

# Alberta Labour Market



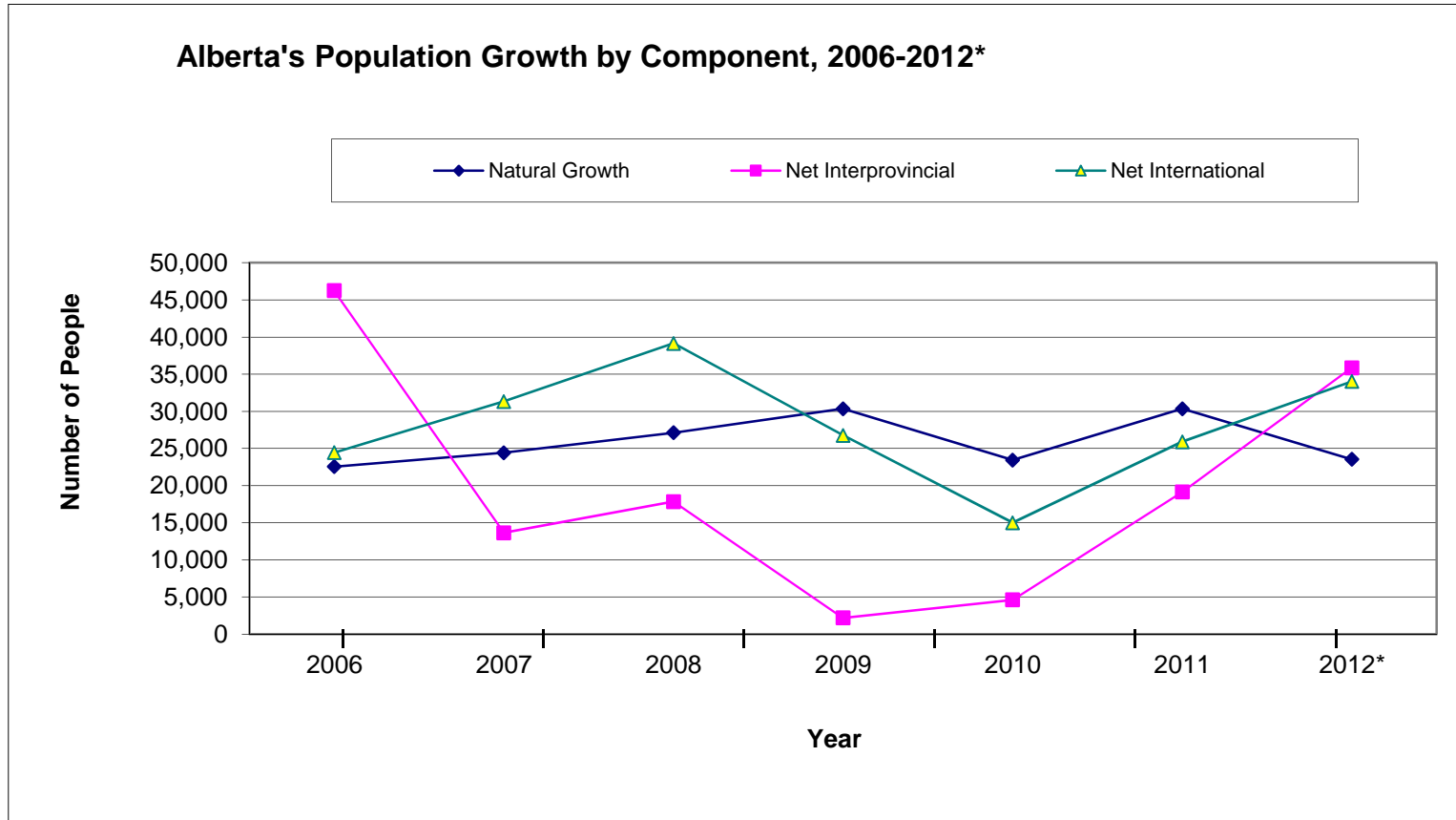
Released March 2013

## **Factors Likely to Affect Alberta's Labour Market**

- **Debt, deficits and pace of economic growth in the United States (US)**
- **Increasing US oil and natural gas production**
- **Constrained market access for Alberta's bitumen**
- **Economic growth in emerging markets**
- **Effects of the Eurozone debt crisis**
- **Interest rates**
- **Retirement of "babyboomers"**
- **Interprovincial and international net migration**

# Alberta

## Components of Population Growth, 2006 - 2012



\*Figures for 2012 are for the first three quarters only

Note: Net International includes Net Non-Permanent Residents

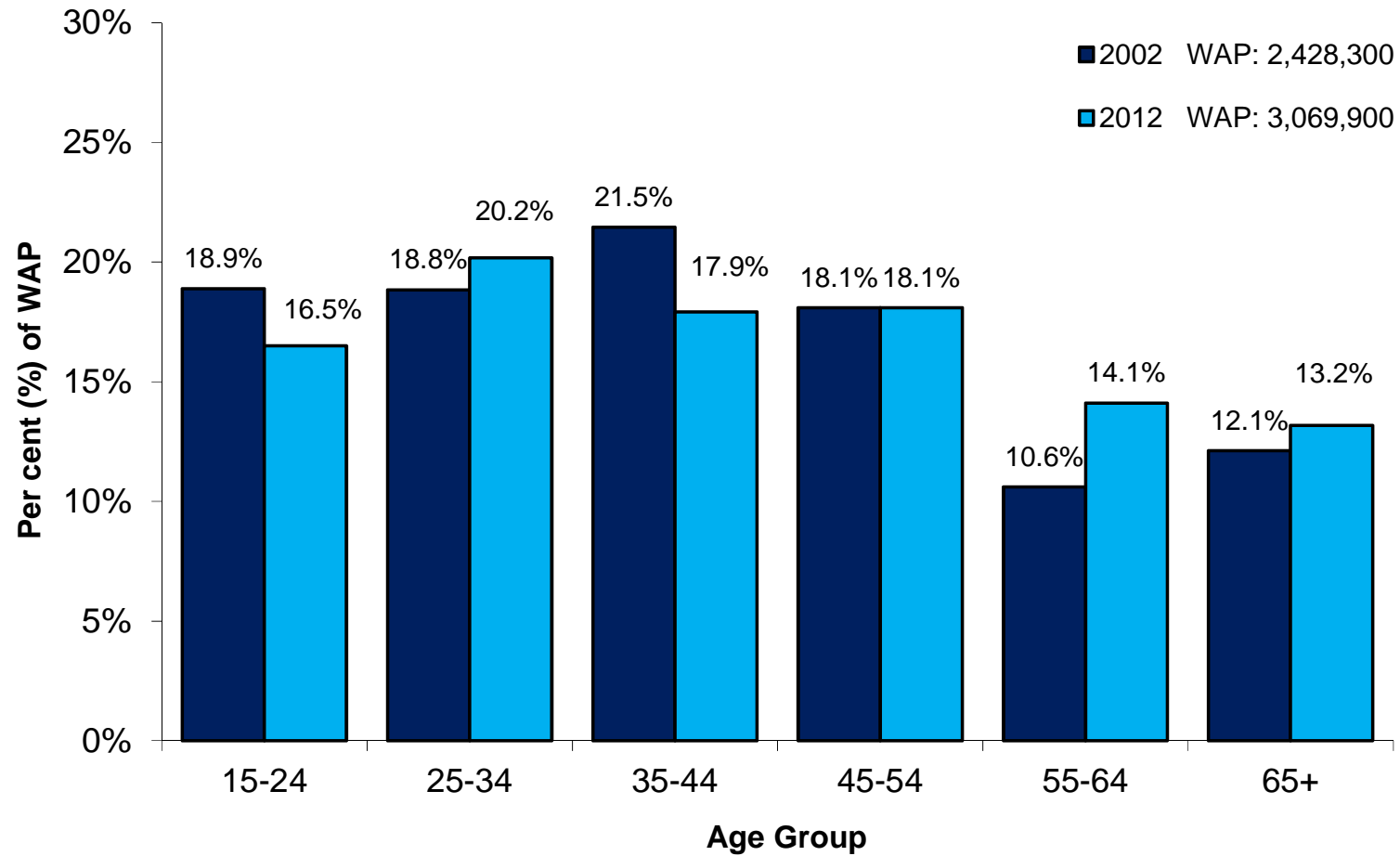
Data Source: Statistics Canada.

Prepared by: Alberta Treasury Board and Finance, Economics, Demography and Public Finance, December , 2012



# Alberta

## Working Age Population (WAP) by Age Group

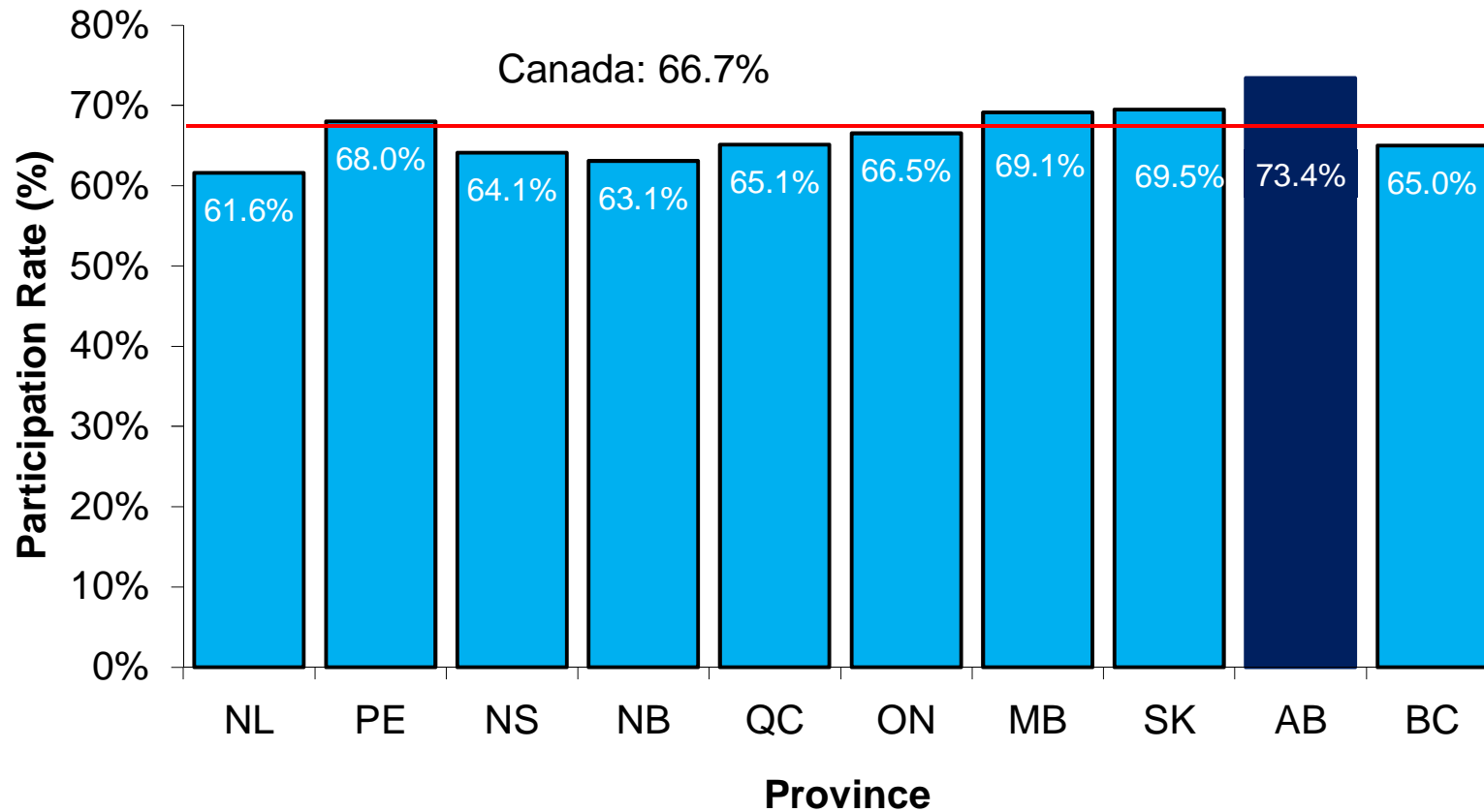


Data Source: Statistics Canada, Labour Force Survey , CANSIM, 2013



# Canada and Provinces

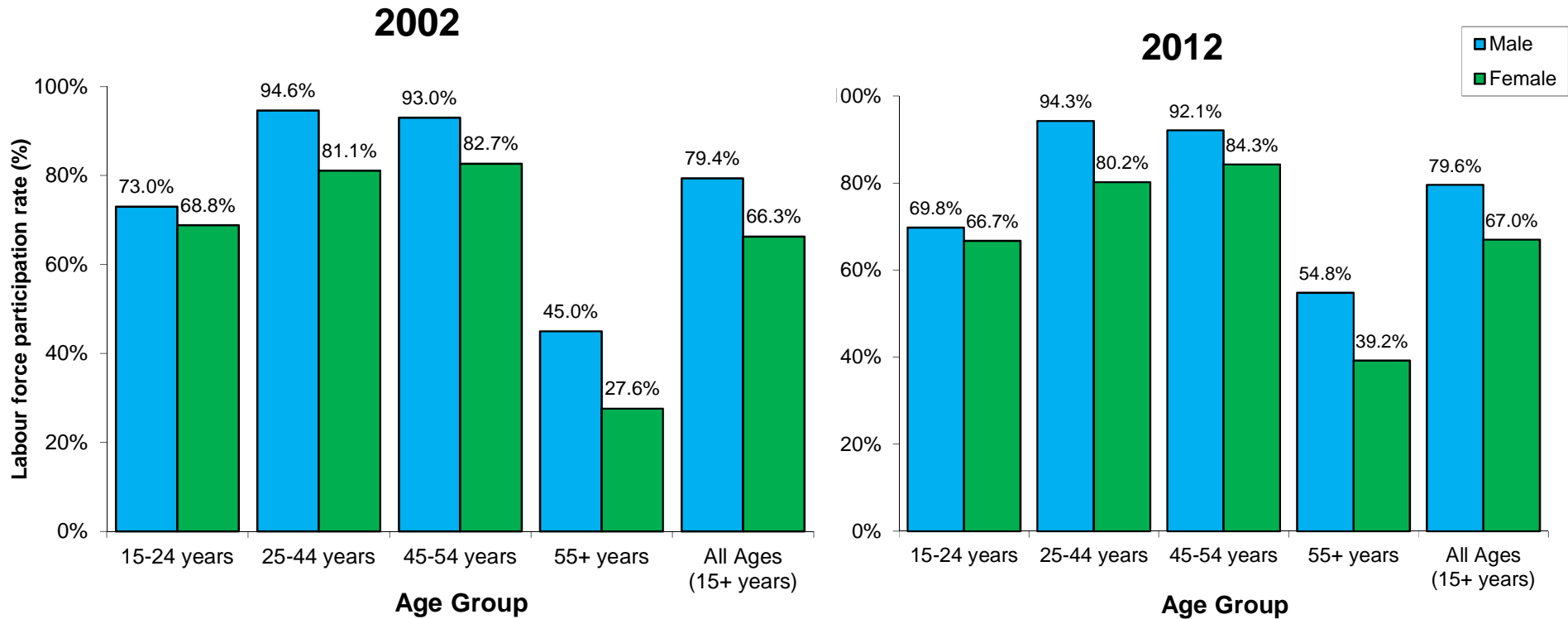
## Labour Force Participation Rates, 2012



Data Source: Statistics Canada, Labour Force Survey, CANSIM, 2013



# Alberta Participation Rate by Age Group and Sex



Data Source: Statistics Canada, Labour Force Survey, CANSIM, 2013



# Alberta

## Labour Force Statistics by Economic Region, 2012

### Athabasca – Grande Prairie:

Working Age Population: 192,000  
Labour Force: 137,900  
Unemployment Rate: 4.4%

### Jasper – Banff – Rocky Mountain House:

Working Age Population: 72,300  
Labour Force: 54,300  
Unemployment Rate: 3.9%

### Red Deer:

Working Age Population: 157,200  
Labour Force: 113,900  
Unemployment Rate: 4.7%

### Calgary:

Working Age Population: 1,137,500  
Labour Force: 848,900  
Unemployment Rate: 4.8%

### Wood Buffalo – Cold Lake:

Working Age Population: 105,600  
Labour Force: 84,800  
Unemployment Rate: 4.4%

### Edmonton:

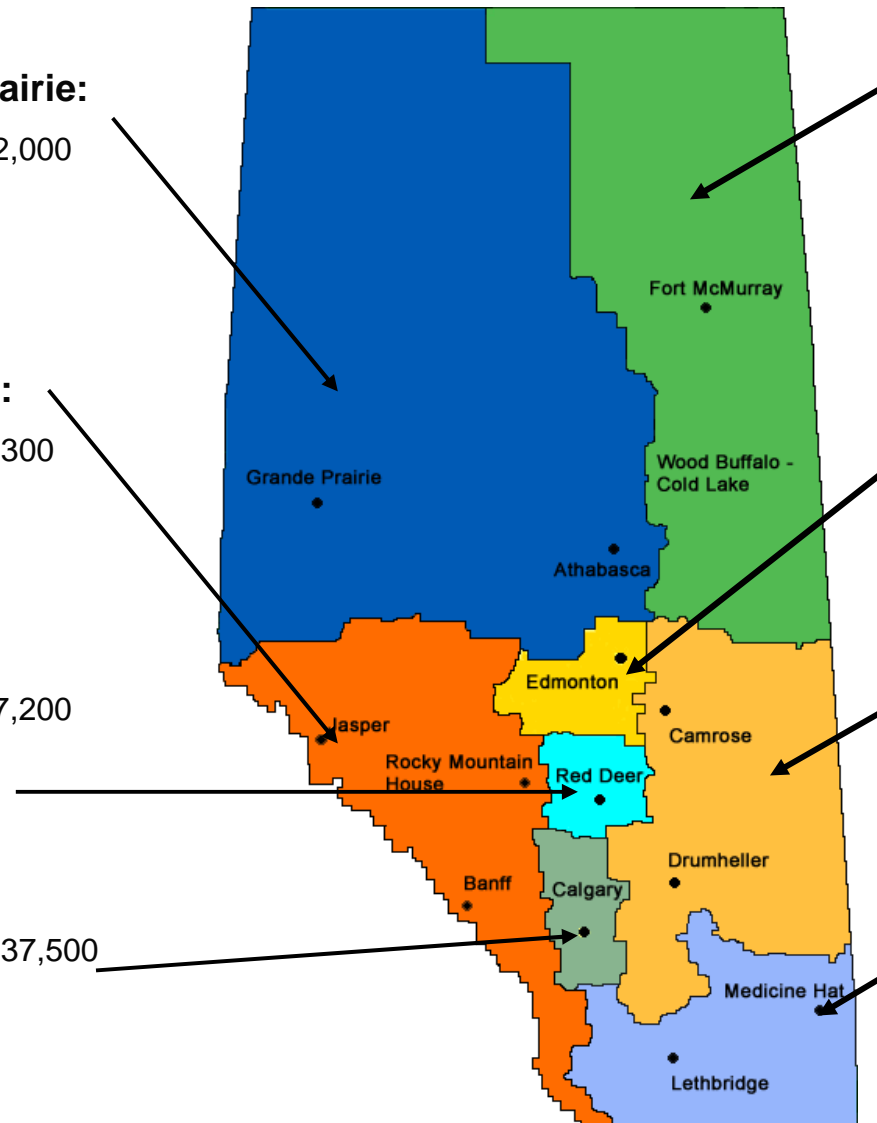
Working Age Population: 1,025,800  
Labour Force: 751,700  
Unemployment Rate: 4.6%

### Camrose – Drumheller:

Working Age Population: 157,200  
Labour Force: 110,900  
Unemployment Rate: 3.7%

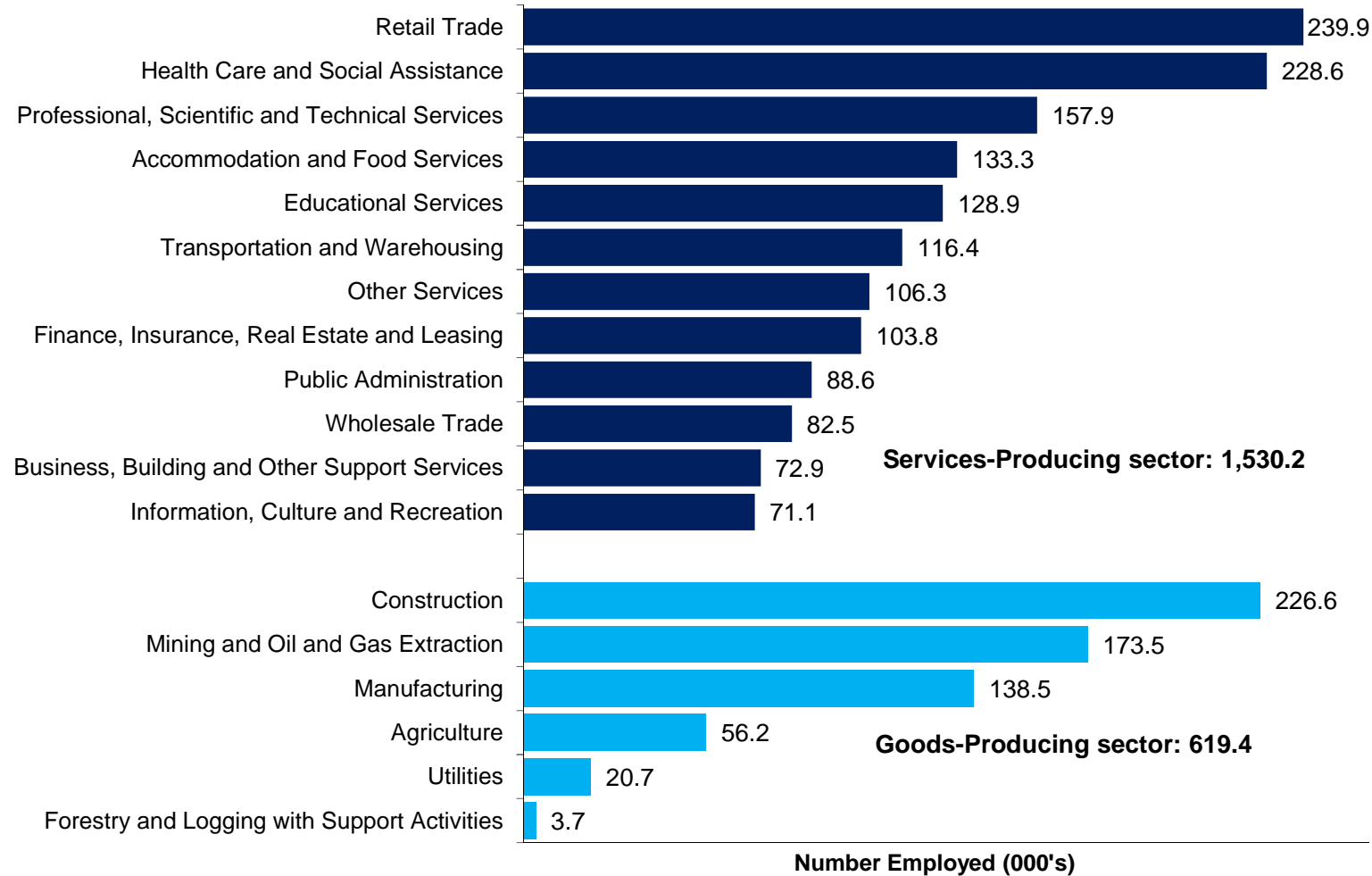
### Lethbridge – Medicine Hat:

Working Age Population: 222,200  
Labour Force: 151,100  
Unemployment Rate: 4.6%



# Alberta

## Employment by Industry, 2012



Data Source: Statistics Canada, Labour Force Survey, CANSIM, 2013





# Alberta

## Change in Employment by Industry

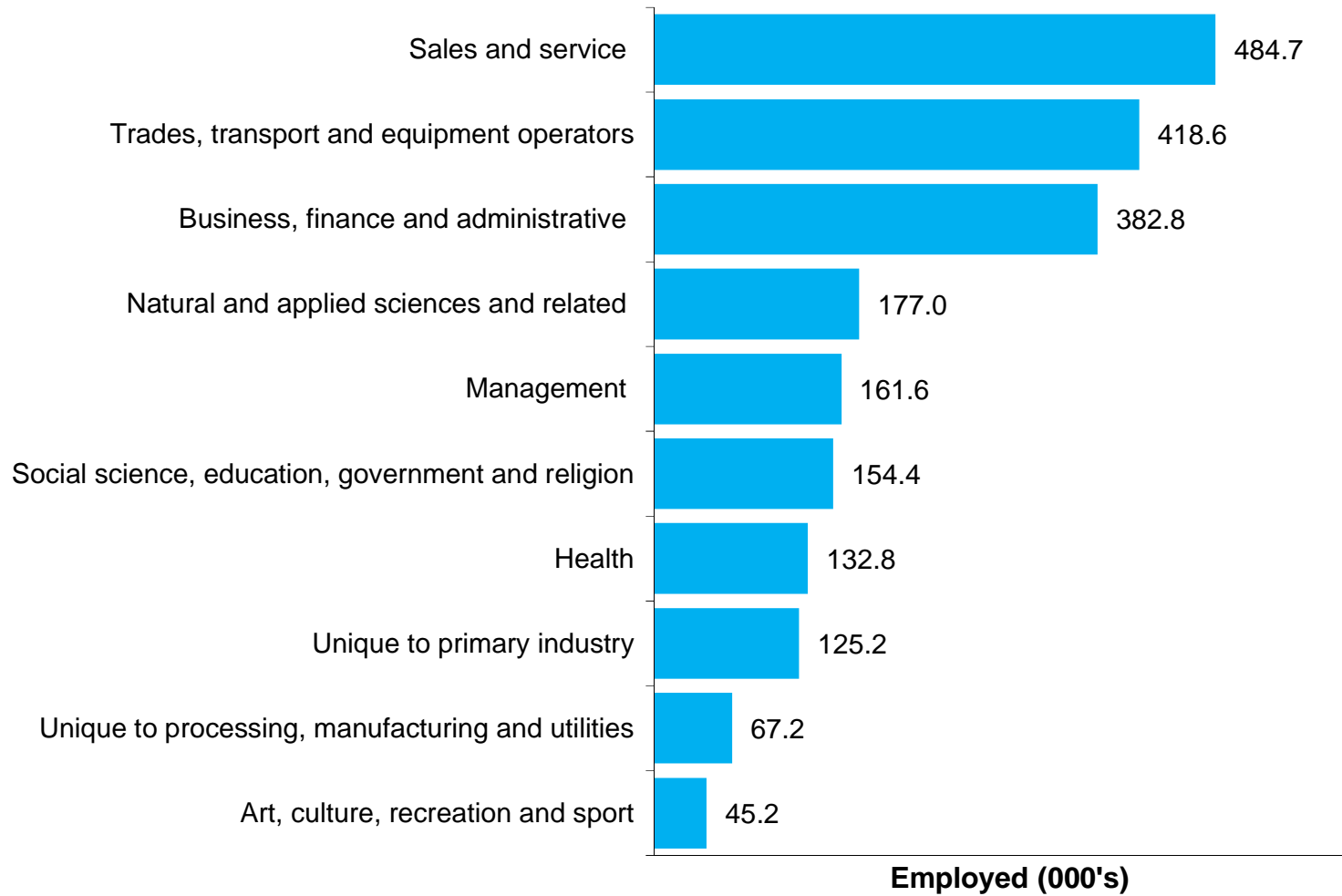
Change in Employment by Industry, 2011 - 2012			
	2011 (000's)	2012 (000's)	% Change
<b>Total, all industries</b>	2,094.1	2,149.6	2.7%
<b>Goods-Producing Sector</b>	575.0	619.4	7.7%
Agriculture	51.8	56.2	8.5%
Forestry and Logging with Support Activities	3.4	3.7	8.8%
Mining and Oil and Gas Extraction	151.1	173.5	14.8%
Utilities	16.3	20.7	27.0%
Construction	210.8	226.6	7.5%
Manufacturing	141.4	138.5	-2.1%
<b>Services-Producing Sector</b>	1,519.2	1,530.2	0.7%
Wholesale Trade	91.7	82.5	-10.0%
Retail Trade	231.4	239.9	3.7%
Transportation and Warehousing	107.3	116.4	8.5%
Finance, Insurance, Real Estate and Leasing	100.1	103.8	3.7%
Professional, Scientific and Technical Services	163.5	157.9	-3.4%
Business, Building and Other Support Services	73.2	72.9	-0.4%
Educational Services	127.4	128.9	1.2%
Health Care and Social Assistance	224.9	228.6	1.6%
Information, Culture and Recreation	78.9	71.1	-9.9%
Accommodation and Food Services	130.8	133.3	1.9%
Other Services	105.1	106.3	1.1%
Public Administration	84.8	88.6	4.5%

Data Source: Statistics Canada, Labour Force Survey, CANSIM, 2013



# Alberta

## Employment by Occupation, 2012



Data Source: Statistics Canada, Labour Force Survey, CANSIM, 2013



# Alberta

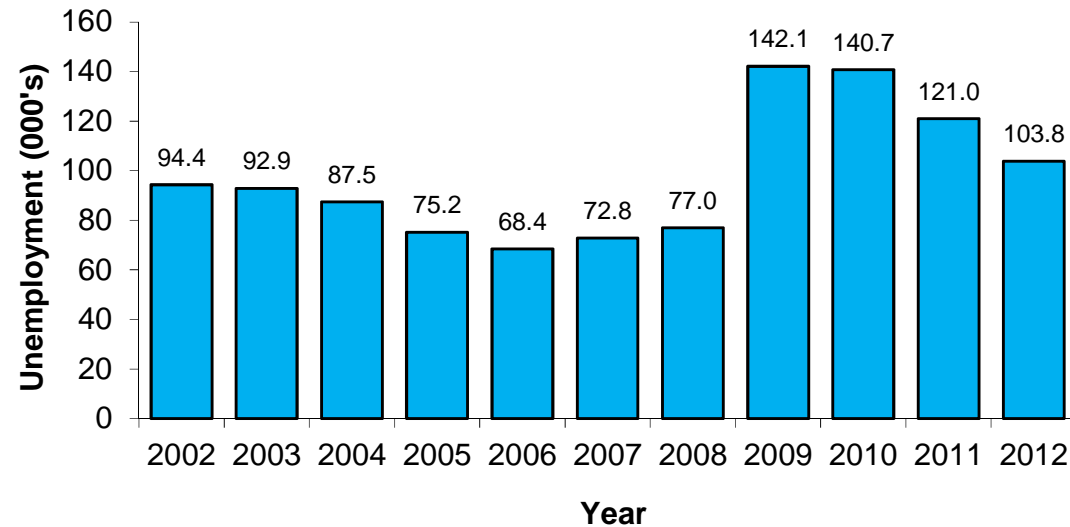
## Change in Employment by Occupation

Change in Employment by Occupation, 2011 - 2012			
	2011 (000's)	2012 (000's)	% Change
<b>Total, all occupations</b>	2,094.1	2,149.6	2.7%
Management occupations	156.6	161.6	3.2%
Business, finance and administrative occupations	376.1	382.8	1.8%
Natural and applied sciences and related occupations	172.8	177.0	2.4%
Health occupations	124.8	132.8	6.4%
Occupations in social science, education, government service and religion	156.3	154.4	-1.2%
Occupations in art, culture, recreation and sport	47.7	45.2	-5.2%
Sales and service occupations	488.3	484.7	-0.7%
Trades, transport and equipment operators and related occupations	389.7	418.6	7.4%
Occupations unique to primary industry	112.5	125.2	11.3%
Occupations unique to processing, manufacturing and utilities	69.4	67.2	-3.2%

# Alberta

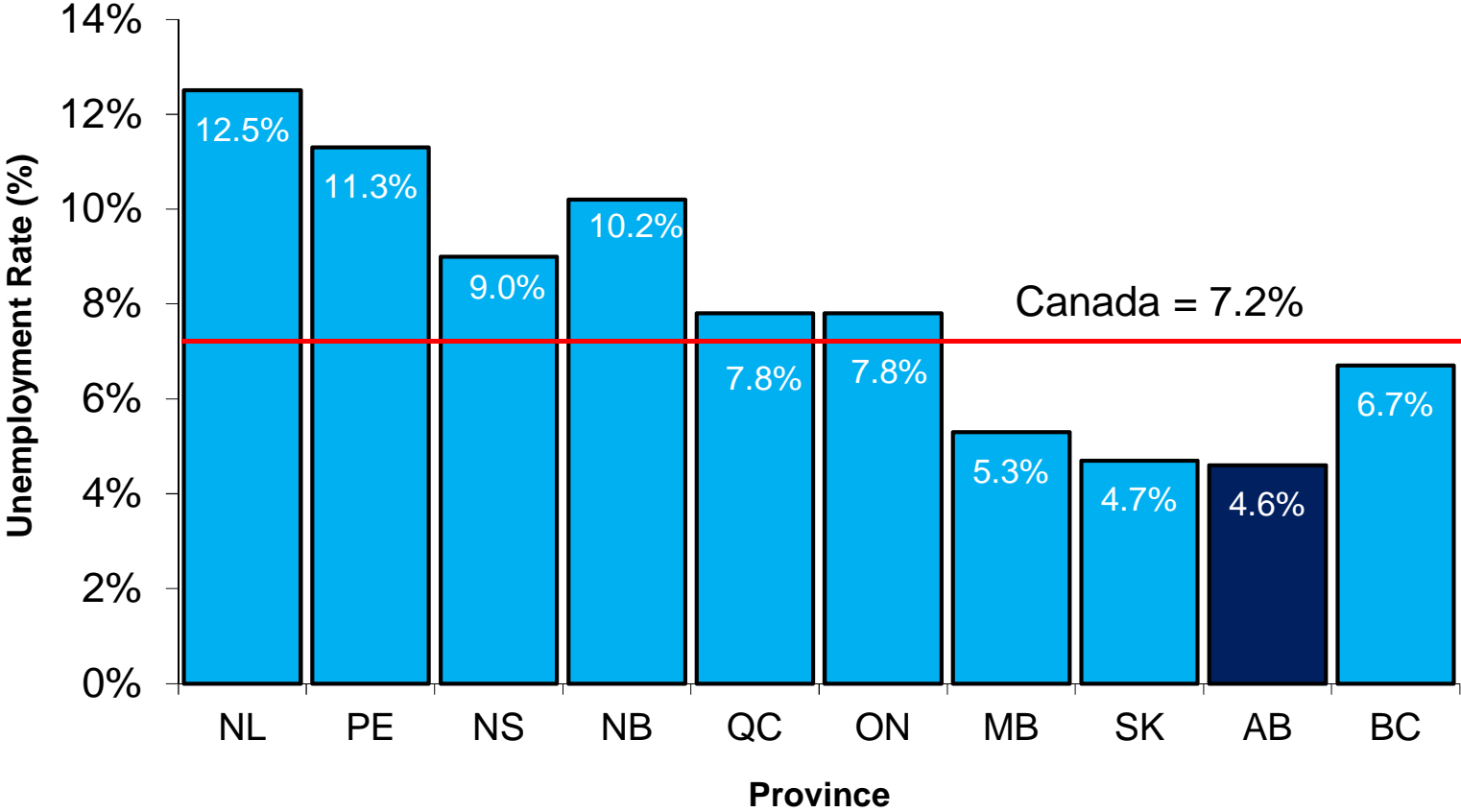
## Historical Unemployment, 2002 - 2012

The number of unemployed people has been declining since reaching a recessionary high in 2009.



# Canada and Provinces

## Unemployment Rate, 2012

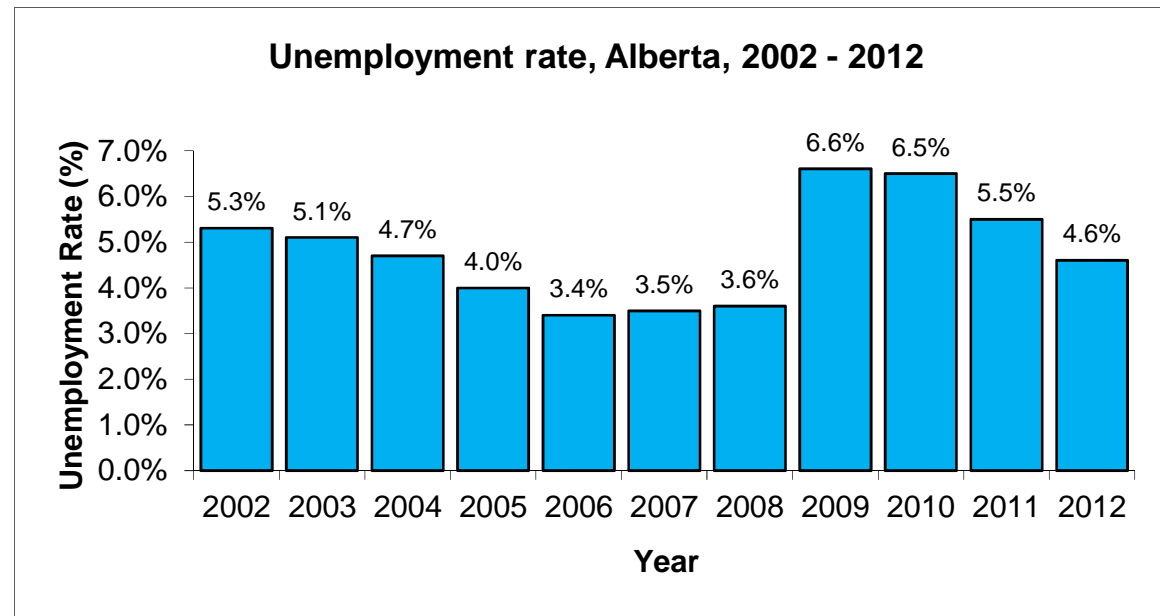


Data Source: Statistics Canada, Labour Force Survey, CANSIM, 2013



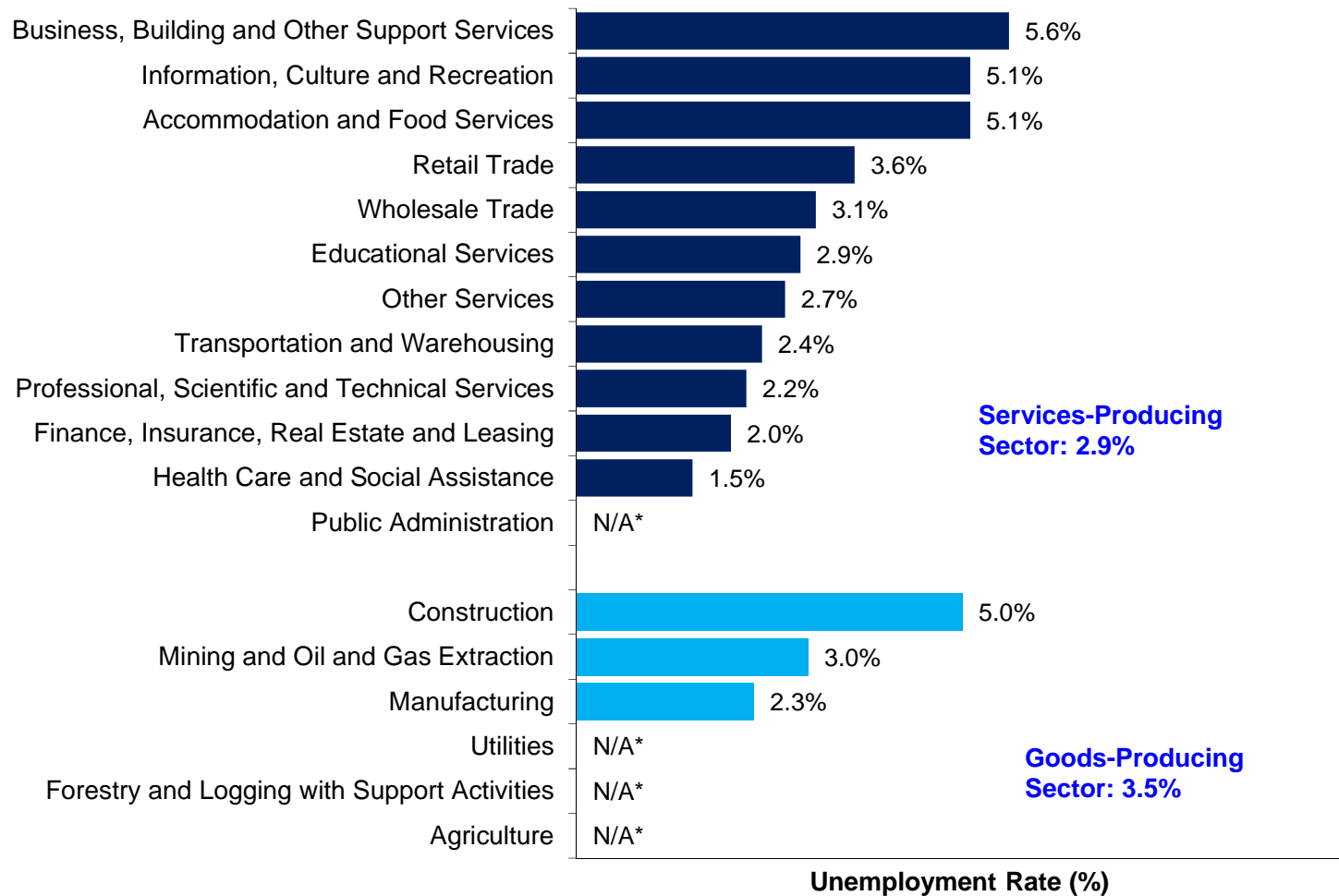
# Alberta's Unemployment Rate, 2002 - 2012

The unemployment rate continues to decline since peaking in 2009 during the recession.



# Alberta

## Unemployment Rate by Industry, 2012



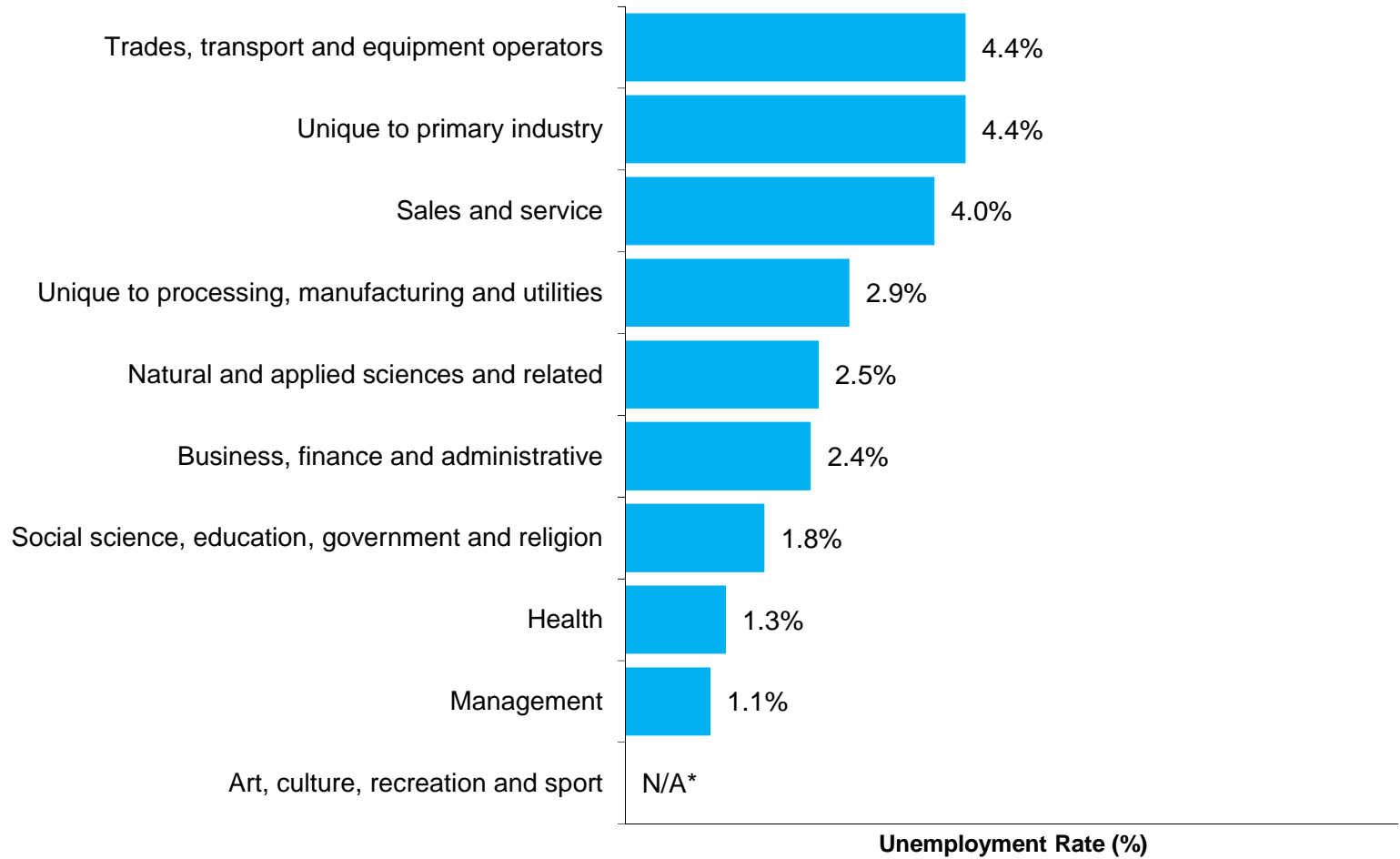
\* N/A denotes data suppressed by Statistics Canada due to insufficient sample size

Data Source: Statistics Canada, Labour Force Survey, CANSIM, 2013



# Alberta

## Unemployment Rate by Occupation, 2012



\* N/A denotes data suppressed by Statistics Canada due to insufficient sample size

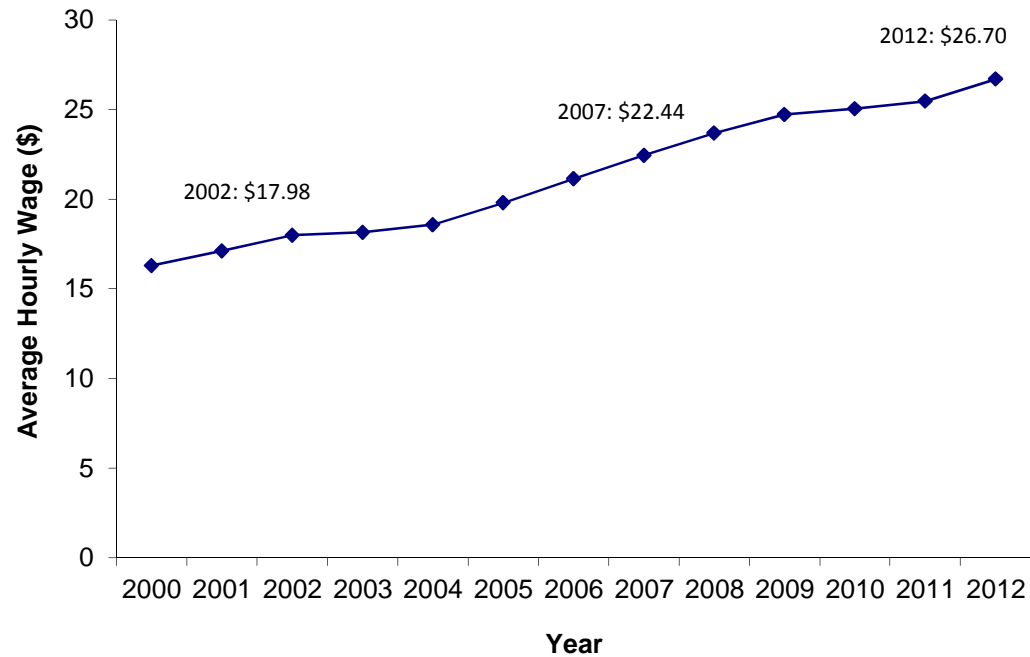




# Alberta

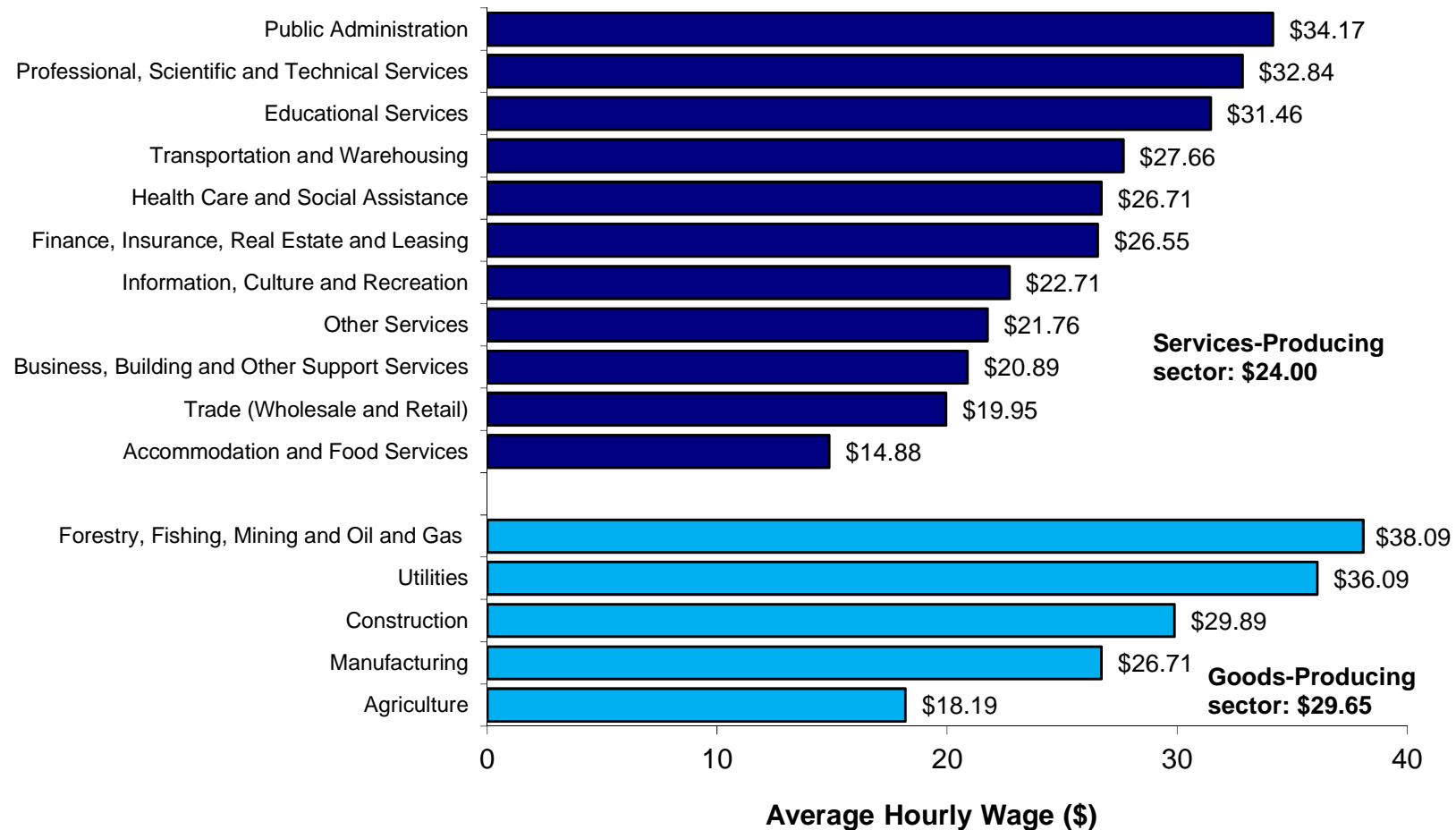
## Average Hourly Wages, 2000 - 2012

- Alberta's average hourly wage rate increased by \$1.23 in 2012 compared to 2011.
- Alberta has had the highest average hourly wage rate in Canada since 2006.



# Alberta

## Average Hourly Wage by Industry, 2012

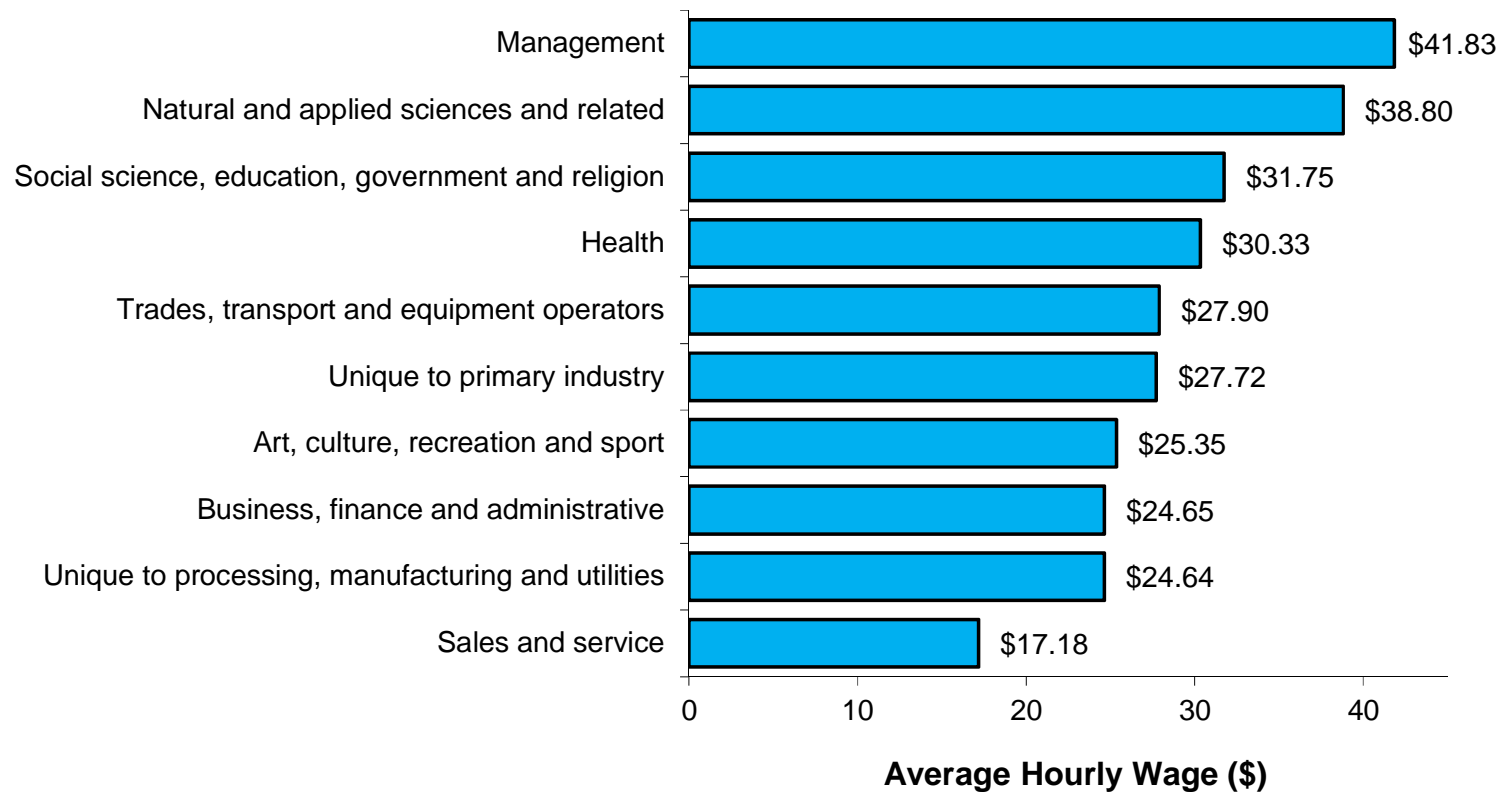


Data Source: Statistics Canada, Labour Force Survey, CANSIM, 2013



# Alberta

## Average Hourly Wage by Occupation, 2012

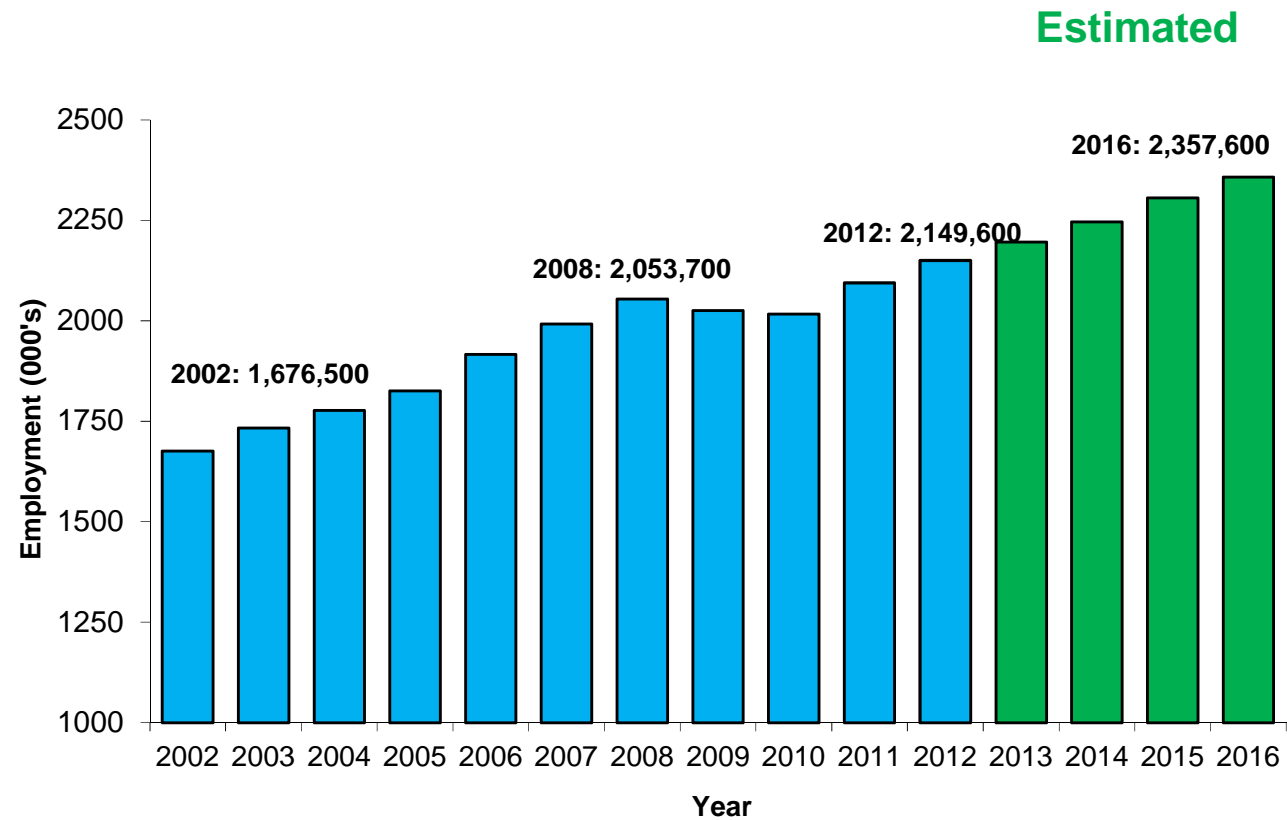


Data Source: Statistics Canada, Labour Force Survey, CANSIM, 2013



# Alberta Employment, 2002-2016

From 2013 to 2016, the number of employed Albertans is expected to increase by 208,000.

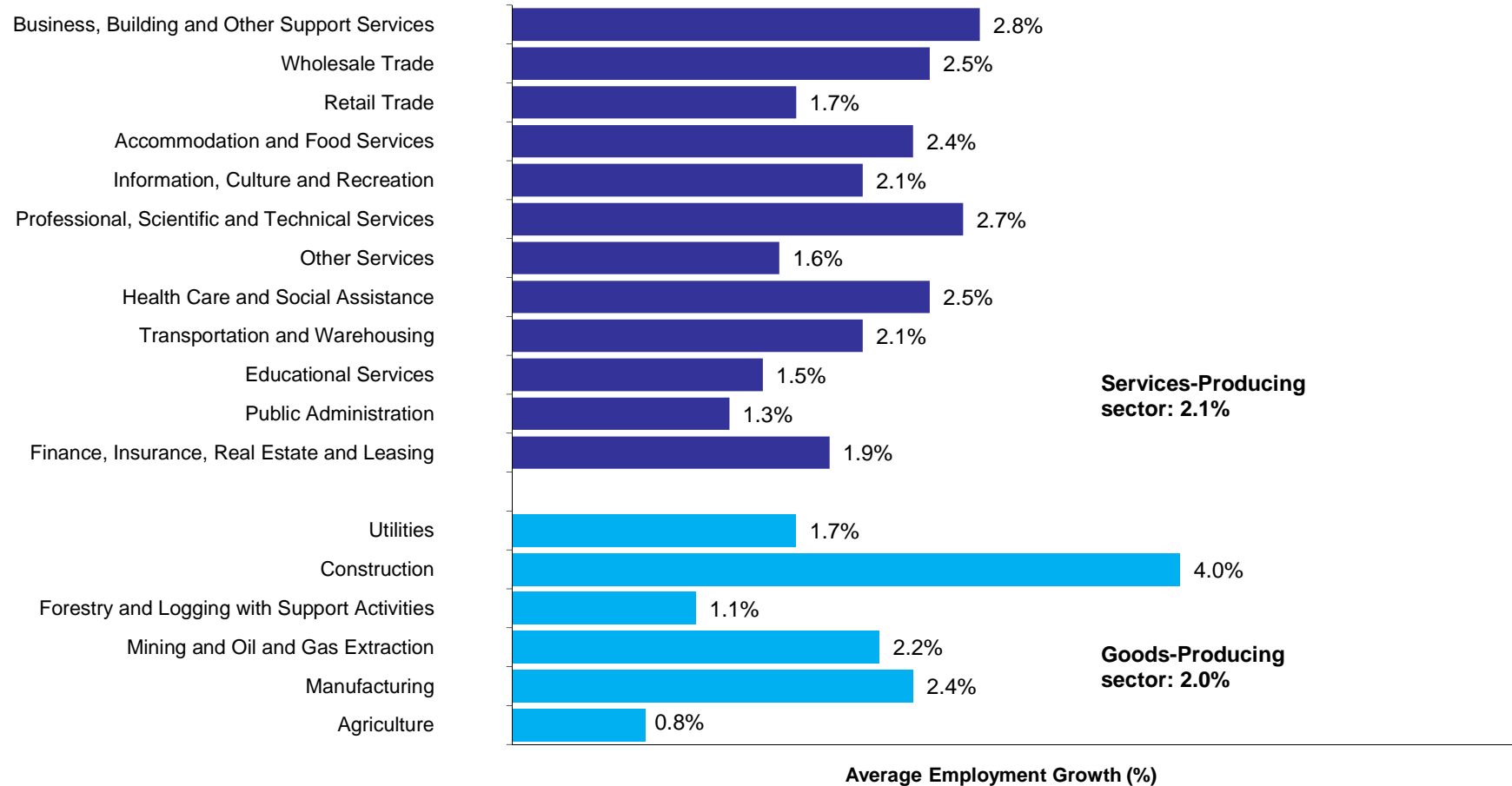


Data Sources: Historical: Statistics Canada, Labour Force Survey, CANSIM, 2013  
Forecasted: Alberta Regional Occupational Demand Outlook, 2012-2016



# Alberta

## Average Employment Growth by Industry, 2011-2015



Data Source: Alberta Modified COPS Outlook 2011-2015, Industry Employment Outlook



# Alberta

## Occupational Demand and Supply Outlook, 2011-2021

Overall Occupational Demand and Supply Outlook for Alberta, 2010 - 2021												
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Demand (000s)	2,016	2,071	2,123	2,176	2,232	2,294	2,360	2,415	2,472	2,522	2,568	2,623
Supply (000s)	2,157	2,196	2,241	2,288	2,337	2,392	2,449	2,496	2,543	2,580	2,611	2,650
Annual Shortage*		15,814	6,397	6,997	6,746	7,279	8,638	8,100	9,909	12,419	15,145	16,834
Cumulative Shortage		15,814	22,211	29,208	35,954	43,233	51,871	59,971	69,880	82,299	97,444	114,278

\* Annual shortage = (Demand [year t+1] – Demand [year t]) – (Supply [year t+1] – Supply [year t])

# Alberta

## Occupations in Short-Term High Demand, 2012-2014

NOC*	NOC-S**	Occupation Title	Number of Employed People 2011
<b>High Demand Occupations</b>			
2173	C073	Software Engineers	3,500
0631	A221	Restaurant and Food Service Managers	15,500
0711	A371	Construction Managers	9,100
0712	A372	Residential Home Builders and Renovators	13,400
2113	C013	Geologists, Geochemists and Geophysicists	6,700
2131	C031	Civil Engineers	9,100
2231	C131	Civil Engineering Technologists and Technicians	2,300
2243	C143	Industrial Instrument Technicians and Mechanics	3,800
2281	C181	Computer Network Technicians	6,200
3111	D011	Specialist Physicians	3,500
3112	D012	General Practitioners and Family Physicians	7,200
3131	D031	Pharmacists	3,600
6241	G411	Chefs	6,400
7282	H132	Cement Finishers	3,200
7312	H412	Heavy-Duty Equipment Mechanics	14,400
7321	H421	Automotive Service Technicians, Truck and Bus Mechanics and Mechanical Repairers	14,400
7322	H422	Motor Vehicle Body Repairers	4,500
7414	H714	Delivery Drivers	7,600
9212	J012	Supervisors, Petroleum, Gas and Chemical Processing and Utilities	2,900

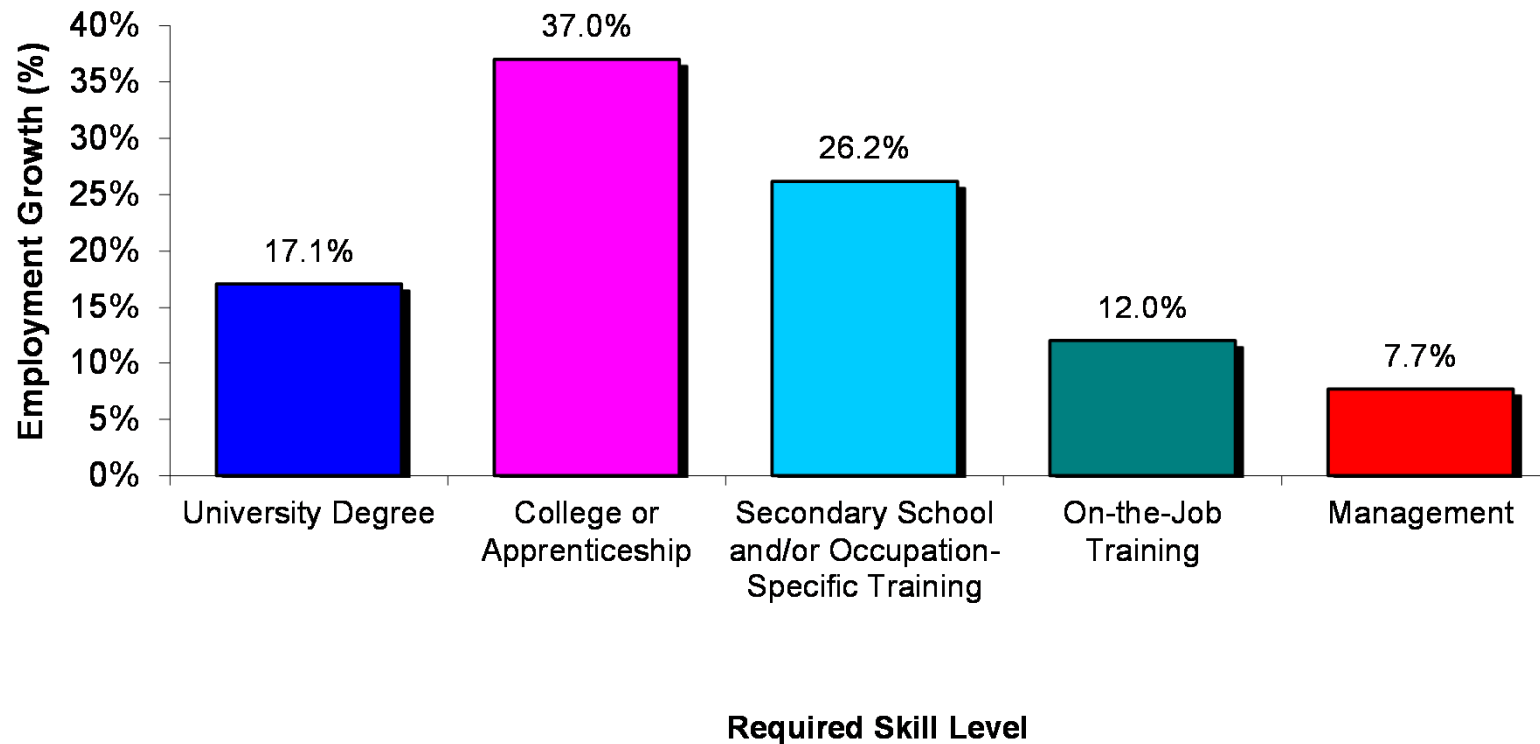
Data Source: Short-Term Employment Forecast (STEF) 2012-2014



# Alberta

## Total Employment Growth by Skill Level, 2012-2016

Percentage of Total 5 Year Growth



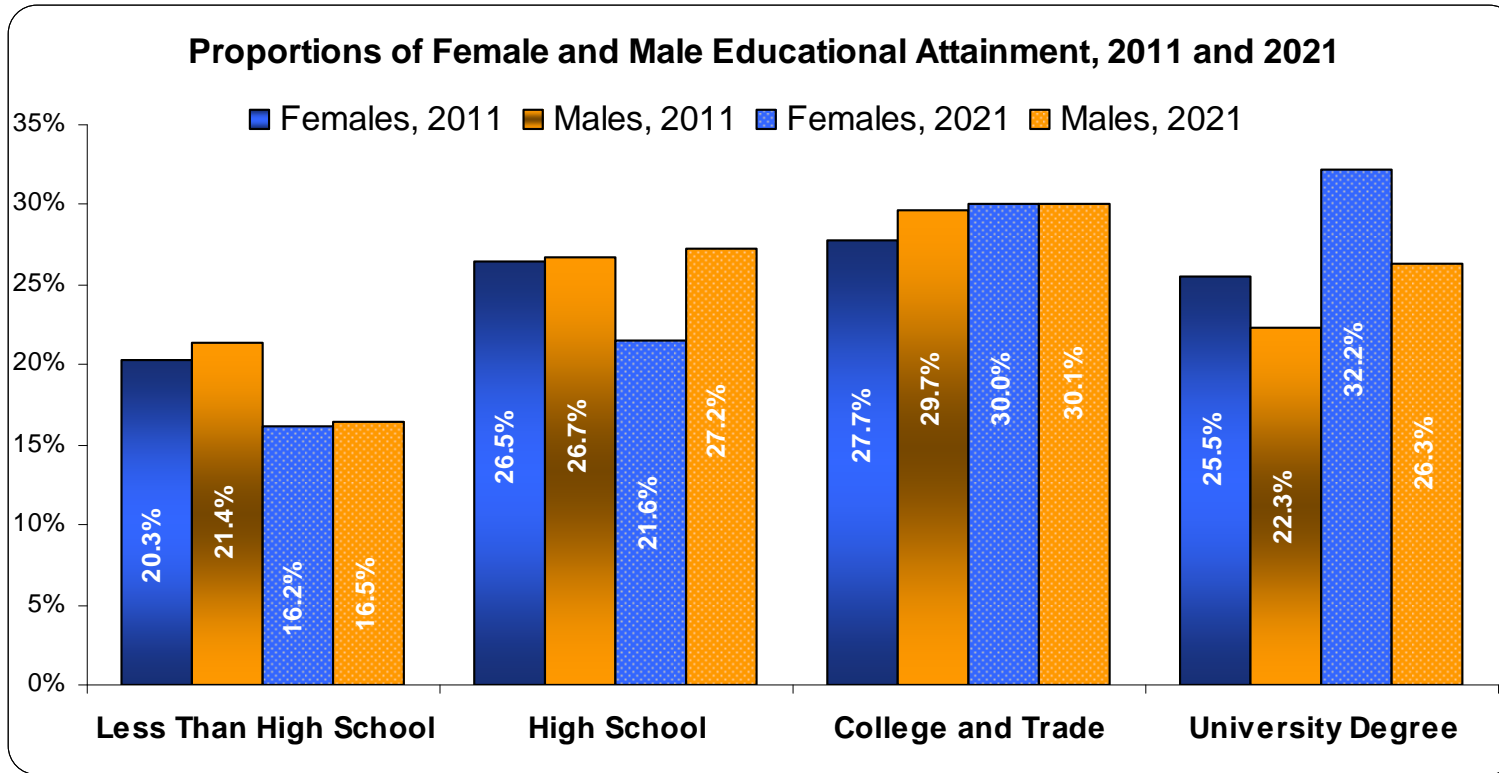
Data Source: Alberta Regional Occupation Outlook: Occupation by Skill Outlook, 2012-2016





# Alberta

## Educational Attainment by Sex, 2011-2021



Data Source: Alberta's Occupational Supply Outlook Model

Note: For more information, please refer to

Alberta's Occupational Supply Outlook Model: Education and Skills 2011-2021



## Overall Outlook

- According to Alberta's 2012-13 Third Quarter Fiscal Update and Economic Statement, GDP growth in Alberta is expected to moderate to a more sustainable rate of 2.9% in 2013.
- Oil prices in the US are expected to moderate slightly due to increasing domestic production. The price differential between West Texas Intermediate and Alberta's bitumen is likely to widen as a result. With no new routes to other markets, oilsands production may be adversely impacted.
- Business conditions in non-energy sectors are expected to continue improving.
- Cost pressures are expected to stay fairly contained in the near term, as increasing migration levels limit growth in labour costs and interest rates stay low.
- A deepening of the recession in Europe could affect growth in emerging markets thus weighing on commodity prices.

## For More Information on Departmental Initiatives and Web Sites of Interest . . .

- **Alberta Enterprise and Advanced Education (Labour Market Information):**

[www.eae.alberta.ca/lmi](http://www.eae.alberta.ca/lmi)

- **Alberta Learning Information Service:**

[www.alis.alberta.ca](http://www.alis.alberta.ca)

- **Canada-Alberta JOBS (Job Order Bank Service):**

[www.jobbank.gc.ca](http://www.jobbank.gc.ca)

- **Statistics Canada:**

[www.statcan.gc.ca](http://www.statcan.gc.ca)

- **Alberta-Canada (Immigration Information)**

[www.albertacanada.com](http://www.albertacanada.com)