

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. Over 80 percent of live births in 2007 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 2007 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 (50.1 percent) in 2007 were to mothers 30 to 39 years old and 42.6 percent were to mothers in their twenties. Only 3.4 percent were to mothers less than 20 years and 4.0 percent to those 40 or older. For fathers, over half (52.6 percent) were in their thirties, more than a quarter (27.5 percent) were in their twenties, 13.7 percent were in their forties or older and 1.0 percent were less than 20 years old. In 5.3 percent of births, the father's age was not indicated.

Less than one percent (0.8 percent) of births (327) were to couples who were both in their teens; births to couples in which at least one person was a teen, made up 3.6 percent (1,558) of births.

While there were only 103 births (0.2 percent) to mothers age 45 years old and over, 3.9 percent (1,704) of all newborns had fathers in that age group.

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. In 2007, 5.0 percent of births to mothers 35 years and older were multiple live births; whereas, 2.7 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 2007, but most births (96.8 percent) are still singletons.

Table 10 shows the 2007 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 5 year period 2002-2006 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 5 year period 2002-2006 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 209.6 per 1,000 live births in 1986 to 310.6 in 2007 (see Figure 11).

Table 12 shows live births by the Local Health Area 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 2007 to residents of each LHA and the birth rate per 1,000 population. The LHA with the highest live birth rate was more than four times the rate of the lowest. For more comparisons of cesarean rates see also Figures 11, 12, and 13.

In Figure 30 the Local Health Areas (LHAs) are grouped by their ratio of observed number of cesarean live births over expected number of cesarean live births for 2007. 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, 2007

Area	Province/Country	Births
Canada	Total	28,813
	British Columbia	20,520
	Ontario	2,670
	Alberta	2,483
	Manitoba	844
	Saskatchewan	839
	Quebec	638
	Nova Scotia	300
	Newfoundland & Labrador	187
	New Brunswick	162
	Yukon	77
	Northwest Territories and Nunavut	51
	Prince Edward Island	39
	Unknown Province	3
North and Central America	Total	1,228
	United States	690
	Other North and Central American Countries	538
South America	Total	269
Europe	Total	1,902
	England	433
	Other United Kingdom	273
	Germany	221
	Romania	138
	Poland	118
	Scandinavian Countries	69
	Slovakia	57
	Netherlands	50
	France	47
	Ukraine	46
	Switzerland	45
	Other European Countries	405
Asia and the Middle East	Total	9,855
	India	2,654
	China	2,301
	Philippines	1,307
	Vietnam	652
	Japan	351
	Hong Kong	326
	Taiwan	315
	Korea	255
	Iran	247
	Pakistan	228
	Other Asian and Middle Eastern Countries	1,219
Africa	Total	563
Oceania	Total	430
	Fiji	245
	Australia	119
	Other Oceanic Countries	66
Unknown	Total	457
Total		43,517

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

TABLE 7
BIRTHS BY AGE OF MOTHER AND LIVE BIRTHS BY BIRTH ORDER
 BRITISH COLUMBIA, 2007

Age of Mother	Birth Order										Total Live Births	Stillbirths	Total Births
	1	2	3	4	5	6	7	8	9+	N.S.			
13	2	-	-	-	-	-	-	-	-	-	2	1	3
14	9	-	-	-	-	-	-	-	-	-	9	-	9
15	45	-	-	-	-	-	-	-	-	-	45	-	45
16	133	10	1	-	-	-	-	-	-	-	144	1	145
17	236	15	2	-	-	-	-	-	-	-	253	1	254
18	360	56	3	-	-	-	-	-	-	-	419	1	420
19	479	107	7	1	-	-	-	-	-	-	594	5	599
20	648	175	19	6	-	-	-	-	-	-	848	4	852
21	782	263	58	5	2	1	-	-	-	-	1,111	7	1,118
22	758	409	69	12	1	-	-	-	-	-	1,249	11	1,260
23	873	447	110	26	7	-	-	-	-	-	1,463	12	1,475
24	930	571	166	38	8	2	-	-	-	-	1,715	15	1,730
25	1,123	635	219	50	12	3	-	-	-	-	2,042	15	2,057
26	1,159	726	251	55	27	6	-	1	-	-	2,225	15	2,240
27	1,274	808	279	91	21	11	3	-	-	-	2,487	16	2,503
28	1,272	968	254	92	15	9	4	1	1	-	2,616	20	2,636
29	1,319	995	342	70	23	9	7	2	3	-	2,770	18	2,788
30	1,340	1,023	383	119	32	7	2	2	1	-	2,909	24	2,933
31	1,190	1,156	395	99	39	9	4	3	-	-	2,895	22	2,917
32	1,115	1,140	433	104	43	16	6	3	4	1	2,865	21	2,886
33	1,028	1,079	371	122	31	13	5	1	1	-	2,651	25	2,676
34	875	1,049	380	102	30	11	12	2	4	-	2,465	15	2,480
35	768	981	373	115	28	19	9	4	1	-	2,298	19	2,317
36	643	851	324	96	39	17	5	1	3	-	1,979	22	2,001
37	504	673	265	84	25	13	6	4	3	-	1,577	17	1,594
38	353	529	228	70	18	16	5	7	4	-	1,230	15	1,245
39	257	416	154	57	18	9	3	1	1	-	916	9	925
40	185	291	111	43	14	4	4	2	7	-	661	6	667
41	125	171	80	26	11	10	1	1	6	-	431	5	436
42	68	118	51	18	10	3	5	2	6	-	281	3	284
43	43	70	32	14	6	2	1	-	5	-	173	-	173
44	21	37	14	8	6	1	-	1	3	-	91	1	92
45	24	7	10	6	2	-	-	-	4	-	53	3	56
45+	21	16	8	4	-	-	-	-	1	-	50	1	51
TOTAL	19,962	15,792	5,392	1,533	468	191	82	38	58	1	43,517	350	43,867
PERCENT	45.9	36.3	12.4	3.5	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, 2007

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	-	-	-	1	-	-	-	3	0.0
15-19	6	319	82	6	2	1	-	-	-	416	1.0
20-24	-	568	1,977	541	96	17	1	-	-	3,200	7.4
25-29	-	173	2,397	4,812	1,151	199	15	1	-	8,748	20.1
30-34	-	42	816	4,281	6,284	1,263	98	7	-	12,791	29.4
35-39	-	12	280	1,405	4,313	3,742	354	7	-	10,113	23.2
40-44	-	10	87	389	1,180	1,866	701	19	-	4,252	9.8
45+	-	2	41	158	381	664	394	64	-	1,704	3.9
N.S.	4	328	706	548	378	247	74	5	-	2,290	5.3
TOTAL	11	1,455	6,386	12,140	13,785	8,000	1,637	103	-	43,517	
Percent	0.0	3.3	14.7	27.9	31.7	18.4	3.8	0.2			100.0
Out-of-Wedlock	8	1,210	3,610	3,202	2,229	1,339	337	22	-	11,957	

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 1,706 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, 2007

Age of Mother	Kind of Birth				Total
	Single	Twin	Triplets+	N.S.	
< 15	11	-	-	-	11
15-19	1,435	20	-	-	1,455
20-24	6,239	147	-	-	6,386
25-29	11,834	291	15	-	12,140
30-34	13,361	421	3	-	13,785
35-39	7,643	354	2	1	8,000
40-44	1,525	112	-	-	1,637
45 +	85	18	-	-	103
N.S.	-	-	-	-	-
TOTAL	42,133	1,363	20	1	43,517

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.

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Local Health Area	2002-2006 Teenage Fertility Rate (15-19 yrs)			2007 ASFR ¹						TFR ²	
	Observed	ASFR ¹	(p)	15-19	20-24	25-29	30-34	35-39	40-44	Rate	(p)
001 Fernie	34	13.63		2.07	77.67	117.51	94.74	38.70	5.42	1,680.57	
002 Cranbrook	78	16.86	*	23.23	63.88	130.37	85.23	33.95	4.08	1,703.71	*
003 Kimberley	13	11.14		3.83	52.91	142.86	97.56	55.56	-	1,763.58	
004 Windermere	16	10.81		20.48	70.77	101.08	71.20	20.98	8.13	1,463.18	
005 Creston	61	31.14	*	31.55	154.17	150.63	70.37	12.12	13.23	2,160.33	*
006 Kootenay Lake	7	13.81		-	120.00	142.86	103.17	37.04	17.86	2,104.63	
007 Nelson	26	6.24	*	10.90	34.68	93.02	102.80	37.67	15.04	1,470.57	
009 Castlegar	9	4.36	*	2.33	70.65	93.65	104.06	32.11	1.93	1,523.64	
010 Arrow Lakes	4	6.75		-	155.17	116.28	125.00	52.94	6.62	2,280.08	*
011 Trail	29	8.15		11.85	38.11	95.98	106.56	33.00	4.15	1,448.28	
012 Grand Forks	23	17.29		16.60	63.83	86.96	113.21	24.90	9.32	1,574.02	
013 Kettle Valley	8	17.20		11.49	83.33	119.40	65.79	32.61	-	1,563.14	
014 Southern Okanagan	32	13.58		12.89	63.95	125.64	91.55	25.86	3.26	1,615.80	
015 Penticton	85	13.87	*	11.03	68.43	96.90	71.36	32.51	4.75	1,424.92	
016 Keremeos	7	12.28		32.89	132.53	135.92	114.94	-	-	2,081.45	
017 Princeton	12	17.86		27.59	50.51	156.25	42.11	22.39	-	1,494.17	
018 Golden	11	9.61		13.51	50.85	85.11	59.70	45.11	3.41	1,288.47	
019 Revelstoke	20	13.68		7.27	62.02	59.83	92.59	35.34	6.01	1,315.26	
020 Salmon Arm	55	10.63		8.77	77.02	120.37	77.89	36.50	8.81	1,646.77	
021 Armstrong - Spallumcheen	9	5.28	*	8.40	95.24	161.43	78.60	31.03	7.59	1,911.54	*
022 Vernon	118	11.42		8.60	61.24	116.88	76.48	35.15	3.73	1,510.34	
023 Central Okanagan	249	9.33	*	10.16	50.86	88.20	100.96	41.38	7.08	1,493.20	
024 Kamloops	220	11.80		10.42	52.48	104.82	94.12	33.03	5.49	1,501.80	
025 100 Mile House	34	14.15		15.15	79.86	137.81	82.19	19.09	7.07	1,705.87	
026 North Thompson	13	17.22		26.14	142.86	207.32	104.84	28.17	18.52	2,639.22	*
027 Cariboo - Chilcotin	113	22.44	*	32.39	81.32	123.70	97.74	27.87	5.75	1,843.91	*
028 Quesnel	87	19.82	*	28.40	106.51	133.12	83.46	23.03	1.11	1,878.17	*
029 Lillooet	28	32.18	*	17.75	126.98	115.38	90.91	13.25	-	1,821.37	
030 South Cariboo	33	27.48	*	37.74	84.85	114.75	60.98	33.52	3.88	1,678.55	
031 Merritt	49	23.34	*	17.20	112.46	115.13	90.63	29.73	2.22	1,836.89	*
032 Hope	45	30.82	*	22.47	80.81	103.45	97.83	26.55	13.79	1,724.48	
033 Chilliwack	287	21.31	*	20.08	83.33	137.56	103.07	40.01	3.44	1,937.46	*
034 Abbotsford	256	11.22		16.87	69.96	130.15	99.28	36.97	7.07	1,801.52	*
035 Langley	169	7.88	*	5.66	38.53	108.51	118.99	46.45	6.75	1,624.46	*
037 Delta	70	3.71	*	3.69	21.31	90.12	119.02	52.45	8.15	1,473.74	
038 Richmond	77	2.59	*	2.43	15.03	62.82	117.86	58.82	10.17	1,335.59	*
040 New Westminster	71	9.77		14.81	37.00	66.49	88.55	56.32	16.30	1,397.33	
041 Burnaby	166	5.08	*	5.14	18.02	59.63	109.25	64.34	13.66	1,350.27	*
042 Maple Ridge	123	8.47	*	6.77	34.87	123.69	109.53	41.36	10.52	1,633.64	*
043 Coquitlam	160	4.43	*	4.18	22.79	75.89	128.31	57.32	8.96	1,487.23	
044 North Vancouver	64	2.96	*	1.78	15.31	50.31	109.57	71.51	14.15	1,313.12	*
045 West Vancouver-Bowen Is.	22	2.50	*	3.07	11.52	40.41	125.41	67.87	13.61	1,309.45	
046 Sunshine Coast	37	8.32		6.28	60.93	113.55	87.30	39.26	9.74	1,585.33	
047 Powell River	43	14.15		12.97	55.07	102.72	69.51	36.91	1.27	1,392.19	
048 Howe Sound	65	14.83	*	11.70	43.01	62.91	113.81	82.49	13.93	1,639.26	*
049 Bella Coola Valley	42	63.54	*	61.40	78.95	114.29	36.59	37.74	19.05	1,740.03	
050 Queen Charlotte	18	22.96	*	26.49	42.25	104.48	56.82	38.46	-	1,342.50	
051 Snow Country	1	13.16		83.33	250.00	-	117.65	43.48	-	2,472.29	
052 Prince Rupert	124	40.27	*	34.01	101.66	145.35	83.15	32.43	8.83	2,027.20	*
053 Upper Skeena	41	39.61	*	37.34	116.28	90.91	49.45	57.69	4.65	1,781.63	*
054 Smithers	75	22.87	*	18.69	90.73	153.32	111.78	41.24	8.31	2,120.31	*
055 Burns Lake	32	21.74	*	27.95	90.91	112.90	83.33	47.43	3.28	1,829.03	*
056 Nechako	90	31.55	*	33.10	144.77	126.85	118.61	35.79	3.51	2,313.10	*
057 Prince George	338	17.93	*	16.57	67.06	104.54	85.76	37.95	4.40	1,581.43	*
059 Peace River South	126	25.50	*	17.71	109.56	139.42	80.23	31.18	7.20	1,926.53	*
060 Peace River North	183	29.21	*	37.63	123.33	139.03	95.20	38.61	9.48	2,216.36	*
061 Greater Victoria	276	8.64	*	6.17	25.57	55.62	74.95	51.37	11.55	1,126.16	*
062 Sooke	101	10.20		7.92	54.78	101.42	99.72	39.01	6.61	1,547.27	
063 Saanich	76	7.67	*	8.98	26.18	83.33	105.57	46.15	1.87	1,360.49	
064 Gulf Islands	12	6.37	*	5.03	40.96	109.24	78.08	52.48	17.74	1,517.60	
065 Cowichan	174	17.90	*	19.35	71.34	124.91	95.34	40.88	7.70	1,797.54	*
066 Lake Cowichan	15	14.87		9.09	88.89	105.63	50.96	26.88	4.44	1,429.48	
067 Ladysmith	57	21.11	*	10.56	92.42	144.28	78.30	33.71	4.65	1,819.59	*
068 Nanaimo	228	13.54	*	14.49	55.16	86.20	92.18	39.39	5.31	1,463.60	
069 Qualicum	48	8.70		8.29	63.23	109.77	72.77	32.48	7.02	1,467.82	
070 Alberni	148	29.83	*	41.55	74.19	103.52	74.69	52.09	4.44	1,752.46	*
071 Courtenay	149	14.96	*	8.53	63.90	107.75	86.00	35.86	7.78	1,549.02	
072 Campbell River	129	18.50	*	19.59	82.03	103.38	98.29	27.11	4.32	1,673.67	*
075 Mission	111	15.16	*	17.25	67.37	125.82	98.52	30.70	5.06	1,723.62	*
076 Agassiz - Harrison	38	30.21	*	28.93	157.41	155.56	122.45	23.81	7.94	2,480.42	*
077 Summerland	16	8.25		9.48	83.33	75.47	86.96	24.92	7.04	1,436.02	
078 Enderby	28	21.49	*	31.91	122.07	108.25	73.62	24.39	14.44	1,873.39	*
080 Kitimat	35	15.53		12.38	72.61	125.49	41.67	29.81	2.37	1,421.60	
081 Fort Nelson	45	36.86	*	52.38	111.55	97.56	68.35	29.20	-	1,795.19	
083 Central Coast	20	58.14	*	20.41	161.29	192.31	68.97	-	-	2,214.86	
084 Vancouver Island West	16	39.51	*	21.98	87.72	76.92	40.54	-	-	1,135.80	
085 Vancouver Island North	93	37.55	*	37.12	148.26	139.53	67.65	26.70	8.00	2,136.32	*
087 Stikine	3	19.48		-	31.25	50.00	66.67	-	-	739.58	
088 Terrace	122	31.00	*	27.22	109.78	134.12	83.21	38.71	2.27	1,976.53	*
092 Nisga'a	30	78.74	*	108.70	250.00	79.37	80.46	57.69	-	2,881.06	*
094 Telegraph Creek	4	23.81		25.64	114.29	400.00	100.00	-	-	3,199.63	
161 Vancouver - City Centre	21	2.84	*	3.47	6.78	20.06	49.99	46.78	14.04	705.56	*
162 Vancouver - Downtown E.side	87	16.78	*	13.25	21.14	30.53	63.80	45.68	12.54	934.71	*
163 Vancouver - North East	79	5.28	*	7.75	19.10	57.45	106.55	64.85	11.65	1,336.76	*
164 Vancouver - Westside	18	0.93	*	1.31	4.22	27.51	74.54	75.97	17.29	1,004.19	*
165 Vancouver - Midtown	81	7.77	*	4.03	25.53	48.56	82.59	70.98	18.35	1,250.20	*
166 Vancouver - South	98	4.39	*	3.92	22.67	62.69	94.44	59.55	14.71	1,289.93	*
201 Surrey	595	10.39		10.30	54.38	122.49	103.56	47.90	8.98	1,738.11	*
202 South Surrey/White Rock	21	1.84	*	3.55	18.85	57.72	105.53	56.07	8.87	1,252.97	*
PROVINCIAL TOTAL	7,191	10.53		10.52	42.07	82.83	95.24	49.51	9.39	1,447.87	

Notes for this table follow the map.

FIGURE 29
LIVE BIRTH TEENAGE FERTILITY RATES BY LOCAL HEALTH AREA
 BRITISH COLUMBIA, 2002-2006

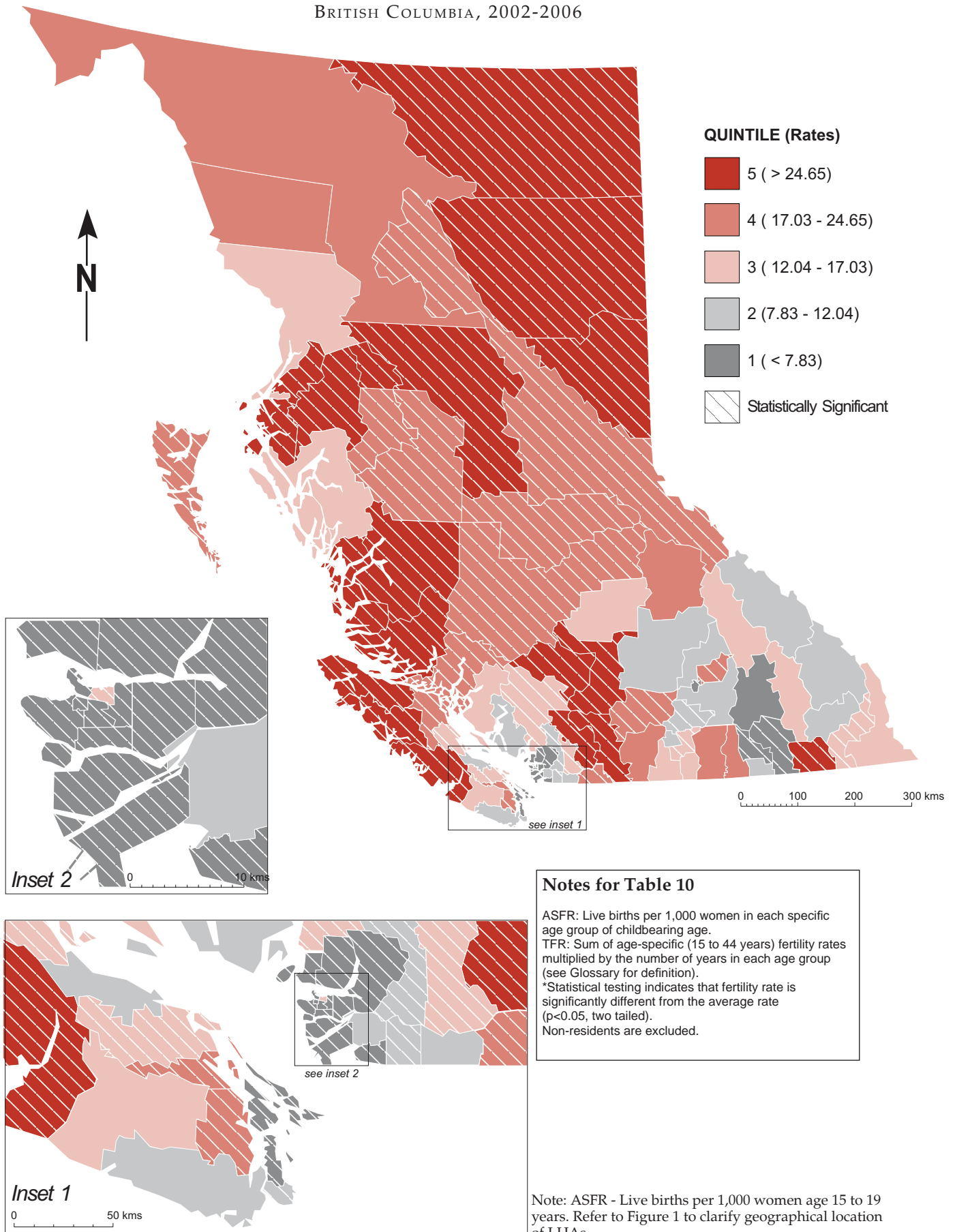


TABLE 11
LIVE BIRTHS BY MODE OF DELIVERY AND AGE OF MOTHER
 BRITISH COLUMBIA, 2007

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	9	1,044	4,196	7,363	8,009	4,202	774	34	-	25,631
Percent	81.8	71.8	65.7	60.7	58.1	52.5	47.3	33.0	-	58.9
Spontaneous breech	-	7	15	44	46	35	9	2	-	158
Percent	0.0	0.5	0.2	0.4	0.3	0.4	0.5	1.9	-	0.4
Forceps	-	36	172	478	492	254	43	4	-	1,479
Percent	0.0	2.5	2.7	3.9	3.6	3.2	2.6	3.9	-	3.4
Vacuum	-	118	450	850	795	435	74	3	-	2,725
Percent	0.0	8.1	7.0	7.0	5.8	5.4	4.5	2.9	-	6.3
First cesarean	2	226	1,185	2,219	2,588	1,647	395	51	-	8,313
Percent	18.2	15.5	18.6	18.3	18.8	20.6	24.1	49.5	-	19.1
Repeat cesarean	-	23	366	1,184	1,853	1,427	342	9	-	5,204
Percent	0.0	1.6	5.7	9.8	13.4	17.8	20.9	8.7	-	12.0
N.S.	-	1	2	2	2	-	-	-	-	7
TOTAL	11	1,455	6,386	12,140	13,785	8,000	1,637	103	-	43,517
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, 2000-2007

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 2000 to 2007.

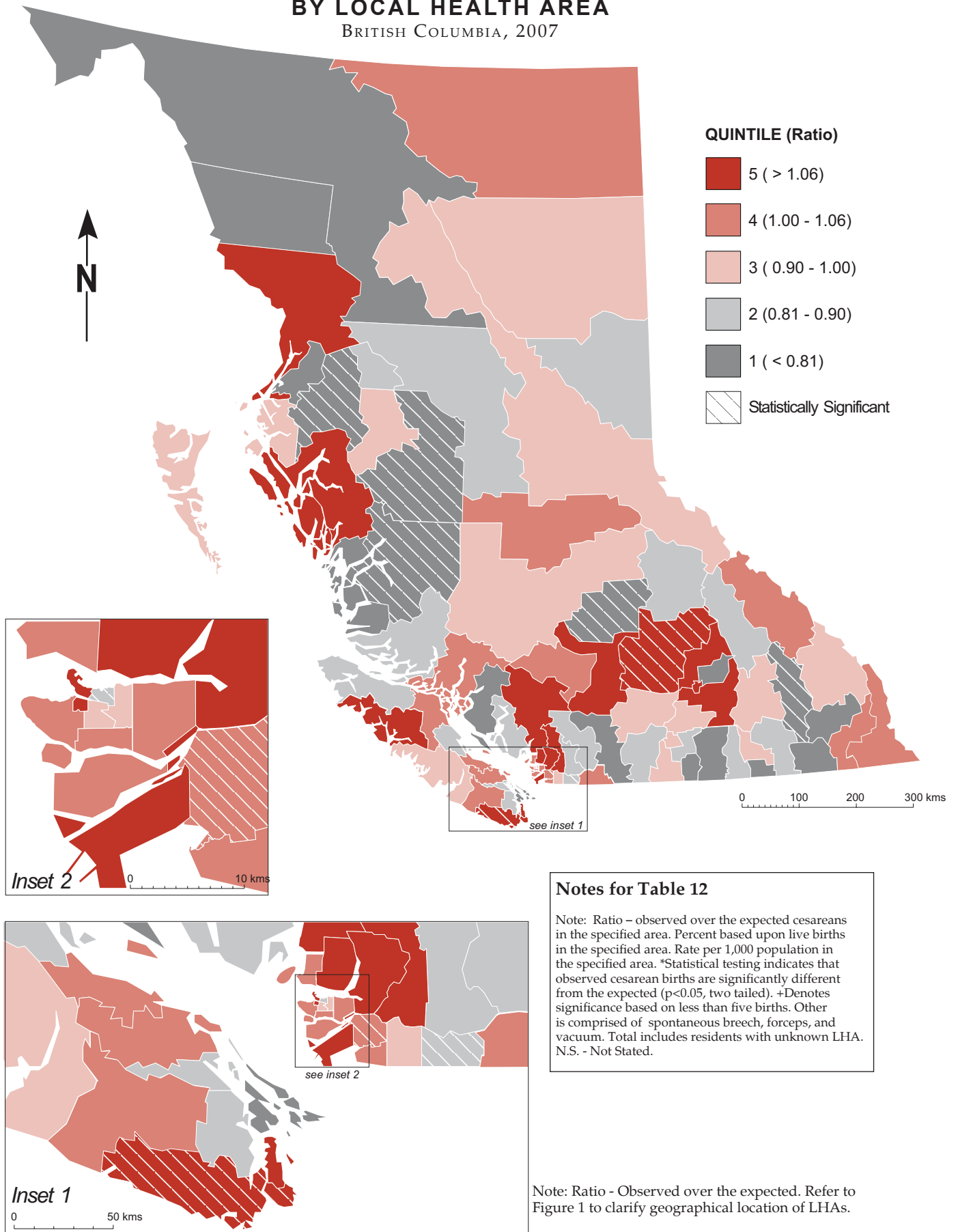
Place of Birth	2000		2001		2002		2003		2004		2005		2006		2007	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Hospital	661	62.1	854	63.2	840	63.2	1,052	68.4	1,168	69.4	1,505	70.8	1,766	74.0	2,056	75.6
Home	387	36.3	417	30.9	416	31.3	432	28.1	462	27.5	475	22.3	229	9.6	142	5.2
Other & unknown*	17	1.6	80	5.9	74	5.6	54	3.5	53	3.1	146	6.9	392	16.4	523	19.2
Midwife Assisted Births	1,065	100.0	1,351	100.0	1,330	100.0	1,538	100.0	1,683	100.0	2,126	100.0	2,387	100.0	2,721	100.0
Percent of Total Births Delivered by Registered Midwives		2.6		3.3		3.3		3.8		4.2		5.2		5.7		6.3

Note: *Other and unknown includes birthing clinics.

44		Spontaneous	Cesarean						Other	N.S.	Total Live Births	
Local Health Area			Vertex	First	Repeat	Total	Expected	Ratio (p)			Percent	Number
001	Fernie	86	31	17	48	47.2	1.02	31.6	18	-	152	10.28
002	Cranbrook	159	38	41	79	78.6	1.01	31.2	14	1	253	9.86
003	Kimberley	49	10	8	18	23.0	0.78	24.3	7	-	74	8.77
004	Windermere	59	14	12	26	27.3	0.95	29.5	3	-	88	8.81
005	Creston	86	19	6	25	35.4	0.71	21.9	3	-	114	8.92
006	Kootenay Lake	33	3	-	3	11.2	0.27	8.3	-	-	36	9.15
007	Nelson	155	42	19	61	72.4	0.84	26.2	16	1	233	9.30
009	Castlegar	76	19	12	31	34.5	0.90	27.9	4	-	111	8.33
010	Arrow Lakes	28	10	2	12	12.7	0.94	29.3	1	-	41	8.44
011	Trail	99	22	13	35	45.7	0.77	23.8	13	-	147	7.38
012	Grand Forks	40	8	8	16	19.6	0.82	25.4	6	1	63	6.80
013	Kettle Valley	14	4	-	4	6.5	0.61	19.0	3	-	21	5.62
014	Southern Okanagan	82	15	15	30	40.7	0.74	22.9	19	-	131	6.56
015	Penticton	197	58	27	85	99.1	0.86	26.6	37	-	319	7.51
016	Keremeos	23	9	3	12	12.4	0.97	30.0	5	-	40	7.62
017	Princeton	16	4	3	7	8.1	0.87	26.9	3	-	26	5.03
018	Golden	39	17	5	22	21.1	1.04	32.4	7	-	68	9.24
019	Revelstoke	46	10	8	18	21.4	0.84	26.1	5	-	69	8.33
020	Salmon Arm	140	60	35	95	77.7	1.22	38.0	15	-	250	7.21
021	Armstrong - Spallumcheen	51	19	12	31	27.6	1.12	34.8	7	-	89	9.07
022	Vernon	318	103	85	188	170.2	1.10	34.3	42	-	548	8.39
023	Central Okanagan	1,013	289	175	464	506.9	0.92	28.4	155	-	1,632	9.21
024	Kamloops	576	253	143	396	323.0	1.23	38.1	68	-	1,040	9.51
025	100 Mile House	81	12	7	19	32.9	0.58	17.9	6	-	106	7.13
026	North Thompson	36	10	4	14	17.1	0.82	25.5	5	-	55	12.36
027	Cariboo - Chilcotin	191	47	42	89	96.0	0.93	28.8	29	-	309	11.49
028	Quesnel	150	52	27	79	79.5	0.99	30.9	27	-	256	10.76
029	Lillooet	29	8	7	15	14.3	1.05	32.6	2	-	46	10.20
030	South Cariboo	36	12	11	23	19.3	1.19	37.1	3	-	62	8.25
031	Merritt	81	16	18	34	37.6	0.90	28.1	6	-	121	10.38
032	Hope	46	5	10	15	21.1	0.71	22.1	7	-	68	8.17
033	Chilliwack	611	161	147	308	316.2	0.97	30.3	99	-	1,018	12.22
034	Abbotsford	1,058	255	198	453	537.4	0.84	26.2	219	-	1,730	13.04
035	Langley	844	229	147	376	413.7	0.91	28.2	112	-	1,332	10.65
037	Delta	481	169	131	300	267.1	1.12	34.9	79	-	860	8.42
038	Richmond	1,007	344	224	568	542.6	1.05	32.5	172	-	1,747	9.36
040	New Westminster	367	166	68	234	215.9	1.08	33.7	94	-	695	11.10
041	Burnaby	1,335	464	261	725	721.6	1.00	31.2	263	-	2,323	10.74
042	Maple Ridge	501	182	130	312	291.7	1.07	33.2	126	-	939	10.39
043	Coquitlam	1,197	468	238	706	665.3	1.06	33.0	239	-	2,142	10.23
044	North Vancouver	690	267	129	396	374.0	1.06	32.9	118	-	1,204	8.83
045	West Vancouver-Bowen Is.	171	53	43	96	93.5	1.03	31.9	34	-	301	5.82
046	Sunshine Coast	118	39	16	55	61.5	0.89	27.8	25	-	198	6.63
047	Powell River	84	14	13	27	37.3	0.72	22.5	9	-	120	5.89
048	Howe Sound	258	115	59	174	150.0	1.16	36.0	50	1	483	14.56
049	Bella Coola Valley	26	3	-	3	10.3	0.29	9.1	4	-	33	10.97
050	Queen Charlotte	25	6	6	12	12.7	0.94	29.3	4	-	41	8.14
051	Snow Country	3	2	-	2	1.6	1.29	40.0	-	-	5	8.87
052	Prince Rupert	110	34	18	52	55.9	0.93	28.9	18	-	180	12.18
053	Upper Skeena	44	13	4	17	20.5	0.83	25.8	5	-	66	11.84
054	Smithers	131	29	33	62	65.5	0.95	29.4	18	-	211	12.92
055	Burns Lake	66	7	11	18	28.6	0.63	19.6	8	-	92	11.42
056	Nechako	143	27	33	60	69.0	0.87	27.0	19	-	222	14.46
057	Prince George	714	176	140	316	338.6	0.93	29.0	60	-	1,090	11.12
059	Peace River South	217	59	36	95	106.9	0.89	27.6	32	-	344	12.48
060	Peace River North	387	103	67	170	187.3	0.91	28.2	46	-	603	17.54
061	Greater Victoria	1,052	446	238	684	569.7	1.20	37.3	98	-	1,834	8.25
062	Sooke	362	138	94	232	197.2	1.18	36.5	41	-	635	9.97
063	Saanich	226	71	56	127	115.5	1.10	34.1	19	-	372	5.73
064	Gulf Islands	68	15	6	21	28.6	0.73	22.8	2	1	92	5.95
065	Cowichan	390	90	62	152	173.0	0.88	27.3	15	-	557	9.77
066	Lake Cowichan	27	9	5	14	13.4	1.05	32.6	2	-	43	6.66
067	Ladysmith	108	24	18	42	49.4	0.85	26.4	9	-	159	8.57
068	Nanaimo	573	153	126	279	286.1	0.98	30.3	69	-	921	9.01
069	Qualicum	153	40	36	76	78.6	0.97	30.0	24	-	253	5.52
070	Alberni	207	57	42	99	104.1	0.95	29.6	29	-	335	10.38
071	Courtenay	344	89	48	137	157.8	0.87	27.0	27	-	508	7.93
072	Campbell River	221	85	45	130	123.0	1.06	32.8	45	-	396	9.42
075	Mission	284	65	58	123	143.2	0.86	26.7	53	1	461	11.04
076	Agassiz - Harrison	65	13	14	27	31.1	0.87	27.0	8	-	100	11.72
077	Summerland	37	10	11	21	22.1	0.95	29.6	13	-	71	5.91
078	Enderby	53	12	6	18	23.9	0.75	23.4	6	-	77	9.70
080	Kitimat	44	13	19	32	25.8	1.24	38.6	7	-	83	7.97
081	Fort Nelson	58	20	10	30	29.5	1.02	31.6	7	-	95	14.77
083	Central Coast	20	1	2	3	7.8	0.39	12.0	2	-	25	16.61
084	Vancouver Island West	5	3	3	6	4.3	1.38	42.9	3	-	14	5.78
085	Vancouver Island North	100	23	16	39	46.6	0.84	26.0	11	-	150	12.04
087	Stikine	3	-	-	-	1.2	-	-	1	-	4	3.93
088	Terrace	167	31	22	53	75.5	0.70	21.8	23	-	243	11.78
092	Nisga'a	28	6	1	7	11.2	0.63	19.4	1	-	36	17.91
094	Telegraph Creek	8	2	1	3	3.7	0.80	25.0	1	-	12	16.97
161	Vancouver - City Centre	482	235	67	302	285.5	1.06	32.9	135	-	919	8.25
162	Vancouver - Downtown E.side	288	77	38	115	140.7	0.82	25.4	49	1	453	7.85
163	Vancouver - North East	670	242	94	336	350.4	0.96	29.8	122	-	1,128	10.87
164	Vancouver - Westside	648	232	130	362	357.5	1.01	31.5	141	-	1,151	8.71
165	Vancouver - Midtown	585	205	103	308	322.4	0.96	29.7	145	-	1,038	12.08
166	Vancouver - South	729	266	153	419	410.0	1.02	31.7	172	-	1,320	9.86
201	Surrey	2,675	930	676	1,606	1527.0	1.05	32.7	635	-	4,916	13.55
202	South Surrey/White Rock	313	105	70	175	167.1	1.05	32.5	50	-	538	6.47
PROVINCIAL TOTAL		25,631	8,313	5,204	13,517	13517.0	1.00	31.1	4,362	7	43,517	9.93

Notes for this table follow the map.

FIGURE 30
**CESAREAN DELIVERIES OF LIVE BORN INFANTS
 BY LOCAL HEALTH AREA**
 BRITISH COLUMBIA, 2007



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 and Table 13 indicates that 38,471 births or 88.4 percent of all live births in 2007 were in that category. There were 3,272 pre-term births (less than 37 weeks) which accounted for 7.52 percent of all live births.

Table 14 shows the number of live births to residents of BC in 2007 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 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 (60.37 per 1,000 female live births) than males (54.40 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 2007 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 2002 to 2006 and the year 2007, stratified by the LHA of maternal residence for the whole province. As well as the incidence of such births, the 2002 to 2006 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 17 LHAs with ratios that were statistically significant. Of these only 7 were high. The 2007 data show 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 2007 so the rates should be viewed with caution.

Figure 32 shows BC LHAs displayed in five levels according to the 2002-2006 observed versus expected LBW ratio. High ratios, (Quintile 5, deep red colour) mean that an LHA had quite a high ratio in the years 2002-2006. At the other extreme, the areas shown as dark grey have a relatively low ratio.

TABLE 13
LIVE BIRTHS BY BIRTH WEIGHT, GENDER, AND GESTATIONAL AGE
 BRITISH COLUMBIA, 2007

Birth Weight (in Grams)	Gender		Gestational Age (in Weeks)						Total
	Male	Female	<20	20-27	28-36	37-41	42+	N.S.	
<500	10	23	3	30	-	-	-	-	33
500-749	41	27	-	63	5	-	-	-	68
750-999	45	37	-	57	24	1	-	-	82
1,000-1,249	56	48	-	34	70	-	-	-	104
1,250-1,499	76	64	-	3	134	3	-	-	140
1,500-1,749	83	91	-	-	169	5	-	-	174
1,750-1,999	138	142	-	-	252	28	-	-	280
2,000-2,249	274	292	-	-	434	131	1	-	566
2,250-2,499	499	547	-	-	574	472	-	-	1,046
2,500-2,749	931	1,149	-	-	541	1,538	1	-	2,080
2,750-2,999	1,997	2,374	-	-	428	3,942	1	-	4,371
3,000-3,249	3,277	3,797	-	-	267	6,784	23	-	7,074
3,250-3,499	4,211	4,293	-	-	114	8,352	38	-	8,504
3,500-3,749	4,201	3,775	-	-	35	7,888	53	-	7,976
3,750-3,999	3,114	2,358	-	-	20	5,402	50	-	5,472
4,000-4,249	1,955	1,202	-	-	9	3,106	42	-	3,157
4,250-4,499	938	546	-	-	3	1,459	22	-	1,484
4,500-4,749	388	181	-	-	1	557	11	-	569
4,750-4,999	135	68	-	-	1	198	4	-	203
5,000-5,249	47	21	-	-	1	66	1	-	68
5,250-5,499	18	4	-	-	-	21	1	-	22
5,500+	7	3	-	-	-	10	-	-	10
N.S.	22	12	-	-	-	-	-	34	34
TOTAL	22,463	21,054	3	187	3,082	39,963	248	34	43,517

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

TABLE 14
LIVE BIRTHS BY BIRTH WEIGHT AND AGE OF MOTHER
 BRITISH COLUMBIA, 2007

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	-	3	3	7	15	5	-	-	-	33
500-749	-	4	10	25	15	9	5	-	-	68
750-999	-	4	11	22	18	20	5	2	-	82
1,000-1,249	-	3	15	17	36	25	7	1	-	104
1,250-1,499	-	3	13	36	42	32	13	1	-	140
1,500-1,749	-	3	21	48	49	38	14	1	-	174
1,750-1,999	-	12	27	73	95	55	17	1	-	280
2,000-2,249	-	21	69	141	174	115	43	3	-	566
2,250-2,499	1	31	152	314	276	205	60	7	-	1,046
2,500-2,749	1	69	326	559	633	392	91	9	-	2,080
2,750-2,999	-	135	614	1,241	1,402	781	184	14	-	4,371
3,000-3,249	1	242	1,081	1,921	2,193	1,346	269	21	-	7,074
3,250-3,499	-	269	1,242	2,416	2,698	1,577	285	17	-	8,504
3,500-3,749	3	263	1,166	2,237	2,588	1,446	260	13	-	7,976
3,750-3,999	2	196	803	1,519	1,778	986	180	8	-	5,472
4,000-4,249	2	107	495	899	1,010	527	115	2	-	3,157
4,250-4,499	1	58	211	414	460	277	60	3	-	1,484
4,500-4,749	-	22	75	160	193	98	21	-	-	569
4,750-4,999	-	7	40	56	57	38	5	-	-	203
5,000-5,249	-	2	4	16	29	16	1	-	-	68
5,250-5,499	-	-	3	7	7	5	-	-	-	22
5,500+	-	-	2	1	5	1	1	-	-	10
N.S.	-	1	3	11	12	6	1	-	-	34
Low	1	84	321	683	720	504	164	16	-	2,493
Percent	9.09	5.77	5.03	5.63	5.22	6.30	10.02	15.53	-	5.73
Healthy	10	1,339	5,938	11,206	12,762	7,332	1,444	87	-	40,118
Percent	90.91	92.03	92.98	92.31	92.58	91.65	88.21	84.47	-	92.19
High	-	31	124	240	291	158	28	-	-	872
Percent	-	2.13	1.94	1.98	2.11	1.98	1.71	-	-	2.00
TOTAL	11	1,455	6,386	12,140	13,785	8,000	1,637	103	-	43,517

Note: LBW <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, 2007

Age of Mother	Male		Female		Total		
	Number	Percent	Number	Percent	Number	Percent	Rate
< 15	-	-	1	0.1	1	-	90.91
15-19	53	4.3	31	2.4	84	3.4	57.73
20-24	162	13.3	159	12.5	321	12.9	50.27
25-29	348	28.5	335	26.4	683	27.4	56.26
30-34	317	25.9	403	31.7	720	28.9	52.23
35-39	246	20.1	258	20.3	504	20.2	63.00
40-44	88	7.2	76	6.0	164	6.6	100.18
45 +	8	0.7	8	0.6	16	0.6	155.34
N.S.	-	-	-	-	-	-	-
TOTAL	1,222	100.0	1,271	100.0	2,493	100.0	57.29

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

LBW: 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, 2007

Rate per 1,000 Live Births

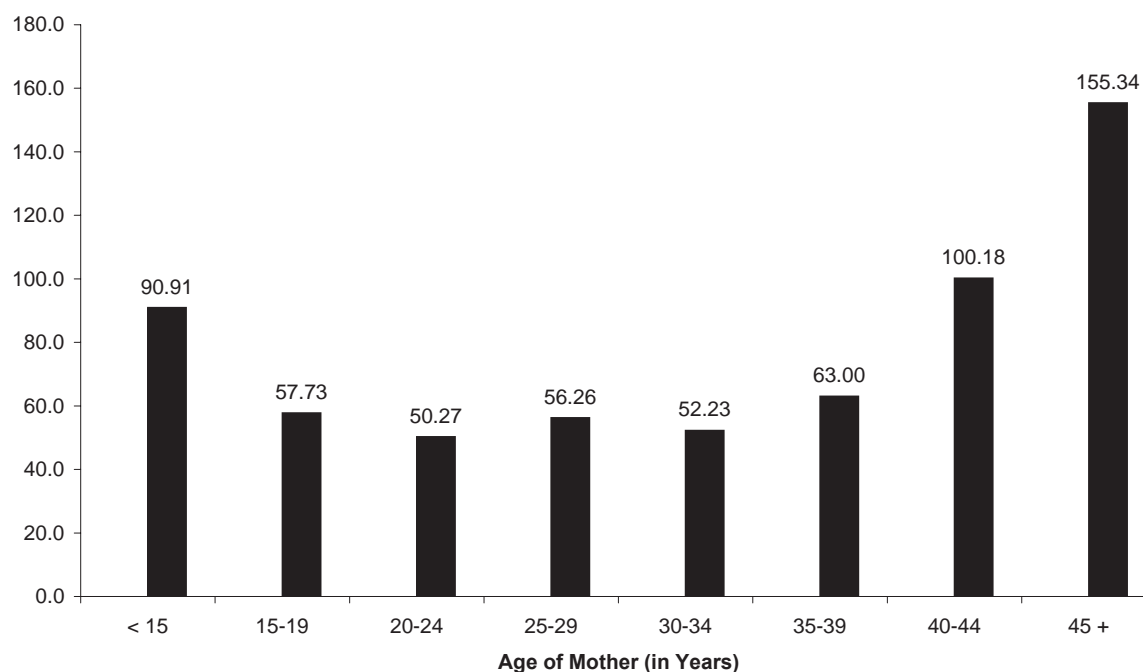


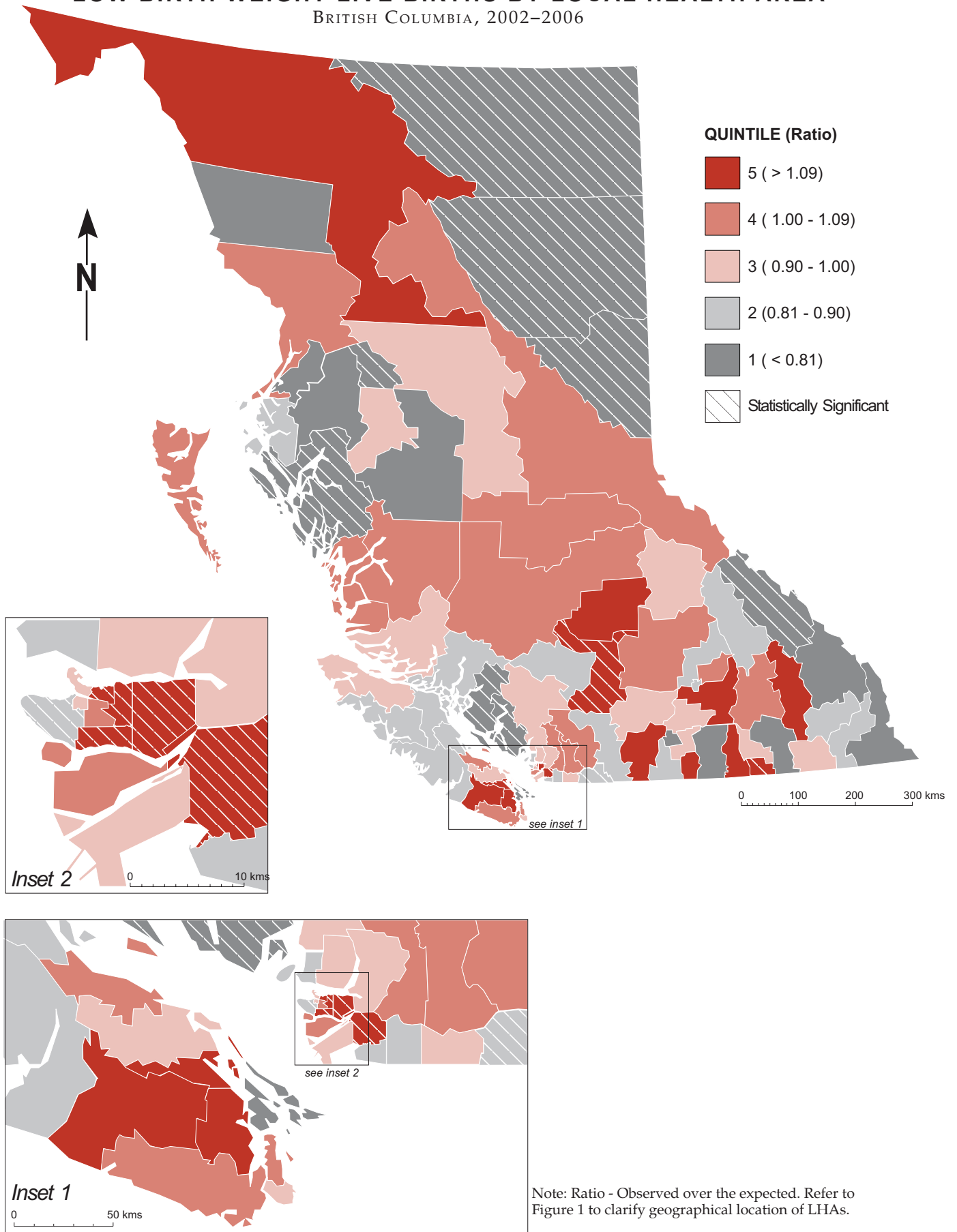
Table 16

LOW BIRTH WEIGHT LIVE BIRTHS BY LOCAL HEALTH AREA AND GESTATIONAL AGE,
BRITISH COLUMBIA, 2002-2006 AND 2007

50	Local Health Area	2002-2006				2007					
		Low Birth Weight Live Births				Gestational Age (in Weeks)				Total	Rate
		Observed	Ratio	(p)	Rate	<37	37-41	42+	N.S.		
001	Fernie	23	0.70		38.53	4	1	-	-	5	32.89
002	Cranbrook	52	0.85		46.72	11	5	-	-	16	63.24
003	Kimberley	14	0.88		47.95	5	2	-	-	7	94.59
004	Windermere	11	0.59		32.54	4	2	-	-	6	68.18
005	Creston	32	0.99		54.42	6	3	-	-	9	78.95
006	Kootenay Lake	11	1.16		63.22	-	-	-	-	-	-
007	Nelson	47	0.79		43.16	6	6	-	-	12	51.50
009	Castlegar	22	0.91		50.00	2	-	-	-	2	18.02
010	Arrow Lakes	9	1.02		55.90	2	-	-	-	2	48.78
011	Trail	51	1.37	*	75.00	6	1	-	-	7	47.62
012	Grand Forks	21	1.14		62.50	-	1	-	-	1	15.87
013	Kettle Valley	4	0.55		29.85	-	-	-	-	-	-
014	Southern Okanagan	35	1.10		59.93	6	2	-	-	8	61.07
015	Penticton	74	0.92		50.55	12	3	-	-	15	47.02
016	Keremeos	9	0.88		48.39	1	-	-	-	1	25.00
017	Princeton	9	1.38		75.63	4	1	-	-	5	192.31
018	Golden	8	0.44	*	24.17	3	2	-	-	5	73.53
019	Revelstoke	17	0.82		45.09	1	-	-	-	1	14.49
020	Salmon Arm	54	0.84		45.96	13	1	-	-	14	56.00
021	Armstrong - Spallumcheen	18	0.88		48.00	1	2	-	-	3	33.71
022	Vernon	162	1.15		63.16	24	7	-	-	31	56.57
023	Central Okanagan	352	0.95		52.02	61	12	-	-	73	44.73
024	Kamloops	262	1.07		58.72	51	19	1	-	71	68.27
025	100 Mile House	29	1.10		60.17	4	1	-	-	5	47.17
026	North Thompson	12	1.00		54.55	3	-	-	-	3	54.55
027	Cariboo - Chilcotin	82	1.06		57.87	19	6	-	-	25	80.91
028	Quesnel	66	1.06		57.84	13	7	-	-	20	78.13
029	Lillooet	12	0.82		44.78	2	1	-	-	3	65.22
030	South Cariboo	25	1.58	*	86.51	-	1	-	-	1	16.13
031	Merritt	28	0.91		49.82	4	1	-	-	5	41.32
032	Hope	17	0.86		46.96	2	3	-	-	5	73.53
033	Chilliwack	206	0.85	*	46.23	29	10	-	-	39	38.31
034	Abbotsford	408	0.92		50.35	61	14	-	-	75	43.35
035	Langley	304	0.90		49.24	58	17	-	-	75	56.31
037	Delta	242	0.92		50.37	32	12	-	-	44	51.16
038	Richmond	425	1.00		54.70	68	37	-	-	105	60.10
040	New Westminster	199	1.13		62.03	44	9	-	-	53	76.26
041	Burnaby	635	1.11	*	60.60	88	34	-	-	122	52.52
042	Maple Ridge	246	1.01		55.17	47	23	-	-	70	74.55
043	Coquitlam	548	0.98		53.84	104	40	-	-	144	67.23
044	North Vancouver	325	0.95		51.76	45	15	-	-	60	49.83
045	West Vancouver-Bowen Is.	68	0.82		45.12	16	4	-	-	20	66.45
046	Sunshine Coast	24	0.48	*	26.23	11	2	-	-	13	65.66
047	Powell River	23	0.59	*	32.49	9	2	-	-	11	91.67
048	Howe Sound	96	0.90		49.31	15	10	-	-	25	51.76
049	Bella Coola Valley	15	1.04		57.03	4	-	-	-	4	121.21
050	Queen Charlotte	16	1.02		55.75	-	1	-	-	1	24.39
051	Snow Country	2	1.04		57.14	-	1	-	-	1	200.00
052	Prince Rupert	45	0.88		48.34	4	1	-	-	5	27.78
053	Upper Skeena	10	0.53	*	28.99	4	-	-	-	4	60.61
054	Smithers	57	0.93		51.08	7	-	-	-	7	33.18
055	Burns Lake	16	0.68		37.38	3	1	-	-	4	43.48
056	Nechako	58	0.96		52.58	7	3	-	-	10	45.05
057	Prince George	292	1.02		55.60	50	16	-	-	66	60.55
059	Peace River South	49	0.63	*	34.46	7	6	-	-	13	37.79
060	Peace River North	111	0.80	*	43.55	14	9	-	-	23	38.14
061	Greater Victoria	473	1.00		54.44	77	21	-	-	98	53.44
062	Sooke	165	1.02		55.88	22	7	-	-	29	45.67
063	Saanich	116	1.04		56.81	11	2	-	-	13	34.95
064	Gulf Islands	18	0.77		42.35	1	2	-	-	3	32.61
065	Cowichan	151	1.14		62.35	32	14	-	-	46	82.59
066	Lake Cowichan	13	1.21		65.99	-	1	-	-	1	23.26
067	Ladysmith	49	1.23		67.12	5	2	-	-	7	44.03
068	Nanaimo	204	0.92		50.20	43	7	-	-	50	54.29
069	Qualicum	63	1.01		55.41	10	1	-	-	11	43.48
070	Alberni	68	0.82		44.77	15	6	-	-	21	62.69
071	Courtenay	110	0.87		47.78	25	5	-	-	30	59.06
072	Campbell River	87	0.89		48.79	18	8	-	-	26	65.66
075	Mission	119	1.02		55.66	12	6	-	-	18	39.05
076	Agassiz - Harrison	27	1.09		59.73	8	-	-	-	8	80.00
077	Summerland	13	0.66		36.31	2	-	-	-	2	28.17
078	Enderby	17	1.01		55.37	-	2	-	-	2	25.97
080	Kitimat	16	0.61	*	33.13	2	-	-	-	2	24.10
081	Fort Nelson	16	0.57	*	31.01	2	-	-	-	2	21.05
083	Central Coast	8	1.04		56.74	1	-	-	-	1	40.00
084	Vancouver Island West	6	0.88		48.00	-	-	-	-	-	-
085	Vancouver Island North	42	0.98		53.78	6	4	-	-	10	66.67
087	Stikine	2	1.35		74.07	-	-	-	-	-	-
088	Terrace	54	0.80		43.55	6	-	-	-	6	24.69
092	Nisga'a	3	0.38		20.83	2	-	-	-	2	55.56
094	Telegraph Creek	1	0.46		25.00	-	-	-	-	-	-
161	Vancouver - City Centre	222	0.99		53.90	24	13	-	-	37	40.26
162	Vancouver - Downtown E.side	164	1.30	*	71.06	18	3	-	-	21	46.36
163	Vancouver - North East	353	1.18	*	64.31	68	18	-	-	86	76.24
164	Vancouver - Westside	268	0.87	*	47.86	48	14	-	-	62	53.87
165	Vancouver - Midtown	295	1.09		59.48	50	22	-	-	72	69.36
166	Vancouver - South	415	1.18	*	64.66	73	30	-	-	103	78.03
201	Surrey	1,418	1.16	*	63.22	236	87	-	-	323	65.70
202	South Surrey/White Rock	120	0.84		45.84	36	7	-	-	43	79.93
	PROVINCIAL TOTAL	11,097	1.00		54.70	1,852	640	1	-	2,493	57.29

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, 2002–2006



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. 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 2007 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 0.6 percent of births to mothers aged under 20 years compared to 6.8 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 5.2 percent of all maternal complications in 2002-2006 and 5.5 percent in 2007 as shown in Table 17.

Table 18 shows the incidence of live births with maternal complications by LHA for the period 2002-2006 and for the year 2007. 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 2007 there were statistically significant low ratios in 12 LHAs; 7 LHAs had high ratios that were statistically significant. In the 2002 to 2006 period, 24 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 2002-2006 ratios of observed births with maternal complications versus the expected number of births with such conditions. LHAs with the highest ratios are coloured deep red; 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 2002-2006 and 2007. The 2007 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 (45.2 percent in 2002-2006 and 41.6 percent in 2007). Conditions related to short gestation and those related to long gestation or high birth weight together accounted for 39.6 percent of the conditions in 2007 and 32.0 percent in the 2002-2006 period.

Table 20 shows the incidence of live births with perinatal conditions, by the mother's LHA of residence for the period 2002-2006 and for the year 2007. In 2007, there were 30 LHAs where the observed number of perinatal complications was significantly different from the expected number, and in 21 of these, the observed number was significantly higher.

Figure 34 map shows the LHAs identified in their quintile ranks by their 2002-2006 ratios of observed births with perinatal complications to the expected number of births with such conditions. LHAs with the highest ratios are coloured deep red; 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, 2002–2006 AND 2007

Maternal Complications	ICD-10 Code(s)	2002–2006		2007					Total	Percent
		Total	Percent	Age of Mother (in Years)				N.S.		
Hypertension/hypertensive disorders in pregnancy	O10-O11, O13, O16	2,549	1.8	14	203	265	34	-	516	1.7
Edema and proteinuria without hypertension	O12	39	0.0	-	2	3	-	-	5	0.0
Pre-eclampsia/eclampsia	O14-O15	890	0.6	7	79	69	8	-	163	0.5
Hemorrhage in early pregnancy	O20	4	0.0	-	-	-	-	-	-	0.0
Hyperemesis gravidarum	O21	62	0.0	-	4	5	-	-	9	0.0
Other maternal disorders predominantly related to pregnancy	O22-O23, O25-O29	1,699	1.2	14	129	152	10	-	305	1.0
Diabetes in pregnancy	O24	2,315	1.6	3	138	279	44	-	464	1.5
Multiple gestation and related complications	O30-O31	5,968	4.2	20	432	767	128	-	1,347	4.4
Fetal malpresentation	O32	6,799	4.8	43	528	679	55	-	1,305	4.2
Disproportion	O33	469	0.3	3	47	55	4	-	109	0.4
Maternal abnormality of pelvic organs	O34	22,843	16.1	32	1,617	3,346	367	-	5,362	17.4
Disorders of amniotic fluid and membranes	O40-O42	4,040	2.9	32	365	416	42	-	855	2.8
Placental disorders	O43-O45, O73	2,150	1.5	6	160	243	29	-	438	1.4
Antepartum hemorrhage	O46	368	0.3	-	23	35	5	-	63	0.2
Prolonged pregnancy	O48	1,538	1.1	6	100	116	10	-	232	0.8
Preterm labour and delivery	O60	8,299	5.9	89	840	814	89	-	1,832	6.0
Abnormalities of forces of labour	O62-O63	5,808	4.1	67	600	598	44	-	1,309	4.3
Obstructed labour	O64-O66	11,353	8.0	102	1,051	1,111	61	-	2,325	7.6
Intrapartum hemorrhage	O67	-	-	-	-	-	-	-	-	-
Evidence of fetal distress	O68	8,290	5.9	59	705	880	79	-	1,723	5.6
Cord complications	O69	2,420	1.7	16	225	217	13	-	471	1.5
Obstetrical trauma	O71-O71	1,427	1.0	18	138	144	8	-	308	1.0
Postpartum hemorrhage	O72	1,914	1.4	26	182	188	16	-	412	1.3
Assisted or surgical delivery - no cause given ¹	O81-O82	30,383	21.5	150	2,730	3,209	315	-	6,404	20.8
Maternal and puerperal infections	O85-O86, O98, A34	194	0.1	6	26	26	4	-	62	0.2
Other puerperal complications	O87-O92	65	0.0	1	5	4	1	-	11	0.0
Maternal noninfectious diseases complicating the pregnant state	O99	1,987	1.4	12	193	229	22	-	456	1.5
Elderly primigravida	Z355	7,366	5.2	-	-	1,467	237	-	1,704	5.5
Maternal drug use	O355	419	0.3	3	52	46	2	-	103	0.3
Other maternal complications	O00-O08, O350-O353, O356-O36, O47, O61, O74-O75, O95-O97	9,953	7.0	95	1,045	1,195	126	-	2,461	8.0
Total maternal complications		141,611	100.0	824	11,619	16,558	1,753	-	30,754	100.0
Live births with the above	- Number	105,373		608	8,925	11,997	1,140	-	22,672	
maternal complications	- Percent(*)	51.9		41.5	48.2	55.1	65.5		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 2007

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 2007 list, as well as lists for several previous years can be found at <http://www.vs.gov.bc.ca/babynames/index.html>. In 2007, 628 boys' names and 706 girls' names were chosen for one or more newborns.

Baby Boys			Baby Girls	
Rank	Name	Number	Name	Number
1	Ethan	291	Ava	236
2	Jacob	253	Emily	229
3	Noah	231	Sophia	213
4	Liam	211	Olivia	211
5	Matthew	206	Emma	200
6	Joshua	205	Hannah	186
7	Logan	201	Ella	179
8	Owen	199	Isabella	168
9	Ryan	191	Sarah	150
10	Lucas	183	Chloe	131
11	Alexander	181	Madison	130
12	Benjamin	181	Sophie	129
13	Nathan	181	Lily	118
14	Daniel	180	Grace	116
15	Jack	173	Abigail	112
16	William	166	Brooklyn	93
17	James	159	Taylor	90
18	Nicholas	154	Julia	89
19	Jayden	147	Samantha	89
20	Tyler	139	Claire	88
21	Aiden	138	Elizabeth	87
22	Dylan	135	Kaitlyn	86
23	Samuel	135	Hailey	85
24	Evan	134	Maya	85
25	Gavin	120	Jessica	80

56		2002-2006					2007				
Local Health Area		Observed Births	Ratio	(p)	Percent	Total Live Births	Observed Births	Expected Births	Ratio	(p)	Percent Live Births
001	Fernie	363	1.17	*	60.8	597	78	79.2	0.98		51.3
002	Cranbrook	499	0.86	*	44.8	1,113	100	131.8	0.76	*	39.5
003	Kimberley	125	0.82	*	42.8	292	36	38.6	0.93		48.6
004	Wndermere	173	0.99		51.2	338	45	45.8	0.98		51.1
005	Creston	224	0.73	*	38.1	588	46	59.4	0.77	*	40.4
006	Kootenay Lake	68	0.75	*	39.1	174	8	18.8	0.43	*	22.2
007	Nelson	395	0.70	*	36.3	1,089	94	121.4	0.77	*	40.3
009	Castlegar	198	0.87	*	45.0	440	42	57.8	0.73	*	37.8
010	Arrow Lakes	70	0.84		43.5	161	21	21.4	0.98		51.2
011	Trail	326	0.92		47.9	680	67	76.6	0.87		45.6
012	Grand Forks	152	0.87		45.2	336	26	32.8	0.79		41.3
013	Kettle Valley	44	0.63	*	32.8	134	8	10.9	0.73		38.1
014	Southern Okanagan	289	0.95		49.5	584	67	68.2	0.98		51.1
015	Penticton	780	1.03		53.3	1,464	181	166.2	1.09		56.7
016	Keremeos	98	1.01		52.7	186	21	20.8	1.01		52.5
017	Princeton	55	0.89		46.2	119	13	13.5	0.96		50.0
018	Golden	179	1.04		54.1	331	40	35.4	1.13		58.8
019	Revelstoke	183	0.93		48.5	377	32	35.9	0.89		46.4
020	Salmon Arm	689	1.13	*	58.6	1,175	162	130.2	1.24	*	64.8
021	Armstrong - Spallumcheen	201	1.03		53.6	375	48	46.4	1.04		53.9
022	Vernon	1,405	1.05	*	54.8	2,565	313	285.5	1.10		57.1
023	Central Okanagan	3,319	0.94	*	49.1	6,766	810	850.3	0.95		49.6
024	Kamloops	2,182	0.94	*	48.9	4,462	556	541.8	1.03		53.5
025	100 Mile House	233	0.93		48.3	482	35	55.2	0.63	*	33.0
026	North Thompson	101	0.88		45.9	220	24	28.7	0.84		43.6
027	Cariboo - Chilcotin	766	1.04		54.1	1,417	156	161.0	0.97		50.5
028	Quesnel	553	0.93		48.5	1,141	134	133.4	1.00		52.3
029	Lillooet	141	1.01		52.6	268	26	24.0	1.08		56.5
030	South Cariboo	123	0.82	*	42.6	289	31	32.3	0.96		50.0
031	Merritt	250	0.86	*	44.5	562	51	63.0	0.81		42.1
032	Hope	194	1.03		53.6	362	32	35.4	0.90		47.1
033	Chilliwack	2,184	0.94	*	49.0	4,456	511	530.4	0.96		50.2
034	Abbotsford	3,801	0.90	*	46.9	8,103	790	901.3	0.88	*	45.7
035	Langley	3,053	0.95	*	49.4	6,174	634	694.0	0.91	*	47.6
037	Delta	2,671	1.07	*	55.6	4,804	441	448.1	0.98		51.3
038	Richmond	4,102	1.02		52.8	7,770	868	910.2	0.95		49.7
040	New Westminster	1,780	1.07	*	55.5	3,208	418	362.1	1.15	*	60.1
041	Burnaby	5,395	0.99		51.5	10,478	1,218	1,210.3	1.01		52.4
042	Maple Ridge	2,361	1.02		52.9	4,459	532	489.2	1.09		56.7
043	Coquitlam	5,827	1.10	*	57.3	10,178	1,272	1,116.0	1.14	*	59.4
044	North Vancouver	3,221	0.99		51.3	6,279	646	627.3	1.03		53.7
045	West Vancouver-Bowen Is.	756	0.97		50.2	1,507	164	156.8	1.05		54.5
046	Sunshine Coast	409	0.86	*	44.7	915	117	103.2	1.13		59.1
047	Powell River	387	1.05		54.7	708	59	62.5	0.94		49.2
048	Howe Sound	1,064	1.05		54.6	1,947	280	251.6	1.11		58.0
049	Bella Coola Valley	128	0.94		48.7	263	15	17.2	0.87		45.5
050	Queen Charlotte	166	1.11		57.8	287	20	21.4	0.94		48.8
051	Snow Country	20	1.10		57.1	35	3	2.6	1.15		60.0
052	Prince Rupert	457	0.95		49.1	931	84	93.8	0.90		46.7
053	Upper Skeena	213	1.19	*	61.7	345	35	34.4	1.02		53.0
054	Smithers	529	0.91	*	47.4	1,116	102	109.9	0.93		48.3
055	Burns Lake	218	0.98		50.9	428	38	47.9	0.79		41.3
056	Nechako	557	0.97		50.5	1,103	118	115.7	1.02		53.2
057	Prince George	2,507	0.92	*	47.7	5,252	473	567.9	0.83	*	43.4
059	Peace River South	576	0.78	*	40.5	1,422	140	179.2	0.78	*	40.7
060	Peace River North	1,043	0.79	*	40.9	2,549	240	314.2	0.76	*	39.8
061	Greater Victoria	4,482	0.99		51.6	8,688	999	955.5	1.05		54.5
062	Sooke	1,600	1.04		54.2	2,953	345	330.8	1.04		54.3
063	Saanich	988	0.93	*	48.4	2,042	188	193.8	0.97		50.5
064	Gulf Islands	170	0.77	*	40.0	425	32	47.9	0.67	*	34.8
065	Cowichan	1,123	0.89	*	46.4	2,422	249	290.2	0.86	*	44.7
066	Lake Cowichan	91	0.89		46.2	197	22	22.4	0.98		51.2
067	Ladysmith	412	1.09		56.4	730	80	82.8	0.97		50.3
068	Nanaimo	2,546	1.21	*	62.6	4,064	559	479.8	1.16	*	60.7
069	Qualicum	701	1.19	*	61.7	1,137	149	131.8	1.13		58.9
070	Alberni	887	1.12	*	58.4	1,519	222	174.5	1.27	*	66.3
071	Courtenay	1,123	0.94	*	48.8	2,302	255	264.7	0.96		50.2
072	Campbell River	1,050	1.13	*	58.9	1,783	245	206.3	1.19	*	61.9
075	Mission	980	0.88	*	45.8	2,138	220	240.2	0.92		47.7
076	Agassiz - Harrison	215	0.92		47.6	452	47	52.1	0.90		47.0
077	Summerland	188	1.01		52.5	358	38	37.0	1.03		53.5
078	Enderby	160	1.00		52.1	307	37	40.1	0.92		48.1
080	Kitimat	264	1.05		54.7	483	44	43.2	1.02		53.0
081	Fort Nelson	265	0.99		51.4	516	38	49.5	0.77		40.0
083	Central Coast	75	1.02		53.2	141	12	13.0	0.92		48.0
084	Vancouver Island West	69	1.06		55.2	125	12	7.3	1.65		85.7
085	Vancouver Island North	380	0.94		48.7	781	78	78.1	1.00		52.0
087	Stikine	14	1.00		51.9	27	2	2.1	0.96		50.0
088	Terrace	636	0.99		51.3	1,240	116	126.6	0.92		47.7
092	Nisga'a	74	0.99		51.4	144	21	18.8	1.12		58.3
094	Telegraph Creek	20	0.96		50.0	40	6	6.3	0.96		50.0
161	Vancouver - City Centre	2,437	1.14	*	59.2	4,119	553	478.8	1.15	*	60.2
162	Vancouver - Downtown E.side	1,191	0.99		51.6	2,308	226	236.0	0.96		49.9
163	Vancouver - North East	2,773	0.97		50.5	5,489	564	587.7	0.96		50.0
164	Vancouver - Westside	3,058	1.05	*	54.6	5,600	636	599.7	1.06		55.3
165	Vancouver - Midtown	2,596	1.01		52.3	4,960	543	540.8	1.00		52.3
166	Vancouver - South	3,298	0.99		51.4	6,418	691	687.7	1.00		52.3
201	Surrey	12,236	1.05	*	54.5	22,431	2,630	2,561.2	1.03		53.5
202	South Surrey/White Rock	1,417	1.04		54.1	2,618	273	280.3	0.97		50.7
PROVINCIAL TOTAL		105,373	1.00		51.9	202,871	22,672	22,672.0	1.00		52.1

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**
 BRITISH COLUMBIA, 2002–2006

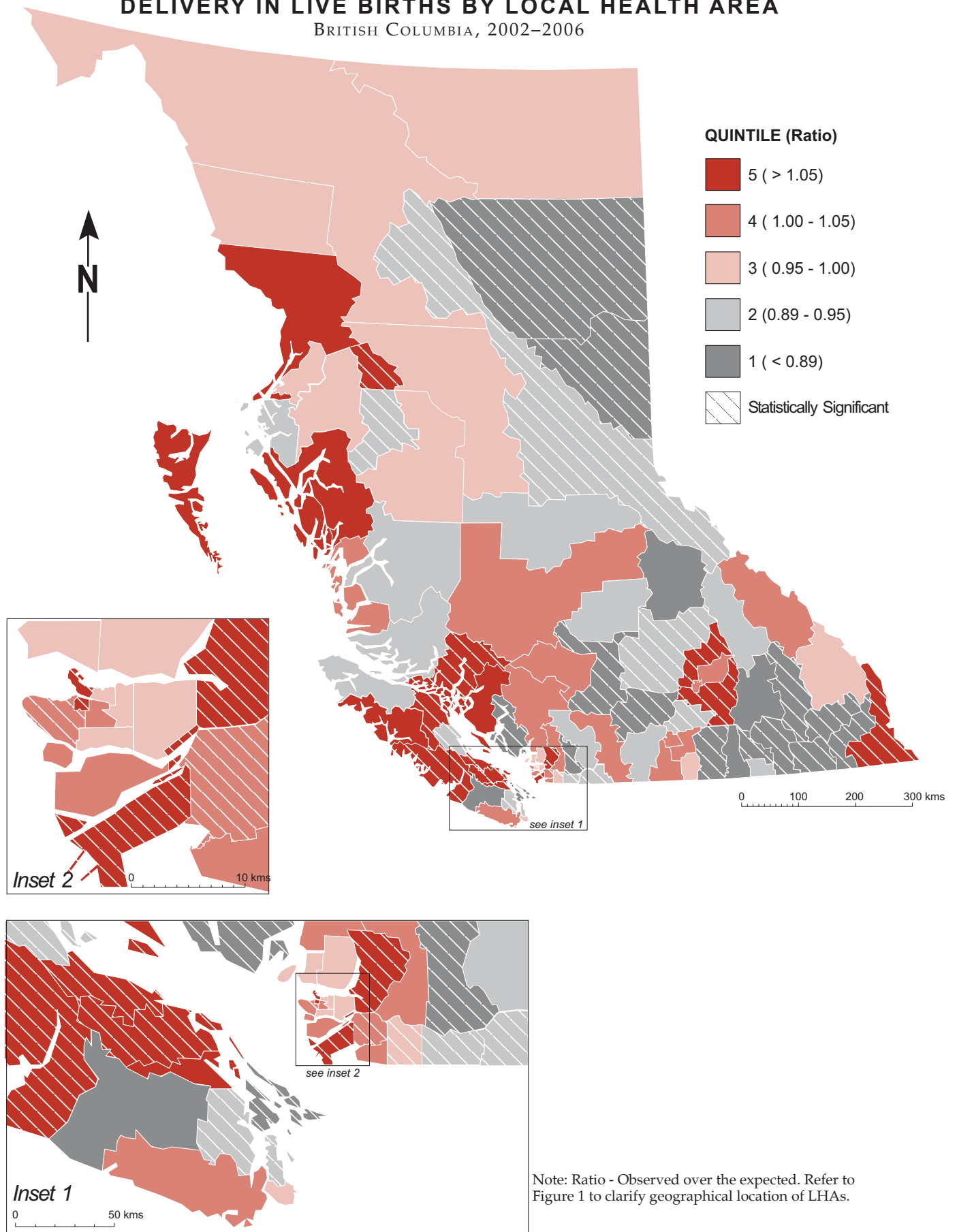


TABLE 19
PERINATAL COMPLICATIONS IN LIVE BIRTHS BY AGE OF MOTHER
 BRITISH COLUMBIA, 2002-2006 AND 2007

Perinatal Complications	ICD-10 Code	2002–2006		2007						
				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	37	-	1	2	1	-	-	4	-
Complications of pregnancy, labour and delivery	P01, P03	12,021	13.5	62	885	1,226	162	-	2,335	12.7
Fetus/newborn affected by complications of placenta, cord and membranes	P02	3,497	3.9	14	208	228	19	-	469	2.5
Fetus affected by noxious influences transmitted via placenta (or breast milk)	P04	14	0.0	-	5	5	1	-	11	-
Slow fetal growth and malnutrition	P05	3,324	3.7	17	153	166	22	-	358	1.9
Perinatal disorders related to short gestation	P072, P073	14,609	16.4	124	1,256	1,555	211	-	3,146	17.1
Disorders related to long gestation or high birth weight	P08	13,913	15.6	147	1,727	2,111	167	-	4,152	22.5
Perinatal birth trauma	P10-P15	264	0.3	3	28	28	3	-	62	0.3
Intrauterine hypoxia and birth asphyxia	P20-P21	40,346	45.2	352	3,523	3,496	291	-	7,662	41.6
Respiratory conditions of fetus and newborn	P22-P28	634	0.7	3	42	39	1	-	85	0.5
Cardiovascular disorders originating in the perinatal period	P29	-	-	-	-	-	-	-	-	-
Infections specific to the perinatal period	P35-P39	44	-	-	1	1	-	-	2	-
Fetal and neonatal hemorrhage	P50-P52, P54	117	0.1	1	8	10	-	-	19	0.1
Perinatal jaundice/other hematological disorders	P53, P55-P61	40	-	2	3	5	1	-	11	0.1
Perinatal endocrine and metabolic disorders	P70-P74	32	-	1	2	3	-	-	6	-
Digestive system disorders of fetus and newborn	P76-P78	4	-	-	1	-	-	-	1	-
Perinatal conditions of the integument and of temperature regulation	P80-P83	121	0.1	-	19	8	1	-	28	0.2
Other disorders originating in the perinatal period	P90-P96	203	0.2	3	34	41	1	-	79	0.4
All Perinatal Complications		89,220	100.0	730	7,897	8,923	880	-	18,430	100.0
Live births with the above perinatal complications	- Number	69,283		575	6,340	7,064	668	-	14,647	
	- Percent(*)	34.2		39.2	34.2	32.4	38.4		33.7	

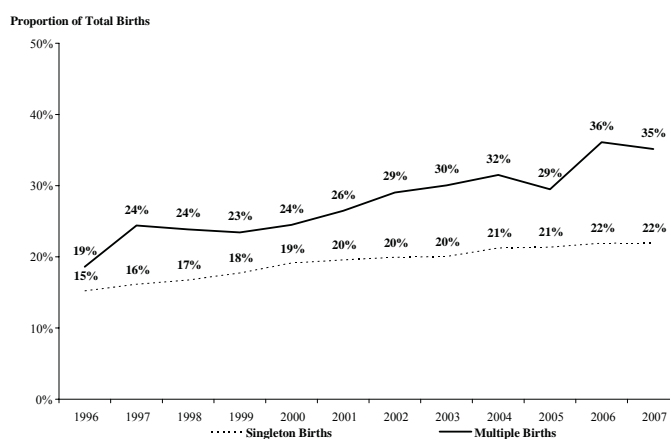
Note: Percent based upon perinatal complications. Percent (*) based upon live births for the maternal age group. Total percentage may not add up to 100 due to rounding. N.S. - Not stated. Non-residents are excluded.

Vital Statistics Information Box

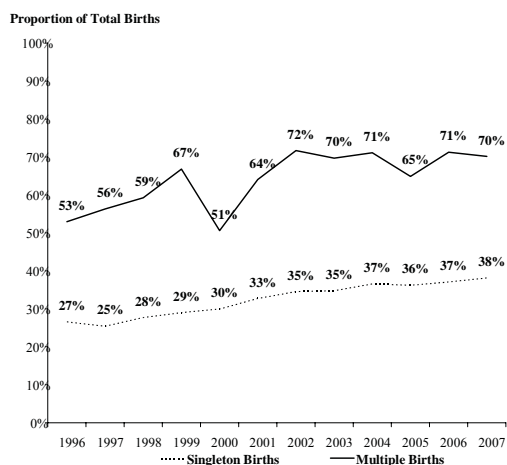
BIRTH AND OLDER MOTHERS IN BRITISH COLUMBIA 1996 - 2007

Older mothers, those aged 35 and over have increased their share of the total births to women in BC. Since 1996, the share of singleton births attributable to older mothers has increased by nearly 50 percent and the share of multiple births attributable to older mothers has nearly doubled. More of these births are via cesarean section, however, the proportion of these births considered to be Low Birth Weight has remained relatively stable.

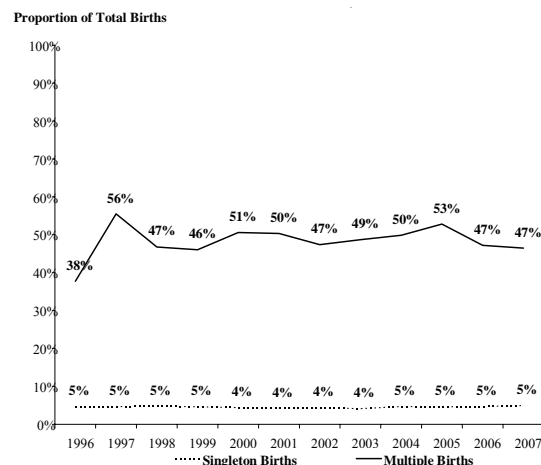
PROPORTION OF SINGLETON AND MULTIPLE BIRTHS
TO MOTHERS AGED 35 AND OLDER
BRITISH COLUMBIA, 1996 - 2007



PROPORTION OF SINGLETON AND MULTIPLE BIRTHS
TO MOTHERS AGED 35 AND OLDER BIRTHED
VIA CAESAREAN SECTION
BRITISH COLUMBIA, 1996 - 2007



PROPORTION OF SINGLETON AND MULTIPLE BIRTHS
TO MOTHERS AGED 35 AND OLDER WITH
LOW BIRTH WEIGHT (<2500 GRAMS)
BRITISH COLUMBIA, 1996 - 2007



60	Local Health Area	2002-2006					2007					
		Observed	Ratio	(p)	Percent	Total Live Births	Observed	Expected	Ratio	(p)	Percent	Total Live Births
		Births					Births	Births				
001	Fernie	260	1.28	*	43.6	597	49	51.2	0.96		32.2	152
002	Cranbrook	398	1.05		35.8	1,113	83	85.2	0.97		32.8	253
003	Kimberley	114	1.14		39.0	292	30	24.9	1.20		40.5	74
004	Windermere	132	1.14		39.1	338	33	29.6	1.11		37.5	88
005	Creston	226	1.13		38.4	588	39	38.4	1.02		34.2	114
006	Kootenay Lake	70	1.18		40.2	174	6	12.1	0.50		16.7	36
007	Nelson	354	0.95		32.5	1,089	79	78.4	1.01		33.9	233
009	Castlegar	165	1.10		37.5	440	43	37.4	1.15		38.7	111
010	Arrow Lakes	56	1.02		34.8	161	16	13.8	1.16		39.0	41
011	Trail	260	1.12		38.2	680	52	49.5	1.05		35.4	147
012	Grand Forks	108	0.94		32.1	336	17	21.2	0.80		27.0	63
013	Kettle Valley	33	0.72		24.6	134	4	7.1	0.57		19.0	21
014	Southern Okanagan	193	0.97		33.0	584	35	44.1	0.79		26.7	131
015	Penticton	521	1.04		35.6	1,464	129	107.4	1.20	*	40.4	319
016	Keremeos	77	1.21		41.4	186	13	13.5	0.97		32.5	40
017	Princeton	40	0.98		33.6	119	16	8.8	1.83	*	61.5	26
018	Golden	141	1.25	*	42.6	331	24	22.9	1.05		35.3	68
019	Revelstoke	157	1.22	*	41.6	377	37	23.2	1.59	*	53.6	69
020	Salmon Arm	482	1.20	*	41.0	1,175	99	84.1	1.18		39.6	250
021	Armstrong - Spallumcheen	134	1.05		35.7	375	31	30.0	1.03		34.8	89
022	Vernon	915	1.04		35.7	2,565	212	184.4	1.15	*	38.7	548
023	Central Okanagan	2,308	1.00		34.1	6,766	535	549.3	0.97		32.8	1,632
024	Kamloops	1,618	1.06	*	36.3	4,462	370	350.0	1.06		35.6	1,040
025	100 Mile House	198	1.20	*	41.1	482	49	35.7	1.37	*	46.2	106
026	North Thompson	76	1.01		34.5	220	25	18.5	1.35		45.5	55
027	Cariboo - Chilcotin	662	1.37	*	46.7	1,417	149	104.0	1.43	*	48.2	309
028	Quesnel	451	1.16	*	39.5	1,141	102	86.2	1.18		39.8	256
029	Lillooet	109	1.19		40.7	268	19	15.5	1.23		41.3	46
030	South Cariboo	102	1.03		35.3	289	21	20.9	1.01		33.9	62
031	Merritt	196	1.02		34.9	562	35	40.7	0.86		28.9	121
032	Hope	150	1.21	*	41.4	362	26	22.9	1.14		38.2	68
033	Chilliwack	1,820	1.20	*	40.8	4,456	414	342.6	1.21	*	40.7	1,018
034	Abbotsford	2,736	0.99		33.8	8,103	563	582.3	0.97		32.5	1,730
035	Langley	2,338	1.11	*	37.9	6,174	492	448.3	1.10	*	36.9	1,332
037	Delta	1,488	0.91	*	31.0	4,804	248	289.5	0.86	*	28.8	860
038	Richmond	2,208	0.83	*	28.4	7,770	438	588.0	0.74	*	25.1	1,747
040	New Westminster	1,175	1.07	*	36.6	3,208	254	233.9	1.09		36.5	695
041	Burnaby	3,009	0.84	*	28.7	10,478	637	781.9	0.81	*	27.4	2,323
042	Maple Ridge	1,716	1.13	*	38.5	4,459	414	316.0	1.31	*	44.1	939
043	Coquitlam	3,698	1.06	*	36.3	10,178	776	721.0	1.08	*	36.2	2,142
044	North Vancouver	1,870	0.87	*	29.8	6,279	357	405.2	0.88	*	29.7	1,204
045	West Vancouver-Bowen Is.	413	0.80	*	27.4	1,507	93	101.3	0.92		30.9	301
046	Sunshine Coast	331	1.06		36.2	915	90	66.6	1.35	*	45.5	198
047	Powell River	290	1.20	*	41.0	708	52	40.4	1.29		43.3	120
048	Howe Sound	665	1.00		34.2	1,947	160	162.6	0.98		33.1	483
049	Bella Coola Valley	119	1.32	*	45.2	263	20	11.1	1.80	*	60.6	33
050	Queen Charlotte	118	1.20	*	41.1	287	11	13.8	0.80		26.8	41
051	Snow Country	11	0.92		31.4	35	2	1.7	1.19		40.0	5
052	Prince Rupert	325	1.02		34.9	931	67	60.6	1.11		37.2	180
053	Upper Skeena	169	1.43	*	49.0	345	34	22.2	1.53	*	51.5	66
054	Smithers	382	1.00		34.2	1,116	79	71.0	1.11		37.4	211
055	Burns Lake	151	1.03		35.3	428	40	31.0	1.29		43.5	92
056	Nechako	423	1.12	*	38.3	1,103	103	74.7	1.38	*	46.4	222
057	Prince George	2,217	1.24	*	42.2	5,252	460	366.9	1.25	*	42.2	1,090
059	Peace River South	580	1.19	*	40.8	1,422	124	115.8	1.07		36.0	344
060	Peace River North	744	0.85	*	29.2	2,549	170	203.0	0.84	*	28.2	603
061	Greater Victoria	3,010	1.01		34.6	8,688	628	617.3	1.02		34.2	1,834
062	Sooke	1,098	1.09	*	37.2	2,953	235	213.7	1.10		37.0	635
063	Saanich	756	1.08	*	37.0	2,042	126	125.2	1.01		33.9	372
064	Gulf Islands	144	0.99		33.9	425	30	31.0	0.97		32.6	92
065	Cowichan	907	1.10	*	37.4	2,422	227	187.5	1.21	*	40.8	557
066	Lake Cowichan	77	1.14		39.1	197	12	14.5	0.83		27.9	43
067	Ladysmith	291	1.17	*	39.9	730	57	53.5	1.07		35.8	159
068	Nanaimo	1,884	1.36	*	46.4	4,064	398	310.0	1.28	*	43.2	921
069	Qualicum	498	1.28	*	43.8	1,137	94	85.2	1.10		37.2	253
070	Alberni	583	1.12	*	38.4	1,519	146	112.8	1.29	*	43.6	335
071	Courtenay	860	1.09	*	37.4	2,302	167	171.0	0.98		32.9	508
072	Campbell River	760	1.25	*	42.6	1,783	172	133.3	1.29	*	43.4	396
075	Mission	810	1.11	*	37.9	2,138	159	155.2	1.02		34.5	461
076	Agassiz - Harrison	181	1.17	*	40.0	452	42	33.7	1.25		42.0	100
077	Summerland	140	1.15		39.1	358	19	23.9	0.80		26.8	71
078	Enderby	110	1.05		35.8	307	30	25.9	1.16		39.0	77
080	Kitimat	194	1.18	*	40.2	483	36	27.9	1.29		43.4	83
081	Fort Nelson	146	0.83	*	28.3	516	29	32.0	0.91		30.5	95
083	Central Coast	53	1.10		37.6	141	13	8.4	1.54		52.0	25
084	Vancouver Island West	59	1.38	*	47.2	125	8	4.7	1.70		57.1	14
085	Vancouver Island North	329	1.23	*	42.1	781	72	50.5	1.43	*	48.0	150
087	Stikine	16	1.74	*	59.3	27	2	1.3	1.49		50.0	4
088	Terrace	499	1.18	*	40.2	1,240	90	81.8	1.10		37.0	243
092	Nisga'a	54	1.10		37.5	144	19	12.1	1.57	*	52.8	36
094	Telegraph Creek	13	0.95		32.5	40	6	4.0	1.49		50.0	12
161	Vancouver - City Centre	1,313	0.93	*	31.9	4,119	286	309.3	0.92		31.1	919
162	Vancouver - Downtown E.side	811	1.03		35.1	2,308	143	152.5	0.94		31.6	453
163	Vancouver - North East	1,485	0.79	*	27.1	5,489	302	379.7	0.80	*	26.8	1,128
164	Vancouver - Westside	1,718	0.90	*	30.7	5,600	321	387.4	0.83	*	27.9	1,151
165	Vancouver - Midtown	1,457	0.86	*	29.4	4,960	332	349.4	0.95		32.0	1,038
166	Vancouver - South	1,727	0.79	*	26.9	6,418	352	444.3	0.79	*	26.7	1,320
201	Surrey	6,629	0.87	*	29.6	22,431	1,411	1,654.6	0.85	*	28.7	4,916
202	South Surrey/White Rock	928	1.04		35.4	2,618	202	181.1	1.12		37.5	538
	PROVINCIAL TOTAL	69,283	1.00		34.2	202,871	14,647	14,647.0	1.00		33.7	43,517

Note: *Statistical testing indicates that 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 births is based on total live births and includes residents with unknown LHA and exclude non-residents.

FIGURE 34
**PERINATAL COMPLICATIONS IN LIVE BIRTHS
 BY LOCAL HEALTH AREA**
 BRITISH COLUMBIA, 2002–2006

