

# Healthy Northern Communities 2011

*Village of McBride*

Revised  
August 6, 2011

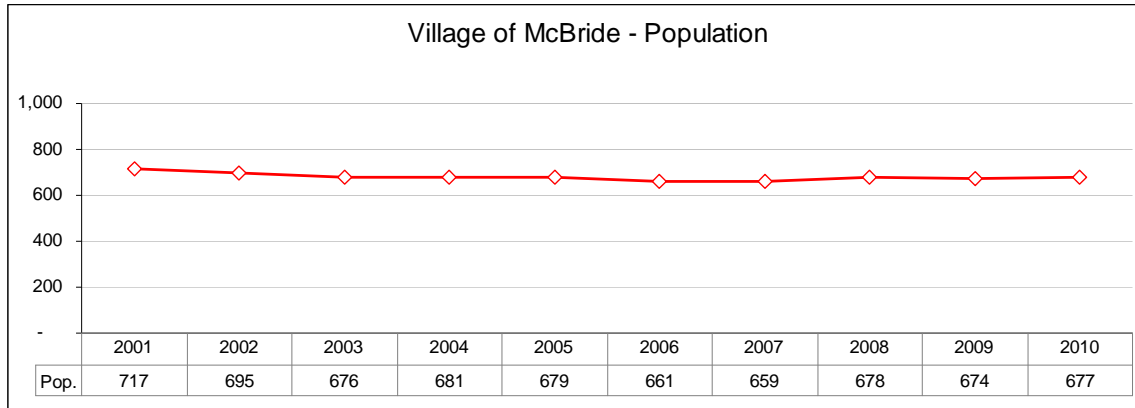


**northern health**  
*the northern way of caring*

## Village of McBride

The Village of McBride was incorporated in 1932. The Village of McBride is located approximately 210 km east of Prince George and 167 km west of Jasper Alberta.<sup>1</sup>

The Village of McBride is also situated within the Fraser-Fort George Regional District, within the Prince George Local Health Area (LHA 057) and the Northern Interior Health Service Delivery Area of Northern Health. McBride is served by School District No. 57.



The estimated 677 people within the Village of McBride account for approximately 0.7 % of the Prince George LHA population (677 / 96,405 persons) and for 0.7 % of the Fraser Fort George Regional District population (3,706 / 96,575 persons).<sup>2, 3, 4</sup>

During the 2009 calendar year, there were 7 births, 14 deaths and 7 marriages to the residents of McBride. The average life expectancy for McBride residents was 78.8 years. This was less than the BC average life expectancy of 81.4 years.<sup>5</sup>

### Community Information

Village of McBride: <http://www.mcbride.ca/>

Village of McBride: Living in McBride <http://www.mcbride.ca/>

Village of McBride, Official Community Plan  
<http://mcbride.ca/userfiles/file/admin/McBride%20OCP%20bylaw.pdf>

Regional District of Fraser Fort George: <http://www.rdffg.bc.ca>

BC Community Facts: <http://www.bcstats.gov.bc.ca/data/dd/facsheet/facsheet.asp>

Northern BC, Community Health Information Portal <http://chip.northernhealth.ca>

## What Determines Health?

A good strong start in life, early and enriching experiences, educational opportunities and achievement, a sufficient and equitable distribution of employment and income, housing, food, interactions with the natural and human built environments, our choices towards certain risk factors and lifestyles, as well as access to high quality health services, are just a few of the many determinants of health and wellbeing.<sup>6, 7</sup>

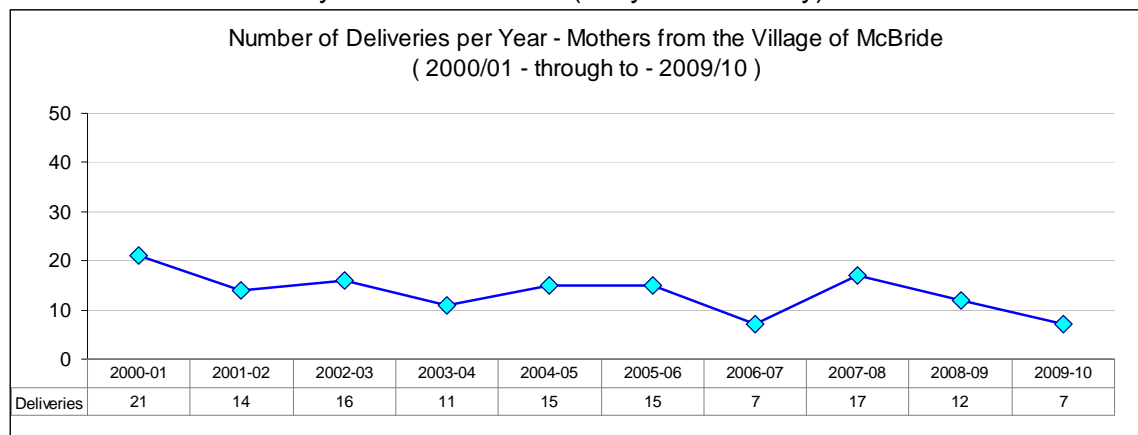
Selected Determinants of Health			
<b>Demographics</b>	McBride <sup>8</sup>	LHA <sup>9</sup>	BC <sup>10</sup>
Percent of population who are 0 – 19 yrs old	27.5	24.4	23.2
Percent of population who are ages 65+	12.2	11.0	15.0
Percent of population who are Visible Minorities	6.0	3.5	24.5
Percent of population who are Aboriginal Identity	10.0	22.1	4.8
<b>Income</b>			
Percent of families earning < \$20,000 per year	6.3	11.4	8.0
Percent of families earning from \$20,000 - \$80,000 per year	81.4	50.8	53.8
Percent of families earning > \$80,000 per year	21.9	37.7	38.1
* Percent of population receiving Income Assistance > 1 yr.	nca	1.8	1.0
<b>Early Development and Educational Achievement</b>			
Percent of kindergarten children vulnerable: 1 or more EDI scales <sup>11</sup>	nca	32.3	28.6
† Percent of Grade 4 & 7 students below standard on FSA - Reading	nca	25.4	20.7
† Percent of Grade 4 & 7 students below standard on FSA - Writing	nca	23.8	17.9
† Percent of Grade 4 & 7 students below standard on FSA - Math	nca	33.8	23.4
† Grade 10 Provincial-exam non-completion rate - English	nca	19.1	15.9
† Percent of 18 yr olds who did not graduate	nca	33.4	29.0
Percent of persons ages 25 to 54: without high school completion	nca	16.3	11.1
Percent of persons ages 25 to 64: with university degree or above	10.3	14.3	24.1
<b>Housing</b>			
Percent of households that are renting	28	20.3	30.4
Percent of tenants paying 30 % or more of income towards housing	14	29.7	43.4
Percent of owners paying 30 % or more of income towards housing	16	12.1	22.7
<b>Children and Youth at Risk</b>			
* Children (ages <15) receiving Income Assistance > 1 year	nca	3.6	1.7
* Youth (ages 15 - 24) receiving Income Assistance > 1 yr	nca	1.9	0.9
Children in care rate per 1,000 population, ages 0 – 18	nca	15.9	9.2
Teen pregnancies per 1,000 women ages 15 – 19 (2007-2009)	nca	45.9	26.3
<b>Other Indicators</b>			
Alcohol sales per capita in 2010 (Dollars Spent)	nca	800	790
Alcohol sales per capita in 2010 (Litres Consumed)	nca	123	107
nca = means this level of data detail or data aggregation is “not currently available.”			
EDI = the Early Development Index is an early child development assessment tool. <a href="http://www.earlylearning.ubc.ca">http://www.earlylearning.ubc.ca</a>			
LHA = Local Health Area. In this table we are referring to the Prince George Local Health Area (LHA - 057).			
* Income Assistance figures may be understated as they do not include Aboriginal people who are living on reserve.			
† education measures shown are an average for the period 2007/08 - 2009 /10. The LHA and BC figures were obtained from <a href="http://www.bcstats.gov.bc.ca">BC Stats Socio-economic profiles</a> . Please also see BC Ministry of Education <a href="http://www.bced.gov.bc.ca/reporting/">http://www.bced.gov.bc.ca/reporting/</a>			

## Promoting Health and Delivering High Quality Services

**A good strong start in life** is more likely if infants, children and family members are healthy. Towards this, we consider community characteristics (Determinants of Health), the number of mothers delivering infants and where these infants are being delivered.

This type of information informs services such as prenatal education, parenting skills programs, post delivery follow-ups for moms, immunizations, as well as the screening services intended to detect and address vision, hearing and dental health concerns.

### Number of deliveries by McBride mothers (ten year summary).<sup>12</sup>



### Delivery locations for McBride mothers (five year summary).<sup>13</sup>

Mother's community or Regional District area	Delivery Location: 2005/06 – 2009/10					
	Prince George	Mackenzie	McBride	Other BC Location	Home Births	Total Deliveries
Fraser Fort George (A)	133	0	0	4	2	139
Fraser Fort George (C)	134	0	0	5	0	139
Fraser Fort George (D)	151	0	0	2	1	154
Fraser Fort George (E)	24	0	0	7	0	31
Fraser Fort George (F)	50	0	0	6	0	56
Fraser Fort George (G)	18	0	0	2	0	20
Fraser Fort George (H)	4	0	0	5	0	9
Kwadacha	38	0	0	0	0	38
Mackenzie (DM)	198	42	0	11	0	251
McBride (VL)	41	0	11	6	0	58 *
Valemount (VL)	10	0	2	16	1	29
Prince George (City)	4,335	1	0	106	59	4,501
Total Deliveries	5,136	43	13	170	63	5,425

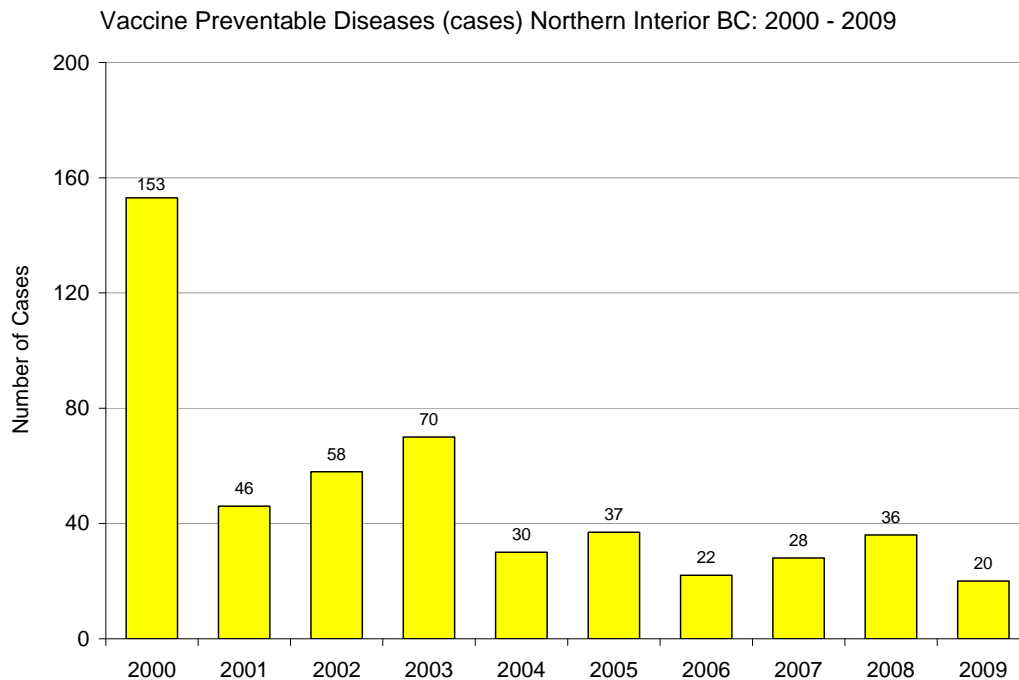
\* There were an additional 14 deliveries in Alberta by mothers from McBride.<sup>14</sup>

## Promoting Health and Delivering High Quality Services

**Immunizations** are some of the best health investments that we can make. Along with better sanitation and clean drinking water, immunizations have been responsible for the huge increases in life expectancy that we have seen around the world.<sup>15, 16</sup>

Because they are such a good investment and the protection they provide to individuals and communities as a whole is so important, we actively monitor whether certain target populations are fully immunized. For example, we know that the percent of 2 year old children in the McBride area, who are fully immunized, is 78.9%.<sup>17</sup>

**Vaccine Preventable Diseases** are illnesses that may have been avoided if individuals and communities were sufficiently immunized. These cases are summarized below.



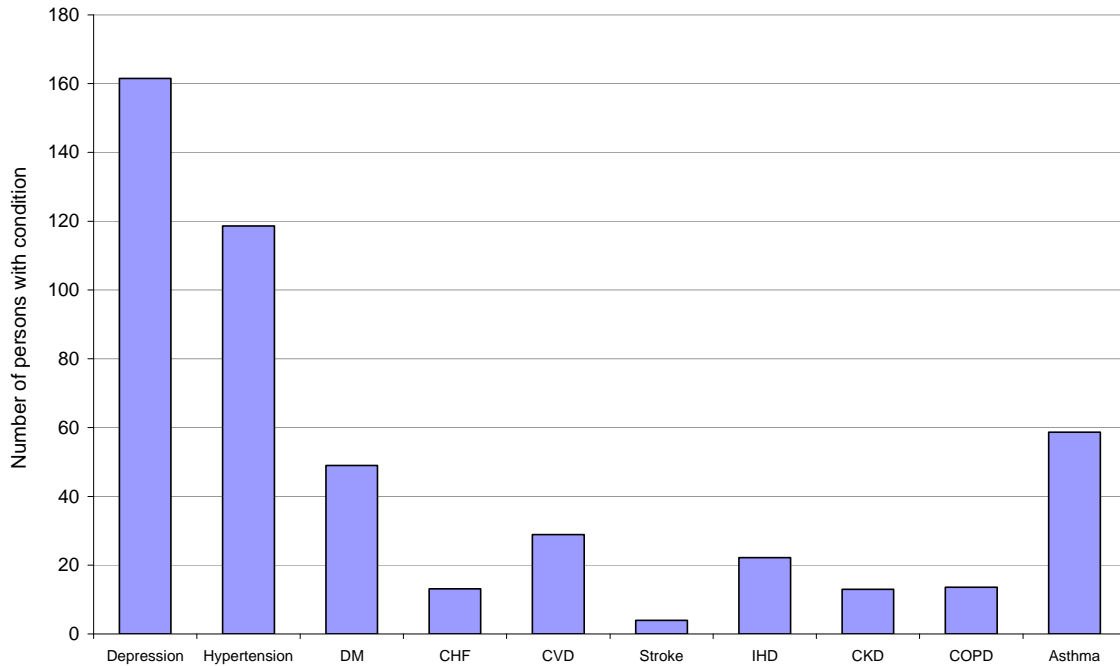
Vaccine Preventable Diseases (cases) in Northern Interior BC: 2000 - 2009 <sup>18</sup>											
Community	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Total
Burns Lake	0	1	26	1	0	4	0	0	1	2	35
Ft. St. James	3	2	2	0	0	1	3	2	2	0	15
Fraser Lake	0	0	0	5	0	1	0	0	1	0	7
Mackenzie	1	0	0	1	0	0	1	0	0	1	4
McBride	0	1	0	0	0	0	0	0	0	0	1
Prince George	129	35	26	52	26	22	17	19	31	13	370
Quesnel	18	6	1	5	4	9	1	4	1	4	53
Valemount	0	0	0	4	0	0	0	0	0	0	4
Vanderhoof	2	1	3	2	0	0	0	3	0	0	11
<b>Total</b>	<b>153</b>	<b>46</b>	<b>58</b>	<b>70</b>	<b>30</b>	<b>37</b>	<b>22</b>	<b>28</b>	<b>36</b>	<b>20</b>	<b>500</b>

## Promoting Health and Delivering High Quality Services

We know that many factors influence our health. Our choices in lifestyle and towards a handful of well known risk factors: tobacco use; physical inactivity; poor dietary choices; obesity; inappropriate alcohol and drug use; certain sexual activities; and, excessive sun exposure can greatly determine whether we remain healthy and free from certain types of cancers and other chronic illnesses. <sup>19, 20, 21, 22</sup>

### Chronic Disease Estimates

Estimated prevalence (number of existing cases) of selected chronic conditions  
Village of McBride residents: 2009 - 2010



Chronic Disease Estimates for Village of McBride residents: 2009 - 10 <sup>23</sup>			
Selected Chronic Conditions	Existing cases	New cases / yr	Cost / patient / yr
Depression	162	7	\$2,734
Hypertension	119	8	\$4,236
Diabetes	49	3	\$5,342
Congestive Heart Failure (CHF)	13	2	\$12,944
Cardiovascular Disease (CVD)	29	3	\$8,901
Stroke	4	1	\$10,396
Ischemic Heart Disease (IHD)	22	2	\$7,583
Chronic Kidney Disease (CKD)	13	2	\$12,019
COPD	14	2	\$9,500
Asthma	59	3	\$1,417

These community level estimates are based upon each community's relative share of the total Local Health Area (LHA) population and reflect what "might be expected" at the community level, given the known experience of the larger LHA.

## Promoting Health and Delivering High Quality Services

**Healthy and independent** northerners is what we want to see when we look around northern BC communities. Indeed, that is a large part of what we do see. However, we know that our population is aging very quickly and that with increasing age there often comes an accumulation of chronic health conditions that inhibit independence.

Long-term home support and other services provided by northern health intend to keep people healthy and independent. During 2011, there were 856 residents of the northern interior receiving home-support services. Here is a clinical profile of these residents.<sup>24</sup>

<b>Male</b>	36 %	<b>Married</b>	28 %	<b>Aged 75+</b>	72 %
<b>Female</b>	64 %	<b>Widowed</b>	44 %	<b>Aboriginal</b>	6 %
<b>Frequently Noted Health Conditions</b>					
Hypertension	56 %	Depression	27 %	Osteoporosis	22%
Arthritis	46 %	Diabetes	24 %	Chronic Arterial	20 %
<b>Clients with Multiple Health Conditions</b>					
≤ 3 Conditions	28 %	3 - 5 Conditions	37 %	≥5 Conditions	34 %
<b>Clients with Cognitive Impairment (Cognitive Performance Score)</b>					
No impairment	39 %	Borderline /mild	49 %	Mod - Very Severe	12 %
<b>Clients with independence difficulty in 1- 3 daily activities (IADL Difficulty Scale)</b>					
No difficulty	28 %	Some difficulty	22 %	Great difficulty	50 %

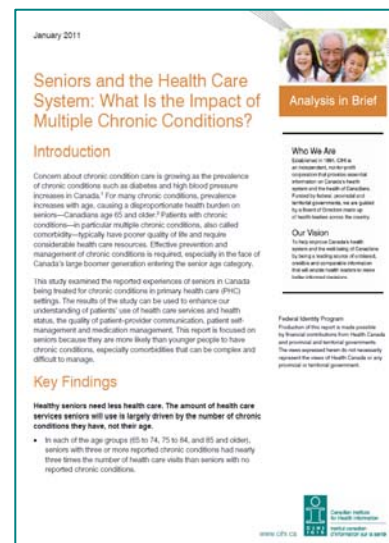
## How do we compare to the rest of Canada?

The most frequently reported chronic conditions affecting Canadian seniors overall are:

- Hypertension (47%)
- Arthritis (27%)
- Hypertension and arthritis (14%)
- Hypertension and heart disease (12%)
- Hypertension and diabetes (11%)

The amount of health care that Canadian seniors need as they age is largely driven by the number of chronic conditions that they have, not their age.<sup>25</sup>

These are just a few of the many findings contained in the report: *Seniors and the Health Care System: What is the Impact of Multiple Chronic Conditions?*



## Promoting Health and Delivering High Quality Services

We employ the best available information related to community characteristics and the determinants of health, population trends, disease occurrences, health needs and health services utilization when assessing services and when planning for the future.

These tables provide a glimpse into some of the inpatient and facility activity.

### Location: where inpatient hospital services were received.<sup>26</sup>

For McBride residents during the five year period: 2005/06 - 2009/10.						
Number of Cases and Days	Location of Hospital Care					
	McBride	Prince George	Other NH	Other BC	OOP	Total
Cases	361	332	11	95	48	847
Days	2,448	2,044	61	510	155	5,218

- Cases These are inpatient cases - client was admitted to the facility.
- Days These are inpatient days - does not include days attributable to ALC.
- Other NH Care was received at a Northern Health facility other than those shown.
- Other BC Care was received at a non Northern Health facility in BC.
- OOP Care was received Out of Province – in most cases this means Alberta.
- ALC Alternate Level of Care. Clients who no longer need acute services and who are waiting to be discharged to a setting more appropriate to their needs.<sup>27</sup>

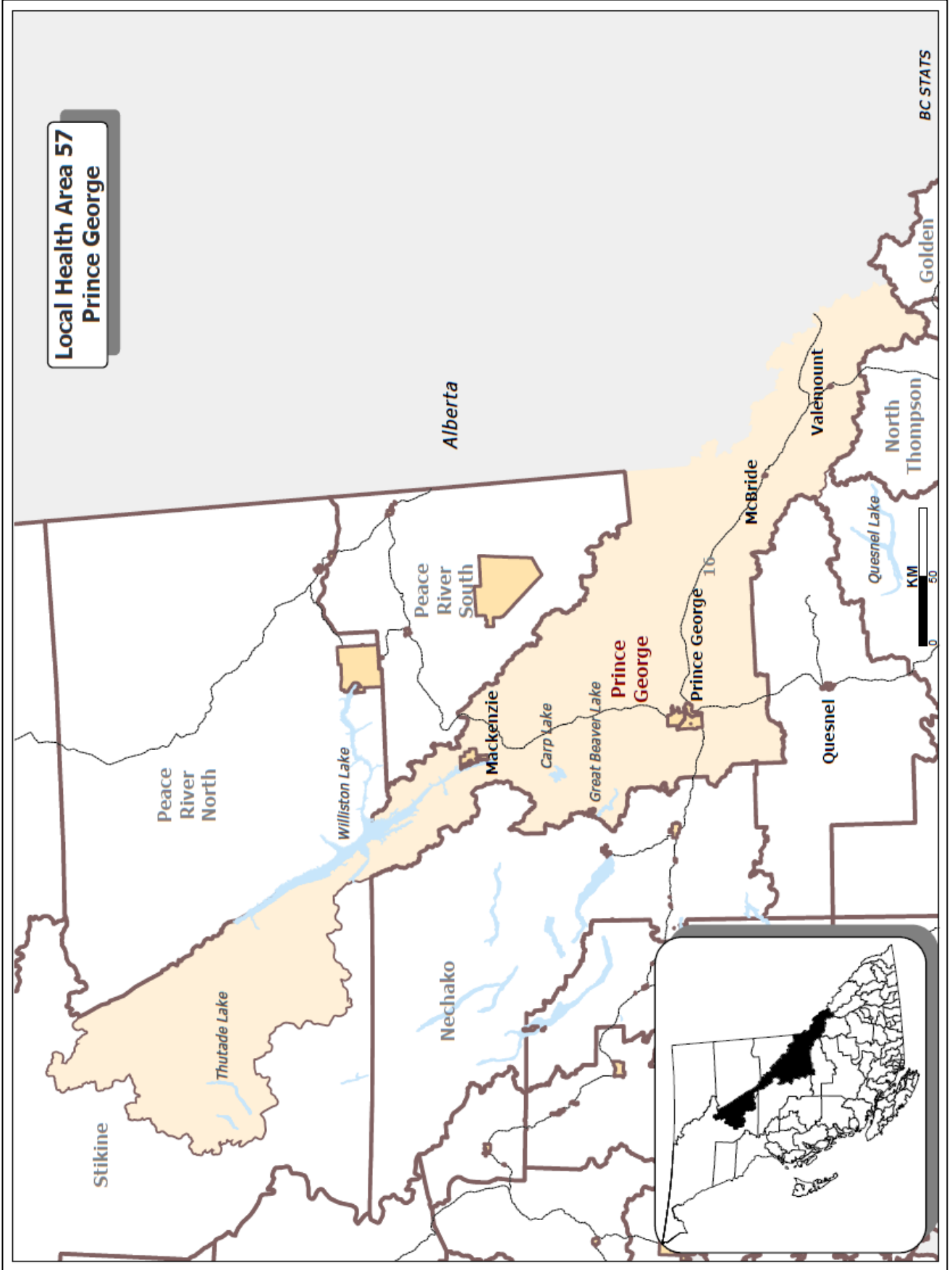
### Facility and Patient Activity (selected measures).<sup>28</sup>

No. 705 - McBride & District Hospital					
Selected Measures	2006/07	2007/08	2008/09	2009/10	2010/11
Acute discharges/deaths total	183	168	121	138	95
Acute in-patient admissions total	175	156	109	134	94
Acute in-patient days (excl. ALC)	1,066	1,085	895	671	682
ALC days total	224	670	203	117	291
Ambulatory visits (excl. E/R).	29	29	28	14	12
Emergency visits (excl. Ambul)	2,142	2,353	2,035	2,062	2,897
In-patient surgical cases total	n/a	n/a	n/a	n/a	n/a
Surgical day care cases total	n/a	n/a	n/a	n/a	n/a
Psychiatry/addiction admissions	n/a	n/a	n/a	n/a	n/a
Psychiatry/addiction I/P days	n/a	n/a	n/a	n/a	n/a
Medical Imaging Tests	2,683	2,186	1,775	1,431	823
Lab Tests (excludes respiratory)	48,847	47,770	49,545	45,868	42,686



**Local Health Area 57  
Prince George**

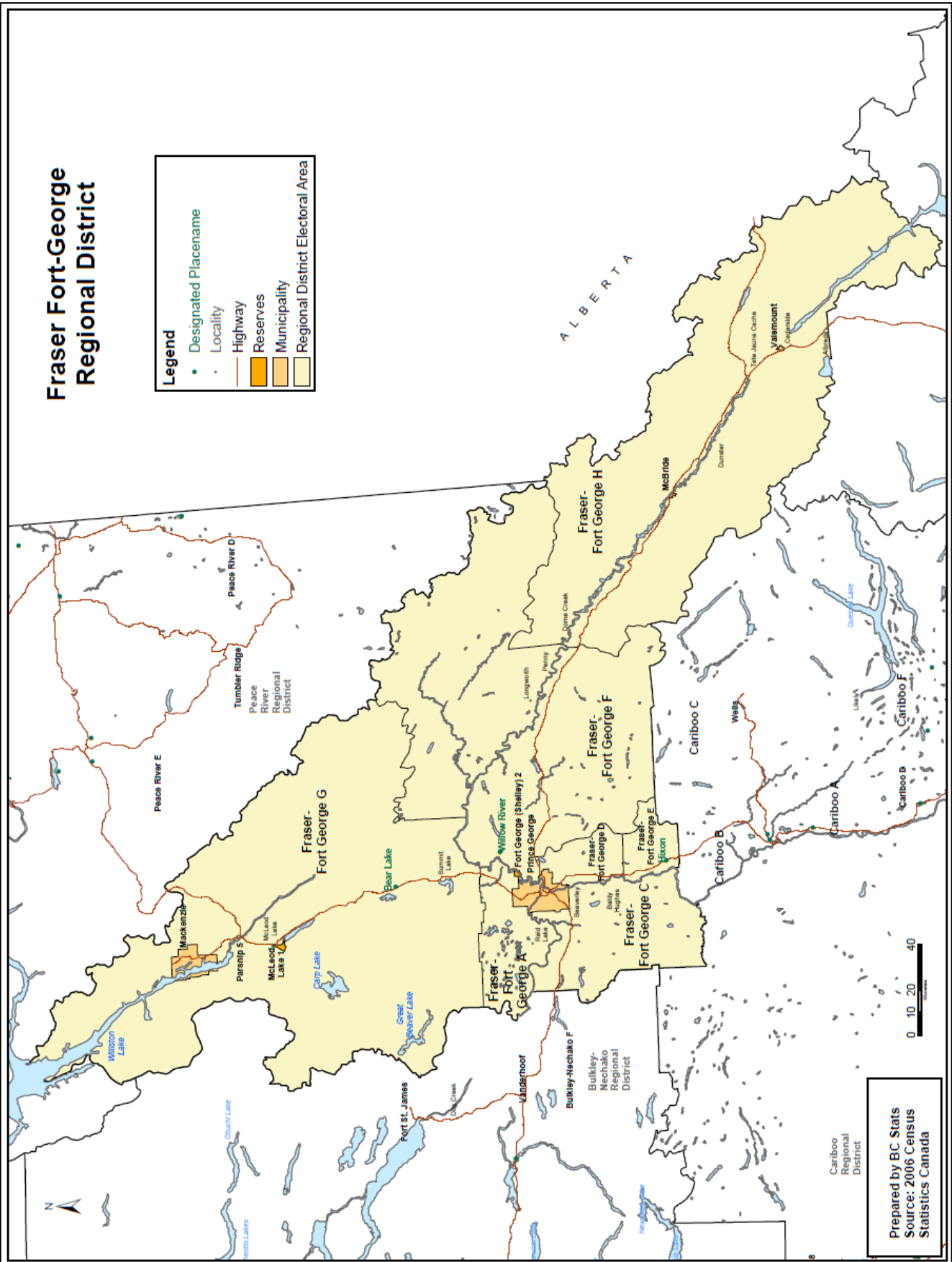
BC STATS



# Fraser Fort-George Regional District

**Legend**

- Designated Placename
- Locality
- Highway
- ▭ Reserves
- ▭ Municipality
- ▭ Regional District Electoral Area



Cariboo Regional District

Prepared by BC Stats  
Source: 2006 Census  
Statistics Canada

## References

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- <sup>1</sup> BC Stats, Community Fact Sheets: <http://www.bcstats.gov.bc.ca/data/dd/facsheet/facsheet.asp>
- <sup>2</sup> BC Stats: Population Estimates for Local Health Areas: PEOPLE 35. <http://www.bcstats.gov.bc.ca/data/pop/popstart.asp>
- <sup>3</sup> Population Estimates for Municipalities: BC Stats; 1996-2006, 2006-2010. <http://www.bcstats.gov.bc.ca/data/pop/pop/estspop.asp#totpop>
- <sup>4</sup> BC Stats: Population Estimates for Regional Districts: PEOPLE 35. <http://www.bcstats.gov.bc.ca/data/pop/popstart.asp>
- <sup>5</sup> BC Vital Statistics Annual Report: 2009. <http://www.vs.gov.bc.ca/stats/annual/index.html>  
This is calendar year data (Jan - Dec). There will be a small mismatch with fiscal year data of Perinatal-Services-BC.
- <sup>6</sup> What Determines Health: Public Health Agency of Canada <http://www.phac-aspc.gc.ca/ph-sp/determinants/index-eng.php>
- <sup>7</sup> Healthy and Productive Canada: Determinants of Health Approach. Senate Committee on Health: <http://www.parl.gc.ca/40/2/parbus/commbus/senate/Com-e/popu-e/rep-e/rephealthjun09-e.pdf>
- <sup>8</sup> Census 2006 Profiles: BC Stats. [http://www.bcstats.gov.bc.ca/data/cen06/profiles/detailed/ch\\_alpha.asp](http://www.bcstats.gov.bc.ca/data/cen06/profiles/detailed/ch_alpha.asp)
- <sup>9</sup> BC Socio-economic profiles; BC Stats: June 2011. <http://www.bcstats.gov.bc.ca/data/sep/index.asp>
- <sup>10</sup> BC figures from BC Stats: [BC Socio-economic profiles](#), [Census 2006 Profiles](#) and / or [PEOPLE 35](#).
- <sup>11</sup> Human Early Learning Partnership; the Early Development Index: a Population Health Perspective. Wave 3. <http://www.earlylearning.ubc.ca/research/initiatives/early-development-instrument/>
- <sup>12</sup> Northern Health Resident Mothers that Delivered a Baby in British Columbia, by Resident Municipality. Prepared for Northern Health by Perinatal Services BC. Request 211011: June 16, 2011.
- <sup>13</sup> Northern Health Resident Mothers that Delivered a Baby in British Columbia, by Resident Municipality. Prepared for Northern Health by Perinatal Services BC. Request 211011: June 16, 2011.
- <sup>14</sup> Alberta Perinatal Health Program. June 2011. Figures are for 2004/05 – 2008/09.
- <sup>15</sup> Immunization: A Report on the Health and Wellbeing of British Columbian. BC Provincial Health Officer, 1998. <http://www.health.gov.bc.ca/pho/pdf/phoannual1998.pdf>
- <sup>16</sup> Technical Assumptions for Population Forecasting in BC: Page 7. BC Stats, July 2009. <http://www.bcstats.gov.bc.ca/data/pop/pop/popproj.asp>
- <sup>17</sup> 2008 Cohort (2 year olds) Date of Birth Jan 01, 2008 to Dec 30, 2008. Up-to-date for all vaccines: (new definitions). Data extracted Jan 17, 2011: MMP for JMH: Northern Health-Public and Preventive Health: June 2011.
- <sup>18</sup> Vaccine Preventable Disease: Northern Health-Public Health / Preventive Public Health: May 2010.
- <sup>19</sup> Population Patterns of Chronic Health Conditions in Canada: Health Council of Canada. <http://healthcouncilcanada.ca>
- <sup>20</sup> The Cost of Chronic Disease in Canada: GPI Atlantic. 2004. <http://gpiatlantic.org/pdf/health/chroniccanada.pdf>
- <sup>21</sup> Prevention: British Columbia Cancer Agency. 2009. <http://www.bccancer.bc.ca/PPI/Prevention/default.htm>
- <sup>22</sup> Hospitalizations: Counts and Rates Attributable to Alcohol, Tobacco, and Illicit Drugs for BC Health Authorities. BC Centre for Addictions Research: AOD project. March 2010. <http://carbc.ca/AODMonitoring/tabid/541/Default.aspx>
- <sup>23</sup> BC Ministry of Health Services: Chronic Conditions according to LHA. Project 2011\_005\_PHC
- <sup>24</sup> InterRAI Client Assessment Summary: Northern Health. Summary for March 31, 2011. Data extracted May 28, 2011. Northern Health: Home and Community Care Services.
- <sup>25</sup> Seniors and the Health Care System: What is the Impact of Multiple Chronic Conditions? CIHI, January 2011. [http://secure.cihi.ca/cihiweb/products/air-chronic\\_disease\\_aib\\_en.pdf](http://secure.cihi.ca/cihiweb/products/air-chronic_disease_aib_en.pdf)
- <sup>26</sup> Hospitalizations by patient's home community 2003/ 04 to 2009/ 10: Special Analysis by the BC Ministry of Health for Northern Health. Project No. 2010\_0289. Revised and Updated: July, 2011.
- <sup>27</sup> Alternate Level of Care in Canada: CIHI. <https://secure.cihi.ca/estore/productSeries.htm?pc=PCC456>
- <sup>28</sup> Northern Facility Activity Summaries from Northern Health Finance: Executive Summary Reports (ESR). Figures are P13 for previous year. Lab and Medical Imaging prepared separately: July 2011.