

Birth-related Statistics



Birth Introduction

Statistics based on birth events form a critical 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 order by mother's age. About 82.2 percent of live births in 2010 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 2010 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 (51.3 percent) in 2010 were to mothers 30 to 39 years old and 41.2 percent were to mothers in their 20s. Only 3.0 percent were to mothers less than 20 years old and 4.4 percent to those 40 or older. For fathers, over half (52.9 percent) were in their 30s, more than a quarter (27.1 percent) were in their 20s, 14.3 percent were in their 40s or older, and 0.9 percent were less than 20 years old. In 4.7 percent of births, the father's age was not indicated.

Less than one percent (0.8 percent) of births (330) were to couples who were both in their teens; births to couples in which at least one person was a teen, made up 3.2 percent (1,395) of births.

While there were only 110 births (0.3 percent) to mothers age 45 years old and over, 4.6 percent (1,992) of all newborns had fathers in that age group.

Table 9 shows the number of births by birth kind (single, twin, triplet+) according to the mother's age group. In 2010, 5.1 percent of live births to mothers 35 years and older were multiple births, whereas 2.7 percent of live births to mothers aged 20 to 34 were multiples. Teenagers had the lowest proportion of multiple births.

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 2010.

Table 10 shows the 2010 fertility rates in the LHA where the mother resided and by maternal age groups. The table also shows the number of live births to women 15-19 years of age over the five-year period 2005-2009 and the fertility rate for that age group.

In Figure 29 the Age Specific Fertility Rate (ASFR) statistics for 15-19 year olds for the five-year period 2005-2009 are shown by LHA. The ASFR is described more fully in the Glossary and an example of the calculation method is shown in the Methodology section.

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

Cesarean section deliveries in BC increased from 209.59 per 1,000 live births in 1986 to 313.65 per 1,000 live births in 2010 (see Figure 11).

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

The columns on the right side of the table indicate the total number of live births in 2010 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 section delivery rates, see also Figures 11, 12, and 13.

In Figure 30, the LHAs are grouped by their ratio of observed number of cesarean live births over expected number of cesarean live births for 2010. 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 PLACE OF BIRTH

BRITISH COLUMBIA, 2010

Area	Province/Country	Births
Canada	Total	29,214
	British Columbia	21,265
	Alberta	2,576
	Ontario	2,525
	Manitoba	776
	Saskatchewan	770
	Quebec	575
	Nova Scotia	251
	Newfoundland & Labrador	174
	New Brunswick	155
	Yukon	65
	Northwest Territories	48
	Prince Edward Island	32
	Nunavut	2
North and Central America	Total	1,204
	United States	659
	Mexico	267
	Other North and Central American Countries	278
South America		302
Europe	Total	2,116
	United Kingdom	607
	Germany	210
	Russia	167
	Romania	153
	Poland	126
	Ukraine	110
	Netherlands	71
	Slovakia	60
	France	52
	Scandinavian Countries	49
	Other European Countries	511
Asia and the Middle East	Total	9,580
	India	2,736
	China	2,281
	Philippines	1,414
	Korea South	468
	Japan	330
	Taiwan	289
	Vietnam	440
	Iran	274
	Hong Kong	249
	Pakistan	208
	Afghanistan	111
	Other Asian and Middle Eastern Countries	780
Africa	Total	550
	South Africa	151
	Other African Countries	399
Oceania	Total	425
	Fiji	219
	Australia	132
	New Zealand	66
	Other Oceanic Countries	8
Unknown	Total	276
Total		43,667

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, 2010

Age of Mother	Birth Order										Total Live Births	Stillbirths	Total Births
	1	2	3	4	5	6	7	8	9+	N.S.			
<14	2	-	-	-	-	-	-	-	-	-	2	-	2
14	11	2	-	-	-	-	-	-	-	-	13	-	13
15	38	-	-	-	-	-	-	-	-	-	38	4	42
16	112	2	-	-	-	-	-	-	-	-	114	3	117
17	188	19	-	-	-	-	-	-	-	-	207	7	214
18	337	48	1	-	-	-	-	-	-	-	386	8	394
19	454	89	8	3	-	-	-	-	-	-	554	9	563
20	577	170	27	3	-	-	-	-	-	-	777	18	795
21	643	234	49	8	1	-	-	-	-	-	935	10	945
22	685	317	72	13	1	-	-	-	-	-	1,088	12	1,100
23	782	410	115	21	5	-	-	-	-	-	1,333	11	1,344
24	911	535	143	32	9	3	1	-	-	-	1,634	23	1,657
25	980	623	198	58	15	2	-	-	-	-	1,876	21	1,897
26	1,185	669	204	64	10	5	3	1	-	-	2,141	20	2,161
27	1,366	790	233	71	16	6	4	-	-	-	2,486	26	2,512
28	1,441	913	286	91	22	16	2	1	-	-	2,772	26	2,798
29	1,482	1,000	333	112	28	9	5	1	-	-	3,970	19	2,989
30	1,444	1,090	357	100	25	21	4	3	1	-	3,045	24	3,069
31	1,392	1,089	380	112	34	11	6	3	2	-	3,029	23	3,052
32	1,201	1,109	435	122	39	15	8	-	2	-	2,931	26	2,957
33	1,083	1,118	360	104	37	9	10	2	2	-	2,725	26	2,751
34	888	1,074	362	107	35	8	7	1	5	-	2,487	20	2,507
35	818	962	373	100	27	13	11	3	2	-	2,309	22	2,331
36	634	797	306	106	26	10	6	4	2	-	1,891	16	1,907
37	493	710	293	110	46	14	6	4	3	-	1,679	20	1,699
38	392	532	208	79	20	7	7	4	4	-	1,253	9	1,262
39	320	448	170	81	31	10	6	3	1	-	1,070	19	1,089
40	216	292	140	58	18	12	4	-	3	-	743	9	752
41	153	184	91	39	16	3	7	4	6	-	503	11	514
42	74	119	52	28	5	4	-	3	3	-	288	7	295
43	41	64	35	9	10	2	-	1	1	-	1673	2	165
44	36	46	20	4	3	2	1	2	1	-	115	4	119
45+	37	38	17	9	2	1	1	2	3	-	110	2	112
TOTAL	20,416	15,493	5,268	1,644	481	183	99	42	41	-	43,667	457	44,124
PERCENT	46.8	35.5	12.1	3.8	1.1	0.4	0.2	0.1	0.1	-	100.0		

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

TABLE 8
**TOTAL LIVE BIRTHS BY AGE OF FATHER,
 AGE OF MOTHER AND OUT-OF-WEDLOCK**
 BRITISH COLUMBIA, 2010

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	4	325	71	9	1	-	-	-	-	410	0.9
20-24	2	504	1,806	432	80	27	4	-	-	2,855	6.5
25-29	1	163	2,229	5,099	1,252	206	26	-	-	8,976	20.6
30-34	-	28	794	4,340	6,633	1,273	119	3	-	13,190	30.2
35-39	-	6	220	1,335	4,299	3,672	380	10	-	9,922	22.7
40-44	-	2	65	357	1,153	1,941	704	29	-	4,251	9.7
45+	-	4	48	159	415	817	491	58	-	1,992	4.6
N.S.	8	266	534	514	384	266	88	10	-	2,070	4.7
TOTAL	15	1,299	5,767	12,245	14,217	8,202	1,812	110	-	43,667	
Percent	0.0	3.0	13.2	28.0	32.6	18.8	4.1	0.3			100.0
Out-of-Wedlock	13	1,152	3,427	3,442	2,512	1,431	397	23	-	12,397	

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 741 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, 2010

Age of Mother	Kind of Birth				Total
	Single	Twin	Triplets+	N.S.	
< 15	13	2	-	-	15
15-19	1,277	22	-	-	1,299
20-24	5,652	115	-	-	5,767
25-29	11,956	279	10	-	12,245
30-34	13,766	448	3	-	14,217
35-39	7,827	375	-	-	8,202
40-44	1,705	106	1	-	1,812
45 +	78	32	-	-	110
N.S.	-	-	-	-	-
TOTAL	42,274	1,379	14	-	43,667

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

		2005–2009 Teenage Fertility Rate (15–19 yrs)			2010 ASFR ¹						TFR ²	
Local Health Area		Observed	ASFR ¹	(p)	15–19	20–24	25–29	30–34	35–39	40–44	Rate	(p)
001 Fernie	24	10.06			10.87	56.42	99.50	94.07	40.08	4.07	1,525.10	
002 Cranbrook	92	21.65	*		9.74	52.34	147.80	103.60	42.27	10.01	1,828.83	*
003 Kimberley	14	11.44			17.24	88.61	160.43	94.65	34.48	3.50	1,994.53	*
004 Windermere	17	11.10			2.72	48.78	90.91	68.05	38.69	11.63	1,303.90	
005 Creston	59	29.96	*		18.04	62.35	143.94	66.90	26.06	12.08	1,646.88	
006 Kootenay Lake	1	1.88	*		9.62	26.09	192.98	103.09	64.75	-	1,982.63	
007 Nelson	36	8.95			5.13	18.78	95.03	90.43	47.09	22.54	1,394.98	
009 Castlegar	6	2.92	*		9.11	41.86	107.34	120.23	27.60	8.40	1,572.78	
010 Arrow Lakes	5	8.49			-	50.51	164.38	49.02	32.79	13.89	1,552.92	
011 Trail	41	12.41			7.78	51.59	118.03	87.76	61.78	11.09	1,690.12	*
012 Grand Forks	16	13.19			4.07	16.95	95.51	82.42	33.02	3.86	1,179.09	
013 Kettle Valley	4	9.66			-	-	140.35	73.17	64.52	19.80	1,489.20	
014 Southern Okanagan	40	16.51	*		12.55	63.94	152.34	67.16	37.36	6.15	1,697.55	
015 Penticton	76	12.80			12.24	59.95	93.27	81.67	39.05	7.36	1,467.71	
016 Keremeos	10	14.53			20.69	102.27	179.10	68.63	27.03	30.08	2,138.98	*
017 Princeton	16	24.17	*		28.78	164.56	184.62	131.58	33.06	6.58	2,745.83	*
018 Golden	10	9.26			4.59	46.61	62.27	112.84	56.52	16.39	1,496.12	
019 Revelstoke	22	16.47			4.26	71.70	100.42	149.12	50.98	3.82	1,901.46	*
020 Salmon Arm	68	12.38			10.91	70.26	118.40	77.13	42.29	6.76	1,628.72	*
021 Armstrong - Spallumcheen	17	10.32			14.49	66.01	192.12	102.13	52.00	3.56	2,151.52	*
022 Vernon	133	12.74	*		14.68	49.11	150.59	97.53	39.78	6.93	1,793.17	*
023 Central Okanagan	284	10.42			10.10	45.95	83.83	101.87	43.53	7.17	1,462.26	
024 Kamloops	211	11.67			14.37	51.11	98.86	95.14	38.25	7.66	1,526.95	*
025 100 Mile House	31	12.82			4.26	46.65	124.11	34.84	40.54	-	1,252.07	
026 North Thompson	12	15.40			19.23	62.50	97.09	125.00	24.59	-	1,642.04	
027 Cariboo - Chilcotin	132	27.87	*		27.69	57.35	99.64	95.67	39.68	1.11	1,605.70	
028 Quesnel	113	26.85	*		18.16	69.91	136.74	75.27	32.76	2.42	1,676.30	*
029 Lillooet	23	31.77	*		43.80	65.36	125.00	74.07	34.72	18.02	1,804.85	
030 South Cariboo	32	25.70	*		7.97	103.90	118.28	57.80	43.17	17.39	1,742.52	
031 Merritt	61	30.14	*		24.75	79.79	114.48	72.78	11.76	13.12	1,583.45	
032 Hope	40	31.23	*		7.87	57.69	81.97	116.02	35.53	3.94	1,515.13	
033 Chilliwack	268	19.37	*		19.48	83.77	138.18	90.98	37.58	6.89	1,884.38	*
034 Abbotsford	280	12.31	*		12.46	60.01	115.88	95.95	42.12	8.76	1,675.88	*
035 Langley	153	6.71	*		7.13	38.14	104.10	119.77	46.67	9.38	1,625.97	*
037 Delta	59	3.24	*		1.74	19.27	82.41	128.80	70.75	9.52	1,562.48	*
038 Richmond	57	1.84	*		1.65	10.11	56.11	96.57	59.25	11.61	1,176.49	*
040 New Westminster	65	8.39			5.51	23.94	51.83	87.25	72.31	15.27	1,280.50	*
041 Burnaby	128	4.08	*		4.12	18.97	47.40	94.20	64.73	13.60	1,215.04	*
042 Maple Ridge	111	6.99	*		5.60	35.30	118.41	115.12	43.53	7.64	1,628.01	*
043 Coquitlam	129	3.48	*		3.05	16.91	63.22	120.90	67.52	12.16	1,418.83	
044 North Vancouver	48	2.16	*		2.69	9.71	39.64	114.72	78.66	14.56	1,299.90	*
045 West Vancouver-Bowen Isl.	28	2.92	*		0.96	6.91	44.18	135.10	69.28	12.48	1,344.51	
046 Sunshine Coast	45	10.04			10.84	52.63	149.73	136.86	44.62	8.96	2,018.26	*
047 Powell River	36	11.96			12.97	42.79	106.22	100.00	54.69	4.72	1,606.92	
048 Howe Sound	59	12.53			12.38	45.58	64.36	99.77	77.30	13.49	1,564.40	*
049 Bella Coola Valley	34	65.64	*		86.42	73.39	178.57	95.24	68.18	-	2,509.03	*
050 Queen Charlotte	14	19.72			7.87	130.08	56.45	41.67	70.92	-	1,534.98	
051 Snow Country	2	27.78			-	-	-	-	-	-	-	
052 Prince Rupert	104	35.06	*		34.99	92.15	135.55	139.94	61.26	18.07	2,409.85	*
053 Upper Skeena	41	34.60	*		48.25	83.77	82.19	105.26	42.68	11.24	1,866.95	*
054 Smithers	71	22.11	*		22.19	80.84	153.66	151.93	55.45	17.05	2,405.59	*
055 Burns Lake	32	21.21	*		20.13	78.95	91.84	45.92	32.86	-	1,348.50	
056 Nechako	103	37.16	*		37.88	156.78	195.12	90.15	51.34	10.14	2,707.04	*
057 Prince George	353	20.55	*		18.35	63.28	95.86	104.58	37.34	4.42	1,619.13	*
059 Peace River South	129	25.92	*		24.88	83.92	128.57	87.61	20.99	3.25	1,746.11	*
060 Peace River North	202	32.83	*		27.05	129.18	143.25	92.80	43.27	8.24	2,218.95	*
061 Greater Victoria	232	7.79	*		7.72	20.64	40.42	84.20	59.54	13.42	1,129.67	*
062 Sooke	95	8.86			11.81	65.75	125.44	101.94	41.94	7.59	1,772.39	*
063 Saanich	72	7.08	*		7.68	20.53	90.39	130.68	62.05	10.08	1,607.02	*
064 Gulf Islands	14	7.34			7.77	31.88	125.00	102.31	61.01	7.69	1,678.33	
065 Cowichan	192	18.46	*		19.79	58.15	119.59	93.46	44.09	6.32	1,706.96	*
066 Lake Cowichan	14	13.54			8.44	31.58	53.69	64.52	18.40	10.64	936.34	*
067 Ladysmith	50	18.09	*		23.39	66.27	114.11	84.75	31.18	3.35	1,615.21	
068 Nanaimo	215	13.25	*		11.42	50.82	91.34	95.40	43.81	6.65	1,497.14	*
069 Qualicum	41	7.23	*		5.94	40.47	134.38	90.91	50.96	9.09	1,658.71	*
070 Alberni	158	31.02	*		39.34	85.60	108.41	81.45	38.89	5.39	1,795.34	*
071 Courtenay	104	10.28			8.66	49.59	144.35	96.70	45.12	5.68	1,750.46	*
072 Campbell River	130	18.74	*		15.82	64.22	106.86	85.28	36.92	8.25	1,586.70	*
075 Mission	105	13.89	*		11.24	54.89	122.30	98.15	48.06	9.38	1,720.10	*
076 Agassiz - Harrison	48	34.78	*		25.48	106.72	96.49	74.07	26.52	7.55	1,684.12	*
077 Summerland	21	10.40			2.63	39.63	169.93	74.77	42.64	6.25	1,679.26	
078 Enderby	24	18.49	*		19.53	55.56	173.18	94.94	35.29	9.48	1,939.90	*
080 Kitimat	42	21.28	*		28.49	50.30	120.00	59.26	10.03	18.62	1,433.48	*
081 Fort Nelson	48	47.62	*		58.20	123.81	97.40	43.62	30.89	8.89	1,814.07	*
083 Central Coast	16	49.08	*		45.45	76.92	129.63	78.43	51.28	-	1,908.60	*
084 Vancouver Island West	19	51.91	*		35.71	117.65	108.70	45.45	37.74	21.51	1,833.76	*
085 Vancouver Island North	94	42.04	*		24.88	101.01	133.12	114.80	35.19	2.60	2,057.97	*
087 Stikine	2	15.27			-	76.92	52.63	60.61	-	-	950.80	
088 Terrace	128	31.92	*		18.20	78.56	114.29	117.22	42.04	7.92	1,891.13	*
092 Nisga'a	36	84.71	*		62.50	145.16	245.61	118.64	58.82	15.15	3,229.47	*
094 Telegraph Creek	5	30.67			-	114.29	210.53	111.11	52.63	-	2,442.77	*
161 Vancouver - City Centre	23	4.04	*		0.97	9.48	18.68	50.87	50.01	16.74	733.74	*
162 Vancouver - Dwt'n E.side	68	13.63	*		10.07	21.81	34.59	52.93	46.35	9.23	874.91	*
163 Vancouver - North East	84	5.94	*		5.05	18.76	54.43	90.34	67.80	17.55	1,269.65	*
164 Vancouver - Westside	24	1.24	*		0.23	4.27	25.20	75.92	71.31	16.86	968.99	*
165 Vancouver - Midtown	48	5.17	*		3.48	13.05	36.10	79.23	70.59	15.80	1,091.26	*
166 Vancouver - South	105	5.13	*		3.55	19.23	52.69	81.87	60.37	14.56	1,161.34	*
201 Surrey	563	9.14	*		9.68	47.15	113.69	113.50	55.13	12.22	1,756.90	*
202 South Surrey/White Rock	30	2.41	*		4.24	18.26	82.98	148.39	63.39	14.35	1,658.12	*
PROVINCIAL TOTAL	7,052	10.32			9.45	36.91	76.48	95.26	54.16	11.04	1,416.51	

Notes for this table follow the map.

FIGURE 29
LIVE BIRTH TEENAGE FERTILITY RATES BY LOCAL HEALTH AREA
 BRITISH COLUMBIA, 2005-2009

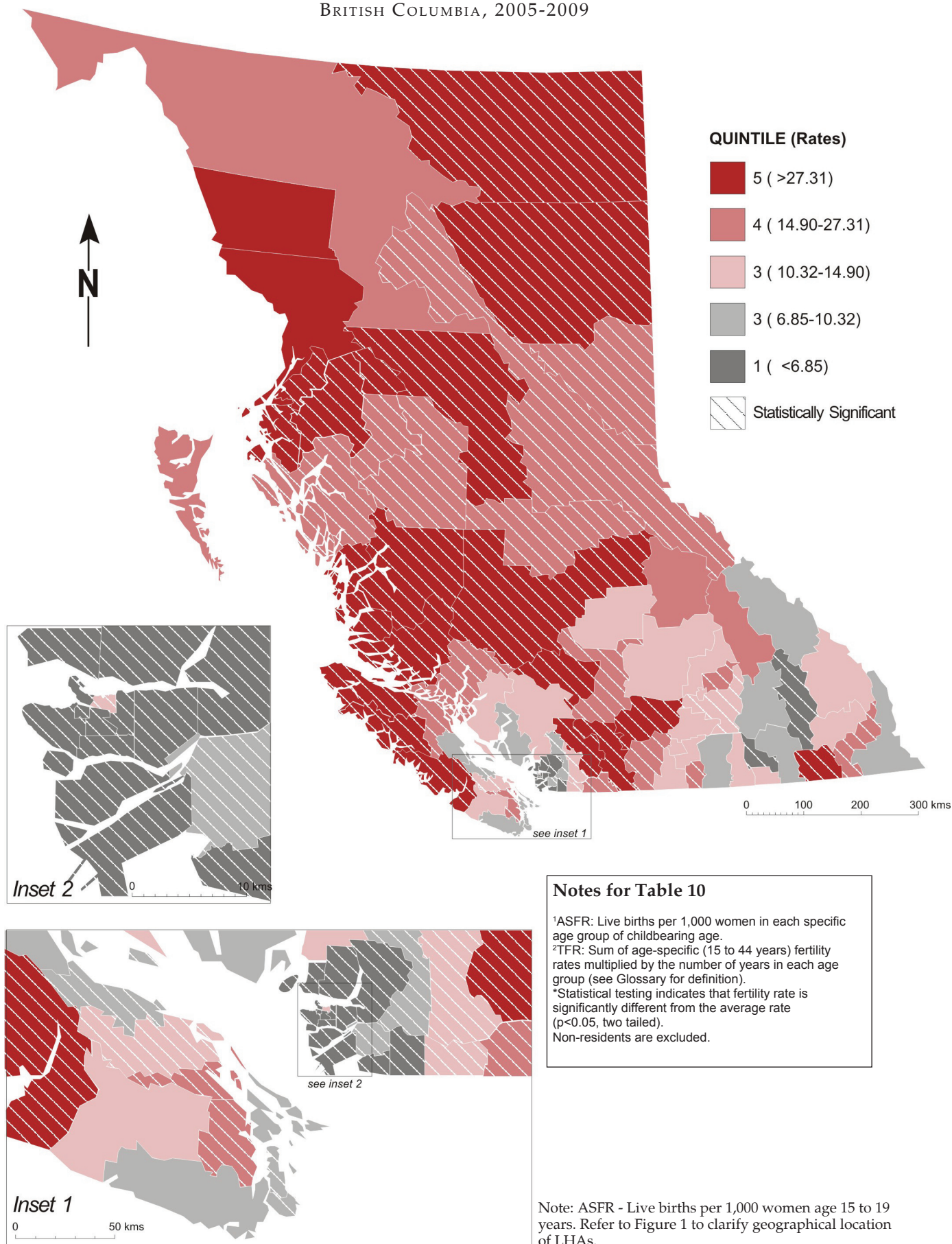


TABLE 11
LIVE BIRTHS BY MODE OF DELIVERY AND AGE OF MOTHER
 BRITISH COLUMBIA, 2010

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	10	944	3,814	7,445	8,139	4,286	831	32	-	25,501
Percent	66.7	72.7	66.1	60.8	57.2	52.3	45.9	29.1	-	58.4
Spontaneous breech	-	6	14	36	46	35	11	-	-	148
Percent	0.0	0.5	0.2	0.3	0.3	0.4	0.6	0.0	-	0.3
Forceps	1	30	149	412	485	244	49	4	-	1,374
Percent	6.7	2.3	2.6	3.4	3.4	3.0	2.7	3.6	-	3.1
Vacuum	2	93	443	931	918	453	106	2	-	2,948
Percent	13.3	7.2	7.7	7.6	6.5	5.5	5.8	1.8	-	6.8
First cesarean	2	212	1,008	2,301	2,720	1,688	433	52	-	8,416
Percent	13.3	16.3	17.5	18.8	19.1	20.6	23.9	47.3	-	19.3
Repeat cesarean	-	14	339	1,120	1,909	1,496	382	20	-	5,280
Percent	0.0	1.1	5.9	9.1	13.4	18.2	21.1	18.2	-	12.1
N.S.	-	-	-	-	-	-	-	-	-	-
TOTAL	15	1,299	5,767	12,245	14,217	8,202	1,812	110	-	43,667
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, 2006-2010

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 2006 to 2010.

Place of Birth	2006		2007		2008		2009		2010	
	No.	%	No.	%	No.	%	No.	%	No.	%
Hospital	1,760	74.1	2,053	75.6	2,509	76.2	2,944	75.9	3,394	77.3
Home	223	9.4	647	23.8	726	22.18	856	22.1	913	20.8
Other & unknown*	393	16.5	16	0.6	57	1.7	77	2.0	86	2.0
Midwife Assisted Births	2,376	100.0	2,716	100.0	3,292	100.0	3,877	100.0	4,393	100.0
Percent of Total Births Delivered by Registered Midwives		5.7		6.2		7.5		8.6		10.1

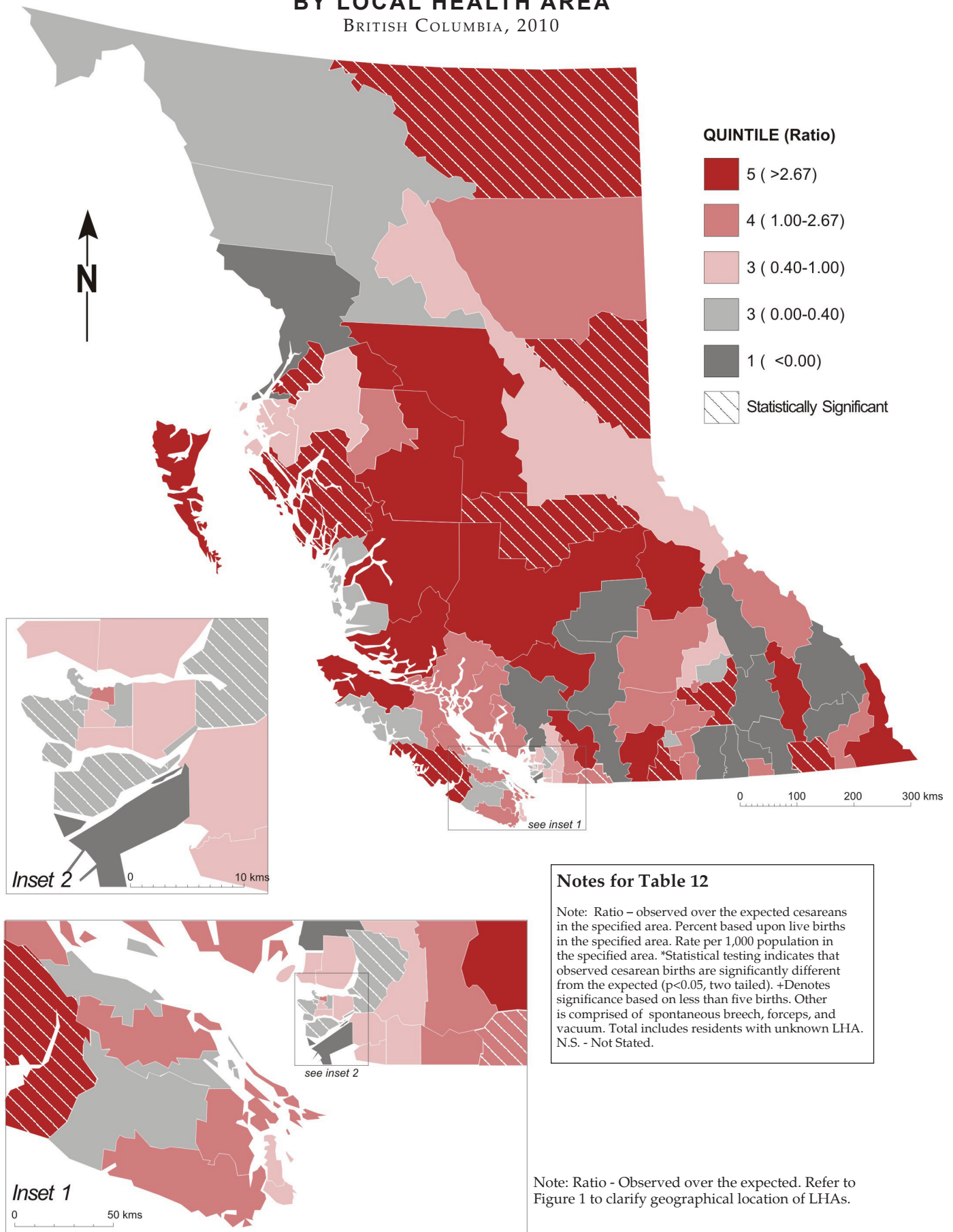
Note: *Other and unknown includes birthing clinics.

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Local Health Area		Spontaneous Vertex	Cesarean						Other	N.S.	Total Live Births	
			First	Repeat	Total	Expected	Ratio (p)	Percent			Number	Rate
001	Fernie	84	33	16	49	44.22	1.11	34.8	8	-	141	9.37
002	Cranbrook	182	54	36	90	87.51	1.03	32.3	7	-	279	10.79
003	Kimberley	55	19	12	31	27.60	1.12	35.2	2	-	88	10.27
004	Windermere	56	18	8	26	28.23	0.92	28.9	8	-	90	8.33
005	Creston	62	14	20	34	31.99	1.06	33.3	6	-	102	7.94
006	Kootenay Lake	25	5	2	7	10.66	0.66	20.6	2	-	34	8.70
007	Nelson	157	27	17	44	66.18	0.66	20.9	10	-	211	8.34
009	Castlegar	73	24	14	38	37.01	1.03	32.2	7	-	118	8.69
010	Arrow Lakes	20	4	5	9	9.10	0.99	31.0	-	-	29	5.99
011	Trail	107	40	16	56	53.95	1.04	32.6	9	-	172	8.92
012	Grand Forks	26	10	6	16	14.11	1.13	35.6	3	-	45	5.06
013	Kettle Valley	17	4	1	5	6.90	0.72	22.7	-	-	22	5.92
014	Southern Okanagan	70	21	10	31	37.32	0.83	26.1	18	-	119	6.10
015	Penticton	197	50	29	79	100.05	0.79	24.8	43	-	319	7.70
016	Keremeos	21	9	5	14	11.92	1.17	36.8	3	-	38	7.24
017	Princeton	29	9	1	10	14.11	0.71	22.2	6	-	45	8.53
018	Golden	37	19	8	27	23.52	1.15	36.0	11	-	75	10.19
019	Revelstoke	55	13	13	26	28.86	0.90	28.3	11	-	92	11.60
020	Salmon Arm	159	60	33	93	84.37	1.10	34.6	17	-	269	7.71
021	Armstrong - Spallumcheen	72	14	14	28	32.31	0.87	27.2	3	-	103	10.64
022	Vernon	369	94	75	169	182.86	0.92	29.0	45	-	583	8.86
023	Central Okanagan	1,016	297	205	502	521.91	0.96	30.2	146	-	1,664	8.98
024	Kamloops	595	224	140	364	328.07	1.11	34.8	87	-	1,046	9.43
025	100 Mile House	47	20	10	30	26.66	1.13	35.3	8	-	85	5.71
026	North Thompson	31	4	1	5	11.92	0.42	13.2	2	-	38	8.81
027	Cariboo - Chilcotin	181	38	27	65	83.74	0.78	24.3	21	-	267	9.96
028	Quesnel	139	42	26	68	72.45	0.94	29.4	24	-	231	9.71
029	Lillooet	33	6	6	12	15.06	0.80	25.0	3	-	48	10.77
030	South Cariboo	47	9	10	19	21.33	0.89	27.9	2	-	68	9.14
031	Merritt	67	17	17	34	33.25	1.02	32.1	5	-	106	9.18
032	Hope	42	8	8	16	19.13	0.84	26.2	3	-	61	7.38
033	Chilliwack	616	191	122	313	318.04	0.98	30.9	85	-	1,014	11.72
034	Abbotsford	997	318	217	535	541.67	0.99	31.0	195	-	1,727	12.49
035	Langley	810	272	176	448	431.26	1.04	32.6	117	-	1,375	10.48
037	Delta	466	161	121	282	264.40	1.07	33.5	95	-	843	8.36
038	Richmond	927	290	240	530	518.77	1.02	32.0	197	-	1,654	8.40
040	New Westminster	362	164	83	247	217.67	1.13	35.6	85	-	694	10.37
041	Burnaby	1,186	509	257	766	690.65	1.11	34.8	250	-	2,202	9.68
042	Maple Ridge	499	212	124	336	302.98	1.11	34.8	131	-	966	10.18
043	Coquitlam	1,172	445	257	702	662.73	1.06	33.2	239	-	2,113	9.56
044	North Vancouver	689	233	140	373	370.42	1.01	31.6	119	-	1,181	8.33
045	West Vancouver-Bowen Island	129	56	43	99	81.23	1.22	38.2	31	-	259	4.92
046	Sunshine Coast	121	45	32	77	69.32	1.11	34.8	23	-	221	7.37
047	Powell River	88	31	18	49	46.11	1.06	33.3	10	-	147	7.32
048	Howe Sound	270	115	51	166	148.04	1.12	35.2	36	-	472	13.15
049	Bella Coola Valley	26	7	6	13	13.80	0.94	29.5	5	-	44	14.98
050	Queen Charlotte	24	10	4	14	12.55	1.12	35.0	2	-	40	8.71
051	Snow Country	-	-	-	-	-	-	-	-	-	-	-
052	Prince Rupert	142	30	23	53	67.12	0.79	24.8	19	-	214	14.89
053	Upper Skeena	44	11	4	15	19.45	0.77	24.2	3	-	62	11.47
054	Smithers	157	37	20	57	72.14	0.79	24.8	16	-	230	14.19
055	Burns Lake	43	8	8	16	19.45	0.82	25.8	3	-	62	7.79
056	Nechako	155	39	28	67	74.33	0.90	28.3	15	-	237	15.79
057	Prince George	709	174	115	289	337.17	0.86	26.9	77	-	1,075	11.08
059	Peace River South	186	51	38	89	96.29	0.92	29.0	32	-	307	11.16
060	Peace River North	395	88	81	169	187.56	0.90	28.3	34	-	598	16.89
061	Greater Victoria	1,125	377	199	576	572.09	1.01	31.6	123	-	1,824	8.19
062	Sooke	485	167	118	285	259.07	1.10	34.5	56	-	826	11.86
063	Saanich	273	63	49	112	129.54	0.86	27.1	28	-	413	6.46
064	Gulf Islands	71	15	11	26	31.68	0.82	25.7	4	-	101	6.33
065	Cowichan	386	69	53	122	163.41	0.75	23.4	13	-	521	9.03
066	Lake Cowichan	22	5	3	8	9.72	0.82	25.8	1	-	31	4.77
067	Ladysmith	96	12	17	29	41.71	0.70	21.8	8	-	133	7.13
068	Nanaimo	613	140	103	243	294.51	0.83	25.9	83	-	939	9.00
069	Qualicum	163	44	24	68	80.92	0.84	26.4	27	-	258	5.65
070	Alberni	189	57	33	90	104.44	0.86	27.0	54	-	333	10.53
071	Courtenay	354	101	50	151	170.62	0.88	27.8	39	-	544	8.42
072	Campbell River	214	46	46	92	108.52	0.85	26.6	40	-	346	8.28
075	Mission	271	85	67	152	146.47	1.04	32.5	44	-	467	10.95
076	Agassiz - Harrison	61	9	8	17	26.35	0.65	20.2	6	-	84	9.27
077	Summerland	40	9	11	20	21.64	0.92	29.0	9	-	69	6.02
078	Enderby	47	15	10	25	23.21	1.08	33.8	2	-	74	9.63
080	Kitimat	45	18	14	32	26.35	1.21	38.1	7	-	84	8.21
081	Fort Nelson	55	13	16	29	28.23	1.03	32.2	6	-	90	14.24
083	Central Coast	17	1	2	3	6.59	0.46	14.3	1	-	21	14.11
084	Vancouver Island West	14	2	2	4	6.27	0.64	20.0	2	-	20	8.53
085	Vancouver Island North	95	13	21	34	44.85	0.76	23.8	14	-	143	11.62
087	Stikine	4	1	1	2	1.88	1.06	33.3	-	-	6	6.09
088	Terrace	169	24	24	48	71.51	0.67	21.1	11	-	228	11.10
092	Nisga'a	29	3	6	9	12.86	0.70	22.0	3	-	41	20.94
094	Telegraph Creek	9	2	-	2	3.45	0.58	18.2	-	-	11	15.51
161	Vancouver - City Centre	528	297	73	370	334.35	1.11	34.7	168	-	1,066	8.90
162	Vancouver - Dwtm Eastside	312	105	29	134	163.41	0.82	25.7	75	-	521	7.46
163	Vancouver - North East	617	205	100	305	332.15	0.92	28.8	137	-	1,059	10.05
164	Vancouver - Westside	610	216	133	349	342.82	1.02	31.9	134	-	1,093	7.99
165	Vancouver - Midtown	557	185	97	282	299.53	0.94	29.5	116	-	955	10.38
166	Vancouver - South	631	251	145	396	373.87	1.06	33.2	165	-	1,192	8.80
201	Surrey	2,751	1,030	729	1,759	1,633.16	1.08	33.8	697	-	5,207	13.18
202	South Surrey/White Rock	362	132	87	219	200.11	1.09	34.3	57	-	638	7.36
PROVINCIAL TOTAL		25,501	8,416	5,280	13,696	13,696.00	1.00	31.4	4,470	-	43,667	9.64

Notes for this table follow the map.

FIGURE 30
**CESAREAN DELIVERIES OF LIVE BORN INFANTS
 BY LOCAL HEALTH AREA**
 BRITISH COLUMBIA, 2010



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 in Canada but worldwide. It is also an important predictor of subsequent health and well being, as well as disability and death, among newborn infants. In BC, a baby is weighed (in grams) immediately after birth, and that weight is used as one of the diagnostic indicators of fetal growth.

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

Babies born at term (37 to 41 weeks) and between 2,500 and 4,499 grams have been shown to have the most favourable prospects for good health. Table 13 indicates that 38,587 births or 88.4 percent of all live births in 2010 were in that category. There were 3,255 pre-term births (less than 37 weeks), which accounted for 7.5 percent of all live births.

Table 14 shows the number of live births to residents of BC in 2010 according to maternal age group and infant birth weight category. By far, most of the babies in each age group had healthy weights (from 2,500 to 4,499 grams).

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

Table 15 displays the number and percent of LBW babies by gender according to the mother's age group. Female babies have a higher rate of LBW (57.39 per 1,000 female live births) than males (51.81 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 2010 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 2005 to 2009 and the year 2010, stratified by the LHA of maternal residence for the whole province. As well as the incidence of such births, the 2005 to 2009 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 12 LHAs with ratios that were statistically significant. Of these, 6 were high. The 2010 data show the incidence figures broken down by three categories: gestational age of the newborn, the total number of LBW births, and the rate. In 2010, the number of LBW babies in some LHAs was quite low. Therefore, the rates should be viewed with caution.

Figure 32 shows BC LHAs displayed in five levels according to the 2005-2009 observed versus expected LBW ratio. High ratios (Quintile 5, dark red colour) mean that an LHA had quite a high ratio in the years 2005-2009. At the other extreme, the areas shown as dark grey had a relatively low ratio.

TABLE 13
LIVE BIRTHS BY BIRTH WEIGHT, GENDER, AND GESTATIONAL AGE
 BRITISH COLUMBIA, 2010

Birth Weight (in Grams)	Gender		Gestational Age (in Weeks)						Total
	Male	Female	<20	20-27	28-36	37-41	42+	N.S.	
<500	18	26	8	31	1	4	-	-	44
500-749	30	25	-	51	4	-	-	-	55
750-999	42	34	-	52	24	-	-	-	76
1,000-1,249	40	51	-	24	67	-	-	-	91
1,250-1,499	50	59	-	3	105	1	-	-	109
1,500-1,749	97	84	-	-	177	4	-	-	181
1,750-1,999	161	162	-	1	286	36	-	-	323
2,000-2,249	250	260	-	-	386	124	-	-	510
2,250-2,499	473	519	-	-	496	496	-	-	992
2,500-2,749	938	1,175	-	-	587	1,525	1	-	2,113
2,750-2,999	1,929	2,459	-	-	476	3,905	7	-	4,388
3,000-3,249	3,278	3,879	-	-	282	6,860	15	-	7,157
3,250-3,499	4,299	4,421	-	-	111	8,575	34	-	8,720
3,500-3,749	4,262	3,650	-	-	46	7,826	40	-	7,912
3,750-3,999	3,066	2,440	-	-	17	5,426	63	-	5,506
4,000-4,249	1,929	1,236	-	-	8	3,109	48	-	3,165
4,250-4,499	906	485	-	-	8	1,361	22	-	1,391
4,500-4,749	389	186	-	-	2	558	15	-	575
4,750-4,999	165	64	-	-	2	218	9	-	229
5,000-5,249	45	16	-	-	-	58	3	-	61
5,250-5,499	12	7	-	-	-	19	-	-	19
5,500+	10	3	-	-	-	13	-	-	13
N.S.	20	17	-	-	-	-	-	37	37
TOTAL	22,409	21,258	8	162	3,085	40,118	257	37	43,667

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



TABLE 14
LIVE BIRTHS BY BIRTH WEIGHT AND AGE OF MOTHER
 BRITISH COLUMBIA, 2010

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	-	-	5	14	11	9	5	-	-	44
500-749	-	-	11	17	11	12	4	-	-	55
750-999	-	2	8	24	25	13	4	-	-	76
1,000-1,249	1	2	11	24	22	22	9	-	-	91
1,250-1,499	-	4	12	36	28	24	5	-	-	109
1,500-1,749	-	5	16	52	58	44	5	1	-	181
1,750-1,999	-	8	32	79	105	74	22	3	-	323
2,000-2,249	-	14	61	128	154	110	35	8	-	510
2,250-2,499	1	31	116	248	318	205	59	14	-	992
2,500-2,749	1	66	299	549	674	402	112	10	-	2,113
2,750-2,999	2	123	546	1,257	1,467	795	182	16	-	4,388
3,000-3,249	5	225	897	1,991	2,362	1,336	328	13	-	7,157
3,250-3,499	-	270	1,173	2,480	2,885	1,571	324	17	-	8,720
3,500-3,749	1	212	1,083	2,270	2,566	1,467	303	10	-	7,912
3,750-3,999	2	172	762	1,550	1,760	1,050	202	8	-	5,506
4,000-4,249	1	98	438	862	1,018	614	128	6	-	3,165
4,250-4,499	1	34	185	402	443	272	52	2	-	1,391
4,500-4,749	-	18	73	160	191	110	22	1	-	575
4,750-4,999	-	9	26	65	74	49	6	-	-	229
5,000-5,249	-	3	7	18	21	8	3	1	-	61
5,250-5,499	-	1	-	3	11	3	1	-	-	19
5,500+	-	1	1	-	5	6	-	-	-	13
Low	2	66	272	622	732	513	148	26	-	2,381
Percent	13.3	5.1	4.7	5.1	5.1	6.3	8.2	23.6	-	5.5
Healthy	13	1,200	5,383	11,361	13,175	7,507	1,631	82	-	40,352
Percent	86.7	92.4	93.3	92.8	92.7	91.5	90.0	74.5	-	92.4
High	-	32	107	246	302	176	32	2	-	897
Percent	-	2.5	1.9	2.0	2.1	2.1	1.8	1.8	-	2.1
N.S.	-	1	5	16	8	6	1	-	-	37
TOTAL	15	1,299	5,767	12,245	14,217	8,202	1,812	110	-	43,667

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



TABLE 15
LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER AND GENDER
 BRITISH COLUMBIA, 2010

Age of Mother	Male		Female		Total		
	Number	Percent	Number	Percent	Number	Percent	Rate
< 15	2	0.2	-	-	2	0.1	133.33
15-19	34	2.9	32	2.6	66	2.8	50.81
20-24	132	11.4	140	11.5	272	11.4	47.16
25-29	296	25.5	326	26.7	622	26.1	50.80
30-34	345	29.7	387	31.7	732	30.7	51.49
35-39	270	23.3	243	19.9	513	21.5	62.55
40-44	73	6.3	75	6.1	148	6.2	81.68
45 +	9	0.8	17	1.4	26	1.1	236.36
N.S.	-	-	-	-	-	-	-
TOTAL	1,161	100.0	1,220	100.0	2,381	100.0	54.53

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, 2010

Rate per 1,000 Live Births

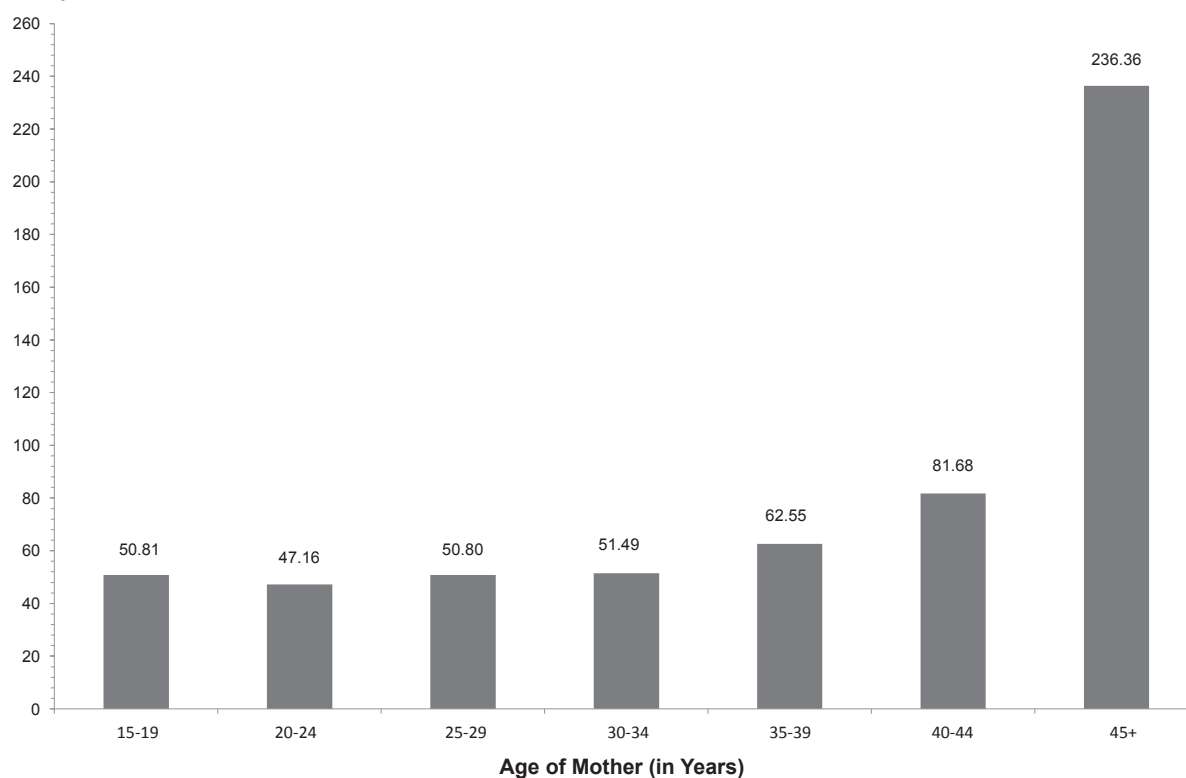


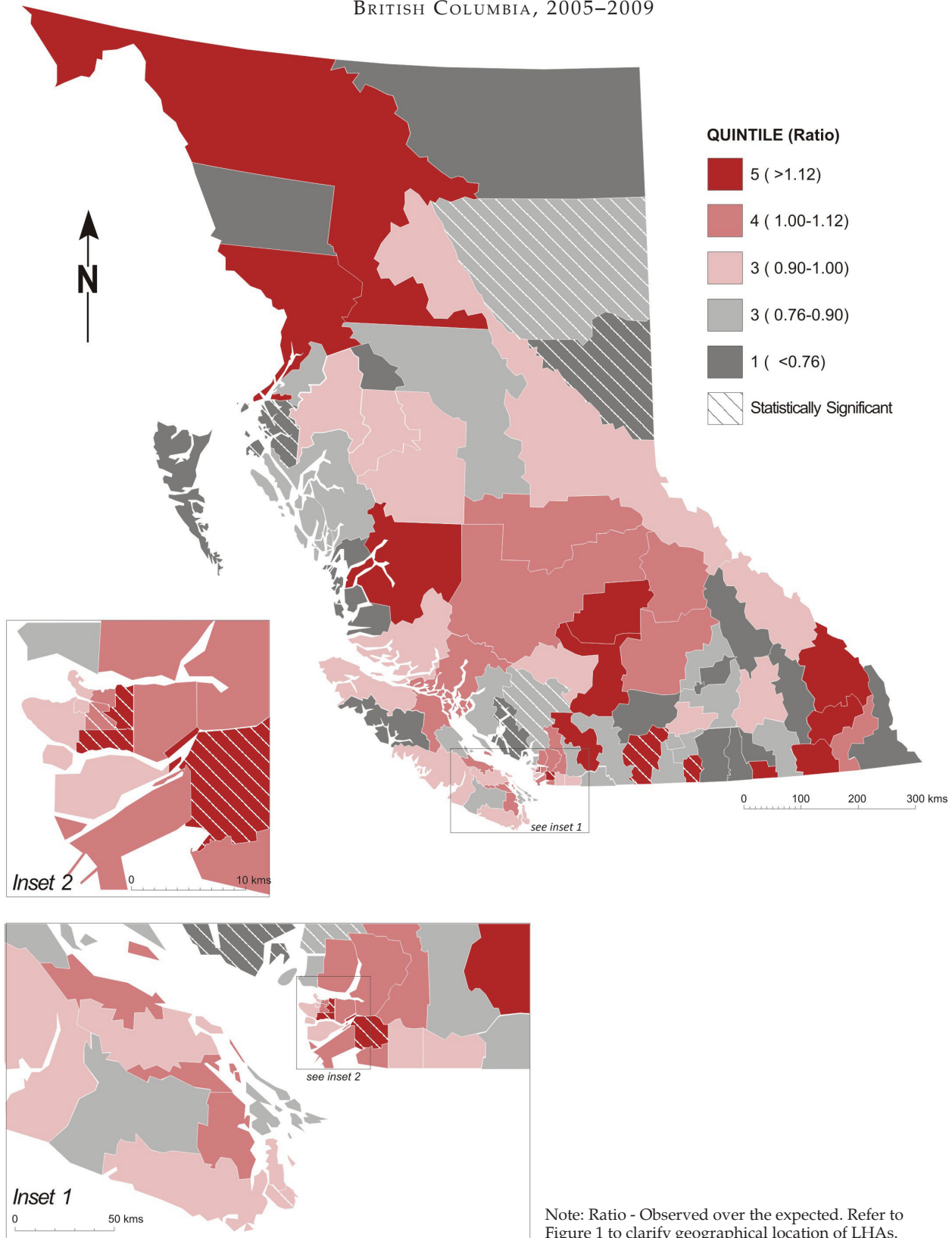
Table 16

LOW BIRTH WEIGHT LIVE BIRTHS BY LOCAL HEALTH AREA AND GESTATIONAL AGE,
BRITISH COLUMBIA, 2005-2009 AND 2010

50	Local Health Area	2005-2009				2010					
		Low Birth Weight Live Births				Gestational Age (in Weeks)				Total	Rate
		Observed	Ratio	(p)	Rate	<37	37-41	42+	N.S.		
001	Fernie	28	0.70		39.27	6	3	-	-	9	63.83
002	Cranbrook	71	1.04		58.01	17	1	-	-	18	64.52
003	Kimberley	26	1.26		70.46	3	1	-	-	4	45.45
004	Windermere	28	1.16		64.52	6	3	-	-	9	100.00
005	Creston	41	1.23		68.79	1	1	-	-	2	19.61
006	Kootenay Lake	4	0.52		28.99	2	-	-	-	2	58.82
007	Nelson	57	0.87		48.68	7	3	-	-	10	47.39
009	Castlegar	17	0.67		37.44	9	3	-	-	12	101.69
010	Arrow Lakes	8	0.92		51.28	1	-	-	-	1	34.48
011	Trail	50	1.12		62.66	7	2	-	-	9	52.33
012	Grand Forks	13	0.76		42.21	2	1	-	-	3	66.67
013	Kettle Valley	2	0.32		18.02	2	1	-	-	3	136.36
014	Southern Okanagan	52	1.48	*	82.54	3	-	-	-	3	25.21
015	Penticton	74	0.81		45.32	11	8	-	-	19	59.56
016	Keremeos	9	0.86		48.13	1	1	-	-	2	52.63
017	Princeton	14	1.87	*	104.48	7	3	-	-	10	222.22
018	Golden	19	0.98		54.60	1	-	-	-	1	13.33
019	Revelstoke	16	0.75		41.99	3	1	-	-	4	43.48
020	Salmon Arm	65	0.88		49.32	6	2	-	-	8	29.74
021	Armstrong - Spallumcheen	17	0.72		40.38	5	-	-	-	5	48.54
022	Vernon	132	0.85		47.60	20	14	-	-	34	58.32
023	Central Okanagan	401	0.93		51.78	50	23	-	-	73	43.87
024	Kamloops	284	1.02		56.98	53	12	-	-	65	62.14
025	100 Mile House	32	1.12		62.62	1	-	-	-	1	11.76
026	North Thompson	13	1.03		57.52	2	2	-	-	4	105.26
027	Cariboo - Chilcotin	85	1.05		58.82	11	2	-	-	13	48.69
028	Quesnel	71	1.02		56.71	12	4	-	-	16	69.26
029	Lillooet	13	0.98		54.85	2	1	-	-	3	62.50
030	South Cariboo	23	1.35		75.16	4	3	-	-	7	102.94
031	Merritt	25	0.74		41.05	2	1	-	-	3	28.30
032	Hope	18	0.88		49.05	3	-	-	-	3	49.18
033	Chilliwack	248	0.89		49.85	32	7	-	-	39	38.46
034	Abbotsford	434	0.92		51.25	71	24	-	-	95	55.01
035	Langley	355	0.95		52.80	52	18	-	-	70	50.91
037	Delta	255	1.05		58.57	37	15	-	-	52	61.68
038	Richmond	466	1.00		55.54	54	30	-	-	84	50.79
040	New Westminster	212	1.13		62.76	29	9	-	-	38	54.76
041	Burnaby	636	1.02		56.99	76	35	-	-	111	50.41
042	Maple Ridge	266	1.02		56.68	36	12	-	-	48	49.69
043	Coquitlam	632	1.08		60.26	78	27	-	-	105	49.69
044	North Vancouver	340	1.01		56.41	39	15	-	-	54	45.72
045	West Vancouver-Bowen Island	65	0.84		46.70	10	2	-	-	12	46.33
046	Sunshine Coast	43	0.74	*	40.99	7	2	-	-	9	40.72
047	Powell River	29	0.76		42.46	7	-	-	-	7	47.62
048	Howe Sound	99	0.80	*	44.35	14	6	-	-	20	42.37
049	Bella Coola Valley	19	1.53		85.59	3	1	-	-	4	90.91
050	Queen Charlotte	9	0.72		40.18	-	-	-	-	-	-
051	Snow Country	3	1.99		111.11	-	-	-	-	-	-
052	Prince Rupert	32	0.66	*	37.04	8	3	-	-	11	51.40
053	Upper Skeena	12	0.65		36.47	2	1	-	-	3	48.39
054	Smithers	55	0.91		50.69	9	3	-	-	12	52.17
055	Burns Lake	24	0.96		53.81	2	1	-	-	3	48.39
056	Nechako	53	0.87		48.62	10	1	-	-	11	46.41
057	Prince George	301	0.98		54.51	50	14	-	-	64	59.53
059	Peace River South	65	0.73	*	40.47	10	2	-	-	12	39.09
060	Peace River North	126	0.78	*	43.51	20	5	-	-	25	41.81
061	Greater Victoria	451	0.90	*	50.28	62	26	-	-	88	48.25
062	Sooke	173	0.90		50.41	28	11	-	-	39	47.22
063	Saanich	102	0.94		52.28	24	4	-	-	28	67.80
064	Gulf Islands	22	0.90		50.00	3	1	-	-	4	39.60
065	Cowichan	156	1.05		58.65	24	3	-	-	27	51.82
066	Lake Cowichan	10	0.82		45.66	-	-	-	-	-	-
067	Ladysmith	45	1.07		59.84	4	4	-	-	8	60.15
068	Nanaimo	223	0.91		50.54	38	14	-	-	52	55.38
069	Qualicum	71	1.02		57.12	7	2	-	-	9	34.88
070	Alberni	86	0.92		51.07	19	3	-	-	22	66.07
071	Courtenay	115	0.85		47.25	5	12	-	-	17	31.25
072	Campbell River	108	1.00		55.96	14	2	-	-	16	46.24
075	Mission	112	0.88		49.19	12	5	-	-	17	36.40
076	Agassiz - Harrison	33	1.22		68.04	1	1	-	-	2	23.81
077	Summerland	16	0.78		43.60	2	2	-	-	4	57.97
078	Enderby	14	0.66		37.04	2	2	-	-	4	54.05
080	Kitimat	21	0.79		44.21	1	1	-	-	2	23.81
081	Fort Nelson	21	0.76		42.25	1	1	-	-	2	22.22
083	Central Coast	5	0.60		33.56	1	-	-	-	1	47.62
084	Vancouver Island West	4	0.63		35.40	-	-	-	-	-	-
085	Vancouver Island North	42	0.98		54.83	4	-	-	-	4	27.97
087	Stikine	3	1.74		96.77	-	-	-	-	-	-
088	Terrace	63	0.91		50.89	10	4	-	-	14	61.40
092	Nisga'a	8	0.82		45.98	1	-	-	-	1	24.39
094	Telegraph Creek	-	-		-	-	-	-	-	-	-
161	Vancouver - City Centre	241	0.92		51.53	58	15	-	-	73	68.48
162	Vancouver - Dwt'n Eastside	147	1.10		61.07	21	13	-	-	34	65.26
163	Vancouver - North East	366	1.19	*	66.24	44	16	-	-	60	56.66
164	Vancouver - Westside	294	0.92		51.41	44	19	-	-	63	57.64
165	Vancouver - Midtown	322	1.12	*	62.48	53	15	-	-	68	71.20
166	Vancouver - South	458	1.25	*	69.48	64	24	-	-	88	73.83
201	Surrey	1,589	1.17	*	65.04	231	125	-	-	356	68.37
202	South Surrey/White Rock	164	1.08		60.14	22	11	-	-	33	51.72
	PROVINCIAL TOTAL	11,974	1.00		55.77	1,716	665	-	-	2,381	54.53

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, 2005–2009



Births – Maternal Complications and Perinatal Conditions

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

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

Assisted or Surgical Delivery and Maternal Abnormalities of the Pelvic Organs were the two most frequent diagnostic categories of maternal complications in 2010 and the previous five years. The proportions of age group births that had pelvic organ abnormalities (including conditions such as cervical incompetence as well as scarring from surgeries such as previous cesarean sections) were observed more frequently in older mothers. Births complicated by Maternal Abnormality of Pelvic Organs made up 1.4 percent of births to mothers under 20 years old compared to 21.9 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. Elderly primigravida comprised 5.4 percent of all maternal complications in 2005-2009 and 5.6 percent in 2010 as shown in Table 17.

Table 18 shows the incidence of live births with maternal complications by LHA for the period 2005-2009 and for the year 2010. The observed births columns show the number of live births with complications 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 2010, there were statistically significant low ratios in 50 LHAs, whereas 39 LHAs had high ratios that were statistically significant. In the 2005-2009 period, 55 LHAs had low ratios that were statistically significant and 34 LHAs had high ratios that were statistically significant.

The map in Figure 33 shows the LHAs identified in their quintile ranks by their 2005-2009 ratios of observed births with maternal complications to expected number of births with such conditions. LHAs with the highest ratios are coloured dark red, and those with the lowest ratios are dark grey.

The conditions listed in Table 19 consist of diagnoses affecting the baby shortly before, during, or after birth. The table shows the number and percent of all perinatal conditions in each condition category for 2005-2009 and 2010. The 2010 portion of the table also shows the conditions by maternal age group. Since multiple complications can be noted for each birth, the total number of perinatal conditions at the bottom of the table may exceed the number of live births with at least one perinatal condition.

Intrauterine hypoxia and birth asphyxia accounted for most of the perinatal conditions in both time periods (42.1 percent in 2005-2009 and 43.6 percent in 2010). Conditions related to short gestation and those related to long gestation or high birth weight together accounted for 33.9 percent of the conditions in 2010 and 38.5 percent in the 2005-2009 period.

Table 20 shows the incidence of live births with perinatal conditions by the mother's LHA of residence for the period 2005-2009 and for the year 2010. In 2010, there were 20 LHAs where the observed number of perinatal conditions was significantly different from the expected number, and in 13 of these, the observed number was significantly higher.

Figure 34 map shows the LHAs identified in their quintile ranks by their 2005-2009 ratios of observed births with perinatal conditions to the expected number of births with such conditions. LHAs with the highest ratios are coloured dark red, and those with the lowest ratios are dark grey.

TABLE 17
**MATERNAL COMPLICATIONS OF PREGNANCY AND
 DELIVERY IN LIVE BIRTHS BY AGE OF MOTHER**
 BRITISH COLUMBIA, 2005–2009 AND 2010

Maternal Complications	ICD-10 Code(s)	2005–2009		2010						Total	Percent
		Total	Percent	Age of Mother (in Years)					N.S.		
Hypertension/hypertensive disorders in pregnancy	O10-O11, O13, O16	2,591	1.7	8	218	286	41	-	-	553	1.7
Edema and proteinuria without hypertension	O12	22	0.0	-	3	-	-	-	-	3	0.0
Pre-eclampsia/eclampsia	O14-O15	976	0.6	8	94	105	23	-	-	230	0.7
Hemorrhage in early pregnancy	O20	5	0.0	-	-	-	-	-	-	-	0.0
Hyperemesis gravidarum	O21	63	0.0	1	5	5	-	-	-	11	0.0
Other maternal disorders predominantly related to pregnancy	O22-O23, O25-O29	1,803	1.2	17	196	233	25	-	-	471	1.4
Diabetes in pregnancy	O24	2,412	1.6	6	164	414	67	-	-	651	2.0
Multiple gestation and related complications	O30-O31	6,509	4.2	23	401	803	135	-	-	1,362	4.2
Fetal malpresentation	O32	6,920	4.5	30	523	670	60	-	-	1,283	3.9
Disproportion	O33	418	0.3	4	39	28	2	-	-	73	0.2
Maternal abnormality of pelvic organs	O34	26,234	17.0	19	1,512	3,507	420	-	-	5,458	16.8
Disorders of amniotic fluid and membranes	O40-O42	4,316	2.8	30	381	468	53	-	-	932	2.9
Placental disorders	O43-O45, O73	2,272	1.5	17	179	265	31	-	-	492	1.5
Antepartum hemorrhage	O46	414	0.3	3	28	52	9	-	-	92	0.3
Prolonged pregnancy	O48	1,232	0.8	9	84	139	9	-	-	241	0.7
Preterm labour and delivery	O60	9,251	6.0	75	708	848	84	-	-	1,715	5.3
Abnormalities of forces of labour	O62-O63	6,667	4.3	37	639	710	47	-	-	1,433	4.4
Obstructed labour	O64-O66	11,961	7.8	86	1,164	1,282	96	-	-	2,628	8.1
Intrapartum hemorrhage	O67	-	-	-	-	-	-	-	-	-	-
Evidence of fetal distress	O68	8,950	5.8	72	894	1,069	100	-	-	2,135	6.6
Cord complications	O69	2,545	1.7	27	258	275	21	-	-	581	1.8
Obstetrical trauma	O70-O71	1,701	1.1	17	202	213	13	-	-	445	1.4
Postpartum hemorrhage	O72	2,125	1.4	29	247	244	21	-	-	541	1.7
Assisted or surgical delivery - no cause given ¹	O81-O82	30,927	20.1	158	2,622	3,315	340	-	-	6,435	19.8
Maternal and puerperal infections	O85-O86, O98, A34	347	0.2	8	48	59	4	-	-	119	0.4
Other puerperal complications	O87-O92	69	0.0	-	6	9	-	-	-	15	0.0
Maternal noninfectious diseases complicating the pregnant state	O99	2,319	1.5	12	228	277	44	-	-	561	1.7
Elderly primigravida	Z355, O355	8,345	5.4	-	-	1,560	257	-	-	1,817	5.6
Maternal drug use	O00-O08,	457	0.3	4	31	26	3	-	-	64	0.2
Other maternal complications	O350-O353, O356-O36, O47, O61, O74-O75, O95-O97	12,130	7.9	73	884	1,171	110	-	-	2,238	6.9
Total maternal complications		153,981	100.0	773	11,758	18,033	2,015	-	-	32,579	100.0
Live births with the above maternal complications	- Number	112,421		566	8,835	12,868	1,309	-	-	23,578	
	- Percent(*)	52.4		43.1	49.1	57.4	68.1			54.0	

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 2010

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 2010 list, as well as lists for several previous years can be found at <http://www.vs.gov.bc.ca/babynames/index.html>. In 2010, 672 boys' names and 750 girls' names were chosen for five or more newborns.

Baby Boys			Baby Girls	
Rank	Name	Number	Name	Number
1	Jacob	263	Olivia	296
2	Liam	263	Ella	210
3	Ethan	247	Emma	210
4	Lucas	216	Sophia	210
5	Benjamin	210	Emily	185
6	Logan	209	Ava	177
7	Mason	201	Chloe	172
8	Alexander	195	Isabella	167
9	Noah	190	Sophie	129
10	Nathan	178	Lily	128
11	William	176	Abigail	121
12	Daniel	169	Hannah	114
13	Ryan	163	Brooklyn	113
14	Matthew	162	Grace	111
15	Joshua	159	Madison	110
16	James	153	Charlotte	109
17	Owen	147	Avery	103
18	Jayden	145	Amelia	102
19	Aiden	140	Maya	101
20	Jack	137	Alexis	100
21	Samuel	136	Hailey	89
22	Evan	128	Sarah	89
23	Oliver	125	Claire	88
24	Jackson	119	Isla	85
25	Gavin	110	Zoe	83

56		2005-2009					2010				
Local Health Area		Observed Births	Ratio	(p)	Percent	Total Live Births	Observed Births	Expected Births	Ratio	(p)	Percent Live Births
001	Fernie	418	1.12	*	58.6	713	75	76.1	0.99		53.2
002	Cranbrook	517	0.81	*	42.2	1,224	110	150.6	0.73	*	39.4
003	Kimberley	162	0.84	*	43.9	369	37	47.5	0.78		42.0
004	Windermere	214	0.94		49.3	434	48	48.6	0.99		53.3
005	Creston	239	0.77	*	40.1	596	51	55.1	0.93		50.0
006	Kootenay Lake	44	0.61	*	31.9	138	15	18.4	0.82		44.1
007	Nelson	454	0.74	*	38.8	1,171	86	113.9	0.75	*	40.8
009	Castlegar	203	0.85	*	44.7	454	65	63.7	1.02		55.1
010	Arrow Lakes	71	0.87		45.5	156	11	15.7	0.70		37.9
011	Trail	408	0.98		51.1	798	83	92.9	0.89		48.3
012	Grand Forks	137	0.85		44.5	308	24	24.3	0.99		53.3
013	Kettle Valley	31	0.53	*	27.9	111	7	11.9	0.59		31.8
014	Southern Okanagan	335	1.02		53.2	630	66	64.3	1.03		55.5
015	Penticton	882	1.03		54.0	1,633	190	172.2	1.10		59.6
016	Keremeos	98	1.00		52.4	187	21	20.5	1.02		55.3
017	Princeton	61	0.87		45.5	134	24	24.3	0.99		53.3
018	Golden	195	1.07		56.0	348	50	40.5	1.23		66.7
019	Revelstoke	191	0.96		50.1	381	47	49.7	0.95		51.1
020	Salmon Arm	806	1.17	*	61.2	1,318	148	145.2	1.02		55.0
021	Armstrong - Spallumcheen	235	1.07		55.8	421	48	55.6	0.86		46.6
022	Vernon	1,533	1.06	*	55.3	2,773	321	314.8	1.02		55.1
023	Central Okanagan	4,026	0.99		52.0	7,744	843	898.5	0.94		50.7
024	Kamloops	2,566	0.98		51.5	4,984	571	564.8	1.01		54.6
025	100 Mile House	236	0.88		46.2	511	49	45.9	1.07		57.6
026	North Thompson	98	0.83		43.4	226	13	20.5	0.63		34.2
027	Cariboo - Chilcotin	739	0.98		51.1	1,445	139	144.2	0.96		52.1
028	Quesnel	635	0.97		50.7	1,252	131	124.7	1.05		56.7
029	Lillooet	123	0.99		51.9	237	28	25.9	1.08		58.3
030	South Cariboo	140	0.87		45.8	306	32	36.7	0.87		47.1
031	Merritt	271	0.85	*	44.5	609	53	57.2	0.93		50.0
032	Hope	173	0.90		47.1	367	28	32.9	0.85		45.9
033	Chilliwack	2,408	0.92	*	48.4	4,975	516	547.5	0.94		50.9
034	Abbotsford	3,966	0.89	*	46.8	8,469	889	932.5	0.95		51.5
035	Langley	3,353	0.95	*	49.9	6,723	760	742.4	1.02		55.3
037	Delta	2,337	1.03		53.7	4,354	456	455.2	1.00		54.1
038	Richmond	4,298	0.98		51.2	8,391	911	893.1	1.02		55.1
040	New Westminster	1,989	1.12	*	58.9	3,378	407	374.7	1.09		58.6
041	Burnaby	5,769	0.99		51.7	11,159	1,224	1,189.0	1.03		55.6
042	Maple Ridge	2,526	1.03		53.8	4,693	533	521.6	1.02		55.2
043	Coquitlam	6,132	1.12	*	58.5	10,488	1,228	1,140.9	1.08	*	58.1
044	North Vancouver	3,237	1.03		53.7	6,027	620	637.7	0.97		52.5
045	West Vancouver-Bowen Island	736	1.01		52.9	1,392	148	139.8	1.06		57.1
046	Sunshine Coast	558	1.02		53.2	1,049	125	119.3	1.05		56.6
047	Powell River	334	0.93		48.9	683	83	79.4	1.05		56.5
048	Howe Sound	1,276	1.09	*	57.2	2,232	274	254.9	1.08		58.1
049	Bella Coola Valley	108	0.93		48.6	222	24	23.8	1.01		54.5
050	Queen Charlotte	125	1.07		55.8	224	21	21.6	0.97		52.5
051	Snow Country	15	1.06		55.6	27	-	-	-		-
052	Prince Rupert	435	0.96		50.3	864	104	115.5	0.90		48.6
053	Upper Skeena	197	1.14		59.9	329	42	33.5	1.25		67.7
054	Smithers	515	0.91	*	47.5	1,085	102	124.2	0.82	*	44.3
055	Burns Lake	203	0.87	*	45.5	446	28	33.5	0.84		45.2
056	Nechako	540	0.95		49.5	1,090	131	128.0	1.02		55.3
057	Prince George	2,608	0.90	*	47.2	5,522	512	580.4	0.88	*	47.6
059	Peace River South	660	0.78	*	41.1	1,606	135	165.8	0.81	*	44.0
060	Peace River North	1,201	0.79	*	41.5	2,896	238	322.9	0.74	*	39.8
061	Greater Victoria	4,814	1.02		53.7	8,970	957	984.9	0.97		52.5
062	Sooke	1,873	1.04		54.6	3,432	461	446.0	1.03		55.8
063	Saanich	960	0.94		49.2	1,951	206	223.0	0.92		49.9
064	Gulf Islands	173	0.75	*	39.3	440	46	54.5	0.84		45.5
065	Cowichan	1,213	0.87	*	45.6	2,660	233	281.3	0.83	*	44.7
066	Lake Cowichan	109	0.95		49.8	219	12	16.7	0.72		38.7
067	Ladysmith	391	0.99		52.0	752	63	71.8	0.88		47.4
068	Nanaimo	2,667	1.15	*	60.4	4,412	552	507.0	1.09	*	58.8
069	Qualicum	707	1.09	*	56.9	1,243	142	139.3	1.02		55.0
070	Alberni	1,043	1.18	*	61.9	1,684	189	179.8	1.05		56.8
071	Courtenay	1,200	0.94	*	49.3	2,434	286	293.7	0.97		52.6
072	Campbell River	1,160	1.15	*	60.1	1,930	206	186.8	1.10		59.5
075	Mission	1,104	0.93	*	48.5	2,277	244	252.2	0.97		52.2
076	Agassiz - Harrison	240	0.95		49.5	485	32	45.4	0.71	*	38.1
077	Summerland	209	1.09		56.9	367	41	37.3	1.10		59.4
078	Enderby	198	1.00		52.4	378	35	40.0	0.88		47.3
080	Kitimat	245	0.99		51.6	475	42	45.4	0.93		50.0
081	Fort Nelson	242	0.93		48.7	497	41	48.6	0.84		45.6
083	Central Coast	77	0.99		51.7	149	9	11.3	0.79		42.9
084	Vancouver Island West	69	1.17		61.1	113	11	10.8	1.02		55.0
085	Vancouver Island North	377	0.94		49.2	766	67	77.2	0.87		46.9
087	Stikine	20	1.23		64.5	31	3	3.2	0.93		50.0
088	Terrace	571	0.88	*	46.1	1,238	107	123.1	0.87		46.9
092	Nisga'a	87	0.95		50.0	174	21	22.1	0.95		51.2
094	Telegraph Creek	19	0.74		38.8	49	3	5.9	0.51		27.3
161	Vancouver - City Centre	2,796	1.14	*	59.8	4,677	687	575.6	1.19	*	64.4
162	Vancouver - Dwtm Eastside	1,248	0.99		51.8	2,407	287	281.3	1.02		55.1
163	Vancouver - North East	2,892	1.00		52.3	5,525	572	571.8	1.00		54.0
164	Vancouver - Westside	3,125	1.04	*	54.6	5,719	604	590.2	1.02		55.3
165	Vancouver - Midtown	2,781	1.03		54.0	5,154	537	515.7	1.04		56.2
166	Vancouver - South	3,430	0.99		52.0	6,592	666	643.6	1.03		55.9
201	Surrey	13,156	1.03	*	53.8	24,432	2,948	2,811.5	1.05	*	56.6
202	South Surrey/White Rock	1,436	1.01		52.7	2,727	339	344.5	0.98		53.1
PROVINCIAL TOTAL		112,421	1.00		52.4	214,703	23,578	23,578.0	1.00		54.0

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, 2005–2009

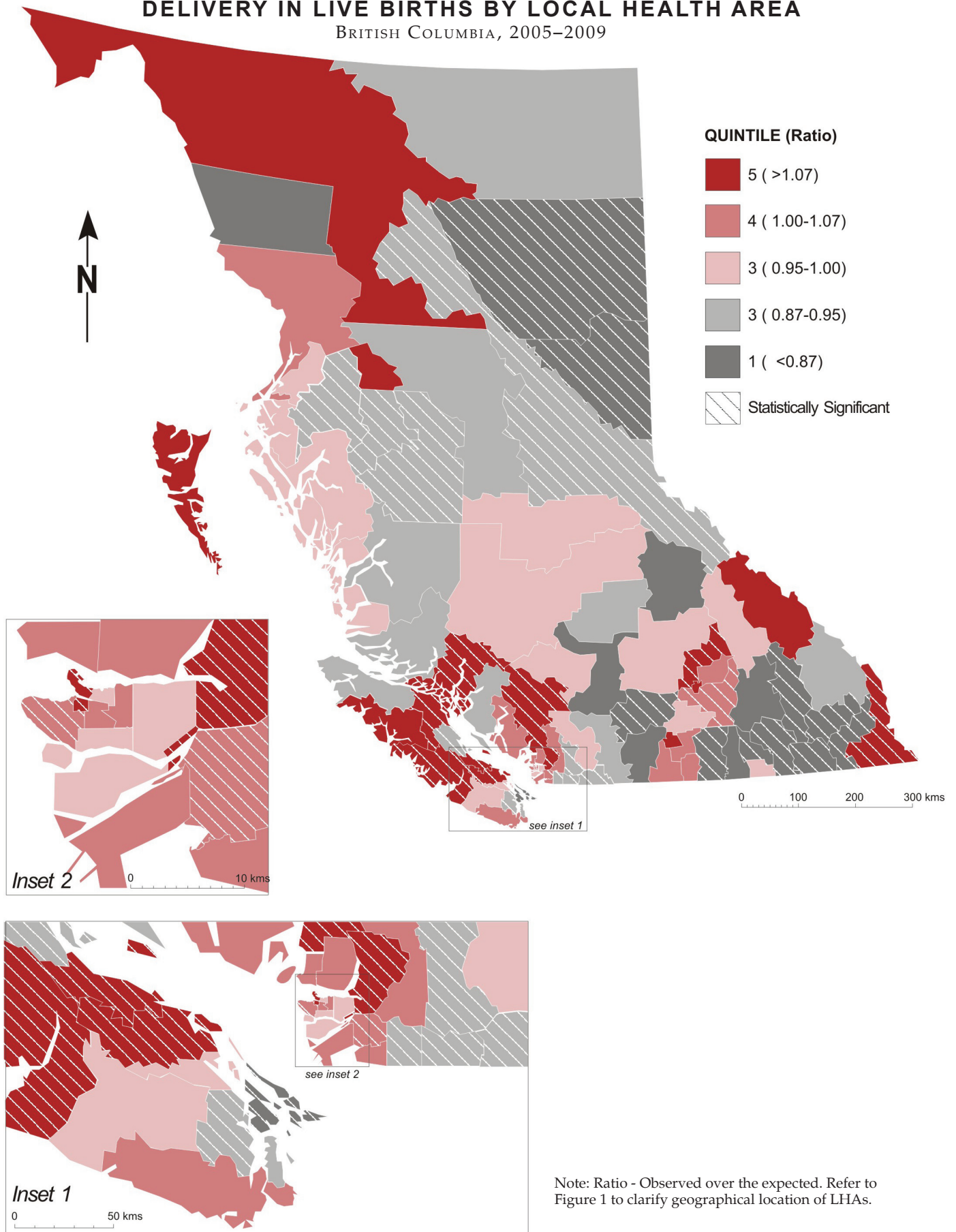


TABLE 19
PERINATAL CONDITIONS IN LIVE BIRTHS BY AGE OF MOTHER
 BRITISH COLUMBIA, 2005–2009 AND 2010

Perinatal Conditions	ICD-10 Code	2005–2009		2010						
				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	57	0.1	-	34	34	9	-	77	0.4
Complications of pregnancy, labour and delivery	P01, P03	11,979	12.8	69	1,031	1,500	202	-	2,802	14.5
Fetus/newborn affected by complications of placenta, cord and membranes	P02	2,888	3.1	31	347	427	45	-	850	4.4
Fetus affected by noxious influences transmitted via placenta (or breast milk)	P04	55	0.1	2	18	10	3	-	33	0.2
Slow fetal growth and malnutrition	P05	1,781	1.9	10	125	139	12	-	286	1.5
Perinatal disorders related to short gestation	P072, P073	15,722	16.8	105	1,199	1,610	202	-	3,116	16.1
Disorders related to long gestation or high birth weight	P08	20,325	21.7	102	1,386	1,826	138	-	3,452	17.8
Perinatal birth trauma	P10-P15	314	0.3	6	36	36	-	-	78	0.4
Intrauterine hypoxia and birth asphyxia	P20-P21	39,421	42.1	296	3,740	4,053	357	-	8,446	43.6
Respiratory conditions of fetus and newborn	P22-P28	480	0.5	4	40	42	5	-	91	0.5
Cardiovascular disorders originating in the perinatal period	P29	-	-	-	-	-	-	-	-	-
Infections specific to the perinatal period	P35-P39	23	0.0	-	1	3	-	-	4	0.0
Fetal and neonatal hemorrhage	P50-P52, P54	86	0.1	1	5	5	1	-	12	0.1
Perinatal jaundice/other hematological disorders	P53, P55-P61	49	0.1	-	4	6	-	-	10	0.1
Perinatal endocrine and metabolic disorders	P70-P74	37	0.0	1	3	2	-	-	6	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	152	0.2	1	17	18	1	-	37	0.2
Other disorders originating in the perinatal period	P90-P96	297	0.3	4	33	28	8	-	73	0.4
All Perinatal Conditions		93,670	100.0	632	8,019	9,739	983	-	19,373	100.0
Live births with the above perinatal conditions	- Number	72,581		488	6,202	7,486	719	-	14,895	
	- Percent(*)	33.8		37.1	34.4	33.4	37.4		34.1	

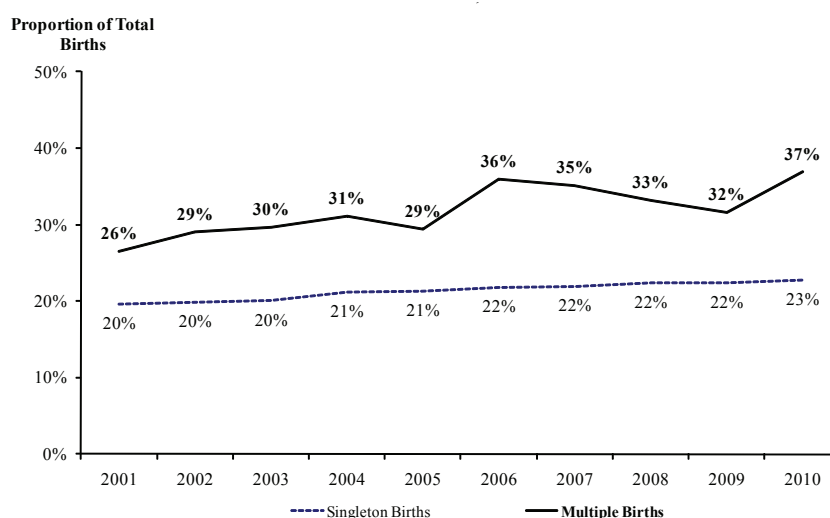
Note: Percent based upon perinatal conditions. Percent (*) based upon live births for the maternal age group. Total percentage may not add up to 100 due to rounding. N.S. - Not stated. Non-residents are excluded.

Vital Statistics Information Box

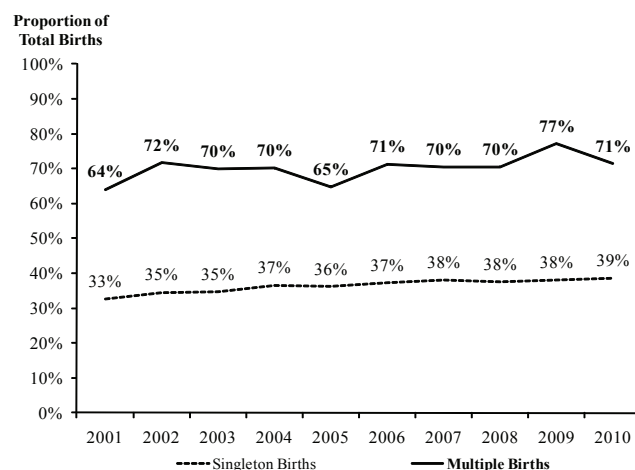
BIRTH AND OLDER MOTHERS IN BRITISH COLUMBIA, 2001 - 2010

Older mothers, those aged 35 and over, have increased their share of the total births to women in British Columbia. Since 2001, the share of multiple births attributable to older mothers has increased by 39.4 percent. Most of these births are via cesarean section; however, the proportion of these births considered to be Low Birth Weight has remained relatively stable.

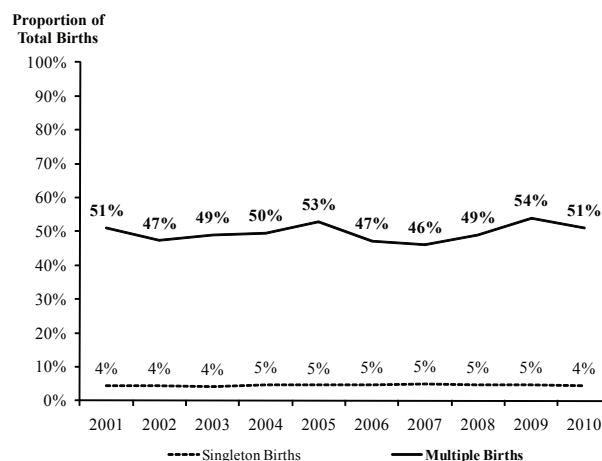
PROPORTION OF SINGLETON AND MULTIPLE BIRTHS
TO MOTHERS AGED 35 AND OLDER
BRITISH COLUMBIA, 2001 - 2010



PROPORTION OF SINGLETON AND MULTIPLE BIRTHS
TO MOTHERS AGED 35 AND OLDER BIRTHED
VIA CESAREAN SECTION
BRITISH COLUMBIA, 2001 - 2010



PROPORTION OF SINGLETON AND MULTIPLE BIRTHS
TO MOTHERS AGED 35 AND OLDER WITH
LOW BIRTH WEIGHT (<2500 GRAMS)
BRITISH COLUMBIA, 2001 - 2010



PERINATAL CONDITIONS IN LIVE BIRTHS BY LOCAL HEALTH AREA,
BRITISH COLUMBIA, 2005–2009 AND 2010

Local Health Area	2005–2009					2010					
	Observed				Total	Observed	Expected				Total
	Births	Ratio	(p)	Percent	Live Births	Births	Births	Ratio	(p)	Percent	Live Births
001 Fernie	261	1.08		36.6	713	47	48.1	0.98		33.3	141
002 Cranbrook	424	1.02		34.6	1,224	88	95.2	0.92		31.5	279
003 Kimberley	147	1.18	*	39.8	369	28	30.0	0.93		31.8	88
004 Windermere	157	1.07		36.2	434	35	30.7	1.14		38.9	90
005 Creston	209	1.04		35.1	596	25	34.8	0.72		24.5	102
006 Kootenay Lake	38	0.81		27.5	138	6	11.6	0.52		17.6	34
007 Nelson	383	0.97		32.7	1,171	70	72.0	0.97		33.2	211
009 Castlegar	165	1.08		36.3	454	55	40.3	1.37	*	46.6	118
010 Arrow Lakes	60	1.14		38.5	156	8	9.9	0.81		27.6	29
011 Trail	308	1.14	*	38.6	798	65	58.7	1.11		37.8	172
012 Grand Forks	98	0.94		31.8	308	13	15.3	0.85		28.9	45
013 Kettle Valley	24	0.64	*	21.6	111	8	7.5	1.07		36.4	22
014 Southern Okanagan	195	0.92		31.0	630	48	40.6	1.18		40.3	119
015 Penticton	551	1.00		33.7	1,633	133	108.8	1.22	*	41.7	319
016 Keremeos	64	1.01		34.2	187	14	13.0	1.08		36.8	38
017 Princeton	49	1.08		36.6	134	23	15.3	1.50		51.1	45
018 Golden	138	1.17		39.7	348	30	25.6	1.17		40.0	75
019 Revelstoke	178	1.38	*	46.7	381	40	31.4	1.27		43.5	92
020 Salmon Arm	525	1.18	*	39.8	1,318	110	91.8	1.20		40.9	269
021 Armstrong - Spallumcheen	146	1.03		34.7	421	46	35.1	1.31		44.7	103
022 Vernon	989	1.06		35.7	2,773	211	198.9	1.06		36.2	583
023 Central Okanagan	2,709	1.03		35.0	7,744	625	567.6	1.10	*	37.6	1,664
024 Kamloops	1,756	1.04		35.2	4,984	403	356.8	1.13	*	38.5	1,046
025 100 Mile House	211	1.22	*	41.3	511	34	29.0	1.17		40.0	85
026 North Thompson	79	1.03		35.0	226	16	13.0	1.23		42.1	38
027 Cariboo - Chilcotin	675	1.38	*	46.7	1,445	116	91.1	1.27	*	43.4	267
028 Quesnel	499	1.18	*	39.9	1,252	95	78.8	1.21		41.1	231
029 Lillooet	91	1.14		38.4	237	26	16.4	1.59	*	54.2	48
030 South Cariboo	104	1.01		34.0	306	28	23.2	1.21		41.2	68
031 Merritt	218	1.06		35.8	609	44	36.2	1.22		41.5	106
032 Hope	137	1.10		37.3	367	26	20.8	1.25		42.6	61
033 Chilliwack	2,041	1.21	*	41.0	4,975	412	345.9	1.19	*	40.6	1,014
034 Abbotsford	2,908	1.02		34.3	8,469	607	589.1	1.03		35.1	1,727
035 Langley	2,522	1.11	*	37.5	6,723	500	469.0	1.07		36.4	1,375
037 Delta	1,343	0.91	*	30.8	4,354	263	287.6	0.91		31.2	843
038 Richmond	2,249	0.79	*	26.8	8,391	451	564.2	0.80	*	27.3	1,654
040 New Westminster	1,216	1.06	*	36.0	3,378	254	236.7	1.07		36.6	694
041 Burnaby	3,027	0.80	*	27.1	11,159	607	751.1	0.81	*	27.6	2,202
042 Maple Ridge	1,881	1.19	*	40.1	4,693	342	329.5	1.04		35.4	966
043 Coquitlam	3,732	1.05	*	35.6	10,488	751	720.8	1.04		35.5	2,113
044 North Vancouver	1,784	0.88	*	29.6	6,027	331	402.8	0.82	*	28.0	1,181
045 West Vancouver-Bowen Island	390	0.83	*	28.0	1,392	77	88.3	0.87		29.7	259
046 Sunshine Coast	396	1.12	*	37.8	1,049	81	75.4	1.07		36.7	221
047 Powell River	259	1.12		37.9	683	55	50.1	1.10		37.4	147
048 Howe Sound	722	0.96		32.3	2,232	170	161.0	1.06		36.0	472
049 Bella Coola Valley	105	1.40	*	47.3	222	22	15.0	1.47		50.0	44
050 Queen Charlotte	88	1.16		39.3	224	16	13.6	1.17		40.0	40
051 Snow Country	10	1.10		37.0	27	-	-	-		-	-
052 Prince Rupert	343	1.17	*	39.7	864	84	73.0	1.15		39.3	214
053 Upper Skeena	153	1.38	*	46.5	329	32	21.1	1.51	*	51.6	62
054 Smithers	418	1.14	*	38.5	1,085	77	78.5	0.98		33.5	230
055 Burns Lake	149	0.99		33.4	446	22	21.1	1.04		35.5	62
056 Nechako	464	1.26	*	42.6	1,090	97	80.8	1.20		40.9	237
057 Prince George	2,300	1.23	*	41.7	5,522	440	366.7	1.20	*	40.9	1,075
059 Peace River South	649	1.20	*	40.4	1,606	105	104.7	1.00		34.2	307
060 Peace River North	874	0.89	*	30.2	2,896	210	204.0	1.03		35.1	598
061 Greater Victoria	3,138	1.03		35.0	8,970	632	622.2	1.02		34.6	1,824
062 Sooke	1,299	1.12	*	37.8	3,432	286	281.8	1.02		34.6	826
063 Saanich	708	1.07		36.3	1,951	150	140.9	1.06		36.3	413
064 Gulf Islands	147	0.99		33.4	440	35	34.5	1.02		34.7	101
065 Cowichan	993	1.10	*	37.3	2,660	212	177.7	1.19	*	40.7	521
066 Lake Cowichan	80	1.08		36.5	219	10	10.6	0.95		32.3	31
067 Ladysmith	283	1.11		37.6	752	58	45.4	1.28		43.6	133
068 Nanaimo	1,884	1.26	*	42.7	4,412	425	320.3	1.33	*	45.3	939
069 Qualicum	495	1.18	*	39.8	1,243	107	88.0	1.22	*	41.5	258
070 Alberni	677	1.19	*	40.2	1,684	130	113.6	1.14		39.0	333
071 Courtenay	861	1.05		35.4	2,434	199	185.6	1.07		36.6	544
072 Campbell River	792	1.21	*	41.0	1,930	139	118.0	1.18		40.2	346
075 Mission	816	1.06		35.8	2,277	160	159.3	1.00		34.3	467
076 Agassiz - Harrison	210	1.28	*	43.3	485	34	28.7	1.19		40.5	84
077 Summerland	131	1.06		35.7	367	32	23.5	1.36		46.4	69
078 Enderby	142	1.11		37.6	378	27	25.2	1.07		36.5	74
080 Kitimat	180	1.12		37.9	475	30	28.7	1.05		35.7	84
081 Fort Nelson	156	0.93		31.4	497	26	30.7	0.85		28.9	90
083 Central Coast	71	1.41	*	47.7	149	9	7.2	1.26		42.9	21
084 Vancouver Island West	50	1.31		44.2	113	7	6.8	1.03		35.0	20
085 Vancouver Island North	322	1.24	*	42.0	766	54	48.8	1.11		37.8	143
087 Stikine	13	1.24	*	41.9	31	3	2.0	1.47		50.0	6
088 Terrace	495	1.18	*	40.0	1,238	97	77.8	1.25	*	42.5	228
092 Nisga'a	82	1.39	*	47.1	174	16	14.0	1.14		39.0	41
094 Telegraph Creek	17	1.03		34.7	49	4	3.8	1.07		36.4	11
161 Vancouver - City Centre	1,484	0.94	*	31.7	4,677	368	363.6	1.01		34.5	1,066
162 Vancouver - Dvtn Eastside	819	1.01		34.0	2,407	159	177.7	0.89		30.5	521
163 Vancouver - North East	1,478	0.79	*	26.8	5,525	286	361.2	0.79	*	27.0	1,059
164 Vancouver - Westside	1,649	0.85	*	28.8	5,719	327	372.8	0.88	*	29.9	1,093
165 Vancouver - Midtown	1,548	0.89	*	30.0	5,154	311	325.8	0.95		32.6	955
66 Vancouver - South	1,788	0.80	*	27.1	6,592	340	406.6	0.84	*	28.5	1,192
201 Surrey	7,192	0.87	*	29.4	24,432	1,489	1,776.1	0.84	*	28.6	5,207
202 South Surrey/White Rock	956	1.04		35.1	2,727	210	217.6	0.96		32.9	638
PROVINCIAL TOTAL	72,581	1.00		33.8	214,703	14,895	14,895.0	1.00		34.1	43,667

Note: *Statistical testing indicates that observed number of births with perinatal conditions 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 excludes non-residents.

FIGURE 34
**PERINATAL CONDITIONS IN LIVE BIRTHS
 BY LOCAL HEALTH AREA**
 BRITISH COLUMBIA, 2005–2009

