

Healthy Moms and Infants

Selected Indicators

Peace River North
Local Health Area 060
and
Communities

June 2012



northern health
the northern way of caring

Selected Indicators ¹

During the 2006/07 - 2010/11 period (5 years) 3,008 mothers from the Peace River North Local Health Area (LHA) delivered 3,032 newborns. Here is a summary.

Mothers	Peace North LHA		BC Overall	
	Number	%	Number	%
Total Number of Mothers	3,008	100	216,439	100
Cesarean Section Deliveries	893	29.69	65,918	30.46
Births to women ages \leq 19 yrs (teen moms)	162	5.39	5,872	2.71
Births to women ages $>$ 35 (elderly gravida)	246	8.18	38,540	17.81
Mothers who smoked during pregnancy	434	14.43	20,752	9.59

Newborns	Peace North LHA		BC Overall	
	Number	%	Number	%
Total Number of Newborns	3,032	100	219,909	100
Total Number of Live Births	3,011	99.31	218,802	99.50
Preterm Births	206	6.79	21,405	9.73
Low Birth-weight ($<$ 2500 grams)	133	4.39	12,783	5.81
Small for Gestational Age (SGA)	216	7.12	15,149	6.89
High Birth-weight ($>$ 4000 grams)	459	15.14	27,042	12.30
Large for Gestational Age (LGA)	409	13.49	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

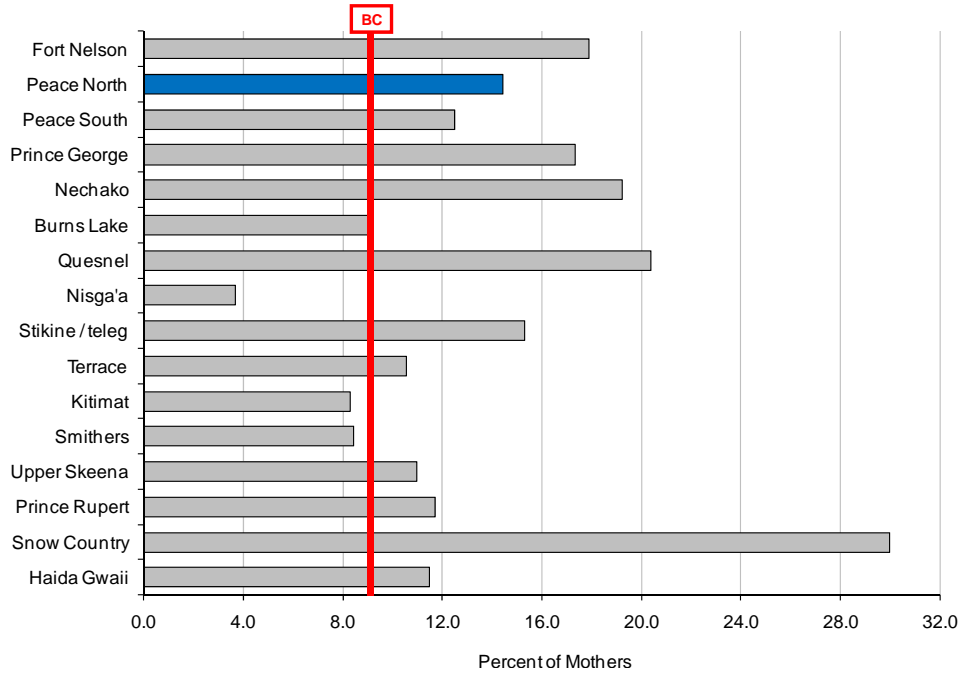
High Birth-weight Births involving high birth-weight babies tend to have higher rates of complications due to diabetes, Cephalo-Pelvic Disproportion (CPD) and / or obstructed labor. Shoulder dystocia and asphyxia in the infant are delivery complications that are closely associated with delivering high 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}

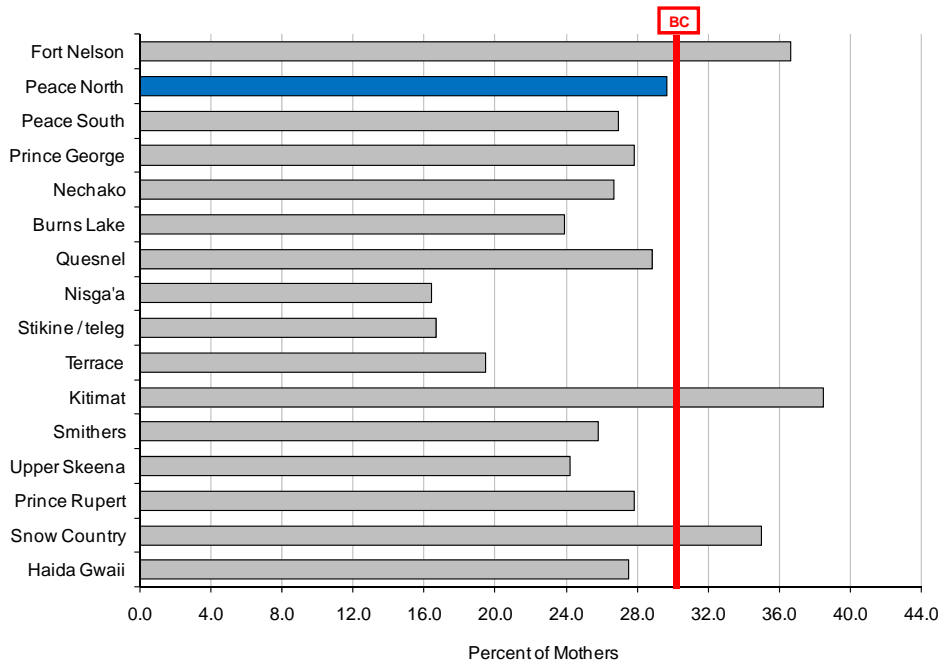
Mothers Who Smoke Exposure to tobacco smoke during pregnancy is associated with adverse outcomes including increased risk of preterm birth, stillbirth, low birth-weight, and placental abruption.⁸ Mothers from Northern BC have the highest “smoking during pregnancy” rates in BC.⁹ Also, the proportion of 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



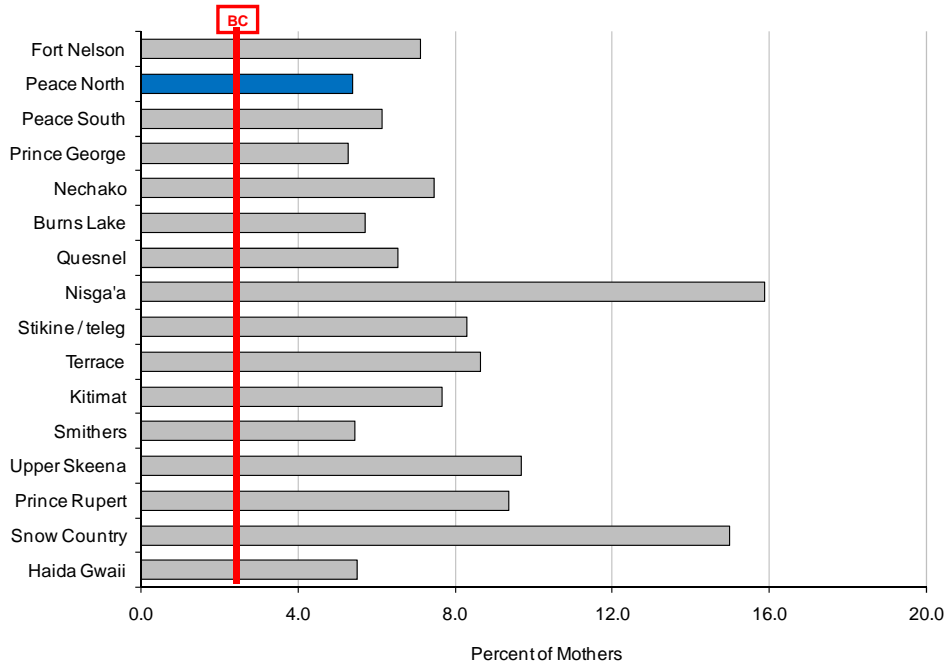
Cesarean Section Deliveries by Local Health Area: 2006 - 2011



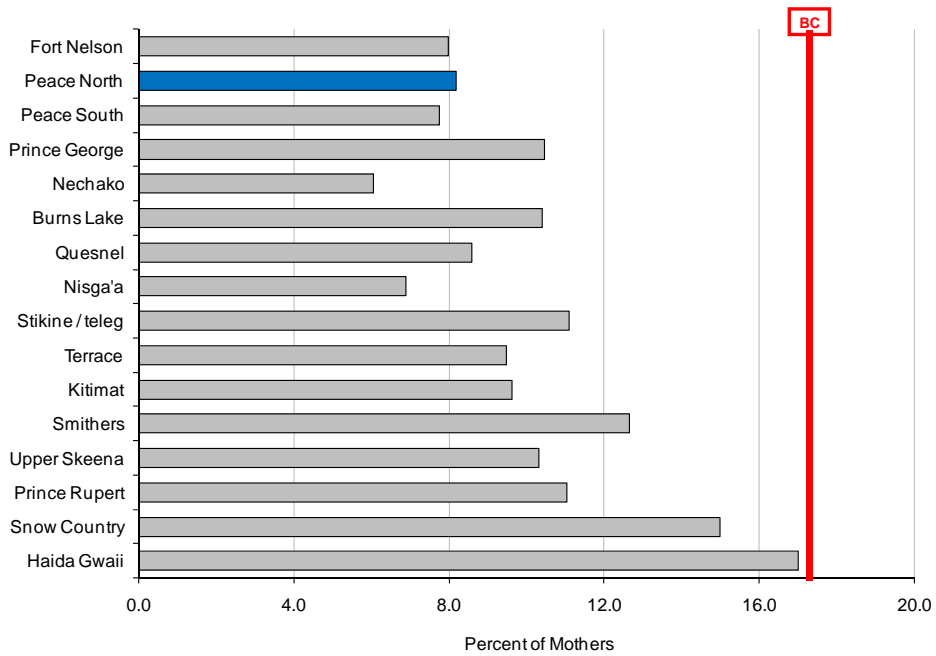
These figures are based upon mom's usual place (Local Health Area) of residence, not the facility location where delivery occurred.

Selected Indicators

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



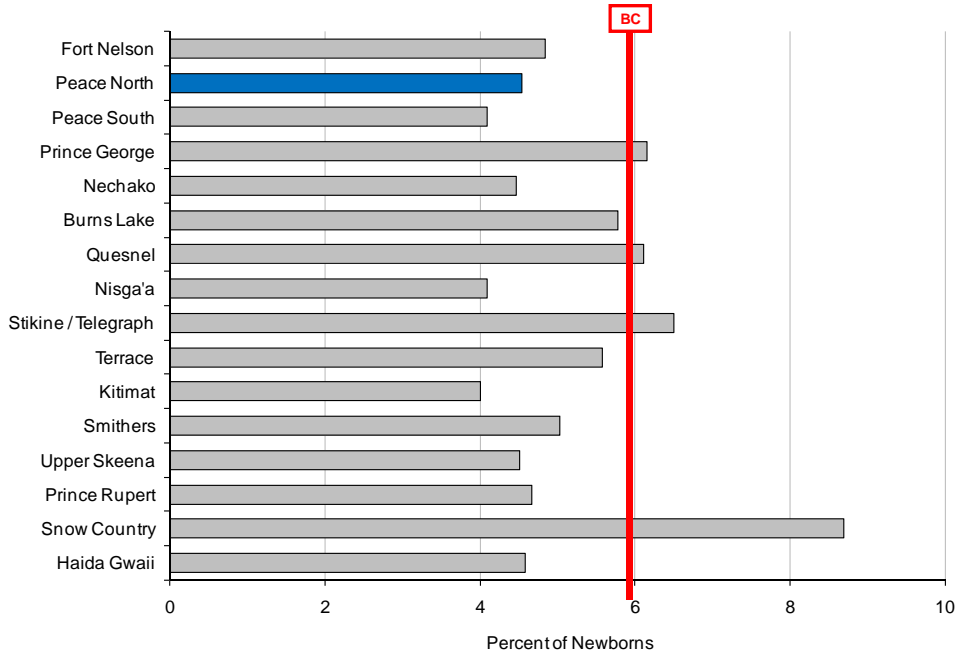
Older Moms (births to mothers ≥ 35 yrs) by Local Health Area: 2006 - 2011



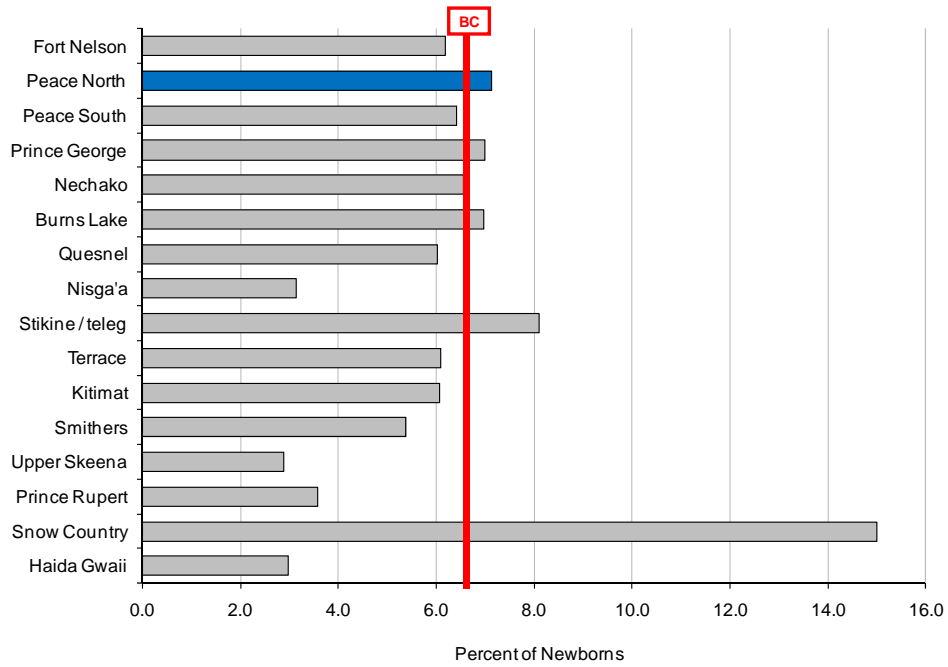
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Selected Indicators

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

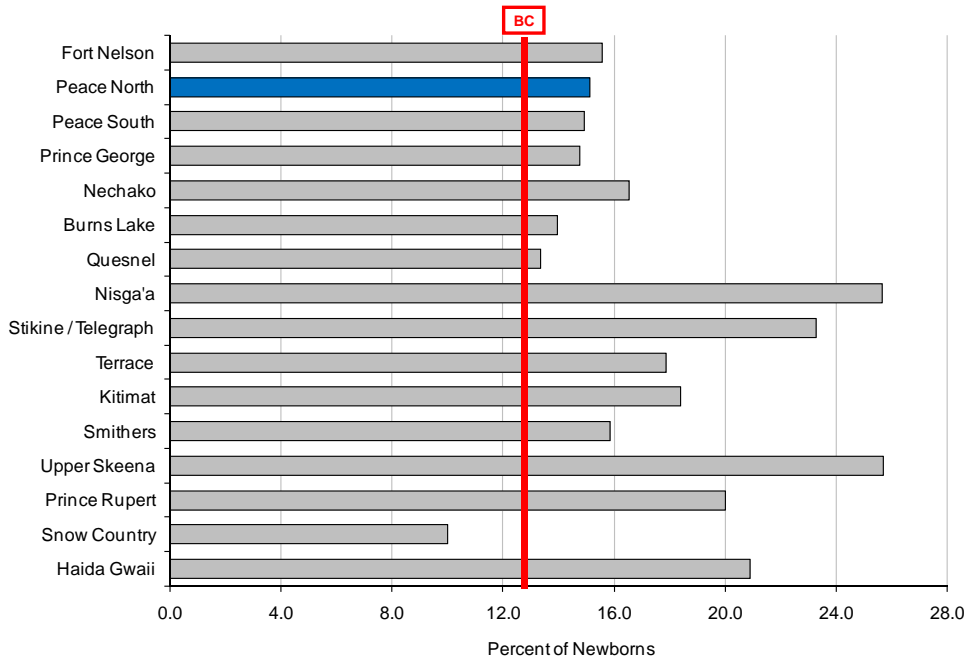


Small or Large for Gestational Age calculation is based on gender, birth number (singleton, multiple) and birth weight / gestational age charts for BC.

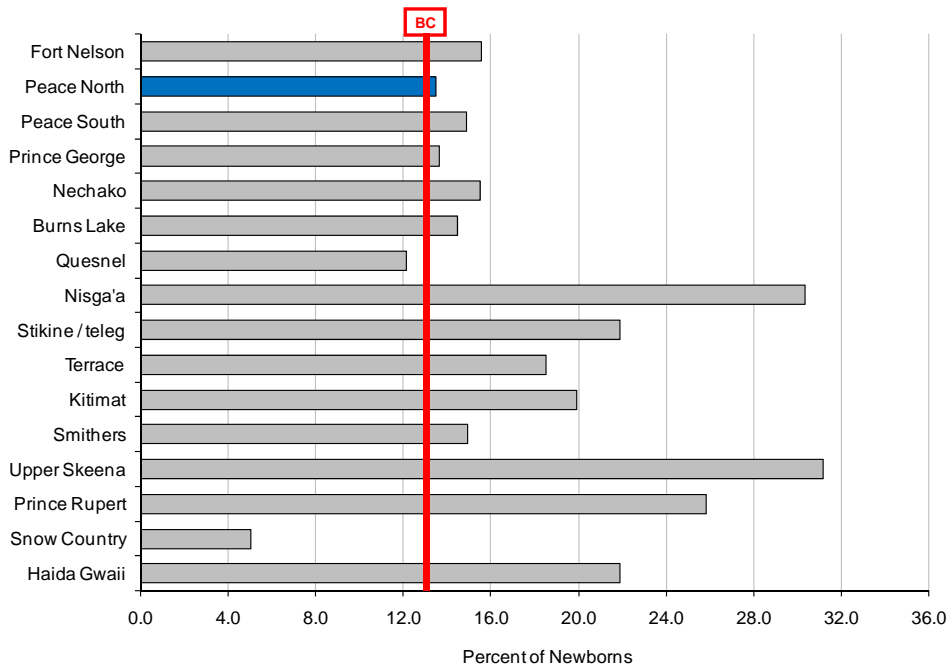
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High Birthweight Infants (greater than 4000 grams) by Local Health Area: 2006 - 2011



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



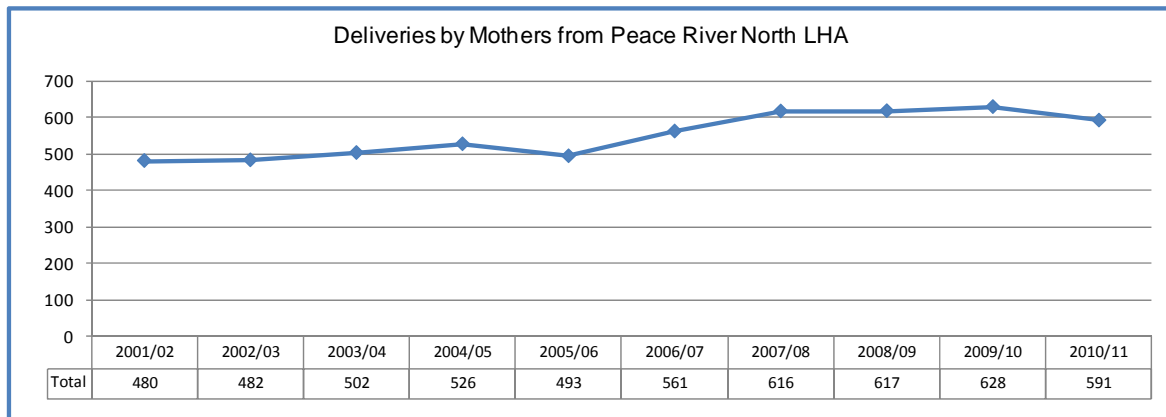
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Delivery Trends by Community ¹²

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 Peace River North mothers: 2001/02 – 2010/11 ¹³



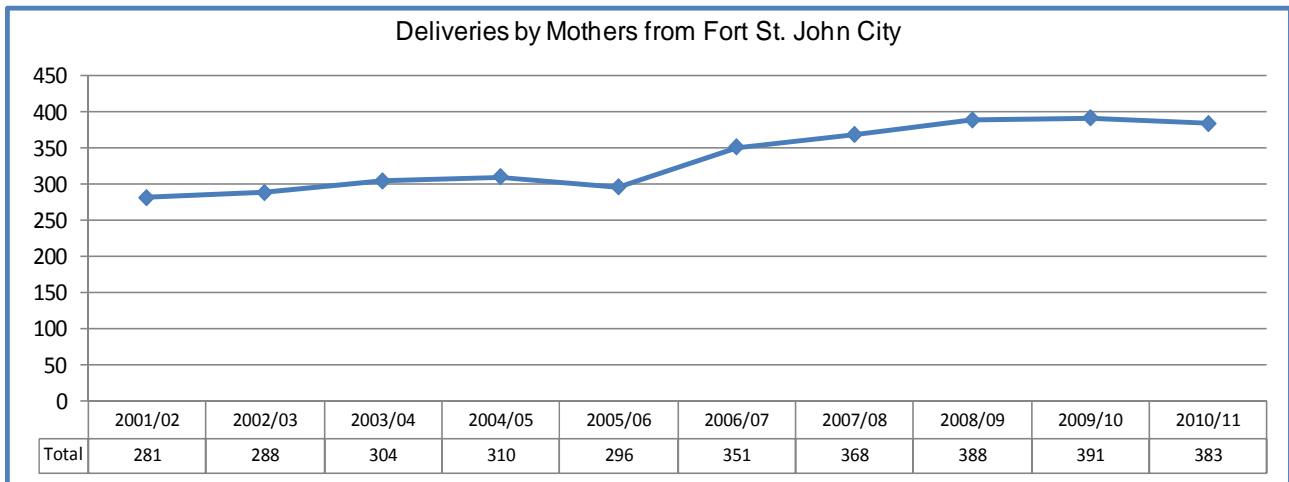
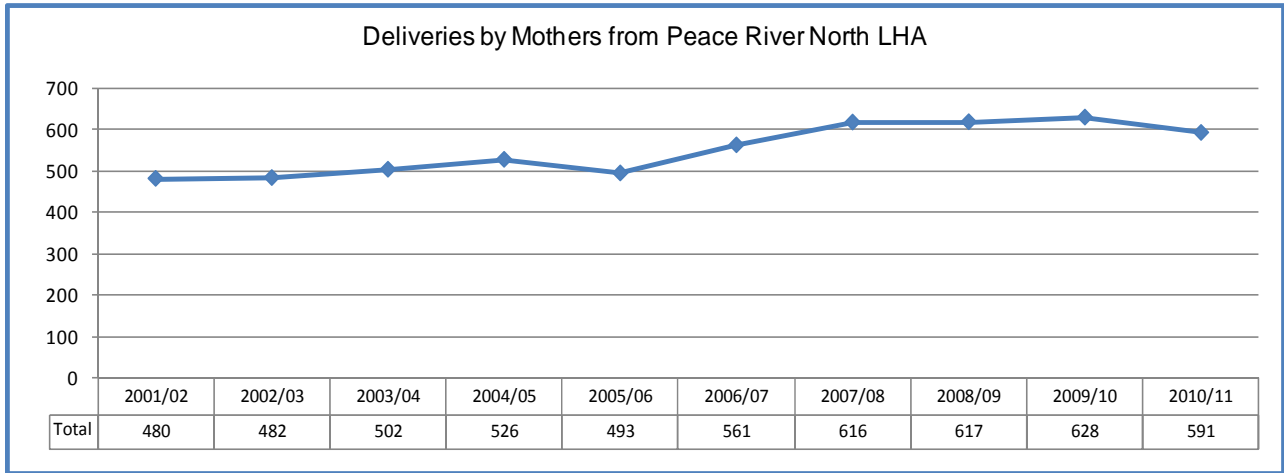
Where mothers from the Peace River North LHA delivered: 2001/ 02 – 2010/11

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
Fort St John	474	471	483	519	484	541	602	593	593	557
Dawson Creek	4	5	4	1	2	5	5	4	9	10
Prince George	1	3	1	4	1	5	5	7	7	12
Other BC Places	1	3	14	2	6	10	4	13	19	12
Total Deliveries	480	482	502	526	493	561	616	617	628	591

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

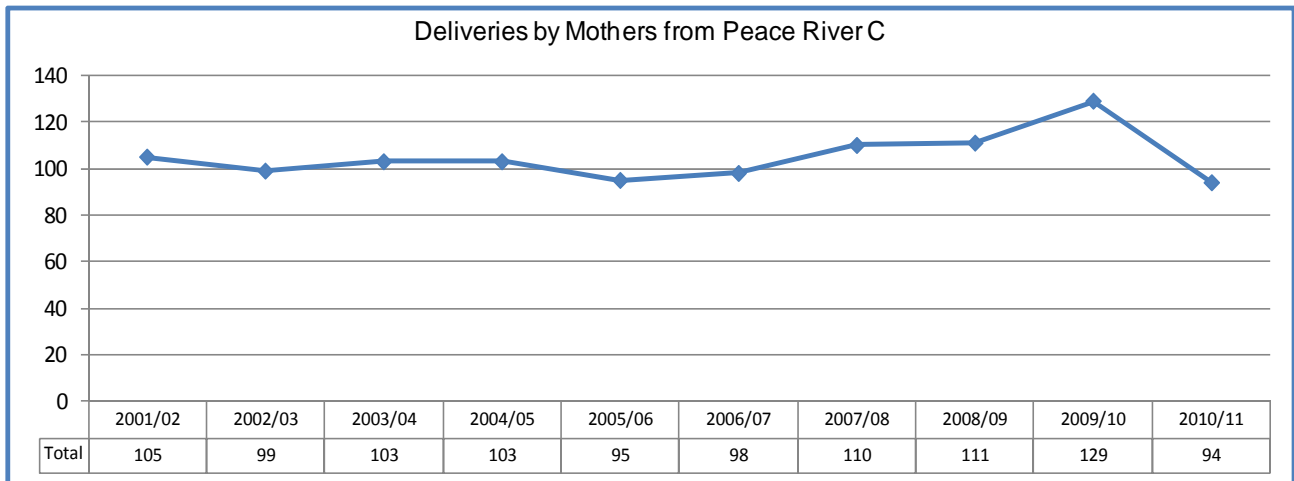
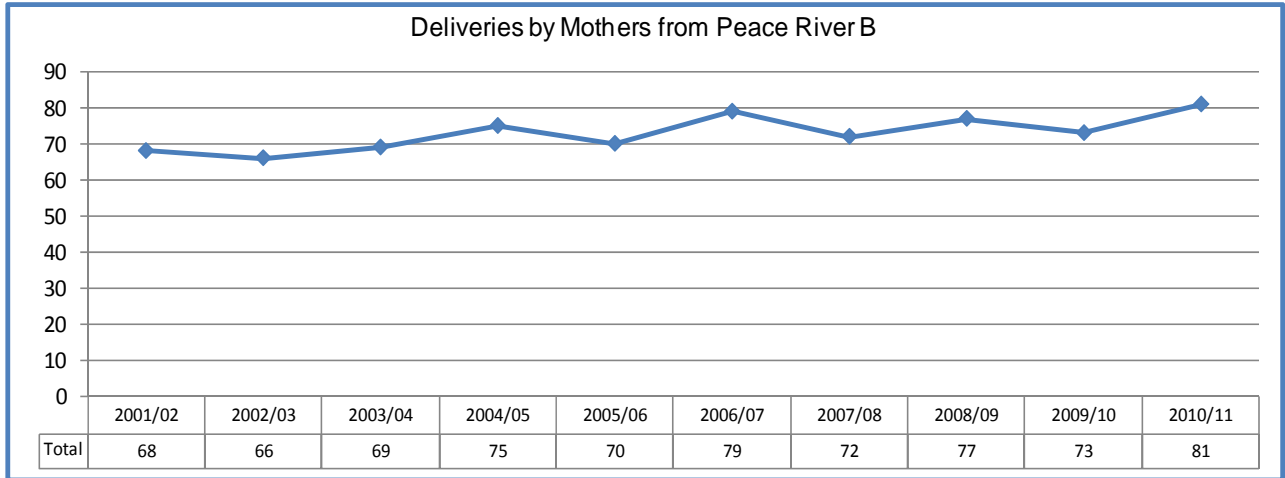
The following tables give us an indication of the long term trends occurring within the Peace River North Local Health Area and within selected communities.



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

Delivery Trends by Community

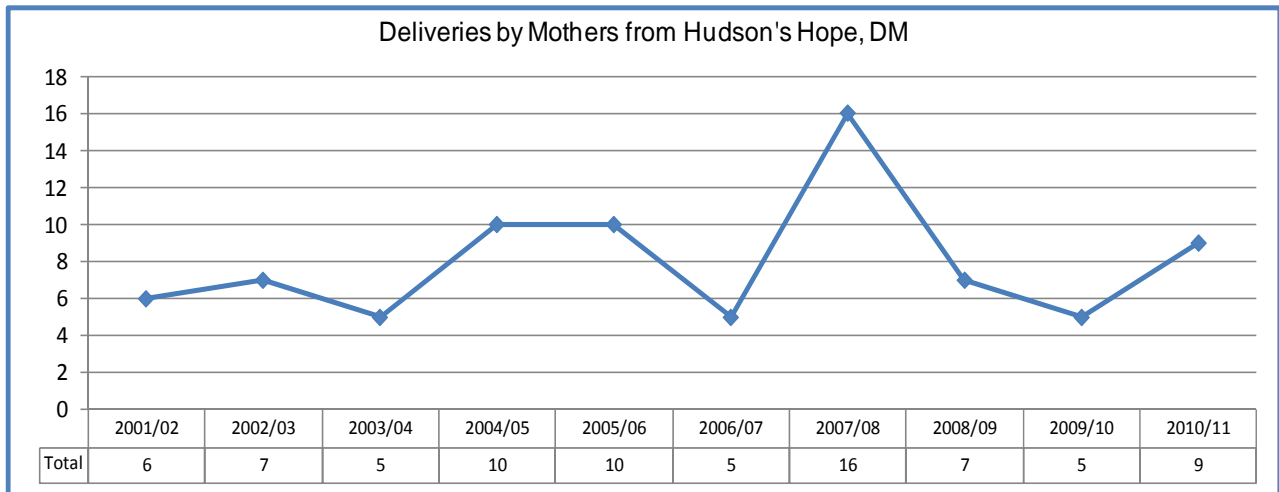
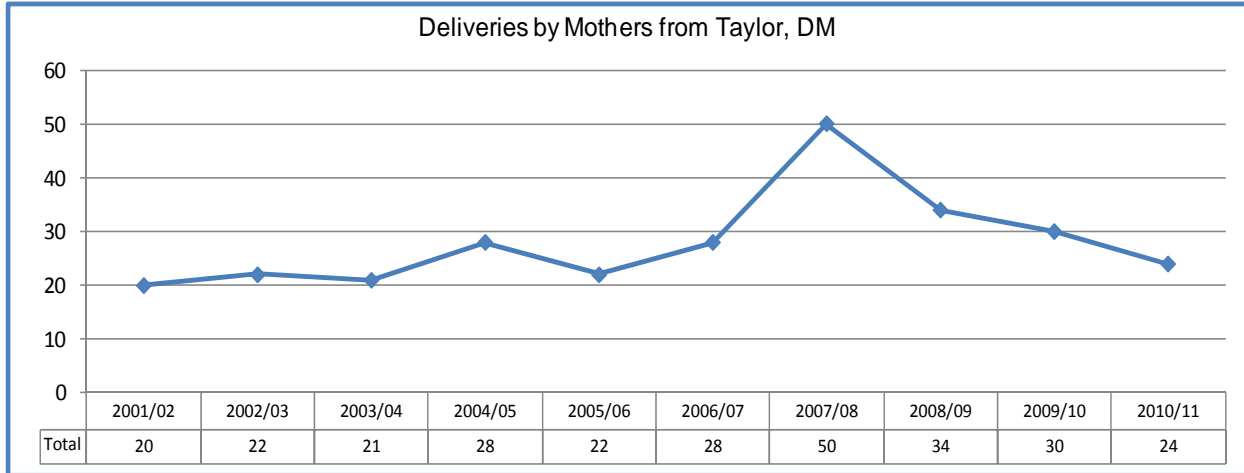
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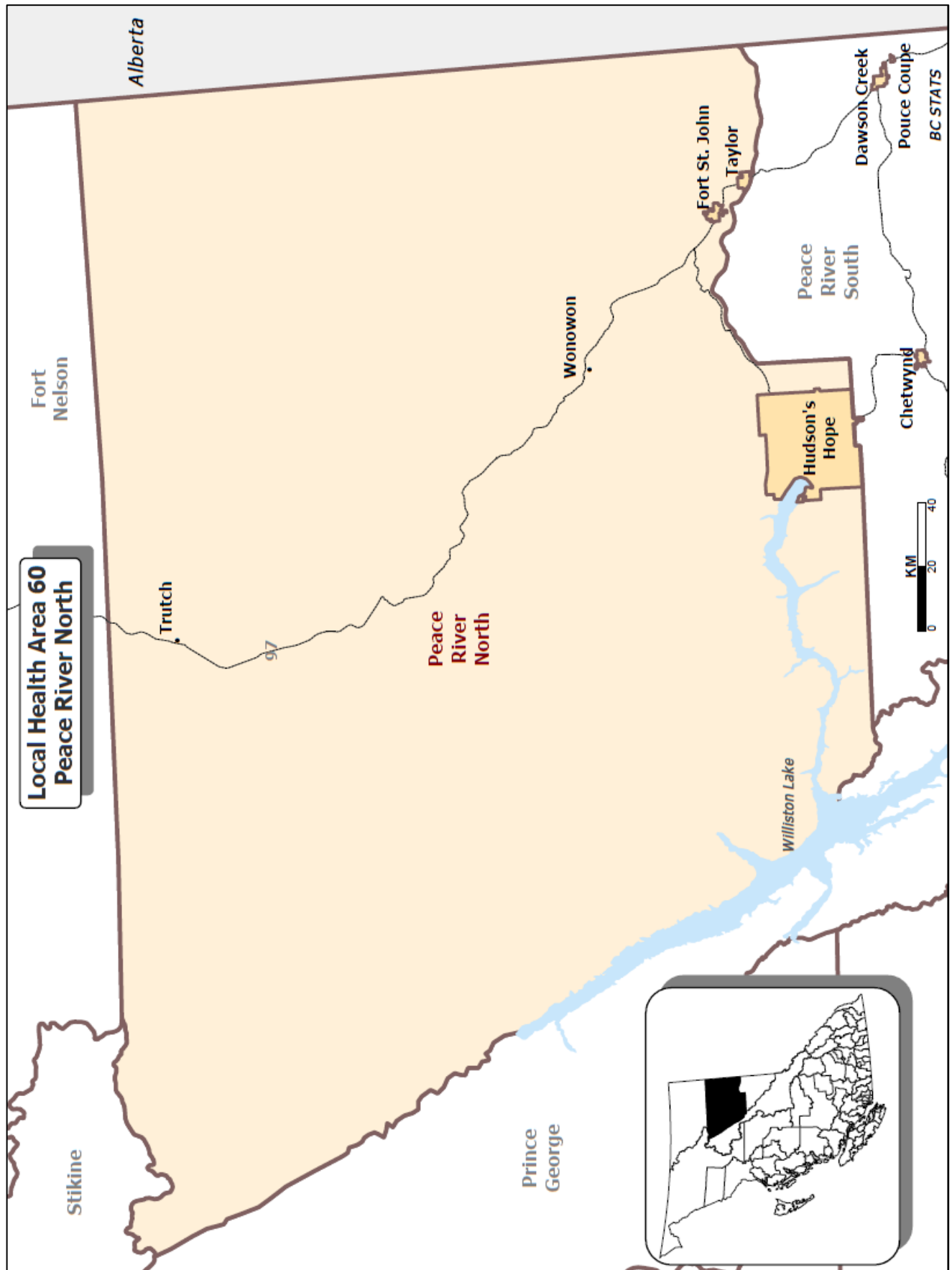
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Deliveries in Alberta

Each year in British Columbia a certain number of mothers choose to deliver their babies in Alberta. Below is an annual summary according to mother's home community.

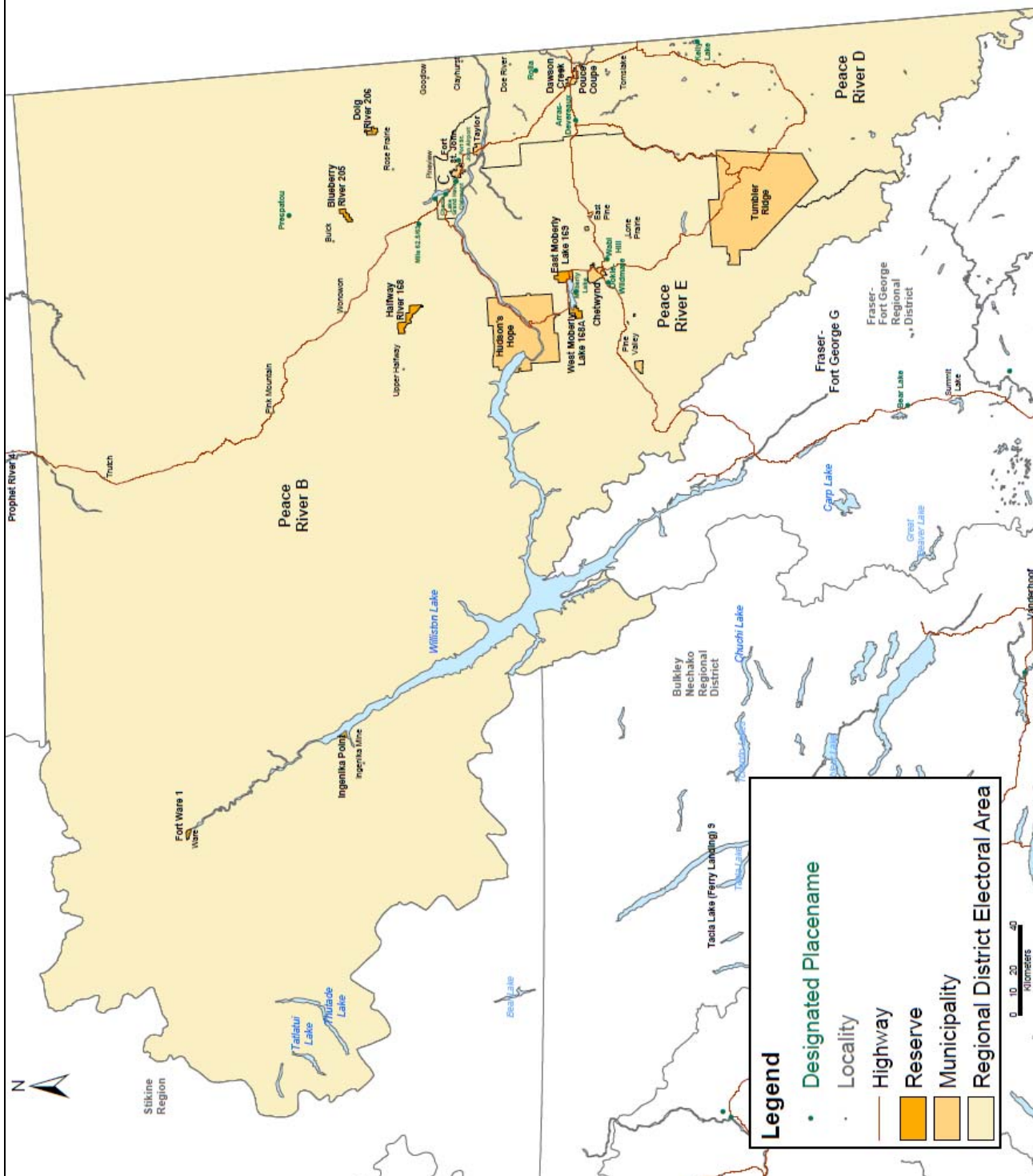
Mother's Home Community	Deliveries in Alberta by Fiscal Year ¹⁶						
	2004 2005	2005 2006	2006 2007	2007 2008	2008 2009	2009 2010	2010 2011
Ft Nelson	7	3	2	11	5	1	6
Ft St John	1	1	6	2	0	2	1
Dawson Creek	2	1	2	0	0	0	1
Chetwynd	6	1	3	1	2	0	2
Tumbler Ridge	0	0	0	3	1	0	0
McBride	4	3	4	3	2	1	2
Valemount	10	9	0	1	2	6	7
Total Deliveries	30	18	17	21	12	10	19

Source: Alberta Perinatal Health Program update for Northern Health. April 2012.



Peace River Regional District

Prepared by BC Stats
Source: 2006 Census
Statistics Canada



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.
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- ¹⁶ Alberta Perinatal Health Program, update for Northern Health: April 2012.