

Healthy Moms and Infants

Selected Indicators

Burns Lake
Local Health Area 055
and
Communities

June 2012



northern health
the northern way of caring

Selected Indicators ¹

During the 2006/07 - 2010/11 period (5 years) 385 mothers from the Burns Lake Local Health Area (LHA) delivered 387 newborns. Here is a summary.

Mothers	Burns Lake LHA		BC Overall	
	Number	%	Number	%
Total Number of Mothers	385	100	216,439	100
Cesarean Section Deliveries	92	23.90	65,918	30.46
Births to women ages \leq 19 yrs (teen moms)	22	5.71	5,872	2.71
Births to women ages $>$ 35 (elderly gravida)	40	10.39	38,540	17.81
Mothers who smoked during pregnancy	35	9.09	20,752	9.59

Newborns	Burns Lake LHA		BC Overall	
	Number	%	Number	%
Total Number of Newborns	387	100	219,909	100
Total Number of Live Births	385	99.48	218,802	99.50
Preterm Births	39	10.08	21,405	9.73
Low Birth-weight ($<$ 2500 grams)	22	5.68	12,783	5.81
Small for Gestational Age (SGA)	27	6.98	15,149	6.89
High Birth-weight ($>$ 4000 grams)	54	13.95	27,042	12.30
Large for Gestational Age (LGA)	56	14.47	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.²

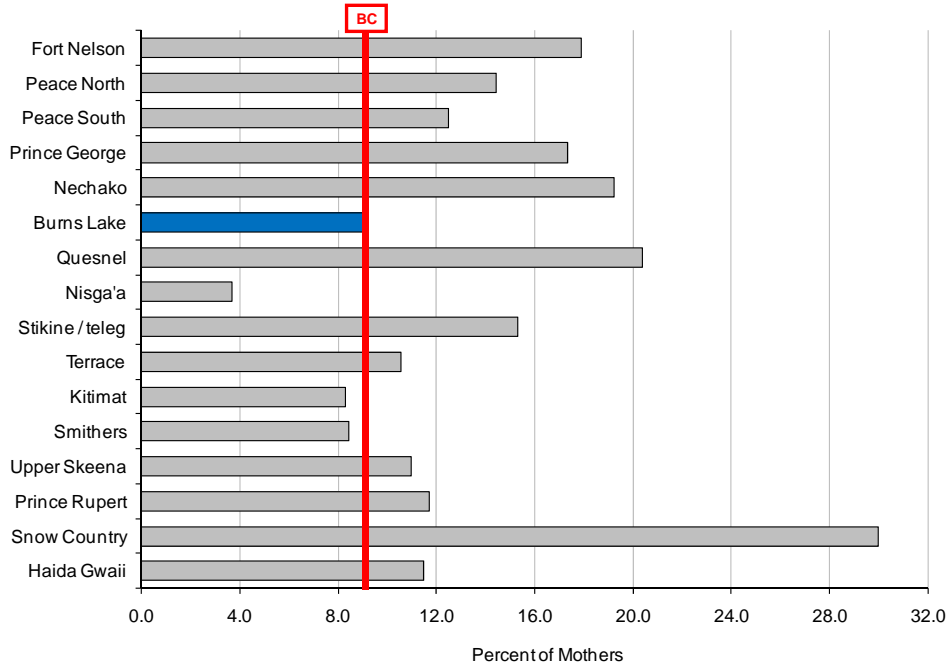
High Birth-weight Births involving high birth-weight babies tend to have higher rates of complications due to diabetes, Cephalo-Pelvic Disproportion (CPD) and / or obstructed labor. Shoulder dystocia and asphyxia in the infant are delivery complications that are closely associated with delivering high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

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.⁵ Northern BC mothers have some of the highest teen pregnancy and teen birth rates in BC.^{6, 7}

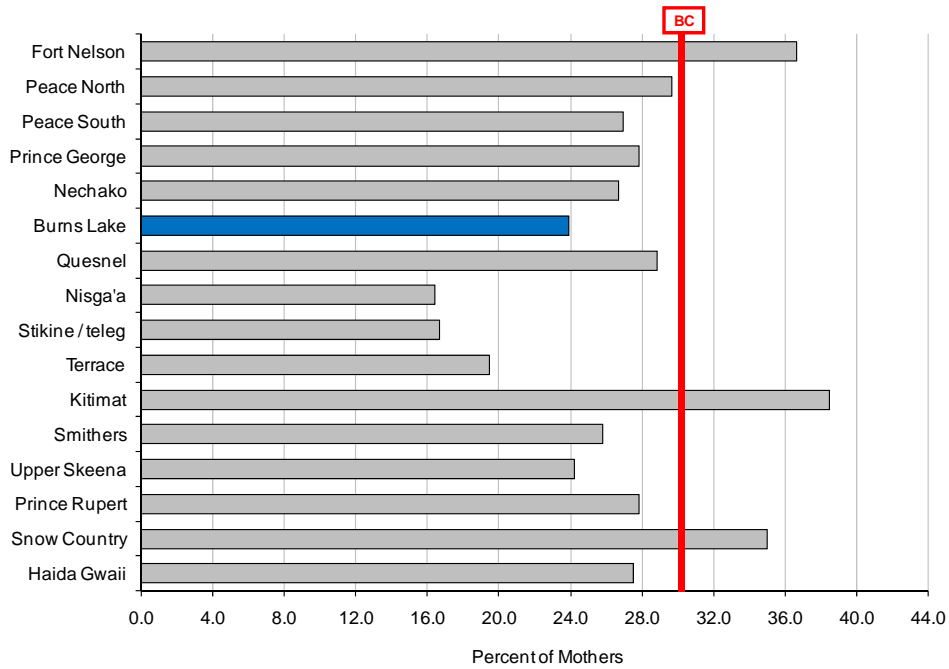
Mothers Who Smoke Exposure to tobacco smoke during pregnancy is associated with adverse outcomes including increased risk of preterm birth, stillbirth, low birth-weight, and placental abruption.⁸ Mothers from Northern BC have the highest “smoking during pregnancy” rates in BC.⁹ Also, the proportion of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

Selected Indicators ¹¹

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



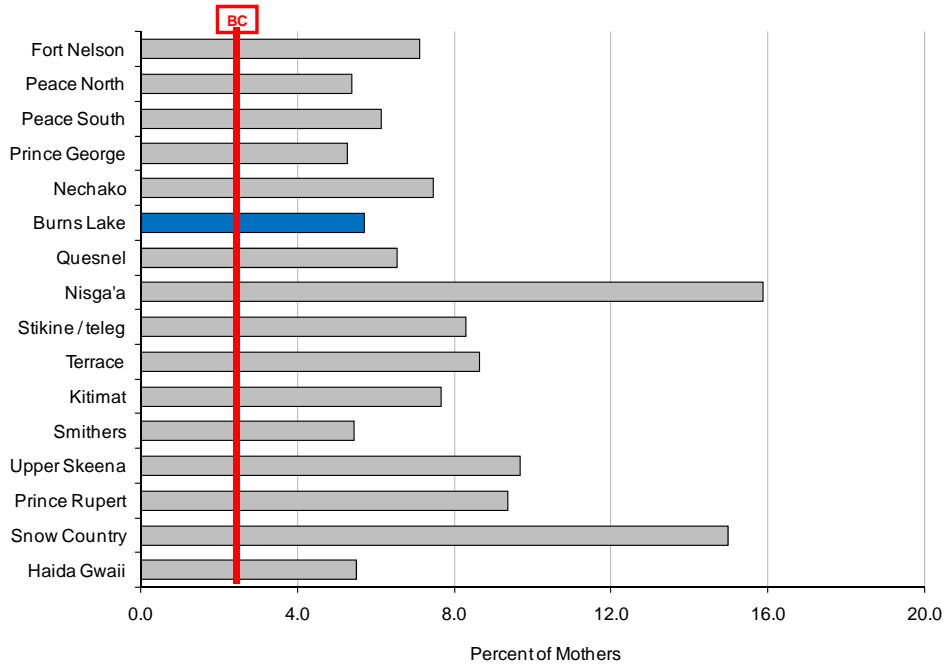
Cesarean Section Deliveries by Local Health Area: 2006 - 2011



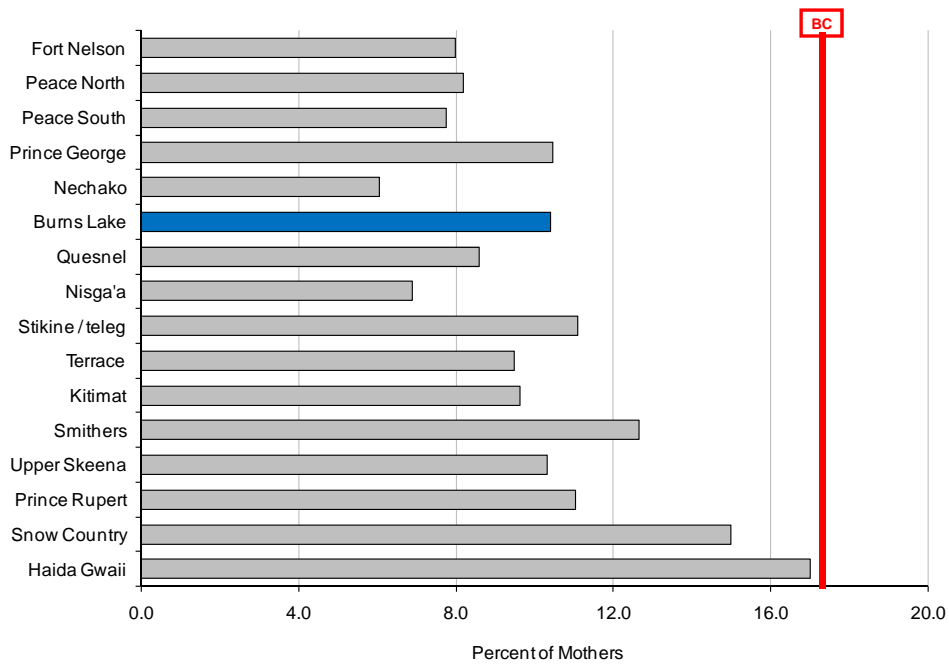
These figures are based upon mom's usual place (Local Health Area) of residence, not the facility location where delivery occurred.

Selected Indicators

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



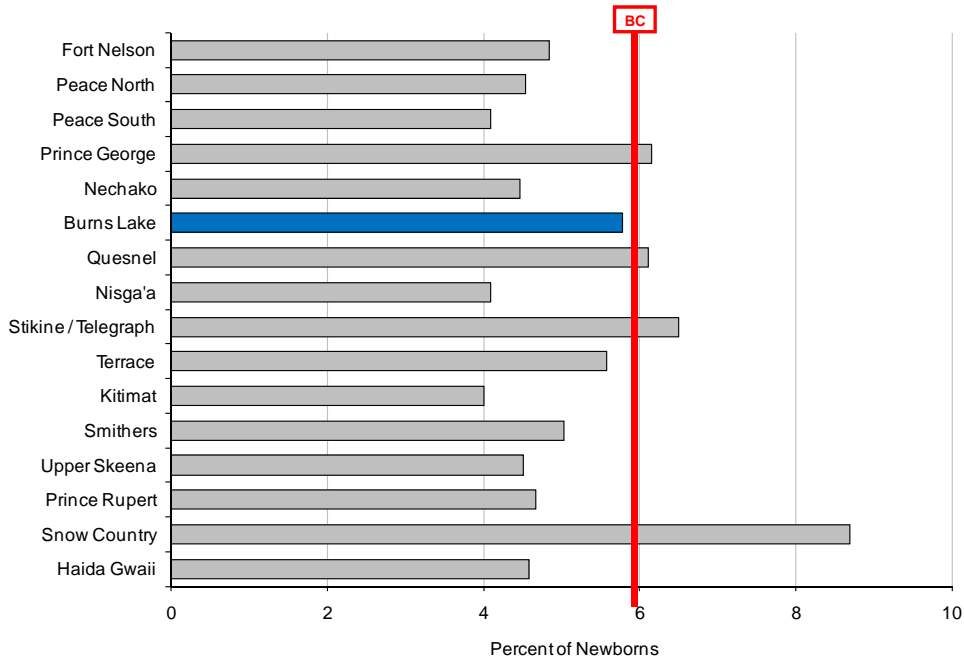
Older Moms (births to mothers ≥ 35 yrs) by Local Health Area: 2006 - 2011



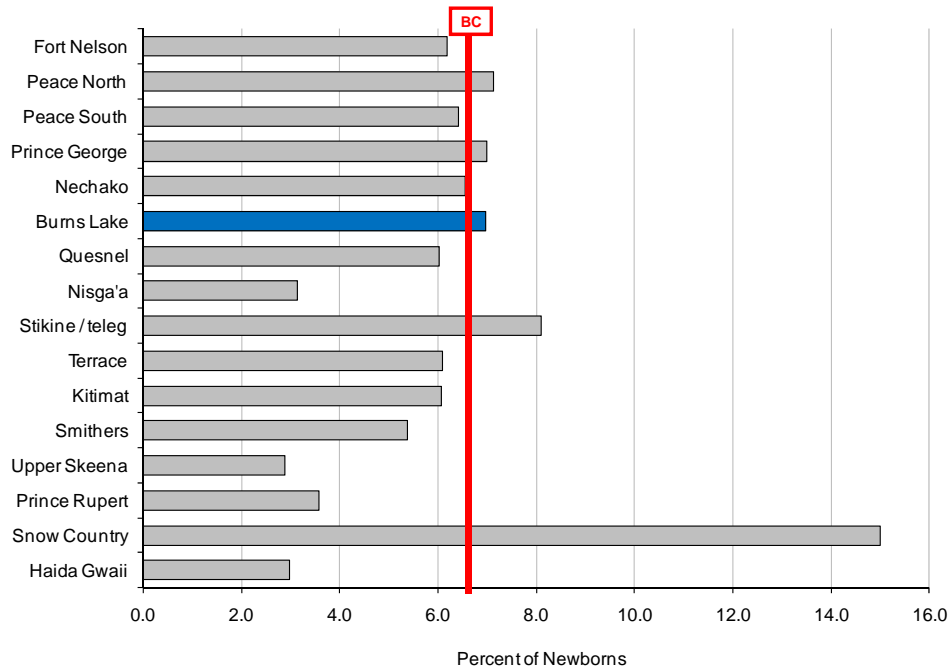
These figures are based upon mom's usual place (Local Health Area) of residence, not the facility location where delivery occurred.

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

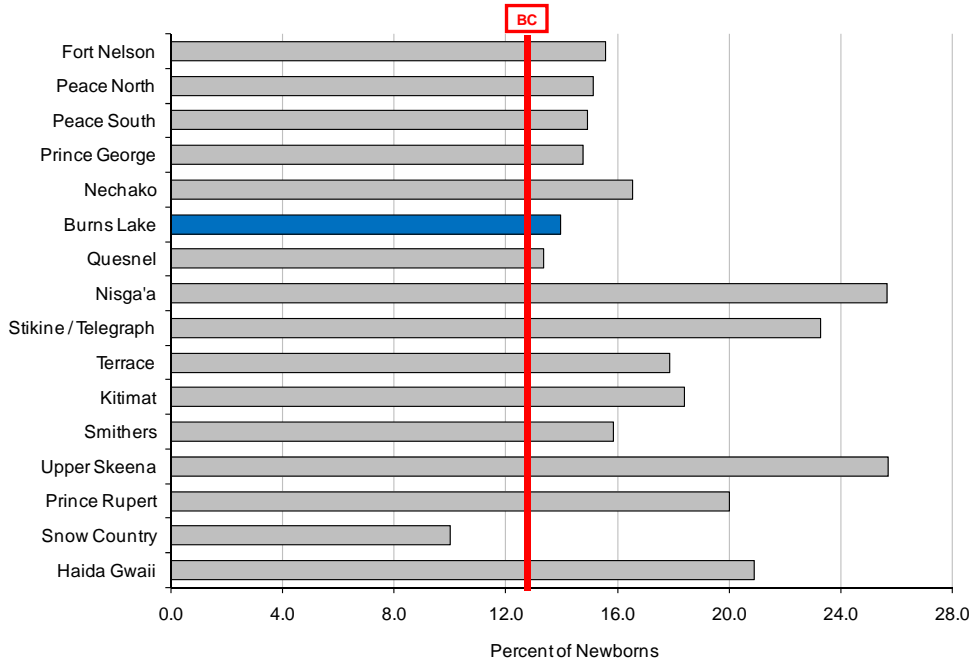


Small or Large for Gestational Age calculation is based on gender, birth number (singleton, multiple) and birth weight / gestational age charts for BC.

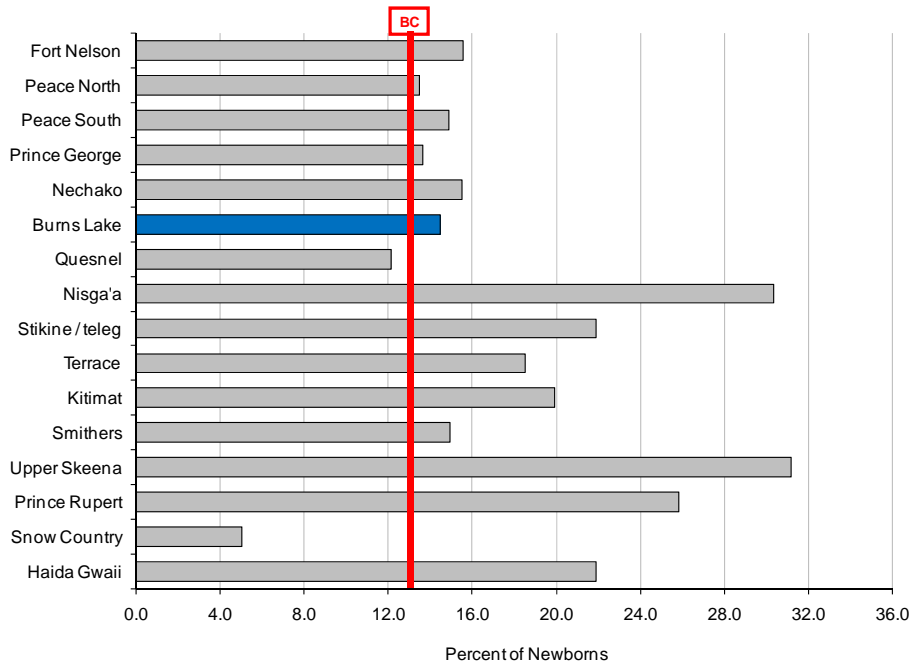
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Selected Indicators

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



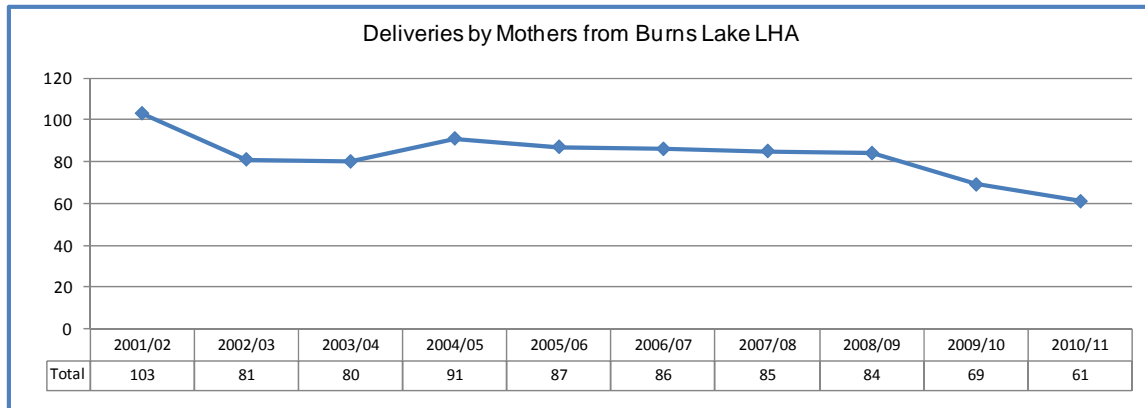
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Delivery Trends by Community ¹²

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 Burns Lake LHA mothers: 2001/02 – 2010/11 ¹³



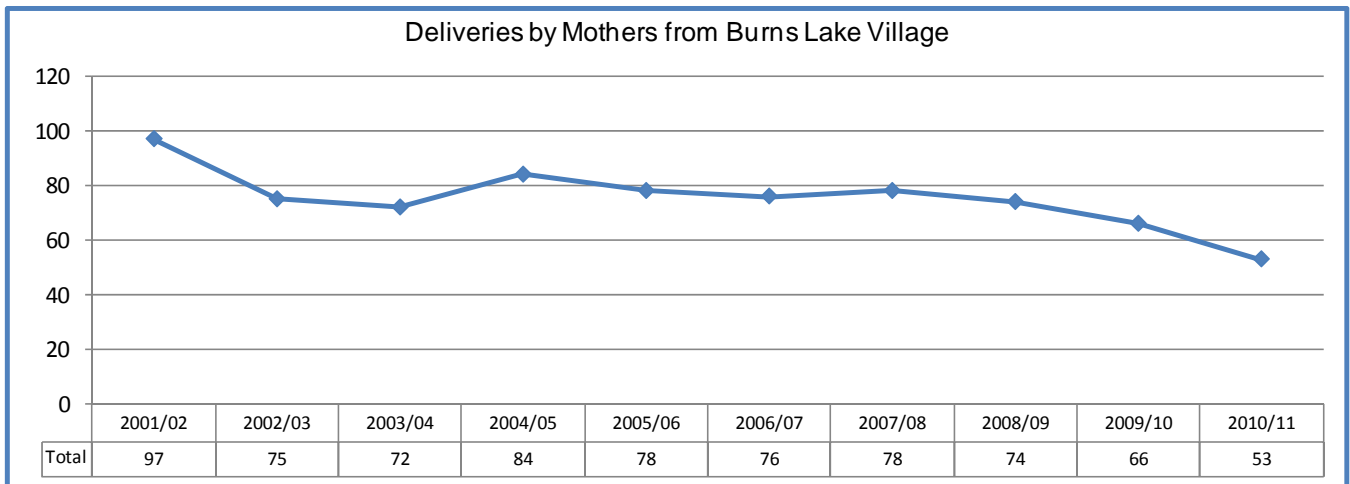
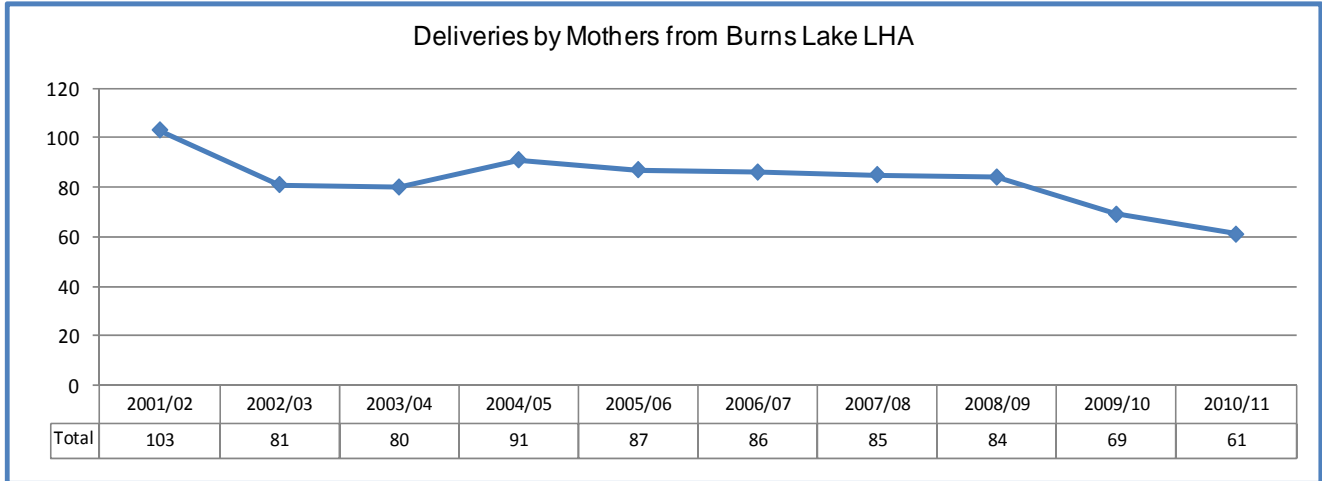
Where mothers from the Burns Lake LHA delivered: 2001/ 02 – 2010/11

Delivery Location	Deliveries in British Columbia by Fiscal Year ¹⁴									
	2001 2002	2002 2003	2003 2004	2004 2005	2005 2006	2006 2007	2007 2008	2008 2009	2009 2010	2010 2011
Burns Lake	72	52	42	50	43	43	32	53	15	2
Prince George	12	15	18	28	25	21	24	14	26	28
Smithers	10	3	10	5	4	5	6	6	12	16
Vanderhoof	8	5	4	6	10	11	19	6	13	14
Other BC Places	1	6	6	2	5	6	4	5	3	1
Total Deliveries	103	81	80	91	87	86	85	84	69	61

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 ¹⁵

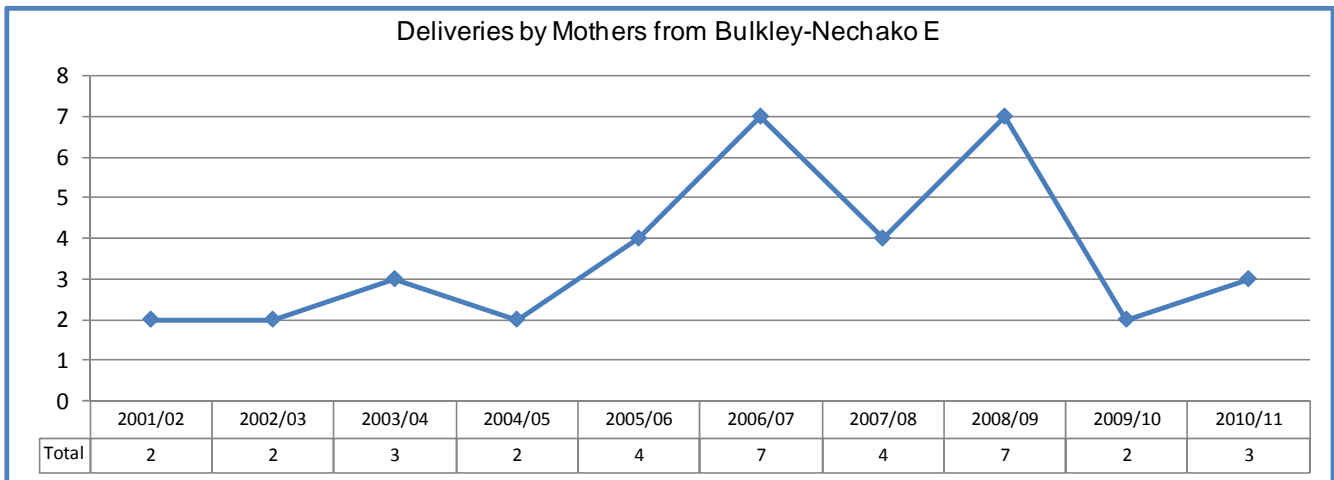
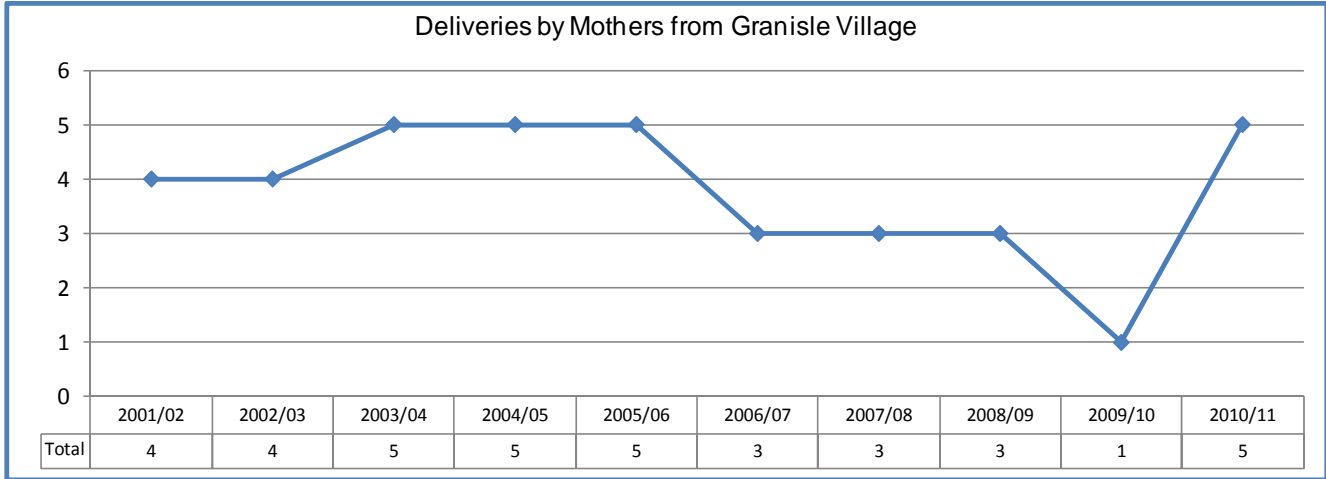
The following tables give us an indication of the long term trends occurring within the Burns Lake Local Health Area and within selected communities.



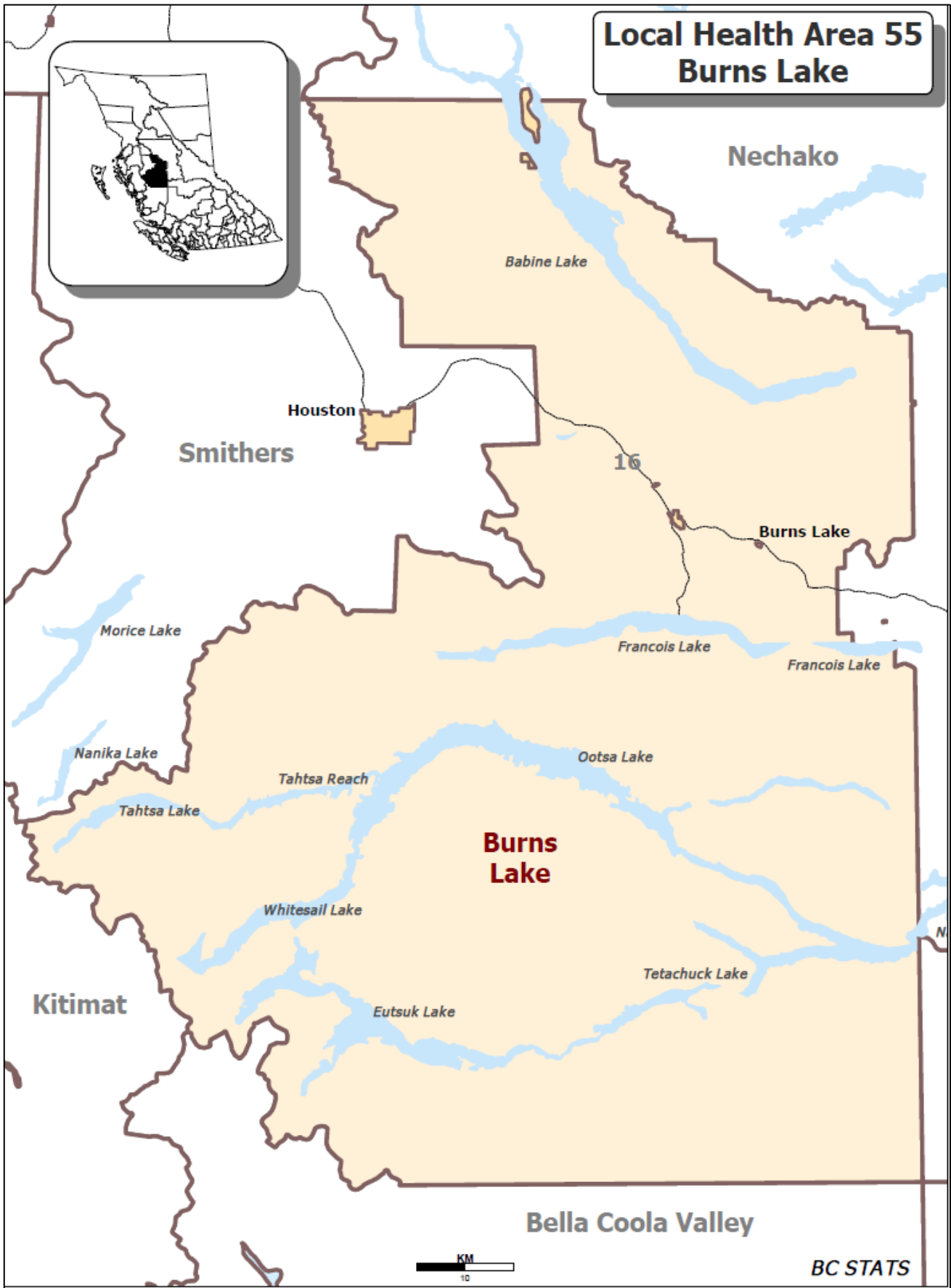
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Delivery Trends by Community

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



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



Bulkley-Nechako Regional District



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

- ¹ 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.
- ² BC Provincial Health Officers Annual Report 1999. Appendix C: Indicator Definitions <http://www.health.gov.bc.ca/pho/reports/>
- ³ 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
- ⁴ 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>
- ⁵ BC Provincial Health Officers Annual Report 1999. Appendix C: Indicator Definitions <http://www.health.gov.bc.ca/pho/reports/>
- ⁶ BC Vital Statistics Agency Annual Reports: <http://www.vs.gov.bc.ca/stats/annual/index.html>
- ⁷ 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.
- ⁸ Pollack et al. as cited in Perinatal Services BC, BC Perinatal Database Annual Report 2007: Page 14. <http://www.perinataleservicesbc.ca/Annual%20Report.htm>
- ⁹ Perinatal Services BC; Perinatal Annual Indicators for BC Residents: Updated February 16, 2012. <http://www.perinataleservicesbc.ca/DataAndSurveillance/Surveillance/annual-indicators/default.htm>
- ¹⁰ Perinatal Services BC, BC Perinatal Database Annual Report 2008: Page 57. <http://www.perinataleservicesbc.ca/DataAndSurveillance/Surveillance/AnnualReports/default.htm>
- ¹¹ 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.
- ¹² 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.
- ¹³ 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.
- ¹⁴ 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.
- ¹⁵ 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.