

Birth-related Statistics



Birth Introduction

After a baby is born everyone asks about the baby's gender and weight and the condition of the mother and newborn. The same questions are important with regard to births in populations and they are the subject matter in this part of the 2005 Annual Report.

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, but all have been shown to relate in varying degrees to birth outcomes. The tables refer to live births although in some cases stillbirths are also included. The mother's usual residence was used to identify geographic location, not the place where the birth occurred.

Births – General Indicators

Certain birth and parental characteristics that have been shown to be related to outcome or are of general interest and they are presented in this section. These characteristics include age of mother, age of father, kind of birth (single, twin, or other multiple), Local Health Area of usual residence, and mode of delivery.

Table 7 shows the number of live births that were delivered by women at each age. In other words, the columns indicate the number of live born babies that mothers have had up to 2005 including the present one. See also Birth Order in the Glossary. Of course, second, third, and subsequent live births tend to have been delivered to progressively older woman. Over 80% of 2005 live births were first or second births.

Table 7 can also be used to calculate the average age of mothers who gave birth in 2005. The average was 29.9 for all live births, 28.4 years for first live births, 30.8 years for second live births, and 31.9 years for three or more live births.

Additional calculations using the data in Table 7 showed that stillbirth rates were almost flat across maternal age groups less than 40 years old. Mothers between 25 and 29 and between 30 and 34 years of age had the lowest stillbirth rates (6.40 and 6.82 per 1,000 total births respectively), followed by mothers between 35 and 39 years old (7.80 per 1,000 total births). Mothers between 20 and 24 and teenagers each had somewhat higher rates (8.06 and 8.26 per 1,000 respectively), but mothers 40 years and older had the highest rate at 20.83 per 1,000 total births.

Table 8 shows the number of live births in B.C. in 2005 cross tabulated by the age of mother and the age of father. It also has a line at the bottom showing the percentage of each column's births that occurred to couples who were not formally married to each other. The Percent row below TOTAL shows the percentage of live births to each age group of mothers. Likewise, the Percent column on the right of the table shows the percentage of live births to fathers in the various age groups.

Half of the births (50.1%) in 2005 were to mothers 30 to 39 years old and 42.6% were to mothers in their twenties (see Table 8). Only 3.2% were to mothers less than 20 years and 4.0% to those 40 or older. For fathers, almost half (49.5%) were in their thirties, a quarter (25.1%) were in their twenties, 12.6% were in their forties or older and 0.8% were less than 20 years old. In 11.9% of births the father's age was not indicated.

Less than 1% (0.7%) of births (269) were to couples who were both in their teens; births to couples in which only one was a teen made up 2.8% (1,138) of all births and the mother was the teen for almost all of these (93.5%) as shown in Table 8. While there were only 64 births (0.2%) to mothers over 44 years old, 3.6% (1,461) of newborns had fathers over that age.

Table 8 also shows, for each age range of mothers, the number of infants born to couples who were not formally married to each other (Out-of-Wedlock). While this might once have been an indicator of unstable family structure, this is now more a point of interest than an indicator of social dysfunction.

In general, the greatest potential value of Table 8 lies in its showing the incidence of live births to individuals at the upper and lower extremes of the age ranges.

Table 9 shows the number of births where a single baby was delivered, the number of births that were twin deliveries, and the number that were triplets or more according to the mother's age group. You should be aware that multiple births are not counted as instances of multiple birth deliveries but rather as the number of live born babies delivered in each kind of delivery. The table confirms that the likelihood of a multiple pregnancy increases with maternal age. In 2005, 4.2% of births to mothers 35 years and older were multiple live births; whereas, 2.9% of births to mothers aged 20 to 34 were multiples and teenagers had the lowest proportion (1.2%). Although older mothers had more multiple births than younger ones in 2005, we cannot conclude that a woman's likelihood of having a twin or triplet will increase as she grows older.

In recent decades there has been a gradual increase in multiple birth rates in British Columbia (see Figure 7). The proportions of multiple live births increased from 1.9% of all live births in 1986 to 3.1% in 2005., but most deliveries (96.9%) are still singletons.

Table 10 shows 2005 fertility rates in the Local Health Area (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 2000-2004 and the fertility rate for that age group.

The columns in Table 10 (from left to right) show the number and name of the Local Health Area (with a B.C. total line), the number of live births that occurred (Observed) to 15-19 year olds over the years 2000-2004, and the age specific fertility rate (ASFR) in the same age group and time period. The ASFRs in 2005 are shown for six age ranges as well as the Total Fertility Rate or TFR, a measure of the potential effect of the current fertility rates on family size. After the ASFR for 2000-2004 and the TFR for 2005 there is a column labelled (p) which indicates the results of a statistical test of significance. For the definition of the Age Specific Fertility Rate (ASFR) and Total Fertility Rate (TFR) see the Glossary. For computational descriptions of both rates see Fertility Rates in the Methodology section, which also provides an example of the statistical test of significance.

An area's fertility rate is affected by the age distribution of its population. As seen in Table 10, live birth fertility rates for 2005 reached a peak between the ages of 25 and 34 years; areas where the age distribution is skewed away from that age range (either more younger or more older people) will have a lower proportion of individuals in the most fertile part of life.

Fertility rates are one determinant of an area's population increase or decrease. If the average number of children born to each woman in an area falls below 2.1, the total population will begin to decline unless there is sufficient counterbalancing population increase from in-migration.

The focus on teenage fertility in this table is due to the potentially disruptive effects of pregnancy and birth on young women and to possible adverse outcomes to their babies. In B.C. the 15-19 year old fertility rate for 2005 (9.69) was less than the rate for the years 2000-2004 (11.96) as shown in Table 10.

In Figure 29 the ASFR statistics for 15-19 year olds from 2000 to 2004 are shown by LHA. The LHAs are grouped into five groups from those with the highest ASFRs (dark green) to those with the lowest (dark grey). In general, more rural LHAs have higher ASFRs than more urban; more northerly higher than more southerly.

Table 11 shows the number and percentage of births in each maternal age group according to their mode of delivery. Generally, the percent of age group births that were delivered by spontaneous vertex, and to a lesser extent by vacuum extraction, decreased as mothers got older. On the other hand, deliveries by cesarean section increased proportionally as mothers got older (see also Figure 12). However, it is noteworthy that the percentage of first cesareans remained relatively stable from 15-19 up to the 35-39 year age group after which there was a dramatic increase, while repeat cesareans increased with increasing maternal age.

The number of cesarean deliveries in B.C. increased from 21.0% of all live births in 1986 to 29.8% in 2005 (see Figure 10).

Table 12 shows live births by the Local Health Area (LHA) where the mother usually resided and focuses on spontaneous vertex and cesarean 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. The ratios indicate the number of observed cesarean births to residents of the LHA divided by the number that would be expected if the LHA had the provincial rates. The (p) indicates which observed values were significantly different from the expected value. The Methodology section shows an example of the calculation method for the Observed versus Expected Ratio and the Statistical Test of Significance.

The columns on the right side of Table 12 indicate the total number of live births in 2005 to residents of each LHA and the birth rate per 1,000 population. Expressing the number of births this way allows comparison of LHAs with regard to the birth 'productivity'. The LHA with the highest live birth rate had nearly four times the rate of the lowest. In areas where a high birth rate sustained over a number of years, the proportion of infants and young people may rise and the need for services dealing with that part of the population could increase.

This look at births with regard to the mode of allows health care practitioners, administrators, and others to monitor delivery modes in their local area, make comparisons to other areas, and see their relative place in the province. To repeat, the cesarean section rate per 1,000 live births in B.C. has risen consistently over the past few years from 21.0% in 1986 to 29.9% in 2005. For more comparisons of cesarean rates see also Figures 10, 11, and 12.

In Figure 30 the Local Health Areas (LHAs) are grouped with regard to their Ratio of observed number of cesarean live births over expected number of cesarean live births for 2005. The figure shows the LHAs in quintiles (that is five groups with equal numbers of LHAs) from those with the highest cesarean Ratios (quintile 5) to those with the lowest such rates (quintile 1).

TABLE 7
BIRTHS BY AGE OF MOTHER AND LIVE BIRTHS BY BIRTH ORDER
 BRITISH COLUMBIA, 2005

Age of Mother	Birth Order										Total Live Births	Stillbirths	Total Births
	1	2	3	4	5	6	7	8	9+	N.S.			
<13	-	-	-	-	-	-	-	-	-	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	-
14	13	-	-	-	-	-	-	-	-	-	13	-	13
15	47	-	-	-	-	-	-	-	-	-	47	1	48
16	125	2	-	-	-	-	-	-	-	-	127	-	127
17	201	19	-	2	-	-	-	-	-	-	222	2	224
18	322	35	3	-	-	-	-	-	-	-	360	2	362
19	466	80	16	2	-	-	-	-	-	-	564	6	570
20	616	161	28	3	1	-	-	-	-	-	809	6	815
21	750	257	73	11	-	-	-	-	-	-	1,091	11	1,102
22	742	339	85	18	1	-	-	-	-	-	1,185	5	1,190
23	825	483	124	38	3	-	-	-	-	-	1,473	16	1,489
24	840	537	172	32	12	1	1	-	-	-	1,595	12	1,607
25	980	602	211	47	12	1	1	-	-	-	1,854	14	1,868
26	1,064	648	214	52	16	4	-	-	1	1	2,000	15	2,015
27	1,081	743	261	75	24	9	4	1	-	-	2,198	10	2,208
28	1,198	871	302	92	25	7	3	1	-	-	2,499	15	2,514
29	1,206	974	312	89	32	8	2	-	-	-	2,623	18	2,641
30	1,297	1,042	339	111	32	7	7	1	-	-	2,836	17	2,853
31	1,189	1,075	362	114	37	7	6	2	-	-	2,792	18	2,810
32	1,095	1,100	367	101	38	10	5	1	-	-	2,717	17	2,734
33	974	1,010	347	91	36	10	4	7	-	-	2,479	21	2,500
34	879	1,038	372	96	26	12	1	1	3	1	2,429	18	2,447
35	740	941	322	100	27	11	4	1	9	-	2,155	19	2,174
36	564	731	308	105	25	14	9	1	4	1	1,762	10	1,772
37	419	573	235	80	21	7	5	1	1	-	1,342	12	1,354
38	299	462	183	69	15	11	4	2	4	-	1,049	12	1,061
39	224	341	153	55	21	9	9	1	4	-	817	3	820
40	179	236	103	52	13	11	4	3	4	-	605	15	620
41	134	169	78	40	19	6	4	2	3	-	455	6	461
42	69	90	46	28	5	3	6	-	4	-	251	6	257
43	49	46	35	12	6	3	2	2	3	-	158	2	160
44	19	26	14	8	5	-	3	1	6	-	82	4	86
45+	20	21	12	6	-	2	-	1	1	1	64	-	64
N.S.	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	18,626	14,652	5,077	1,529	452	153	84	29	47	4	40,653	313	40,966
Percent	45.8	36.0	12.5	3.8	1.1	0.4	0.2	0.1	0.1	0.0	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, 2005

Age of Father	Age of Mother (in Years)									Total	Percent
	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.		
< 15	-	1	-	-	-	-	-	-	-	1	0.0
15-19	5	263	66	7	1	-	-	-	-	342	0.8
20-24	2	470	1,738	427	75	14	3	-	-	2,729	6.7
25-29	-	130	2,042	4,093	1,050	163	14	2	-	7,494	18.4
30-34	-	33	758	3,700	5,839	1,114	95	-	-	11,539	28.4
35-39	-	13	238	1,247	3,710	3,057	323	9	-	8,597	21.1
40-44	-	2	75	344	1,044	1,581	601	17	-	3,664	9.0
45+	-	2	32	149	352	575	325	26	-	1,461	3.6
N.S.	6	406	1,204	1,207	1,182	621	190	10	-	4,826	11.9
TOTAL	13	1,320	6,153	11,174	13,253	7,125	1,551	64	-	40,653	
Percent	0.0	3.2	15.1	27.5	32.6	17.5	3.8	0.2	-		100.0
Out-of-Wedlock	12	1,106	3,212	2,810	1,975	1,147	335	16	-	10,613	

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 1,919 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, 2005

Age of Mother	Kind of Birth			Total
	Single	Twin	Triplets+	
< 15	13	-	-	13
15-19	1,304	16	-	1,320
20-24	6,014	139	-	6,153
25-29	10,866	302	6	11,174
30-34	12,823	430	-	13,253
35-39	6,829	287	9	7,125
40-44	1,486	62	3	1,551
45 +	54	10	-	64
N.S.	-	-	-	-
TOTAL	39,389	1,246	18	40,653

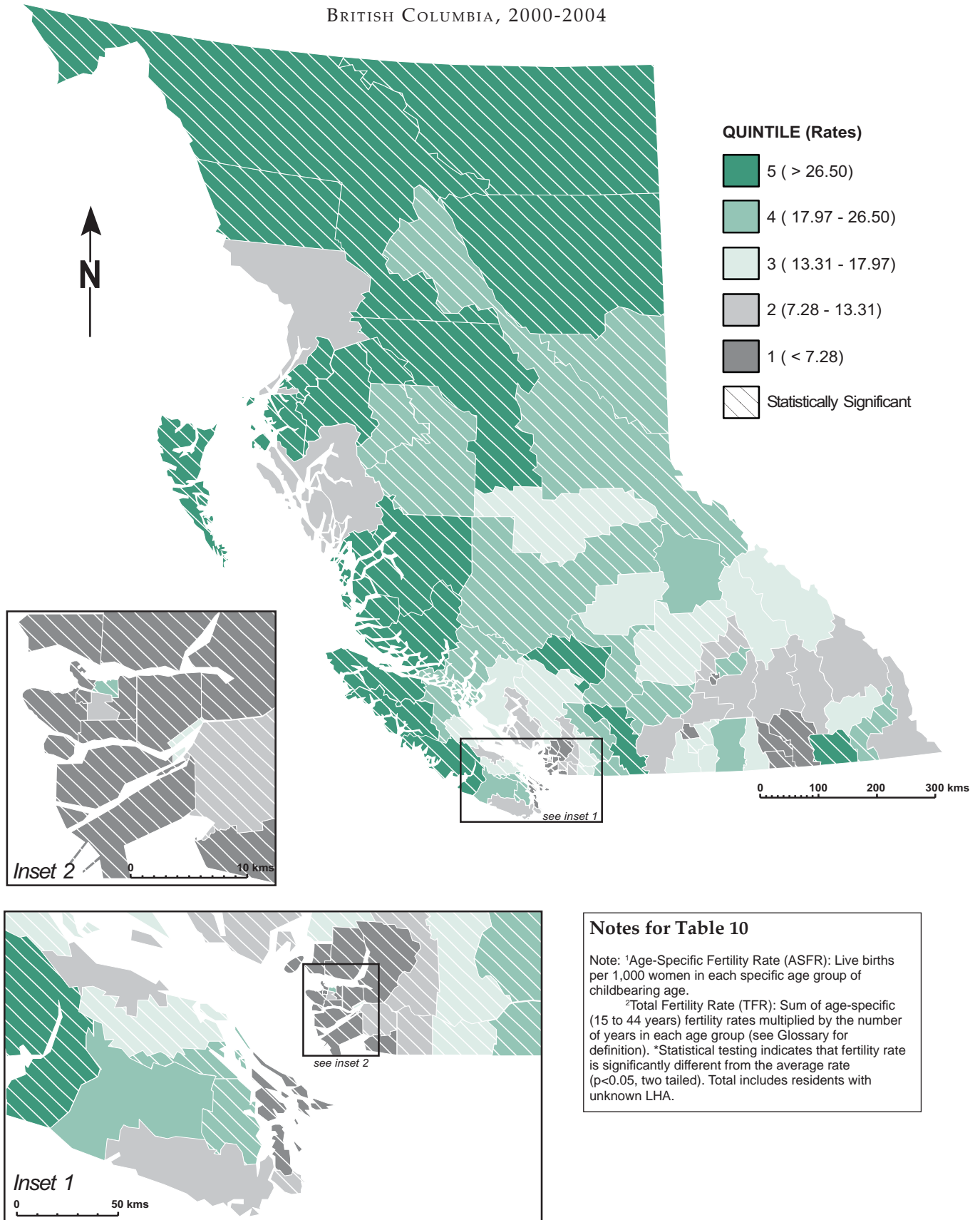
Note: For the multiple births which include stillbirths, only live births are shown in this table. Triplets+ : included in this column are the live births from multiple births of three or more. Non-residents are excluded. N.S.- Not stated.

40

Local Health Area	2000-2004 Teenage Fertility Rate (15-19 yrs)			2005 ASFR ¹						TFR ²	
	Observed	ASFR ¹	(p)	15-19	20-24	25-29	30-34	35-39	40-44	Rate	(p)
001 Fernie	38	13.04		4.92	36.86	83.87	97.04	33.60	2.72	1,295.02	
002 Cranbrook	108	21.34	*	8.31	56.55	84.11	62.75	28.57	4.79	1,225.38	
003 Kimberley	18	13.40		4.13	33.96	66.67	115.58	33.11	2.51	1,279.79	
004 Windermere	20	11.34		6.21	35.05	65.28	74.40	22.50	2.04	1,027.41	*
005 Creston	86	37.47	*	22.36	95.82	120.44	96.90	22.88	8.64	1,835.17	*
006 Kootenay Lake	8	13.20		-	51.47	187.50	179.78	45.87	16.00	2,403.09	*
007 Nelson	27	5.72	*	5.49	22.70	91.73	126.52	41.78	6.83	1,475.27	*
009 Castlegar	10	4.04	*	4.33	20.68	76.73	84.66	27.40	5.68	1,097.37	*
010 Arrow Lakes	6	7.47		-	41.18	35.71	79.37	7.35	-	818.04	*
011 Trail	23	5.71	*	10.84	44.28	55.56	142.86	27.07	5.08	1,428.43	
012 Grand Forks	28	16.83		3.44	34.16	86.73	110.47	40.54	5.93	1,406.36	
013 Kettle Valley	12	20.10		8.62	60.34	129.03	108.11	11.11	8.40	1,628.10	
014 Southern Okanagan	35	13.67		9.11	52.24	53.06	56.51	34.86	9.85	1,078.15	*
015 Penticton	100	15.41	*	11.57	43.06	79.53	84.57	27.97	5.77	1,262.33	
016 Keremeos	11	17.71		-	54.05	61.40	90.00	22.22	5.59	1,166.33	
017 Princeton	7	9.51		27.78	122.95	72.92	60.98	23.62	5.05	1,566.47	
018 Golden	20	15.47		8.26	57.24	140.19	65.84	32.84	5.33	1,548.52	
019 Revelstoke	22	14.12		12.50	58.02	111.70	87.14	28.17	-	1,487.64	
020 Salmon Arm	53	9.33	*	10.45	48.01	101.90	83.22	33.05	4.52	1,405.83	
021 Armstrong - Spallumcheen	14	6.82	*	-	46.88	102.65	67.26	26.42	11.63	1,274.16	
022 Vernon	119	10.92		14.22	46.65	89.20	100.64	37.10	1.62	1,447.13	
023 Central Okanagan	287	10.84		8.96	43.34	77.98	87.94	36.51	6.38	1,305.51	*
024 Kamloops	255	13.80	*	10.02	49.19	76.20	73.40	34.47	4.80	1,240.40	*
025 100 Mile House	38	13.40		8.98	33.27	154.26	71.63	19.31	3.24	1,453.39	
026 North Thompson	19	18.22		9.76	34.65	106.38	119.05	13.95	4.63	1,442.12	
027 Cariboo - Chilcotin	139	24.13	*	19.75	62.86	88.15	58.62	28.73	1.76	1,299.32	
028 Quesnel	82	15.89	*	27.86	58.13	87.76	67.99	19.41	2.81	1,319.78	
029 Lillooet	30	28.74	*	9.17	68.57	189.78	88.24	29.85	-	1,928.06	*
030 South Cariboo	30	20.56	*	27.59	73.95	100.00	88.05	24.79	-	1,571.92	
031 Merritt	45	18.77	*	18.11	74.83	114.29	62.67	34.91	3.92	1,543.64	
032 Hope	50	31.11	*	27.12	63.12	158.47	59.78	25.00	2.86	1,681.76	
033 Chilliwack	308	22.71	*	16.79	72.89	116.50	101.18	44.34	5.29	1,784.94	*
034 Abbotsford	319	14.40	*	8.94	71.29	145.12	96.47	36.86	5.94	1,823.12	*
035 Langley	200	9.34	*	6.31	33.89	103.00	118.28	43.77	6.49	1,558.75	*
037 Delta	100	5.21	*	1.24	30.48	84.05	105.16	55.45	7.77	1,420.74	
038 Richmond	92	3.35	*	2.62	15.14	59.00	103.08	60.46	9.96	1,251.32	*
040 New Westminster	101	15.29	*	8.76	52.80	90.96	80.46	48.05	7.69	1,443.54	
041 Burnaby	206	6.77	*	5.63	21.35	68.82	98.15	53.79	10.95	1,293.42	*
042 Maple Ridge	139	9.34	*	7.00	33.27	83.48	102.98	36.82	7.22	1,353.83	
043 Coquitlam	225	6.48	*	3.28	23.13	63.82	114.53	55.64	7.99	1,341.96	
044 North Vancouver	89	4.20	*	2.90	16.25	50.09	111.87	64.86	9.32	1,276.41	*
045 West Vancouver - Bowen Is.	14	1.72	*	3.54	4.78	32.00	95.46	85.98	19.06	1,204.09	*
046 Sunshine Coast	36	7.28	*	10.18	28.14	74.90	84.53	41.18	9.34	1,241.35	
047 Powell River	46	13.38		15.65	44.75	91.12	79.37	18.92	3.49	1,266.48	
048 Howe Sound	73	16.82	*	14.43	32.49	63.77	94.66	56.07	14.08	1,377.48	
049 Bella Coola Valley	32	42.95	*	66.67	122.64	141.03	112.07	40.65	14.08	2,485.69	*
050 Queen Charlotte	23	27.81	*	12.42	89.55	107.84	84.66	21.65	4.29	1,602.05	
051 Snow Country	1	9.17		-	-	62.50	60.61	54.05	-	885.80	
052 Prince Rupert	136	41.92	*	23.32	68.38	61.90	57.32	21.41	11.14	1,217.30	
053 Upper Skeena	48	44.61	*	35.18	117.15	111.11	63.41	19.92	4.15	1,754.63	
054 Smithers	77	20.86	*	23.07	82.92	128.34	85.80	40.60	6.60	1,836.59	*
055 Burns Lake	42	26.50	*	13.79	91.77	130.23	82.61	18.18	6.90	1,717.42	
056 Nechako	98	28.82	*	31.70	85.94	181.30	59.39	21.74	7.04	1,935.51	*
057 Prince George	382	18.76	*	14.37	73.83	91.87	73.83	26.55	4.98	1,427.09	
059 Peace River South	119	23.17	*	21.67	70.86	105.94	53.36	11.37	7.03	1,351.11	
060 Peace River North	197	31.89	*	22.83	109.89	165.23	89.54	39.57	7.30	2,171.86	*
061 Greater Victoria	298	10.08	*	8.70	30.92	60.71	82.18	45.87	9.90	1,191.41	*
062 Sooke	108	11.00		10.94	43.15	99.66	139.73	43.75	11.07	1,741.49	*
063 Saanich	68	7.06	*	7.47	25.84	62.54	109.85	50.59	9.37	1,328.32	
064 Gulf Islands	10	4.56	*	9.11	16.53	58.14	87.95	61.22	6.33	1,196.41	
065 Cowichan	201	20.55	*	16.19	47.86	78.56	98.82	34.44	8.62	1,422.48	
066 Lake Cowichan	24	19.93		9.09	53.64	75.34	120.00	9.22	-	1,336.45	
067 Ladysmith	58	20.63	*	21.78	60.87	139.34	111.11	30.82	7.60	1,857.62	*
068 Nanaimo	248	14.56	*	12.53	47.19	81.56	76.62	27.74	4.61	1,251.32	*
069 Qualicum	55	9.90		6.11	45.73	75.88	76.57	29.81	5.96	1,200.29	*
070 Alberni	157	29.00	*	26.29	63.38	105.03	129.03	27.52	6.77	1,790.14	*
071 Courtenay	159	14.57	*	11.11	36.03	84.47	90.72	37.28	8.88	1,342.44	
072 Campbell River	141	18.77	*	21.40	37.60	106.20	81.50	21.17	3.45	1,356.64	
075 Mission	116	15.33	*	13.54	51.75	131.51	129.06	40.68	4.83	1,856.83	*
076 Agassiz - Harrison	35	24.49	*	30.82	57.55	116.82	138.46	35.09	13.79	1,962.70	*
077 Summerland	12	5.75	*	18.52	20.27	42.35	137.57	48.78	-	1,337.40	
078 Enderby	33	23.26	*	11.32	78.43	147.73	40.94	50.42	9.17	1,690.05	
080 Kitimat	33	12.30		15.21	52.26	111.94	55.87	23.76	3.77	1,314.02	
081 Fort Nelson	39	28.85	*	34.09	108.47	110.34	80.00	34.60	4.15	1,858.31	*
083 Central Coast	17	47.09	*	27.40	214.29	150.00	84.51	64.52	-	2,703.53	*
084 Vancouver Island West	25	48.26	*	29.13	100.00	117.65	31.25	32.00	-	1,550.12	
085 Vancouver Island North	108	36.47	*	24.39	72.87	112.12	43.31	37.74	8.20	1,493.13	
087 Stikine	9	48.65	*	-	93.02	30.30	56.60	-	-	899.65	
088 Terrace	128	28.97	*	24.52	79.17	105.12	70.59	21.16	3.38	1,519.72	
092 Nisga'a	30	75.19	*	56.34	146.67	76.92	107.14	50.85	-	2,189.59	
094 Telegraph Creek	7	59.32	*	-	150.00	-	80.00	93.75	-	1,618.75	
161 Vancouver - City Centre	23	3.86	*	5.26	10.29	23.35	39.36	38.39	13.39	650.15	*
162 Vancouver - Downtown E.side	92	21.18	*	20.74	49.69	69.07	58.31	41.74	11.64	1,255.90	*
163 Vancouver - North East	84	6.25	*	5.63	34.00	87.17	99.01	58.06	14.93	1,494.03	*
164 Vancouver - Westside	17	0.92	*	1.35	5.56	23.64	75.15	80.60	19.73	1,030.14	*
165 Vancouver - Midtown	119	11.79		5.59	36.21	72.69	92.60	54.02	14.54	1,378.22	
166 Vancouver - South	94	4.62	*	6.44	32.45	63.47	91.83	54.64	15.40	1,321.18	
201 Surrey	684	13.24	*	9.06	71.40	138.69	105.01	42.51	8.82	1,877.46	*
202 South Surrey/White Rock	19	1.76	*	4.29	14.30	61.32	143.03	65.13	7.76	1,479.19	
PROVINCIAL TOTAL	8,104	11.96		9.69	41.64	80.80	90.86	44.99	8.65	1,383.13	

Notes for this table follow the map.

FIGURE 29
LIVE BIRTH TEENAGE FERTILITY RATES BY LOCAL HEALTH AREA
 BRITISH COLUMBIA, 2000-2004



Notes for Table 10

Note: ¹Age-Specific Fertility Rate (ASFR): Live births per 1,000 women in each specific age group of childbearing age.

²Total Fertility Rate (TFR): Sum of age-specific (15 to 44 years) fertility rates multiplied by the number of years in each age group (see Glossary for definition). *Statistical testing indicates that fertility rate is significantly different from the average rate ($p < 0.05$, two tailed). Total includes residents with unknown LHA.

Note: ASFR - Age-Specific Fertility Rate - Live births per 1,000 women age 15 to 19 years. Refer to Figure 1 to clarify geographical location of Local Health Area

TABLE 11
LIVE BIRTHS BY MODE OF DELIVERY AND AGE OF MOTHER
 BRITISH COLUMBIA, 2005

Mode of Delivery	Age of Mother (in Years)									Total
	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.	
Spontaneous vertex	8	971	4,064	6,909	7,776	3,872	757	20	-	24,377
Percent	61.5	73.6	66.0	61.8	58.7	54.3	48.8	31.3	-	60.0
Spontaneous breech	-	2	14	36	44	28	6	-	-	130
Percent	-	0.2	0.2	0.3	0.3	0.4	0.4	-	-	0.3
Forceps	1	21	202	427	504	264	54	4	-	1,477
Percent	7.7	1.6	3.3	3.8	3.8	3.7	3.5	6.3	-	3.6
Vacuum	1	90	446	740	794	368	84	3	-	2,526
Percent	7.7	6.8	7.2	6.6	6.0	5.2	5.4	4.7	-	6.2
First cesarean	3	220	1,084	2,030	2,470	1,339	367	23	-	7,536
Percent	23.1	16.7	17.6	18.2	18.6	18.8	23.7	35.9	-	18.5
Repeat cesarean	-	16	343	1,032	1,665	1,254	283	14	-	4,607
Percent	-	1.2	5.6	9.2	12.6	17.6	18.2	21.9	-	11.3
N.S.	-	-	-	-	-	-	-	-	-	-
TOTAL	13	1,320	6,153	11,174	13,253	7,125	1,551	64	-	40,653
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, 1999-2005

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 1999 to 2004.

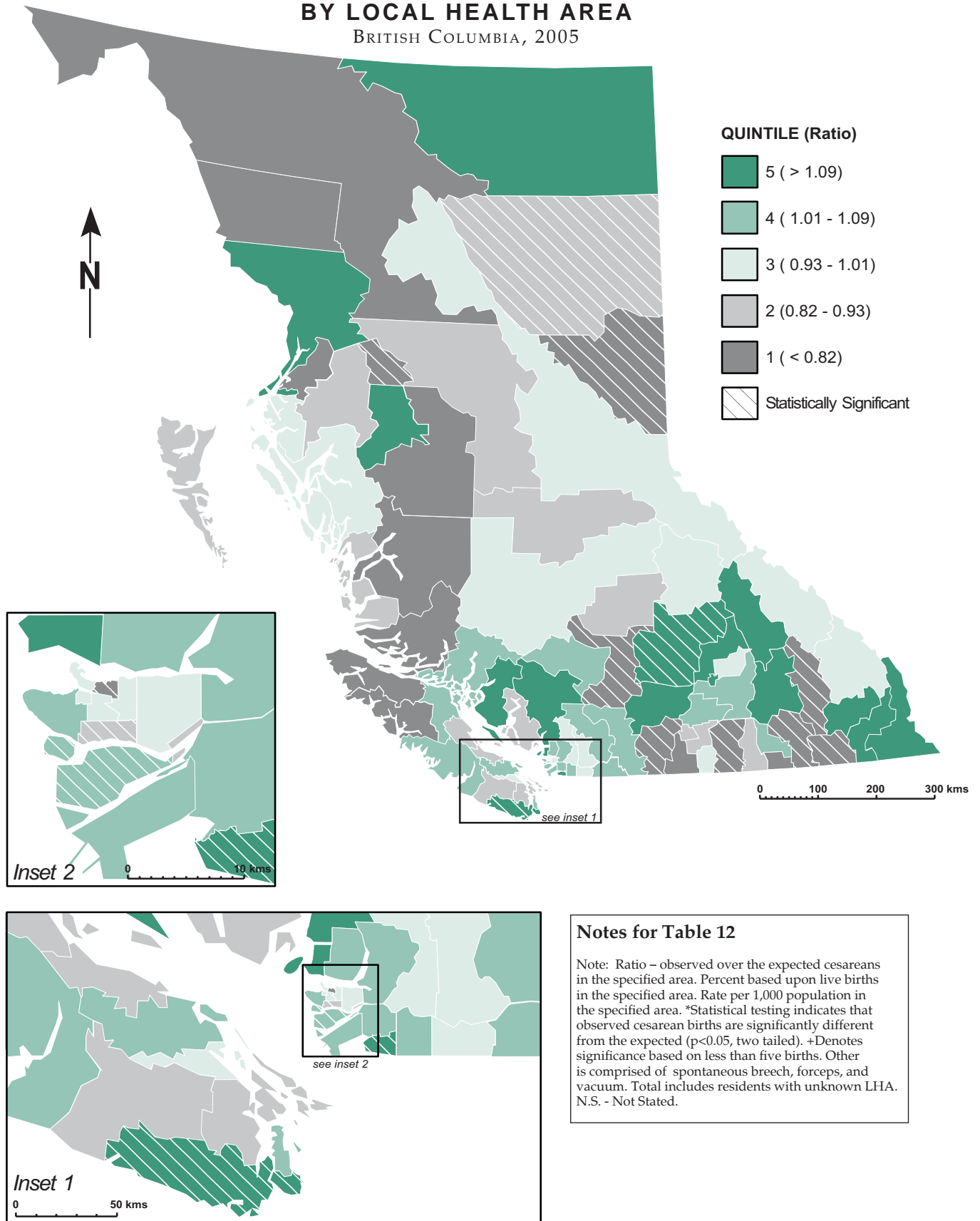
Place of Birth	1999		2000		2001		2002		2003		2004		2005	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Hospital	611	63.3	661	62.1	853	63.2	837	62.9	1,052	68.4	1,167	69.3	1,489	70.1
Home	350	36.3	387	36.3	415	30.7	402	30.2	429	27.9	459	27.3	423	19.9
Other and unknown*	4	0.4	17	1.6	82	6.1	91	6.8	57	3.7	57	3.4	213	10.0
Midwife Assisted Births	965	100.0	1,065	100.0	1,350	100.0	1,330	100.0	1,538	100.0	1,683	100.0	2,125	100.0
Percent of Total Births		2.3		2.6		3.3		3.3		3.8		4.2		5.2
Delivered by														
Registered Midwives														

Note: *Other and unknown includes birthing clinics.

44		Local Health Area	Spontaneous Vertex	Cesarean					Other	N.S.	Total Live Births	
				First	Repeat	Total	Ratio	(p)	Percent		Number	Rate
001	Fernie	68	28	18	46	1.28	38.3		6	-	120	7.55
002	Cranbrook	132	50	24	74	1.14	34.1		11	-	217	8.24
003	Kimberley	38	10	11	21	1.15	34.4		2	-	61	6.74
004	Windermere	47	14	8	22	1.00	29.7		5	-	74	6.98
005	Creston	90	14	9	23	0.65	19.3	*	6	-	119	9.18
006	Kootenay Lake	33	1	4	5	0.40	11.9	*	4	-	42	11.63
007	Nelson	156	24	12	36	0.58	17.2	*	17	-	209	8.38
009	Castlegar	56	15	13	28	1.04	31.1		6	-	90	6.61
010	Arrow Lakes	14	7	3	10	1.39	41.7		-	-	24	4.62
011	Trail	97	26	12	38	0.81	24.2		22	-	157	7.72
012	Grand Forks	42	7	8	15	0.85	25.4		2	-	59	6.42
013	Kettle Valley	23	-	2	2	0.26	7.7	+	1	-	26	7.22
014	Southern Okanagan	55	17	14	31	0.99	29.5		19	-	105	5.38
015	Penticton	189	46	31	77	0.86	25.7		34	-	300	7.22
016	Keremeos	18	3	2	5	0.60	17.9		5	-	28	5.42
017	Princeton	25	4	-	4	0.38	11.4	+	6	-	35	7.14
018	Golden	50	13	9	22	0.94	28.2		6	-	78	9.86
019	Revelstoke	41	14	10	24	1.10	32.9		8	-	73	8.50
020	Salmon Arm	148	49	46	95	1.22	36.5		17	-	260	7.68
021	Armstrong - Spallumcheen	42	19	10	29	1.23	36.7		8	-	79	7.72
022	Vernon	337	100	72	172	1.08	32.2		25	-	534	8.54
023	Central Okanagan	845	254	173	427	1.02	30.5		130	-	1,402	8.35
024	Kamloops	512	190	117	307	1.18	35.1	*	55	-	874	8.26
025	100 Mile House	58	12	12	24	0.88	26.4		9	-	91	6.09
026	North Thompson	26	8	4	12	0.93	27.9		5	-	43	8.05
027	Cariboo - Chilcotin	160	36	39	75	0.94	28.0		33	-	268	9.13
028	Quesnel	152	32	24	56	0.83	24.8		18	-	226	8.69
029	Lillooet	36	8	9	17	1.02	30.4		3	-	56	11.67
030	South Cariboo	54	9	4	13	0.60	17.8	*	6	-	73	9.24
031	Merritt	70	23	19	42	1.20	35.9		5	-	117	9.96
032	Hope	46	11	12	23	1.03	30.7		6	-	75	8.44
033	Chilliwack	564	150	127	277	1.03	30.7		62	-	903	11.51
034	Abbotsford	956	269	200	469	0.98	29.3		178	-	1,603	12.51
035	Langley	745	217	146	363	1.01	30.2		94	-	1,202	9.74
037	Delta	507	161	132	293	1.09	32.4		103	-	903	8.75
038	Richmond	907	300	211	511	1.09	32.5	*	152	-	1,570	9.05
040	New Westminster	380	110	53	163	0.88	26.2		80	-	623	10.84
041	Burnaby	1,259	364	221	585	0.94	28.2		232	-	2,076	10.16
042	Maple Ridge	499	151	94	245	0.98	29.2		95	-	839	9.30
043	Coquitlam	1,134	379	234	613	1.03	30.8		243	-	1,990	9.46
044	North Vancouver	696	233	126	359	1.02	30.6		120	-	1,175	8.67
045	West Vancouver - Bowen Is.	173	59	42	101	1.13	33.8		25	-	299	5.80
046	Sunshine Coast	131	33	19	52	0.90	26.9		10	-	193	6.76
047	Powell River	78	27	23	50	1.23	36.8		8	-	136	6.56
048	Howe Sound	223	90	37	127	1.12	33.3		31	-	381	11.76
049	Bella Coola Valley	42	3	7	10	0.62	18.5		2	-	54	15.91
050	Queen Charlotte	26	8	5	13	0.93	27.7		8	-	47	8.92
051	Snow Country	3	1	1	2	1.12	33.3		1	-	6	7.66
052	Prince Rupert	84	28	17	45	1.00	30.0		21	-	150	9.02
053	Upper Skeena	51	5	6	11	0.50	14.9	*	12	-	74	12.86
054	Smithers	132	42	39	81	1.17	34.9		19	-	232	12.83
055	Burns Lake	63	12	6	18	0.68	20.5		7	-	88	11.15
056	Nechako	153	39	21	60	0.87	26.1		17	-	230	12.81
057	Prince George	686	191	113	304	0.95	28.3		84	-	1,074	10.52
059	Peace River South	197	34	19	53	0.67	20.1	*	14	-	264	9.14
060	Peace River North	373	73	57	130	0.82	24.4	*	29	-	532	15.82
061	Greater Victoria	1,011	453	185	638	1.21	36.3	*	111	-	1,760	8.26
062	Sooke	387	152	85	237	1.22	36.3	*	29	-	653	10.96
063	Saanich	272	82	44	126	1.02	30.5		15	-	413	6.50
064	Gulf Islands	59	18	3	21	0.84	25.0		4	-	84	5.60
065	Cowichan	322	73	46	119	0.86	25.8		21	-	462	8.39
066	Lake Cowichan	31	13	-	13	0.93	27.7		3	-	47	7.28
067	Ladysmith	114	25	22	47	0.95	28.3		5	-	166	9.59
068	Nanaimo	494	147	111	258	1.06	31.6		64	-	816	8.18
069	Qualicum	154	31	30	61	0.88	26.2		18	-	233	5.59
070	Alberni	206	64	37	101	1.01	30.1		29	-	336	10.28
071	Courtenay	311	79	39	118	0.85	25.3		38	-	467	7.57
072	Campbell River	185	63	39	102	1.04	31.1		41	-	328	8.02
075	Mission	276	78	49	127	0.96	28.5		42	-	445	11.16
076	Agassiz - Harrison	60	15	14	29	1.07	31.9		2	-	91	10.22
077	Summerland	41	12	5	17	0.85	25.4		9	-	67	5.63
078	Enderby	51	13	8	21	0.94	28.0		3	-	75	9.71
080	Kitimat	64	11	15	26	0.94	28.0		3	-	93	7.93
081	Fort Nelson	57	20	18	38	1.18	35.2		13	-	108	16.02
083	Central Coast	21	5	3	8	0.89	26.7		1	-	30	17.52
084	Vancouver Island West	20	3	2	5	0.62	18.5		2	-	27	11.18
085	Vancouver Island North	85	23	10	33	0.81	24.3		18	-	136	9.71
087	Stikine	7	-	1	1	0.42	12.5		-	-	8	6.44
088	Terrace	164	34	32	66	0.91	27.3		12	-	242	10.81
092	Nisga'a	23	2	3	5	0.60	17.9		-	-	28	14.94
094	Telegraph Creek	7	1	-	1	0.42	12.5		-	-	8	12.46
161	Vancouver - City Centre	458	214	43	257	0.99	29.6		152	-	867	8.29
162	Vancouver - Downtown E.side	325	82	26	108	0.73	21.8	*	63	-	496	9.53
163	Vancouver - North East	659	215	121	336	0.99	29.6		139	-	1,134	11.46
164	Vancouver - Westside	625	233	116	349	1.05	31.3		142	-	1,116	8.99
165	Vancouver - Midtown	588	192	82	274	0.93	27.7		128	-	990	11.44
166	Vancouver - South	797	210	131	341	0.88	26.3	*	157	-	1,295	10.20
201	Surrey	2,465	822	538	1,360	1.01	30.1		693	-	4,518	13.52
202	South Surrey/White Rock	308	127	61	188	1.15	34.5	*	49	-	545	6.91
PROVINCIAL TOTAL			24,377	7,536	4,607	12,143	1.00	29.9	4,133	-	40,653	9.56

Notes for this table follow the map.

FIGURE 30
**CESAREAN DELIVERIES OF LIVE BORN INFANTS
 BY LOCAL HEALTH AREA**
 BRITISH COLUMBIA, 2005



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

Births – Birth Weight

There are good reasons for family and friends to ask about a newborn baby's weight. Size at birth is recognized as the primary indicator of newborn health not only in British Columbia 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 British Columbia a baby is weighed (in grams) immediately after birth and 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.

Birth weight for gestational age is the most widely accepted indicator of health status of newborns and predictor of their subsequent well being. Birth weight alone is considered a valuable indicator of the infant's health status but the addition of gestational age can provide an indication of potential growth restriction during pregnancy. Unfortunately reliable estimates of gestational age are not available in some jurisdictions so birth weight has to suffice, but in B.C. recording methods are well established so birth weight for gestational age is an accepted indicator of fetal growth. In recognition of its importance the Vital Statistics Agency periodically publishes reports dedicated to the analysis of birth weight for gestational age for various sub-populations in the province.

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 and Table 13 indicates that 35,802 births or 88.1% of all live births in 2005 were in that category. There were 3,119 pre-term births (less than 37 weeks) which accounted for 7.7% of all live births.

In British Columbia in 2005, the average weight for a baby boy (calculated using the data in Table 13) was 3,449 grams while the average for a baby girl was 3,346 grams.

Table 14 shows the number of live births to residents of British Columbia in 2005 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).

In B.C. healthy birth weight is distributed in an inverted "U" shape across maternal age groups. 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 babies.

Table 15 displays the number and percent of low birth weight (less than 2,500 grams) babies by gender according to the mother's age group. Female babies generally have a lower birth weight than males (see Table 13), so it is not surprising that they have a higher rate of low birth weight (60.3 per 1,000 female live births) than males (52.1 per 1,000 male live births).

Figure 31 graphically shows the pattern of low birth weight by maternal age groups. Women aged 20-24, 25-29, and 30-34 years old had the lowest rates of low birth weight babies in 2005 with increasing rates in subsequent age groups. Older mothers not only have increased rates of LBW babies but the rate has been consistently increasing since 1986 as indicated in Figure 9.

Table 16 shows the incidence of low birth weight (LBW) babies in the period 2000-2004 and the year 2005, stratified by the LHA in which the mother resided with statistics for the whole province. As well as the incidence of such births, the 2000-2004 part of the table shows the LBW rate per 1,000 live births and the ratio of the observed number of LBW births in the LHA divided by the number that would be expected if the LHA had the provincial rates. The (p) column indicates those LHAs where the observed number was significantly different from the expected. See Expected Low Birth Weight in the Glossary and an example of the computational method of the ratio with a reference to the statistical test under Observed versus Expected Ratios in the Methodology section. There were 24 LHAs with statistically significant ratios, of these only nine were high. The 2005 part of the table shows the incidence figures broken down by three categories of 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 2005 so the rates should be viewed with caution.

Figure 32 shows B.C. Local Health Areas (LHAs) displayed in five levels according to the 2000-2004 observed versus expected LBW ratio. High ratios, (quintile 5, dark green colour) mean that an LHA had quite a high ratio in the years 2000-2004. At the other extreme, the areas shown as dark grey have a relatively low ratio. The spatial relationship of the high ratio areas to the low ratio LHAs has no obvious pattern.

TABLE 13
LIVE BIRTHS BY BIRTH WEIGHT, GENDER, AND GESTATIONAL AGE
BRITISH COLUMBIA, 2005

Birth Weight (in Grams)	Gender		Gestational Age (in Weeks)						Total
	Male	Female	<20	20-27	28-36	37-41	42+	N.S.	
<500	25	20	5	40	-	-	-	-	45
500-749	24	37	1	57	3	-	-	-	61
750-999	35	31	-	56	10	-	-	-	66
1,000-1,249	45	25	-	22	48	-	-	-	70
1,250-1,499	66	65	-	5	125	1	-	-	131
1,500-1,749	92	79	-	1	166	4	-	-	171
1,750-1,999	133	128	-	-	232	29	-	-	261
2,000-2,249	249	265	-	-	386	128	-	-	514
2,250-2,499	415	546	-	-	510	450	1	-	961
2,500-2,749	911	1,109	-	-	568	1,450	2	-	2,020
2,750-2,999	1,743	2,275	-	-	406	3,603	9	-	4,018
3,000-3,249	3,033	3,461	-	-	270	6,207	17	-	6,494
3,250-3,499	3,980	3,933	-	-	128	7,744	41	-	7,913
3,500-3,749	3,918	3,454	-	-	53	7,263	56	-	7,372
3,750-3,999	2,896	2,338	-	-	18	5,151	65	-	5,234
4,000-4,249	1,815	1,245	-	-	6	3,002	52	-	3,060
4,250-4,499	895	516	-	-	1	1,382	28	-	1,411
4,500-4,749	333	201	-	-	-	520	14	-	534
4,750-4,999	131	61	-	-	1	185	6	-	192
5,000-5,249	42	21	-	-	1	60	2	-	63
5,250-5,499	14	7	-	-	-	20	1	-	21
5,500+	4	3	-	-	-	6	1	-	7
N.S.	13	21	-	-	-	-	-	34	34
TOTAL	20,812	19,841	6	181	2,932	37,205	295	34	40,653

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

TABLE 14
LIVE BIRTHS BY BIRTH WEIGHT AND AGE OF MOTHER
 BRITISH COLUMBIA, 2005

Birth Weight (in Grams)	Age of Mother (in Years)									Total
	<15	15-19	20-24	25-29	30-34	35-39	40-44	45+	N.S.	
<500	-	1	2	14	15	12	1	-	-	45
500-749	-	3	12	20	11	11	4	-	-	61
750-999	-	5	11	16	26	5	3	-	-	66
1,000-1,249	-	1	13	23	13	12	6	2	-	70
1,250-1,499	1	4	13	41	36	27	9	-	-	131
1,500-1,749	-	10	27	36	66	25	4	3	-	171
1,750-1,999	-	9	36	53	79	60	24	-	-	261
2,000-2,249	-	21	76	132	154	100	29	2	-	514
2,250-2,499	1	33	122	272	292	197	41	3	-	961
2,500-2,749	-	63	314	555	641	350	92	5	-	2,020
2,750-2,999	2	132	636	1,100	1,290	691	160	7	-	4,018
3,000-3,249	3	202	961	1,807	2,144	1,141	229	7	-	6,494
3,250-3,499	2	270	1,216	2,188	2,574	1,341	311	11	-	7,913
3,500-3,749	3	256	1,095	2,051	2,411	1,294	252	10	-	7,372
3,750-3,999	1	158	820	1,398	1,707	937	209	4	-	5,234
4,000-4,249	-	85	468	849	1,020	528	105	5	-	3,060
4,250-4,499	-	41	203	379	497	242	47	2	-	1,411
4,500-4,749	-	16	82	157	170	94	15	-	-	534
4,750-4,999	-	4	31	50	67	32	7	1	-	192
5,000-5,249	-	1	13	14	21	12	1	1	-	63
5,250-5,499	-	2	1	7	6	5	-	-	-	21
5,500+	-	-	-	2	3	2	-	-	-	7
Low	2	87	312	607	692	449	121	10	-	2,280
Percent	15.40	6.6	5.1	5.4	5.2	6.3	7.8	15.6	-	5.6
Healthy	11	1,207	5,713	10,327	12,284	6,524	1,405	51	-	37,522
Percent	84.6	91.4	92.8	92.4	92.7	91.6	90.6	79.7	-	92.3
High	-	23	127	230	267	145	23	2	-	817
Percent	-	1.7	2.1	2.1	2.0	2.0	1.5	3.1	-	2.0
N.S.	-	3	1	10	10	7	2	1	-	34
TOTAL	13	1,320	6,153	11,174	13,253	7,125	1,551	64	-	40,653

Note: Low birth weight <2,500 grams. Healthy birth weight 2,500 - 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, 2005

Age of Mother	Male		Female		Total		
	Number	Percent	Number	Percent	Number	Percent	Rate
< 15	2	0.2	-	-	2	0.1	+
15-19	43	4.0	44	3.7	87	3.8	65.91
20-24	147	13.6	165	13.8	312	13.7	50.71
25-29	267	24.6	340	28.4	607	26.6	54.32
30-34	363	33.5	329	27.5	692	30.4	52.21
35-39	199	18.4	250	20.9	449	19.7	63.02
40-44	57	5.3	64	5.4	121	5.3	78.01
45 +	6	0.6	4	0.3	10	0.4	156.25
N.S.	-	-	-	-	-	-	-
TOTAL	1,084	100.0	1,196	100.0	2,280	100.0	56.08

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, 2005

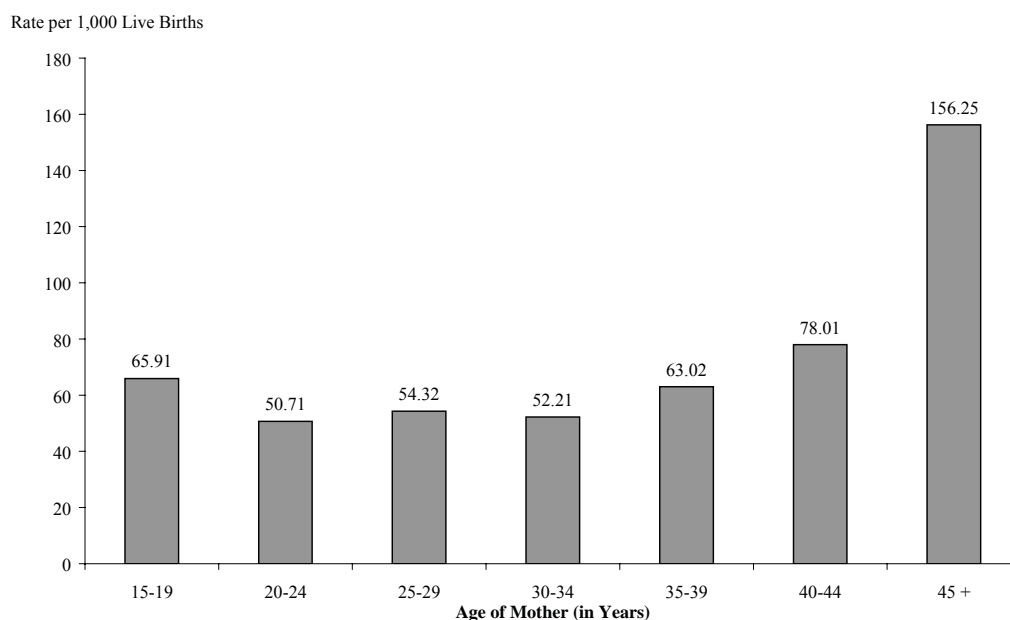


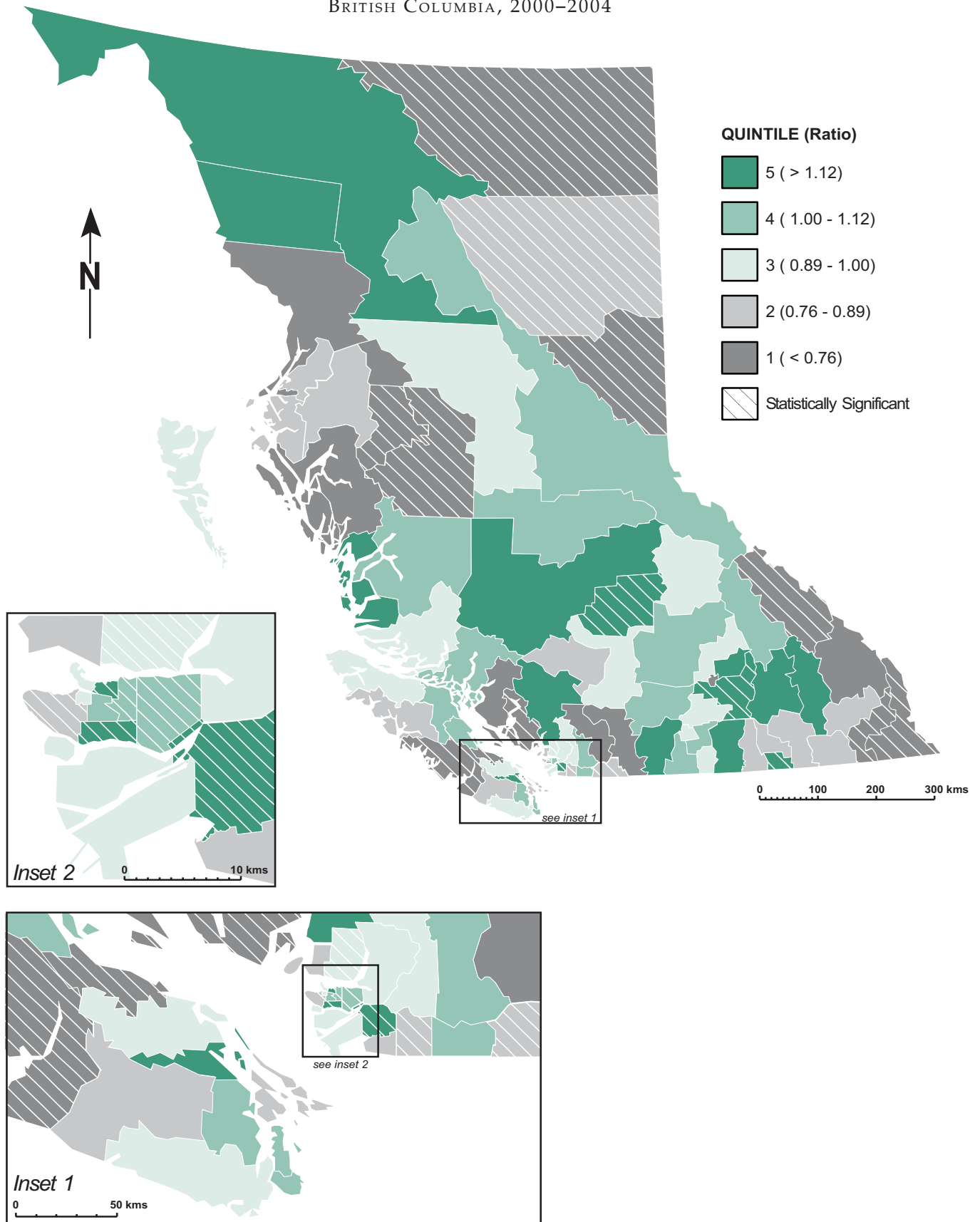
Table 16

**LOW BIRTH WEIGHT LIVE BIRTHS BY LOCAL HEALTH AREA AND GESTATIONAL AGE,
BRITISH COLUMBIA, 2000–2004 AND 2005**

Local Health Area	2000–2004				2005					
	Low Birth Weight Live Births				Gestational Age (in Weeks)				Total	Rate
	Observed	Ratio	(p)	Rate	<37	37–41	42+	N.S.		
001 Fernie	19	0.60	*	31.77	3	1	-	-	4	33.33
002 Cranbrook	37	0.63	*	33.24	10	2	-	-	12	55.30
003 Kimberley	13	0.89		46.93	2	1	-	-	3	49.18
004 Windermere	10	0.59		30.96	-	2	-	-	2	27.03
005 Creston	28	0.85		44.80	5	1	-	-	6	50.42
006 Kootenay Lake	13	1.37		72.22	-	1	-	-	1	23.81
007 Nelson	47	0.81		42.84	5	2	-	-	7	33.49
009 Castlegar	21	0.86		45.45	6	-	-	-	6	66.67
010 Arrow Lakes	16	1.60		84.21	3	-	-	-	3	125.00
011 Trail	50	1.37	*	72.25	12	4	-	-	16	101.91
012 Grand Forks	15	0.87		46.01	1	-	-	-	1	16.95
013 Kettle Valley	9	1.30		68.18	-	-	-	-	-	-
014 Southern Okanagan	30	0.89		47.02	3	1	-	-	4	38.10
015 Penticton	85	1.12		59.03	10	4	-	-	14	46.67
016 Keremeos	11	1.06		55.56	2	-	-	-	2	71.43
017 Princeton	8	1.26		66.12	4	1	-	-	5	142.86
018 Golden	8	0.48	*	25.32	1	1	-	-	2	25.64
019 Revelstoke	21	1.03		54.12	1	-	-	-	1	13.70
020 Salmon Arm	51	0.89		46.96	9	2	-	-	11	42.31
021 Armstrong - Spallumcheen	14	0.70		36.84	2	1	-	-	3	37.97
022 Vernon	163	1.20	*	63.25	16	9	-	-	25	46.82
023 Central Okanagan	327	0.93		48.98	65	17	-	-	82	58.49
024 Kamloops	260	1.12		58.70	36	16	-	-	52	59.50
025 100 Mile House	40	1.43	*	75.05	5	-	-	-	5	54.95
026 North Thompson	12	0.99		52.17	-	-	-	-	-	-
027 Cariboo - Chilcotin	92	1.16		60.97	15	3	-	-	18	67.16
028 Quesnel	67	1.12		58.93	7	5	-	-	12	53.10
029 Lillooet	12	0.80		42.25	1	1	-	-	2	35.71
030 South Cariboo	13	0.91		47.79	3	2	-	-	5	68.49
031 Merritt	28	1.00		52.83	1	2	-	-	3	25.64
032 Hope	13	0.66		34.57	3	-	-	-	3	40.00
033 Chilliwack	177	0.81	*	42.78	39	11	-	-	50	55.37
034 Abbotsford	419	1.00		52.47	57	20	-	-	77	48.03
035 Langley	270	0.84	*	44.33	46	19	-	-	65	54.08
037 Delta	234	0.91		47.60	43	13	-	-	56	62.02
038 Richmond	403	0.98		51.70	65	28	-	-	93	59.24
040 New Westminster	207	1.22	*	64.29	30	5	-	-	35	56.18
041 Burnaby	607	1.12	*	58.74	84	45	-	-	129	62.14
042 Maple Ridge	226	0.98		51.35	31	15	-	-	46	54.83
043 Coquitlam	539	0.98		51.47	83	26	-	-	109	54.77
044 North Vancouver	304	0.89	*	46.99	56	16	-	-	72	61.28
045 West Vancouver - Bowen Is.	66	0.83		43.88	10	4	-	-	14	46.82
046 Sunshine Coast	28	0.59	*	30.84	6	1	-	-	7	36.27
047 Powell River	29	0.73		38.62	4	-	-	-	4	29.41
048 Howe Sound	117	1.14		59.69	5	2	-	-	7	18.37
049 Bella Coola Valley	13	1.04		54.62	3	-	-	-	3	55.56
050 Queen Charlotte	16	0.92		48.19	2	-	-	-	2	42.55
051 Snow Country	1	0.45		23.81	-	1	-	-	1	166.67
052 Prince Rupert	43	0.79		41.59	3	-	-	-	3	20.00
053 Upper Skeena	13	0.67		35.04	3	-	-	-	3	40.54
054 Smithers	42	0.70	*	36.62	14	2	1	-	17	73.28
055 Burns Lake	9	0.38	*	19.87	2	2	-	-	4	45.45
056 Nechako	58	0.97		51.01	7	2	-	-	9	39.13
057 Prince George	283	1.03		53.92	44	14	-	-	58	54.00
059 Peace River South	52	0.71	*	37.20	4	4	-	-	8	30.30
060 Peace River North	108	0.83	*	43.90	15	10	-	-	25	46.99
061 Greater Victoria	453	1.00		52.58	75	22	-	-	97	55.11
062 Sooke	147	0.99		51.82	35	8	-	-	43	65.85
063 Saanich	115	1.10		57.62	11	5	-	-	16	38.74
064 Gulf Islands	19	0.82		43.08	3	1	-	-	4	47.62
065 Cowichan	137	1.08		56.61	26	6	-	-	32	69.26
066 Lake Cowichan	10	0.88		46.30	2	3	-	-	5	106.38
067 Ladysmith	41	1.15		60.65	10	1	-	-	11	66.27
068 Nanaimo	196	0.94		49.27	29	11	-	-	40	49.02
069 Qualicum	40	0.67	*	35.46	12	5	-	-	17	72.96
070 Alberni	56	0.73	*	38.44	17	-	-	-	17	50.60
071 Courtenay	130	1.08		56.69	14	1	-	-	15	32.12
072 Campbell River	95	1.00		52.49	14	3	-	-	17	51.83
075 Mission	110	1.00		52.76	19	8	-	-	27	60.67
076 Agassiz - Harrison	15	0.66		34.64	6	1	-	-	7	76.92
077 Summerland	17	0.91		47.75	-	-	-	-	-	-
078 Enderby	21	1.37		72.16	4	2	-	-	6	80.00
080 Kitimat	18	0.65		34.09	3	2	-	-	5	53.76
081 Fort Nelson	15	0.61	*	31.85	2	-	-	-	2	18.52
083 Central Coast	9	1.53		80.36	2	-	-	-	2	66.67
084 Vancouver Island West	7	0.79		41.42	-	1	-	-	1	37.04
085 Vancouver Island North	43	0.99		52.31	3	2	-	-	5	36.76
087 Stikine	4	2.17		114.29	-	-	-	-	-	-
088 Terrace	56	0.80		42.14	11	1	-	-	12	49.59
092 Nisga'a	6	0.76		40.00	-	1	-	-	1	35.71
094 Telegraph Creek	4	1.69		88.89	-	-	-	-	-	-
161 Vancouver - City Centre	191	0.94		49.41	36	10	-	-	46	53.06
162 Vancouver - Downtown E.side	163	1.36	*	71.33	29	7	-	-	36	72.58
163 Vancouver - North East	327	1.12	*	58.73	62	16	-	-	78	68.78
164 Vancouver - Westside	239	0.85	*	44.87	41	22	-	-	63	56.45
165 Vancouver - Midtown	286	1.07		56.31	37	16	-	-	53	53.54
166 Vancouver - South	390	1.18	*	62.18	48	28	-	-	76	58.69
201 Surrey	1,312	1.14	*	60.00	203	103	-	-	306	67.73
202 South Surrey/White Rock	110	0.85		44.66	26	6	-	-	32	58.72
PROVINCIAL TOTAL	10,593	1.00		52.59	1,667	612	1	-	2,280	56.08

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
LOW BIRTH WEIGHT LIVE BIRTHS BY LOCAL HEALTH AREA
 BRITISH COLUMBIA, 2000–2004



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

Births – Maternal Complications and Perinatal Conditions

Both maternal complications and perinatal complications 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 complications 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. Bear in mind 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.

It is immediately obvious that Assisted or Surgical Delivery and Maternal Abnormalities of the Pelvic Organs were the two most frequent diagnostic categories of maternal complications in 2005 and the previous five years (see Table 17). The proportions of age group births that had pelvic organ abnormalities increased with advancing maternal age from 1.3% for mothers under 20 to 19.3% 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. There was a steady increase in the likelihood of a complication as mothers got older.

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 was responsible for 4.9% of all maternal complications in 2000-2004 and 5.3% in 2005 as shown in Table 17.

Table 18 shows the incidence of live births with maternal complications by Local Health Area (LHA) for the period 2000-2004 and for the year 2005. The observed births columns show the number of live births with complications by the LHA in which the mother lived. 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. Expected births with maternal complications are not shown for 2000-2004 but they are presented for 2005. For more information see Expected Complications in the Glossary and the statistical test under Observed versus Expected Ratios in the Methodology section. Eight LHAs had statistically significantly low ratios in 2005 and six were significantly high. In the 2000-2004 period, 23 LHAs had significantly low ratios and 15 were significantly high.

The map in Figure 33 shows the LHAs arranged in five groups according to their 2000-2004 ratios of observed births with maternal complications versus the expected number of births with such conditions. LHAs with the highest rate of complications are coloured dark green; those with the lowest rates are dark grey. There is no obvious pattern. Not north-south or urban-rural; perhaps there is a coastal-interior difference, with the interior LHAs tending to have lower rates of maternal complications than the more coastal LHAs.

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 2000-2004 and 2005. The 2005 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 can exceed the number of live births with at least one perinatal condition. Note that mothers between 30 and 39 years old had the lowest proportion of live births with perinatal conditions and there were small increases in the proportions for older or younger mothers.

Intrauterine hypoxia and birth asphyxia accounted for most of the perinatal conditions shown in Table 19 in both time periods (48.0% in 2000-2004 and 43.5% in 2005). Conditions related to short gestation and those related to long gestation or high birth weight together accounted for over a third (34.9%) of the conditions in 2005 and somewhat less (27.1%) in the 2000-2004 period.

Table 20 shows the incidence of live births with perinatal conditions, by the mother's Local Health Area (LHA) of residence for the period 2000-2004 and for the year 2005. This table is in the same format as Table 18 with the same indicators and statistical computations so they will not be reviewed here. Refer to the Glossary for a definition of Expected Perinatal Conditions.

In 2005, there were 23 LHAs where the observed number of perinatal complications was significantly different from the expected number, and in 10 of these the observed number was significantly lower (see Table 20).

Figure 34 shows B.C. divided into its 89 LHAs, each coloured to show its allocation to one of five groups according to the value of its perinatal complications ratio for the 2000-2004 period. Those coloured dark green have the highest ratios; these are the areas where there was a high number of live births with perinatal complications relative to the expected number. The other LHAs are shown by colour to have a relatively lower number of these conditions, down to those coloured dark grey, with the lowest relative number of live births with perinatal complications. There was no obvious pattern of variation in the geographic distribution of the LHAs regarding perinatal complications.

TABLE 17
**MATERNAL COMPLICATIONS OF PREGNANCY AND
 DELIVERY IN LIVE BIRTHS BY AGE OF MOTHER**
 BRITISH COLUMBIA, 2000–2004 AND 2005

Maternal Complications	ICD-10 Code	2000–2004		2005						
		Total	Percent	Age of Mother (in Years)					Total	Percent
				<20	20–29	30–39	40+	N.S.		
Hypertension/hypertensive disorders in pregnancy	O10-O11, O13, O16	2,477	1.8	15	218	266	35	-	534	1.9
Edema and proteinuria without hypertension	O12	36	0.0	-	2	1	-	-	3	0.0
Pre-eclampsia/eclampsia	O14-O15	860	0.6	10	67	77	6	-	160	0.6
Hemorrhage in early pregnancy	O20	9	0.0	-	-	-	-	-	-	-
Hyperemesis gravidarum	O21	60	0.0	2	7	6	-	-	15	0.1
Other maternal disorders predominantly related to pregnancy	O22-O23, O25-O29, F179	1,564	1.1	7	166	147	13	-	333	1.2
Diabetes in pregnancy	O24	2,280	1.6	2	144	300	35	-	481	1.7
Multiple gestation and related complications	O30-O31	5,495	3.9	16	435	709	68	-	1,228	4.3
Fetal malpresentation	O32	7,092	5.1	37	542	673	62	-	1,314	4.6
Disproportion	O33	795	0.6	2	39	43	5	-	89	0.3
Maternal abnormality of pelvic organs	O34	20,374	14.6	17	1,450	3,040	311	-	4,818	16.9
Disorders of amniotic fluid and membranes	O40-O42	3,767	2.7	26	339	449	54	-	868	3.0
Placental disorders	O43-O45, O73	2,214	1.6	6	171	230	29	-	436	1.5
Antepartum hemorrhage	O46	345	0.2	2	37	43	3	-	85	0.3
Prolonged pregnancy	O48	1,879	1.3	6	133	129	20	-	288	1.0
Preterm labour and delivery	O60	8,526	6.1	94	772	842	63	-	1,771	6.2
Abnormalities of forces of labour	O62-O63	6,144	4.4	50	512	576	34	-	1,172	4.1
Obstructed labour	O64-O66	10,702	7.7	83	1000	1006	82	-	2,171	7.6
Intrapartum hemorrhage	O67	-	-	-	-	-	-	-	-	-
Evidence of fetal distress	O68	8,396	6.0	62	660	721	84	-	1,527	5.4
Cord complications	O69	2,561	1.8	13	193	215	17	-	438	1.5
Obstetrical trauma	O70-O71	1,409	1.0	11	131	124	1	-	267	0.9
Postpartum hemorrhage	O72	2,031	1.5	21	182	165	9	-	377	1.3
Assisted or surgical delivery - no cause given ¹	O81-O82	31,125	22.3	141	2,477	2,992	274	-	5,884	20.7
Maternal and puerperal infections	O85-O86, O98, A34	98	0.1	3	31	26	3	-	63	0.2
Other puerperal complications	O87-O92	61	0.0	-	6	8	1	-	15	0.1
Maternal noninfectious diseases complicating the pregnant state	O99	1,810	1.3	8	165	189	27	-	389	1.4
Elderly primigravida	Z355	6,791	4.9	1	5	1,287	211	-	1,504	5.3
Maternal drug use	O355	327	0.2	6	54	30	1	-	91	0.3
Other maternal complications	O00-O08, O35-O36, O47, O61, O74-O75, O95-O97	10,470	7.5	72	951	1,044	84	-	2,151	7.6
Total maternal complications		139,698	100.0	713	10,889	15,338	1,532	-	28,472	100.0
Live births with the above maternal complications	- Number	102,828		537	8,372	11,229	1,029	-	21,167	
	- Percent(*)	51.0		40.3	48.3	55.1	63.7		52.1	

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 2005

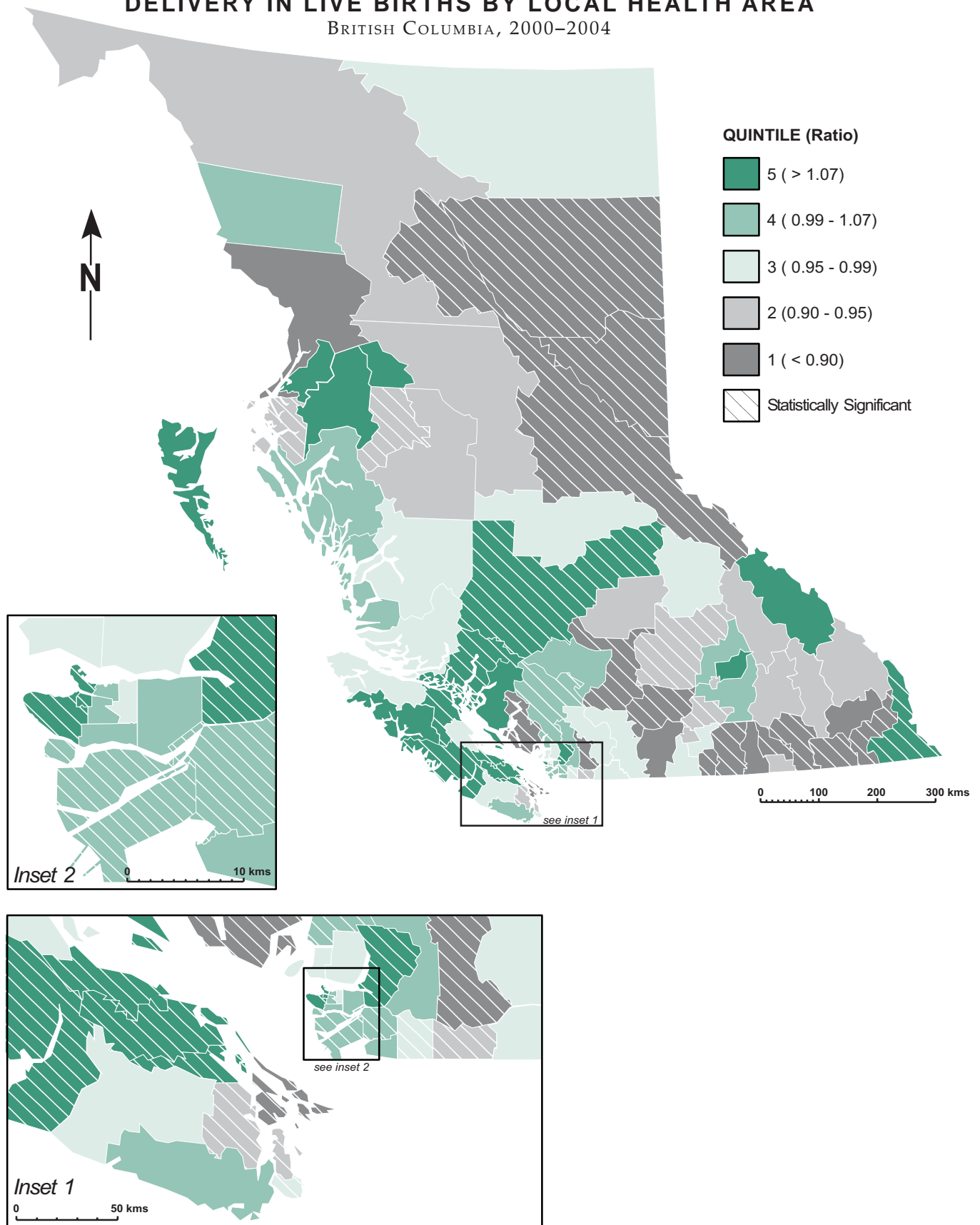
Each year the British Columbia Vital Statistics Agency produces a list of the most chosen baby names. The table below provides the top 25 names. Alternate spellings of names that sound alike (such as Catherine, Katherine, and Katharine) are not combined. The complete list for 2005, as well as lists for several previous years can be found at <http://www.vs.gov.bc.ca/babynames/index.html>. In 2005, 580 boys' names and 675 girls' names were chosen for five or more newborns.

Baby Boys			Baby Girls	
Rank	Name	Number	Name	Number
1	Ethan	292	Emma	245
2	Joshua	265	Emily	233
3	Matthew	241	Olivia	202
4	Jacob	222	Hannah	189
5	Nathan	206	Madison	177
6	Ryan	206	Ava	172
7	Alexander	202	Sarah	160
8	Liam	180	Ella	151
9	Nicholas	179	Isabella	149
10	Noah	179	Grace	137
11	Daniel	174	Sophia	134
12	Benjamin	172	Samantha	130
13	James	164	Maya	118
14	William	159	Abigail	117
15	Owen	154	Jessica	114
16	Dylan	153	Hailey	112
17	Logan	153	Chloe	107
18	Evan	152	Megan	97
19	Tyler	149	Julia	96
20	Jack	143	Lauren	93
21	Samuel	142	Rachel	90
22	Lucas	138	Elizabeth	89
23	Andrew	137	Sydney	88
24	Jordan	126	Taylor	86
25	Connor	125	Alyssa	83

56		2000-2004					2005				
Local Health Area		Observed	Ratio	(p)	Percent	Total Live Births	Observed	Expected	Ratio	(p)	Percent Live Births
001	Fernie	342	1.12	*	57.2	598	75	62.5	1.20		62.5
002	Cranbrook	431	0.76	*	38.7	1,113	103	113.0	0.91		47.5
003	Kimberley	119	0.84		43.0	277	26	31.8	0.82		42.6
004	Windermere	153	0.93		47.4	323	40	38.5	1.04		54.1
005	Creston	249	0.78	*	39.8	625	43	62.0	0.69	*	36.1
006	Kootenay Lake	85	0.93		47.2	180	11	21.9	0.50	*	26.2
007	Nelson	409	0.73	*	37.3	1,097	67	108.8	0.62	*	32.1
009	Castlegar	204	0.87	*	44.2	462	46	46.9	0.98		51.1
010	Arrow Lakes	90	0.93		47.4	190	13	12.5	1.04		54.2
011	Trail	336	0.95		48.6	692	74	81.7	0.91		47.1
012	Grand Forks	146	0.88		44.8	326	22	30.7	0.72	*	37.3
013	Kettle Valley	51	0.76	*	38.6	132	5	13.5	0.37	*	19.2
014	Southern Okanagan	287	0.88	*	45.0	638	64	54.7	1.17		61.0
015	Penticton	721	0.98		50.1	1,440	157	156.2	1.01		52.3
016	Keremeos	98	0.97		49.5	198	14	14.6	0.96		50.0
017	Princeton	54	0.87		44.6	121	16	18.2	0.88		45.7
018	Golden	174	1.08		55.1	316	36	40.6	0.89		46.2
019	Revelstoke	178	0.90		45.9	388	39	38.0	1.03		53.4
020	Salmon Arm	566	1.02		52.1	1,086	164	135.4	1.21	*	63.1
021	Armstrong - Spallumcheen	181	0.93		47.6	380	50	41.1	1.22		63.3
022	Vernon	1,332	1.01		51.7	2,577	300	278.0	1.08		56.2
023	Central Okanagan	3,109	0.91	*	46.6	6,676	706	730.0	0.97		50.4
024	Kamloops	2,101	0.93	*	47.4	4,429	442	455.1	0.97		50.6
025	100 Mile House	259	0.95		48.6	533	39	47.4	0.82		42.9
026	North Thompson	115	0.98		50.0	230	19	22.4	0.85		44.2
027	Cariboo - Chilcotin	828	1.07	*	54.9	1,509	133	139.5	0.95		49.6
028	Quesnel	554	0.95		48.7	1,137	97	117.7	0.82		42.9
029	Lillooet	148	1.02		52.1	284	29	29.2	0.99		51.8
030	South Cariboo	112	0.81	*	41.2	272	31	38.0	0.82		42.5
031	Merritt	231	0.85	*	43.6	530	57	60.9	0.94		48.7
032	Hope	187	0.97		49.7	376	42	39.1	1.08		56.0
033	Chilliwack	2,025	0.96		48.9	4,137	450	470.2	0.96		49.8
034	Abbotsford	3,773	0.93	*	47.2	7,986	753	834.6	0.90	*	47.0
035	Langley	2,984	0.96	*	49.0	6,091	618	625.9	0.99		51.4
037	Delta	2,661	1.06	*	54.1	4,916	485	470.2	1.03		53.7
038	Richmond	4,184	1.05	*	53.7	7,795	816	817.5	1.00		52.0
040	New Westminster	1,746	1.06	*	54.2	3,220	350	324.4	1.08		56.2
041	Burnaby	5,261	1.00		50.9	10,334	1,059	1,080.9	0.98		51.0
042	Maple Ridge	2,330	1.04		52.9	4,401	440	436.8	1.01		52.4
043	Coquitlam	5,714	1.07	*	54.6	10,472	1,155	1,036.1	1.11	*	58.0
044	North Vancouver	3,204	0.97		49.5	6,469	617	611.8	1.01		52.5
045	West Vancouver-Bowen Is.	739	0.96		49.1	1,504	153	155.7	0.98		51.2
046	Sunshine Coast	405	0.87	*	44.6	908	87	100.5	0.87		45.1
047	Powell River	411	1.07		54.7	751	71	70.8	1.00		52.2
048	Howe Sound	1,067	1.07	*	54.4	1,960	213	198.4	1.07		55.9
049	Bella Coola Valley	120	0.99		50.4	238	19	28.1	0.68		35.2
050	Queen Charlotte	182	1.07		54.8	332	28	24.5	1.14		59.6
051	Snow Country	18	0.84		42.9	42	5	3.1	1.60		83.3
052	Prince Rupert	477	0.90	*	46.1	1,034	86	78.1	1.10		57.3
053	Upper Skeena	214	1.13		57.7	371	48	38.5	1.25		64.9
054	Smithers	527	0.90	*	45.9	1,147	116	120.8	0.96		50.0
055	Burns Lake	220	0.95		48.6	453	35	45.8	0.76		39.8
056	Nechako	545	0.94		47.9	1,137	116	119.8	0.97		50.4
057	Prince George	2,393	0.89	*	45.6	5,249	516	559.2	0.92		48.0
059	Peace River South	597	0.84	*	42.7	1,398	91	137.5	0.66	*	34.5
060	Peace River North	1,007	0.80	*	40.9	2,460	214	277.0	0.77	*	40.2
061	Greater Victoria	4,226	0.96	*	49.0	8,616	939	916.4	1.02		53.4
062	Sooke	1,433	0.99		50.5	2,837	350	340.0	1.03		53.6
063	Saanich	954	0.94	*	47.8	1,996	196	215.0	0.91		47.5
064	Gulf Islands	180	0.80	*	40.8	441	31	43.7	0.71		36.9
065	Cowichan	1,111	0.90	*	45.9	2,420	220	240.6	0.91		47.6
066	Lake Cowichan	108	0.98		50.0	216	23	24.5	0.94		48.9
067	Ladysmith	382	1.11	*	56.5	676	91	86.4	1.05		54.8
068	Nanaimo	2,592	1.28	*	65.2	3,978	513	424.9	1.21	*	62.9
069	Qualicum	713	1.24	*	63.2	1,128	135	121.3	1.11		57.9
070	Alberni	812	1.09	*	55.7	1,457	200	174.9	1.14		59.5
071	Courtenay	1,140	0.97		49.7	2,293	215	243.2	0.88		46.0
072	Campbell River	1,070	1.16	*	59.1	1,810	201	170.8	1.18	*	61.3
075	Mission	944	0.89	*	45.3	2,085	200	231.7	0.86	*	44.9
076	Agassiz - Harrison	213	0.96		49.2	433	39	47.4	0.82		42.9
077	Summerland	173	0.95		48.6	356	31	34.9	0.89		46.3
078	Enderby	160	1.08		55.0	291	36	39.1	0.92		48.0
080	Kitimat	286	1.06		54.2	528	39	48.4	0.81		41.9
081	Fort Nelson	234	0.97		49.7	471	55	56.2	0.98		50.9
083	Central Coast	61	1.07		54.5	112	16	15.6	1.02		53.3
084	Vancouver Island West	93	1.08		55.0	169	15	14.1	1.07		55.6
085	Vancouver Island North	403	0.96		49.0	822	70	70.8	0.99		51.5
087	Stikine	17	0.95		48.6	35	5	4.2	1.20		62.5
088	Terrac	728	1.07		54.8	1,329	118	126.0	0.94		48.8
092	Nisga'a	85	1.11		56.7	150	12	14.6	0.82		42.9
094	Telegraph Creek	24	1.04		53.3	45	4	4.2	0.96		50.0
161	Vancouver - City Centre	2,288	1.16	*	59.2	3,866	513	451.4	1.14	*	59.2
162	Vancouver - Downtown E.side	1,212	1.04		53.0	2,285	244	258.3	0.94		49.2
163	Vancouver - North East	2,800	0.99		50.3	5,568	598	590.4	1.01		52.7
164	Vancouver - Westside	2,915	1.07	*	54.7	5,326	616	581.1	1.06		55.2
165	Vancouver - Midtown	2,677	1.03		52.7	5,079	518	515.5	1.00		52.3
166	Vancouver - South	3,259	1.02		52.0	6,272	651	674.3	0.97		50.3
201	Surrey	11,547	1.03	*	52.8	21,867	2,462	2,352.4	1.05	*	54.5
202	South Surrey/White Rock	1,296	1.03		52.6	2,463	307	283.8	1.08		56.3
PROVINCIAL TOTAL		102,828	1.00		51.0	201,439	21,167	21,167.0	1.00		52.1
											40,653

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 the 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**
 BRITISH COLUMBIA, 2000–2004



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

TABLE 19
PERINATAL COMPLICATIONS IN LIVE BIRTHS BY AGE OF MOTHER
 BRITISH COLUMBIA, 2000–2004 AND 2005

Perinatal Complications	ICD-10 Code	2000–2004		2005						
				Age of Mother (in Years)					Total	Percent
		Total	Percent	<20	20–29	30–39	40+	N.S.		
Fetus/newborn affected by maternal conditions that may be unrelated to present pregnancy	P00	58	0.1	1	6	-	-	-	7	0.0
Complications of pregnancy, labour and delivery	P01, P03	12,204	13.7	57	988	1,306	119	-	2,470	13.6
Fetus/newborn affected by complications of placenta, cord and membranes	P02	3,875	4.4	20	275	337	44	-	676	3.7
Fetus affected by noxious influences transmitted via placenta or breast milk	P04	11	0.0	-	4	1	-	-	5	0.0
Slow fetal growth and malnutrition	P05	4,426	5.0	24	230	206	26	-	486	2.7
Perinatal disorders related to short gestation	P072, P073	13,832	15.5	121	1,208	1,523	160	-	3,012	16.6
Disorders related to long gestation or high birth weight	P08	10,311	11.6	97	1,398	1,715	111	-	3,321	18.3
Perinatal birth trauma	P10-P15	291	0.3	3	28	18	1	-	50	0.3
Intrauterine hypoxia and birth asphyxia	P20-P21	42,684	48.0	295	3,543	3,734	308	-	7,880	43.5
Respiratory conditions of fetus and newborn	P22-P28	709	0.8	8	51	55	3	-	117	0.6
Cardiovascular disorders originating in the perinatal period	P29	-	-	-	-	-	-	-	-	-
Infections specific to the perinatal period	P35-P39	53	0.1	-	1	7	-	-	8	0.0
Fetal and neonatal hemorrhage	P50-P52, P54	120	0.1	1	10	5	1	-	17	0.1
Perinatal jaundice/other hematological disorders	P53, P55-P61	58	0.1	-	5	3	-	-	8	0.0
Perinatal endocrine and metabolic disorders	P70-P74	29	0.0	-	5	3	-	-	8	0.0
Digestive system disorders of fetus and newborn	P76-P78	4	0.0	-	-	-	-	-	-	-
Perinatal conditions of the integument and of temperature regulation	P80-P83	118	0.1	1	7	11	-	-	19	0.1
Other disorders originating in the perinatal period	P90-P96	205	0.2	2	13	21	1	-	37	0.2
All Perinatal Complications		88,988	100.0	630	7,772	8,945	774	-	18,121	100.0
Live births with the above perinatal complications	- Number	68,835		512	6,135	6,979	581	-	14,207	
	- Percent(*)	34.2		38.4	35.4	34.2	36.0		34.9	

Note: Percent based upon perinatal complications. 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

BIRTHS BY MOTHER'S COUNTRY OF BIRTH AND DEATHS BY DECEDENT'S COUNTRY OF BIRTH BRITISH COLUMBIA, 2005

Area	Province/Country	Births	Deaths
Canada	Total	26,704	20,121
	British Columbia	18,760	7,759
	Alberta	2,360	2,889
	Saskatchewan	777	3,840
	Ontario	2,531	2,081
	Manitoba	819	2,088
	Quebec	657	668
	Nova Scotia	293	368
	New Brunswick	161	209
	Newfoundland	183	112
	Yukon	81	28
	Prince Edward Island	36	51
	Northwest Territories and Nunavut	44	17
	Unknown Province	2	11
North and Central America	Total	1,422	915
	United States	683	749
	Other North and Central American Countries	463	101
South America		276	65
Europe	Total	1,988	6,315
	England	445	1,902
	Scotland	91	634
	Other United Kingdom	182	373
	Germany	198	675
	Poland	121	275
	Former USSR	122	233
	Scandinavian Countries	33	320
	Italy	24	314
	Former Yugoslavia	66	85
	Other European Countries	706	1,504
Asia and the Middle East	Total	8,997	2,224
	India	2,712	513
	China	1,817	925
	Philippines	1,224	140
	Vietnam	603	59
	Hong Kong	448	152
	Korea	418	72
	Japan	316	69
	Taiwan	287	36
	Other Asian and Middle Eastern Countries	1,172	258
Africa		519	143
Oceania	Total	431	166
	Fiji	251	86
	Australia	173	80
	Other Oceanic Countries	7	-
Unknown		592	149
Total		40,653	30,033

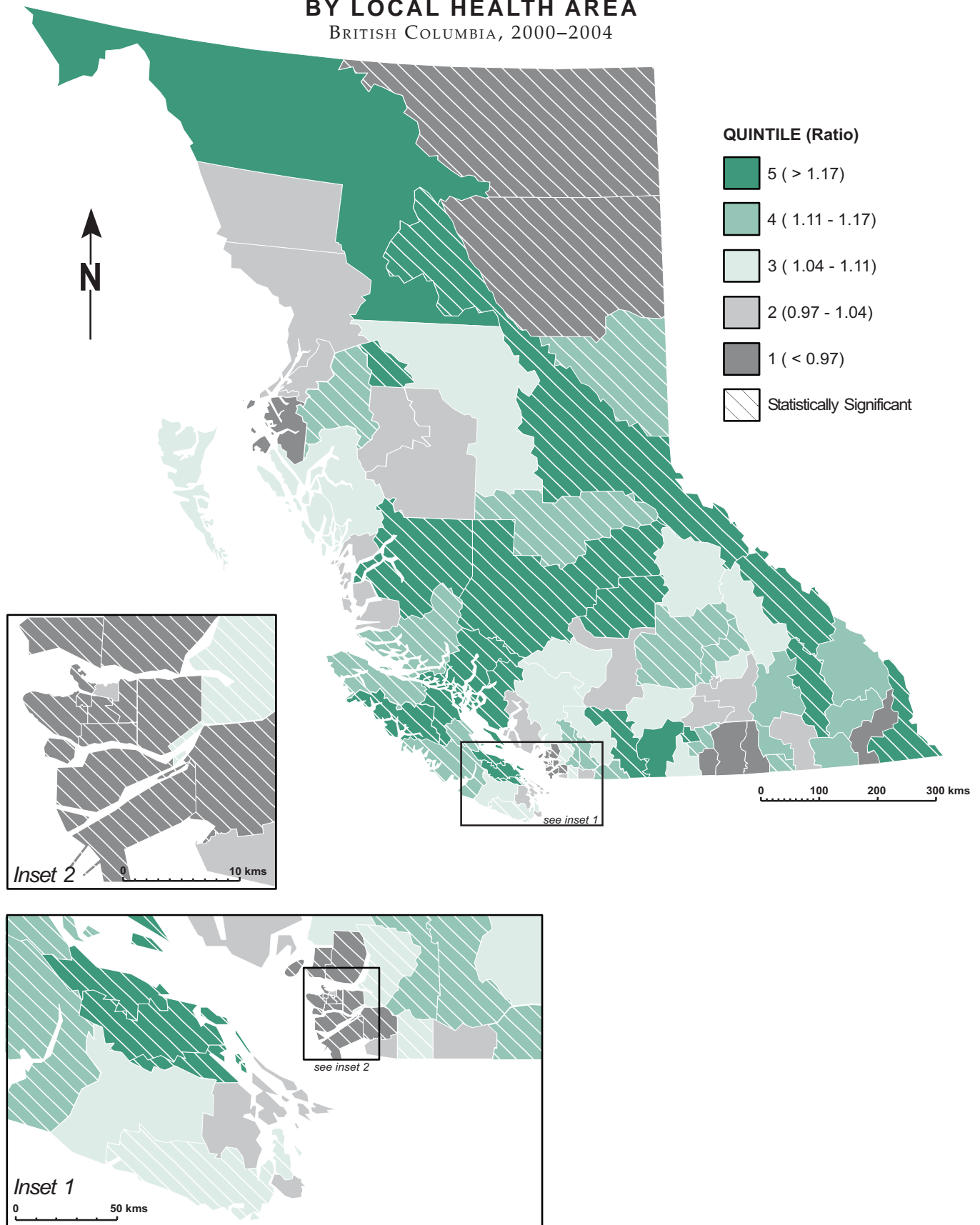
Note: Births consist of live births only. Non-residents are excluded.

PERINATAL COMPLICATIONS IN LIVE BIRTHS BY LOCAL HEALTH AREA,
BRITISH COLUMBIA, 2000-2004 AND 2005

60	Local Health Area	2000-2004					2005					
		Observed	Ratio	(p)	Percent	Total Live Births	Observed	Expected	Ratio	(p)	Percent	Total Live Births
		Births					Births	Births				
001	Fernie	268	1.31	*	44.8	598	52	41.9	1.24		43.3	120
002	Cranbrook	354	0.93		31.8	1,113	93	75.8	1.23	*	42.9	217
003	Kimberley	109	1.15		39.4	277	24	21.3	1.13		39.3	61
004	Windermere	123	1.11		38.1	323	27	25.9	1.04		36.5	74
005	Creston	238	1.11		38.1	625	43	41.6	1.03		36.1	119
006	Kootenay Lake	77	1.25	*	42.8	180	12	14.7	0.82		28.6	42
007	Nelson	379	1.01		34.5	1,097	73	73.0	1.00		34.9	209
009	Castlegar	175	1.11		37.9	462	35	31.5	1.11		38.9	90
010	Arrow Lakes	72	1.11		37.9	190	9	8.4	1.07		37.5	24
011	Trail	269	1.14	*	38.9	692	60	54.9	1.09		38.2	157
012	Grand Forks	97	0.87		29.8	326	12	20.6	0.58		20.3	59
013	Kettle Valley	39	0.86		29.5	132	6	9.1	0.66		23.1	26
014	Southern Okanagan	209	0.96		32.8	638	29	36.7	0.79		27.6	105
015	Penticton	552	1.12	*	38.3	1,440	110	104.8	1.05		36.7	300
016	Keremeos	73	1.08		36.9	198	9	9.8	0.92		32.1	28
017	Princeton	49	1.19		40.5	121	12	12.2	0.98		34.3	35
018	Golden	148	1.37	*	46.8	316	35	27.3	1.28		44.9	78
019	Revelstoke	145	1.09		37.4	388	33	25.5	1.29		45.2	73
020	Salmon Arm	420	1.13	*	38.7	1,086	108	90.9	1.19		41.5	260
021	Armstrong - Spallumcheen	134	1.03		35.3	380	32	27.6	1.16		40.5	79
022	Vernon	907	1.03		35.2	2,577	195	186.6	1.04		36.5	534
023	Central Okanagan	2,215	0.97		33.2	6,676	486	490.0	0.99		34.7	1,402
024	Kamloops	1,678	1.11	*	37.9	4,429	310	305.4	1.01		35.5	874
025	100 Mile House	235	1.29	*	44.1	533	36	31.8	1.13		39.6	91
026	North Thompson	86	1.09		37.4	230	12	15.0	0.80		27.9	43
027	Cariboo - Chilcotin	717	1.39	*	47.5	1,509	128	93.7	1.37	*	47.8	268
028	Quesnel	438	1.13	*	38.5	1,137	78	79.0	0.99		34.5	226
029	Lillooet	107	1.10		37.7	284	20	19.6	1.02		35.7	56
030	South Cariboo	91	0.98		33.5	272	28	25.5	1.10		38.4	73
031	Merritt	189	1.04		35.7	530	43	40.9	1.05		36.8	117
032	Hope	154	1.20	*	41.0	376	31	26.2	1.18		41.3	75
033	Chilliwack	1,638	1.16	*	39.6	4,137	379	315.6	1.20	*	42.0	903
034	Abbotsford	2,693	0.99		33.7	7,986	582	560.2	1.04		36.3	1,603
035	Langley	2,239	1.08	*	36.8	6,091	471	420.1	1.12	*	39.2	1,202
037	Delta	1,474	0.88	*	30.0	4,916	282	315.6	0.89		31.2	903
038	Richmond	2,204	0.83	*	28.3	7,795	462	548.7	0.84	*	29.4	1,570
040	New Westminster	1,214	1.10	*	37.7	3,220	221	217.7	1.02		35.5	623
041	Burnaby	3,060	0.87	*	29.6	10,334	595	725.5	0.82	*	28.7	2,076
042	Maple Ridge	1,669	1.11	*	37.9	4,401	333	293.2	1.14	*	39.7	839
043	Coquitlam	3,893	1.09	*	37.2	10,472	777	695.4	1.12	*	39.0	1,990
044	North Vancouver	2,045	0.93	*	31.6	6,469	334	410.6	0.81	*	28.4	1,175
045	West Vancouver-Bowen Is.	450	0.88	*	29.9	1,504	81	104.5	0.78	*	27.1	299
046	Sunshine Coast	317	1.02		34.9	908	66	67.4	0.98		34.2	193
047	Powell River	313	1.22	*	41.7	751	58	47.5	1.22		42.6	136
048	Howe Sound	711	1.06		36.3	1,960	132	133.1	0.99		34.6	381
049	Bella Coola Valley	105	1.29	*	44.1	238	26	18.9	1.38		48.1	54
050	Queen Charlotte	121	1.07		36.4	332	20	16.4	1.22		42.6	47
051	Snow Country	14	0.98		33.3	42	3	2.1	1.43		50.0	6
052	Prince Rupert	336	0.95		32.5	1,034	62	52.4	1.18		41.3	150
053	Upper Skeena	170	1.34	*	45.8	371	38	25.9	1.47	*	51.4	74
054	Smithers	382	0.97		33.3	1,147	85	81.1	1.05		36.6	232
055	Burns Lake	157	1.01		34.7	453	26	30.8	0.85		29.5	88
056	Nechako	411	1.06		36.1	1,137	92	80.4	1.14		40.0	230
057	Prince George	2,150	1.20	*	41.0	5,249	460	375.3	1.23	*	42.8	1,074
059	Peace River South	537	1.12	*	38.4	1,398	114	92.3	1.24	*	43.2	264
060	Peace River North	734	0.87	*	29.8	2,460	159	185.9	0.86	*	29.9	532
061	Greater Victoria	2,966	1.01		34.4	8,616	637	615.1	1.04		36.2	1,760
062	Sooke	1,038	1.07	*	36.6	2,837	250	228.2	1.10		38.3	653
063	Saanich	737	1.08	*	36.9	1,996	137	144.3	0.95		33.2	413
064	Gulf Islands	157	1.04		35.6	441	24	29.4	0.82		28.6	84
065	Cowichan	843	1.02		34.8	2,420	181	161.5	1.12		39.2	462
066	Lake Cowichan	80	1.08		37.0	216	23	16.4	1.40		48.9	47
067	Ladysmith	274	1.19	*	40.5	676	63	58.0	1.09		38.0	166
068	Nanaimo	1,937	1.42	*	48.7	3,978	359	285.2	1.26	*	44.0	816
069	Qualicum	526	1.36	*	46.6	1,128	94	81.4	1.15		40.3	233
070	Alberni	553	1.11	*	38.0	1,457	144	117.4	1.23	*	42.9	336
071	Courtenay	897	1.14	*	39.1	2,293	162	163.2	0.99		34.7	467
072	Campbell River	821	1.33	*	45.4	1,810	140	114.6	1.22	*	42.7	328
075	Mission	789	1.11	*	37.8	2,085	165	155.5	1.06		37.1	445
076	Agassiz - Harrison	161	1.09		37.2	433	44	31.8	1.38	*	48.4	91
077	Summerland	144	1.18	*	40.4	356	19	23.4	0.81		28.4	67
078	Enderby	106	1.07		36.4	291	27	26.2	1.03		36.0	75
080	Kitimat	198	1.10		37.5	528	32	32.5	0.98		34.4	93
081	Fort Nelson	109	0.68	*	23.1	471	32	37.7	0.85		29.6	108
083	Central Coast	39	1.02		34.8	112	16	10.5	1.53		53.3	30
084	Vancouver Island West	79	1.37	*	46.7	169	12	9.4	1.27		44.4	27
085	Vancouver Island North	328	1.17	*	39.9	822	59	47.5	1.24		43.4	136
087	Stikine	17	1.42	*	48.6	35	2	2.8	0.72		25.0	8
088	Terrace	524	1.15	*	39.4	1,329	98	84.6	1.16		40.5	242
092	Nisga'a	51	0.99		34.0	150	14	9.8	1.43		50.0	28
094	Telegraph Creek	15	0.98		33.3	45	3	2.8	1.07		37.5	8
161	Vancouver - City Centre	1,246	0.94	*	32.2	3,866	285	303.0	0.94		32.9	867
162	Vancouver - Downtown E.side	765	0.98		33.5	2,285	181	173.3	1.04		36.5	496
163	Vancouver - North East	1,526	0.80	*	27.4	5,568	318	396.3	0.80	*	28.0	1,134
164	Vancouver - Westside	1,673	0.92	*	31.4	5,326	350	390.0	0.90	*	31.4	1,116
165	Vancouver - Midtown	1,498	0.86	*	29.5	5,079	304	346.0	0.88	*	30.7	990
166	Vancouver - South	1,751	0.82	*	27.9	6,272	363	452.6	0.80	*	28.0	1,295
201	Surrey	6,326	0.85	*	28.9	21,867	1,432	1,578.9	0.91	*	31.7	4,518
202	South Surrey/White Rock	842	1.00		34.2	2,463	194	190.5	1.02		35.6	545
	PROVINCIAL TOTAL	68,835	1.00		34.2	201,439	14,207	14,207.0	1.00		34.9	40,653

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

FIGURE 34
**PERINATAL COMPLICATIONS IN LIVE BIRTHS
 BY LOCAL HEALTH AREA**
 BRITISH COLUMBIA, 2000–2004



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

