observed Deaths (d <sub>ij</sub> )	Expected Deaths (e <sub>ij</sub> )	Estimated Population (P <sub>ij</sub> )	Death Rate/1,000 (M <sub>ij</sub> )	Observed Deaths (D <sub>ij</sub> )
< 1 < 1	M F	1,339 1,301	2.2 1.8	3 2	10.3 8.3	42,700 40,600	7.7 6.4	328 260
								•
								•
85 +	M	1,198	70.1	84	87.2	48,100	72.8	3,502
85 +	F	908	159.7	145	138.8	34,500	152.8	5,272
TOTAL		81,016		561	595.1	3,131,700		23,389

For the Local Health Area:

$$SMR = \frac{\sum d_{ij}}{\sum e_{ii}} = \frac{3 + 2 + \dots + 110 + 145}{10.3 + 8.3 + \dots + 92.6 + 138.8} = \frac{561}{595.1} = 0.9$$

Where:  $d_{ij}$  =observed deaths in age group i and gender j; and  $e_{ii}$  =expected deaths in age group i and gender j.

#### 1) Observed Deaths (d)

The actual number of deaths that occurred in the LHA. For example, for age group under one year of age and gender j, the observed deaths are three.

#### 2) Expected Deaths (e)

The number of deaths expected for residents of the LHA based on the age specific mortality rates for the province as a whole and the population age structure of the LHA. For age group under one year and gender j, the expected deaths are:

$$e_{ij} = \frac{D_{ij}}{P_{ij}} \times p_{ij} = \frac{328}{42,700} \times 1,339 = 10.3$$

Where: p<sub>ii</sub> =LHA population for age group i and gender j;

=provincial deaths for age group i and gender j; and =provincial population for age group i and gender j.

#### Estimation of Smoking Attributable Mortality (SAM)

This report uses an estimation method to approximate the extent of smoking-attributable deaths based on the concept of attributable risk. To define attributable risk mathematically, consider do and do respectively to represent the death rates, in a given time period, in two cohorts from a population — those not exposed and those exposed to a given risk factor. The attributable risk of this factor, AR<sub>1</sub>, would then be:

$$AR_1 = \frac{d_1 - d_0}{d_1} = \frac{r_1 - 1}{r_1}$$

Where:  $r_1 = d_1/d_0$  is the relative risk of the exposed cohort.

The relative risk of the unexposed cohort is  $r_0 = 1$ ; the attributable risk of this cohort is  $AR_0 = 0$ .

The attributable risk (AR) for the population as a whole (exposed plus unexposed cohorts) is given by:

$$AR = \frac{p_1 (r_1 - 1)}{p_1 (r_1) + (1 - p_1) (r_0)} = \frac{(p_1) (r_1 - 1)}{(p_1) (r_1 - 1) + 1}$$

Where:  $p_1$  = the proportion or fraction of the population exposed to the risk factor; and  $1-p_1$  = the proportion or fraction of the population not exposed to the risk factor.

This may be extended to account for multiple levels of exposure, as follows:

$$AR = \frac{\sum_{i=1}^{n} p_{i} (r_{i} - 1)}{\sum_{i=1}^{n} p_{i} (r_{i} - 1) + 1}$$

Where: p<sub>i</sub> = the proportion (prevelance) of the population in the ith level of exposure group;

r<sub>i</sub> = the relative risk at the ith level of exposure; and i = the ith risk category.

When applied to smoking-attributable mortality (SAM), the attributable risk is often expressed as a percentage:  $SAM (\%) = AR \times 100$ 

Smoking-attributable deaths are derived by multiplying the smoking-attributable mortality percentage expressed as a decimal fraction by the number of deaths aged 35+ in each of 19 specified cause of death categories. These categories are comprised of selected malignant neoplasms, circulatory system diseases, and respiratory system diseases, and are listed in the Glossary.

Relative-risk data from the American Society's Cancer Prevention Study (CPS-II) 1982–1988¹ were selected for use, as they have been widely used for similar analyses. The data from CPS–II established the age groups and the classification of smokers (current, former, and never) for which smoking prevalence data were required. The relative risk age categories were for 35+, or 35-64 and 65+. BC prevalence rates for smoking were provided in the **Tobacco Use in B.C. (1997)** survey commissioned by the BC and Yukon Health and Stroke Foundation.²

#### STATISTICAL TESTS OF SIGNIFICANCE

#### Chi Square

For ratios, such as SMRs, a Chi-square ( $\chi^2$ ) test is applied to determine whether the observed number of cases is statistically significantly different from the expected number. For LHA l:

$$\chi_l^2 = \frac{(O_l - E_l)^2}{E_l}$$

(with one degree of freedom).

Where:  $O_l$  =Observed number for LHA l; and  $E_l$  =Expected number for LHA l.

If  $\chi^2$  > 3.84, the ratio is statistically significant at 5% significance level.

For SMR values, the Chi-square statistic that is applied is:

$$X_l^2 = 9\hat{O}_l (1 - \frac{1}{9\hat{O}_l} - (\frac{E_{l-}}{\hat{O}_l})^{1/3})^2$$

Where: 
$$\hat{O}_l$$
 = $O_l$  if  $O_l > E_{l'}$  otherwise  $\hat{O}_l$  = $O_l + 1$ .

#### • Confidence Intervals

For rates, such as ASMRs, the test employed to determine statistical significance is a confidence interval. The 95% confidence interval for the difference (D) between a LHA and a provincial rate is defined by the upper and lower limits of the interval as follows:

Lower Limit = D - 1.96 
$$\sqrt{\frac{R_l^2}{O_l} + \frac{R_p^2}{O_p}}$$

Upper Limit = D + 1.96 
$$\sqrt{\frac{R_l^2}{O_l} + \frac{R_p^2}{O_p}}$$

<sup>&</sup>lt;sup>1</sup>Centres for Disease Control. (1990). Smoking and health: A national status report. (DHSS publication no. (CDC) 87-8396). 2nd Edition. Rockville, MD: U.S. Department of Health and Human Services.

<sup>&</sup>lt;sup>2</sup>Tobacco Use in B.C., ANGUS REID GROUP survey results, September 1997.

Where:  $R_i$  =Rate for LHA l;

 $R_p'$  =Rate for the province; O<sub>1</sub> =Observed number for LHA *l*; and

 $O_{v}$  =Observed number for the province.

If the Lower Limit > 0, then R, is statistically significantly higher than R, if the Upper Limit < 0, then R, is statistically significantly lower than R,; otherwise, there is no statistically significant difference.

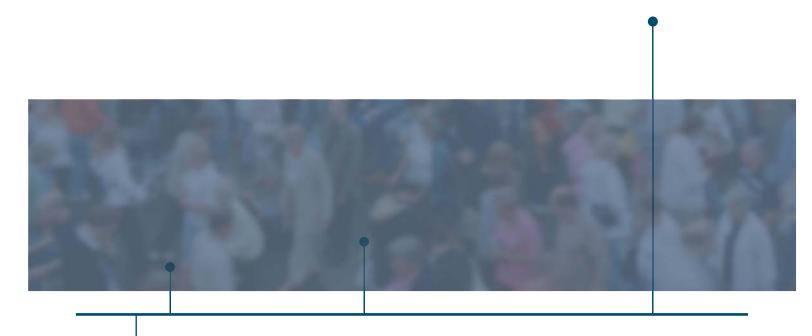
#### P Value

The p-value is the probability of rejecting the null hypothesis when a specified test procedure is used on a given data set. This probability is the smallest level of significance at which the null hypothesis would be rejected. Once the p-value has been determined, the conclusion at any particular level α results from comparing the p-value to  $\alpha$  (e.g., 0.05):

- (a) p-value  $\leq \alpha \Rightarrow$  reject null hypothesis at level  $\alpha$ ,
- (b) p-value  $> \alpha \rightarrow$  do not reject the null hypothesis at level  $\alpha$ ,

and we call the data statistically significant when the null hypothesis is rejected and not significant otherwise.

# Appendix One



Statistical Summaries by Health Authority, Health Service Delivery Area, Local Health Area and Community

British Columbia, 2009

# Preamble to Appendix 1

British Columbia is a large, geographically diverse province. The majority of the population is concentrated in the south-western corner of the province, with the majority of the remaining population concentrated in the major cities of Kelowna, Kamloops, Prince George, and Nanaimo, or along the border with the United States. Large areas of the province are sparsely populated. Health care services tend to be concentrated in the areas of greater population, especially in the metropolitan areas of Vancouver and Victoria.

Appendix 1 provides summary details of the 2009 vital statistics for HAs, HSDAs, LHAs, and incorporated communities. The LHAs are the lowest level of data aggregation; they are the building blocks upon which the HSDA and HA information is aggregated. Information presented in this appendix includes the number of live births, stillbirths, and deaths by gender, and the number of marriages. Live births and stillbirths are assigned to geographic areas based on usual residence of the mother. Deaths are assigned to geographic areas based on the usual residence of the decedent. Marriages are assigned to geographic areas based on the place where the marriage ceremony was performed and include non-residents.

Population estimates, average age, and life expectancy at birth were obtained from BC STATS, Ministry of Citizens' Services.

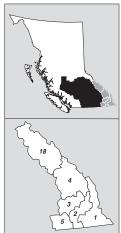
### Appendix 1

# STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY BRITISH COLUMBIA, 2009

Health Authority/ Health Service										
Delivery Area/										ı
Local Health Area/									Life	l
Community	Typo†							Average Age	Expectancy	1
(Incorporated Only)	Type <sup>1</sup>	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Population	(2005-2009)	

#### HSDA 11 EAST KOOTENAY

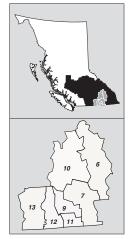
HODA II	LASI	NOO	LIVA						
LHA 001 Fernie		М	7,726	88	43		-	39.4	77.8
		F	7,167	78	51		-	39.7	X *
		Т	14,893	166	94	113	-	39.6	80.7
Elkford	DM	M		20	4		-		
		F	0.504	9	4	40	-		
Fornio	0	T	2,591	29	8	10	-		
Fernie	С	M F		32 28	21 32		-		
		T	4,415	60	53	52	_		
Sparwood	d DM	ı M	7,710	11	10	02	_		
Opa. 11000		F		20	7		-		
		Т	3,804	31	17	8	-		
LHA 002 Cranbrool	k	M	12,670	124	117		-	40.5	77.4
		F	13,083	133	120		2	42.0	82.6
		Т	25,753	257	237	179	2	41.2	80.0
Cranbrool	k C	M		99	100		-		
		F		117	105		2		
LLIA 000 Kiraharla		T	19,161	216	205	93	2	40.5	00.4
LHA 003 Kimberley	/	M F	4,278	35 48	54 42		1	43.5 44.6	80.1 81.2
		T	4,307 8,585	46 83	96	46	1	44.0 44.1	80.8
Kimberley	, C	M	0,505	34	47	40	1	77.1	00.0
rambonoy		F		41	35		-		
		T	6,705	75	82	35	1		
LHA 004 Winderme	ere	M	5,393	54	29		-	40.4	83.6 *
		F	5,329	47	18		-	40.8	X *
		T	10,722	101	47	108	-	40.6	84.7
Canal Fla	ts VL	M		7	3		-		
		F	0.47	4		_	-		
loverno re	- DM	T	817	11	3	5	-		
Invermere	e DM	M F		30 19	14 11		-		
		T	3,668	49	25	24	-		
Radium	VL	M	0,000	5	4	24	_		
Hot Spring		F		6	1		_		
	O	Т	1,005	11	5	11	-		
LHA 005 Creston		M	6,136	59	89		-	44.5	76.9
		F	6,533	76	72		-	45.6	83.5 *
_	_	T	12,669	135	161	58	-	45.1	80.1
Creston	Т	M		28	56		-		
		F T	F 046	34	51	27	-		
LHA 018 Golden		M	5,246 3,871	62 26	107 29	21	-	38.4	78.4 *
LITA 016 Golden		F	3,503	29	10		1	39.1	82.7
		T	7,374	55	39	140	1	38.8	80.4
Golden	Т	M	. ,0	21	26		-	22.0	23
		F		25	7		1		
		Т	3,959	46	33	70	1		
TOTAL		M	40,074	386	361		1	41.0	78.5
		F	39,922	411	313	044	3	42.0	83.3
		Т	79,996	797	674	644	4	41.5	80.8



# STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY BRITISH COLUMBIA, 2009

Health Authority/										ı
Health Service										ı
Delivery Area/										ı
Local Health Area/									Life	ı
Community	Type <sup>†</sup>							Average Age	Expectancy	ı
(Incorporated Only)	Турс	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Population	(2005-2009)	ı

#### HSDA 12 KOOTENAY BOUNDARY



	HODA	12	KOOIL	-11/7/	BOONDAI	<b>\</b> 1					
]	LHA 006	6 Kootenay	Lake	M	1,954	14	16		-	44.0	78.7 *
				F	1,894	8	13		-	45.1	X *
				Т	3,848	22	29	40	-	44.5	81.5
		Kaslo	VL	M		10	11		-		
				F		2	9		-		
				Т	1,184	12	20	15	-		
	LHA 007	' Nelson		M	12,611	136	100		-	40.4	79.2
				F	12,509	110	90		-	42.0	82.8
l				T	25,120	246	190	190	-	41.2	81.0
		Nelson	С	М		63	51		-		
				F T	0.020	45	63	07	-		
		Salmo	VL	M	9,938	108 9	114 14	97	-		
		Sairio	V L	F		9	4		_		
				T T	1,060	18	18	10	_		
		Slocan	VL	M	1,000	4	1	10	_		
				F		1	4		_		
J				Т	391	5	5	11	-		
	LHA 009	Castlegar		M	6,739	43	47		-	41.4	77.4
		_		F	6,706	41	60		-	43.0	80.8
				Т	13,445	84	107	46	-	42.2	79.1
		Castlegar	. C	M		25	29		-		
				F		29	47		-		
	1114 040			T	7,871	54	76	28	-		
	LHA 010	Arrow Lal	kes	M	2,384	13	21		-	45.4	78.3
				F T	2,397	11	16	20	-	46. 0	X *
		Nakusp	VL	M	4,781	24 7	37 11	38	-	45.7	80.5
		Νακάδρ	VL	F		3	6				
				T T	1,530	10	17	20	_		
		New Den	ver VL	M	1,000	4	2	20	_		
				F		4	5		-		
				Т	516	8	7	9	-		
		Silverton	VL	M		1	2		-		
				F					-		
				Т	202	1	2	4	-		
	LHA 011	Trail		M	9,512	77	106		-	42.5	76.1
				F	9,866	85	126		2	44.6	80.7
		Em de cala	\/I	T	19,378	162	232	93	2	43.6	78.4
		Fruitvale	VL	M F		19 13	15 11		-		
				T	2,031	32	26	15	_		
		Montrose	VL	M	2,031	2	3	13	_		
		Worklood	v-	F		9	1		_		
				T	1,043	11	4	2	_		
		Rossland	С	M	,	22	10		-		
				F		17	6		-		
				Τ	3,532	39	16	21	-		
		Trail	С	M		26	69		-		
				F		33	91		2		
				T	7,353	59	160	42	2		
		Warfield	VL	M		6	5		-		
				F	4.044	8	12	•	-		
				Т	1,811	14	17	3	-		

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type <sup>†</sup>	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)	
LHA 012 Grand Forks		M F T	4,484 4,552 9,036	31 21 52	57 51 108	49	- - -	45.0 47.3 46.2	76.2 81.5 * 78.8	
Grand Forks	С	M F T	4,150	27 17 44	49 45 94	29	- - -			
LHA 013 Kettle Valley		M F T	1,910 1,787 3,697	5 7 12	16 7 23	13	-	46.6 45.6 46.1	X * X * X *	
Greenwood	С	M F T	676	1 3 4	4 1 5	3	- - -			
Midway	VL	M F T	658	3	5 2 7	2	- - -			
TOTAL		M F T	39,594 39,711 79,305	319 283 602	363 363 726	469	- 2 2	42.4 44.0 43.2	77.7 82.0 79.9	
HSDA	13	OKA	ANAGAN							
LHA 014 Southern Okanagan		M F T	9,671 10,144 19,815	59 58 117	149 114 263	143	- - 2	48.1 50.4 49.3	76.7 83.7 80.1	
Oliver	Т	M F T	4,783	30 25 55	75 72 147	47	- - 2			
Osoyoos	Т	M F T	5,189	15 8 23	42 31 73	48	- - -			
LHA 015 Penticton		M F T	19,964 21,684 41,648	161 173 334	319 255 574	268	1 1	44.8 47.3 46.1	77.4 82.5 80.0	21 78
Penticton	С	M F T	33,250	135 154 289	286 237 523	171	- - -			77 23
LHA 016 Keremeos		M F T	2,574 2,668 5,242	21 18 39	41 24 65	17	2 1 4	48.0 48.3 48.2	73.0 X * 77.5	17 16 14
Keremeos	VL	M F T	1,479	15 9 24	29 17 46	10	1 1 2			
LHA 017 Princeton		M F T	2,553 2,506 5,059	9 13 22	30 29 59	34	- - -	49.1 48.3 48.7	77.5 * 79.1 78.4	
Princeton	Т	M F T	2,757	9 13 22	29 26 55	21	- - -			
LHA 021 Armstrong - Spallumcheen		M F T	4,729 4,950 9,679	45 31 76	46 36 82	46	1 - 1	42.3 43.9 43.1	79.6 83.7 * 81.6	
Armstrong	С	M F T	4,533	34 22 56	34 30 64	33	1 - 1			
Spallumcheen	DM	M F T	5,128	11 9 20	12 6 18	13	- - -			

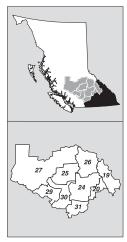
# STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY BRITISH COLUMBIA, 2009

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type <sup>†</sup>	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)
LHA 022 Vernon		M F T	32,181 33,696 65,877	324 325 649	310 309 619	351	3 - 5	42.1 44.1 43.1	77.9 82.6 80.3
Coldstream	DM	M F T	10,388	41 36 77	32 25 57	67	-		
Lumby	VL	M F		29 30	21 21		1 -		
Vernon	С	M F	1,804	59 203 215	42 228 238	24	1 1 -		
		Т	38,968	418	466	200	2		
LHA 023 Central		M	90,751	840	796		7	41.0	79.4
Okanagan		F	93,528	854	755		8	43.0	83.7
	0	T	184,279	1,694	1,551	1,041	15	42.0	81.5
Kelowna	С	M F		566 576	531 558		4 8		
		<u>'</u>	120,812	1,142	1,089	783	12		
Lake Country	y DM	M	120,012	56	33	700	2		
•	,	F		44	31		-		
		Т	11,409	100	64	88	2		
Peachland	DM	M		21	17		-		
		F		26	22		-		
1114 077 0		T	5,244	47	39	25	-	40.0	70.0
LHA 077 Summerland		M F	5,588	36 41	69 64		-	46.2 47.7	79.6 X *
		T	6,118 11,706	41 77	133	97	-	47.7 47.0	82.3
Summerland	I DM	M	11,700	36	69	91	-	47.0	02.5
Carrinonano	. D.W.	F		41	64		_		
		Т	11,243	77	133	97	-		
LHA 078 Enderby		M	3,813	42	38		-	43.2	76.1
		F	3,827	33	30		-	43.3	81.3 *
		T	7,640	75	68	42	-	43.2	78.6
Enderby	С	M		39	35		-		
		F	0.000	31	29	05	-		
TOTAL		T M	2,906 <b>171,824</b>	70 <b>1,537</b>	64 <b>1,798</b>	35	13	42.5	78.5
IOIAL		F	171,024	1,537	1,796		10	44.5	83.3
		T	350,945	3,083	3,414	2,039	28	43.5	80.9
			,	-,	-,	_,			

#### HSDA 14 **THOMPSON CARIBOO SHUSWAP**

LHA 019 Revelstoke		M	4,023	45	30		-	39.8	79.3 *
		F	3,905	43	32		-	41.4	X *
		Т	7,928	88	62	56	-	40.6	81.3 *
Revelstoke	С	M		45	30		-		
		F		43	32		-		
		Т	7,267	88	62	56	-		
LHA 020 Salmon Arm		M	17,178	130	182		-	44.3	77.1
		F	17,736	134	160		2	45.5	83.3
		Т	34,914	264	342	196	2	44.9	80.2
		T	,			196	_		

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)
Salmon Arm C			80	109		-		
	F T	17,220	83 163	111 220	108	2		
Sicamous DM		•	6	13		-		
	F		5	8		-		
I HA 024 Kamlaana	T	2,950	11	21	15	4	40.2	77.0
LHA 024 Kamloops	M F	55,064 55,782	591 505	484 356		1	40.3 41.6	77.9 82.3
	T .	110,846	1,096	840	578	5	40.9	80.1
Chase VL	1		18	25		-		
	F		15	16		-		
Kamloops C	T	2,478	33	41	56	-		
Kamloops C	M F		504 417	386 295		3 1		
	, T	87,017	921	681	385	4		
Logan Lake DM	M		6	9		-		
	F		12	7	_	-		
LLIA 00F 400 Mile Heure	T	2,189	18	16	9	-	447	76.0
LHA 025 100 Mile House	M F	7,519 7,237	50 60	75 67		1 -	44.7 44.5	76.9 81.2
	·	14,756	110	142	84	1	44.6	78.9
100 Mile DM	M		28	29		-		
House	F		25	40		-		
LLIA COC North Thomas	T	1,941	53	69	39	-	40.0	70.0
LHA 026 North Thompson	M F	2,174 2,135	24 20	16 19		-	42.0 41.2	73.3 X *
	'T	4,309	44	35	21	_	41.6	76.5
LHA 027 Cariboo -	M	13,632	143	112		1	39.1	76.0
Chilcotin	F	13,098	139	94		1	39.5	80.8
Milliama Lalva C	T	26,730	282	206	110	2	39.3	78.3
Williams Lake C	M F		67 61	53 61		1 1		
	' <sub>T</sub>	11,090	128	114	44	2		
LHA 029 Lillooet	M	2,285	18	24		-	39.8	74.8 *
	F	2,140	19	24		-	40.9	77.5 *
Lilland	T	4,425	37	48	14	-	40.4	76.0
Lillooet DM	M F		14 14	24 22		-		
	'T	2,367	28	46	12	_		
LHA 030 South Cariboo	M	3,766	30	39		1	43.5	75.0
	F	3,647	32	38		-	43.3	79.4
A a la a mark	T	7,413	62	77	39	1	43.4	77.2
Ashcroft VL	M F		9 11	12 10		1 -		
	'T	1,740	20	22	12	1		
Cache Creek VL		, -	10	12		-		
	F		6	12		-		
Oli :	T	1,083	16	24	11	-		
Clinton VL	M F		5 3	5 6		-		
	T	597	8	11	5	-		
Lytton VL		007	6	5	3	_		
•	F		12	7		-		
	T	226	18	12	9	-		



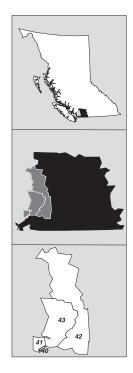
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type <sup>†</sup>	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)
LHA 031 Merritt		М	5,902	69	57		1	40.4	73.9
		F	5,816	61	45		-	41.1	79.9
		Т	11,718	130	102	47	1	40.7	76.7
Merritt	С	M		55	45		-		
		F		52	41		-		
		Т	7,450	107	86	35	-		
TOTAL		M	111,543	1,100	1,019		8	41.2	77.2
		F	111,496	1,013	835		4	42.2	81.9
		Т	223,039	2,113	1,854	1,145	12	41.7	79.5
HA 01 INTERIOR		M	363,035	3,342	3,541		22	41.9	78.0
TOTAL		F	370,250	3,253	3,127		19	43.5	82.8
		T	733,285	6,595	6,668	4,297	46	42.7	80.4



HA 01	INTERIOR TOTAL		M F	363,035 370,250	3,342 3,253	3,541 3,127	1,7.10	22 19	41.9 43.5	78.0 82.8
			Т	733,285	6,595	6,668	4,297	46	42.7	80.4
HSDA	21 FF	RASE	R EAST							
LHA 032	2 Hope		M F T	4,078 3,987 8,065	53 36 89	55 48 103	34	1 - 1	44.1 44.3 44.2	73.6 77.1 75.2
LHA 032	2 Hope		M F T	4,150 4,055 8,205	35 34 69	60 41 101	33	1 1 3	43.5 44.0 43.7	74.1 76.9 75.5
	Норе	DM	M F T	6,269	30 29 59	52 38 90	29	1 1 3		
LHA 033	3 Chilliwack		M F T	41,908 42,716 84,624	563 520 1,083	376 365 741	505	4 4 9	38.7 40.5 39.6	77.5 82.1 79.8
	Chilliwack	С	M F T	76,106	519 479 998	329 335 664	380	3 4 8		
LHA 034	4 Abbotsford		M F T	68,202 67,754 135,956	913 852 1,765	468 443 911	493	7 18 26	36.6 38.8 37.7	78.8 83.5 81.2
	Abbotsford	С	M F T	135,866	912 852 1,764	465 443 908	493	7 18 26		
LHA 075	5 Mission		M F T	21,686 20,531 42,217	227 227 454	134 127 261	182	4 1 6	37.0 38.4 37.7	76.7 81.1 78.8
	Mission	DM	M F T	37,167	212 210 422	121 120 241	163	2 1 4		
LHA 076	∂ Agassiz - Ha	rrison	M F T	4,527 4,464 8,991	46 52 98	36 41 77	132	- 1 1	41.2 42.1 41.6	79.1 84.2 81.5
	Harrison Hot Springs	VL	M F T	1,594	4 5 9	4 8 12	69	- - -		
	Kent	DM	M F T	5,515	42 47 89	32 33 65	63	1 1		
	TOTAL		M F T	140,473 139,520 279,993	1,784 1,685 3,469	1,074 1,017 2,091	1,345	16 25 45	37.6 39.5 38.6	77.9 82.5 80.2

Health Authority/										
Health Service										
Delivery Area/									Life	
								Λιανασα Λαα		
	Type <sup>†</sup>	Gender	Population	Liva Rirthe	Deaths	Marriages	Stillhirths			
(incorporated Only)	ı	dender	1 opulation	LIVE DITUIS	Dealis	Marriagoo		1 opulation	(2000 2000)	l
Local Health Area/ Community (Incorporated Only)	Type <sup>†</sup>	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)	

LHA 040 New Westminste	r M F T	32,100 32,916 65,016	389 343 732	236 245 481	283	2 3 6	39.3 41.2 40.3	77.6 82.4 80.1
New C Westminster	M F T	65,016	389 343 732	236 245 481	283	2 3 6		
LHA 041 Burnaby	F T	110,061 112,741 222,802	1,236 1,131 2,367	703 641 1,344	836	8 11 22	38.6 40.5 39.6	80.4 84.9 82.7
Burnaby C	F T	222,802	1,236 1,131 2,367	703 641 1,344	836	8 11 22		
LHA 042 Maple Ridge	M F T	46,569 46,702 93,271	526 475 1,001	295 303 598	403	5 7 15	37.0 38.8 37.9	78.0 82.4 80.2
Maple Ridge DN	M F T	75,051	397 384 781	265 271 536	240	3 7 13		
Pitt Meadows C	M F T	17,915	128 89 217	30 31 61	163	1 - 1		
LHA 043 Coquitlam	M F T	107,877 107,681 215,558	1,192 1,077 2,269	492 513 1,005	572	14 7 24	37.2 38.9 38.1	80.7 84.1 82.5
Anmore VI		2,160	7 7 14	2 2 4	5	-	00.1	02.0
Belcarra VI		681	3 3 6	1 1 2	2	- -		
Coquitlam C	M F		611 586	318 327		8 3		
Port Coquitlam C	F	123,213	1,197 314 272	645 118 125	380	12 1 1		
Port Moody C	T M F T	56,446 32,998	586 253 203 456	243 53 58 111	85 99	3 4 3 8		
TOTAL	M F T	296,607 300,040 596,647	3,343 3,026 6,369	1,726 1,702 3,428	2,094	29 28 67	37.9 39.7 38.8	79.8 84.0 82.0



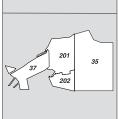
## Appendix 1 - continued

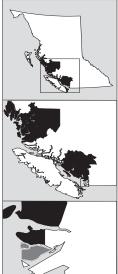
## STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

British Columbia, 2009

	Heal Deliv Loca Com (Inco	th Authority/ th Service /ery Area/ al Health Area/ imunity orporated Only)	Type <sup>†</sup>	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)
	HSDA	23 FF	RASI	ER SO	UTH						
	LHA 035	Langley		M F	63,856 65,534	749 724	430 460		7	38.3 40.3	78.7 82.9
Emps.		Langley	С	T M	129,390	1,473 143	890 117	777	12 -	39.3	80.9
		Langley	DM	F T M	25,526	159 302 605	141 258 307	221	- 1 7		
		_ag.o,		F		565	310		4		
				Т	103,267	1,170	617	556	11		
	LHA 037	' Delta		M F T	50,055 50,580 100,635	436 397 833	312 339 651	231	1 3 6	39.7 41.6 40.6	80.5 83.8 82.2
7		Delta	DM	M		434	310		1		
				F	00.000	394	338	004	3		
	LHA 201	Surrov		T M	99,862 192,453	828 2,707	648 911	231	6 24	35.8	79.3
201	LHA 201	·	С	F T	189,254 381,707	2,478 5,185	875 1,786 911	1,097	21 56	37.3 36.5	83.2 81.3
35		Surrey		M F T	446,561	2,706 2,478 5,184	875 1,786	1,096	24 21 56	40.0	00.0
	LHA 202	South Surrey White Rock	//	M F	40,133 44,118	288 242	383 464		2 2	43.9 47.4	80.6 85.1
		Wille NOCK		T	84,251	530	847	423	4	45.7	83.0
		White Rock	С	M F	·	66 49	114 177		-		30.0
		TOTAL		T M	19,102 <b>346,497</b>	115 <b>4,180</b>	291 <b>2,036</b>	79	34	37.8	79.5
		TOTAL		F	349,486	3,841	2,138		30	39.7	83.6
la banda la	HA 02	EDACED		T	695,983	8,021	4,174	2,528	78	38.8	81.6
	HA 02	FRASER TOTAL		M F T	783,577 789,046 1,572,623	9,307 8,552 17,859	4,836 4,857 9,693	5,967	79 83 190	37.8 39.7 38.8	79.3 83.5 81.5
5	HSDA		СНМ	1							
	LHA 038	Richmond		M F T	94,369 98,886 193,255	952 837 1,789	427 450 877	1,010	8 2 11	39.0 40.4 39.7	82.9 86.7 84.9
-		Richmond	С	M F T	193,255	952 837 1,789	427 450 877	1,010	8 2 11		
7		TOTAL		M F T	94,369 98,886 193,255	952 837 1,789	427 450 877	1,010	8 2 11	39.0 40.4 39.7	82.9 86.7 84.9
					,			·			

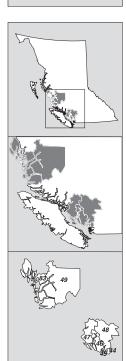






Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)  HSDA 32 VANC	Gender OUVE	Population R	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)	
1110 404 \/an an	N.4	CO 004		077		0	20.2	70.4	
LHA 161 Vancouver -	M	60,991	555	377		6	39.3	78.4	
City Centre	F	58,359	506	302	4.07.4	4	40.1	84.7	
	T	119,350	1,061	679	1,274	12	39.7	81.5	
LHA 162 Vancouver -	M	35,221	246	287		6	41.1	73.8	
Downtown	F	29,427	310	183		1	40.8	84.5	
Eastside	T	64,648	556	470	566	9	41.0	78.0	
LHA 163 Vancouver -	M	51,750	545	299		5	38.7	81.4	
North East	F	52,891	557	283		4	40.5	85.0	
	T	104,641	1,102	582	350	11	39.6	83.2	
LHA 164 Vancouver -	M	63,615	555	333		3	38.0	82.1	
Westside	F	69,546	566	378		7	40.5	86.7	
	Т	133,161	1,121	711	1,128	11	39.3	84.5	
LHA 165 Vancouver -	M	43,274	532	244		3	38.1	80.2	
Midtown	F	44,928	520	210		-	39.5	84.8	
	T	88,202	1,052	454	442	3	38.8	82.5	
LHA 166 Vancouver -	M	64,651	665	351		7	39.1	82.3	
South	F	68,555	636	486		1	41.5	84.8	
	Т	133,206	1,301	837	310	12	40.4	83.6	
TOTAL	M	319,502	3,098	1,891		30	39.0	80.0	
	F	323,706	3,095	1,842		17	40.5	85.1	
	Т	643,208	6,193	3,733	4,071	59	39.7	82.6	
HSDA 33 NORTI	H SHOR	67,338	GARIBA 627	<b>364</b>		6	39.3	81.0	
	F	70,717 138,055	592 1,219	429 793	448	10 20	41.5 40.5	84.8 83.0	
North C	М	274	142			4			
Vancouver	F		255	155		6			
	Т	48,881	529	297	129	11			
North DM	M		345	214		1			
Vancouver	F		326	272		4			
	Т	86,725	671	486	315	8			
LHA 045 West Vancouver-	M	24,321	119	195		2	43.5	82.7	
Bowen Island	F	27,075	135	272		3	46.0	85.9	
	Т	51,396	254	467	283	5	44.8	84.4	
Bowen Island IM	M		15	9		-			
	F		16	4		-			
	Т	3,608	31	13	24	-			
Lions Bay VL	M		2	3		-			
•	F		5	1		-			
	Т	1,398	7	4	7	-			
West DM	1			470		2			
	M		93	173					
Vancouver	M F		93 104			2			
Vancouver	F	43,307		250 423	248				
Vancouver  LHA 046 Sunshine Coast		43,307 14,364	104	250	248	2	45.8	80.2	
	F T		104 197	250 423 147	248	2 4	45.8 46.7		
	F T M	14,364 15,187	104 197 107 106	250 423 147 125	248	2 4 1	46.7	83.5	
	F T M F T	14,364	104 197 107	250 423 147		2 4 1 2			
LHA 046 Sunshine Coast	F T M F	14,364 15,187	104 197 107 106 213	250 423 147 125 272		2 4 1 2 3	46.7	83.5	
LHA 046 Sunshine Coast	F T M F T	14,364 15,187	104 197 107 106 213 37 31	250 423 147 125 272 45 37		2 4 1 2 3	46.7	83.5	
LHA 046 Sunshine Coast	F T M F T M F	14,364 15,187 29,551	104 197 107 106 213 37	250 423 147 125 272 45	290	2 4 1 2 3	46.7	83.5	
LHA 046 Sunshine Coast  Gibsons T	F T M F T M F	14,364 15,187 29,551	104 197 107 106 213 37 31 68	250 423 147 125 272 45 37 82	290	2 4 1 2 3	46.7	83.5	





# STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY BRITISH COLUMBIA, 2009

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)
LHA 047 Powell River	M F T	9,852 9,976 19,828	77 69 146	107 104 211	102	2 1 3	44.2 45.7 44.9	77.0 83.2 80.1
Powell River C	M F T	13,338	59 38 97	82 84 166	58	- 1 1		
LHA 048 Howe Sound	M F T	18,408 16,376 34,784	250 221 471	76 45 121	406	2 - 3	35.4 35.7 35.6	79.5 82.8 81.0
Pemberton VL	M F T	2,416	35 23 58	3 2 5	22			
Squamish DM	M F T	17,181	146 130 276	47 36 83	79	2 - 3		
Whistler DM	M F T	10,228	46 37 83	12 2 14	261	-		
LHA 049 Bella	M	1,488	16	9	201	-	38.3	75.7
Coola Valley	F	1,405	15	5		_	39.4	82.2
ossia valley	T	2,893	31	14	4	-	38.8	78.6
LHA 083 Central Coast	М	765	11	6		1	34.1	Χ *
	F	702	12	6		1	33.9	Χ *
	Т	1,467	23	12	9	4	34.0	70.5
TOTAL	M	136,536	1,207	904		14	40.5	80.6
	F	141,438 277,974	1,150 2,357	986 1,890	1,542	17 38	42.5 41.5	84.4 82.6
HA 03 VANCOUVER	M	550,407	5,257	3,222	1,542	52	39.4	80.6
COASTAL	F.	564,030	5,082	3,278		36	41.0	85.1
TOTAL	Т	1,114,437	10,339	6,500	6,623	108	40.2	82.9

#### HSDA 41 **SOUTH VANCOUVER ISLAND**



٦	LHA 061 Greater Victoria	a	M	105,955	975	997		9	40.8	79.0
			F	115,598	866	1,133		5	43.7	83.7
			Т	221,553	1,841	2,130	1,178	15	42.3	81.5
	Esquimalt [	DM	M		92	59		2		
			F		86	62		2		
			Т	17,682	178	121	107	4		
	Oak Bay [	DM	M		59	108		-		
			F		44	118		-		
			Т	18,012	103	226	89	-		
	Saanich [	MC	M		408	294		3		
			F		357	258		2		
			Т	113,516	765	552	213	5		
	Victoria	С	M		360	485		3		
			F		313	659		1		
			Т	82,785	673	1,144	741	5		
	View Royal	Т	M		40	38		1		
			F		59	22		-		
			Т	9,583	99	60	23	1		

# STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

British Columbia, 2009

Hea Deli Loca Con	Ith Authority/ Ith Service very Area/ al Health Area/ nmunity orporated Only)	Type <sup>†</sup>	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)
LHA 062	2 Sooke		M F	32,691 32,374	387 383	211 171		2 3	38.2 38.7	80.2 82.3
			Т	65,065	770	382	451	5	38.4	81.3
LHA 062	2 Sooke		M	33,535	402	194		5	38.1	80.0
			F	33,183	357	168		1	39.2	82.8
			T	66,718	759	362	390	6	38.6	81.5
	Colwood	С	M		93	48		1		
			F		91	52				
			Т	16,174	184	100	112	1		
	Highlands	DM	M		7	3				
			F		8	1				
			Т	2,175	15	4		3		
	Langford	С	M		192	72		2		
			F		151	57		1		
			Т	27,328	343	129	74	3		
	Metchosin	DM	M		23	18				
			F		22	15				
			Т	5,133	45	33	50			
	Sooke	DM	M		72	45		2		
			F		77	37				
			Т	10,540	149	82	116	2		
LHA 063	3 Saanich		M	30,656	198	331		2	45.7	81.0
			F	32,943	187	300		2	48.0	85.0
			T	63,599	385	631	332	4	46.9	83.1
	Central	DM	M		57	68				
	Saanich		F		56	92				
			Т	16,170	113	160	94			
	North	DM	M		23	37		1		
	Saanich		F		25	31				
			T	11,021	48	68	53	1		
	Sidney	Т	M		37	86				
			F		31	80		1		
			Т	11,578	68	166	57	1		
LHA 064	4 Gulf Islands		M	7,578	46	85		1	48.6	81.0
			F	8,130	36	62		1	49.9	X *
			T	15,708	82	147	183	2	49.2	83.8
	TOTAL		M	177,724	1,621	1,607		17	41.5	79.8
			F	189,854	1,446	1,663	0.000	9	43.9	84.0
			Т	367,578	3,067	3,270	2,083	27	42.7	82.0
HSDA	42 CE	ENTR	AL VAN	ICOUVER	ISLAND					
IHA OG	5 Cowichan		М	28,232	275	238		2	41.2	78.7
LITA UO	Cowician		F	28,668	268	201		-	42.5	82.6
			Ť	56,900	543	439	300	2	41.8	80.6
	Duncan	С	M	00,000	23	63	500	1	71.0	00.0
	2 4.70411		F		27	87		-		
			T	5,008	50	150	32	1		
	North	DM	M	3,000	119	88	<u>ي</u>	-		
	Cowichan		F		108	54		_		
	50111011011		T	29,493	227	142	82	_		
LHA 066	6 Lake Cowich	nan	M	3,288	25	17	<u></u>	-	42.1	78.2
			F	3,135	17	22		-	42.1	X *
			T.	6,423	42	39	29	-	42.1	80.6
	Lake	Т	М		17	11		-		

15

3,182

Cowichan

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# STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY BRITISH COLUMBIA, 2009

Health Authority/ Health Service										
Delivery Area/										
Local Health Area/									Life	
Community	Typo†							Average Age	Expectancy	
(Incorporated Only)	Type <sup>†</sup>	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Population	(2005-2009)	



		ı							
LHA 067 Ladysmith		М	8,945	71	117		2	45.7	76.1
·		F	9,421	69	130		-	46.7	81.0
		Т	18,366	140	247	89	2	46.2	78.5
Ladysmith	Т	М	-,	33	49		1		
	-	F		30	58		-		
		Т	8,118	63	107	36	1		
LHA 068 Nanaimo		M	50,546	487	465		1	41.7	78.1
2		F	52,343	436	410		3	43.6	82.8
		T	102,889	923	875	387	4	42.7	80.5
Lantzville	DM	M	102,000	16	21	001	-	12.7	00.0
Lantzviile	DIVI	F		13	14		_		
		T	3,701	29	35	22	_		
Nanaimo	С	M	0,701	422	391	22	1		
Ivananno	O	F		378	364		3		
		Т	84,228	800	755	292	4		
LHA 069 Qualicum		M	22,050	128	286	202	1	49.1	79.1
LITA 003 Qualicum		F	23,306	109	244		1	50.8	83.9
		Т	45,356	237	530	333	2	50.0	81.5
Parksville	С	M	43,330	44	97	333	-	30.0	01.0
i aiksviiic	C	F		33	111		_		
		Т	11,783	77	208	117			
Qualicum	Т	M	11,703	10	118	117	_		
Beach	'	F		14	71		-		
Deacii		T.	8,766	24	189	62	_		
LHA 070 Alberni		M	16,007	192	160	02	_	41.4	75.2
LITA OTO AIDEITII		F	15,535	164	139		1	42.2	80.7
		T	31,542	356	299	526	1	41.8	77.8
Port Alberni	С	M	31,342	100	107	320	-	41.0	11.0
I OIT AIDEITII	C	F		104	107		_		
		T	17,741	204	216	61	_		
Tofino	DM	M	17,741	18	5	01	_		
1011110	DIVI	F		18	3		-		
		T	1,829	36		349	-		
Ucluelet	DM	M	1,029	36 18	8 6	348	-		
Uciueiei	ואוט	F		10	8		-		
		T	1,591	29	14	70	-		
TOTAL		M	1,591 129,068	1,178	1,283	70	6	43.1	78.0
IOIAL		F	132,408	1,176	1,265		5	44.6	82.6
		T	261,476	2,241	2,429	1,664	11	43.9	80.3
			201,470	Z,Z4 I	2,423	1,004	- 11	43.3	00.5

#### HSDA 43 NORTH VANCOUVER ISLAND

LHA 071 Courtenay	M	31,340	266	288		2	42.9	79.0
	F	32,744	228	244		2	44.4	83.6
	Т	64,084	494	532	333	4	43.7	81.3
Comox T	M		45	79		1		
	F		32	79		1		
	Т	13,444	77	158	57	2		
Courtenay C	M		112	96		-		
-	F		114	90		-		
	Т	24,216	226	186	109	-		
Cumberland VL	M		30	16		-		
	F		15	21		-		
	Т	3,163	45	37	8	-		

HA 0	4 VANCOUVE ISLAND TOTAL	R	M F T	366,835 382,534 749,369	3,368 3,030 6,398	3,390 3,245 6,635	4,341	29 17 47	42.1 44.0 43.1	78.8 83.3 81.1	
	TOTAL		M F T	60,043 60,272 120,315	569 521 1,090	500 436 936	594	6 3 9	41.6 42.8 42.2	77.8 82.5 80.1	
	TOTAL		Т	161	4	2		-	44.0	77.0	
	Zeballos	VL	M F	2,618	35 1 3	2	5	- -			
	Port McNeill	Т	M F T	2 610	19 16 35	9 4 13	5	1 - 1			
	Dort MoNoill	т	F T	3,986	31 83	17 30	13	- - 1			
	Port Hardy	DM	T M	842	9 52	6 13	4	-			
	Port Alice	VL	T M F	478	15 5 4	12	6	- - -			
	Alert Bay	VL	M F	12,287	159 8 7	73 2 10	37	1 - -	38.0	75.6	
LHA	085 Vancouver Island North	1	M F	6,463 5,824	90 69	40 33		1 -	38.1 37.9	74.0 77.3	
	Tahsis	VL	M F T	381	1 1 2	1 1 2		-			
	Gold River	VL	M F T	1,425	8 11 19	9 2 11	3	- - -			5
LHA	084 Vancouver Island West		M F T	1,265 1,099 2,364	9 15 24	10 3 13	3	- - -	42.0 39.9 41.0	87.3 X * 86.1	
	Sayward	VL	T M F T	31,328 331	343 1 2 3	269 1 2 3	152 5	2 - -			
	Campbell River	С	M F	41,580	413 168 175	318 134 135	221	4 1 1	41.4	79.5	
LHA	072 Campbell River		M F	20,975 20,605	204 209	162 156		3 1	40.9 41.8	77.3 81.9	5
	Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type <sup>†</sup>	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)	

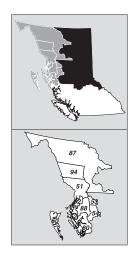


# STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

British Columbia, 2009

Health Authority/										ı
Health Service										l
Delivery Area/										
Local Health Area/									Life	
Community	Type <sup>†</sup>							Average Age	Expectancy	l
(Incorporated Only)	, ype	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Population	(2005-2009)	

#### HSDA 51 NORTHWEST



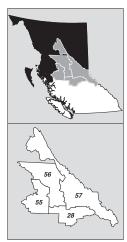
LHA 05	0 Queen Cha	rlotte	M	2,431	12	22		1	39.2	73.0 *
			F T	2,221 4,652	25 37	12 34	21	1	39.3 39.2	81.9 * 76.9
	Masset	VL	M	4,002	8	7	21	1	39.2	76.9
	Masset	٧L	F		17	6		-		
			Т	929	25	13	8	1		
	Port Cleme	ents VI	M	020	1	2	Ü	-		
			F		1	_		_		
			Т	453	2	2	2	-		
LHA 05	1 Snow Cour	ntry	M	247		4		-	41.1	75.8
			F	243	3			-	38.7	X *
			Т	490	3	4	1	-	39.9	79.4
	Stewart	DM	M			4		-		
			F		3		_	-		
			T	444	3	4	1	-		
LHA 05	2 Prince Rup	ert	M	7,145	89	49		1	37.9	75.9
			F T	7,097	91	41	20	-	38.2	80.9
	Port Edwar	'4 DM	M	14,242	180 2	90	39	1	38.0	78.2
	Poit Edwar	u Divi	F		3	3		-		
			T	570	5	3	5			
	Prince Rup	ert C	M	070	86	47	Ü	1		
	T TITLOO T COP	0.1. 0	F		82	38		-		
			T	12,846	168	85	33	1		
LHA 05	3 Upper Skee	ena	М	2,845	35	15		1	35.8	78.9
			F	2,563	43	8		-	35.8	X *
			Т	5,408	78	23	15	1	35.8	80.2
	Hazelton	VL	M		20	9		1		
			F		27	6		-		
			Т	304	47	15	10	1		
	New	DM	M		9	3		-		
	Hazelton		F	00.4	8	0	4	-		
1114 05	4 Smithers		T	604	17	3	4	-	27.4	77 F
LHA US	4 Smilliers		M F	8,186 7,784	109 108	50 36		-	37.1 37.3	77.5 81.5
			T	15,970	217	86	82	3	37.3	79.3
	Houston	DM	M	10,070	25	8	02	-	07.2	70.0
	110001011	Divi	F		21	6		_		
			T	2,958	46	14	11	-		
	Smithers	Т	M	•	43	26		-		
			F		44	20		-		
			Т	5,321	87	46	35	1		
	Telkwa	VL	M		18	6		-		
			F		11	2		-		
	0.1411		T	1,357	29	8	13	-		
LHA 08	0 Kitimat		M	5,401	59	45		-	39.2	X *
			F	4,896	58	25	0.4	-	39.7	82.1
	Kitimat	DM	T	10,297	117	70 27	34	-	39.4	79.6
	riiiiildl	DM	M F		51 52	37 21		-		
			T	9,226	103	58	31	-		
			Ι .	0,220	. 50	30	Ŭ.			

### STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY BRITISH COLUMBIA, 2009

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type <sup>†</sup>	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)
LHA 087 Stikine		M F	524 487	5 5	3 2	_	-	40.3 40.3	75.8 X *
LHA 088 Terrace		T M F	1,011 10,307 9,970	10 128 131	5 95 52	5	3 2	40.3 37.4 38.0	79.4 76.5 79.8
Terrace	С	M F	20,277	259 68 79	147 53 30	84	5 2 2	37.7	78.0
LHA 092 Nisga'a		T M	11,675 1,033	147 24	83 7	48	4	35.6	X *
LHA 092 NISGA A		F	935	16	3		-	34.5	X *
LHA 094 Telegraph		T M	1,968 362	40 6	10 1	6	-	35.1 33.1	73.8 * 75.8
Creek		F T	330 692	3	2	3	-	32.9 33.0	X * 79.4
TOTAL		M F T	38,481 36,526 75,007	467 483 950	291 181 472	290	6 2 11	37.6 38.0 37.8	76.4 80.9 78.5

#### HSDA 52 **NORTHERN INTERIOR**

LHA 028 Quesnel		M	11,830	140	93		2	40.2	76.4
		F	11,754	118	76		1	40.6	81.8
		Т	23,584	258	169	88	3	40.4	79.0
Quesnel	С	M		74	43		2		
		F		73	45		1		
		Т	9,710	147	88	34	3		
Wells	DM	М		3	1		-		
		F		1			-		
		Т	257	4	1	1	-		
LHA 055 Burns Lake		M	4,096	49	36		-	38.1	76.3
		F	3,784	50	24		-	38.3	79.8
		Т	7,880	99	60	36	1	38.2	77.9
Burns Lake	VL	М		41	26		-		
		F		46	21		-		
		Т	2,114	87	47	32	-		
Granisle	VL	М	,	4	6		-		
		F		2	3		-		
		Т	396	6	9		-		
LHA 056 Nechako		М	7,773	125	65		1	37.2	74.8
		F	7,237	106	36		1	37.4	79.9
		Т	15,010	231	101	61	2	37.3	77.1
Fort	DM	М	-,-	41	17		-		
St. James		F		30	11		1		
		Т	1,322	71	28	15	1		
Fraser Lake	VL	М	•	10	11		1		
		F		11	4		-		
		Т	1,122	21	15	11	1		
Vanderhoof	DM	М	,	58	30		_		
		F		60	20		_		
		T	4,143	118	50	28	_		
LHA 057 Prince Georg	ae	M	48,990	580	319		8	37.5	76.5
		F	47,117	553	260		5	38.1	81.3
		T	96,107	1,133	579	435	13	37.8	78.8
			,	.,					



### STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY BRITISH COLUMBIA, 2009

Hea Del Loc Cor	alth Authority/ alth Service livery Area/ cal Health Area/ mmunity corporated Only)	Type <sup>†</sup>	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)
	Mackenzie	DM	M		19	7		-		
			F		22	5		-		
			Т	3,827	41	12	16	-		
	McBride	VL	M		5	9		-		
			F		2	5		-		
			Т	674	7	14	7	-		
	Prince Georg	ge C	M		488	240		6		
			F		473	223		5		
			Т	74,547	961	463	324	11		
	Valemount	VL	M		4	6		1		
			F		4			-		
			Т	1,044	8	6	23	1		
	TOTAL		M	72,689	894	513		11	37.9	76.3
			F	69,892	827	396		7	38.4	81.1
			Т	142,581	1,721	909	620	19	38.2	78.6

#### HSDA 53 **NORTHEAST**



LHA 059 Peace River	M	13,885	158	92		1	37.2	77.0
South	F	13,091	178	84	4.40	2	38.3	80.5
	T	26,976	336	176	146	3	37.7	78.7
Chetwynd DM	M F		25	11 9		1		
	T	0.676	29 54	20	16	1 2		
Dawson Creek C	M	2,676	90	48	10	_		
Dawson Creek C	F		90	46 45		1		
	' <sub>T</sub>	11,514	180	93	72	1		
Pouce Coupe VL	M	11,514	7	11	12	' -		
1 odec coupe ve	F		8	17		_		
	T	746	15	28	12	_		
Tumbler DM	l M		10	6		_		
Ridge	F		20	5		_		
1.1.29	T	2,450	30	11	14	_		
LHA 060 Peace River	M	18,109	332	83		1	33.3	76.8
North	F	16,704	284	59		3	33.4	82.6
	Т	34,813	616	142	160	4	33.4	79.5
Fort St. John C	M		192	51		-		
	F		183	45		3		
	T	19,457	375	96	79	3		
Hudson's DM	M		7	5		-		
Hope	F		1	2		-		
	T	1,051	8	7	3	-		
Taylor DM	M		17	5		-		
	F		13	3		-		
	T	1,480	30	8	15	-		
LHA 081 Fort Nelson	M	3,290	54	16		-	32.7	75.4
	F	2,826	40	7	0.5	-	31.3	X *
Fort Nelson T		6,116	94	23	25	-	32.1	77.4
Fort Nelson T	M F		53 39	16 7		-		
	T	N/A	39 92	23	25	-		
TOTAL	M	35,284	544	191	25	2	34.8	76.8
IOIAL	F	32,621	502	150		5	35.2	81.6
	l T	67,905	1,046	341	331	7	35.0	79.1
			.,				23.0	

## STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

British Columbia, 2009

Hea Deli Loc Cor	alth Authority/ alth Service ivery Area/ sal Health Area/ mmunity Type <sup>†</sup>	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2005-2009)
HA 05	NORTHERN TOTAL	M F	146,454 139,039 285,493	1,905 1,812 3,717	995 727 1,722	1,241	19 14 37	37.1 37.5 37.3	76.4 81.2 78.6
HA 06	PROVINCIAL HEALTH SERVICE AUTHORITY (PROVINCIAL TO)	M F T	2,210,308 2,244,899 4,455,207	23,179 21,729 44,908	15,991 15,236 31,227	22,469	201 169 429	39.5 41.3 40.4	79.2 83.6 81.4

Note: Live births, stillbirths and deaths are assigned to communities based on the postal code of usual residence.

Marriages are assigned according to the place where the marriage ceremony was performed, and include non-residents. Totals for gender include cases with unknown gender.

Population estimates and average age (2009) and life expectancy (2005 -2009) from BC STATS, Ministry of Citizens' Services.

† C=City, T=Town, VL=Village, DM=District Municipality, IGD= Indian Government District, IM=Island Municipality, RM=Resort Municipality.

Some communities span the boundaries of more than one LHA. When this occurs, the community is shown under the LHA containing the larger portion of the population.

HSDA 32 Vancouver Total may include unspecified Vancouver addresses.

<sup>\*</sup>This may be too small a population size to estimate Life Expectancy with any confidence.

<sup>\*\*</sup>LHAs 51, 87, 94 have been combined to have a common life expectancy as they individually include regions too small for calculation.

<sup>&</sup>quot;X" means that the value has been suppressed for reasons of data quality.

# Appendix Two



Detailed Cause of Death by Gender and Age British Columbia, 2009

connective tissue

### Preamble to Appendix 2

Appendix 2 provides detailed causes of death by gender and age group for deaths that occurred in British Columbia to provincial residents in the current year. Causes of death are coded according to the World Health Organization's International Statistical Classification of Diseases and Related Health Problems, Tenth Revision (ICD-10). ICD-10 defines the underlying cause of death as "(a) the disease or injury which initiated the train of events leading directly to death, or (b) the circumstances of the accident or violence which produced the fatal injury." ICD-10 codes consist of a letter followed by a two-digit number, and sometimes include a third digit to provide more specificity. In this appendix, the ICD-10 codes are presented at the three character level only, truncating the third digit.

The list below provides a summary of ICD-10 codes, including many of the subgroups used for underlying causes of death in this report:

Cause of Death Category	ICD-10 Code(s)
Certain infectious and parasitic diseases Tuberculosis HIV disease	A00-B99 A15-A19, B90 B20-B24
Neoplasms Malignant neoplasms Malignant neoplasm of colon and rectum Malignant neoplasm of lung Malignant neoplasm of female breast Diseases of blood and blood-forming organs and	C00-D48 C00-C97 C18-C21 C34 C500-C509 D50-D89
disorders involving the immune mechanism Endocrine, nutritional, and metabolic diseases Diabetes mellitus	E00-E90 E10-E14
Mental and behavioural disorders Vascular/senile dementia Psychoactive substance and drug use/abuse	F00-F99 F01, F03 F11-F16, F19
Diseases of the nervous system Alzheimer's disease	G00-G99 G30
Diseases of the eye and adnexa	H00-H59
Diseases of the ear and mastoid process	H60-H95
Diseases of the circulatory system Cardiovascular disease Ischemic heart diseases Cerebrovascular diseases Atherosclerosis	I00-I99 I00-I51 I20-I25 I60-I69 I70
Diseases of the respiratory system Pneumonia/Influenza (excluding hypostatic) Chronic Pulmonary Disease Asthma	J00-J99 J10-J181, J188, J189 J40-J44 J45-J46
Diseases of the digestive system Diseases of liver Chronic liver disease/cirrhosis	K00-K93 K70-K76 K70, K73-74, K760-K761
Diseases of the skin and subcutaneous tissue	L00-L99
Diseases of the musculoskeletal system and	M00-M99

Diseases of the genitourinary system N00-N99 Complications of pregnancy, childbirth, and O00-O99 the puerperium Certain conditions originating in the perinatal P00-P96 period Q00-Q99 Congenital malformations and chromosome abnormalities Symptoms, signs and abnormal findings, R00-R99 unknown causes Sudden infant death syndrome (SIDS) R95

External causes V01-Y98

> V02-V04, V09, V12-V14, V190-Motor vehicle accidents V196, V20-V79, V803-V805, V820-

R96-R99

V821, V823-V890, V899, Y850 Other transport accidents V01, V05-V06, V10-V11, V15-V18, V198-V199, V800-V802, V806-V809, V812-V819, V822-V829, V891, V893, V91, V93-V99, Y859

V90, V92, W65-W74 Unintentional drowning (including water

Cause of death unknown or pending

transport)

Unintentional falls W00-W19 Exposure to smoke, fire and flames X00-X09 Unintentional poisoning X40-X49 Suicide X60-X84, Y870 Homicide X85-Y09, Y871

#### Appendix 2

#### DETAILED CAUSE OF DEATH BY GENDER AND AGE

British Columbia, 2009

							Age of D	eceased (	in Years)				
CD-1	O Cause of Death	Gender	<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	<del>80+</del>	- Tot
104	Other bacterial intestinal infections	М	-	-	-	-	-	-	-	1	7	22	3
0.4	Other be extended into the elimination of	F	-	-	-	-	-	-	-	-	10	38	
.04	Other bacterial intestinal infections	M F	-	-	-	-	-	-	-	1 -	2 9	20 34	:
.08	Viral and other specified	M	-	-	-	-	-	-	-	2	2	4	
	intestinal infections	F	-	-	-	-	-	-	-	-	-	9	
.09	Diarrhoea and gastroenteritis of	М	1	-	-	-	-	-	-	-	3	11	
	presumed infectious origin	F	-	-	-	-	-	-	-	-	1	24	
16	Respiratory tuberculosis	M F	-	-	-	-	-	-	1	- 1	2	2 2	
40	Streptococcal septicemia	M	-	-	-	-	-	-	1	-	1	2	
		F	-	1	-	-	-	-	-	-	1	1	
41	Other septicemia	М	-	-	1	-	-	-	3	11	29	51	
	5	F	-	-	-	-	1	-	1	10	22	56	
49	Bacterial infection of unspecified site	M F	-	-	-	-	-	-	-	1	3 1	1 1	
18	Chronic viral hepatitis	M	-	-	-	-	-	-	3	61	9	6	
,,,	Childring viral Hopaulio	F	-	-	-	-	-	-	3	24	8	4	
20	HIV resulting in infectious	М	-	-	-	-	-	-	6	12	4	-	
	and parasitic diseases	F	-	-	-	-	-	-	4	4	-	-	
21	HIV resulting in malignant neoplasms	M	-	-	-	-	-	-	4	8	-	-	
22	HIV resulting in other	F M	-	-	-	-	-	-	-	5	-	-	
22	specified diseases	F	-	-	-	_	-	-	-	1	-	_	
23	HIV disease resulting in	M	-	-	-	-	-	-	1	4	1	-	
	other conditions	F	-	-	-	-	-	-	-	-	-	-	
24	Unspecified HIV disease	М	-	-	-	-	-	-	-	5	2	1	
00	0 1 (11 1 1	F	-	-	-	-	-	-	-	1	-	-	
90	Sequelae of tuberculosis	M F	-	-	-	-	-	-	-	2	2	2 2	
91	Post polio syndrome	M	-	-	-	-	-	-	-	1	-	1	
		F	-	-	-	-	-	-	-	-	1	2	
94	Sequelae of other and unspecified	М	-	-	-	-	-	-	-	-	-	3	
	infectious and parasitic diseases	F	-	-	-	-	-	-	-	-	-	2	
:02	Malignant neoplasm of other and	M F	-	-	-	-	-	-	- 1	13 3	10 5	2 5	
:05	unspecified parts of tongue Malignant neoplasm of palate	M	-	-	-	-	-	-	-	1	2	1	
,00	Walighant heopiasm of palate	F	_	-	-	-	-	-	-	1	1	2	
06	Malignant neoplasm of other and	М	-	-	-	-	-	-	-	2	4	-	
	unspecified parts of mouth	F	-	-	-	-	-	-	-	1	2	7	
07	Malignant neoplasm of parotid gland	M	-	-	-	-	-	-	1	2	3	5	
00	Malignant neoplasm of tonsil	F M	-	-	-	-	-	-	-	2 6	1	1	
,09	Manghant neoplasm of tonsii	F	-	-	-	-	-	-	-	-	-	1	
10	Malignant neoplasm of oropharynx	M	-	-	-	-	-	-	2	7	3	1	
		F	-	-	-	-	-	-	-	-	3	1	
:11	Malignant neoplasm of nasopharynx	М	-	-	-	-	-	-	2	5	4	-	
	M. II	F	-	-	-	-	-	1	-	1	-	1	
712	Malignant neoplasm of pyriform sinus	M F	-	-	-	-	-	-	-	3	2	-	
:14	Malig. neoplasm of other & ill-defined	M	-	-	-	-	-	-	-	9	9	7	
	in the lip, oral cavity and pharynx	F	-	-	-	-	-	-	-	1	4	1	
:15	Malignant neoplasm of esophagus	М	-	-	-	-	-	-	3	70	78	37	1
		F	-	-	-	-	-	-	-	16	25	25	
16	Malignant neoplasm of stomach	M F	-	-	-	-	-	-	2	38	48	29	1
17	Malignant neoplasm of small intestine	M	-	-	-	-	-	-	4	16 4	29 6	31 2	
	mangriant neoplasm or small intestine	F	-	-	-	-	-	-	-	3	3	2	
18	Malignant neoplasm of colon	M	-	-	-	-	-	-	5	88	161	135	3
		F	-	-	-	-	-	-	11	67	104	159	3
	Malignant neoplasm of	M								12	13	9	;

#### DETAILED CAUSE OF DEATH BY GENDER AND AGE

British Columbia, 2009

OD :	IO Course of Death	Comilia		4 4	F ^	10 11	Age of D			45.04	CF 70	0.0	-
CD-1	10 Cause of Death	Gender	<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	+08	Tot
20	Malignant neoplasm of rectum	M	-	-	-	-	-	-	2	22	41	24	
		F	-	-	-	-	-	-	-	14	20	35	
21	Malignant neoplasm of anus	M	-	-	-	-	-	-	-	5	5	-	
.00	and anal canal	F	-	-	-	-	-	-	-	7	1	4	
,22	Malignant neoplasm of liver and intrahepatic bile ducts	M F	-	-	-	-	-	-	4 1	68 27	75 37	46 30	1
23	Malignant neoplasm of gallbladder	M	-	-	-	-	-	-	-	5	5	4	
	Manghani neoplaom of ganetadae	F F	_	_	_	_	_	_	_	5	15	9	
24	Malignant neoplasm of other and	M	-	-	-	-	-	-	-	5	9	6	
	unspecified parts of biliary tract	F	-	-	-	-	-	-	-	3	4	7	
25	Malignant neoplasm of pancreas	M	-	-	-	-	-	-	3	84	147	80	3
		F	-	-	-	-	-	-	1	39	101	95	2
26	Malignant neoplasm of other and	M	-	-	-	-	-	-	2	20	34	28	
	ill-defined digestive organs	F	-	-	-	-	-	-	-	11	21	31	
31	Malignant neoplasm of accessory	M	-	-	-	-	-	-	-	2	3	-	
	sinuses	F	-	-	-	-	-	-	-	1	1	-	
32	Malignant neoplasm of larynx	M	-	-	-	-	-	-	-	13	12	9	
34	Malignant popularm of branchus	F	-	-	-	-	-	1	-	2	2	2	1 1
34	Malignant neoplasm of bronchus and lung	M	-	-	-	-	-	1	5 12	268 274	593 492	319 304	1,1 1,0
37	Malignant neoplasm of thymus	M	-	-	-	-	-	1	12	1	492	304	1,0
JI	manghant noopiasin of thymus	F	-		-	-	_	-	-	1	1	1	
38	Malignant neoplasm of heart,	M	-	-	-	-	-	-	-	1	2	1	
	mediastinum and pleura	F	-	-	-	-	-	-	-	-	1	-	
41	Malig. neop. of bone & articular	M	-	-	-	1	1	1	1	1	3	2	
	cartilage of other & unspecified sites	F	-	-	-	-	1	1	1	3	2	3	
43	Malignant melanoma of skin	M	-	-	-	-	-	-	3	27	22	24	
		F	-	-	-	-	-	2	4	20	18	16	
44	Other malignant neoplasms of skin	M	-	-	-	-	-	-	-	7	8	16	
		F	-	-	-	-	-	-	-	3	1	8	
45	Mesothelioma	M	-	-	-	-	-	-	-	10	27	15	
		F	-	-	-	-	-	-	-	1	4	6	
48	Malignant neoplasm of peritoneum	M	-	-	-	-	-	-	-	1	2	-	
10	& retro-peritoneum	F	-	-	-	-	-	-	-	3	7	5	
,49	Malignant neoplasm of other connective and soft tissue	M F	-	-	-	-	1	-	1 2	10 16	8 4	14 6	
·50	Malignant neoplasm of breast	M	-	-	-	-	-	-	-	2	1	3	
,50	Manghant neoplasm of breast	F	-		-	-			31	199	189	3 177	Ę
:51	Malignant neoplasm of vulva	M	_	-	-	_	-	-	-	-	-	-	
,01	Wanghant neoplasm of valva	l F	_	_	_	_	_	_	_	2	4	11	
52	Malignant neoplasm of vagina	M	-	-	-	-	-	-	-	-	-	-	
	g	F	_	-	-	-	-	-	-	1	2	2	
53	Malignant neoplasm of cervix uteri	М	-	-	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	6	14	5	8	
54	Malignant neoplasm of corpus uteri	M	-	-	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	2	14	26	14	
55	Malignant neoplasm of uterus,	M	-	-	-	-	-	-	-	-	-	-	
	part unspecified	F	-	-	-	-	-	-	2	9	11	11	
56	Malignant neoplasm of ovary	M	-	-	-	-	-	-	-	-	-	-	
		F	-	-	-	-	-	-	8	77	84	63	2
57	Malignant neoplasm of other and	M	-	-	-	-	-	-	-	-	-	-	
۰,	unspecified female genital organs	F	-	-	-	-	-	-	-	4	5	1	
61	Malignant neoplasm of prostate	M	-	-	-	-	-	-	1	47	186	328	5
64	Molionant page 1	F	-	-	-	-	-	-	-	-	-	-	
о4	Malignant neoplasm of kidney,	M F	-	-	-	-	-	-	4	29	58	38	1
66	except renal pelvis Malignant neoplasm of ureter	M	-	-	-	-	-	-	1 -	16 1	26 2	24	
00	mangriant neopiasin of ureter	F	-	Ţ			_	-	-	-	1	1	
67	Malignant neoplasm of bladder	M	-	-	-	-	-	-	1	21	88	97	2
01	mangriant hoopiasin or bladder	F	_	-	-	-	-	-	2	14	24	49	
										1			
68	Malignant neoplasm of other and	M	-	-	-	-	-	-	-		1	3	

#### DETAILED CAUSE OF DEATH BY GENDER AND AGE

British Columbia, 2009

								eceased (	in Years)				_
CD-	10 Cause of Death	Gender	<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	+08	To
71	Malignant neoplasm of brain	М	-	1	4	-	1	-	16	60	46	14	1
	M.B. and a state of	F	1	2	1	-	-	2	5	32	31	14	
73	Malignant neoplasm of thyroid gland	M F	-	-	-	-	-	-	-	5 3	7 4	5 5	
74	Malignant neoplasm of adrenal gland	М	-	-	-	-	1	-	-	4	-	-	
.=.		F	-	1	-	-	-	-	-	2	3	_	
576	Malignant neoplasm of other and ill-defined sites	M F	-	-	-	-	-	-	-	5 5	10 8	7 18	
280	Malignant neoplasm - primary	M	-	-	-	-	-	-	1	41	53	55	1
	site unknown	F	-	-	-	-	1	-	3	22	45	104	1
81	Hodgkin's disease	M F	-	-	-	-	1	-	- 1	2 1	3	1 2	
82	Follicular [nodular] non-Hodgkin's	M	-	-	-	-	-	-	-	1	4	-	
	lymphoma	F	-	-	-	-	-	-	-	2	3	1	
83	Diffuse non-Hodgkin's lymphoma	M F	-	-	-	-	-	-	1	7	10	5	
284	Peripheral and cutaneous T-cell	M	-	-	-	-	-	-	1	4	7	7	
	lymphomas	F	-	-	-	-	-	-	1	4	5	2	
85	Other and unspecified types of	M	-	-	-	-	-	-	6	34	78	62	1
าดก	non-Hodgkin's lymphoma  Multiple myeloma and malignant	F M	-	-	-	-	-	-	2	23 17	40 39	65 27	1
,30	plasma cell neoplasms	F	_	-	-	-	-	-	-	18	20	25	
91	Lymphoid leukemia	М	-	-	-	-	1	-	1	13	21	21	
	Microbial Incolorum	F	-	-	-	-	-	-	1	5	8	26	
92	Myeloid leukemia	M F	-	-	-	-	1	1	4 3	17 15	33 24	16 17	
95	Leukemia of unspecified cell type	M	-	-	-	-	-	-	-	8	11	12	
		F	-	-	-	-	-	-	-	5	4	9	
96	Other and unspec. malig. neopl. of lymphoid, hematopoietic & rel. tissue	M F	-	-	-	-	-	-	-	1 -	1	2 1	
32	Benign neoplasm of meninges	M	-	-	-	-	-	-	-	-	4	1	
		F	-	-	-	-	-	-	1	2	4	8	
37	Neoplasm of uncer./unk. behaviour of	M	-	-	-	-	-	-	-	-	2	1	
143	oral cavity and digestive organs  Neoplasm of uncer./unk. behaviour of	F M	-	-	-	-	-	-	-	2	3 2	3 4	
	brain & central nervous system	F	-	-	-	-	-	-	-	3	3	4	
45	Polycythemia vera	M	-	-	-	-	-	-	-	-	3	3	
146	Myelodysplastic syndromes	F M	-	-	-	-	-	-	1	2	1 17	1 25	
/40	inyelodyspiastic syndromes	F	-	-	-	-	1	-	-	1	11	28	
47	Neoplasm of uncer./unk. behaviour of	М	-	-	-	-	-	-	-	1	11	7	
	lymphoid, hematopoietic & rel. tissue	F	-	-	-	-	-	-	-	1	2	9	
48	Neoplasm of uncer./unk. behaviour of other and unspecified sites	M F	-	-	-	-	-	-	-	-	1 1	1 2	
61	Other aplastic anemias	M	-	-	-	-	-	-	1	-	1	3	
		F	-	-	-	-	-	-	-	1	2	1	
64	Other anemias	M F	-	-	-	-	-	-	-	2	1 5	15	
68	Other coagulation defects	M	-	-	-	-	-	-	-	2	- -	14 1	
	5	F	-	-	-	-	-	-	-	1	1	2	
69	Purpura and other hemorrhagic	M	-	-	-	-	-	-	-	-	-	3	
70	conditions Agranulocytosis	F M	-	-	-	1 -	-	-	1	1	3	2 5	
70	Agrandiocytosis	F	-	-	-	-	-	-	1		2	-	
86	Sarcoidosis	М	-	-	-	-	-	-	2	2	-	-	
00	Other hypothyraidiam	F	-	-	-	-	-	-	-	3	-	1	
03	Other hypothyroidism	M F	-	-	-		-	-	-	-	1	- 7	
10	Insulin-dependent diabetes mellitus	M	-	-	-	-	-	-	2	8	13	10	
		F	-	-	-	-	-	-	2	4	6	11	
11	Non-insulin-dependent diabetes	M	-	-	-	-	-	-	3	18	55	57	1

#### DETAILED CAUSE OF DEATH BY GENDER AND AGE

British Columbia, 2009

							Age of D	eceased (	in Years)				
ICD-	10 Cause of Death	Gender	<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
E14	Diabetes mellitus NOS	M	-	-	-	-	-	-	1	72	134	148	355
E46	Unspecified protein-energy malnutrition	F M	-	-	-	-	-	-	2	31	70 1	197 2	300
Ecc	Obssitu	F	-	-	-	-	-	-	-	-	-	8	8
E66	Obesity	M F	-	-	-	-	-	-	5 1	11 11	8 -	3	24 15
E78	Disorders of lipoprotein metabolism and other lipidemias	M F	-	-	-	-	-	-	- 1	8	8 4	11 16	27 24
E83	Disorders of mineral metabolism	М	-	-	-	-	-	-	-	1	1	-	2
E84	Cystic fibrosis	F M	-	-	-	-	-	-	3	1 -	1 -	1 -	4
	•	F	-	-	-	-	-	2	4	1	-	-	7
E85	Amyloidosis	M F	-	-	-	-	-	-	- 1	3 2	1 4	2 5	6 12
E86	Volume depletion	M F	-	-	-	-	-	-	-	-	1 2	15 18	16 20
E87	Other disorders of fluid, electrolyte	M	-	-	-	-	-	-	-	1	3	6	10
ERR	and acid-base balance Other metabolic disorders	F M	- 1	- 2	- 1	- 1	- 1	1 -	1	1	2	10 4	15 13
LOO		F	-	-	-	-	-	-	-	3	2	4	9
F03	Unspecified dementia	M F	-	-	-	-	-	-	-	5 8	54 63	298 596	357 667
F05	Delirium, not induced by alcohol and	М	-	-	-	-	-	-	-	-	3	17	20
F10	other psychoactive substances  Mental and behavioural disorders due	F M	-	-	-	-	-	-	3	- 44	3 19	13 4	16 70
	to use of alcohol	F	-	-	-	-	-	-	2	10	3	3	18
F19	Multiple drug misuse and misuse of other psychoactive substances	M F	-	-	-	-	-	-	2	7	-	-	7 2
F50	Eating disorders	M	-	-	-	-	-	-	-	-	1	1	2
G10	Huntington's disease	F M	-	-	-	-	-	-	2	2	2	5 2	9
040	Onical acceptance at a short of a short of	F	-	-	-	-	-	-	1	4	2	1	8
G12	Spinal muscular atrophy and related syndromes	M F	1	-	-	-	-	-	3 4	17 17	31 21	11 11	63 53
G20	Parkinson's disease	M F	-	-	-	-	-	-	-	3 4	56 22	112 65	171 91
G30	Alzheimer's disease	M	-	-	-	-	-	-	-	4	51	154	209
G31	Other degenerative diseases of	F M	-	-	-	-	-	-	-	4	61 16	402 16	467 36
	nervous system, NEC	F	-	-	-	-	-	-	-	6	8	3	17
G35	Multiple sclerosis	M F	-	-	-	-	-	-	2 1	8 22	6 12	5 10	21 45
G40	Epilepsy	М	-	-	-	-	-	1	5	5	-	2	13
G45	Transient cerebral ischemic attacks	F M	-	-	-	-	-	2	3	1 -	1	1 2	7
0.47	and related syndromes	F	-	-	-	-	-	-	-	-	-	3	3
G47	Sleep disorders	M F	-	-	-	-	1 -	-	2 -	1 1	1	-	4
G70	Other myoneural disorders	M F	-	-	-	-	-	-	-	1 -	1 1	4 1	6 2
G71	Primary disorders of muscles	M	-	-	-	-	-	-	3	4	-	-	7
G80	Infantile cerebral palsy	F M	-	-	- 1	-	-	-	1	2	2	2	7 5
		F	-	1	-	-	-	1	1	2	-	1	6
G91	Hydrocephalus (acquired)	M F	-	-	-	-	-	-	2 -	1 -	- 1	1 1	4
G93	Other disorders of brain	М	-	-	-	-	-	-	3	11	3	-	17
105	Rheumatic mitral valve diseases	F M	-	-	-	-	-	-	1 -	3 1	3 2	2	9
107	Phoumatic triguanid value disease-	F	-	-	-	-	-	-	-	1	4	8	13
107	Rheumatic tricuspid valve diseases	M F	-	-	-	-	-	-	1	-	1	2 1	2

#### DETAILED CAUSE OF DEATH BY GENDER AND AGE

British Columbia, 2009

							Age of D	eceased (	in Years)				
ICD-	10 Cause of Death	Gender	<1	1–4	5–9	10-14	15–19	20–24	25–44	45-64	65-79	+08	Total
108	Multiple valve diseases	M	-	-	-	-	-	-	-	2	3	9	14
109	Other rheumatic heart diseases	F M	-	-	-	-	-	-	-	1 -	4	11 1	16 2
103	Other meditalic heart diseases	F	-	-	-	-	-	-	-	-	1	2	3
I10	Essential (primary) hypertension	M F	-	-	-	-	-	-	1 -	5 3	12 14	23 42	41
l11	Hypertensive heart disease	M	-	-	-	-	-	-	-	9	13	18	59 40
140	The sate of the same of the same	F	-	-	-	-	-	-	-	3	5	63	71
l12	Hypertensive renal disease	M F	-	-	-	-	-	-	1 -	6 3	14 11	33 54	54 68
l13	Hypertensive heart and renal disease	M F	-	-	-	-	-	-	-	1	2	4	7
120	Angina pectoris	M	-	-	-	-	-	-	-	1	-	11	11
10.4		F	-	-	-	-	-	-	-	-	-	5	5
l21	Acute MI	M F	-	-	-	-	-	-	12 2	184 38	377 173	543 686	1,116 899
124	Other acute ischemic heart diseases	M	-	-	-	-	-	-	1	5	9	35	50
125	Chronic ischemic heart disease	F M	-	-	-	-	-	-	- 14	3 230	7 377	39 638	49 1,259
		F	-	-	-	-	-	-	4	50	161	766	981
126	Pulmonary embolism	M F	-	-	-	-	2	-	2 6	8 10	7 10	12 12	31 38
127	Other pulmonary heart diseases	М	-	-	-	-	-	-	1	2	8	4	15
I31	Other diseases of pericardium	F M	-	-	-	-	-	-	- 1	3	3 5	5 -	11 7
101	Other diseases of pericardium	F	-	-	-	-	-	-	-	1	-	1	2
133	Acute and subacute endocarditis	M F	-	-	-	-	-	-	4 2	5 1	-	4	13 3
134	Nonrheumatic mitral valve disorders	M	-	-	-	-	-	-	1	-	2	5	8
105	Nonebournatio partia valva dipardara	F	-	-	-	-	-	-	-	- 4	8	8	16
135	Nonrheumatic aortic valve disorders	M F	-	-	-	-	-	-	-	1	19 8	54 90	77 99
138	Endocarditis	M	-	-	-	-	-	-	1	4	6	16	27
142	Cardiomyopathy	F M	-	-	1	-	-	1	7	4 31	3 32	23 30	30 102
		F	-	-	-	1	-	-	1	9	16	38	65
144	Atrioventricular and left bundle-branch block	M F	-	-	-	-	-	-	-	- 1	-	4 2	4
145	Other conduction disorders	М	-	-	-	-	-	-	-	1	1	4	6
146	Cardiac arrest	F M	-	-	-	-	-	-	1 2	1 7	1	4 8	7 27
		F	-	-	-	-	-	-	-	-	4	20	24
147	Paroxysmal tachycardia	M F	-	-	-	-	-	-	-	1 -	1 -	3	5
148	Atrial fibrillation and flutter	М	-	-	-	-	-	-	-	5	22	82	109
149	Other cardiac arrhythmias	F M	-	-	-	-	-	-	2	3 11	26 13	188 15	217 41
175	Other cardiac armytimias	F	-	-	-	-	-	-	4	5	9	36	54
150	Heart failure	M F	-	-	-	-	-	-	-	6 6	38 29	221 391	265 426
l51	Complications and ill-defined	M	-	-	-	-	2	-	5	14	8	12	41
IEO	descriptions of heart disease	F	-	1	-	-	-	-	- 2	1	10	29	41
160	Subarachnoid hemorrhage	M F	-	-	-	-	-	-	3 5	15 19	10 23	6 14	34 61
l61	Intracerebral hemorrhage	М	-	-	-	-	-	-	5	21	36	47	109
162	Other nontraumatic intracranial	F M	-	-	-	-	-	-	2	9 5	34 19	56 31	99 57
	hemorrhage	F	-	-	-	-	-	-	-	6	18	31	55
163	Cerebral infarction	M F	-	-	-	-	-	-	1 -	6 8	10 13	23 42	40 63
164	CVA, NOS	М	-	-	-	-	-	-	2	33	150	377	562
		F	-	-	-	-	-	-	-	13	100	720	833

#### DETAILED CAUSE OF DEATH BY GENDER AND AGE

British Columbia, 2009

								eceased (					_
ICD-	10 Cause of Death	Gender	<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	+08	Total
167	Other cerebrovascular diseases	M	-	-	-	-	-	-	1	4 5	20 10	77 134	102 150
169	Sequelae of cerebrovascular disease	M	-	-	-	-	-	-	-	2	17	38	57
170	Atherosclerosis	F M	-	-	-	-	-	-	-	2	9	68 13	77 26
170	Allieloscielosis	F	-	-	-	-	-	-	-	1	3	38	42
l71	Aortic aneurysm and dissection	M F	-	-	-	-	-	1	4	19 6	49 21	48 37	121 64
172	Other aneurysm	М	-	-	-	-	-	-	-	1	3	4	8
173	Other peripheral vascular diseases	F M	-	-	-	-	-	-	-	- 1	1 15	23	1 39
		F	-	-	-	-	-	-	-	1	6	35	42
174	Arterial embolism and thrombosis	M F	-	-	-	-	-	-	-	2 1	-	2 3	4
177	Other disorders of arteries and arterioles	M F	-	-	-	-	-	-	-	- 1	3 2	1 5	4 8
180	Phlebitis and thrombophlebitis	М	-	-	-	-	-	-	1	6	2	5	14
199	Other and unspecified disorders of	F M	-	-	-	-	-	-	2	2	2	8 1	14 2
133	circulatory system	F	-	-	-	-	-	-	-	-	1	2	3
J06	Acute upper respiratory infections of multiple and unspecified sites	M F	-	-	-	-	-	-	-	-	-	1 4	1 4
J10	Influenza due to identified	М	-	-	2	-	-	-	1	9	2	3	17
J11	influenza virus Influenza, virus not identified	F M	- 1	1 -	-	-	-	-	2	10 2	4 2	3	20 10
011		F	-	-	-	-	-	-	-	5	2	15	22
J12	Viral pneumonia, NEC	M F	1 -	-	-	-	-	-	-	3 1	1 -	1 1	6 2
J15	Bacterial pneumonia, NEC	М	-	-	-	-	-	-	1	6	4	2	13
J18	Pneumonia, organism unspecified	F M	-	1 -	-	-	-	2	3 8	3 36	1 108	2 389	10 543
		F	-	-	-	-	-	-	5	48	78	526	657
J22	Unspecified acute lower respiratory infection	M F	-	-	-	-	-	-	-	-	2	1 2	1
J40	Bronchitis, not specified as acute	M	-	-	-	-	-	-	-	-	-	3	3
J43	or chronic Emphysema	F M	-	-	-	-	-	-	-	1 9	26	2 17	3 52
		F	1	-	-	-	-	-	-	4	16	24	45
J44	Other chronic obstructive pulmonary disease	M F	-	-	-	-	-	-	3	49 38	231 202	377 406	657 649
J45	Asthma	M	-	-	-	-	-	-	1	5	4	6	16
J47	Bronchiectasis	F M	-	-	-	-	-	-	1 -	3 1	6 4	20 4	30
104		F	-	-	-	-	-	-	-	1	4	17	22
J61	Pneumoconiosis due to asbestos and other mineral fibres	M F	-	-	-	-	-	-	-	-	7 -	6 -	13
J69	Aspiration pneumonia due to solids	M F	-	-	1	-	1	-	3	13	28	88	134
J80	and liquids Adult respiratory distress syndrome	М	-	-	-	-	1	-	-	8 -	17 -	99	124 1
J84	Other interstitial pulmonary diseases	F M	-	-	-	-	-	-	- 1	2 18	1 59	1 66	4 144
001		F	-	-	-	-	-	-	1	14	27	29	71
J86	Pyothorax	M F	-	-	-	-	-	-	-	3 -	4	2 2	9
J90	Pleural effusion, NEC	M F	-	-	-	-	-	-	-	1 -	1 -	8	10
J96	Respiratory failure, NEC	М	-	-	-	-	-	-	-	-	2	2	4
J98	Other respiratory disorders	F M	-	-	-	-	-	-	-	1	- 4	4 9	5 14
300	on.o. roophatory algoritors	F	-	-	-	-	-	-	-	1	2	18	21
K21	Gastro-esophageal reflux disease	M	-	-	-	-	-	-	-	1	1	10	12

#### DETAILED CAUSE OF DEATH BY GENDER AND AGE

British Columbia, 2009

							Age of D	eceased (	in Vears)				
ICD-	10 Cause of Death	Gender	<1	1–4	5–9	10–14	15–19	20–24	25–44	45-64	65-79	80+	Total
K22	Other diseases of esophagus	M	-	-	-	-	-	-	-	6	1	11	18
K25	Gastric ulcer	F M	-	-	-	-	-	-	-	- 2	- 1	7	7 5
1120	Castric dicer	F	-	-	-	-	-	-	-	3	1	5	9
K26	Duodenal ulcer	M F	-	-	-	-	-	-	-	5 4	2	10 7	17 13
K27	Peptic ulcer	M	-	-	-	-	-	-	-	2	-	-	2
K20	Gastritis and duodenitis	F M	-	-	-	-	-	-	-	- 1	2	7	9
K29	Gastinis and duodenitis	F	-	-	-	-	-	-	-	2	4	1	7
K31	Other diseases of stomach	M F	-	-	-	-	-	-	-	1	1 2	3	2 5
K40	and duodenum Inguinal hernia	M	-	-	-	-	-	-	-	1	-	6	7
1/40	Mantael bassis	F	-	-	-	-	-	-	-	-	-	-	-
K43	Ventral hernia	M F	-	-	-	-	-	-	1 -	-	1 -	2 1	4 1
K44	Diaphragmatic hernia	M	-	-	-	-	-	-	-	-	-	2	2
K46	Unspecified abdominal hernia	F M	-	-	-	-	-	-	-	- 1	1 2	6 5	7 8
	·	F	-	-	-	-	-	-	-	-	3	2	5
K50	Crohn's disease	M F	-	-	-	-	-	-	1 -	1 1	6	2 1	4 8
K52	Other noninfective gastroenteritis	М	-	-	-	-	-	-	-	-	2	3	5
K55	and colitis  Vascular disorders of intestine	F M	-	-	-	-	-	-	- 1	1 5	2 18	7 27	10 51
1100	vascular disorders of intestine	F	-	-	-	-	-	-	-	7	29	49	85
K56	Paralytic ileus and intestinal obstruction without hernia	M F	-	-	-	-	-	-	- 1	4 5	10 14	34 63	48 83
K57	Diverticular disease of intestine	M	-	-	-	-	-	-	-	2	3	13	18
K59	Other functional intestinal disorders	F M	-	-	-	-	-	- 1	-	-	6	24 3	30 4
KOS	Other functional intestinal disorders	F	-	-	-	-	-	-	-	1	-	4	5
K63	Other diseases of intestine	M	-	-	-	-	-	-	-	-	4	7	11
K65	Peritonitis	F M	-	-	-	-	-	-	-	2	5 3	12 1	19 7
1/00		F	-	-	-	-	-	-	-	1	3	2	6
K66	Other disorders of peritoneum	M F	-	-	-	-	-	-	-	2 1	2	1 1	5 2
K70	Alcoholic liver disease	M	-	-	-	-	-	-	8	99	55	9	171
K72	Hepatic failure	F M	-	-	-	-	-	-	6 1	51 8	16 6	7	80 16
		F	-	-	-	-	-	-	-	4	3	7	14
K74	Fibrosis and cirrhosis of liver	M F	-	-	-	-	-	-	2	17 13	13 10	10 15	42 38
K75	Other inflammatory liver diseases	М	-	-	-	-	-	-	-	1	3	-	4
K76	Other diseases of liver	F M	-	-	-	-	-	-	-	2	5 6	4	11 8
		F	-	-	-	-	-	-	4	3	6	1	14
K80	Cholelithiasis	M F	-	-	-	-	-	-	-	1	3	- 10	4 13
K81	Cholecystitis	M	-	-	-	-	-	-	-	1	3	6	10
K00	Other diseases of relibledder	F	-	-	-	-	-	-	-	3	4	14	21
N82	Other diseases of gallbladder	M F	-	-	-	-	-	-	-	3 2	2	2 -	5 4
K83	Other diseases of biliary tract	М	-	-	-	-	-	-	-	1	4	5	10
K85	Acute pancreatitis	F M	-	-	-	-	-	-	2	1 7	5 12	7	13 24
		F	-	-	-	-	-	-	1	2	6	9	18
K86	Other diseases of pancreas	M F	-	-	-	-	-	-	1 -	1 2	3	1 -	6 2
K92	Other diseases of digestive system	М	-	-	-	-	-	-	5	15	24	52	96
		F	-	-	-	-	-	-	-	9	20	68	97

#### DETAILED CAUSE OF DEATH BY GENDER AND AGE

British Columbia, 2009

		1					A 4 D		: \/\				1
ICD-	10 Cause of Death	Gender	<1	1–4	5–9	10–14	Age of D 15–19	eceased ( 20–24	1n years) 25–44	45–64	65–79	80+	Total
100-	To Gause of Death	dender	\1	1-4	3-9	10-14	15-19	20-24	25-44	45-04	05-79	00+	Total
L03	Cellulitis	M	-	-	-	-	-	-	-	1	4	5	10
1.00	Other level infections of alia and	F	-	-	-	-	-	-	-	2	1	11	14
L08	Other local infections of skin and subcutaneous tissue	M F	-	-	-	-	-	-	-	-	1 1	1 2	2
L89	Decubitus ulcer	M	-	-	-	-		-	-	-	1	4	5
LOS	Decapitas aloci	F	-	_	_	_	_	-	_	1	3	9	13
L97	Ulcer of lower limb, NEC	М	-	-	-	-	-	-	-	-	-	1	1
		F	-	-	-	-	-	-	-	-	2	2	4
L98	Other disorders of skin and	M	-	-	-	-	-	-	1	-	1	1	3
	subcutaneous tissue, NEC	F	-	-	-	-	-	-	-	-	1	2	3
M00	Pyogenic arthritis	M	-	-	-	-	-	-	-	1	1	2	4
N 405	Community of the state of the s	F	-	-	-	-	-	-	-	2	-	4	6
IVIU5	Seropositive rheumatoid arthritis	M	-	-	-	-	-	-	-	1	1 2	-	2
MOS	Other rheumatoid arthritis	M	-	-	-	-	-	-	-	-	4	1 6	10
IVIOO	Cirici medinatola artimia	F	_	_	_	_	_	_	_	6	9	12	27
M13	Other arthritis	M	-	-	-	-	-	-	-	-	-	2	2
		F	-	-	-	-	-	-	-	-	-	4	4
M19	Other arthrosis	М	-	-	-	-	-	-	-	-	1	3	4
		F	-	-	-	-	-	-	-	-	1	9	10
M31	Other necrotizing vasculopathies	M	-	-	-	-	-	-	1	1	2	-	4
		F	-	-	-	-	-	-	-	1	1	6	8
M32	Systemic lupus erythematosus	M	-	-	-	-	-	-	-	-	2	-	2
N 40 4	0	F	-	-	-	-	1	-	1	1	4	1	8
IVI34	Systemic sclerosis	M	-	-	-	-	-	-	-	1 6	1 4	1 5	3
Meo	Myositis	M	-	-	-	-	-	-	-	-	4	-	15
IVIOO	Wyosius	F	_	-	-	-	-	_	-	1	2	2	5
M62	Other disorders of muscle	M	-	-	-	-	-	-	-	1	1	1	3
		F	-	-	-	-	-	-	-	-	2	-	2
M80	Osteoporosis with pathological fracture	М	-	-	-	-	-	-	-	-	-	5	5
		F	-	-	-	-	-	-	-	-	1	9	10
M81	Osteoporosis without pathological	M	-	-	-	-	-	-	-	-	-	-	-
	fracture	F	-	-	-	-	-	-	-	-	-	8	8
M86	Osteomyelitis	M	-	-	-	-	-	-	-	5	-	-	5
NIO2	Chronic pophritic syndrome	F	-	-	-	-	-	-	-	-	3	1	4
NU3	Chronic nephritic syndrome	M	-	-	-	-	-	-	-	1	3 2	12 16	15 19
NO5	Unspecified nephritic syndrome	M				-			1	-	-	2	3
1403	onspecified neprintic syndrome	F	_	_	_	_	_	_	-	1	2	-	3
N12	Tubulo-interstitial nephritis, not	M	-	-	-	-	-	-	-	-	1	5	6
	specified as acute or chronic	F	-	-	-	-	-	-	-	-	2	8	10
N13	Obstructive and reflux uropathy	М	-	-	-	-	-	-	-	-	4	4	8
		F	-	-	-	-	-	-	-	1	1	2	4
N17	Acute renal failure	M	-	-	-	-	-	-	-	4	7	15	26
		F	-	-	-	-	-	-	-	1	4	14	19
N18	Chronic renal failure	M	-	-	-	-	-	-	-	6	20	62	88
NIAO	Unenceified repol foilure	F	-	-	-	-	-	-	1	-	31 14	53	85 63
1119	Unspecified renal failure	M F	_	-		-	-	-	-	6 2	14 14	42 40	63 56
NI30	Other disorders of urinary system	M				-		1		2	16	79	98
INOS	Other disorders of diffiary system	F	-	-	-	-	-	-	-	5	23	135	163
N40	Prostatic hypertrophy	M	-	_	_	_	-	_	_	1	2	6	9
		F	-	-		-	-	-	-	-	-	-	-
P01	Fetus & newborn affected by maternal	М	10	-	-	-	-	-	-	-	-	-	10
	complications of pregnancy	F	4	-	-	-	-	-	-	-	-	-	4
P02	Fetus and newborn affected by	М	7	-	-	-	-	-	-	-	-	-	7
	compl. of placenta, cord & membranes	F	11	-	-	-	-	-	-	-	-	-	11
P07	Disorders related to short gestation &	М	10	-	-	-	-	-	-	-	-	-	10
	low birth weight, NEC	F	12	-	-	-	-	-	-	-	-	-	12
P91		M	2	-	-	-	-	-	-	-	-	-	2
	of newborn	F	3	-	-	-	-	-	-	-	-	-	3

#### DETAILED CAUSE OF DEATH BY GENDER AND AGE

British Columbia, 2009

							Age of D	eceased (	in Years)				
ICD-	10 Cause of Death	Gender	<1	1–4	5–9	10-14	15–19	20–24	25–44	45-64	65-79	80+	Total
P96	Other conditions originating in the	M	4	-	-	-	-	-	-	-	-	-	4
	perinatal period	F	6	-	-	-	-	-	-	-	-	-	6
Q20	Congenital malformations of cardiac	M	1	-	-	-	-	-	-	-	-	-	1
024	chambers and connections	F	3	-	-	-	1	-	-	-	-	-	4
Q21	Congenital malformations of cardiac septa	M F	1		-	-	-	-	3 1	2	-	1 1	7
Q24	Other congenital malformations of heart		2	-	_	-	-	1	1	1	-	-	5
		F	-	-	-	-	-	-	-	-	-	-	-
Q28	Other congenital malformations of	M	-	-	-	-	-	-	-	1	2	-	3
	circulatory system	F	-	-	-	-	-	-	-	2	-	-	2
Q61	Cystic kidney disease	M	1	-	-	-	-	-	2	2	2	1	8
00=		F	1	-	-	-	-	-	-	-	1	1	3
Q87	Other specified malformation	M	-	1	-	-	-	1	1	-	2	-	5
090	syndromes affecting multiple systems  Down's syndrome	F M	1	-	-	-	-	-	-	1	-	-	2
QSU	Down's syndionie	F	1	-	-	-	-	-	-	4	-	-	5
R09	Other symptoms and signs involving	M	-	-	-	-	-	-	-	-	1	2	3
	the circulatory & respiratory systems	F	-	-	-	-	-	-	-	-	-	5	5
R53	Malaise and fatigue	М	-	-	-	-	-	-	-	-	-	3	3
		F	-	-	-	-	-	-	-	-	-	5	5
R54	Senility	M	-	-	-	-	-	-	-	-	-	15	15
		F	-	-	-	-	-	-	-	-	1	22	23
R68	Other general symptoms and signs	M	-	-	-	-	-	-	-	-	-	1	1
DOE.	Sudden infent deeth sundreme (SIDS) 1	F M	6	-	-	-	-	-	-	-	1	6	7 6
K95	Sudden infant death syndrome (SIDS) <sup>1</sup>	F	4	-	-	-	-	-	-	-	-	-	4
R99	Other ill-defined and unspecified	M	9	4	2	2	15	29	128	202	81	50	522
	causes of mortality	F	9	2	-	3	4	11	55	99	38	64	285
V03	Pedestrian injured in collision with car,	M	-	-	-	-	-	1	1	1	2	4	9
	pick-up truck or van	F	-	1	-	-	1	-	1	1	3	4	11
V04	Pedestrian injured in collision with	M	-	-	-	-	1	-	1	-	2	1	5
	heavy transport vehicle or bus	F	-	-	-	1	-	-	-	-	-	1	2
V13	Pedal cyclist injured in collision with	M	-	1	1	1	-	-	1	1	-	-	5
1/00	car, pick-up truck or van	F	-	-	-	-	-	-	-	1	-	-	1
V23	Motorcycle rider injured in collision with car, pick-up truck or van	M F	-	-	-	-	-	2	5	3 1	-	-	10 1
V/27	Motorcycle rider injured in collision	M	-	-		-	1		3	1	1		6
·	with fixed or stationary object	F	_	_	_	_	-	_	-	1	-	_	1
V28	Motorcycle rider injured in noncollision	M	-	-	-	-	-	-	2	4	-	-	6
	transport accident	F	-	-	-	-	-	-	-	-	-	-	-
V43	Car occupant injured in collision with	M	-	-	-	2	2	-	5	6	3	2	20
	car, pick-up truck or van	F	-	-	-	-	1	2	7	2	4	2	18
V44	Car occupant injured in collision with	M	-	-	-	-	1	2	2	3	2	-	10
1/47	heavy transport vehicle or bus	F	-	-	-	-	1	1	1	1	3	1	8
V47	Car occupant injured in collision with fixed or stationary object	M F	-	-	-	-	2	5 2	2 1	4 3	1 1	1 1	15 8
V/48	Car occupant injured in noncollision	M	-	-	-	-	6	2	10	8	1	4	31
V -10	transport	F	_	_	_	-	-	3	1	-	2	1	7
V53	Occ. of pick-up truck or van injured in	М	-	-	-	-	-	-	3	1	-	1	5
	collision with car, pick-up truck or van	F	-	-	-	-	-	-	2	-	1	-	3
V54	Occ. of pick-up truck or van injured in	M	-	-	-	-	-	-	2	2	-	-	4
	coll. with heavy transport vehicle or bus	F	-	-	-	-	-	-	1	-	-	-	1
V58	Occ. of pick-up truck or van injured in	M	-	-	-	-	-	-	6	8	-	-	14
1/00	noncollision transport accident	F	-	-	-	-	-	-	2	-	-	-	2
V86	Occupant of special A.T./other m.v. for	M F	-	-	-	-	1	3	1	8	1	1	15
\/05	off-road use, injured in transport acc.  Accident to powered aircraft causing	M	-	-	-	-	-	-	1	1	-	1	1
* 55	injury to occupant	F	1	_		_	-	_	1	1	-	-	3
W00	Fall on same level involving ice and	M	-	-	-	-	-	-	-	3	-	4	7
	snow	F	-	-	-	-	_	-	1	-	-	-	1
W01	Fall on same level from slipping,	М	-	-	-	-	-	-	-	-	1	6	7
	tripping and stumbling	F	-	-	-	-	-	-	-	-	-	13	13

#### DETAILED CAUSE OF DEATH BY GENDER AND AGE

British Columbia, 2009

						Age of D	acascad (	in Vaare\				
ICD-10 Cause of Death	Gender	<1	1–4	5–9	10-14	15–19	eceased ( 20–24	25–44	45-64	65–79	80+	- Total
W05 Fall involving wheelchair	М	-	-	-	-	-	-	-	1	2	3	6
W06 Fall involving bed	F M	-	-	-	-	-	-	-	- 1	1	3 4	4
vvoo i ali irivoivirig bed	F	-	-	-	-	-	-	-	-	2	10	12
W07 Fall involving chair	M	-	-	-	-	-	-	-	-	3 2	-	3
W08 Fall involving other furniture	M	-	-	-	-	-	-	1	-	1	4	6
ū	F	-	-	-	-	-	-	-	1	-	2	3
W10 Fall on and from stairs and steps	M	-		-	-	-	-	1 -	6 2	7 6	8 1	22 9
W11 Fall on and from ladder	М	-	-	-	-	-	-	1	1	3	5	10
W17 Other fall from one level to anoth	F er M	-	-	-	-	-	-	- 1	1	2	- 1	1 5
With Other fall from one level to anoth	F	-	-	-	-	-	-	1	1	-	2	4
W18 Other fall on same level	M	-	-	-	1	-	-	-	-	2	10	13
W19 Unspecified fall	F M	-	-	-	-	-	2	4	- 11	6 21	13 73	19 111
	F	-	-	-	-	-	-	-	7	19	114	140
W20 Struck by thrown, projected or falling object	M	-		-	1	-	1	1	2	2 1	-	5 3
W69 Drowning and submersion while	M	-	-	-	-	2	1	1	4	1	-	9
in natural water	F	-	-	-	-	-	-	-	-	-	-	-
W70 Drowning and submersion follow fall into natural water	ing M F	-	-	1 -	-	-	1 -	1 1	5 1	1 -	-	9
W80 Inhalation & ingest. of other object		-	-	-	-	-	-	-	5	2	5	12
<ul><li>causing obstruction of respiratory</li><li>X00 Exposure to uncontrolled fire in</li></ul>	rtract F	-	-	-	-	- 1	-	1 -	- 7	3 1	4	8 10
building or structure	F	-	-	1	-	-	1	4	3	2	1	12
X31 Exposure to excessive natural co		-	-	-	-	1	1	-	6	1	-	9
X41 Acc. pois. by & exp. to antiepilep	tic, M	-	-	-	-	- 1	1	6	1 7	1	-	2 16
sedhypn., antipark. & psyc. drug		-	-	-	-	-	1	3	7	2	-	13
X42 Acc. poisoning by & exp. to narco		-	-	-	-	-	4	51	45	3	-	103
psychodysleptics [hallucin.], NEC X44 Acc. poisoning by & exp. to other		-	-	-	-	1	4 2	16 14	11 23	3	1	33 44
unspec. drugs, medic. and biolo.	sub. F	-	-	-	-	1	1	10	20	1	-	33
X45 Accidental poisoning by and experto alcohol	osure M	-		-	-	1	-	6 4	8 1	- 1	-	15 6
X59 Exposure to unspecified factor	M	-	-	-	-	-	-	-	2	6	6	14
V04 0 111 1 11 11 11 11	F	-	-	-	-	-	-	-	-	-	8	8
X61 Suicide by antiepileptic, sed-hyproantipark, and psyc. drugs, NEC	no, M F	-	-	-	-	-	-	3 3	2 9	1 2	2 1	8 15
X62 Suicide by narcotics and psyc.	М	-	-	-	-	-	-	1	3	-	1	5
[hallucinogens], NEC  X64 Suicide by other & unspecified di	rugs, M	-	-	-	-	-	2	1 9	1 16	2	- 1	30
medicaments & biological substa	-	-	-	-	-	-	2	5	7	2	1	17
X67 Suicide by other gases and vapo	<b>I</b>	-	-	-	-	-	-	8	10	7	-	25
X70 Suicide by hanging, strangulation	F M	-	-	-	-	7	11	76	2 60	9	2	2 165
and suffocation	F	-	-	-	-	2	1	22	7	1	2	35
X71 Suicide by drowning and submer	sion M F	-	-	-	-	-	2	2	1 2	1 -	1 -	7 2
X72 Suicide by handgun discharge	M	-	-	-	-	-	-	1	3	3	2	9
	F	-	-	-	-	-	-	1	-	-	-	1
X73 Suicide by rifle, shotgun and larg firearm discharge	er M F	-	-	-	-	2	1 -	4	8 -	5	2	22
X74 Suicide by other and unspecified	M	-	-	-	-	3	1	4	12	6	-	26
firearm discharge	F	-	-	-	-	-	-	-	3	1	-	4
X78 Suicide by sharp object	M F	-	-	-	-	-	1	4	8 1	2	-	12 4
X80 Suicide by jumping from a high p	lace M	-	-	-	-	1	2	6	10	4	1	24
	F	-	-	-	-	-	-	6	1	1	1	9

#### DETAILED CAUSE OF DEATH BY GENDER AND AGE

British Columbia, 2009

								eceased (					_
ICD.	-10 Cause of Death	Gender	<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	<del>80+</del>	Total
X81	Suicide by jumping or lying before moving object	M F	-	-	-	-	1 -	-	2 1	1 -	1 -	-	5 1
X83	Suicide by other specified means	M F	-	-	-	-	-	-	-	3	1 -	2	6
X95	Assault by other and unspecified firearm discharge	M F	-	- -	-	-	3 -	7 1	18 3	3 1	1 -	-	32 5
X99	Assault by sharp object	M F	-	-	-	-	1 -	3 1	6 2	- 1	1 1	-	11 5
Y09	Assault by unspecified means	M F	1 -	-	-	-	- -	1 -	2 1	3 -	-	-	7 1
Y11	Pois. by & expo. to antiepilep., sedative- hypnotic, antipark. & psyc. drugs, NEC	M F	-	-	-	-	-	-	2 1	3	-	-	2 4
Y12	Pois. by and expo. to narcotics & psyc. [hallucinogens], NEC, undeter. intent	M F	-	-	-	-	- -	1 -	2	2 -	-	-	5
Y83	Surg. oper & othr. surg. proc. caus. abno. reac. or later compl., w/o misadventure	M F	-	-	-	-	-	-	-	1 -	1 3	5 6	7 9
Y85	Sequelae of transport accidents	M F	-	- -	-	- -	1 -	- -	2	4	2 1	-	9
Y86	Sequelae of other accidents	M F	-	-	-	-	-	1 -	1 -	3 -	-	1 1	6 1
Y87	Sequelae of intent. self-harm, assault and events of undetermined intent	M F	-	- -	-	- -	-	-	1 -	3 -	2	-	6
	All Causes of Death	M F	70 81	9 16	17 2	11 10	77 20	113 52	715 386	,	4,943 3,465	6,861 9,181	15,991 15,236

Note: The output from ICD-10 mortality coding and underlying cause of death selection was modified in British Columbia to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above. Non-residents and unknown gender are excluded.

<sup>&</sup>lt;sup>1</sup>The BC Coroners' Service classifies SIDS deaths as "SUDI" - please see glossary (under "SIDS") for explanation.

# Appendix Three



Selected Health Status Indicators by Local Health Area, Health Service Delivery Area and Health Authority

British Columbia, 2005-2009

### Preamble to Appendix 3

This appendix consists of six tables:

Table A Summary Statistics by Local Health Area

Table B Mortality Statistics by Local Health Area

Table C Summary Statistics by Health Service Delivery Area

Table D Mortality Statistics by Health Service Delivery Area

Table E Summary Statistics by Health Authority

Table F Mortality Statistics by Health Authority

Assignment of events to geographic areas was based on the usual residence of the mother for live births and stillbirths, and the usual residence of the decedent for deaths.

Tables A, C, and E provide population estimates for the current year, and counts and rates for the five-year period ending with the current year for live births, stillbirths, deaths, infant deaths, low birth weight live births, cesarean live birth deliveries, pre-term live births, live births to teenage mothers, and live births to elderly gravida (mothers aged 35 or older).

Tables B, D, and F provide the SMR with statistical significance, number of deaths, trends in ASMR based on three-year moving averages from 1986 to the current year (in the column labelled TR), PYLLI with statistical significance, and the number of deaths under age 75. ICD-10 codes for the causes of death in these tables are listed below.

Category	Cause of Death	ICD-10 Codes
01	All causes of death	A00-Y89
02	Malignant neoplasms	C00-C97
03	Malignant neoplasm of lung	C34
04	Endocrine nutritional and metabolic diseases	E00-E89
05	Diabetes mellitus	E10-E14
06	Diseases of the circulatory system	I00-I99
07	Ischemic heart diseases	I20-I25
08	Cerebrovascular diseases	I60-I69
09	Diseases of arteries, arterioles and capillaries	I70-I78
10	Diseases of the respiratory system	J00-J98
11	Influenza and pneumonia	J10-J18
12	Chronic Pulmonary Disease	J40-J44
13	Diseases of the digestive system	K00-K92
14	Motor vehicle accidents	V02-V04, V09, V12-V14, V190-
		V196, V20-V79, V803-V805,
		V820-V821, V823-V890, V892,
		V899, Y850
15	Unintentional falls	W00-W19
16	Suicide	X60-X84, Y870
17	Alcohol-related deaths	see Glossary
18	Medically treatable diseases	see Glossary
19	Drug-induced deaths	see Glossary

Note: Some cause of death categories are different from those used previously, so readers should avoid comparisons with tables in earlier publications.

		2009	Liv	ve Birth	_ _ Stil	lbirth	_ [	Death	Infant	Death
	Local Health Area	Population		Rate	Total	Rate <sup>2</sup>	Total	Rate	Total	Rate <sup>1</sup>
001 002	Fernie Cranbrook	14,893 25,753	715 1,224	9.85 9.80	10	4.18 8.10	433 1,054	5.97 8.44	' 3 5	4.20 4.08
002	Kimberley	8,585	370	9.04	-	-	411	10.04	1	2.70
004	Windermere	10,722	434	8.82	5	11.39	253	5.14	1	2.30
005 006	Creston Kootenay Lake	12,669 3,848	595 137	9.72 7.33	1	7.25	747 161	12.20 8.62	-	-
007	Nelson	25,120	1,168	9.61	9	7.65	935	7.69	-	-
009	Castlegar	13,445	456	7.03	4	8.70	623	9.61	1	2.19
010 011	Arrow Lakes Trail	4,781 19,378	156 800	6.63 8.39	7	8.67	231 1,093	9.82 11.46	2	2.50
012	Grand Forks	9,036	309	6.98	2	6.43	515	11.63	4	12.94
013 014	Kettle Valley Southern Okanagan	3,697 19,815	110 632	6.14 6.61	1 7	9.01 10.95	126 1,300	7.04 13.60	- 1	1.58
015	Penticton	41,648	1,637	8.04	10	6.07	2,662	13.07	10	6.11
016	Keremeos	5,242	189	7.51	1	5.26	344	13.67	-	-
017 018	Princeton Golden	5,059 7,374	134 348	5.41 9.76	1	7.41 2.87	296 208	11.94 5.83	2	5.75
019	Revelstoke	7,928	382	9.66	2	5.21	259	6.55	5	13.09
020 021	Salmon Arm Armstrong-Spallumcheen	34,914 9,679	1,318 420	7.88 8.90	9 2	6.78 4.74	1,632 392	9.76 8.31	9	6.83
022	Vernon	65,877	2,773	8.74	22	7.87	3,107	9.79	15	5.41
023	Central Okanagan	184,279	7,745	8.92	58	7.43	7,411	8.53	29	3.74
024 025	Kamloops 100 Mile House	110,846 14,756	4,979 509	9.28 7.04	30 4	5.99 7.80	4,129 649	7.70 8.98	17 1	3.41 1.96
026	North Thompson	4,309	227	10.62	-	-	193	9.03	1	4.41
027 028	Cariboo-Chilcotin Quesnel	26,730	1,448	10.97 10.80	17 14	11.60 11.07	922 881	6.98	11 6	7.60 4.80
028	Lillooet	23,584 4,425	1,251 237	10.80	2	8.37	211	7.61 9.73	1	4.00
030	South Cariboo	7,413	306	8.52	5	16.08	357	9.94	3	9.80
031 032	Merritt Hope	11,718 8,205	609 366	10.62 9.06	3 4	4.90 10.81	550 527	9.59 13.04	2	5.46
033	Chilliwack	84,624	4,970	12.25	37	7.39	3,530	8.70	16	3.22
034	Abbotsford	135,956	8,472	12.81	78	9.12	4,626	7.00	32	3.78
035 037	Langley Delta	129,390 100,635	6,714 4,353	10.76 8.68	36 33	5.33 7.52	4,460 3,131	7.15 6.24	21 12	3.13 2.76
038	Richmond	193,255	8,391	9.00	70	8.27	4,479	4.80	27	3.22
040 041	New Westminster Burnaby	65,016 222,802	3,383 11,167	10.88 10.39	28 77	8.21 6.85	2,544 6,889	8.18 6.41	8 30	2.36 2.69
042	Maple Ridge	93,271	4,694	10.46	37	7.82	2,839	6.33	13	2.77
043	Coquitlam	215,558	10,489	10.03	81	7.66	4,758	4.55	36	3.43
044 045	North Vancouver West Vancouver-Bowen Is.	138,055 51,396	6,023 1,390	8.88 5.48	51 7	8.40 5.01	4,143 2,351	6.11 9.27	14 3	2.32 2.16
046	Sunshine Coast	29,551	1,050	7.36	5	4.74	1,349	9.46	5	4.76
047 048	Powell River Howe Sound	19,828 34,784	682 2,233	7.00 13.54	4 23	5.83 10.20	996 607	10.22 3.68	3 13	4.40 5.82
049	Bella Coola Valley	2,893	2,233	15.10	23 5	22.12	103	7.04	3	13.57
050	Queen Charlotte	4,652	225	9.44	1	4.42	168	7.05	4	17.78
051 052	Snow Country Prince Rupert	490 14.242	27 864	9.98 11.95	4	4.61	16 472	5.91 6.53	1 2	37.04 2.31
053	Upper Skeena	5,408	329	12.17	3	9.04	128	4.73	2	6.08
054 055	Smithers Burns Lake	15,970	1,085 446	13.57 11.40	11 3	10.04 6.68	451 280	5.64 7.16	6 3	5.53 6.73
056	Nechako	7,880 15,010	1,091	14.46	8	7.28	536	7.10	6	5.50
057	Prince George	96,107	5,525	11.56	46	8.26	2,769	5.80	18	3.26
059 060	Peace River South Peace River North	26,976 34,813	1,605 2,895	12.13 17.35	8 24	4.96 8.22	828 732	6.26 4.39	6 13	3.74 4.49
061	Greater Victoria	221,553	8,973	8.21	75	8.29	10,785	9.87	42	4.68
062	Sooke Saanich	66,718	3,430	10.89	12	3.49	1,711	5.43	12 14	3.50
063 064	Gulf Islands	63,599 15,708	1,949 438	6.17 5.79	14 3	7.13 6.80	3,246 682	10.28 9.01	14	7.18 2.28
065	Cowichan	56,900	2,659	9.59	32	11.89	2,294	8.27	14	5.27
066 067	Lake Cowichan Ladysmith	6,423 18,366	219 752	7.05 8.44	6	7.92	212 1,108	6.82 12.43	2 6	9.13 7.98
068	Nanaimo	102,889	4,414	8.85	32	7.20	4,494	9.01	19	4.30
069	Qualicum	45,356	1,242	5.66	8	6.40	2,564	11.69	3	2.42
070 071	Alberni Courtenay	31,542 64,084	1,681 2,432	10.77 7.87	25 21	14.65 8.56	1,424 2,565	9.13 8.30	18 6	10.71 2.47
072	Campbell River	41,580	1,931	9.51	13	6.69	1,531	7.54	11	5.70
075 076	Mission Agassiz-Harrison	42,217 8,991	2,279 484	11.11 11.03	21 2	9.13 4.12	1,430 337	6.97 7.68	8 1	3.51 2.07
078	Summerland	11,706	366	6.37	1	2.72	683	11.88	1	2.73
078	Enderby	7,640	377	10.10	3	7.89	393	10.53	-	-
080 081	Kitimat Fort Nelson	10,297 6,116	474 497	9.10 15.83	4 2	8.37 4.01	306 106	5.87 3.38	- 1	2.01
083	Central Coast	1,467	149	20.01	1	6.67	62	8.33	2	13.42
084	Vancouver Island West Vancouver Island North	2,364	113 766	9.73 12.47	-	7 77	67 415	5.77 6.76	1	8.85
085 087	Stikine	12,287 1,011	31	6.00	6	7.77 -	22	6.76 4.26	2	2.61
880	Terrace	20,277	1,237	12.32	12	9.61	670	6.67	5	4.04
092 094	Nisga'a Telegraph Creek	1,968 692	174 49	17.78 14.14	3	16.95 39.22	73 20	7.46 5.77	1 -	5.75
161	Vancouver City Centre	119,350	4,681	8.22	42	8.89	3,149	5.53	12	2.56
162	Van. Downtown E. Side	64,648	2,418	8.19	31	12.66	2,513	8.51	10	4.14
163 164	Vancouver North East Vancouver West Side	104,641	5,528 5,720	10.84 8.78	47 47	8.43 8.15	2,893 3,726	5.67 5.72	26 23	4.70 4.02
165	Vancouver Midtown	88,202	5,155	12.10	47	9.03	2,281	5.35	31	6.01
166 201	Vancouver South Surrey	133,206 381,707	6,599 24,513	9.97 13.52	62 200	9.31 8.09	4,218 8,767	6.37 4.83	32 114	4.85 4.65
202	South Surrey/White Rock	84,251	2,663	6.59	17	6.34	4,290	10.61	5	1.88
	PROVINCIAL TOTAL	4,455,207	214,744	9.95	1,708	7.89	154,885	7.17	850	3.96

Table A

			irth Wt. Birth	Ce	esarean	Pre	e-term		enage other		lerly ıvida
	Local Health Area	Total	Rate	Total	Rate <sup>1</sup>	Total	Rate <sup>1</sup>	Total	Rate <sup>1</sup>	Total	Rate <sup>1</sup>
001	Fernie	28	39.16	248	346.85	43	60.14	25	34.97	102	142.66
002	Cranbrook	71	58.01	394	321.90	92	75.16	94	76.80	159	129.90
003	Kimberley	26	70.27	110	297.30	28	75.68	14	37.84	73	197.30
004 005	Windermere Creston	28 39	64.52 65.55	117 133	269.59 223.53	38 46	87.56 77.31	17 59	39.17 99.16	55 71	126.73 119.33
005	Kootenay Lake	4	29.20	24	175.18	5	36.50	1	7.30	28	204.38
007	Nelson	57	48.80	259	221.75	63	53.94	36	30.82	245	209.76
009	Castlegar	17	37.28	131	287.28	29	63.60	6	13.16	62	135.96
010	Arrow Lakes	8	51.28	43	275.64	11	70.51	5	32.05	28	179.49
011	Trail	51	63.75	221	276.25	64	80.00	41	51.25	118	147.50
012	Grand Forks Kettle Vallev	13	42.07	75 10	242.72	18	58.25	17 4	55.02 36.36	52	168.28 145.45
013 014	Southern Okanagan	2 52	18.18 82.28	18 178	163.64 281.65	8 52	72.73 82.28	41	64.87	16 95	150.32
014	Penticton	74	45.20	466	284.67	128	78.19	76	46.43	248	151.50
016	Keremeos	11	58.20	55	291.01	15	79.37	10	52.91	20	105.82
017	Princeton	14	104.48	28	208.96	19	141.79	16	119.40	16	119.40
018	Golden	19	54.60	111	318.97	21	60.34	11	31.61	66	189.66
019	Revelstoke	17	44.50	113	295.81	22	57.59	22	57.59	54	141.36
020 021	Salmon Arm	65 17	49.32 40.48	479 142	363.43 338.10	101 20	76.63 47.62	68 18	51.59 42.86	204	154.78 107.14
021	Armstrong-Spallumcheen Vernon	132	47.60	874	315.18	193	69.60	133	42.86	45 413	148.94
023	Central Okanagan	400	51.65	2,337	301.74	564	72.82	290	37.44	1.376	177.66
024	Kamloops	283	56.84	1,780	357.50	397	79.73	213	42.78	753	151.24
025	100 Mile House	31	60.90	150	294.70	45	88.41	31	60.90	61	119.84
026	North Thompson	13	57.27	62	273.13	13	57.27	12	52.86	27	118.94
027	Cariboo-Chilcotin	86	59.39	420	290.06	149	102.90	133	91.85	157	108.43
028 029	Quesnel Lillooet	71 13	56.75 54.85	349 70	278.98 295.36	92 18	73.54 75.95	114 23	91.13 97.05	124 22	99.12 92.83
029	South Cariboo	23	75.16	70 76	295.36	30	75.95 98.04	32	104.58	24	78.43
030	Merritt	25	41.05	176	289.00	45	73.89	61	104.36	71	116.58
032	Hope	18	49.18	93	254.10	34	92.90	41	112.02	39	106.56
033	Chilliwack	246	49.50	1,427	287.12	387	77.87	272	54.73	662	133.20
034	Abbotsford	432	50.99	2,333	275.38	585	69.05	287	33.88	1,044	123.23
035	Langley	354	52.73	1,927	287.01	449	66.88	154	22.94	1,322	196.90
037 038	Delta Richmond	255 467	58.58 55.65	1,504 2,631	345.51 313.55	318 582	73.05 69.36	59 58	13.55 6.91	1,149 2,622	263.96 312.48
040	New Westminster	212	62.67	1,040	307.42	289	85.43	65	19.21	930	274.90
040	Burnaby	636	56.95	3,427	306.89	799	71.55	129	11.55	3,314	296.77
042	Maple Ridge	266	56.67	1,505	320.62	374	79.68	113	24.07	1,011	215.38
043	Coquitlam	633	60.35	3,489	332.63	813	77.51	130	12.39	3,060	291.73
044	North Vancouver	337	55.95	1,927	319.94	448	74.38	49	8.14	2,287	379.71
045	West Vancouver-Bowen Is.	64	46.04	453	325.90	92	66.19	28	20.14	614	441.73
046 047	Sunshine Coast Powell River	44 28	41.90 41.06	310 194	295.24 284.46	78 44	74.29 64.52	45 35	42.86 51.32	241 103	229.52
047	Howe Sound	99	44.33	750	335.87	164	73.44	63	28.21	627	151.03 280.79
049	Bella Coola Valley	18	81.45	45	203.62	31	140.27	37	167.42	35	158.37
050	Queen Charlotte	9	40.00	62	275.56	16	71.11	14	62.22	42	186.67
051	Snow Country	3	111.11	10	370.37	1	37.04	2	74.07	5	185.19
052	Prince Rupert	32	37.04	252	291.67	75	86.81	106	122.69	116	134.26
053	Upper Skeena	12	36.47 50.69	79	240.12	23	69.91	43	130.70	41	124.62 153.92
054 055	Smithers Burns Lake	55 24	53.81	317 98	292.17 219.73	75 33	69.12 73.99	71 32	65.44 71.75	167 49	109.87
056	Nechako	54	49.50	283	259.40	63	57.75	104	95.33	96	87.99
057	Prince George	304	55.02	1,593	288.33	382	69.14	356	64.43	701	126.88
059	Peace River South	65	40.50	413	257.32	82	51.09	129	80.37	159	99.07
060	Peace River North	125	43.18	844	291.54	131	45.25	204	70.47	278	96.03
061	Greater Victoria	451	50.26	3,128	348.60	683	76.12	233	25.97	2,259	251.76
062 063	Sooke	173 102	50.44 52.33	1,263	368.22	262	76.38	96 73	27.99 37.46	677 465	197.38
063	Saanich Gulf Islands	21	47.95	597 101	306.31 230.59	160 22	82.09 50.23	14	31.96	115	238.58 262.56
065	Cowichan	156	58.67	657	247.09	257	96.65	196	73.71	462	173.75
066	Lake Cowichan	10	45.66	64	292.24	18	82.19	14	63.93	24	109.59
067	Ladysmith	45	59.84	191	253.99	79	105.05	51	67.82	109	144.95
068	Nanaimo	223	50.52	1,240	280.92	375	84.96	219	49.61	696	157.68
069	Qualicum	71	57.17	343	276.17	91	73.27	41 150	33.01	243	195.65
070 071	Alberni Courtenay	86 115	51.16 47.29	460 614	273.65 252.47	162 152	96.37 62.50	159 104	94.59 42.76	221 452	131.47 185.86
071	Countenay Campbell River	108	55.93	657	340.24	129	66.80	132	68.36	254	131.54
075	Mission	112	49.14	648	284.34	168	73.72	107	46.95	338	148.31
076	Agassiz-Harrison	33	68.18	141	291.32	53	109.50	49	101.24	69	142.56
077	Summerland	16	43.72	103	281.42	19	51.91	21	57.38	70	191.26
078	Enderby	14	37.14	106	281.17	31	82.23	24	63.66	54	143.24
080	Kitimat	21	44.30	173	364.98	31	65.40	44	92.83	60	126.58
081 083	Fort Nelson Central Coast	21 5	42.25 33.56	189 38	380.28 255.03	28 17	56.34 114.09	48 16	96.58 107.38	54 10	108.65 67.11
084	Vancouver Island West	4	35.40	28	247.79	10	88.50	19	168.14	12	106.19
085	Vancouver Island North	42	54.83	167	218.02	64	83.55	98	127.94	102	133.16
087	Stikine	3	96.77	6	193.55	4	129.03	2	64.52	2	64.52
880	Terrace	63	50.93	259	209.38	96	77.61	130	105.09	131	105.90
092	Nisga'a	8	45.98	30	172.41	17	97.70	36	206.90	14	80.46
094 161	Telegraph Creek Vancouver City Centre	243	0.00 51.91	9 1,456	183.67 311.04	1 338	20.41 72.21	6 23	122.45 4.91	7 1,598	142.86 341.38
162	Van. Downtown E. Side	153	63.28	612	253.10	238	98.43	23 69	28.54	800	330.85
163	Vancouver North East	364	65.85	1,623	293.60	456	82.49	86	15.56	1,720	311.14
164	Vancouver West Side	294	51.40	1,758	307.34	414	72.38	24	4.20	2,615	457.17
165	Vancouver Midtown	322	62.46	1,534	297.58	437	84.77	49	9.51	1,819	352.86
166	Vancouver South	458	69.40	1,957	296.56	539	81.68	106	16.06	1,989	301.41
201	Surrey South Surrey/White Rock	1,597	65.15	7,905	322.48	1,909	77.88	575	23.46	4,137	168.77
202	PROVINCIAL TOTAL	158 <b>11,976</b>	59.33 <b>55.77</b>	921 <b>65,634</b>	345.85 <b>305.64</b>	235 16 236	88.25 <b>75.61</b>	31 <b>7,149</b>	11.64 33.29	831 <b>47,918</b>	312.05 <b>223.14</b>
	. NOTHINGIAL TOTAL	17,570	55.11	55,054	000.04	. 0,200	. 0.01	1,140	30.23	-1,510	

			All Ca	01 uses of Death	1		All Ca	02 ancer Si	tes			Lu	03 ng Cancer				End/Nut/	04 Met. Disea	ases
	Local Health Area	SMR (p		TR PYLLI (p)	D<75	SMR	(p) Death			D<75	SMR		th TRPYLLI	(p)	D<75	SMR	(p) Death		
001 002	Fernie Cranbrook	1.08	433	1.05 1.10	210 386	1.02 1.03	123 276	0.8 0.9	5 "	68 146	1.36 1.11	43 78	1.15	/	25 44	0.73 1.46	* 12 * 56	0.09 1.61	+ 2 22
002	Kimberley	1.08	411	1.15	147	1.03	112	1.2		55	1.02	29			15	1.07	17	0.75	5
004 005	Windermere Creston	0.76 <sup>3</sup>	253	0.63 * 1.32 *	99 276	0.75	* 76 179	0.5 1.1		35 101	0.74	20 45		*	7 28	0.43 1.34	* 6	0.34 1.38	1 15
006	Kootenay Lake	1.02	161	1.19	79	1.37	* 65	1.4	6	41	1.18	15	1.58		11	0.45	3	0.07	+ 1
007 009	Nelson Castlegar	1.06 1.20 '	935	2 0.96 1.19	355 248	0.96 1.00	239 148	0.9 1.1		136 88	0.75 1.21	* 49 47			34 30	1.13 1.35	41 29	0.72 1.26	13 12
010	Arrow Lakes	1.04	231	1.01	83	1.30	* 85	1.0	4	40	1.20	21	1.16		13	1.18	11	<b>7</b> 0.69	2
011 012	Trail Grand Forks	1.20 '	1,093 515	1.35 * 1.35 *	395 192	1.18 0.92	* 293 123	1.2 0.8		145 65	0.94 0.73	60 26			33 20	1.19 0.98	45 19	1.18 1.07	18 5
013	Kettle Valley	0.84	126	<b>u</b> 0.87	59	0.90	43	0.9	5	26	0.76	10	0.98		7	0.31	2	<b>u</b> 0.22	+ 1
014 015	Southern Okanagan Penticton	1.04	1,300 2,662	1.21 * 1.28 *	425 744	1.08 1.10	388 * 728	1.0 1.2		172 299	1.31 1.23	* 125 * 210		*	64 88	1.23 1.19	65 123	0.65 7 1.40	14 28
016	Keremeos	1.16 '	344	1.40 *	135	1.18	104	1.0	5	52	1.35	32	0.91		14	1.19	15	1.03	5
017 018	Princeton Golden	1.19 '	296	<b>1</b> .39 * <b>1</b> .08	144 100	1.46	* 113 63	1.4 1.1		75 39	1.80	* 38			27 11	1.31 1.55	14 12	2.72 0.66	5 4
019	Revelstoke	1.02	259	1.01	109	1.04	77	0.7	6	38	1.13	22	0.71		12	1.15	12	1.00	6
020 021	Salmon Arm Armstrong-Spallumcheen	1.01 0.97	1,632 392	1.24 * 1.13	633 145	0.99 0.96	466 112	1.0		246 52	0.97 0.81	121 25			66 15	0.88 0.71	60 12	0.72 0.36	18 + 3
022	Vernon	1.08 3	3,107	* 1.15 لا	1,091	1.01	816	1.0	2	404	1.03	218	1.10		124	1.25	* 150	7 1.51	50
023 024	Central Okanagan Kamloops	0.98	7,411 4,129	1.00 <b>1</b> 1.17 *	2,481 1,772	1.01 1.05	2,131 1,149	1.0 1.0		1,010 612	0.99 1.21	* 353			305 197	0.89 1.25	280 * 192	<b>7</b> 0.93 <b>7</b> 1.32	97 84
025	100 Mile House	1.17 '	649	1.35 *	336	1.09	195	1.2		127	1.10	54	1.11		34	0.75	18	0.34	* 6
026 027	North Thompson Cariboo-Chilcotin	1.38 '	193 922	1.52 * 1.54 *	94 497	1.10 1.07	48 240	1.4 0.9		34 150	1.27 1.25	15 75			11 59	0.85 1.75	5 * 53	0.61 <b>7</b> 1.64	1 23
028 029	Quesnel	1.21 <sup>1</sup>	881	1.35 * 1.61 *	430	1.21 1.29	* 267 55	1.3	1 *	167 34	1.48 1.94	* 87 * 22	1.46		53 17	1.45 1.35	* 44 8	<b>7</b> 1.51 1.01	21 4
030	Lillooet South Cariboo	1.26 '	357	1.75 *	110 194	1.13	100	1.5 1.1		64	1.41	34	1.53		22	1.57	19	<b>7</b> 1.86	11
031 032	Merritt Hope	1.35 <sup>1</sup>	550 527	1.71 * 1.95 *	286 253	1.07 1.52	129 * 164	1.0 1.6		78 95	1.03 2.04	* 59		*	22 36	1.00 2.21	* 17 * 34	1.46 3.32	8 * 13
033	Chilliwack	1.14 '	3,530	1.20 *	1,359	1.17	* 1,022	1.2	3 *	532	1.21	* 276	1.28	*	163	0.97	125	1.21	54
034 035	Abbotsford Langley	1.01	4,626 4,460	<b>1</b> 1.00 <b>2</b> 0.92 *	1,595 1,573	0.93 1.05	* 1,152 1,220	0.9 1.0		555 635	0.81 1.08	* 256 324			150 177	1.21 0.90	* 226 156	<b>7</b> 1.13 0.92	84 56
037	Delta	0.95	3,131	<b>u</b> 0.78 *	1,084	0.98	941	<b>1</b> .0	1	506	0.89	222	0.95		132	0.82	* 111	1.01	46
038 040	Richmond New Westminster	0.73 '	4,479 2,544	<b>3</b> 0.59 * 1.08	1,539 916	0.80	* 1,377 * 692	0.7 1.1		722 341	0.77 1.42	* 345 * 213		*	188 117	0.76 0.93	* 190 83	0.56 1.18	* 73 35
041	Burnaby	0.93 '	6,889	<b>ט</b> 0.74 *	2,169	0.88	* 1,788	8.0 <b>ע</b>	7 *	846	0.85	* 445	0.84	*	222	0.96	289	0.98	100
042 043	Maple Ridge Coquitlam	1.13 ′	2,839 4.758	<b>1</b> 1.02 <b>1</b> 0.74 *	1,194 1,976	1.18 1.00	* 844 1,542	1.0 0.9		446 869	1.37 1.02	* 255 406			141 236	1.14 0.81	117 * 172	1.03 0.65	55 * 63
044	North Vancouver	0.90	4,143	<b>2</b> 0.69 *	1,303	0.89	* 1,146	<b>3</b> 0.8		576	0.75	* 250	0.73	*	145	0.87	164	0.82	55
045 046	West Vancouver-Bowen Is. Sunshine Coast	0.83 '	2,351 1,349	<b>3</b> 0.58 * <b>1</b> .02	508 509	0.86 1.06	* 643 428	0.7 1.1		255 231	0.51 1.01	* 99 107			38 65	0.51 0.81	* 59 47	0.21 0.95	* 10 20
047 048	Powell River Howe Sound	1.09 '	996	1.19 * 1.09	381 362	1.06 0.94	278 165	0.9 0.7		146 96	0.95 0.95	66 43			46 24	1.20 1.12	46 26	0.30 0.61	* 12 * 14
049	Bella Coola Valley	1.26	103	<b>2</b> .19 *	71	0.99	25	1.4		21	0.89	6			6	1.18	4	1.31	2
050 051	Queen Charlotte Snow Country	1.41 <sup>1</sup>	168 16	1.38 * 2.04	87 11	1.09 1.15	40 5	0.8 0.9		24 3	1.65 1.68	16			11	1.22	6	1.13	3
052	Prince Rupert	1.26 '	472	<b>1</b> .34 *	252	1.18	133	1.0	5	77	1.21	36	0.87		25	1.88	* 29	2.25	16
053 054	Upper Skeena Smithers	1.05 1.17 '	128 451	1.28 1.22 *	75 223	0.87 1.14	33 133	0.9 1.1		22 79	1.08 1.24	11 38			9 20	2.17 1.33	* 11 21	2.94 7 1.27	6 10
055	Burns Lake	1.22 '	280	1.39 *	137	1.17	80	0.8	5	47	1.54	* 28	1.04		19	2.21	* 21	<b>7</b> 1.22	7
056 057	Nechako Prince George	1.41 '	536	1.49 * 1.24 *	270 1,527	1.26 1.27	* 148 * 879	1.2 1.2		82 580	1.63 1.57	* 51 * 288		*	32 191	1.52 1.66	* 153	1.43 2.01	12 * 88
059	Peace River South	1.21	828	1.31 *	429 418	1.12	234 * 236	1.2		154	1.25	70 60			48 48	1.90	* 54	7 1.78	21
060 061	Peace River North Greater Victoria	1.19 '	732 10,785	1.25 * 1.05 *	3,015	1.30	2,736	1.2 1.0		159 1,182	1.28 0.98	661			314	1.18	29 423	0.80 <b>7</b> 1.38	13 * 140
062 063	Sooke Saanich	1.00 0.84	1,711 3,246	<b>3</b> 0.90 <b>4</b> 0.78 <b>*</b>	751 799	1.05 0.95	525 978	1.0 2 0.8		306 375	1.07 0.76	140 * 201		*	75 83	1.01 0.56	* 90	0.60 0.74	* 29 23
064	Gulf Islands	0.78 '	682	<b>2</b> 0.86	230	0.87	* 218	<b>2</b> 0.9	5	106	0.68	* 45	1.04		24	0.57	* 21	0.71	7
065 066	Cowichan Lake Cowichan	1.01 0.99	2,294 212	1.22 * 1.28	921 108	1.09 0.95	* 703 63	1.1 0.8		368 36	1.09 1.50	185 27			106 17	0.86 0.55	81 5	0.83 0.24	29 + 1
067	Ladysmith	1.21 '	1,108	1.33 *	380	1.24	* 321	1.2	8 *	168	1.36	* 93	1.31		52	1.10	42	<b>7</b> 1.68	17
068 069	Nanaimo Qualicum	1.05	4,494 2,564	<b>1</b> .16 <b>*</b>	1,677 847	1.04	1,247 821	<b>1</b> .1 <b>1</b> .0		644 395	1.09	340 201			190 111	1.30 0.70	* 231 * 81	<b>7</b> 1.09 0.76	75 27
070	Alberni	1.22 '	1,424	<b>≥</b> 1.56 *	645	1.20	* 412	1.1	9 *	217	1.34	* 122	1.40		62	1.74	* 85	2.02	* 38
071 072	Courtenay Campbell River	0.99 1.16 '	2,565 1,531	<b>1</b> .01 <b>1</b> .30 *	981 746	1.02 1.13	770 * 452	1.0 1.2	3 *	401 276	1.08 1.37	217 * 145		*	114 91	0.97 1.31	* 72	0.94 0.81	36 22
075	Mission Agassiz-Harrison	1.24 '	1,430	<b>1</b> .24 *	616	1.24	* 407 * 86	1.2 1.2	1 *	238	1.34	* 114	1.56	*	78	1.45	* 68	0.98	22 6
076 077	Summerland	0.93 0.94	337 683	<b>2</b> 0.80 *	166 165	0.81 1.08	209	0.8	6	57 76	0.95 1.10	27 55	0.97		20 23	0.92 0.73	14 22	1.78 0.16	+ 4
078 080	Enderby Kitimat	1.21 '	393	1.29 * 1.15	156 171	1.20 1.16	114 95	1.1 1.2		61 60	1.31	33 32			17 22	0.73 1.80	* 19	0.56 1.35	4 8
081	Fort Nelson	1.47 '	106	1.36	75	1.49	* 33	1.2	5	26	1.62	9			7	0.37	1	-	-
083 084	Central Coast Vancouver Island West	2.06 <sup>*</sup>	62 67	2.94 * 1.65 *	44 57	0.76 1.25	7 26	1.4 1.1		6 21	- 2.13	* 12	 ! 2.38		10	1.64 1.87	2 5	1.21 1.86	1 4
085	Vancouver Island North	1.62 '	415	1.71 *	278	1.67	* 143	1.5	3 *	97	2.08	* 48	1.88	*	32	1.88	* 20	2.11	16
087 088	Stikine Terrace	0.87 1.35	22 670	0.94 1.51 *	19 377	0.47 1.26	* 196	0.4 1.2		3 127	1.27 1.33	55 55			3 41	0.94 1.55	* 32	0.84 1.29	1 20
092	Nisga'a	1.88 '	73	2.27 *	44	1.24	15	1.2	4	8	0.94	3			1	3.78	* 6	3.31	5
094 161	Telegraph Creek Vancouver City Centre	1.45 1.02	20 3,149	3.56 * 3.54 <b>¥</b>	15 1,338	0.75 1.02	3 864	1.0 0.9		3 451	- 0.91	195			107	0.85	105	1.05	43
162	Van. Downtown E. Side	1.21 '	2,513	<b>2</b> .27 *	1,580	1.00	559	<b>1</b> .2	8 *	349	1.17	166	1.67	*	113	0.95	80	1.28	45 * 39
163 164	Vancouver North East Vancouver West Side	0.86 '	2,893	<b>3</b> 0.57 *	1,043 933	0.98 0.78	941 * 948	0.9 0.7	1 *	452 410	0.99	* 166	0.52	*	112 78	0.91	* 114	0.50 0.42	* 23
165 166	Vancouver Midtown Vancouver South	0.90 <sup>3</sup>	2,281	<b>3</b> 0.94 <b>3</b> 0.72 *	906 1,212	0.86 0.82	* 604 * 1,094	0.8 0.8 <b>K</b>		305 497	0.89	161 * 274		*	76 123	0.84 0.88	86 178	0.99 0.90	43 49
201	Surrey	1.01	8,767	1.02	4,169	0.95	* 2,416	<b>2</b> 0.9	9	1,451	0.90	* 602	0.95		376	1.27	* 447	<b>7</b> 1.09	180
202	South Surrey/White Rock PROVINCIAL TOTAL	0.92 *	4,290 <b>154,885</b>	<b>3</b> 0.73 * <b>1.00</b>	938 <b>57,924</b>	0.94 <b>1.00</b>	* 1,147 <b>43,455</b>	0.8 <b>1.0</b>		446 <b>22,321</b>	0.86 <b>1.00</b>	* 267		*	112 <b>6,289</b>	0.78 <b>1.00</b>	* 149 <b>6,369</b>	0.72 <b>7 1.00</b>	28 <b>2,338</b>

			D	05 Diabet	es				Circula	06 tory	Syste	m			Isch	nemic H	07 eart	Disea	ases	<u> </u>	Се	rebr	ovascul	08 ar D	isease	/Stro
Local Health Area Fernie	SMR 0.70		Death 9		YLLI (p) 0.13 +	D<75 2	SMR 0.97	(p)	Death 112		PYLLI 0.92	(p)	D<75 44	SMR 0.83	(p)	Death 46		YLLI 0.75	(p)	D<75	SMR 0.60	(p) *	Death 16	TR	PYLLI 0.25	(p) I
Cranbrook	1.59		48		1.58	17	1.14	*	321	ĸ	0.75		58	1.13	_	149	7	0.93		29	0.96		64	ĸ	0.63	
Kimberley Windermere	1.11 0.45		14 5		0.58 0.52	3 1	0.93 0.67	*	112 66	7	0.79 0.71		25 20	0.61 0.59	*	34 28	Ŋ	0.71		14 9	1.04 0.75		30 17		1.11	
Creston	1.16		27		1.42	12	1.17	*	260		1.30		56	1.18		122		1.69	*	36	1.03		55		0.35	*
Kootenay Lake Nelson	0.57 1.27		3 36		0.11 + 0.46 *	1 9	0.69 1.29	*	33 350	Ŋ	0.37 1.22	*	8 87	0.92 1.30	*	21 165	7	0.55 1.22		6 46	0.53 1.28	*	6 82		0.29 1.40	+
Castlegar	1.41		24		1.02	8	1.23	*	199	ĸ	1.35		57	1.22		92		1.17		29	1.22		47		1.49	
Arrow Lakes Trail	0.81		6 38		0.75 1.16	1 15	0.78 1.25	*	54 369	K	0.75 1.34		15 83	0.77 1.30	*	25 177	K	0.80		7 38	0.74 1.16		12 83	K	0.76 1.14	
Grand Forks	1.03		16		0.61	3	1.34	*	194	K	1.26		43	1.43	*	97	_	1.45		29	1.43	*	49		0.68	
Kettle Valley Southern Okanagan	0.39		2 50		0.31 + 0.65	1 11	0.96		42 369	ĸ	0.84		13 89	0.93		20 162	ĸ	0.72		6 48	1.11	*	11 75		1.15	
Penticton	1.09		90		0.03	16	0.93	*	779	K	1.06		132	0.86		359	K	1.05		68	0.78		200		0.81	
Keremeos	1.28		13		0.92	4	1.16		109		1.35		27	1.06		47 32	Ä	1.03		11	0.73		16		1.32	
Princeton Golden	1.28		11 11		0.50 0.96	3	1.00		76 66	K	0.82		25 25	0.88		28	K	0.99		15 12	1.03		18 13		0.93	
Revelstoke	1.09		9		1.54	6	1.11		84	Z	1.52		26	0.81		29	Ä	1.18		11	1.12		20	7	1.28	
Salmon Arm Armstrong-Spallumcheen	0.92		50 9		0.99 0.15 +	15 1	0.94 1.01		481 128	K	1.00 1.05		127 32	0.90 0.86		214 51	K	1.03		74 18	0.89		108 25	ĸ	1.00 1.52	
Vernon	1.33	*	127		1.38	39	1.13	*	1,037	Ŋ	1.22	*	231	1.01		432	Ä	1.15		117	1.11		245		1.23	
Central Okanagan Kamloops	0.90	*	225 150		0.97 1.19	74 66	1.00 1.07	*	2,399 1,187	K	0.94 1.06		459 339	0.93 1.09	*	1,034 570	K	0.84 1.28	*	229 214	1.00		576 262		1.18 0.83	
100 Mile House	0.89		17		0.46 *	5	1.16	*	188		1.17		68	1.17		92		1.19		42	1.43	*	53	_	0.87	
North Thompson Cariboo-Chilcotin	0.86 1.97	*	4 47		0.92 2.18 *	1 21	1.31 1.22	*	53 254	ĸ	1.59 1.15		20 88	1.43 1.11		28 111	ĸ	1.51 1.17		11 50	1.08 1.20		10 57	ĸ	1.31 1.40	
Quesnel	1.46	*	35		1.30	16	1.17	*	249	Ä	1.18		75	0.99		100		1.14		39	1.24		61		0.84	
Lillooet South Cariboo	1.29		6 14		0.89 1.97	2 8	1.31		55 86	ĸ	1.77	*	25 37	1.35		27 45	Z	1.42	*	12 24	0.82		8 17	Z	2.03 1.92	
Merritt	0.89		12		1.20	5	1.57	*	194		2.00	*	75	1.71	*	100	7	2.22	*	44	1.56	*	45		1.28	
Hope Chilliwack	2.11 0.95	-	26 97		2.53 1.32	9 40	1.19 1.10	*	134 1,071	K	1.78 1.31	*	53 269	1.33 1.21	*	71 547	K	1.69 1.48	*	28 160	0.83 0.95		22 222	ĸ	1.08 1.35	
Abbotsford	1.24	*	182	7	1.13	64	1.10	*	1,582	ĸ	0.93		312	1.16	*	772	7	1.06	*	181	0.98		339	Z	1.06	
Langley Delta	0.93	*	126 77		0.84 0.70	42 31	1.09 1.03	*	1,443 1,020	K	1.06 0.79	*	332 191	1.24 1.03		755 480	K	1.29 0.85		213 109	1.03	*	328 266	K	0.77 0.63	*
Richmond	0.80	*	157		0.69 *	59	0.73	*	1,362	ĸ	0.59	*	278	0.76	*	657	Ä	0.54	*	144	0.83	*	370	ĸ	0.66	*
New Westminster Burnaby	0.90		63 230		1.45 0.99	27 77	1.26 0.98	*	886 2,258	K	1.26 0.82	*	193 452	1.49 1.15	*	477 1,219	ĸ	1.27 0.84	*	112 243	1.04 0.93		177 512	K K	1.47 1.05	
Maple Řidge	1.12		90		1.24	42	1.16	*	870	ĸ	1.15		241	1.23	*	431	7	1.31	*	129	1.16	*	206	ĸ	1.07	
Coquitlam North Vancouver	0.80	*	132 134		0.58 * 0.84	48 41	0.90	*	1,362 1,405	K	0.81	*	353 258	0.93	*	658 605	K	0.79	*	195 131	0.90	*	317 400	K	0.77	
West Vancouver-Bowen Is	.0.52		48		0.20 *	8	0.92	*	865	ĸ	0.51	*	95	0.84	*	362	7	0.44	*	46	1.16	*	267		0.63	*
Sunshine Coast Powell River	0.71	•	33 33		0.99 0.24 *	13 7	1.00 1.04		437 299	K	1.05 1.25		108 81	0.89 1.00		183 134	K	1.21		61 46	1.16 0.94		121 64	ĸ	0.58	
Howe Sound	1.13		20		0.74	11	1.02		156	ĸ	1.26	_	73	1.05	*	77		1.47		42	1.21		41		1.42	
Bella Coola Valley Queen Charlotte	1.13		3 5		2.08 0.82	2 2	1.43 1.14		33 38	K	2.71 1.66	*	17 18	1.88 1.18	*	21 19		2.75 2.02		10 13	0.94		5 7	ĸ	1.42 1.14	
Snow Country	-	*	-		-	-	1.67		5		1.32	*	3	0.64		1	• •	0.22	+	1	1.65		1		6.33	
Prince Rupert Upper Skeena	2.16 2.27	*	26 9		1.94 2.51	13 4	1.19 0.97		127 32	K	1.87 1.12	*	60 18	1.10 1.24		56 20	צ	1.31		29 11	1.14 0.67		28 5	ĸ	3.27 1.15	
Smithers	1.38		17		1.51	8	1.01		109	ĸ	0.76		31	0.87		45	Ŋ	1.02		18	0.89		22		0.47	*
Burns Lake Nechako	2.27 1.53		17 19		1.65 1.73	5 10	1.08	*	72 148	K	1.32		25 47	1.35		43 54		1.50		15 26	0.98	*	15 48		1.83	
Prince George	1.56		112		1.76 *	63	1.17	*	724	ĸ	1.11		283	1.09	*	325	Ŋ	1.08		141	1.21	*	170	Ŋ	1.23	
Peace River South Peace River North	2.16 1.12		48 21		1.69 1.01	17 10	1.19 0.98		230 162		0.99 1.11		76 60	1.27 0.98	_ ~	118 77	ĸ	1.23 1.12		48 29	0.95 0.94		42 35		0.59 0.75	
Greater Victoria	0.93		317	7	1.25	92	1.04	*	3,742	ĸ	1.08		549	0.98		1,589	7	0.95		277	0.99		880	7	1.21	
Sooke Saanich	0.90		49 72		0.52 * 0.51 *	22 17	1.03 0.77	*	509 989	K	1.00	*	152 136	1.03 0.69	*	240 408		0.99	*	83 70	1.01 0.86	*	116 269	ĸ	0.88 0.75	
Gulf Islands	0.48		14		0.97	6	0.77	*	217	K	0.66	*	43	0.63	*	83	ĸ	0.74		22	0.76	*	51	ĸ	0.09	+
Cowichan Lake Cowichan	0.91		68 5		0.84 0.36	23 1	0.98 1.19		698 74	Ŋ	1.08 1.49		157 28	0.96 1.10		318 33	Ŋ	0.91 1.32		66 12	0.93 1.39		157 20	Я	1.06 2.29	
Ladysmith	1.08		33		1.37	14	1.15	*	337		1.03		74	1.07		146		0.82		34	1.20		84		1.01	
Nanaimo Qualicum	1.37		192 66		1.27 0.82	65 23	1.05 0.91	*	1,427 791	K	1.16 0.79	*	321 148	1.09 0.91	*	683 371		1.14 0.88		179 90	0.97	*	313 178		0.98	
Alberni	1.65	*	64		1.49	26	1.11	*	396	ĸ	1.48	*	121	1.22	*	206	7	1.43	*	70	1.02		86	ĸ	1.87	
Courtenay Campbell River	1.00		86 56		1.12 0.56 *	29 15	0.96 1.19	*	770 460		0.97 1.15		205 146	0.87 1.02		329 188	K	0.95		112 60	1.15 1.27	*	220 114	Я	1.01 1.49	
Mission	1.53	*	56		1.41	21	1.23	*	422	ĸ	1.21		106	1.24	*	201	7	1.10		52	1.04		84		1.18	
Agassiz-Harrison Summerland	1.07 0.75		13 18		2.70 0.19 +	6 3	0.89 0.86	*	99 209		1.12 0.79		33 30	0.93 0.81	*	49 91		1.06 0.71		18 16	0.96 0.96		25 57	Я	1.33 0.46	*
Enderby	0.55		6		0.48	2	1.26	*	127		0.91		26	1.19		57		0.83		15	1.40		33		0.88	
Kitimat Fort Nelson	2.05 0.50		17 1		1.95	7	1.23 1.90	*	83 29		1.31 1.43		34 13	1.27 1.67		42 13		1.34 1.70		21 8	1.13 1.31		17 4		0.35 0.31	+
Central Coast	2.12		2		2.09	1	1.99	*	16		2.11		7	2.29	*	9		2.63		5	3.37	*	6		4.53	
Vancouver Island West Vancouver Island North	1.91 1.58		13		1.90 2.32	3 11	0.68 1.38	*	12 89	ĸ	1.36 1.71	*	9 48	0.57 1.27		5 41	Z	1.41	*	5 25	0.26 1.57		1 22		0.80 2.11	
Stikine	1.19		1		1.26	1	0.77	*	5		0.39	+	4	1.23	*	4		0.61	*	3	0.70		1		0.39	
Terrace Nisga'a	1.73 4.06		28 5		1.61 3.47	17 4	1.48 2.46	*	202 25		1.48 2.60		75 11	1.60 2.00		106 10		2.05 2.08	**	53 5	1.26 2.69		39 6		1.03 5.98	
Telegraph Creek	-		-		-	-	0.78		3		0.15	+	1	0.54		1		0.29	+	1	1.17		1		-	
Vancouver City Centre Van. Downtown E. Side	0.82		79 59		1.16 1.30	33 35	0.93 1.02	*	859 666		1.04 2.45	*	256 306	0.92 1.02		393 307		1.10	*	144 149	1.01 0.94		222 146	ĸ	0.95 2.27	*
Vancouver North East	0.91		100		0.49 *	29	0.80	*	819	ĸ	0.80	*	190	0.70	*	334	7	0.64	*	83	0.95		232	ĸ	0.94	*
Vancouver West Side Vancouver Midtown	0.50		73 64		0.38 * 1.06	15 30	0.79 0.90	*	1,171 689		0.52 1.07	*	164 180	0.71 0.80	*	478 282		0.48	*	75 88	0.87 1.16	*	314 210		0.42 1.15	-
Vancouver South	0.94		149		1.02	41	0.86	*	1,362	ĸ	0.72	*	241	0.83	*	602	7	0.61	*	110	0.95		364	ĸ	0.99	
Surrey South Surrey/White Rock	1.36 0.66		374 100		1.25 0.44 *	146 17	1.06 0.95	*	2,598 1,492		1.13 0.64	*	833 169	1.14 1.07		1,325 765		1.27 0.66	*	499 90	0.96 0.92		550 352		1.15 0.52	*
South Surrey/white Hock	0.00		100 <b>5,018</b>		0.44 ^ <b>1.00</b>	1,777	0.95 <b>1.00</b>		1,492 <b>48,129</b>		0.64 <b>1.00</b>		169 <b>1,156</b>	1.07 <b>1.00</b>		765 2 <b>2,355</b>		1.00		<b>6,035</b>	0.92 <b>1.00</b>		352 <b>11,486</b>	R		

		Art	teries/Ar	09 teriole		illaries		R	l <u>e</u> spira	10 atory	System			Pne	<u>u</u> moni	11 ia an	ıd Influ	enza			_ C	hronic	12 Lung	g Disease	
001		SMR (p)	Death	TR F	PYLLI (p	) D<75	SMR		Death		PYLLI (p			(p)	Death		PYLLI			SMR	(p)	Death		PYLLI (p)	D<75
003 004	Fernie Cranbrook Kimberley Windermere	1.59 1.40 1.26 0.55	10 21 8 3	ע	1.53 0.84 0.27 + 0.96	2	1.24 1.26 1.10 0.93	*	49 123 46 32		1.11 1.23 1.20 0.66	20 34 13 8	0.86 0.77 0.55 0.31	+	13 29 9 4		0.51 0.64 -		2 7 -	1.65 1.73 1.51 1.37	*	27 70 26 20		1.64 1.63 2.80 0.67	14 16 11 4
005	Creston Kootenay Lake	1.02	12 2		0.36 +		1.06 0.54		83		2.01 * 0.38 +	27 3	0.88		27 3		2.26 0.62		6	1.14		37 4		1.94 0.42	14
007	Nelson	1.82 *	26		3.06	10	0.84		79		1.03	24	0.43	*	16	ĸ	0.74		5	1.26		48		0.96	13
010	Castlegar Arrow Lakes	2.10 * 0.81	18 3		1.95	7	1.09 0.79		61 19	И	1.63 0.38 +	20 3	0.77 0.76		17 7	Z	1.36		6	1.48	•	34 11	Z	1.43 0.86	10 2
011	Trail Grand Forks	0.85 1.54	13 12		2.45 3.55	5 4	1.08		111 47		1.89	25 10	0.75 1.24		31 24		1.88 1.23		7 4	1.50	*	62 17		1.49 0.77	13 3
013	Kettle Valley	0.81	2		3.11	2	0.71		11		0.74	4	0.18		1		0.46		1	1.33		9		1.49	3
014 015	Southern Okanagan Penticton	1.07 0.95	23 41		1.37 1.47	10 9	0.92 1.08		132 318		0.99 1.36	27 54	0.97 1.24	*	53 147		0.64 1.84		8 22	0.89 0.97		54 115		1.10 1.11	12 24
016	Keremeos	1.77	9		0.97	3	1.09	*	36		1.50	11	0.97	*	12		-		-	1.27		18		2.23	8
	Princeton Golden	0.71 3.05 *	3 9	7	0.72	3	1.50		40 21		2.10 0.29 *	13	2.06		20 12		4.03 0.36	+	2	1.12		13		1.71 0.46 +	7
019	Revelstoke Salmon Arm	1.72 1.14	7		4.57 1.07	4 11	1.07 0.89		28 160		0.76 0.58 *	6 30	1.29 0.73	*	13 50		1.20 0.27	*	3 5	0.92		10 85		0.86 0.85	3 19
021	Armstrong-Spallumcheen	1.33	9		0.13 +	1	0.83		37	ĸ	0.74	8	0.63		11		0.87		3	1.14		21		1.14	5
	Vernon Central Okanagan	1.34 * 1.08	65 137		0.71 0.84	15 31	1.07 0.92	*	344 774	И	1.09 0.99	80 145	1.00 0.85	*	127 283	ĸ	1.10 1.13		21 38	1.21 1.03	^	160 358		1.16 0.98	42 74
024	Kamloops 100 Mile House	1.20	72 9	7	1.10 0.68	20	1.00	*	386 73	Ŋ	1.18 1.65	124 28	0.75	*	110 26	ĸ	1.30		29 7	1.27	*	207 36	ĸ	1.29	74 18
026	North Thompson	2.22	5		5.16	2	1.71	*	24	4.	2.97 *	16	1.54		8		4.32		5	2.00	*	12	•	2.82	8
028	Cariboo-Chilcotin Quesnel	1.31 1.63	15 19		0.58 3.09	4 10	0.95 1.06		68 78	K	0.97 0.98	24 20	0.64 0.83		17 23		0.88 0.54		5 4	1.25 1.44	*	38 45	Ŋ	1.28 1.78	14 13
029	Lillooet South Cariboo	3.06 *	7 5		1.40 0.59	3 2	1.79	*	26 38		1.48 2.36	9	1.99		11 10		0.43	+	3	1.64	*	10		2.20	4 5
031	Merritt	1.20	8		2.00	5	1.37	*	59		1.54	19	1.03		17		1.15		5	1.78	*	32		1.55	9
033	Hope Chilliwack	0.98 0.99	6 51	7	3.13 0.92	5 15	1.59 1.40	*	63 478	7	1.93 1.53 *	18 119	1.21 1.56	*	18 208		2.04 1.67		5 38	2.21 1.33	*	37 189	7	2.82 * 1.66 *	12 58
034	Abbotsford Langley	0.92 0.96	69 66	7	0.60 0.87	13 20	1.12 1.21	*	563 553		1.21 0.86	121 109	1.39 1.27	*	282 235		1.12 0.82		37 26	1.01 1.24	*	206 229		1.32 1.16	61 60
037	Delta	0.74	39	7	0.22 *	9	0.95	*	326	\$1	0.81	61	1.18	*	159	N.	0.92	*	21	0.75	*	107	N.	0.77	27
	Richmond New Westminster	0.52 *	51 41		0.56 * 1.65	14 13	0.81		527 266	K	0.42 *	90 54	0.79		202 89	K	0.19		19 15	0.72 1.16		190 110	7	0.43 * 1.41	40 27
041	Burnaby Maple Ridge	0.57 * 0.91	69 36	Z	0.63 * 1.18	19 12	1.14 1.15	*	911 298		0.56 * 1.06	134 78	1.21 1.02	*	388 104		0.37 1.05	*	28 22	1.07 1.20		345 127		0.78 1.30	70 40
043	Coquitlam	0.79	64	7	0.93	22	0.95		494	K	0.66 *	113	1.04		209	Z	0.56	*	31	0.84	*	179	K	0.59 *	50
045	North Vancouver West Vancouver-Bowen Is.	0.80 0.98	59 47		0.53 * 0.44 *	13 5	0.91 0.89	*	448 291	7	0.49 * 0.50 *	66 33	1.02 1.28	*	199 172	7	0.59 0.70		18 13	0.77 0.52	*	153 68	K	0.35 * 0.35 *	27 13
	Sunshine Coast Powell River	1.16 1.25	27 19		1.35 1.32	11 6	0.80	*	123 101		0.64 * 1.31	24 23	1.01		60 29		0.93		11 5	0.59	*	38 54	Ŋ	0.61 1.23	10 12
048	Howe Sound	0.59	5	7	0.39 +	4	0.91		47		1.00	20	1.06		21		1.59		11	0.99		21		0.81	5
050	Bella Coola Valley Queen Charlotte	0.78 0.55	1 1		2.20 2.34	1 1	0.87 1.76	*	7 20		1.01 2.91	4 9	1.01 1.17		3 5		1.71 2.72		2 1	1.17 2.54	*	4 12		1.00 4.06	2 6
	Snow Country Prince Rupert	5.48 1.38	1 8		1.67	4	0.96 1.07		1 39		0.75	- 8	0.72		10		0.90		2	2.15 1.24		1 19		0.11 +	2
053	Upper Skeena	0.53	1		0.27 +	1	1.31		15		0.81	4	1.20		5		-	,	-	0.61		3		-	-
055	Smithers Burns Lake	1.01 0.27	6 1		0.87	2	1.05		39 24		0.77 1.20	12 7	0.72		10		0.33 0.67	+	2	1.35		21 13		1.01 0.77	7 2
	Nechako Prince George	1.35 1.75 *	8 60		0.28 + 2.01 *	1 33	1.84 1.16	*	68 247	ĸ	2.95 * 1.23	28 99	1.70 0.88	*	23 70	ĸ	0.83 1.01		5 23	2.40 1.33	*	38 119	7	5.67 * 1.29	18 47
059	Peace River South	1.03	11		1.45	4	1.06	*	71	Z	1.12	23	0.85		21	-	0.87	*	5	1.26	*	36		0.94	13
060 061	Peace River North Greater Victoria	1.00	181	7	1.66	6 41	1.34 0.86		76 1,070	Z	0.74	23 169	0.69	*	26 362	ĸ	0.40		5 38	1.71		40 481	Z	1.60	16 88
	Sooke Saanich	0.90 0.74 *	24 49		1.13 0.46 *	8 8	0.90 0.82	*	153 372	ĸ	1.17 0.85	48 54	0.80 0.75	*	53 136	ĸ	1.65 0.85		22 10	0.98 0.81	*	69 147	ĸ	0.64 0.60 *	17 21
064	Gulf Islands Cowichan	1.21	18 55		0.80	5 19	0.68	*	67 235	K	0.66 1.30	15 60	0.72		28 88	7	0.22	+	4	0.54	*	22	Ä	1.17 1.05	8 25
066	Lake Cowichan	0.87	3		1.26	1	1.02		22	3	1.40	7	2.02	*	16	7	3.51		6	0.32	+	3	ĸ	0.30 +	1
068	Ladysmith Nanaimo	1.56 1.00	24 71	7	1.26 1.04	9 22	1.19 0.95		122 447	ĸ	1.12 1.32 *	20 126	1.23 0.79	*	49 148		0.71 1.18		5 28	1.07 1.04		45 201		0.81 1.31	12 65
069	Qualicum Alberni	0.92	43 19	7	1.05 0.45 +	14	0.90 0.99		275 123		0.75 1.10	43 40	1.03 0.76		120 36		0.54		8	0.84		109		0.70 1.06	23 23
071	Courtenay	1.16	50		1.34	18	0.90		253	ĸ	0.85	60	0.65	*	70	ĸ	0.51	*	9	1.10		129		1.12	33
075	Campbell River Mission	1.56 * 1.31	33 24		1.61 1.99	16 6	0.93	*	125 166		1.24 1.29	42 41	0.75 1.04		38 49	ĸ	1.32 0.78		10 10	1.01 1.95	*	57 95		1.06 1.45	19 23
076	Agassiz-Harrison Summerland	0.66 0.95	4		1.64 0.20 +	2	0.92	*	36 60	ĸ	1.03	13 13	0.67 0.55	*	10 19	ZI.	0.78		4	1.03		17 29		1.93 0.61	9
078	Enderby	1.10	6		0.76	1	0.95		34	-	2.75	12	0.66		9	-	4.65		4	1.20		18		1.77	6
081	Kitimat Fort Nelson	1.30 4.46 +	5 4		1.55 3.17	3 1	1.21 1.37		28 7		0.85 0.32 +	10 2	1.11 1.08		9 2		0.42 0.56		1	0.98 2.38		10 5		0.65 0.22 +	5 1
083	Central Coast Vancouver Island West	3.00	3		1.72	2	3.18 0.84	*	9		10.05	7 5	4.76 0.46	*	5 1		15.95 3.11		4	1.68		2		1.93 2.70	1 3
085	Vancouver Island North	0.53	2		1.00	2	1.70	*	37		2.26	17	1.45		11		2.33		5	2.01	*	19		1.73	3 7
880	Stikine Terrace	0.52	4		1.08	2	0.45 1.30		1 62		0.64 1.69	1 25	1.45		25		1.86		7	1.02 1.03		1 21		1.79 1.33	1 10
092	Nisga'a Telegraph Creek	-	-		-	-	1.73		6		1.56	3	1.92		1		15.58		- 1	3.38	*	5		5.10	3
161	Vancouver City Centre	1.20	58		1.02	19	1.13	*	359	K	1.09	77	1.26	*	162	ĸ	1.15	*	29	0.99		124	K	1.10	29
163	Van. Downtown E. Side Vancouver North East	1.01	34 39		2.37 * 0.95	24 9	1.34 0.81	*	298 293	K	4.82 * 0.76	162 64	1.33	*	120 110	ĸ	6.27 0.42	*	72 18	1.35 0.67	*	120 100	K	4.73 * 0.56 *	64 20
	Vancouver West Side Vancouver Midtown	0.68 * 1.00	51 40		0.44 * 0.91	12 12	1.05 0.90		540 240	K	0.54 * 0.80	49 47	1.36 0.96	*	289 101	K	0.83 0.74		26 11	0.61 0.78	*	122 84	K	0.28 * 0.77	11 19
166	Vancouver South	0.87	71	7	0.65	13	0.91	*	498	7	0.69 *	76	1.07	*	238	-	0.73		22	0.60	*	132	7	0.47 *	30
202	Surrey South Surrey/White Rock	1.24 * 0.98	166 78		0.80 0.62	40 10	1.03	*	882 498	7	0.95 0.59 *	257 53	1.22		397 231		1.10 0.55	*	101 15	0.98	*	347 167	7	0.75 * 0.50 *	100 25
	PROVINCIÁL TOTAL	1.00	2,531	7	1.00	741	1.00	16	6,735	7	1.00	3,724	1.00	(	6,620	7	1.00	1,	,060	1.00		6,819	7	1.00	1,781

		Dige	13 stive S	ystem			Мо	tor Veh	14 nicle	Accid	lents			l	Uninter	15 ntional Fall	S				S	16 uicid	е		
Local Health Area Fernie	SMR (p) 1.20	Death 21		/LLI (p) .09	D<75	SMR 2.64	(p)	Death 16	TR F	PYLLI 2.30	(p)	D<75 12	SMR 1.36	(p)	Death 6	TR PYLLI 0.16		D<75	SMR 1.18	(p)	Death 9	TR	PYLLI 1.20	(p)	
Cranbrook	0.83	32		.09 .67	18	1.54		16	7	2.03		16	1.54		16	0.16	+	5	1.42		18		1.21		
Kimberley	0.70	11		.26 +	4	2.29		8		2.53		6	2.74	*	12	0.15	+	1	1.81		8		1.46		
Windermere Creston	0.99 1.04	14 29		.83 .03	8 11	1.93 1.36		8 7		1.41 0.79		6 4	1.37		5 10	0.12 4.83	+	1 5	0.77 1.43		4 9		0.67 1.66		
Kootenay Lake	1.04	7		.03 .82	3	1.96		3		2.76		3	3.98	*	7	6.66		3	2.48		5		1.73		
Nelson	0.81	30	0	.60	9	1.17		12	ĸ	1.12		12	1.68		17	2.13		4	1.03		13		0.88		
Castlegar Arrow Lakes	1.85 * 1.07	40 10		.61 .47	12	1.99		11		2.10		9	1.84		11	2.19		3	0.89		6		0.95		
Trail	1.07	54		.47 .65	28	1.59		13		1.35		8	1.20		13	1.05		6	0.90		9		1.06		
Grand Forks	1.38	26		.48	12	3.44	*	13		4.11	*	13	2.10	*	11	2.38		3	1.27		6		0.92		
Kettle Valley	0.16 + 1.15	1 58	<b>1</b> -	.76	26	1.36	*	2 16		0.67 2.17		2 14	0.63 1.38		1 20	1.00		- 5	2.51		5 12		1.62		
Southern Okanagan Penticton	1.15	119		.76 .59 *	44	1.21		22		1.48		17	1.15		35	1.88		6	1.13		26		1.61		
Keremeos	1.49	18	1	.14	5	6.18	*	13		8.69	*	12	0.90		3	-		-	0.37		1		0.52		
Princeton Golden	1.44 0.74	15 6		.40 .54	6	3.34 1.32	*	7 4		4.50 1.95		7 4	1.11		3	-		-	0.72		2		0.66		
Revelstoke	1.30	14		.42 *	6	0.90		3		0.96		3	0.46		1	٠ لا		-	0.60		3		0.87		
Salmon Arm	1.21	81	1	.30	36	2.39	*	34		2.79	*	30	1.24		23	1.23		3	1.19		21		1.72		
Armstrong-Spallumcheen	0.71 0.82 *	12 97		.72 .00	39	3.04 1.30	*	12 35	ĸ	4.36	*	12 26	1.07		5 28	0.13 0.87	+	1 7	1.24		6 40		1.25		
Vernon Central Okanagan	0.62	292		.13	121	1.04		78	3	1.03		66	1.14		101	0.87		21	0.99		89	ĸ	1.06		
Kamloops	1.24 *	192	1	.32	92	1.74	*	79	ĸ	1.56	*	75	1.08		44	0.78		13	1.02		56		0.98		
100 Mile House North Thompson	1.34 2.64 *	32 16		.70 .66	19	3.32 2.92	*	20 5		3.74 3.26	*	18 4	0.68		4	0.48		2	1.28		10 4		1.26 2.47		
Cariboo-Chilcotin	1.52 *	48		.64	30	3.21	*	35		3.53	*	34	1.67		13	0.84		2	1.87	*	25		2.47	*	
Quesnel	1.45 *	45	1	.97	25	1.89	*	18		2.12	*	17	0.76		6	<b>u</b> 0.59		3	1.10		13		1.20		
Lillooet South Cariboo	2.32 * 2.17 *	14 26		.29 .15 *	6 19	0.56 2.67	*	1 8		1.13		1	1.28		2	0.86 1.18		1	0.45		1 2		0.56		
Merritt	1.86 *	32		.15 *	26	2.07	*	14		3.27	*	13	2.63	*	12	2.29		5	1.38		8		1.15		
Hope	1.66 *	25	2	.32	16	2.36	*	8		2.18		6	1.97		8	2.17		2	1.64		7		1.65		
Chilliwack Abbotsford	1.13 0.86	144 160		.26 .89	69 75	0.90		30 68	7	0.80		24 60	0.81		29 44	1.45 0.89		9 10	1.14		45 57		1.10		
Langley	1.00	175		.69 .74 *	75 57	1.15		60		1.10		51	1.01		50	0.89	*	9	0.89		56	3	0.93		
Delta	1.04	144		.84	56	0.67	*	28		0.64	*	25	0.48	*	18	0.57		5	0.52	*	26	ĸ	0.46	*	
Richmond New Westminster	0.72 * 1.15	184 106	<b>2</b> 0	.55 * .00	63 48	0.45	*	36 23	R	0.43	*	26 23	0.48	*	34 29	<b>3</b> 0.34 0.55	*	8 7	0.65 1.09	*	62 36	ĸ	0.56 1.05	*	
Burnaby	0.94	286	<b>1</b> 0		104	0.46	*	43	ĸ	0.90	*	39	0.91		79	0.55		17	0.75	*	84		0.65	*	
Maple Ridge	1.18	125	0	.90	58	1.18		43		1.32		39	0.85		24	1.04		7	1.08		48		1.02		
Coquitlam North Vancouver	0.89 0.82 *	201 157	0 <b>K</b>	.65 *	89 53	0.81	*	71 24	<b>.</b>	0.79	*	65 22	0.69	*	40 41	<b>3</b> 0.56 <b>2</b> 1.19	*	13 12	0.72	*	76 49	7	0.66	*	
West Vancouver-Bowen Is.	0.86	99		.36 *	16	0.42	*	9	3	0.40	*	8	0.77	*	20	0.13	+	3	0.71		23		0.70		
Sunshine Coast	0.92	53	0	.95	24	1.50		18		1.76		15	1.25		20	1.89		4	0.72		11	ĸ	0.70		
Powell River	1.13	43		.06	20	1.45	*	12	и	2.08		12	0.67	*	7	0.06	+	1	1.45		15		1.22		
Howe Sound Bella Coola Valley	1.37 1.71	35 6		.57 .05	25 5	1.73 2.57		24 3	Я	1.70 3.52		23 3	2.10		13	5.35 -		10	2.74		21 4		1.20 3.43		
Queen Charlotte	1.71	9	2	.39	6	1.04		2		0.51		1	2.36		3	0.75		1	1.64		4		2.08		
Snow Country	1.79 1.73 *	1		.38	1	4.91		1 2		7.68		1	104		- 5	- 2.05		3	3.53 1.56		1		7.24 1.97		
Prince Rupert Upper Skeena	1.73	28 7		.94 .07	18 4	0.34 1.87		4		0.15	+	2	1.24 1.59		2	3.25 0.72		ა 1	1.57		4		2.66		
Smithers	1.08	18	0	.64	9	1.87		12		2.19		12	3.88	*	16	<b>⊅</b> 3.66		8	1.29		10		1.50		
Burns Lake	1.76 * 2.03 *	17 33		.39 .92 *	11 24	3.41	*	11 21		4.56 3.56	*	11	1.60 1.74		4	- 0.60		-	1.29		5 10		1.01		
Nechako Prince George	1.10	107		.92 .84	53	1.40	*	55	ĸ	1.27		19 52	1.47	*	35	0.60 1.16		11	1.24		59		1.33		
Peace River South	0.88	26	1	.06	15	2.21	*	24		2.35	*	23	1.23		9	0.86		2	1.07		14		1.04		
Peace River North	0.91	24		.01	17	3.31	*	45		3.64	*	43	0.46	*	3	0.48		2	1.08		17	*1	1.18		
Greater Victoria Sooke	0.95 1.05	413 77		.17 .63 *	151 32	0.40 0.86		39 22		0.38		32 19	1.36 1.01		183 19	1.02 0.68		35 6	1.14 0.84		131 27	7	1.11 0.97		
Saanich	0.80 *	124	0	.71	37	0.71		20		0.91		17	1.15		54	1.40		9	0.68		23		0.83		
Gulf Islands	0.96	35	71 1		11	0.92		6		0.56		3	0.59		6	-		-	0.60		5		0.56		
Cowichan Lake Cowichan	1.12 1.31	105 12		.65 * .75	59 8	1.20 0.77		28 2		1.48 0.85		25 2	0.69 0.87		18 2	<b>2</b> 0.95		7	1.35 0.91		38 3		1.54 1.44		
Ladysmith	1.22	46	1	.60	20	1.18		9		1.30		6	1.32		14	1.26		4	1.26		12		1.79		
Nanaimo	1.02	179	7 1		87	0.93		40		1.14	*	36	0.98		49	1.40		11	1.28		66	7	1.25		
Qualicum Alberni	0.94 1.18	104 58		.06 .65 *	42 36	1.41 2.14	*	27 28		1.99 2.15	*	20 23	1.26 1.44		39 19	0.28 0.99	+	4 5	0.91	*	22 30		0.94 1.77	*	
Courtenay	1.09	118	1	.03	49	0.97		25		1.05		21	1.12		33	0.81		8	1.25		40		1.30		
Campbell River	1.15	65		.16	36	1.73	*	29		1.45		24	1.25		18	2.02		6	1.85	*	39		2.13	*	
Mission Agassiz-Harrison	1.32 * 1.14	64 17		.64 * .74	41 5	1.41 1.64		24 6		1.55 2.86		24 6	1.07 1.23		14 5	1.50 0.15	+	8 1	0.73 1.34		15 6		0.77 2.09		
Summerland	0.92	27		.40 +	4	0.80		4		1.22		3	1.13		10	-		-	1.16		7		1.89		
Enderby	1.72 *	23		.85	11	2.53	*	8		3.32		7	0.82		3	-		-	1.80		7		2.05		
Kitimat Fort Nelson	1.52 1.23	17 4		.60 .60	13 3	1.40 4.37	*	6 11		0.95 5.06	*	6 11	1.18		3	1.96		3	1.11		6 1		1.38 0.22	+	
Central Coast	6.25 *	8		.26	6	4.37		- ''		-		-	3.17		1	7.99		1		+	4		6.57	т	
Vancouver Island West	0.69	2	1	.19	2	3.16		3		1.47		3	-		-	-		-	3.14		4		5.13		
Vancouver Island North Stikine	2.23 * 3.51	26 4		.75 .54	19 3	1.83		9		1.87		9	2.81	*	7	7.80		6	1.92 3.74		12 2		2.26 1.80		
Terrace	1.31	28		.54 .43	21	2.12	*	17		1.74		16	1.35		7	0.32	+	1	1.33		13		1.69		
Nisga'a	1.77	3	1	.32	2	-		-		-		-	-		-	-		-	7.61	*	7		12.90	*	
Telegraph Creek	3.46	2		.43	1	3.54	*	1		5.41	*	1	6.60		1	44.64		1	6.22	*	2	**	8.98		
Vancouver City Centre Van. Downtown E. Side	0.88 1.46 *	114 126		.79 .59 *	54 90	0.34 0.74		18 20	ĸ	0.22	*	14 14	0.72		26 29	<b>2</b> 0.98 <b>2</b> 2.91	*	11 20	1.40 1.91	*	93 67		1.28 2.03	*	
Vancouver North East	0.83	116	<b>2</b> 0	.53 *	41	0.50	*	22		0.37	*	16	0.81		31	0.32	*	5	0.69	*	36	_	0.67	*	
Vancouver West Side	0.73 *	139	<b>y</b> 0		31	0.35	*	20		0.24	*	15	0.78		44	0.91		10	0.83		55 27		0.64	*	
Vancouver Midtown Vancouver South	0.93 0.84 *	97 170	<b>1</b> ( <b>2</b>	.11 .68 *	47 59	0.47 0.44	*	17 25	N	0.42	*	15 17	0.97 0.74	*	28 44	1.03 0.70		7 9	0.83 0.74	*	37 50	ĸ	0.83 0.76		
Surrey	0.04	358		.00	194	0.86		127		0.78	*	115	0.91		86	1.05		38	0.82	*	143		0.77	*	
South Surrey/White Rock	0.74 *	140		.80	39	0.80		28		0.99		21	0.71		41	1.06		8			35		1.05		

			Alcohol	17 -Related Dea	ths		Medically Tr	18 eatable Dis	ease		Drug-Ir	19 nduce	d Deatl	าร			Smol	king-Att	20 tribut	table De	eaths	
	Local Health Area	SMR (p				SMR		TR PYLLI (				h TR		(p) D		SMR	(p)			PYLLI (		,
001 002	Fernie	1.13 1.48 *	37 90	0.96 1.28	28 66	0.66	2 2	0.58 0.44	2	0.56 1.22	4		0.65 1.25			1.20	*	91 203	K	1.10 0.87	49 69	ľ
002	Cranbrook Kimberley	1.46 *	34	1.48	24	1.74	3	1.75	3	0.51	14 2		0.39	+		1.16 0.97		70	K	0.07	25	ı
004	Windermere	1.19	29	0.79	19	-	-	-	-	0.42	2		0.60			0.83		54		0.60	* 20	
005 006	Creston Kootenay Lake	1.06 1.12	40 12	1.23 2.17	29 11	2.13	5	2.06	5 -	0.58 0.56	3 1		0.49 1.27			1.05 0.97		140 30		1.33 1.16	57 16	
007	Nelson	1.56 *	92	1.36	66	1.00	5	1.09	5	0.94	11		0.94		10	0.95		158		0.94	65	
009	Castlegar Arrow Lakes	1.49 *	49 26	1.72 * 1.72	34 15	2.31	6	2.82	6	0.98	6		0.87 0.42			1.18		116 42	Z	1.16 0.81	52 17	
011	Trail	1.94 *	100	<b>7</b> 1.95 *	73	1.58	6	1.74	6	1.00	9		0.79		9	1.15		196	Z	1.16	68	
012 013	Grand Forks Kettle Valley	1.58 * 0.98	43 11	2.03 * 0.65	31 7	-	-	-	-	0.50 0.58	2		0.60 0.89			1.05		95 27		1.16 1.12	39 15	
014	Southern Okanagan	1.71 *	114	1.89 *	77	1.06	4	0.88	4	0.72	6		0.77		5	1.05		260		1.36	* 98	
015 016	Penticton	1.20 * 1.79 *	146 31	1.39 * 2.95 *	101 24	1.44	11	1.50	11	1.91 0.91	* 35 2	7	1.94 1.16	*		1.04 1.26		493 75		1.03 1.14	144 28	
017	Keremeos Princeton	0.90	15	0.87	11	1.80	2	2.84	2	1.29	3		1.50			1.36	*	68	ĸ	1.14	38	
018	Golden	1.24	19	1.52	16	1.39	2	2.24	2	0.28	1		0.45		1	1.12		40	K	1.13	23	
019 020	Revelstoke Salmon Arm	0.99 1.10	18 107	0.81 1.55 *	14 83	1.25 0.88	2 6	0.96 0.74	2 6	0.26 1.12	1 17		0.16 1.39	+		1.14 0.97		54 305	K	1.10 0.90	23 112	
021	Armstrong-Spallumcheen	0.76	19	0.76	14	-	-	-	-	0.70	3		0.77			0.95		74	Z	0.84	25	
022 023	Vernon Central Okanagan	1.02 1.00	172 445	1.24 1.07	136 333	1.21 0.97	15 32	1.21 7 1.01	15 32	1.18 1.09	34 87		1.14 1.07		33 82	1.10	•	601 1,432	K	1.10 0.99	217 495	
024	Kamloops	1.15 *	296	<b>1</b> .14	225	1.51	* 32	1.51	32	1.02	51	Z	1.01		48	1.13	*	801	7	1.15	353	
025 026	100 Mile House North Thompson	1.30 2.12 *	55 23	1.71 * 2.59 *	50 19	0.63	2	1.15 2.52	2	0.88	6		1.02 1.20		6	1.19	*	134 38		1.21 1.73	70 22	
027	Cariboo-Chilcotin	2.29 *	135	2.98 *	117	0.76	4	0.52	4	1.46	18	7	1.65			1.17	*	163	ĸ	1.18	88	
028	Quesnel	1.41 *	77	1.72 *	64	1.08	5	0.87	5 3	0.74	8		0.76		8	1.34	*	187	7	1.43	* 88	
029 030	Lillooet South Cariboo	3.27 * 2.56 *	34 52	2.32 * 3.34 *	24 44	3.50 3.36	* 5	3.09 4.44	5	1.98 2.43	* 8		1.84 2.78		8	1.49 1.25		41 70		1.82 1.43	23 35	
031	Merritt	2.19 *	62	2.26 *	46	1.78	4	1.32	4	1.72	9		1.70		9	1.35	*	106		1.43	50	
032 033	Hope Chilliwack	1.94 * 0.90	45 169	2.73 * 0.94	37 134	2.48 1.39	4 20	2.44 1.42	4 20	1.36 1.49	5 * 53		0.86 1.57	*	3 52	1.64 1.25	*	117 737		1.77	* 57 * 298	
034	Abbotsford	0.78 *	214	0.82 *	176	0.96	22	0.91	22	1.11	65		1.23		64	1.03		869	7	1.03	301	
035 037	Langley Delta	0.86 *	231 156	0.78 * 0.61 *	175 111	1.15 1.16	27 23	1.13 1.16	27 23	0.80 0.65	* 30		0.88 0.65			1.11	*	868 573	K	1.05 0.90	318 219	
038	Richmond	0.38 *	158	0.29 *	110	0.44	* 16	0.34 *	16	0.39	* 35	ĸ	0.38	*	33	0.75	*	851	Z	0.67	* 311	
040 041	New Westminster Burnaby	1.43 * 0.73 *	196 342	<b>1</b> 1.17 <b>2</b> 0.49 *	154 222	0.97 0.62	12 * 25	1.23 0.54 *	12 25	1.49 0.72	* 47 * 75	K	1.56 0.65			1.23 0.95	*	489 1,294	K	1.24 0.83	* 183 * 413	
041	Maple Ridge	0.75	154	0.69 *	117	1.11	19	1.06	19	0.72	37	-3	0.82		36	1.23	*	567	K	1.17	240	
043	Coquitlam	0.61 *	254	<b>3</b> 0.55 * <b>3</b> 0.54 *	206	0.59	* 24	0.56 *	24	0.61	* 61	7	0.62			0.95	*	907	K	0.85	* 396 * 350	
044 045	North Vancouver West Vancouver-Bowen Is.	0.55 * 0.50 *	166 72	<b>3</b> 0.54 * 0.37 *	123 39	0.59	* 16 8	0.72 0.74	16 8	0.69 0.49	* 45 * 11		0.72 0.50			0.86	*	734 392	K	0.71	* 250 * 84	
046	Sunshine Coast	0.99	84	0.88	58	0.64	4	0.48	4	0.67	9		0.68			0.98		264	Z	1.08	111	
047 048	Powell River Howe Sound	1.62 * 1.34 *	91 77	2.25 * 1.37	78 65	1.46 0.81	6 5	1.69 0.61	6 5	1.98 0.96	* 18 16		1.96 0.89			1.06		186 100	K	1.08 0.97	77 53	
049	Bella Coola Valley	5.07 *	33	6.86 *	29	1.77	1	0.86	1	0.74	1		0.59		1	1.01		16		1.30	10	
050 051	Queen Charlotte Snow Country	3.66 * 2.32	38 3	2.77 * 4.35	31 3	1.00	1	2.06	1	1.30	3		1.40			1.40 1.94		32 5		1.40 1.75	17 2	
052	Prince Rupert	2.32 *	70	2.58 *	60	1.06	3	0.91	3	1.21	8		1.14		8	1.20		84	ĸ	1.08	44	
053 054	Upper Skeena Smithers	1.79 * 1.43 *	19 46	2.21 1.46	14 35	1.02 0.65	1 2	0.66 0.49	1 2	0.42 0.55	1		0.40 0.53			0.88		20 82		0.74 0.96	13 37	
055	Burns Lake	1.84 *	32	2.10 *	28	0.67	1	0.49	1	-	-		-		-	1.25		55		1.03	25	
056	Nechako Prince Goorge	2.27 *	71	7 1.94 *	54	1.44	* 20	1.48	4	1.03	7		1.09		7	1.60	*	116	<b>.</b> .	1.77	* 58 * 200	
057 059	Prince George Peace River South	1.43 * 1.45 *	277 80	1.41 * 1.76 *	226 75	1.56 1.39	* 29 7	1.48 1.48	29 7	1.00 0.25	45 + 3		0.96 0.19	+		1.32 1.14		555 147	צ	1.29	* 299 72	
060	Peace River North	1.41 *	78	1.66 *	70	0.53	3	0.57	3	0.33	* 5		0.30	*		1.32	*	145		1.39		
061 062	Greater Victoria Sooke	1.25 * 1.03	671 136	1.18 * 1.16	480 114	1.02 0.94	42 12	1.06 1.12	42 12	1.45 0.88	* 151 27		1.47 0.92			0.99		1,920 318	K	1.09 0.95	552 139	
063	Saanich	0.74 *	143	0.80	89	0.47	6	0.48 *	6	0.74	21		0.75		18	0.79	*	580	7	0.72	* 152	
064 065	Gulf Islands Cowichan	1.25 1.27 *	63 179	1.29 1.56 *	42 142	0.65	7	0.84	7	1.12 0.95	8 24		1.60 1.05			0.68		116 438	K	0.91 1.09	44 173	
066	Lake Cowichan	1.11	18	0.99	16	3.08	4	2.36	4	1.36	4		1.56		4	1.09		46		1.24	23	
067 068	Ladysmith Nanaimo	1.28 1.14 *	68 292	1.59 * 1.15	48 223	1.05 1.17	4 23	1.07 1.18	4 23	0.48 0.93	4 43	ĸ	0.56 0.83			1.23 1.05	*	216 852	K	1.23 1.12	84 342	
069	Qualicum	0.94	143	1.12	96	0.43	4	0.64	4	0.61	12	_	0.68		12	0.96		514	7	1.01	186	
070 071	Alberni Courtenay	2.19 * 1.37 *	174 226	2.65 * 7 1.18	148 160	0.96 0.55	6 7	0.74 0.39 *	6 7	0.90 0.94	13 27		0.95 0.92			1.15 0.98	*	258 488	K	1.28 0.96	108 188	
072	Campbell River	1.46 *	144	1.58 *	124	0.70	6	0.85	6	1.39	27		1.40		27	1.16	*	292	K	1.19	141	
075	Mission	1.03	86	1.20	77 10	0.65	5	1.04	5	1.35	26		1.45			1.41	*	299		1.33	* 127	
076 077	Agassiz-Harrison Summerland	1.12 0.67 *	26 24	1.71 0.88	18 17	1.80	3	1.64	3 -	2.06 0.20	8 1		2.09 0.30	+		0.95 0.94		67 131	K	1.15 0.86	37 38	
078	Enderby	1.41	29	1.66	19	2.01	3	4.07	3	1.18	4		0.70		3	1.22		78		1.53	34	
080 081	Kitimat Fort Nelson	1.17 1.41	27 13	1.18 1.64	26 13	1.41 2.72	3 3	1.04 2.68	3	0.60 0.67	3 2		0.50 0.66		3	1.35 1.97	*	65 24		1.26 1.42	36 13	
083	Central Coast	7.46 *	20	6.62 *	14	8.01	2	7.10	2	1.53	1		1.60			0.82		5		0.92	3	
084 085	Vancouver Island West Vancouver Island North	1.84	11 76	1.70 3.28 *	10 71	1.86 1.56	1 4	2.53 2.07	1	- 1.70	10		1.90		10	1.34	*	17 83		1.99	14 * 51	
087	Stikine	4.52 *	11	2.74	10	-	-	-	-	-	-		-		-	0.72		4		1.04	4	
088 092	Terrace Nisga'a	1.99 * 3.81 *	83 14	2.56 * 5.56 *	77 12	1.30	5	1.31	5	0.77 2.31	7 2		1.08 3.65			1.33 1.78	*	126 13		1.41 1.66	70 7	
094	Telegraph Creek	5.04 *	6	10.88 *	6	8.61	1	11.15	1	-	-		-		-	0.38		1		0.70	0	
161 162	Vancouver City Centre Van. Downtown E. Side	0.78 * 2.31 *	180 327	<b>u</b> 0.62 * <b>u</b> 2.34 *	152	1.39 4.40	31 * 53	1.16	31 53	1.35	* 87 * 194	K	1.10 5.63			0.98	*	536 426	K	0.94	218 * 246	
163	Vancouver North East	0.51 *	114	<b>3</b> 2.34 <b>3</b> 0.42 *	287 75	0.92	17	4.37 * 0.72	17	5.83 0.72	* 35	K	0.72	*		0.86	*	540	K	0.84		
164	Vancouver West Side	0.45 *	124	<b>3</b> 0.32 *	80	0.73	18	0.81	18	0.53	* 33	Z	0.41	*	29	0.74	*	614	Z	0.54		
165 166	Vancouver Midtown Vancouver South	0.75 * 0.50 *	129 147	<b>3</b> 0.76 * <b>3</b> 0.48 *	106 98	0.75 0.69	12 17	0.80 0.69	12 17	0.93 0.46	* 40 * 29	K	0.89 0.51			0.89 0.79	*	409 722	K K	0.89	146 * 228	
201	Surrey	0.82 *	561	0.84 *	475	1.15	75	1.08	75	1.08	180		1.07	1	78	0.99	*	1,577	7	1.02	723	
202	South Surrey/White Rock PROVINCIAL TOTAL	0.59 * <b>1.00</b>	135 <b>9,954</b>	0.56 * <b>1.00</b>	87 <b>7,658</b>	0.75 <b>1.00</b>	12 <b>831</b>	0.75 <b>1.00</b>	12 <b>831</b>	0.74 <b>1.00</b>	27 <b>2,037</b>	Z	0.84 <b>1.00</b>	1,9		0.90 <b>1.00</b>	* 2	782 <b>28,932</b>	K	0.70 <b>1.00</b>	* 190 <b>11,059</b>	
			,		,						,			,-							,	

#### Table C

## SUMMARY STATISTICS BY HEALTH SERVICE DELIVERY AREA

British Columbia, 2005-2009

Health Service Delivery Area	2009 Population		re Birth Rate		llbirth Rate <sup>2</sup>	Do	eath Rate	Infant Total	Death Rate <sup>1</sup>
,									
11 East Kootenay	79,996	3,686	9.59	19	5.13	3,106	8.08	12	3.26
12 Kootenay Boundary	79,305	3,136	8.12	24	7.59	3,684	9.54	-/	2.23
13 Okanagan	350,945	14,273	8.51	105	7.30	16,588	9.89	56	3.92
14 Thompson/Cariboo/Shush		10,015	9.24	72	7.14	8,902	8.21	48	4.79
21 Fraser East	279,993	16,571	12.22	142	8.50	10,450	7.70	59	3.56
22 Fraser North	596,647	29,733	10.32	223	7.44	17,030	5.91	87	2.93
23 Fraser South	695,983	38,243	11.44	286	7.42	20,648	6.18	152	3.97
31 Richmond	193,255	8,391	9.00	70	8.27	4,479	4.80	27	3.22
32 Vancouver	643,208	30,113	9.67	279	9.18	18,787	6.03	134	4.45
33 North Shore/Coast Gariba	ldi 277,974	11,748	8.65	96	8.11	9,611	7.07	43	3.66
41 South Vancouver Island	367,578	14,790	8.22	104	6.98	16,424	9.13	69	4.67
42 Central Vancouver Island	261,476	10.967	8.62	103	9.30	12.096	9.51	62	5.65
43 North Vancouver Island	120,315	5.242	8.96	40	7.57	4.578	7.83	20	3.82
51 Northwest	75,007	4,495	11.93	40	8.82	2.326	6.17	21	4.67
52 Northern Interior	142.581	8.313	11.74	71	8.47	4.466	6.31	33	3.97
53 Northeast	67.905	4,997	15.11	34	6.76	1.666	5.04	20	4.00
Provincial Total	4,455,207	214,744		1,708		154,885	7.17	850	3.96

		Low B	Sirth Wt.					Tee	nage	Elc	lerly
		Live	Birth	Ce	sarean	Pre	-term	Mo	ther	Gra	vida
He	ealth Service Delivery Area	Total	Rate	Total	Rate <sup>1</sup>	Total	Rate <sup>1</sup>	Total	Rate <sup>1</sup>	Total	Rate <sup>1</sup>
11 12 13 14 21 22 23 31 32	East Kootenay Kootenay Boundary Okanagan Thompson/Cariboo/Shushwap Fraser East Fraser North Fraser South Richmond Vancouver	211 152 730 556 841 1,747 2,364 467 1,835	57.24 48.47 51.15 55.52 50.75 58.76 61.82 55.65 60.94	1,113 771 4,289 3,326 4,642 9,461 12,257 2,631 8,943	301.95 245.85 300.50 332.10 280.13 318.20 320.50 313.55 296.98	268 198 1,041 820 1,227 2,275 2,911 582 2,423	72.71 63.14 72.93 81.88 74.05 76.51 76.12 69.36 80.46	220 110 629 595 756 437 819 58 358	59.69 35.08 44.07 59.41 45.62 14.70 21.42 6.91 11.89	526 549 2,337 1,373 2,152 8,315 7,439 2,622 10,545	142.70 175.06 163.74 137.09 129.87 279.66 194.52 312.48 350.18
33 41 42 43	North Shore/Coast Garibaldi South Vancouver Island Central Vancouver Island North Vancouver Island	595 747 591 269	50.65 50.51 53.89 51.32	3,717 5,089 2,955 1,466	316.39 344.08 269.44 279.66	874 1,127 982 355	74.40 76.20 89.54 67.72	273 416 680 353	23.24 28.13 62.00 67.34	3,917 3,516 1,755 820	333.42 237.73 160.03 156.43
51 52 53	Northwest Northern Interior Northeast Provincial Total	206 453 211 <b>11.976</b>	45.83 54.49 42.23 <b>55.77</b>	1,197 2,323 1,446 <b>65.634</b>	266.30 279.44 289.37 <b>305.64</b>	339 570 241 <b>16.236</b>	75.42 68.57 48.23 <b>75.61</b>	454 606 381 <b>7,149</b>	101.00 72.90 76.25 <b>33.29</b>	585 970 491 <b>47.918</b>	130.14 116.68 98.26 <b>223.14</b>

#### Table D

#### MORTALITY STATISTICS BY HEALTH SERVICE DELIVERY AREA

British Columbia, 2005-2009

				0	1					02							03						04		- 1
			All C	auses	of Death				All Ca	nce	r Sites	3				Lung	Cancer				Er	nd/Nut/N	∕let.	<u>Disease</u>	3
	Health Service Delivery Area	SMR (	<ul><li>p) Death</li></ul>	TR	PYLLI (p)	D<75	SMR	(p)	Death '	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI (p	D<75
11	East Kootenay	1.07	* 3,106	K	1.07	1,218	0.98		829		0.96		444	1.02		228	0.99		130	1.17		142		0.94	49
12	Kootenay Boundary	1.12	* 3,684	7	1.15 *	1,411	1.06		996	7	1.09		541	0.92		228	1.01		148	1.09		150		0.90	52
13	Okanagan	1.03	* 16,588	7	1.09 *	5,486	1.05	*	4,715		1.05		2,201	1.09	*	1,281	1.12	*	677	1.02		691	7	1.06	210
14	Thompson/Cariboo/Shushwap	1.14	* 8,902	7	1.30 *	4,031	1.05	*	2,459	7	1.05		1,383	1.17	*	729	1.21	*	440	1.17	*	384	7	1.18	161
21	Fraser East	1.09	* 10,450	7	1.14 *	3,989	1.07	*	2,831	Z	1.11	*	1,477	1.06		732	1.16	*	447	1.19	*	467	7	1.24	179
22	Fraser North	0.98	* 17,030	7	0.82 *	6,255	1.00		4,866	Z	0.94	*	2,502	1.05		1,319	<b>u</b> 0.97		716	0.94		661		0.89	253
23	Fraser South	0.99	20,648	7	0.93 *	7,764	0.97	*	5,724	7	0.98		3,038	0.92	*	1,415	<b>3</b> 0.92	*	797	1.01		863	7	1.00	310
31	Richmond	0.73	* 4,479	7	0.59 *	1,539	0.80	*	1,377	7	0.79	*	722	0.77	*	345	<b>u</b> 0.70	*	188	0.76	*	190		0.56 *	73
32	Vancouver	0.91	* 18,787	7	0.93 *	7,016	0.89	*	5,014	7	0.90	*	2,466	0.84	*	1,212	0.80	*	609	0.82	*	690		0.81 *	242
33	North Shore/Coast Garibaldi	0.92	* 9,611	ĸ	0.82 *	3,178	0.92	*	2,692	ĸ	0.87	*	1,331	0.75	*	571	<b>3</b> 0.72	*	324	0.81	*	348		0.66 *	114
41	South Vancouver Island	0.96	* 16,424	7	0.97	4,795	0.99		4,457	Z	1.01		1,969	0.92	*	1,047	<b>3</b> 0.96		496	0.86	*	604		1.09	199
42	Central Vancouver Island	1.05	* 12,096	7	1.21 *	4,578	1.08	*	3,567	Z	1.12	*	1,828	1.11	*	968	1.16	*	538	1.09		525	7	1.11	187
43	North Vancouver Island	1.08	* 4,578	7	1.20 *	2,062	1.10	*	1,391	Z	1.16	*	795	1.26	*	422	1.25	*	247	1.14		202		1.03	78
51	Northwest	1.26	* 2,326	7	1.37 *	1,274	1.15	*	657		1.12		406	1.29	*	196	1.17		133	1.64	*	125	7	1.60 *	69
52	Northern Interior	1.25	* 4,466	7	1.30 *	2,364	1.25	*	1,374		1.24	*	876	1.56	*	454	1.49	*	295	1.64	*	242	7	1.82 *	128
53	Northeast	1.21	* 1,666	7	1.28 *	922	1.22	*	503		1.22	*	339	1.28	*	139	1.41	*	103	1.51	*	84		1.15	34
	Provincial Total	1.00	154,885	7	1.00	57,924	1.00	4	3,455	Z	1.00		22,321	1.00		11,287	1.00		6,289	1.00		6,369	7	1.00	2,338

				05			l			06			ı				07			1				08		1
			[	Diabetes					Circula	tory	Syste	m			Isch	hemic F	leart	Disea	ses		Cer	ebro	ovascula	ır Di	iseases/S	troke
	Health Service Delivery Area	SMR (p)	Death	TR PYL	LI (p)	D<75	SMR	(p)	Death	TR	PÝLLI	(p)	D<75	SMR	(p)	Death	TRF	YLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI (p)	D<75
11	East Kootenay	1.19	114	7 0.9	}	38	1.05		937	K	0.90		228	0.97		407	K	1.01		124	0.93		195	Z	0.61 *	32
12	Kootenay Boundary	1.15	125	0.7	3	38	1.20	*	1,241	ĸ	1.17	*	306	1.24	*	597	ĸ	1.14		161	1.18	*	290	7	1.14	58
13	Okanagan	1.02	549	7 0.9	ļ	153	1.00		5,233	ĸ	1.02		1,051	0.94	*	2,265	ĸ	0.95		537	0.99		1,245	7	1.12	205
14	Thompson/Cariboo/Shushwap	1.19 *	309	7 1.2	ļ	129	1.10	*	2,582	ĸ	1.19	*	805	1.09	*	1,216	ĸ	1.30	*	482	1.05		580	7	1.04	133
21	Fraser East	1.21 *	374	7 1.3	*	140	1.11	*	3,308	Z	1.13	*	773	1.18	*	1,640	7	1.23	*	439	0.97		692	7	1.18	147
22	Fraser North	0.93	515	0.9	3	194	1.02		5,376	Z	0.91	*	1,239	1.14	*	2,785	7	0.94		679	0.97		1,212	7	1.00	254
23	Fraser South	1.01	677	7 0.9	6	236	1.03	*	6,553	Z	0.99		1,525	1.13	*	3,325	7	1.11	*	911	0.99		1,496	7	0.90	257
31	Richmond	0.80 *	157	0.6	*	59	0.73	*	1,362	Z	0.59	*	278	0.76	*	657	7	0.54	*	144	0.83	*	370	ĸ	0.66 *	61
32	Vancouver	0.80 *	524	0.8	3	183	0.86	*	5,567	Z	0.98		1,337	0.81	*	2,396	7	0.86	*	649	0.96		1,488	ĸ	1.01	274
33	North Shore/Coast Garibaldi	0.81 *	273	0.6	3 *	83	0.98		3,211	Z	0.86	*	639	0.92	*	1,391	7	0.83	*	341	1.16	*	904	ĸ	0.81 *	121
41	South Vancouver Island	0.82 *	452	7 0.9	6	137	0.96	*	5,457	Z	0.94		880	0.90	*	2,320	7	0.88	*	452	0.95		1,316	7	1.00	165
42	Central Vancouver Island	1.11 *	428	7 1.10	)	152	1.02		3,723	Z	1.11	*	849	1.03		1,757	7	1.06		451	0.97		838	7	1.09	149
43	North Vancouver Island	1.14	159	1.0	3	58	1.05		1,331	7	1.12		408	0.93		563	7	1.03		202	1.20	*	357	7	1.28	87
51	Northwest	1.81 *	108	7 1.7	*	56	1.24	*	629	Z	1.37	*	255	1.24	*	304	7	1.47	*	155	1.10		127	7	1.41	40
52	Northern Interior	1.58 *	183	<b>7</b> 1.6	7 *	94	1.19	*	1,193	Z	1.16	*	430	1.08		522	7	1.15		221	1.28	*	294		1.17	88
53	Northeast	1.62 *	70	1.2	ļ	27	1.13	*	421	K	1.09		149	1.16	*	208	ĸ	1.22		85	0.96		81		0.64 *	26
	Provincial Total	1.00	5,018	7 1.0	)	1,777	1.00	4	48,129	Z	1.00		11,156	1.00	2	22,355	Z	1.00		6,035	1.00		11,486	ĸ	1.00	2,097

		l		09	9		I			10							11			1				12			1
		1A	teries/Art	eriole	s/Capil	llaries			Respira	itory	Syste	em			Pne	umonia	a an	d Influ	enza			С	hronic L	ung	Diseas	е	
	Health Service Delivery Area	SMR (p	) Death	TR	PYLLI (	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI (p	(د	D<75
-11	East Kootenay	1.32 *	63		0.84	20	1.14	*	354		1.19		108	0.78	*	94		0.69		17	1.46	*	188		1.62	k	63
12	Kootenay Boundary	1.39 *	76		2.41	* 28	0.94		337		1.25		89	0.70	*	99	ĸ	1.11		25	1.25	*	185		1.13		45
13	Okanagan	1.11	305	ĸ	0.88	74	0.97		1,775	Z	1.11		363	0.94		681	ĸ	1.27		104	1.04		786		1.09		184
14	Thompson/Cariboo/Shushwap	1.25 *	159	ĸ	1.24	53	1.05		862	Z	1.18		267	0.85	*	262	ĸ	1.32		66	1.31	*	452	Z	1.32	k	154
21	Fraser East	0.98	154	ĸ	1.05	41	1.25	*	1,306		1.34	*	312	1.37	*	567		1.23		90	1.27	*	544		1.54	k	163
22	Fraser North	0.76 *	210	ĸ	0.93	66	1.08	*	1,969	7	0.75	*	379	1.09	*	790	Z	0.64	*	96	1.03		761	Z	0.86		187
23	Fraser South	1.04	349	ĸ	0.69	* 79	1.03		2,259		0.86	*	480	1.18	*	1,022		0.95		163	0.95		850	Z	0.79	k	212
31	Richmond	0.52 *	51		0.56	* 14	0.81	*	527	7	0.42	*	90	0.79	*	202	7	0.19	*	19	0.72	*	190	Z	0.43	k	40
32	Vancouver	0.88 *	293		0.94	89	1.00		2,228	7	1.17	*	475	1.13	*	1,020	7	1.34	*	178	0.76	*	682	Z	1.02		173
33	North Shore/Coast Garibaldi	0.92	158		0.69	* 40	0.90	*	1,026	7	0.68	*	177	1.08		489	7	0.91		64	0.74	*	340	Z	0.52	k	70
41	South Vancouver Island	0.94	272	ĸ	1.02	62	0.84	*	1,662	7	0.95		286	0.71	*	579	7	0.90		74	0.93	*	719	7	0.87		134
42	Central Vancouver Island	1.11	215	ĸ	1.15	69	0.96		1,224	7	1.16		296	0.92		457	7	1.19		78	0.99		524	Z	1.02		149
43	North Vancouver Island	1.28 *	88		1.41	38	0.95		420	7	1.17		124	0.71	*	120	7	1.04		25	1.12		208		1.19		62
51	Northwest	0.92	26		1.19	13	1.21	*	212		1.22		73	1.01		65	Z	1.10		14	1.25	*	93		1.10		34
52	Northern Interior	1.59 *	88		1.91	* 44	1.20	*	417	7	1.36	*	154	0.94		122	7	0.90		34	1.47	*	215		1.81	k	80
53	Northeast	1.16	24		1.69	11	1.19	*	154	Z	0.87		48	1.01		49		0.61		11	1.50	*	81		1.19		30
	Provincial Total	1.00	2,531	Z	1.00	741	1.00		16,735	7	1.00		3,724	1.00		6,620	Z	1.00		1,060	1.00		6,819	7	1.00	1	1,781

### Table D (cont'd)

#### MORTALITY STATISTICS BY HEALTH SERVICE DELIVERY AREA

British Columbia, 2005-2009

			Digest	13 ive Svstem			Mo	tor Veh	14	Accid	anto	,			Uninter	15	al Fall	c				Q	16 uicid	۵		
	Health Service Delivery Area	SMR (p)	Death	TR PYLLI (p)	D<75	SMR	(p)	Death			(p)	D<75	SMR	(p)			PYLLI		D<75	SMR	(p)	Death		e PYLLI (	(p)	D<75
11 12 13		0.93 1.22 * 1.00	113 168 661	0.77 0.93 1.18 *	52 67 259	1.83 1.68 1.34	* *	59 55 195		1.88 1.68 1.45	* * *	48 48 164	1.52 1.68 1.09	*	50 64 208	ĸ	1.10 1.89 0.96		14 19 40	1.28 1.16 1.09		51 47 190	ĸ	1.18 1.03 1.21	*	46 41 174
14	Thompson/Cariboo/Shushwap	1.38 *	455	1.55 *	237	2.18	*	199	7	2.23	*	184	1.21		105		0.88		27	1.16		130	7	1.27	*	124
22	Fraser East Fraser North	1.05 0.99	410 718	1.17 0.78 *	206 299	1.20 0.74	*	136 180	Я	1.24 0.75	*	120 166	0.90 0.86		100 172	ĸ	1.17 0.67	*	30 44	0.98 0.83	*	130 244	K	1.01 0.75	*	122 227
23		0.94	817	0.90	346	0.88	*	243	7	0.84	*	212	0.82	*	195		0.86	_	60	0.79	*	260	7	0.76	*	244
31 32		0.72 * 0.89 *	184 762	<b>3</b> 0.55 * <b>3</b> 0.88 *	63 322	0.45	*	36 122	K	0.43	*	26 91	0.48	*	34 202	K	0.34	*	62 62	0.65	*	62 338	Ŋ	0.56	×	55 316
33 41	North Shore/Coast Garibaldi South Vancouver Island	0.92	401 649	0.76 * 0.99	149 231	0.78	*	90 87		0.87	*	83 71	0.84 1.25	*	102 262	K	1.53 0.98		31 50	0.91		127 186	N	0.87 1.02		113 159
42 43	Central Vancouver Island	1.06	504 211	1.36 * 1.16	252 106	1.23 1.36	*	134 66	7	1.47	*	112 57	1.06		141 58	7	1.01		31 20	1.29 1.57	*	171 95	٦ آ	1.38	*	145 89
51	Northwest	1.46 *	117	1.47 *	78	1.49	*	45		1.28		41	1.91	*	37		2.23		18	1.62	*	60		2.15	*	58
52 53		1.31 * 0.92	202 54	1.34 * 0.99	113 35	1.81 2.96	*	105 80	Z	1.82 3.29	*	99 77	1.36 0.82	*	52 12		0.94 0.59		15 4	1.23		87 32		1.27 1.03		79 30
	Provincial Total	1.00	6,429	1.00	2,818	1.00		1,834	Z	1.00		1,601	1.00		1,794	7	1.00		473	1.00		2,212	7	1.00	- 1	2,024

			المجامعا ا	17	مالت مالد			4 a al:	18					Б.	اممالين	19	41		, ا	·	l.: A44	20	ahla Da	-41	
					d Deaths				cally Trea					( )		uced D					king-Att				<u></u>
	Health Service Delivery Area	SMR (p)	Death	IRP	YLLI (p)	D<75	SMR	(p)	Death TR	PYLLI	(p) I	D<75	SMR	(p)	Death	TRPYL	.LI (ı	o) D<75	SMR	(p)	Death	IK	PYLLI (p	o) D<7	5
11	East Kootenay	1.28 *	249		1.19	182	0.90		14	0.95		14	0.72		26	0.	76	26	1.07		597	7	0.99	242	!
12	Kootenay Boundary	1.61 *	333		1.67 *	237	1.07		17	1.25		17	0.85		31	0.	84	29	1.06		663	7	1.07	273	j.
13	Okanagan	1.09 *	995		1.21 *	732	1.04		67	1.12		67	1.15		175	1.	14	164	1.04	*	3,211	ĸ	1.06	1,117	,
14	Thompson/Cariboo/Shushwap	1.44 *	782		1.64 *	622	1.38	*	60	1.36		60	1.15		116	1.3	22	113	1.13	*	1,712	K	1.16	* 778	ļ.
21	Fraser East	0.91 *	540		1.01	442	1.12		54	1.15		54	1.30	*	157	1.3	38	152	1.17	*	2,089	ĸ	1.23	* 820	)
22	Fraser North	0.79 *	946	7	0.62 *	699	0.72	*	80	0.70	*	80	0.79	*	220	<b>u</b> 0.	77	213	1.03		3,257	ĸ	0.94	1,232	1
23	Fraser South	0.77 *	1,083		0.76 *	848	1.10		137	1.06		137	0.92		283	0.	95	275	0.98		3,800	Z	0.96	1,450	)
31	Richmond	0.38 *	158		0.29 *	110	0.44	*	16	0.34	*	16	0.39	*	35	<b>u</b> 0.	38	33	0.75	*	851	ĸ	0.67	* 311	
32	Vancouver	0.76 *	1,022	7	0.70 *	799	1.26	*	148	1.20		148	1.33	*	419	<b>1</b> .1	24	411	0.86	*	3,250	ĸ	0.89	* 1,187	,
33	North Shore/Coast Garibaldi	0.83 *	543	Z	0.87 *	406	0.77		42	0.79		42	0.79	*	101	0.	79	95	0.87	*	1,697	ĸ	0.77	* 588	ļ,
41	South Vancouver Island	1.11 *	1,013		1.11 *	725	0.85		60	0.93		60	1.21	*	207	1.3	26 '	194	0.93	*	2,934	ĸ	0.98	886	j
42	Central Vancouver Island	1.25 *	874		1.45 *	673	0.94		48	0.98		48	0.86		100	<b>u</b> 0.	87	93	1.05	*	2,325	ĸ	1.12	* 916	j
43	North Vancouver Island	1.55 *	457		1.56 *	365	0.74		18	0.78		18	1.16		64	1.	18	63	1.08	*	880	ĸ	1.14	* 394	ļ
51	Northwest	2.02 *	317		2.28 *	274	1.09		16	1.05		16	0.81		28	0.	90	28	1.24	*	432	ĸ	1.19	229	)
52	Northern Interior	1.54 *	457	7	1.56 *	372	1.42	*	39	1.34		39	0.91		60	0.	89	59	1.35	*	912	ĸ	1.35	* 470	)
53	Northeast	1.43 *	171		1.70 *	158	1.10		13	1.15		13	0.33	*	10	0.	30	10	1.26	*	316	ĸ	1.24	* 165	j
	Provincial Total	1.00	9,954	7	1.00	7,658	1.00		831	1.00		831	1.00		2,037	<b>ਪ</b> 1.	00	1,963	1.00		28,932	ĸ	1.00	11,059	)

#### Table E

#### SUMMARY STATISTICS BY HEALTH AUTHORITY

British Columbia, 2005-2009

	Health Authority	2009 Population	Liv Total	e Birth Rate	Still Total	lbirth Rate <sup>2</sup>	D	eath Rate	Infant I	Death Rate <sup>1</sup>
01 02 03	Interior Fraser Vancouver Coastal	733,285 1,572,623 1,114,437	31,110 84,547 50,252	8.81 11.15 9.30	220 651 445	7.02 7.64 8.78	32,280 48,128 32,877	2.90 3.71 3.63	123 298 204	3.95 3.52 4.06
04 05	Vancouver Island Northern Provincial Total	749,369 285,493 <b>4,455,207</b>	30,999 17,805 <b>214,744</b>	8.48 12.58 <b>9.95</b>	247 145 <b>1,708</b>	7.91 8.08 <b>7.89</b>	33,098 8,458 <b>154,885</b>	6.53 5.98 <b>7.17</b>	151 74 <b>850</b>	4.87 4.16 <b>3.96</b>

		Low B	irth Wt.					Tee	nage	Eld	erly
		Live	Birth	Ce	sarean	Pre-	-term	Mo	ther	Gra	vida
	Health Authority	Total	Rate <sup>1</sup>	Total	Rate <sup>1</sup>	Total	Rate <sup>1</sup>	Total	Rate <sup>1</sup>	Total	Rate <sup>1</sup>
01	Interior	1,649	53.01	9,499	305.34	2,327	74.80	1,554	49.95	4,785	153.81
02	Fraser	4,952	58.57	26,360	311.78	6,413	75.85	2,012	23.80	17,906	211.79
03	Vancouver Coastal	2,897	57.65	15,291	304.29	3,879	77.19	689	13.71	17,084	339.97
04	Vancouver Island	1,607	51.84	9,510	306.78	2,464	79.49	1,449	46.74	6,091	196.49
05	Northern	870	48.86	4,966	278.91	1,150	64.59	1,441	80.93	2,046	114.91
	Provincial Total	11,976	55.77	65,634	305.64	16,236	75.61	7,149	33.29	47,918	223.14

Note: Total is the number of events in the specified category for the five year time period.

Infant Death - deaths of children under one year of age.

Low Birth Weight live births - live births with birth weight <2,500 grams.

Cesarean - live births delivered by cesarean section.

Pre-term - live births with gestational age <37 weeks.

Teenage Mother - live births to mothers under 20 years of age.

Elderly Gravida - live births to mothers 35 years of age or older.

Death is the total number of deaths from the specified cause for the five year period.

D<75 is the number of deaths under 75 years of age from the specified cause.

SMR - Standardized Mortality Ratio.

PYLLI - Potential Years of Life Lost Index.

Rate - per 1,000 population in the specified area.

Rate<sup>1</sup> - rate per 1,000 live births in the specified area.

Rate<sup>2</sup> - per 1,000 total births in the specified area.

SMR, PYLLI, and Rate are based on the five year period ending with the current year.

- \* Statistical testing indicates that observed deaths are statistically different from the expected deaths (p<0.05, two tailed).
- + Denotes statistical significance based on less than five cases.
- TR Trend in ASMR based on single year rates for the previous 15 years:
- ndicates a statistically significantly positive (icreasing) trend, and
- u indicates a statistically significantly negative (decreasing) trend.

Trends shown in previous annual reports were based on three year moving averages and should not be compared to the trends in these tables.

TR\* - Trend reflects change in *Medical Certification of Death* introduced in 1993. The revised form contained questions about lifestyle factors including abuse of alcohol, which resulted in increased reporting of deaths indirectly related to alcohol.

HSDA 32 Vancouver may include unspecified Vancouver addresses.

N.S. - Not Stated.

Non-residents are excluded.

# TABLE F MORTALITY STATISTICS BY HEALTH AUTHORITY

British Columbia, 2005-2009

		1		01					02	2						03						04		
			All Ca	uses	of Death	1		All C	anc	er Sites	3				Lung	g Ca	ncer			Er	nd/Nut/N	∕let.	Diseases	j
	Health Authority	SMR (	p) Death	TR	PYLLI (p)	D<75	SMR	(p) Death	1 TR	PYLLI	(p)	D<75	SMR	(p)	Death	TRI	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI (p)	D<75
01	Interior	1.07	* 32,280	7	1.16 *	12,146	1.04	* 8,999	Z	1.04	*	4,569	1.08	*	2,466		1.12	* 1,395	1.08	*	1,367	7	1.07	472
02	Fraser	1.01	48,128	7	0.93 *	18,008	1.00	13,421	Z	0.99		7,017	1.00		3,466	Z	0.98	1,960	1.02		1,991		1.00	742
03	Vancouver Coastal	0.88	* 32,877	7	0.84 *	11,733	0.89	* 9,083	N N	0.87	*	4,519	0.81	*	2,128	7	0.76	* 1,121	0.81	*	1,228		0.73 *	429
04	Vancouver Island	1.01	33,098	7	1.09 *	11,435	1.04	* 9,415	N N	1.08	*	4,592	1.04		2,437	7	1.08	* 1,281	0.98		1,331	7	1.09	464
05	Northern	1.24	* 8,458	Z	1.31 *	4,560	1.22	* 2,534		1.20	*	1,621	1.43	*	789		1.38	* 531	1.61	*	451	7	1.61 *	231
	Provincial Total	1.00	154.885	ĸ	1.00	57.924	1.00	43,455	K	1.00		22.321	1.00		11.287	ĸ	1.00	6.289	1.00		6.369	7	1.00	2.338

			[	05 Diabetes			Circulat	06 ory	Syste	m			Isch	nemic H	07 lear	t Disea	ases	Ce	rebr	ovascul	08 ar D	)isease/St	roke
	Health Authority	SMR (p)	Death	TR PYLLI (p)	D<75	SMR	(p) Death 7	ΓR	PÝLLI	(p)	D<75	SMR	(p)	Death	TRI	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI (p)	D<75
01	Interior	1.10 *	1,097	7 1.01	358	1.05	0,000	7	1.08	*	2,390	1.01		4,485	Z		* 1,304	1.02		2,310	7	1.04	428
02	Fraser	1.02	1,566	1.02	570	1.04	.0,=0.		0.00		3,537	1.14	*	7,750	7	1.07	* 2,029	0.98		3,400	7	0.99	658
03	Vancouver Coastal	0.80 *	954	0.78 *	325	0.88	* 10,140	Z	0.88	*	2,254	0.83	*	4,444	Z	0.80	* 1,134	1.00		2,762	Z	0.89	456
04	Vancouver Island	0.97	1,039	<b>7</b> 1.03	347	0.99	10,511	7	1.03		2,137	0.95	*	4,640	7	0.97	1,105	0.98		2,511	7	1.08	401
05	Northern	1.65 *	361	<b>7</b> 1.59 *	177	1.19	* 2,243	7	1.20	*	834	1.14	*	1,034	7	1.25	* 461	1.17	*	502	7	1.12	154
	Provincial Total	1.00	5,018	<b>7</b> 1.00	1,777	1.00	48,129	Z	1.00		11,156	1.00		22,355	Z	1.00	6,035	1.00		11,486	ĸ	1.00	2,097

		ı			09						10	)		1				11			1				12		1
			Arte	ries/Arte	eriole	s/Capillarie	es			Respira	tory	/ Syste	em			Pne	umonia	and	d Influ	enza			С	hronic L	ung	Disease	
	Health Authority	SMR	(p)	Death	TR	PYLLI (p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TRI	PYLLI	(p) D	<75	SMR	(p)	Death	TR	PYLLI (p)	D<75
01	Interior	1.20	*	603	K	1.16	175	1.00		3,328	Z	1.16	*	827	0.88	*	1,136	Z	1.20		212	1.17	*	1,611		1.22 *	446
02	Fraser	0.93	*	713	Z	0.85	186	1.09	*	5,534	7	0.90	*	1,171	1.19	*	2,379		0.88	;	349	1.05	*	2,155	Z	0.95	562
03	Vancouver Coastal	0.83	*	502		0.80 *	143	0.94	*	3,781	7	0.91	*	742	1.07	*	1,711	7	1.03	:	261	0.75	*	1,212	Z	0.77 *	283
04	Vancouver Island	1.04		575	Z	1.14	169	0.90	*	3,306	Z	1.06		706	0.78	*	1,156	7	1.02		177	0.97		1,451	Z	0.98	345
05	Northern	1.32	*	138		1.66 *	68	1.20	*	783	7	1.22	*	275	0.97		236	7	0.89		59	1.41	*	389		1.49 *	144
	Provincial Total	1.00		2.531	K	1.00	741	1.00		16.735	ĸ	1.00		3.724	1.00		6.620	ĸ	1.00	1.0	060	1.00		6.819	Z	1.00	1.781

			Diges	13 stive System			Мо	tor Ve	14 hicle	Accid	lents	,			Uninter	15 ition	al Fall	s				Sı	16 uicid	e	
	Health Authority	SMR (p)	Death	TR PÝLLI (p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p) I	D<75	SMR	(p)	Death	TR	PYLLI (p	) D<75
01	Interior	1.12 *	1,397	1.22 *	615	1.69	*	508	7	1.77	*	444	1.23	*	427	7	1.06		100	1.14	*	418	7	1.21 *	385
02	Fraser	0.98	1,945	<b>u</b> 0.90 *	851	0.88	*	559	7	0.87	*	498	0.85	*	467	7	0.84		134	0.84	*	634	7	0.80 *	593
03	Vancouver Coastal	0.87 *	1,347	<b>≥</b> 0.79 *	534	0.53	*	248	7	0.47	*	200	0.78	*	338	7	1.02		101	0.93		527	7	0.88 *	484
04	Vancouver Island	1.01	1,364	1.15 *	589	0.91		287	7	0.97		240	1.18	*	461	7	1.16		101	1.18	*	452	ĸ	1.26 *	393
05	Northern	1.27 *	373	1.30 *	226	2.00	*	230	7	2.04	*	217	1.40	*	101	7	1.21		37	1.28	*	179		1.44 *	167
	Provincial Total	1.00	6,429	1.00	2,818	1.00		1,834	7	1.00		1,601	1.00		1,794	7	1.00		473	1.00		2,212	7	1.00	2,024

			Alcohol-	17 Related Deatl	าร		1 Medically Trea	8 atable Dis	sease		Drua-li	19 nduced Deat	hs	20 Smoking-Attributable Mortality						
	Health Authority	SMR (p)	Death	TR PYLLI (p)	D<75	SMR	(p) Death TR	PYLLI (	(p) D<75	SMR		h TR PYLLI	(p) D<75		1 - 1					
01	Interior	1.27 *	2,359	1.39 *	1,773	1.13	158	1.19	158	1.07	34	8 1.09	332	1.07	* 6,184	<b>1</b> .08 * 2,409				
02	Fraser	0.80 *	2,569	0.75 *	1,989	0.96	271	0.94	271	0.94	66	0.95	640	1.04	* 9,147	<b>1</b> .00 3,501				
03	Vancouver Coastal	0.72 *	1,723	<b>u</b> 0.67 *	1,315	0.99	206	0.95	206	1.04	55	5 <b>¥</b> 1.00	539	0.85	* 5,798	<b>3</b> 0.82 * 2,086				
04	Vancouver Island	1.23 *	2,344	1.30 *	1,763	0.86	126	0.92	126	1.08	37	1 🗓 1.12	350	0.99	6,140	<b>1</b> .06 * 2,195				
05	Northern	1.65 *	945	1.78 *	804	1.26	68	1.22	68	0.75	* 9	8 0.75	* 97	1.30	* 1,660	<b>1</b> 1.28 * 864				
	Provincial Total	1.00	9,954	<b>3</b> 1.00	7,658	1.00	831	1.00	831	1.00	2,03	7 🛂 1.00	1,963	1.00	28,932	<b>1.00</b> * 11,059				

