



Alberta Reproductive Health Pregnancies & Births

Surveillance Report
Table Update 2009

**Government
of Alberta** ■

Alberta ■

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1 Executive Summary

Pregnancies

Induced Abortions

- The induced abortion rate (per 1,000 women aged 15-49) was 13.7 in 2008, similar to the 2007 rate of 13.6. The induced abortion rate was higher between 2006 and 2008 than in previous years, reflecting increased fertility rates during those years.

Deliveries

- The induction of labour rate was 25.6 (per 100 hospital deliveries) in 2007. The rate declined from a high of 29.2 in 2004. Medical inductions of labour are more frequent than surgical inductions or medical and surgical combined inductions.
- The cesarean section rate was 27.7 (per 100 hospital deliveries) in 2007, with 12,886 cesarean sections performed on Alberta residents in that year. The cesarean section rate showed a steady pattern of increase over 10 years.
- In 2007, 11.5 out of every 100 hospital deliveries involved vacuum extraction and 5.6 involved forceps extraction. These rates were stable between 2005 and 2007, although rates varied widely between regions.

Maternal Age

- The average age at childbirth was 29.3 years in Alberta in 2008. This was an increase from the average of 29.1 years which occurred each year from 2004 to 2007. Average maternal age was highest in Calgary Health Region, followed by Capital Health Region. Alberta's lowest average maternal age occurred in RHAs in the northern parts of the province.

Births

Live Births

- There were 50,164 live births in 2008, the highest annual total in Alberta's history. The number of live births in 2008 was 3.7% higher than the 48,364 live births occurring in 2007. Between 2005 and 2008, live births increased 20.6%.

Fertility Rates

- In 2008, the general fertility rate (number of live births per 1,000 women aged 15-49 in a given year) was 55.0. This rate increased from 2002, with marked increases in 2006 and 2007.
- The total fertility rate (number of live births per 1,000 women aged 15-49 over a lifetime) was 1,931 in 2008, representing an average of 1.9 live births per Albertan woman in her lifetime (assuming current fertility rates continue). In general, lower rates were found in Capital and Calgary Health regions compared with other areas.

Birth Outcomes

Birth Weight

- The small-for-gestational-age rate was 7.9 (per 100 live singleton births) in 2008. An increasing trend began in 2004. The highest rates were in Palliser and Calgary regions, with lowest rates in Peace Country and Northern Lights RHAs.
- In 2008, there were 3,402 low birth weight live births in Alberta, for a rate of 6.8 (per 100 live births). This was lower than the rate of 7.0 in 2006.
- The large-for-gestational-age rate was 11.0 (per 100 live singleton births) in 2008. This rate was stable from 2005 to 2008, following higher rates from 2000 to 2004.
- In 2008, the high birth weight rate was 11.0 (per 100 live births), down from a high of 12.9 in 2000 and 2001.

Live Births (continued)*Preterm Births*

- The preterm birth rate was 8.6 (per 100 live births) in 2008. This rate was down from the high of 9.1 in 2004 and 2005.

Multiple Births

- Almost all births are singletons (one baby), but a small percentage of births are multiple births (twins, triplets, etc.). There were 1,733 multiple live births in Alberta in 2008, for a rate of 3.5 (per 100 live births). The multiple birth rate fluctuated between 3.2 and 3.4 from 2002 to 2007.

Mortality*Perinatal and Neonatal Mortality*

- The neonatal mortality rate (per 1,000 live births) was 4.4 for 2006 to 2008 combined.

Post-Neonatal Mortality

- The post-neonatal mortality rate for 2006 to 2008 combined was 1.6 (per 1,000 live births).

Infant Mortality

- The infant mortality rate was 6.0 (per 1,000 live births) for 2006 to 2008 combined (there were 853 infant deaths over three years).

2 Introduction

Alberta Reproductive Health: Pregnancies and Births Table Update 2009 follows the Alberta Reproductive Health: Pregnancies and Births 2009 full report. This report is an update of selected indicators, based on data for the 10-year period from 1999 to 2008, and includes new Alberta data for 2008 (data from Canadian Institute of Health Information Inpatient Files are only available to 2007).

Topic Areas

- Induced abortions
- Deliveries (labour inductions, cesarean sections, forceps deliveries, vacuum extractions)
- Maternal age
- Live births
- Fertility rates
- Birth outcomes (birth weight categories, preterm birth, multiple births)
- Mortality (neonatal, post-neonatal, and infant deaths)

Data Sources

- Vital Statistics Birth Registration Files
- Vital Statistics Death Registration Files
- Canadian Institute of Health Information Inpatient Files
- Fee-for-Service Claims Files
- Alberta Health Care Insurance Plan Stakeholder Registration File

Methodology Notes

“Residence RHA” refers to the regional health authority in which the mother resided at the time of the relevant event. All analyses reflect December 2003 RHA boundaries, in effect for the period during which the included data were collected. Provincial rates include Alberta residents with an ‘unknown’ regional health authority (RHA) code. Only Alberta residents are included in analyses unless otherwise stated.

RHA 5 contains the city of Lloydminster, which is on the Alberta-Saskatchewan border. The hospital in Lloydminster is on the Saskatchewan side of the border, and births and services received at this hospital by Alberta residents are recorded in Saskatchewan’s administrative databases. These data are not included in this report. This means that a substantial portion (approximately one quarter) of births and services occurring to Alberta residents in RHA 5 are missing from the tables in this report. Interpretation of RHA 5 data should be carried out with caution. Of particular concern are measures in which the denominator is based on the population of RHA 5, rather than the number of births occurring in RHA 5. Even when the denominator is the number of births occurring in RHA 5, there is the opportunity for bias, as RHA 5 residents that have births at Lloydminster Hospital may be different from RHA 5 residents that have births within RHA 5.

Caution should always be exercised in interpreting rates based on small numbers. Data may be combined across three-year periods (such as 2006 to 2008) in order to increase reliability of rates.

Populations used for the calculations of some rates are derived from the Alberta Health Care Insurance Plan Registration Files. Population figures used in calculations in this report are in Tables 16 and 17. All populations are by calendar year, and were based on mid-year estimates (June 30).

Beginning with April 2002 data, new coding systems for classification of diseases (International Statistical Classification of Diseases and Related Health Problems Tenth Revision, Canada (ICD-10-CA)) and

interventions (Canadian Classification of Health Interventions (CCI)) are in use for Hospital Inpatient Files and the Ambulatory Care Classification System files. For data prior to April 2002, the International Classification of Disease – 9th Revision – Clinical Modification (ICD-9-CM) Codes were used for these databases (these codes are still used in the Fee-for-Service Claims files). Because the coding systems are different, there may be discrepancies between 2002 data and data for prior years. Comparisons of data coded with ICD-10-CA or CCI and those coded with ICD-9-CM should be undertaken with caution.

Reporting tends to improve with time, so time trends must be interpreted with caution for those datasets in which reporting variability is possible. There may also be regional differences in reporting and coding for those data that are acquired from the health regions.

There may be access issues that apply to more remote regions of the province, with some services being less available in those areas. Any known discrepancies in access should be taken into account when interpreting regional rates.

The reader is reminded that population statistics cannot be applied to individuals. Not every member of a population will exhibit the characteristics that define the population.

Because of differences in definitions and dates of extracting data for analyses, the statistics in this report may not be the same as those previously published by Alberta Health and Wellness.

Please refer to Alberta Reproductive Health: Pregnancies and Births Surveillance Report 2009 report for definitions, descriptions of data sources, data limitations, further methodology notes, and background information on the data described here. The report can be found at <http://www.health.alberta.ca/newsroom/pub-pregnancy-birth.html>

3 List of Tables

Table 1	Selected Indicators for Pregnancies and Births, Alberta, 1999 to 2008
Table 2	Selected Birth Outcomes by Residence RHA, Alberta, 2006 to 2008 Combined
Table 3	Induced Abortions and Rates by Year and Residence RHA, Alberta, 1999 to 2008
Table 4	Labour Inductions and Rates by Residence RHA and Year, Alberta, 2005 to 2007
Table 5	Cesarean Section, Forceps, and Vacuum Extraction Deliveries and Rates by Year and Residence RHA, Alberta, 2005 to 2007
Table 6	Mean Maternal Age by Residence RHA, Alberta, 1999 to 2008
Table 7	Live Births, General Fertility Rate, Total Fertility Rate, and Crude Fertility Rate by Year and Residence RHA, Alberta, 1999 to 2008
Table 8	Singleton Small-for-Gestational-Age Live Births and Rates by Year and Residence RHA, Alberta, 1999 to 2008
Table 9	Low Birth Weight Births and Rates by Year and Residence RHA, Alberta, 1999 to 2008
Table 10	Singleton Large-for-Gestational-Age Live Births and Rates by Year and Residence RHA, Alberta, 1999 to 2008
Table 11	High Birth Weight Births and Rates by Year and Residence RHA, Alberta, 1999 to 2008
Table 12	Preterm Births and Rates by Year and Residence RHA, Alberta, 1999 to 2008
Table 13	Multiple Births and Rates by Year and Residence RHA, Alberta, 1999 to 2008
Table 14	Neonatal, Post-Neonatal, and Infant Deaths and Rates by Year, Alberta, 1999 to 2008
Table 15	Neonatal, Post-Neonatal, and Infant Deaths and Rates by Residence RHA, Alberta, 2006 to 2008 Combined
Table 16	Women 15 - 49 by Residence RHA, Alberta, 1999 to 2008
Table 17	Women 10 - 49 by Age Group, Alberta, 1999 to 2008

Table 1 Selected Indicators for Pregnancies and Births, Alberta, 1999 to 2008

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Live Births	37,778	36,625	37,226	38,293	39,868	40,292	41,587	44,659	48,364	50,164
Induced Abortion Rate (per 1,000 Women Aged 15-49)	12.8	13.1	12.9	13.0	12.9	13.0	12.5	13.2	13.6	13.7
Total Labour Induction Rate ¹ (per 100 Hospital Deliveries)	25.4	25.9	27.0	25.8	29.0	29.2	29.1	26.8	25.6	-
Cesarean Section Rate (per 100 Hospital Deliveries)	19.1	20.2	22.5	23.2	24.1	25.4	26.1	26.7	27.7	-
Mean Maternal Age at Delivery	28.7	28.8	28.8	28.9	29.0	29.1	29.1	29.1	29.1	29.3
General Fertility Rate (per 1,000 Women Aged 15-49)	47.7	45.7	45.6	46.0	47.4	47.6	48.7	51.3	54.0	55.0
Total Fertility Rate (per 1,000 Women Aged 15-49)	1,717	1,661	1,670	1,687	1,736	1,740	1,777	1,855	1,923	1,931
Crude Birth Rate (per 1,000 Population)	12.9	12.3	12.3	12.4	12.7	12.7	12.9	13.5	14.2	14.4
Low Birth Weight Rate (per 100 Live Births)	5.9	6.1	6.1	6.5	6.3	6.4	6.6	7.0	6.7	6.8
Small for Gestational Age Rate (per 100 Live Singleton Births)	8.3	7.9	7.8	7.6	7.6	7.7	7.9	8.1	8.1	7.9
High Birth Weight Rate (per 100 Live Births)	12.6	12.9	12.9	12.5	12.1	11.6	11.2	11.2	11.0	11.0
Large for Gestational Age Rate (per 100 Live Singleton Births)	11.6	12.3	12.5	12.1	11.9	11.9	11.1	11.1	11.0	11.0
Preterm Birth Rate (per 100 Live Births)	7.8	8.5	8.3	8.6	8.8	9.1	9.1	8.9	8.4	8.6
Multiple Birth Rate (per 100 Live Births)	2.7	3.0	3.1	3.2	3.2	3.4	3.2	3.2	3.3	3.5
Neonatal Mortality Rate (per 1,000 Live Births)	3.7	4.1	3.9	5.2	4.9	4.4	5.0	4.0	4.6	4.5
Post-Neonatal Mortality Rate (per 1,000 Live Births)	2.0	2.4	1.7	2.0	1.8	1.3	1.7	1.6	1.4	1.7
Infant Mortality Rate (per 1,000 Live Births)	5.7	6.5	5.6	7.3	6.7	5.8	6.7	5.6	6.0	6.2

Sources: Vital Statistics, Birth and Death Files, Department of Government Services, July 2009 release.

Fee-for-Services Claims Files, Alberta Health and Wellness.

Canadian Institute of Health Information Inpatient Files, Alberta Health and Wellness.

Alberta Health Care Insurance Plan Registration File, Alberta Health and Wellness.

Notes: 1. Labour inductions were under-reported from April 2002 to March 2003.

Data include Alberta residents only.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 2 Selected Birth Outcomes by Residence RHA, Alberta, 2006 to 2008 Combined

Residence RHA	Singleton Live Births	Small for Gestational Age ¹		Large for Gestational Age ¹		Live Births	Preterm ²		Multiple Birth ²	
		Cases	Rate	Cases	Rate		Cases	Rate	Cases	Rate
Chinook	6,926	505	7.3	837	12.1	7,147	569	8.0	221	3.1
Palliser	4,342	372	8.6	490	11.3	4,469	298	6.7	127	2.8
Calgary	50,882	4,705	9.2	4,534	8.9	52,696	4,785	9.1	1,814	3.4
David Thompson	12,948	940	7.3	1,611	12.4	13,341	1,091	8.2	393	2.9
East Central	3,021	199	6.6	356	11.8	3,115	252	8.1	94	3.0
Capital	40,886	3,177	7.8	4,632	11.3	42,404	3,817	9.0	1,518	3.6
Aspen	7,829	512	6.5	1,115	14.2	8,061	638	7.9	232	2.9
Peace Country	6,944	414	6.0	996	14.3	7,139	555	7.8	195	2.7
Northern Lights	4,656	273	5.9	702	15.1	4,811	337	7.0	155	3.2
Alberta	138,438	11,097	8.0	15,273	11.0	143,187	12,343	8.6	4,749	3.3

Source: Vital Statistics, Birth File, Department of Government Services, July 2009 release.

Notes: 1. Small- and large-for-gestational-age rates are calculated per 100 live singleton births.

2. Preterm and multiple birth rates are calculated per 100 live births.

Alberta totals include unknown RHAs.

Data include Alberta residents only.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 3 Induced Abortions and Rates by Year and Residence RHA, Alberta, 1999 to 2008

Induced abortions	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	300	285	288	282	275	338	268	302	294	315
Palliser	176	255	220	232	225	215	217	254	281	255
Calgary	4,464	4,530	4,596	4,668	4,633	4,686	4,532	4,862	5,214	5,234
David Thompson	648	725	745	765	793	809	781	834	866	919
East Central	163	179	176	194	175	183	167	206	222	218
Capital	3,417	3,555	3,540	3,659	3,691	3,739	3,595	3,833	4,056	4,350
Aspen	431	410	426	476	494	478	497	528	565	537
Peace Country	316	349	310	330	326	379	403	409	429	429
Northern Lights	188	188	210	168	213	181	240	258	279	280
Alberta	10,103	10,476	10,511	10,774	10,825	11,008	10,700	11,486	12,206	12,537

Rate (per 1,000 women 15-49)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	8.1	7.6	7.7	7.5	7.3	9.0	7.1	8.0	7.6	8.0
Palliser	7.4	10.6	9.0	9.3	9.1	8.6	8.6	10.0	10.9	9.8
Calgary	15.4	15.4	15.2	15.1	14.7	14.7	14.0	14.7	15.3	15.0
David Thompson	9.3	10.3	10.4	10.5	10.8	10.9	10.5	11.0	11.2	11.7
East Central	6.3	6.9	6.7	7.4	6.7	7.0	6.4	7.9	8.3	8.0
Capital	13.6	14.0	13.8	14.0	14.0	14.1	13.4	14.1	14.5	15.2
Aspen	9.7	9.2	9.5	10.5	11.0	10.7	11.2	11.9	12.5	11.8
Peace Country	9.4	10.3	9.1	9.5	9.4	10.8	11.4	11.3	11.5	11.3
Northern Lights	10.8	10.6	11.5	8.7	10.6	8.8	11.4	12.0	12.2	11.7
Alberta	12.8	13.1	12.9	13.0	12.9	13.0	12.5	13.2	13.6	13.7

Sources: Vital Statistics, Birth and Stillbirth Files, Department of Government Services, July 2009 release.

Fee-for-Services Claims Files, Alberta Health and Wellness.

Alberta Health Care Insurance Plan Registration File, Alberta Health and Wellness.

Notes: Alberta totals include unknown RHAs.

Data include Alberta residents only.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 4 Labour Inductions and Rates by Residence RHA and Year, Alberta, 2005 to 2007

<u>2005</u>	Chinook	Palliser	Calgary	David Thompson	East Central	Capital	Aspen	Peace Country	Northern Lights	Alberta
Hospital deliveries	2,038	1,302	14,830	3,746	1,229	11,635	2,341	2,002	1,326	40,449
Total inductions ¹	583	244	4,229	874	387	3,335	1,216	508	406	11,782
Total induction rate (per 100 hospital deliveries)	28.6	18.7	28.5	23.3	31.5	28.7	51.9	25.4	30.6	29.1
Medical inductions	484	100	1,708	573	199	2,010	411	403	237	6,125
Medical induction rate (per 100 hospital deliveries)	23.7	7.7	11.5	15.3	16.2	17.3	17.6	20.1	17.9	15.1
Surgical inductions	50	5	329	37	31	209	41	50	42	794
Surgical induction rate (per 100 hospital deliveries)	2.5	0.4	2.2	1.0	2.5	1.8	1.8	2.5	3.2	2.0
Combined inductions	11	21	1,557	177	122	650	65	29	102	2,734
Combined inductions rate (per 100 hospital deliveries)	0.5	1.6	10.5	4.7	9.9	5.6	2.8	1.4	7.7	6.8

<u>2006</u>	Chinook	Palliser	Calgary	David Thompson	East Central	Capital	Aspen	Peace Country	Northern Lights	Alberta
Hospital deliveries	2,181	1,336	15,550	4,105	1,322	12,558	2,470	2,201	1,381	43,104
Total inductions ¹	586	217	4,309	931	405	3,333	892	519	375	11,567
Total induction rate (per 100 hospital deliveries)	26.9	16.2	27.7	22.7	30.6	26.5	36.1	23.6	27.2	26.8
Medical inductions	496	71	1,932	720	225	1,987	405	418	249	6,503
Medical induction rate (per 100 hospital deliveries)	22.7	5.3	12.4	17.5	17.0	15.8	16.4	19.0	18.0	15.1
Surgical inductions	43	5	404	42	35	223	38	51	19	860
Surgical induction rate (per 100 hospital deliveries)	2.0	0.4	2.6	1.0	2.6	1.8	1.5	2.3	1.4	2.0
Combined inductions	14	11	1,274	113	105	697	67	33	84	2,398
Combined inductions rate (per 100 hospital deliveries)	0.6	0.8	8.2	2.8	7.9	5.6	2.7	1.5	6.1	5.6

<u>2007</u>	Chinook	Palliser	Calgary	David Thompson	East Central	Capital	Aspen	Peace Country	Northern Lights	Alberta
Hospital deliveries	2,351	1,530	16,855	4,351	1,431	13,864	2,619	1,890	1,570	46,461
Total inductions ¹	605	225	4,665	1,011	410	3,479	669	484	348	11,896
Total induction rate (per 100 hospital deliveries)	25.7	14.7	27.7	23.2	28.7	25.1	25.5	25.6	22.2	25.6
Medical inductions	512	89	2,146	765	226	2,237	447	388	256	7,066
Medical induction rate (per 100 hospital deliveries)	21.8	5.8	12.7	17.6	15.8	16.1	17.1	20.5	16.3	15.2
Surgical inductions	48	7	511	47	54	131	33	33	33	897
Surgical induction rate (per 100 hospital deliveries)	2.0	0.5	3.0	1.1	3.8	0.9	1.3	1.7	2.1	1.9
Combined inductions	13	7	1,298	148	108	593	72	56	42	2,337
Combined inductions rate (per 100 hospital deliveries)	0.6	0.5	7.7	3.4	7.5	4.3	2.7	3.0	2.7	5.0

Source: Canadian Institute of Health Information Inpatient Files, Alberta Health and Wellness.

Notes: 1. From April 2003 onward, outpatient inductions were included in total inductions but were not categorized as medical, surgical, or combined. Consequently, "total inductions" is greater than the sum of medical, surgical, and combined.

Data include Alberta residents only.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 5 Cesarean Section, Forceps, and Vacuum Extraction Deliveries and Rates by Year and Residence RHA, Alberta, 2005 to 2007

	Chinook	Palliser	Calgary	David Thompson	East Central	Capital	Aspen	Peace Country	Northern Lights	Alberta
2005										
Hospital deliveries	2,038	1,302	14,830	3,746	1,229	11,635	2,341	2,002	1,326	40,449
Cesarean section cases	459	308	4,118	987	333	3,005	584	453	304	10,551
Cesarean section rate (per 100 hospital deliveries)	22.5	23.7	27.8	26.3	27.1	25.8	24.9	22.6	22.9	26.1
Forceps deliveries	112	19	676	179	88	901	89	36	103	2,203
Forceps delivery rate (per 100 hospital deliveries)	5.5	1.5	4.6	4.8	7.2	7.7	3.8	1.8	7.8	5.4
Vacuum extraction deliveries	203	81	2,390	170	174	847	239	161	172	4,437
Vacuum extraction rate (per 100 hospital deliveries)	10.0	6.2	16.1	4.5	14.2	7.3	10.2	8.0	13.0	11.0
2006										
Hospital deliveries	2,181	1,336	15,550	4,105	1,322	12,558	2,470	2,201	1,381	43,104
Cesarean section cases	535	338	4,361	1,137	323	3,287	627	523	381	11,512
Cesarean section rate (per 100 hospital deliveries)	24.5	25.3	28.0	27.7	24.4	26.2	25.4	23.8	27.6	26.7
Forceps deliveries	109	28	719	209	97	991	81	37	127	2,398
Forceps delivery rate (per 100 hospital deliveries)	5.0	2.1	4.6	5.1	7.3	7.9	3.3	1.7	9.2	5.6
Vacuum extraction deliveries	193	87	2,699	186	149	932	253	150	244	4,893
Vacuum extraction rate (per 100 hospital deliveries)	8.8	6.5	17.4	4.5	11.3	7.4	10.2	6.8	17.7	11.4
2007										
Hospital deliveries	2,351	1,530	16,855	4,351	1,431	13,864	2,619	1,890	1,570	46,461
Cesarean section cases	606	373	4,866	1,235	387	3,784	740	451	444	12,886
Cesarean section rate (per 100 hospital deliveries)	25.8	24.4	28.9	28.4	27.0	27.3	28.3	23.9	28.3	27.7
Forceps deliveries	125	23	750	254	118	1,104	85	38	117	2,614
Forceps delivery rate (per 100 hospital deliveries)	5.3	1.5	4.4	5.8	8.2	8.0	3.2	2.0	7.5	5.6
Vacuum extraction deliveries	174	127	2,982	197	163	978	256	176	300	5,353
Vacuum extraction rate (per 100 hospital deliveries)	7.4	8.3	17.7	4.5	11.4	7.1	9.8	9.3	19.1	11.5

Source: Canadian Institute of Health Information Inpatient Files, Alberta Health and Wellness.

Notes: Data include Alberta residents only.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 6 Mean Maternal Age by Residence RHA, Alberta, 1999 to 2008

Mean maternal age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	27.4	27.8	27.6	27.7	27.7	27.8	27.9	27.8	27.6	27.8
Palliser	27.4	27.4	27.6	27.5	27.8	27.7	27.8	27.6	27.6	28.0
Calgary	29.8	29.8	30.0	30.0	30.2	30.2	30.4	30.4	30.4	30.5
David Thompson	27.4	27.5	27.4	27.7	27.5	27.7	27.6	27.5	27.7	27.8
East Central	28.4	28.4	28.5	28.6	28.3	28.4	28.3	28.5	28.0	28.0
Capital	29.0	29.0	29.1	29.1	29.3	29.3	29.3	29.4	29.4	29.5
Aspen	27.0	27.3	27.3	27.4	27.4	27.2	27.4	27.2	27.3	27.3
Peace Country	26.9	26.9	27.1	27.1	27.0	27.3	27.2	27.1	27.3	27.4
Northern Lights	26.6	27.0	27.1	26.9	27.4	27.3	27.3	27.6	27.5	27.6
Alberta	28.7	28.8	28.8	28.9	29.0	29.1	29.1	29.1	29.1	29.3

Source: Vital Statistics, Birth File, Department of Government Services, July 2009 release.

Notes: Data include Alberta residents only.

Alberta totals include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 7 Live Births, General Fertility Rate, Total Fertility Rate, and Crude Fertility Rate by Year and Residence RHA, Alberta, 1999 to 2008

Live births	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	2,064	1,945	1,960	1,969	2,093	2,047	2,106	2,243	2,422	2,482
Palliser	1,232	1,221	1,230	1,226	1,258	1,278	1,349	1,364	1,579	1,526
Calgary	12,990	13,064	13,109	13,588	14,473	14,606	15,432	16,342	17,721	18,633
David Thompson	3,648	3,474	3,482	3,616	3,727	3,786	3,824	4,253	4,477	4,611
East Central	961	908	882	971	898	954	925	992	1,042	1,081
Capital	11,320	10,790	11,054	11,293	11,702	11,915	12,106	13,131	14,407	14,866
Aspen	2,540	2,285	2,404	2,408	2,386	2,396	2,386	2,583	2,704	2,774
Peace Country	1,947	1,818	1,907	1,921	2,037	1,959	2,075	2,298	2,377	2,464
Northern Lights	1,070	1,116	1,192	1,299	1,292	1,348	1,384	1,453	1,635	1,723
Alberta	37,778	36,625	37,226	38,293	39,868	40,292	41,587	44,659	48,364	50,164
General Fertility Rate (per 1,000 women 15-49)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	55.6	52.0	52.3	52.6	55.8	54.4	56.0	59.3	62.8	63.4
Palliser	52.1	50.9	50.2	49.3	50.7	51.1	53.6	53.9	61.2	58.5
Calgary	44.9	44.3	43.4	43.9	46.0	45.9	47.8	49.4	52.1	53.6
David Thompson	52.3	49.1	48.5	49.5	50.7	51.1	51.3	56.3	57.7	58.7
East Central	37.4	35.1	33.8	36.9	34.1	36.4	35.3	38.0	38.9	39.9
Capital	45.1	42.6	43.0	43.2	44.3	44.8	45.3	48.3	51.4	52.0
Aspen	57.2	51.5	53.7	53.4	53.3	53.8	53.9	58.0	59.7	60.8
Peace Country	57.8	53.7	55.9	55.5	58.7	55.9	58.7	63.4	63.7	64.9
Northern Lights	61.4	62.8	65.1	67.4	64.5	65.4	65.7	67.4	71.7	72.1
Alberta	47.7	45.7	45.6	46.0	47.4	47.6	48.7	51.3	54.0	55.0
Total Fertility Rate (per 1,000 women 15-49)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	2,056	1,937	1,947	1,954	2,052	1,990	2,049	2,149	2,222	2,216
Palliser	1,925	1,900	1,876	1,833	1,888	1,879	1,952	1,925	2,147	2,040
Calgary	1,571	1,569	1,544	1,564	1,639	1,637	1,703	1,747	1,816	1,845
David Thompson	1,958	1,866	1,848	1,893	1,938	1,941	1,942	2,087	2,101	2,106
East Central	1,461	1,400	1,355	1,483	1,369	1,454	1,413	1,491	1,499	1,526
Capital	1,621	1,549	1,574	1,580	1,616	1,638	1,648	1,741	1,824	1,817
Aspen	2,092	1,911	2,026	2,034	2,033	2,051	2,055	2,193	2,221	2,231
Peace Country	2,042	1,914	2,003	1,997	2,102	2,003	2,082	2,208	2,187	2,206
Northern Lights	2,092	2,157	2,247	2,329	2,222	2,249	2,242	2,286	2,386	2,377
Alberta	1,717	1,661	1,670	1,687	1,736	1,740	1,777	1,855	1,923	1,931
Crude Fertility Rate (per 1,000 population)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	13.9	12.9	13.0	13.0	13.7	13.3	13.6	14.3	15.0	15.1
Palliser	13.4	13.0	12.8	12.5	12.8	12.8	13.4	13.3	15.0	14.2
Calgary	12.7	12.5	12.2	12.3	12.8	12.7	13.2	13.5	14.2	14.5
David Thompson	13.5	12.7	12.5	12.8	13.0	13.0	13.0	14.2	14.5	14.6
East Central	9.0	8.5	8.1	8.9	8.2	8.7	8.4	8.9	9.1	9.3
Capital	12.3	11.6	11.7	11.7	11.9	12.0	12.0	12.8	13.5	13.6
Aspen	14.7	13.2	13.8	13.7	13.5	13.6	13.5	14.6	14.9	15.1
Peace Country	15.5	14.4	14.9	14.8	15.5	14.7	15.3	16.5	16.6	16.9
Northern Lights	17.7	18.0	18.6	19.4	18.5	18.8	18.8	19.2	20.5	20.7
Alberta	12.9	12.3	12.3	12.4	12.7	12.7	12.9	13.5	14.2	14.4

Sources: Vital Statistics, Birth File, Department of Government Services, July 2009 release.

Alberta Health Care Insurance Plan Registration File.

Notes: Data include Alberta residents only.

Alberta totals include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 8 Singleton Small-for-Gestational-Age Live Births and Rates by Year and Residence RHA, Alberta, 1999 to 2008

Singleton small-for-gestational-age live births	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	149	117	137	115	142	142	157	165	183	157
Palliser	105	105	105	98	102	95	117	118	121	133
Calgary	1,133	1,074	1,113	1,113	1,215	1,243	1,389	1,474	1,642	1,589
David Thompson	260	251	224	261	254	262	252	325	320	295
East Central	74	66	65	76	41	68	63	71	61	67
Capital	888	830	827	773	810	843	837	983	1,061	1,133
Aspen	182	143	162	149	137	164	143	153	157	202
Peace Country	141	146	121	140	133	121	137	141	137	136
Northern Lights	102	80	71	78	89	77	80	78	97	98
Alberta	3,035	2,813	2,825	2,803	2,923	3,015	3,175	3,508	3,779	3,810

Rate (per 100 singleton live births)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	7.4	6.3	7.2	6.0	7.0	7.2	7.7	7.6	7.8	6.5
Palliser	8.8	8.9	8.8	8.3	8.4	7.7	9.0	8.9	7.9	9.0
Calgary	9.0	8.5	8.8	8.5	8.7	8.8	9.3	9.3	9.6	8.9
David Thompson	7.3	7.4	6.6	7.5	7.0	7.2	6.9	7.9	7.3	6.6
East Central	8.0	7.6	7.6	8.0	4.7	7.4	7.1	7.4	6.0	6.4
Capital	8.1	7.9	7.7	7.0	7.1	7.3	7.2	7.7	7.6	7.9
Aspen	7.3	6.4	6.9	6.3	6.0	7.0	6.1	6.1	6.0	7.5
Peace Country	7.4	8.2	6.5	7.5	6.7	6.4	6.8	6.3	6.0	5.6
Northern Lights	9.7	7.4	6.1	6.2	7.1	5.8	5.9	5.5	6.2	5.9
Alberta	8.3	7.9	7.8	7.6	7.6	7.7	7.9	8.1	8.1	7.9

Source: Vital Statistics, Birth File, Department of Government Services, July 2009 release.

Notes: Data include Alberta residents only.

Alberta totals include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 9 Low Birth Weight Births and Rates by Year and Residence RHA, Alberta, 1999 to 2008

Low birth weight live births	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	128	118	114	99	111	111	112	146	141	131
Palliser	75	58	73	82	82	57	79	80	87	89
Calgary	806	861	873	992	990	1,046	1,133	1,222	1,291	1,420
David Thompson	199	184	215	229	204	214	238	307	277	267
East Central	49	56	57	65	66	73	63	65	46	74
Capital	670	676	669	722	753	774	837	920	1,002	1,065
Aspen	148	136	120	138	149	155	119	162	158	139
Peace Country	100	103	91	94	95	106	91	130	131	123
Northern Lights	68	57	53	65	67	53	56	77	85	93
Alberta	2,243	2,250	2,265	2,486	2,517	2,589	2,728	3,109	3,218	3,402

Rate (per 100 live births)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	6.2	6.1	5.8	5.0	5.3	5.4	5.3	6.5	5.8	5.3
Palliser	6.1	4.8	5.9	6.7	6.5	4.5	5.9	5.9	5.5	5.8
Calgary	6.2	6.6	6.7	7.3	6.8	7.2	7.3	7.5	7.3	7.6
David Thompson	5.5	5.3	6.2	6.3	5.5	5.7	6.2	7.2	6.2	5.8
East Central	5.1	6.2	6.5	6.7	7.3	7.7	6.8	6.6	4.4	6.8
Capital	5.9	6.3	6.1	6.4	6.4	6.5	6.9	7.0	7.0	7.2
Aspen	5.8	6.0	5.0	5.7	6.2	6.5	5.0	6.3	5.8	5.0
Peace Country	5.1	5.7	4.8	4.9	4.7	5.4	4.4	5.7	5.5	5.0
Northern Lights	6.4	5.1	4.4	5.0	5.2	3.9	4.0	5.3	5.2	5.4
Alberta	5.9	6.1	6.1	6.5	6.3	6.4	6.6	7.0	6.7	6.8

Source: Vital Statistics, Birth File, Department of Government Services, July 2009 release.

Notes: Data include Alberta residents only.

Alberta totals include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 10 Singleton Large-for-Gestational-Age Live Births and Rates by Year and Residence RHA, Alberta, 1999 to 2008

Singleton large-for-gestational-age live births	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	253	290	237	251	258	270	263	263	267	307
Palliser	120	141	142	143	139	127	134	167	160	163
Calgary	1,271	1,329	1,317	1,316	1,375	1,370	1,353	1,432	1,512	1,590
David Thompson	445	460	518	483	481	491	470	511	516	584
East Central	104	102	111	118	112	114	97	100	129	127
Capital	1,362	1,327	1,332	1,376	1,387	1,388	1,368	1,390	1,609	1,633
Aspen	339	337	348	364	360	357	320	372	384	359
Peace Country	225	226	305	259	299	294	273	338	321	337
Northern Lights	158	170	188	181	178	203	202	226	246	230
Alberta	4,278	4,382	4,498	4,492	4,589	4,615	4,480	4,799	5,144	5,330

Rate (per 100 singleton live births)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	12.6	15.5	12.5	13.2	12.6	13.6	12.9	12.1	11.4	12.7
Palliser	10.0	12.0	12.0	12.1	11.4	10.3	10.3	12.5	10.5	11.0
Calgary	10.1	10.5	10.4	10.0	9.9	9.7	9.0	9.1	8.8	8.9
David Thompson	12.6	13.6	15.3	13.9	13.3	13.4	12.8	12.4	11.8	13.1
East Central	11.2	11.7	13.0	12.4	12.9	12.5	11.0	10.4	12.6	12.2
Capital	12.3	12.7	12.4	12.5	12.2	12.1	11.7	11.0	11.6	11.4
Aspen	13.7	15.1	14.9	15.5	15.7	15.3	13.7	14.9	14.6	13.3
Peace Country	11.9	12.7	16.4	13.9	15.1	15.4	13.5	15.1	14.0	14.0
Northern Lights	15.0	15.7	16.0	14.5	14.2	15.3	14.9	15.9	15.7	13.8
Alberta	11.6	12.3	12.5	12.1	11.9	11.9	11.1	11.1	11.0	11.0

Source: Vital Statistics, Birth File, Department of Government Services, July 2009 release.

Notes: Data include Alberta residents only.

Alberta totals include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 11 High Birth Weight Births and Rates by Year and Residence RHA, Alberta, 1999 to 2008

High birth weight live births	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	283	318	269	286	282	264	278	285	303	332
Palliser	150	171	162	173	160	153	161	190	183	201
Calgary	1,456	1,427	1,414	1,387	1,490	1,380	1,442	1,480	1,507	1,613
David Thompson	509	487	553	509	490	527	480	527	546	601
East Central	115	115	110	123	120	105	104	120	128	141
Capital	1,430	1,363	1,371	1,395	1,408	1,359	1,360	1,407	1,673	1,638
Aspen	378	369	367	387	373	361	338	391	388	370
Peace Country	278	262	337	300	316	322	297	355	337	356
Northern Lights	164	201	212	212	195	213	197	228	253	274
Alberta	4,764	4,713	4,796	4,773	4,834	4,684	4,657	4,983	5,318	5,526

Rate (per 100 live births)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	13.7	16.3	13.7	14.5	13.5	12.9	13.2	12.7	12.5	13.4
Palliser	12.2	14.0	13.2	14.1	12.7	12.0	11.9	13.9	11.6	13.2
Calgary	11.2	10.9	10.8	10.2	10.3	9.4	9.3	9.1	8.5	8.7
David Thompson	14.0	14.0	15.9	14.1	13.1	13.9	12.6	12.4	12.2	13.0
East Central	12.0	12.7	12.5	12.7	13.4	11.0	11.2	12.1	12.3	13.0
Capital	12.6	12.6	12.4	12.4	12.0	11.4	11.2	10.7	11.6	11.0
Aspen	14.9	16.1	15.3	16.1	15.6	15.1	14.2	15.1	14.3	13.3
Peace Country	14.3	14.4	17.7	15.6	15.5	16.4	14.3	15.4	14.2	14.4
Northern Lights	15.3	18.0	17.8	16.3	15.1	15.8	14.2	15.7	15.5	15.9
Alberta	12.6	12.9	12.9	12.5	12.1	11.6	11.2	11.2	11.0	11.0

Source: Vital Statistics, Birth File, Department of Government Services, July 2009 release.

Notes: Data include Alberta residents only.

Alberta totals include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 12 Preterm Births and Rates by Year and Residence RHA, Alberta, 1999 to 2008

Preterm live births	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	143	149	142	135	161	169	147	196	176	197
Palliser	77	79	88	93	105	68	85	88	103	107
Calgary	1,045	1,131	1,126	1,243	1,349	1,383	1,509	1,511	1,599	1,675
David Thompson	257	257	278	299	279	319	350	359	355	377
East Central	59	84	82	84	99	86	90	92	66	94
Capital	952	1,019	986	1,024	1,095	1,177	1,179	1,202	1,242	1,373
Aspen	199	187	192	207	192	232	193	221	220	197
Peace Country	121	112	141	124	144	149	137	184	183	188
Northern Lights	83	80	73	90	97	82	91	104	114	119
Alberta	2,936	3,098	3,108	3,300	3,521	3,666	3,781	3,957	4,058	4,328

Rate (per 100 live births)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	6.9	7.7	7.2	6.9	7.7	8.3	7.0	8.7	7.3	7.9
Palliser	6.3	6.5	7.2	7.6	8.3	5.3	6.3	6.5	6.5	7.0
Calgary	8.0	8.7	8.6	9.1	9.3	9.5	9.8	9.2	9.0	9.0
David Thompson	7.0	7.4	8.0	8.3	7.5	8.4	9.2	8.4	7.9	8.2
East Central	6.1	9.3	9.3	8.7	11.0	9.0	9.7	9.3	6.3	8.7
Capital	8.4	9.4	8.9	9.1	9.4	9.9	9.7	9.2	8.6	9.2
Aspen	7.8	8.2	8.0	8.6	8.0	9.7	8.1	8.6	8.1	7.1
Peace Country	6.2	6.2	7.4	6.5	7.1	7.6	6.6	8.0	7.7	7.6
Northern Lights	7.8	7.2	6.1	6.9	7.5	6.1	6.6	7.2	7.0	6.9
Alberta	7.8	8.5	8.3	8.6	8.8	9.1	9.1	8.9	8.4	8.6

Source: Vital Statistics, Birth File, Department of Government Services, July 2009 release.

Notes: Data include Alberta residents only.

Alberta totals include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 13 Multiple Births and Rates by Year and Residence RHA, Alberta, 1999 to 2008

Multiple live births	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	63	74	66	62	53	64	62	76	80	65
Palliser	36	46	42	41	39	44	47	32	50	45
Calgary	370	385	452	468	529	494	478	551	580	683
David Thompson	104	95	96	140	107	127	151	126	114	153
East Central	36	34	29	22	32	40	40	34	21	39
Capital	289	335	322	319	347	444	418	446	511	561
Aspen	59	60	67	60	87	68	58	85	69	78
Peace Country	53	34	46	61	61	54	58	60	83	52
Northern Lights	19	35	20	48	39	24	26	32	66	57
Alberta	1,029	1,098	1,140	1,221	1,294	1,359	1,338	1,442	1,574	1,733

Rate (per 100 live births)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	3.1	3.8	3.4	3.1	2.5	3.1	2.9	3.4	3.3	2.6
Palliser	2.9	3.8	3.4	3.3	3.1	3.4	3.5	2.3	3.2	2.9
Calgary	2.8	2.9	3.4	3.4	3.7	3.4	3.1	3.4	3.3	3.7
David Thompson	2.9	2.7	2.8	3.9	2.9	3.4	3.9	3.0	2.5	3.3
East Central	3.7	3.7	3.3	2.3	3.6	4.2	4.3	3.4	2.0	3.6
Capital	2.6	3.1	2.9	2.8	3.0	3.7	3.5	3.4	3.5	3.8
Aspen	2.3	2.6	2.8	2.5	3.6	2.8	2.4	3.3	2.6	2.8
Peace Country	2.7	1.9	2.4	3.2	3.0	2.8	2.8	2.6	3.5	2.1
Northern Lights	1.8	3.1	1.7	3.7	3.0	1.8	1.9	2.2	4.0	3.3
Alberta	2.7	3.0	3.1	3.2	3.2	3.4	3.2	3.2	3.3	3.5

Source: Vital Statistics, Birth File, Department of Government Services, July 2009 release.

Notes: Data include Alberta residents only.

Alberta totals include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 14 Neonatal¹, Post-Neonatal², and Infant³ Deaths and Rates by Year, Alberta, 1999 to 2008

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Live births	37,778	36,625	37,226	38,293	39,868	40,292	41,587	44,659	48,364	50,164
Neonatal deaths	138	150	144	200	195	179	209	177	221	228
Neonatal mortality rate (per 1,000 live births)	3.7	4.1	3.9	5.2	4.9	4.4	5.0	4.0	4.6	4.5
Post-neonatal deaths	77	89	65	78	71	54	70	73	70	84
Post-neonatal mortality rate (per 1,000 live births)	2.0	2.4	1.7	2.0	1.8	1.3	1.7	1.6	1.4	1.7
Infant deaths	215	239	209	278	266	233	279	250	291	312
Infant mortality rate (per 1,000 live births)	5.7	6.5	5.6	7.3	6.7	5.8	6.7	5.6	6.0	6.2

Source: Vital Statistics, Birth and Death Files, Department of Government Services, July 2009 release.

Notes: 1. Neonatal deaths refers to deaths of live born infants less than 28 full days after birth.

2. Post-neonatal deaths refers to deaths of children between 28 full days and one year of age.

3. Infant deaths refers to deaths of children under one year of age.

Data include Alberta residents only.

Alberta totals include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 15 Neonatal¹, Post-Neonatal², and Infant³ Deaths and Rates by Residence RHA, Alberta, 2006 to 2008 Combined

	Chinook	Palliser	Calgary	David Thompson	East Central	Capital	Aspen	Peace Country	Northern Lights	Alberta
Live births	7,147	4,469	52,696	13,341	3,115	42,404	8,061	7,139	4,811	143,187
Neonatal deaths	37	19	189	69	12	204	35	42	18	626
Neonatal mortality rate (per 1,000 live births)	5.2	4.3	3.6	5.2	3.9	4.8	4.3	5.9	3.7	4.4
Post-neonatal deaths	8	8	71	28	3	68	16	15	10	227
Post-neonatal mortality rate (per 1,000 live births)	1.1	1.8	1.3	2.1	1.0	1.6	2.0	2.1	2.1	1.6
Infant deaths	45	27	260	97	15	272	51	57	28	853
Infant mortality rate (per 1,000 live births)	6.3	6.0	4.9	7.3	4.8	6.4	6.3	8.0	5.8	6.0

Source: Vital Statistics, Birth and Death Files, Department of Government Services, July 2009 release.

Notes: 1. Neonatal deaths refers to deaths of live born infants less than 28 full days after birth.

2. Post-neonatal deaths refers to deaths of children between 28 full days and one year of age.

3. Infant deaths refers to deaths of children under one year of age.

Data include Alberta residents only.

Alberta totals include unknown RHAs.

Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 16 Women 15 - 49 by Residence RHA, Alberta, 1999 to 2008

Residence RHA	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Chinook	37,116	37,409	37,453	37,469	37,538	37,637	37,621	37,820	38,573	39,159
Palliser	23,669	23,990	24,512	24,876	24,820	24,991	25,160	25,302	25,821	26,069
Calgary	289,318	294,761	301,784	309,686	314,359	318,119	322,633	330,679	340,332	347,886
David Thompson	69,712	70,725	71,785	72,982	73,541	74,145	74,570	75,569	77,632	78,555
East Central	25,721	25,838	26,088	26,345	26,308	26,207	26,172	26,136	26,778	27,099
Capital	250,901	253,364	256,989	261,592	264,438	265,829	267,430	271,912	280,518	286,046
Aspen	44,416	44,399	44,765	45,130	44,774	44,538	44,291	44,506	45,256	45,658
Peace Country	33,660	33,874	34,118	34,583	34,705	35,038	35,364	36,245	37,336	37,976
Northern Lights	17,419	17,784	18,304	19,263	20,028	20,611	21,073	21,548	22,802	23,913
Unknown	49	38	115	38	49	59	35	59	79	95
Total Women 15-49	791,981	802,182	815,913	831,964	840,560	847,174	854,349	869,776	895,127	912,456
Alberta Population	2,923,449	2,967,755	3,022,891	3,086,646	3,134,337	3,179,036	3,222,191	3,298,028	3,407,742	3,495,300

Source: Alberta Health Care Insurance Plan Registration File, Alberta Health and Wellness.

Notes: Data may differ from previously published data due to differences in definitions and dates of data extraction.

Table 17 Women 10 - 49 by Age Group, Alberta, 1999 to 2008

Age group	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
10-14	108,776	110,073	110,821	111,927	112,452	111,565	110,360	110,161	109,951	109,817
15-17	64,531	65,499	66,621	67,490	67,455	68,065	69,187	70,552	71,193	70,737
18-19	40,965	42,723	44,386	45,513	45,940	46,249	46,372	46,284	47,741	49,497
15-19	105,496	108,222	111,007	113,003	113,395	114,314	115,559	116,836	118,934	120,234
20-24	102,104	103,552	106,634	110,520	113,900	116,575	118,397	122,100	127,053	129,258
25-29	105,731	105,981	106,813	109,731	111,509	113,764	116,210	121,374	128,880	135,929
30-34	112,685	110,996	112,047	113,471	114,564	114,582	115,321	117,553	122,803	126,931
35-39	133,934	132,554	129,575	126,332	122,284	119,152	117,930	120,304	123,898	126,733
40-44	127,749	131,234	133,936	137,029	138,222	138,573	137,349	135,051	133,101	130,489
45-49	104,282	109,643	115,901	121,878	126,686	130,214	133,583	136,558	140,458	142,882
Women aged 15 - 49	791,981	802,182	815,913	831,964	840,560	847,174	854,349	869,776	895,127	912,456
Women aged 10 - 49	900,757	912,255	926,734	943,891	953,012	958,739	964,709	979,937	1,005,078	1,022,273
Alberta Population	2,923,449	2,967,755	3,022,891	3,086,646	3,134,337	3,179,036	3,222,191	3,298,028	3,407,742	3,495,300

Source: Alberta Health Care Insurance Plan Registration File, Alberta Health and Wellness.

Notes: Data may differ from previously published data due to differences in definitions and dates of data extraction.