

# Healthy Moms and Infants

## Selected Indicators

Upper Skeena  
Local Health Area 053  
and  
Communities

Revised April 2013



**northern health**  
*the northern way of caring*

## Selected Indicators <sup>1</sup>

During the 2006/07 - 2010/11 period (5 years) 310 mothers from the Upper Skeena Local Health Area (LHA) delivered 311 newborns. Here is a summary.

Mothers	Upper Skeena		BC Overall	
	Number	%	Number	%
Total Number of Mothers	310	100	216,439	100
Cesarean Section Deliveries	75	24.19	65,918	30.46
Births to women ages $\leq$ 19 yrs (teen moms)	30	9.68	5,872	2.71
Births to women ages $>$ 35 (elderly gravida)	32	10.32	38,540	17.81
Mothers who smoked during pregnancy	34	10.97	20,752	9.59

Newborns	Upper Skeena		BC Overall	
	Number	%	Number	%
Total Number of Newborns	311	100	219,909	100
Total Number of Live Births	310	99.68	218,802	99.50
Preterm Births	25	8.04	21,405	9.73
Low Birth-weight ( $<$ 2500 grams )	12	3.86	12,783	5.81
Small for Gestational Age (SGA)	9	2.89	15,149	6.89
High Birth-weight ( $>$ 4000 grams)	80	25.72	27,042	12.30
Large for Gestational Age (LGA)	97	31.19	27,995	12.73

**Low Birth-weight** Low birth weight is now the principal risk factor associated with infant mortality, particularly between the ages of 28 to 365 days. Maternal factors that are associated with low birth weight include smoking, poor diet during pregnancy, low weight prior to pregnancy, poverty and pregnancy in very young or very old mothers.<sup>2</sup>

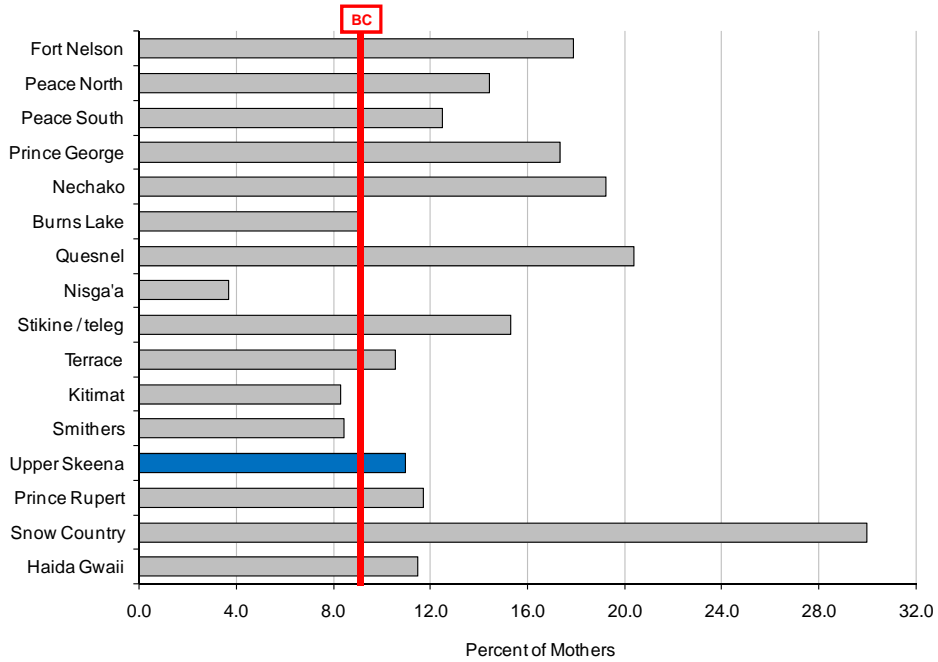
**High Birth-weight** Births involving high birth-weight babies tend to have higher rates of complications due to diabetes, Cephalo-Pelvic Disproportion (CPD) and / or obstructed labor. Shoulder dystocia and asphyxia in the infant are delivery complications that are closely associated with delivering high birth weight babies.<sup>3</sup> In BC, dystocia / CPD are some of the most common indications for Cesarean-section deliveries.<sup>4</sup>

**Births to Teen Moms** This indicator can provide indirect information about the effectiveness of sexuality education, contraceptive and other services for this age group, as it is assumed that most pregnancies among teens are unintended.<sup>5</sup> Northern BC mothers have some of the highest teen pregnancy and teen birth rates in BC.<sup>6, 7</sup>

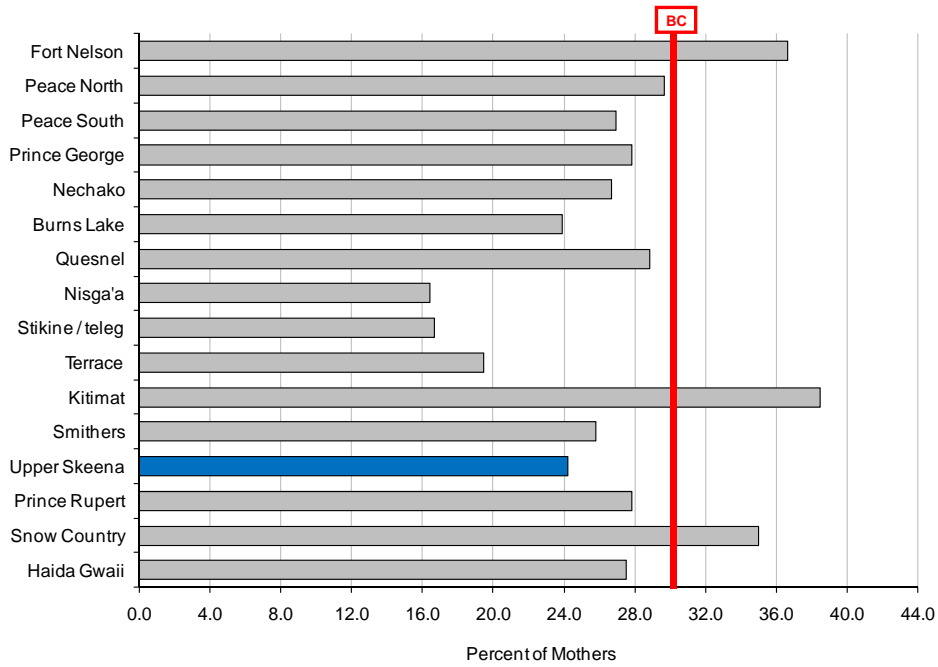
**Mothers Who Smoke** Exposure to tobacco smoke during pregnancy is associated with adverse outcomes including increased risk of preterm birth, stillbirth, low birth-weight, and placental abruption.<sup>8</sup> Mothers from Northern BC have the highest “smoking during pregnancy” rates in BC.<sup>9</sup> Also, the proportion of mothers identified as smokers and, for whom drugs were a recognized risk factor, is highest amongst northern BC mothers.<sup>10</sup>

# Selected Indicators <sup>11</sup>

Mothers who Smoked during Pregnancy by Local Health Area: 2006 - 2011



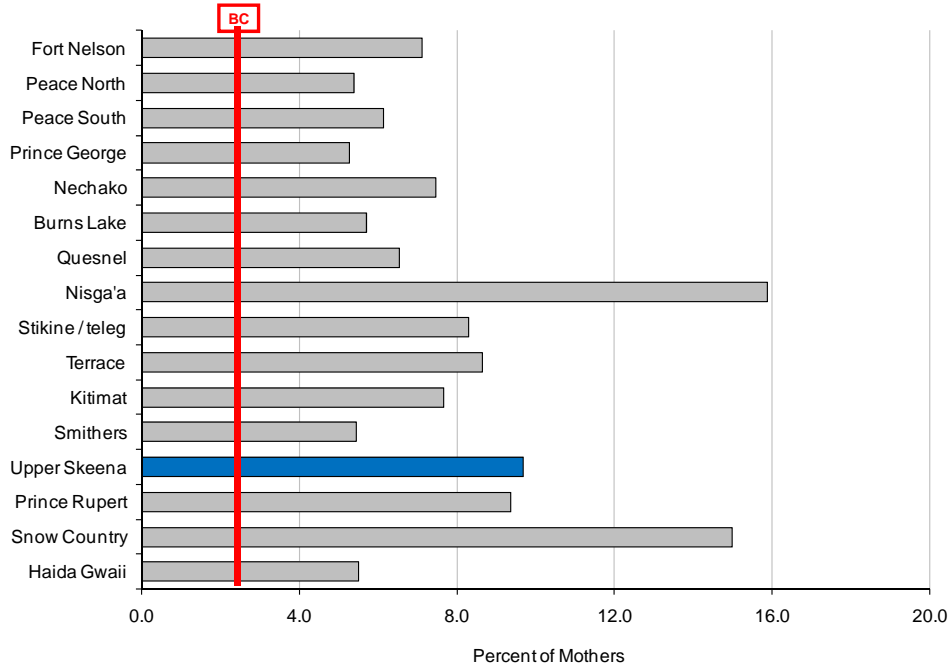
Cesarean Section Deliveries by Local Health Area: 2006 - 2011



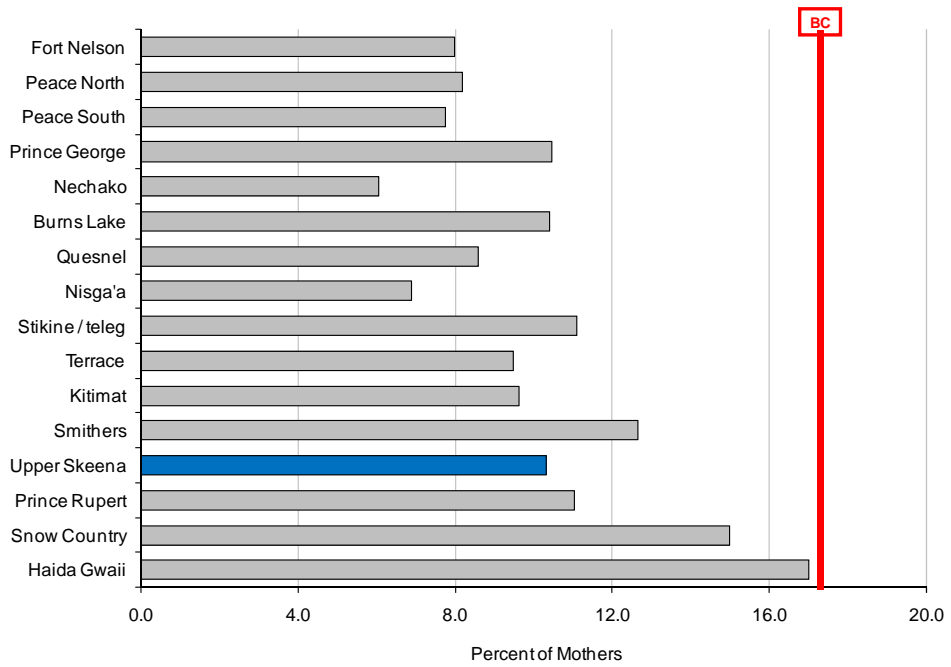
These figures are based upon mom's usual place (Local Health Area) of residence, not the facility location where delivery occurred.

## Selected Indicators

Teen Moms (births to mothers  $\leq 19$  yrs) by Local Health Area: 2006 - 2011



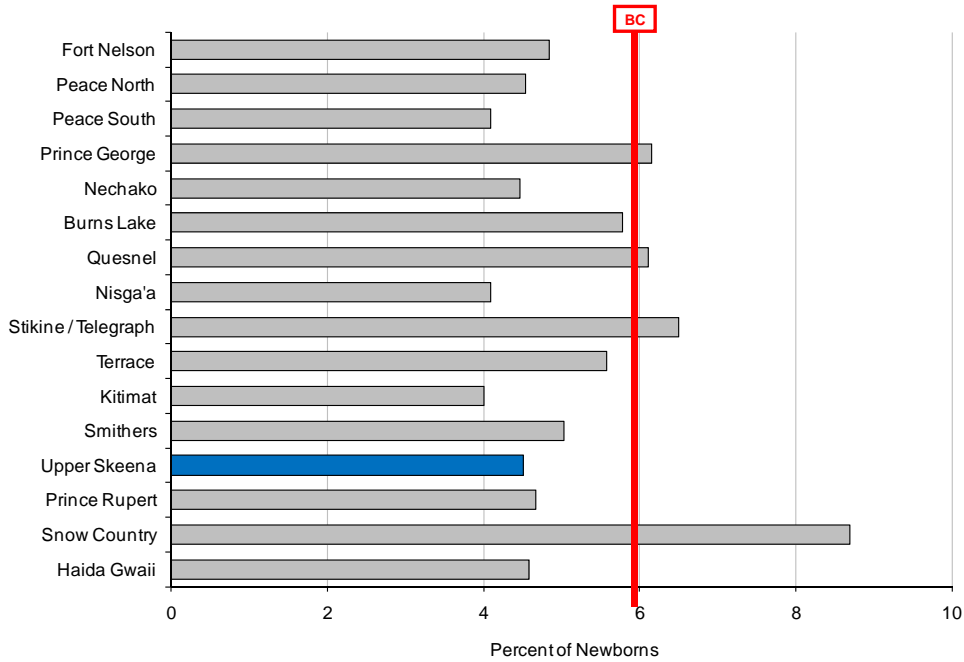
Older Moms (births to mothers  $\geq 35$  yrs) by Local Health Area: 2006 - 2011



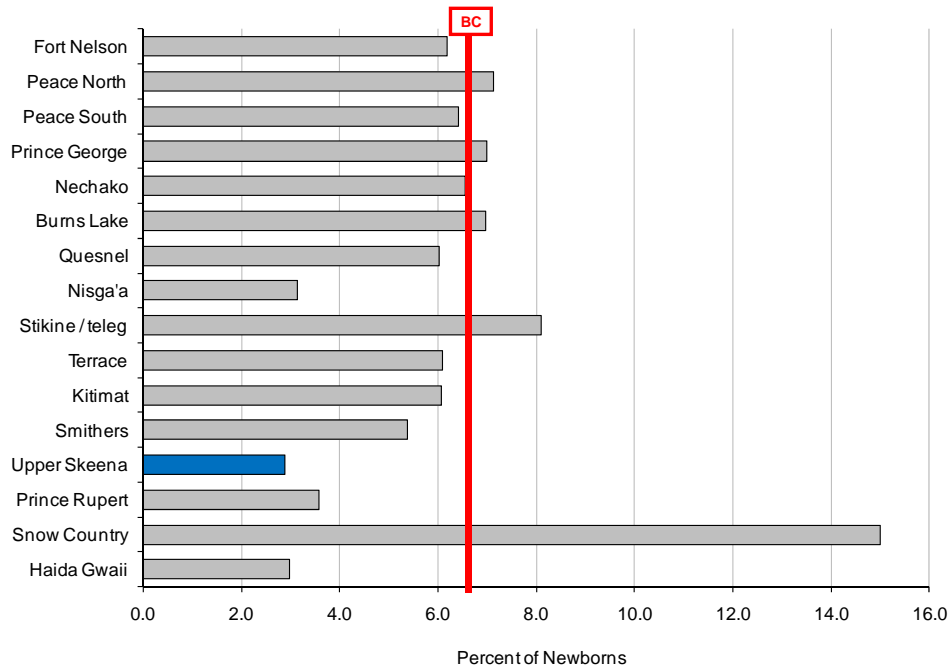
These figures are based upon mom's usual place (Local Health Area) of residence, not the facility location where delivery occurred.

## Selected Indicators

Low Birthweight Infants (less than 2500 grams) by Local Health Area: 2006 - 2011



Small for Gestational Age at Birth by Local Health Area: 2006 - 2011

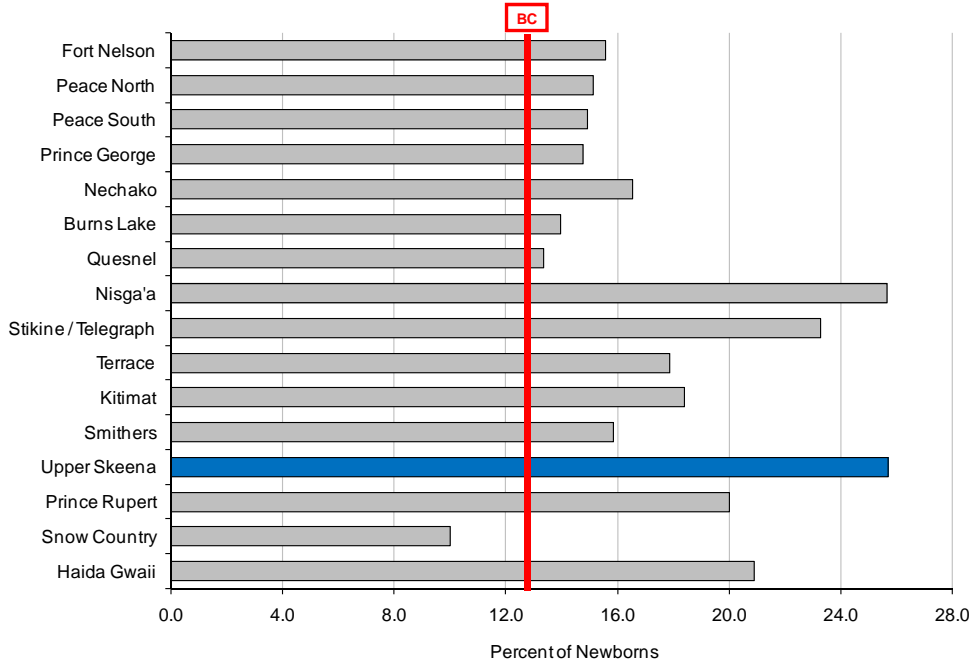


Small or Large for Gestational Age calculation is based on gender, birth number (singleton, multiple) and birth weight / gestational age charts for BC.

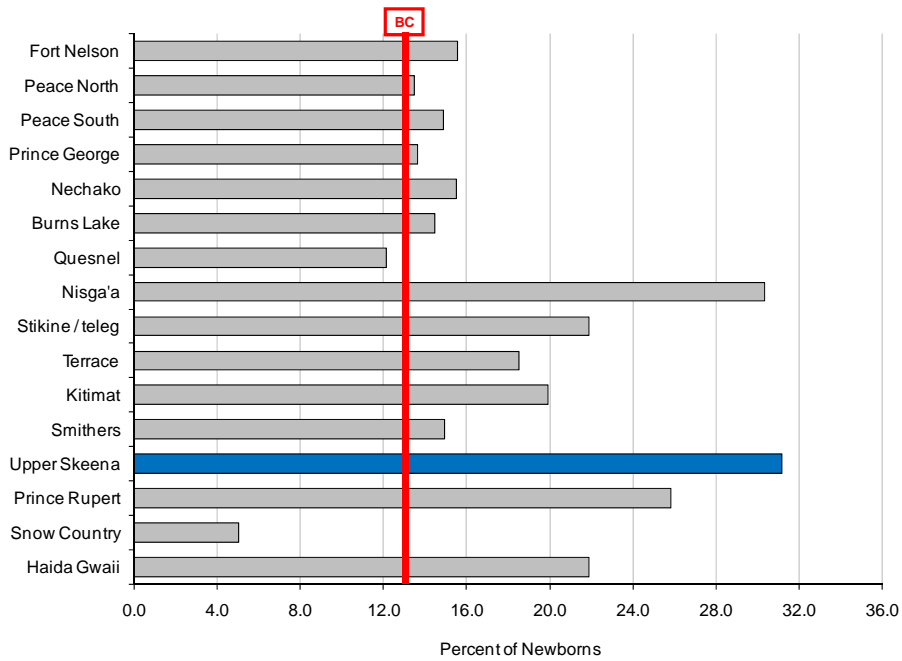
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## Selected Indicators

High Birthweight Infants (greater than 4000 grams) by Local Health Area: 2006 - 2011



Large for Gestational Age at Birth by Local Health Area: 2006 - 2011



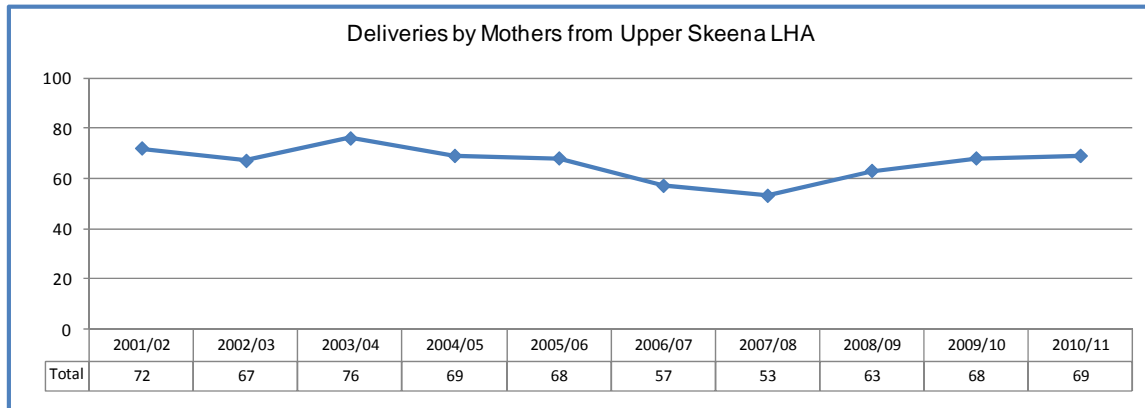
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## Delivery Trends by Community <sup>12</sup>

We use information about where mothers live and where they deliver their infants to plan and deliver maternity care services. This information can also inform other services for children and families such as immunizations for preventable diseases and the early screening programs that target vision, hearing, dental and other health concerns.

Deliveries per year by Upper Skeena LHA mothers: 2001/02 – 2010/11 <sup>13</sup>



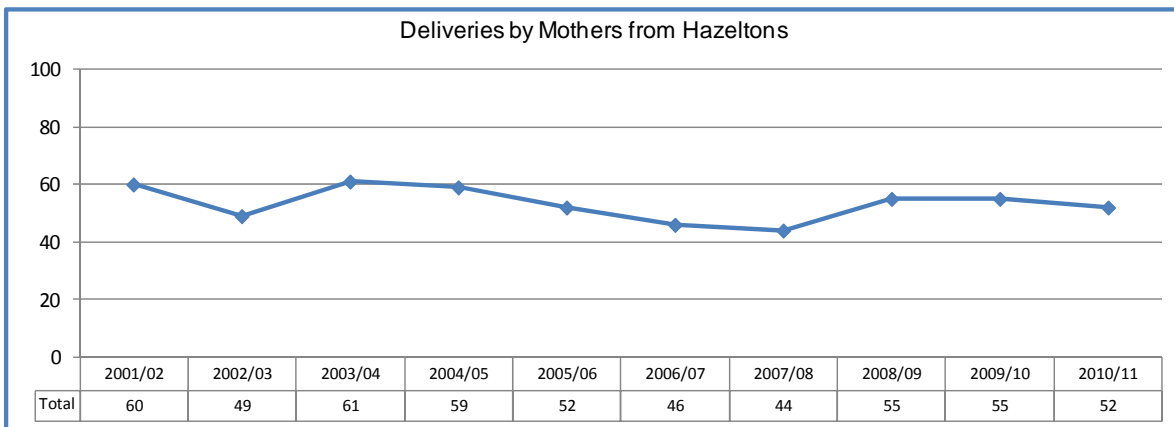
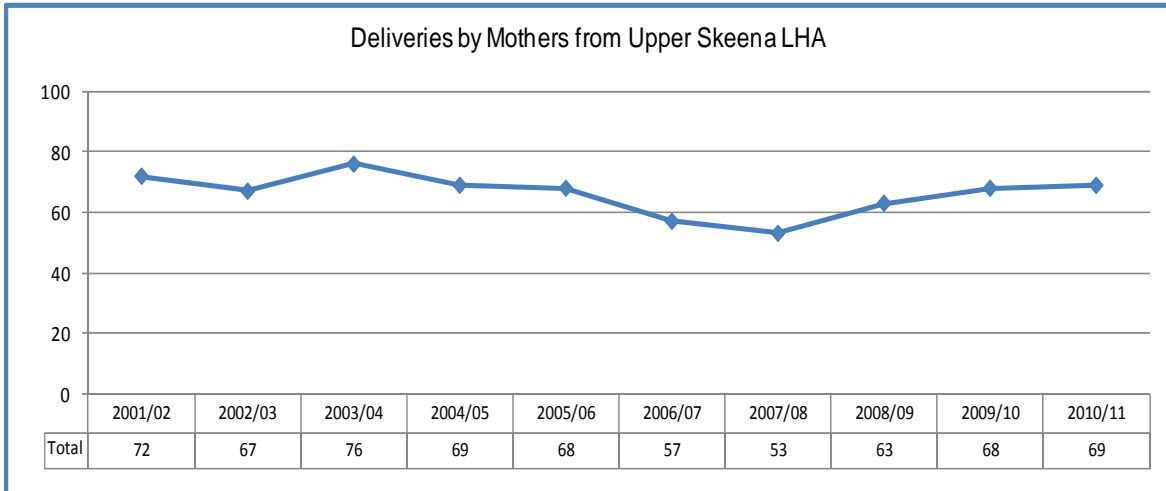
Where mothers from the Upper Skeena LHA delivered: 2001/ 02 – 2010/11

Delivery Location	Deliveries in British Columbia by Fiscal Year <sup>14</sup>									
	2001 2002	2002 2003	2003 2004	2004 2005	2005 2006	2006 2007	2007 2008	2008 2009	2009 2010	2010 2011
Hazelton	54	52	60	45	32	36	32	35	27	29
Terrace	11	7	12	5	15	7	9	9	18	14
Smithers	4	3	2	15	14	13	10	17	20	22
Other BC places	3	5	2	4	7	1	2	2	3	4
Total Deliveries	72	67	76	69	68	57	53	63	68	69

Note: At the time this summary was prepared, BC homebirths had not yet been fully reported. As a result, the data shown for fiscal 2010/11 should be considered provisional and subject to revision at a later date.

## Delivery Trends by Community <sup>15</sup>

The following tables give us an indication of the long term trends occurring within the Upper Skeena Local Health Area and within selected communities.



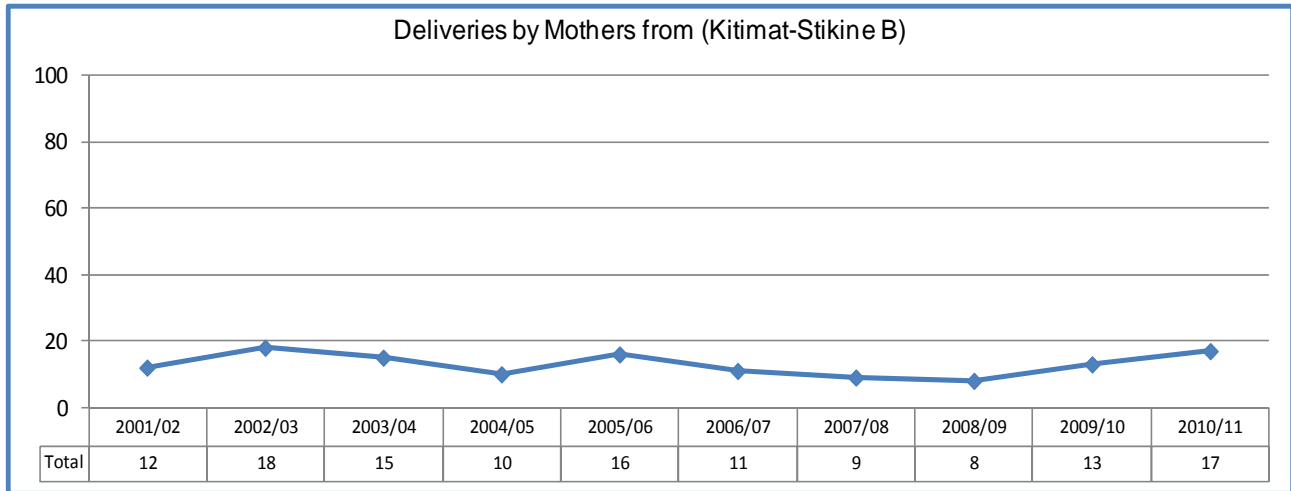
Hazeltons is an aggregate of Mothers from New Hazelton, Hazelton and South Hazelton

These figures are based upon mom's usual place of residence (LHA, Regional District Area or Community), not the facility location where delivery occurred.

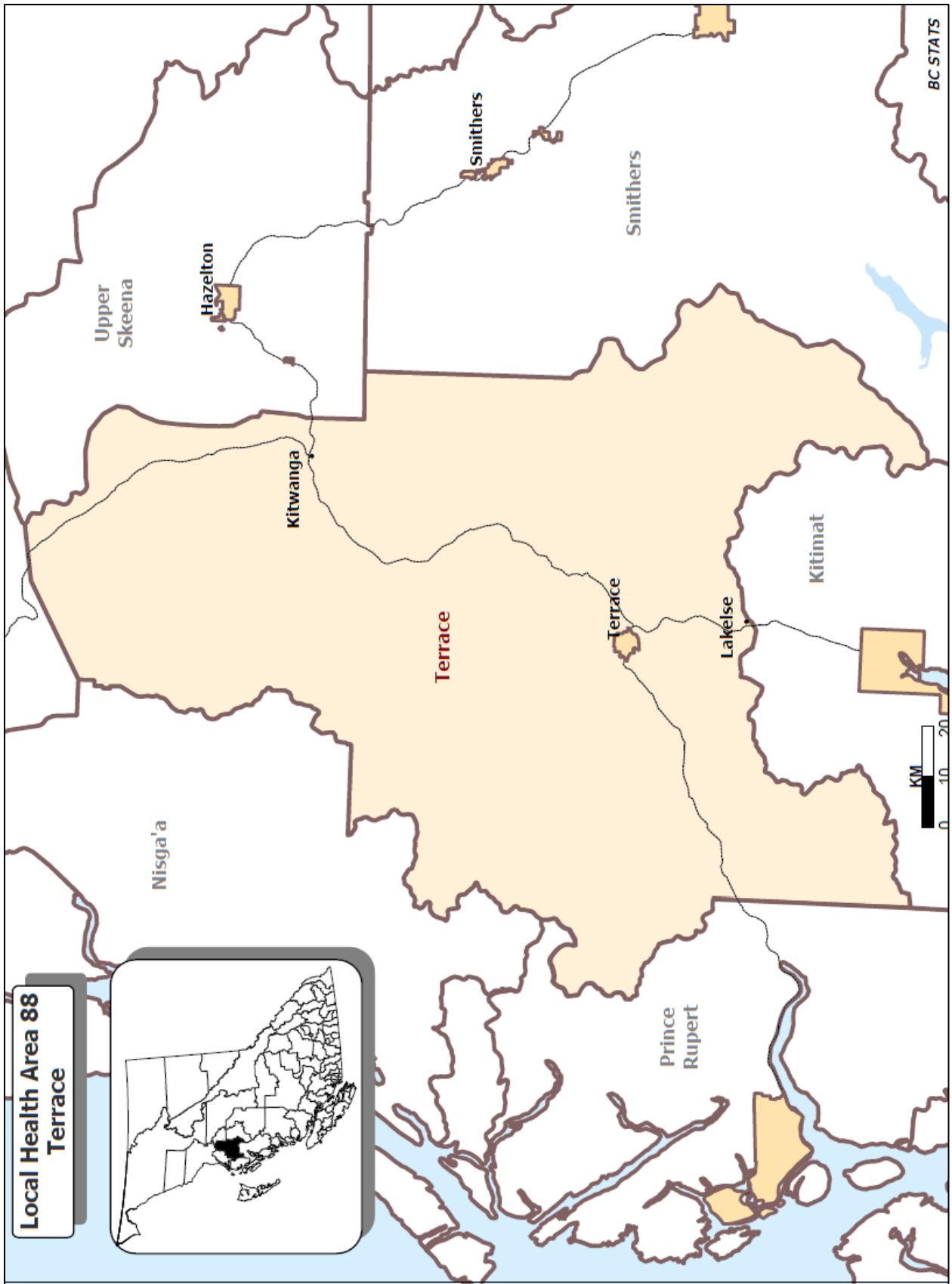


## Delivery Trends by Community

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## Thank you

Over the years we have worked closely with Perinatal Services BC. We are especially grateful to Cathe Johnson who has been an unflinching source of support for our efforts.

We are also grateful to Donna Boyd and her colleagues in the Alberta Perinatal Health Program who support us with data so that we might better understand the health needs and outcomes of northerners who choose to receive maternity services in Alberta.

## References

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- <sup>1</sup> Northern Health Resident Mothers and Newborn Babies: Selected Indicators April 01, 2006 – March 31, 2011. Data prepared for Northern Health by Perinatal Services BC: February 2012. Request No. 2011-051.
- <sup>2</sup> BC Provincial Health Officers Annual Report 1999. Appendix C: Indicator Definitions <http://www.health.gov.bc.ca/pho/reports/>
- <sup>3</sup> Infant Macrosomia Among First Nations in British Columbia: Prevalence, Trends and Characteristics. Key Findings: page IV. BC Vital Statistics Agency: [http://www.vs.gov.bc.ca/stats/indian/infant\\_macrosomia.html](http://www.vs.gov.bc.ca/stats/indian/infant_macrosomia.html)
- <sup>4</sup> Validation of the Indications for cesarean delivery in the BC Perinatal Registry: Volume 1, Issue 5, April 2012. Refer to Table 3, page 7: Perinatal Services BC: <http://www.perinataleservicesbc.ca>
- <sup>5</sup> BC Provincial Health Officers Annual Report 1999. Appendix C: Indicator Definitions <http://www.health.gov.bc.ca/pho/reports/>
- <sup>6</sup> BC Vital Statistics Agency Annual Reports: <http://www.vs.gov.bc.ca/stats/annual/index.html>
- <sup>7</sup> Northern Health Resident Mothers and Newborn Babies: Selected Indicators April 01, 2006 – March 31, 2011. Data prepared for Northern Health by Perinatal Services BC: February 2012. Request No. 2011-051.
- <sup>8</sup> Pollack et al. as cited in Perinatal Services BC, BC Perinatal Database Annual Report 2007: Page 14. <http://www.perinataleservicesbc.ca/Annual%20Report.htm>
- <sup>9</sup> Perinatal Services BC; Perinatal Annual Indicators for BC Residents: Updated February 16, 2012. <http://www.perinataleservicesbc.ca/DataAndSurveillance/Surveillance/annual-indicators/default.htm>
- <sup>10</sup> Perinatal Services BC, BC Perinatal Database Annual Report 2008: Page 57. <http://www.perinataleservicesbc.ca/DataAndSurveillance/Surveillance/AnnualReports/default.htm>
- <sup>11</sup> Northern Health Resident Mothers and Newborn Babies: Selected Indicators April 01, 2006 – March 31, 2011. Data prepared for Northern Health by Perinatal Services BC: February 2012. Request No. 2011-051.
- <sup>12</sup> Northern Health Resident Mothers that Delivered a Baby in British Columbia, by Resident Municipality, April 01 2000 - March 31, 2011: Data prepared for Northern Health by Perinatal Services BC. Request 211051: an update to reports: 2008078, 200901, 201040 and 211011. February 2012.
- <sup>13</sup> Northern Health Resident Mothers that Delivered a Baby in British Columbia, by Resident Municipality, April 01 2000 - March 31, 2011: Data prepared for Northern Health by Perinatal Services BC. Request 211051: an update to reports: 2008078, 200901, 201040 and 211011. February 2012.
- <sup>14</sup> Northern Health Resident Mothers that Delivered a Baby in British Columbia, by Resident Municipality, April 01 2000 - March 31, 2011: Data prepared for Northern Health by Perinatal Services BC. Request 211051: an update to reports: 2008078, 200901, 201040 and 211011. February 2012.
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