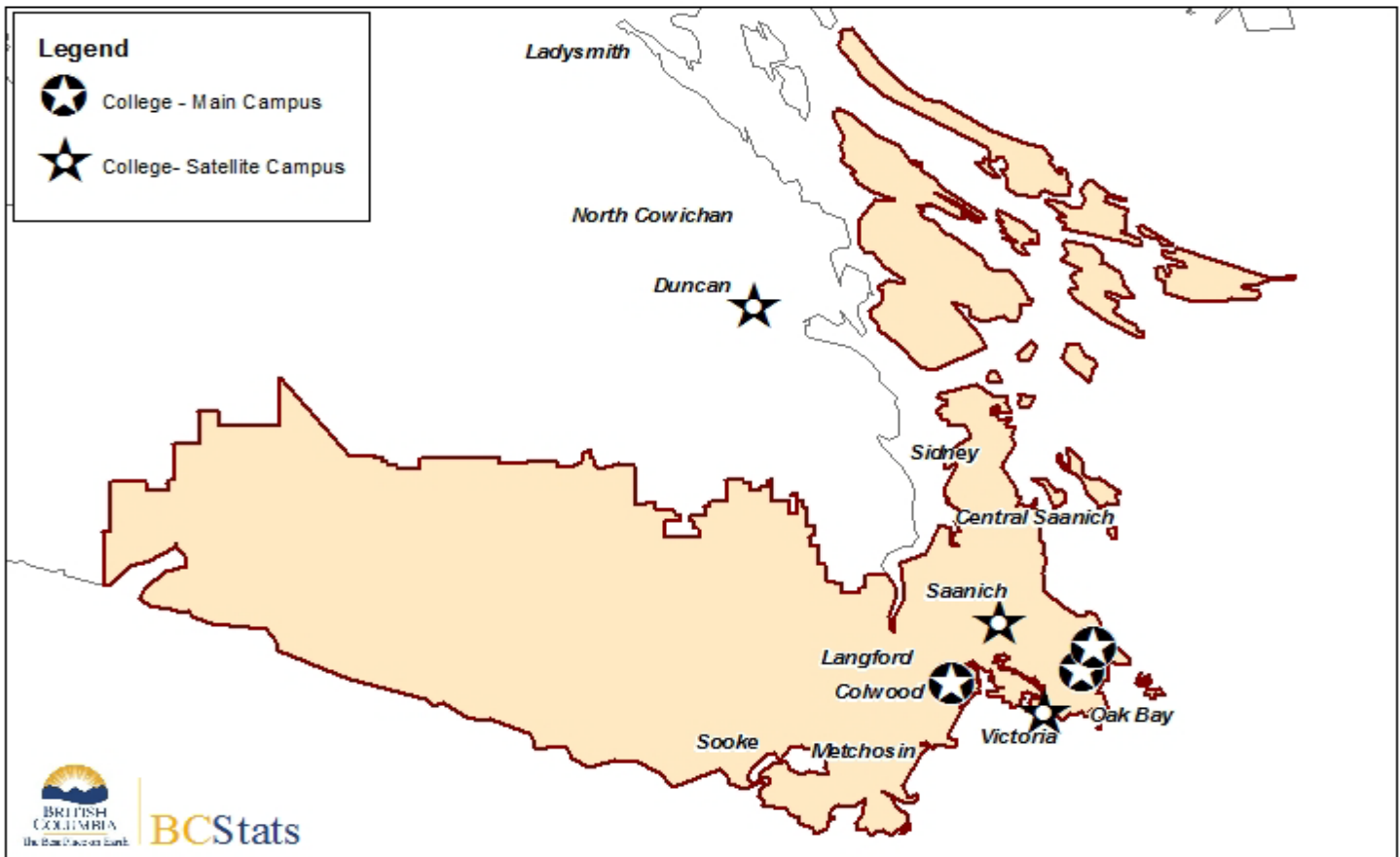


British Columbia: Regional Employment Projection Model
INDUSTRY AND OCCUPATION PROJECTIONS: 2008 to 2013
Camosun College Region



Geographic Location of Population				
Major Cities	Population 2006 Census	% of Region	Land Area Sq Km	Population Density Persons per Sq Km
Saanich, DM	108,265	31.4	103.4	1,046.6
Victoria, C	78,057	22.6	19.7	3,966.3
Langford, C	22,459	6.5	39.6	567.9
Oak Bay, DM	17,908	5.2	10.4	1,725.2
Esquimalt, DM	16,840	4.9	7.0	2,392.0
Central Saanich, DM	15,745	4.6	41.4	380.1
Colwood, C	14,687	4.3	17.8	827.0
Sidney, T	11,315	3.3	5.0	2,245.0
North Saanich, DM	10,823	3.1	37.1	291.4
Sooke, DM	9,704	2.8	50.0	194.0
View Royal, T	8,768	2.5	14.5	605.5
Metchosin, DM	4,795	1.4	71.3	67.2
Highlands, DM	1,903	0.6	37.9	50.3
Rest of region	23,895	6.9	1,907.9	12.5
Total Region	345,164	100.0	2,363.0	146.1
Region as % of BC	8.4		0.3	
Youth age 15-29	64,410			
Youth in Region as % of BC	8.2			

Note to Users

All assumptions relating to employment are based on past conditions, modified wherever possible to take into consideration future changes. The resulting employment projections are not necessarily what will be, but rather what could be, given the realization of these conditions. It is certainly possible that unforeseen changes in factors such as economic development, government policy, or land use and zoning will affect future employment. Consequently, the projections should only be regarded as one possible scenario on the future size and distribution of the workforce.

It is important for users to understand that the same set of industries and occupations are reported for each of the 12 College Regions, regardless of the importance of these industries to any particular regional economy. Some of these industries, while significant to the province overall, may have a very small presence in a particular region. For example, the Beverage Manufacturing industry could show up as the highest growth rate for each region of the province because the wine industry is expected to grow, but this would mean the Okanagan College Region would gain hundreds of jobs while the Northwest would gain 5 to 10 jobs at the most. For this reason, growth rates should be viewed in the context of the size of the occupational or industry grouping to clarify the number of jobs being created or lost and the potential impact the change would have on the local economy.

For information on the Regional Districts contained in the College Regions, see [Appendix 3: REGIONAL DISTRICT TO COLLEGE REGION CONVERSION FOR REPM](#).

The December 2008 version of the Major Projects Inventory was used in the development of the employment projections for the 2008-2013 version of the REPM. A full listing of all the Major Projects under construction or at the proposal stage can be found at http://www.bcstats.gov.bc.ca/pubs/pr_mproj.asp

Regional Employment Projection Model (REPM)

Contents

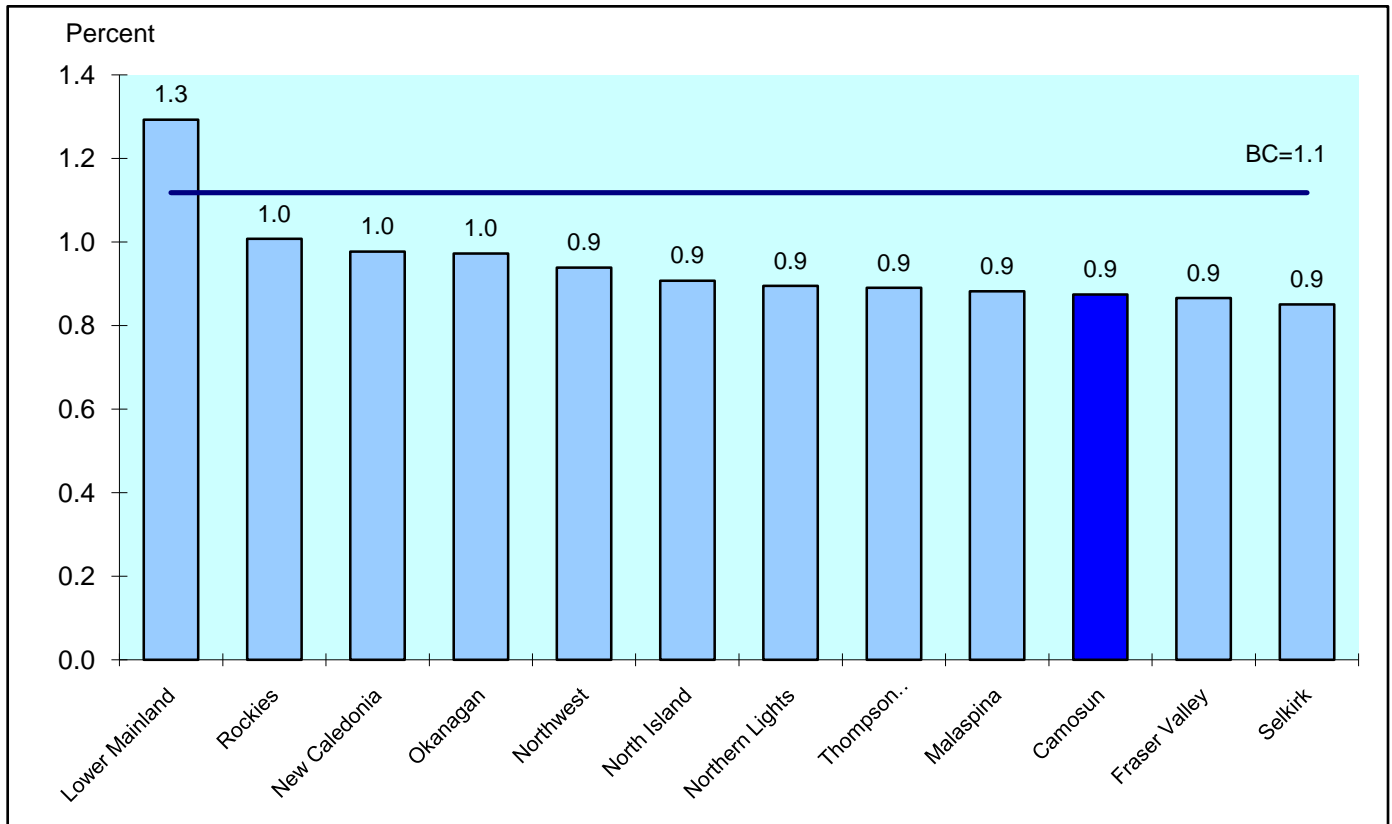
1. Projected Annual Growth in Employment Demand by College Region
2. Projected Annual Growth in Employment Demand. Comparison between Industries
3. Industrial Structure Compared with BC. Percent Share of Employment by Industry
4. Projected Annual Growth in Employment Demand. Comparison between Occupations
5. Occupational Structure Compared with BC. Percent Share of Employment by Occupation
6. Projected Annual Growth Rates in Occupational Demand, 2-digit occupation

Appendices

1. Summary of the Methodology for the BC REPM
2. COPS Industry Conversion for REPM
3. Regional District to College Region Conversion for REPM
4. Projected Annual Growth Rates in Occupational Demand (3-digit)
5. Projected Annual Growth Rates in Occupational Demand (4-digit)

Funding for this project was made possible through the Labour Market Information initiative under the Canada-British Columbia Labour Market Agreement (LMA), which is administered for B.C. by the Ministry of Advanced Education and Labour Market Development.

Projected Annual Growth in Employment Demand by College Region*



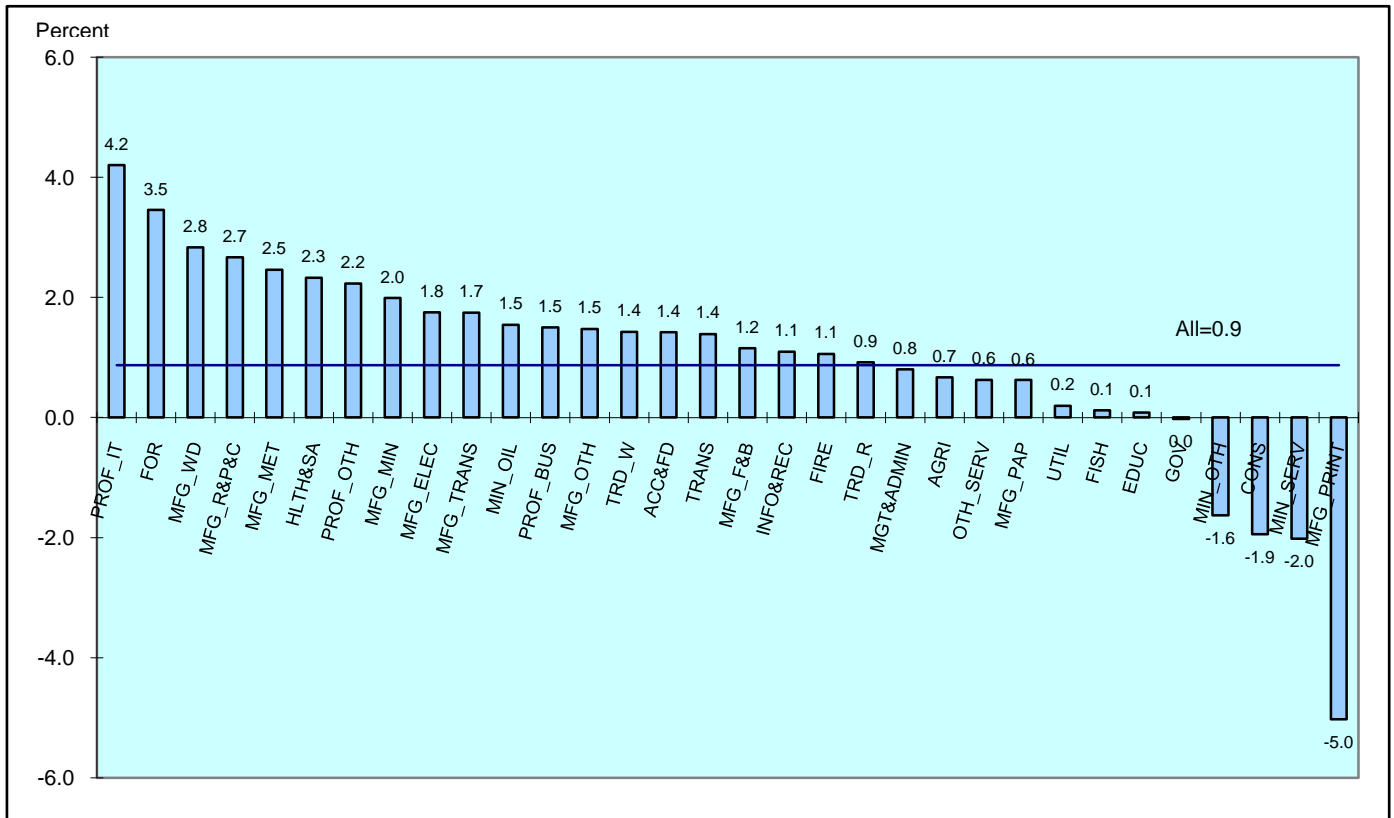
<u>College Region*</u>	<u>Estimated Employment</u>		<u>Avg Annual %</u>
	<u>2008</u>	<u>2013</u>	<u>Chng Over 5</u>
			<u>Years</u>
			<u>2008 to 2013</u>
Camosun	198,090	206,750	0.9
Fraser Valley	135,090	140,940	0.9
Lower Mainland	1,249,300	1,330,070	1.3
Malaspina	111,810	116,750	0.9
New Caledonia	76,330	80,060	1.0
North Island	76,880	80,370	0.9
Northern Lights	44,800	46,810	0.9
Northwest	38,710	40,530	0.9
Okanagan	202,660	212,520	1.0
Rockies	45,290	47,570	1.0
Selkirk	41,410	43,170	0.9
Thompson Rivers	93,310	97,470	0.9
Total	2,313,700	2,443,000	1.1

* See Appendix 3 for details on the Regional Districts included in the College Regions.

Camosun College Region

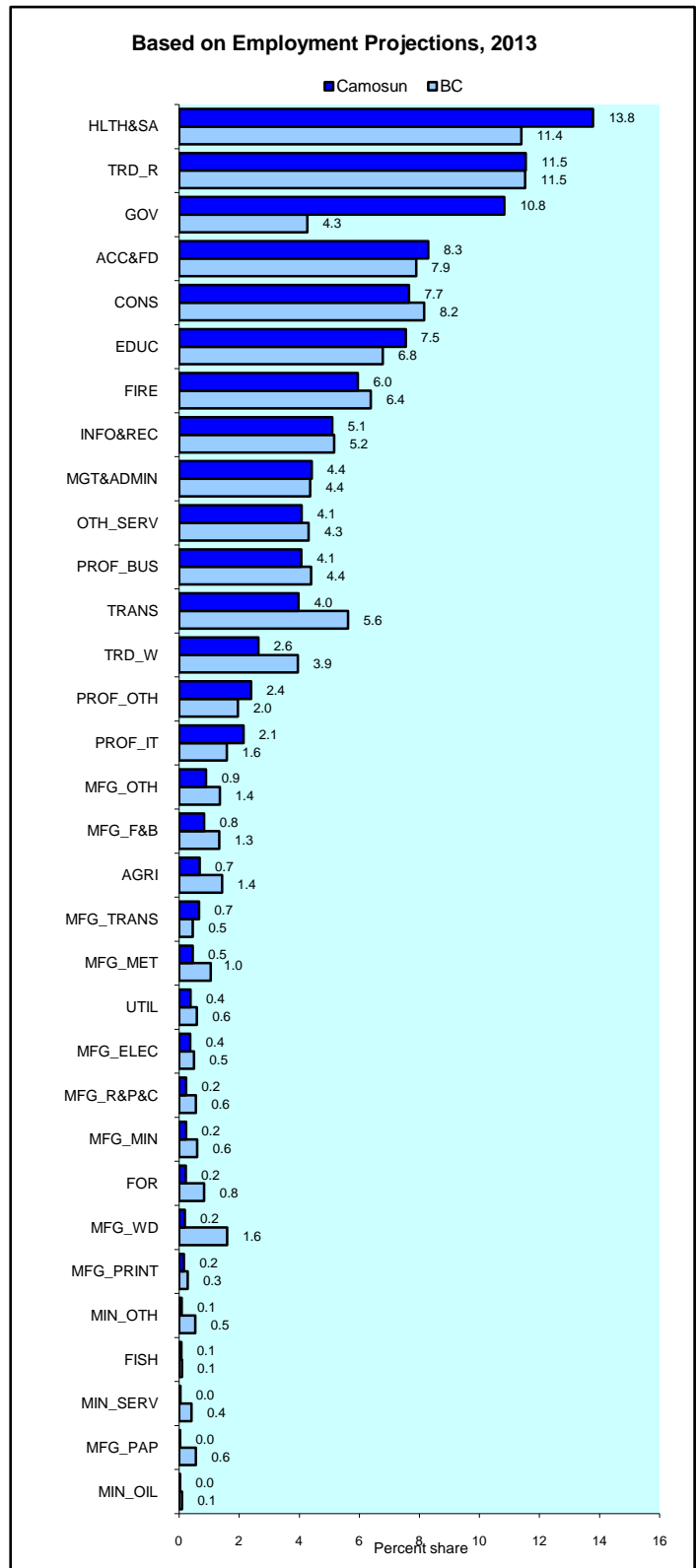
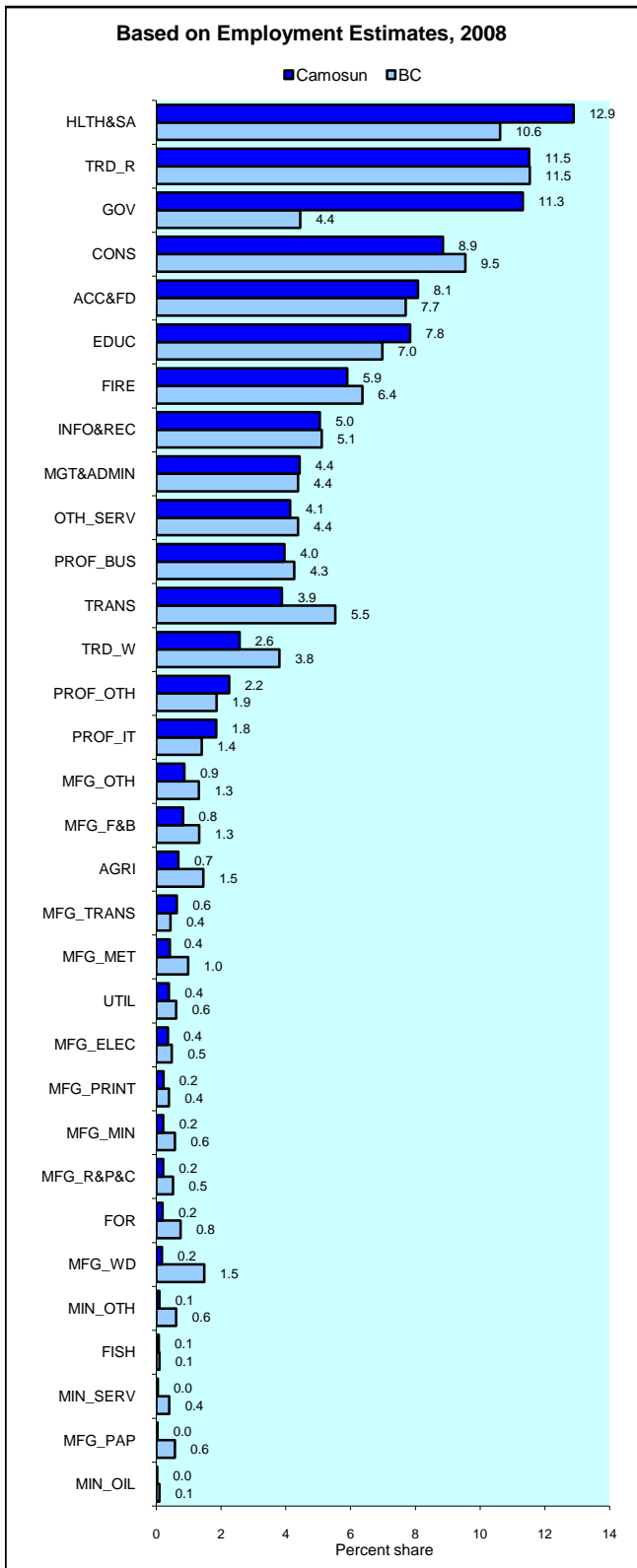
Projected Annual Growth in Employment Demand

Comparison Between Industries



	Avg Annual % Chng Over 5 Years				Avg Annual % Chng Over 5 Years		
	Estimated Employment 2008	Estimated Employment 2013	2008 to 2013		Estimated Employment 2008	Estimated Employment 2013	2008 to 2013
Goods Producing Ind				Service Producing Ind.			
Agriculture	1,360	1,400	0.7	Trade--Wholesale	5,090	5,450	1.4
Forestry	390	450	3.5	Trade--Retail	22,820	23,870	0.9
Fishing, Hunting, & Trapping	160	160	0.1	Transportation	7,690	8,230	1.4
Oil & Gas	60	60	1.5	Finance, Insurance, R.E.	11,680	12,300	1.1
Mining (non Oil & Gas)	200	180	-1.6	Prof--Bus Services	7,830	8,420	1.5
Services to Mining	90	80	-2.0	Prof--Computer Systems	3,660	4,430	4.2
Utilities	780	790	0.2	Prof--Other Services	4,450	4,950	2.2
Construction	17,530	15,830	-1.9	Management/Admin/Other Supp	8,770	9,120	0.8
Mfg--Food & Beverages	1,630	1,730	1.2	Education	15,530	15,600	0.1
Mfg--Wood Products	340	390	2.8	Health & Social Assist.	25,530	28,500	2.3
Mfg--Paper Products	70	70	0.6	Information, Culture, Rec	10,000	10,550	1.1
Mfg--Printing	440	330	-5.0	Accom & Food Services	16,010	17,150	1.4
Mfg--Rubber, Plas. Chem	420	480	2.7	Services--other	8,180	8,440	0.6
Mfg--Mineral Products	430	470	2.0	Government	22,420	22,390	0.0
Mfg--Metal Fab & Machinery	830	940	2.5				
Mfg--Comp, Electronic, Elect	710	770	1.8	Total Service Producing	169,670	179,400	1.1
Mfg--Transportation Eq.	1,260	1,360	1.7				
Mfg--Other	1,720	1,840	1.5	Total, all industries	198,090	206,750	0.9
Total Goods Producing	28,420	27,350	-0.8				

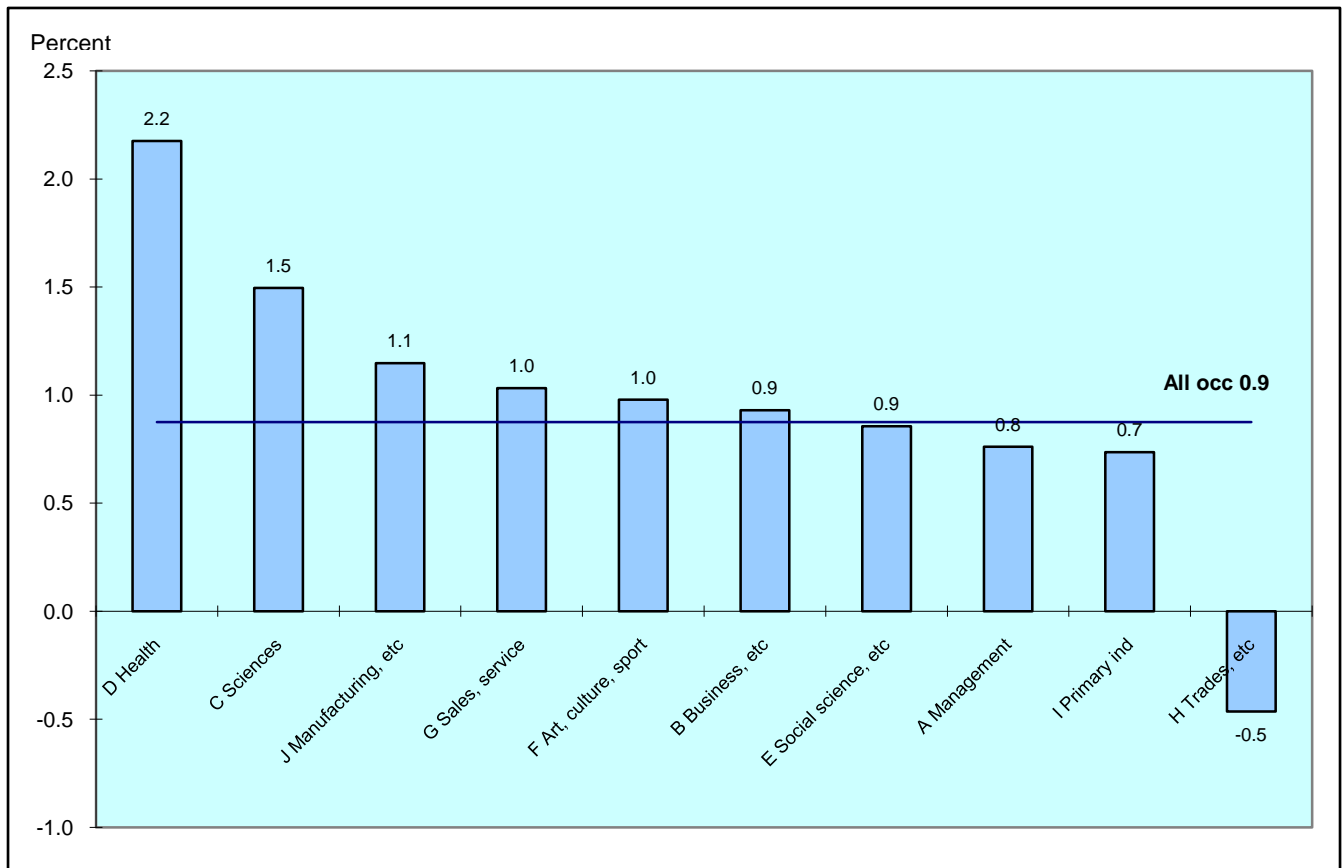
Camosun College Region Industrial Structure Compared with BC Percent Share of Employment by Industry



Camosun College Region

Projected Annual Growth in Employment Demand

Comparison Between Occupations

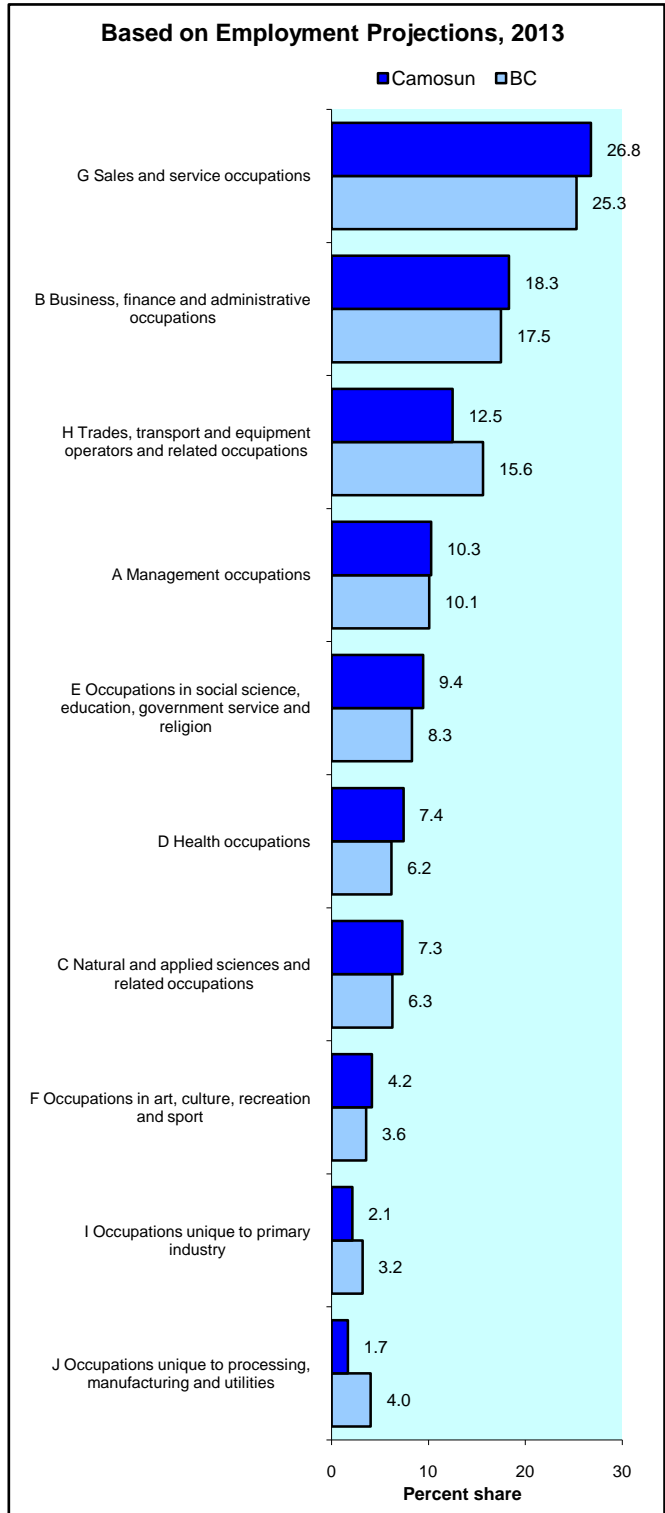
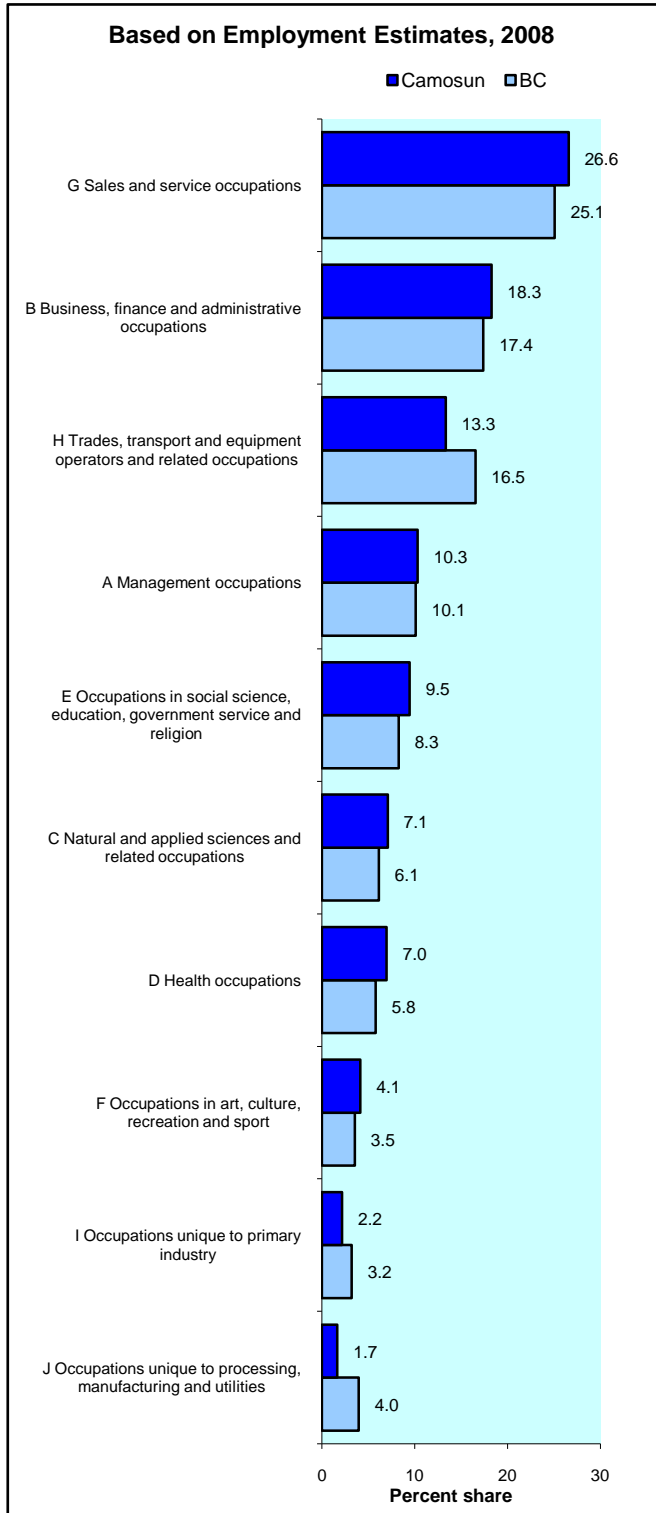


	Estimated Employment		Avg Annual % Chng Over 5 Years
	2008	2013	2008 to 2013
All occupations	198,090	206,750	0.9
A Management occupations	20,450	21,230	0.8
B Business finance and administrative occupations	36,190	37,880	0.9
C Natural and applied sciences and related occupations	14,050	15,100	1.5
D Health occupations	13,830	15,340	2.2
E Occupations in social science, education, government serv, & religion	18,730	19,530	0.9
F Occupations in art culture recreation and sport	8,220	8,620	1.0
G Sales and service occupations	52,640	55,360	1.0
H Trades transport and equipment operators and related occupations	26,430	25,820	-0.5
I Occupations unique to primary industry	4,280	4,440	0.7
J Occupations unique to processing manufacturing and utilities	3,280	3,470	1.1

Camosun College Region

Occupational Structure Compared with BC

Percent Share of Employment by Occupation



Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
All occupations	198,090	206,750	0.9
A0 Senior management occupations	2,240	2,340	0.8
A1 Specialist managers	4,340	4,600	1.2
A2 Managers in retail trade food and accommodation services	5,980	6,310	1.1
A3 Other managers n.e.c.	7,880	8,000	0.3
B0 Professional occupations in business and finance	5,110	5,380	1.0
B1 Finance and insurance administration occupations	2,830	2,960	0.9
B2 Secretaries	2,870	2,990	0.8
B3 Administrative and regulatory occupations	5,410	5,600	0.7
B4 Clerical supervisors	810	850	1.0
B5 Clerical occupations	19,230	20,160	1.0
C0 Professional occupations in natural and applied sciences	8,000	8,740	1.8
C1 Technical occupations related to natural and applied sciences	6,060	6,370	1.0
D0 Professional occupations in health	2,830	3,140	2.1
D1 Nurse supervisors and registered nurses	4,230	4,710	2.3
D2 Technical and related occupations in health	3,150	3,480	2.1
D3 Assisting occupations in support of health services	3,590	3,980	2.2
E0 Judges, lawyers, psychologists, social workers, ministers of religion & policy/program officers	5,930	6,270	1.1
E1 Teachers and professors	8,150	8,200	0.1
E2 Paralegals, social services workers & occup. in educ. & religion n.e.c.	4,640	5,050	1.8
F0 Professional occupations in art and culture	3,990	4,160	0.9
F1 Technical occupations in art, culture, recreation and sport	4,260	4,490	1.1
G0 Sales and service supervisors	1,780	1,880	1.1
G1 Wholesale, technical, insurance, real estate sales specialists & retail, wholesale and grain buyers	3,100	3,280	1.2
G2 Retail salespersons and sales clerks	10,080	10,550	0.9
G3 Cashiers	3,430	3,590	1.0
G4 Chefs and cooks	3,290	3,520	1.4
G5 Occupations in food and beverage service	3,650	3,910	1.4
G6 Occupations in protective services	4,730	4,770	0.2
G7 Occup. in travel & accommodation incl. attendants in recreation & sport	1,930	2,040	1.2
G8 Childcare and home support workers	3,980	4,240	1.3
G9 Sales and service occupations n.e.c.	16,820	17,730	1.1
H0 Contractors and supervisors in trades and transportation	1,400	1,330	-1.0
H1 Construction trades	8,890	8,200	-1.6
H2 Stationary engineers, power stn operators & electrical trades & telecom.	1,870	1,810	-0.7
H3 Machinists, metal forming, shaping and erecting occupations	1,370	1,430	0.8
H4 Mechanics	2,310	2,370	0.5
H5 Other trades n.e.c.	1,180	1,190	0.1
H6 Heavy equipment and crane operators including drillers	940	900	-1.0
H7 Transport equipment operators & related workers, excl. labourers	4,510	4,750	1.1
H8 Trades helpers, construction and transport labourers & related	4,070	3,970	-0.5
I0 Occupations unique to agriculture, excluding labourers	1,590	1,650	0.7

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
I1 Occup. unique to forestry ops, mining, oil & gas extraction, fishing excl. labourers	350	360	0.9
I2 Primary production labourers	2,370	2,460	0.8
J0 Supervisors in manufacturing	240	250	1.3
J1 Machine operators in manufacturing	1,370	1,430	0.8
J2 Assemblers in manufacturing	1,010	1,090	1.6
J3 Labourers in processing, manufacturing and utilities	720	760	1.2

Appendix 1

Summary of Methodology for the British Columbia Regional Employment Projection Model (REPM)

Summary of Methodology for the British Columbia Regional Employment Projection Model (REPM)

Overview

The methodology used in the model is based on previous work on community dependencies carried out by BC Stats. The fundamental premise is that the economy of a region can be represented by income flows that can be classified as “basic” (or driver) and “non-basic” (or induced) depending on the source of the income. Basic income is the result of employment income generated from “basic jobs” plus investment income.

Included among basic jobs are those that are financed from resources emanating from outside the region. These jobs are labelled as “direct jobs” and are found in industries that export their product internationally, nationally or to other regions within B.C. Typically, export industries are in the goods producing sector, e.g., the primary and manufacturing industries. However, with globalization, certain industries in the service producing sector are increasingly exporting their products; examples of this would be port facilities (categorized in the Water Transport industry), the Financial and Insurance industries, and High Technology Business Service industries (such as Engineering), etc. As well, the metropolitan regions provide retail and wholesale trade services to the outlying regions of B.C. and many local economies provide tourism services such as accommodation, food, and recreation services to residents from other regions (both inside and outside the province).

Another less obvious component of direct jobs are those in the public sector. Education, health and government jobs are generated through tax revenues from the Federal or Provincial governments so those industries rely on general tax revenues coming from outside the region¹.

The other component of basic jobs is classified as “indirect jobs”. The model calculates indirect employment effects from employment changes in direct jobs. For example, when direct jobs are created in a local sawmill, indirect jobs will be created in the “upstream” industries that supply goods and services that go into the production of lumber such as the logging industry, the equipment manufacturing industry, etc., and in the “downstream” industries that get the lumber to market such as the transportation industry, and the wholesale trade industry, etc. The model calculates these indirect jobs using multipliers based on inter-industry linkages from the British Columbia Input-Output Model. The sum of the direct jobs and the indirect jobs are labelled basic jobs. The wages and salaries earned from these basic jobs are the major component of basic income.

The other component of basic income is principally investment income and transfer payments which are assumed to come from outside the local community. Private pensions comprise a large percent of investment income, while Canada Pension Plan and Old Age Security payments form a large percent of transfer payments. Therefore, the growth in the senior population is used as an indicator of changes in this non-salary/non-wage component of basic income.

¹ For the purpose of the model, tax payments are treated as an income flow-out of the regional economy and are deducted from total income so are not connected with any particular industry.

Up to this point, the model has calculated the number of basic jobs by industry and the total basic income of the local region. The next step is to calculate the number of jobs created as a result of the expenditure of this basic income by the local population on household goods and services such as retail trades, restaurants, transportation, residential construction, etc. These induced jobs are called “non-basic jobs” and are calculated using a multiplier based on an income to non-basic jobs ratio derived from the British Columbia Input-Output Model. The final result is a count of the number of non-basic jobs by industry which is then added to the basic jobs to derive total jobs by industry by region.

The final component of the model is to convert the industry employment levels into occupation employment levels. To this end, fixed occupation-to-industry ratios, based on the 2006 Census of Canada data, are applied. Three different ratio structures are used: one for the Vancouver Census Metropolitan Area, one for the Victoria Census Metropolitan Area, and one for the “Rest of Province”.

Data Sources

The current version of the model is benchmarked to the 2006 Census employment by Regional District (RD), and estimates are projected forward to the most up-to-date annual employment data from the Labour Force Survey (LFS). The growth rates for the direct industries from the LFS at the provincial level are used to project growth down to the RD level and then the sub-provincial growth rates are refined using standard variables that indicate differential growth between the regions. The population estimates and projections produced by BC Stats are an important data source for this purpose. For example, the employment growth in the education sector is largely dictated by the projected K-12 and post-secondary population growth in the relevant age groups. Government Services industry grows in line with the total population growth as does the social assistance industry. Employment in the health sector is primarily governed by the growth in the total population and, in particular, by the growth in the seniors' population. The industries that have components in the tourism sector are differentiated according to the sub-provincial growth rates in tax revenues derived from room rentals. A further important determining factor of sub-region direct employment growth in the private sector is the major projects underway in the timeframe.

The output from the model is benchmarked to the LFS industry employment numbers at the B.C. level, as well as to the LFS regional employment numbers for the Development Regions and the Victoria and Vancouver Census Metropolitan Areas. Once the model is updated to the most current employment levels, then the forecast is produced for five years out. The industrial employment projections from the Canadian Occupational Projection System (COPS) are now used as the source data for the industrial growth, benchmarked to the British Columbia Ministry of Finance's employment growth rate projections for the goods producing sector and the service producing sector. These growth rates are used in determining both the growth rates in the direct employment and as a benchmark to reconcile the industrial employment generated by the model. The allocation of the provincial growth pattern forecast among the regions is done the same way as the estimates. Population forecasts by Regional District and the information on planned capital projects from the BC Major Projects Inventory are used as the drivers. The one exception is there are no forecasts available

for Room Tax Revenue so, for the tourism industries, the new completed major projects in the food and accommodation sector are integrated into the model.

Currently, there is a demand for economic forecasts by occupation at the College Region level. College Regions are aggregations of sub-sets of Regional Districts. Occupational forecasts are produced at the College Region and the provincial level only. The accompanying appendices contain a conversion table which outlines which Regional District belongs to which College Region.

Updating

The intent is to update the Regional Employment Projection Model annually, based on another year of LFS data plus a new COPS forecast. The multiplier coefficients used to calculate indirect employment, non-basic employment, and occupational employment are to be updated every five years when regional updated Census data becomes available. At that time, the Regional District employment data by industry will also be re-benchmarked.

The model is only as good as the input data assumptions. Reliance on good quality data from COPS is very important. Users of the data who perceive any problems with the assumptions in the model or question the quality of any of the data series we are using, should contact Cathy Stock, Director, Labour and Social Statistics, at (250) 953-3703 or Cathy.Stock@gov.bc.ca.

July 2009

Appendix 2

REPM INDUSTRY

COPS INDUSTRY

ACC&FD	31 Accommodation and food services
AGRIC	1 Agriculture
BEVMFG	9 Food and Beverage Products
BUS_HI	25 Computer System Design Services
BUS_HI	24 Professional Business Services
BUS_HI	26 Other Professional Services
BUS_LO	27 Management, Administrative and Other Support
BUS_LO	24 Professional Business Services
BUS_LO	26 Other Professional Services
COMMUNICA	30 Information, culture and recreation
CONSTRUCT	8 Construction
EDUCATION	28 Educational Services
FIRE	23 Finance, Insurance, Real Estate and Leasing
FISHING	3 Fishing, Hunting and Trapping
FISHMFG	9 Food and Beverage Products
FOODMFG	9 Food and Beverage Products
FORESTLOG	2 Forestry and Logging with support activities
GOVT	33 Public administration
HEALTH	29 Health Care and Social Assistance
MINING	5 Mining (except Oil and Gas)
MINING	6 Support Activities for Mining and Oil & Gas Extraction
MINMFG	14 Manufactured Mineral Products
OTHMFG	12 Printing and Related Support Activities
OTHMFG	13 Rubber, Plastics and Chemicals
OTHMFG	14 Manufactured Mineral Products
OTHMFG	15 Metal Fabrication and Machinery (excluding electrical)
OTHMFG	16 Computer, Electronic and Electrical Products
OTHMFG	17 Transportation Equipment Manufacturing
OTHMFG	18 Other Manufacturing
OTHSERV	29 Health Care and Social Assistance
OTHSERV	32 Other services
PAPERPULP	11 Paper Manufacturing
PETROL	4 Oil and Gas Extraction
PETROL	6 Support Activities for Mining and Oil and Gas Extraction
PETROLMFG	19 Other Manufacturing
RETAIL	21 Retail Trade
TRANOTHER	22 Transportation and Warehousing
TRANRAIL	22 Transportation and Warehousing
TRANTRUCK	22 Transportation and Warehousing
TRANWATER	22 Transportation and Warehousing
UTILITIES	7 Utilities
WDOTHER	10 Wood Product Manufacturing
WDSAWMILLS	10 Wood Product Manufacturing
WHOLESALE	20 Wholesale Trade

Appendix 3

REGIONAL DISTRICT TO COLLEGE REGION CONVERSION FOR REPM

COLLEGE REGION REGIONAL	REGIONAL DISTRICT #	REGIONAL DISTRICT NAME	% of REGIONAL DISTRICT
CAMOSUN	17	Capital	100
FRASER VALLEY	9	Fraser Valley	100
LOWER MAINLAND	15	Greater Vancouver	100
LOWER MAINLAND	29	Sunshine Coast	100
LOWER MAINLAND	31	Squamish Lillooet	87
MALASPINA	19	Cowichan Valley	100
MALASPINA	21	Nanaimo	100
MALASPINA	27	Powell River	100
NEW CALEDONIA	41	Cariboo	37
NEW CALEDONIA	51	Bulkley Nechako	61
NEW CALEDONIA	53	Fraser-Fort George	100
NORTH ISLAND	23	Alberni-Clayoquot	100
NORTH ISLAND	25	Comox Strathcona	100
NORTH ISLAND	43	Mount Waddington	100
NORTH ISLAND	45	Central Coast	100
NORTHERN LIGHTS	49	Kitimat Stikine	2
NORTHERN LIGHTS	55	Peace River	100
NORTHERN LIGHTS	57	Stikine	100
NORTHERN LIGHTS	59	Northern Rockies	100
NORTHWEST	47	Skeena-Queen Charlotte	100
NORTHWEST	49	Kitimat Stikine	98
NORTHWEST	51	Bulkley Nechako	39
OKANAGAN	7	Okanagan- Similkameen	100
OKANAGAN	35	Central Okanagan	100
OKANAGAN	37	North Okanagan	100
OKANAGAN	39	Columbia Shushwap	85
ROCKIES	1	East Kootenay	100
ROCKIES	3	Central Kootenays	20
ROCKIES	39	Columbia Shushwap	15
SELKIRK	3	Central Kootenay	80
SELKIRK	5	Kootenay Boundary	100
THOMPSON RIVERS	31	Squamish Lillooet	13
THOMPSON RIVERS	33	Thompson Nicola	100
THOMPSON RIVERS	41	Cariboo	63

Prepared by: BC Stats

Appendix 4

Projected Annual Growth Rates in Occupational Demand (3-digit)

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
All occupations	198,090	206,750	0.9
A01 Legislators and senior management	2,200	2,290	0.8
A11 Administrative services managers	1,750	1,820	0.8
A12 Managers in engineering, architecture, science and information systems	780	850	1.7
A13 Sales, marketing and advertising managers	1,410	1,500	1.3
A14 Facility operation and maintenance managers	460	490	1.1
A21 Managers in retail trade	4,040	4,240	0.9
A22 Managers in food service and accommodation	1,950	2,080	1.4
A30 Managers in financial and business services	1,750	1,840	1.0
A31 Managers in communication (except broadcasting)	100	100	0.3
A32 Managers in health, education, social and community services	1,250	1,310	0.9
A33 Managers in public administration	590	590	0.0
A34 Managers in art, culture, recreation and sport	350	360	0.9
A35 Managers in protective service	1,150	1,150	0.0
A36 Managers in other services	470	490	0.8
A37 Managers in construction and transportation	1,620	1,520	-1.3
A38 Managers in primary production (except agriculture)	80	80	0.4
A39 Managers in manufacturing and utilities	650	680	1.0
B01 Auditors, accountants and investment professionals	3,640	3,820	1.0
B02 Human resources and business service professionals	1,460	1,550	1.2
B11 Finance and insurance administrative occupations	2,860	3,000	0.9
B21 Secretaries, recorders and transcriptionists	2,850	2,970	0.8
B31 Administrative and regulatory occupations	5,380	5,570	0.7
B41 Clerical supervisors	780	820	1.0
B51 Clerical occupations, general office skills	7,040	7,420	1.1
B52 Office equipment operators	730	750	0.7
B53 Finance and insurance clerks	3,780	3,960	0.9
B54 Administrative support clerks	1,880	1,960	0.8
B55 Library, correspondence and related information clerks	2,470	2,590	0.9
B56 Mail and message distribution occupations	1,500	1,580	1.1
B57 Recording, scheduling and distributing occupations	1,920	2,000	0.9
C01 Physical science professionals	510	540	1.2
C02 Life science professionals	780	810	0.9
C03 Civil, mechanical, electrical and chemical engineers	980	1,030	1.0
C04 Other engineers	510	540	1.4
C05 Architects, urban planners and land surveyors	650	680	1.0
C06 Mathematicians, statisticians and actuaries	90	90	0.9
C07 Computer and information systems professionals	4,670	5,230	2.4
C11 Technical occupations in physical sciences	360	380	1.0
C12 Technical occupations in life sciences	690	720	0.9
C13 Technical occupations in civil, mechanical and industrial engineering	530	530	0.0
C14 Technical occupations in electronics and electrical engineering	1,040	1,090	0.9
C15 Technical occupations in architecture, drafting, surveying and mapping	760	810	1.1
C16 Other technical inspectors and regulatory officers	380	390	0.6
C17 Transportation officers and controllers	1,090	1,150	1.1
C18 Technical occupations in computer and information systems	1,300	1,410	1.7
D01 Physicians, dentists and veterinarians	1,600	1,780	2.3

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
D02 Optometrists, chiropractors and other health diagnosing and treating professionals	230	250	2.2
D03 Pharmacists, dietitians and nutritionists	410	430	1.3
D04 Therapy and assessment professionals	690	760	2.1
D11 Nurse supervisors and registered nurses	4,250	4,730	2.3
D21 Medical technologists and technicians (except dental health)	1,230	1,360	2.2
D22 Technical occupations in dental health care	400	440	2.1
D23 Other technical occupations in health care (except dental)	1,640	1,800	2.0
D31 Assisting occupations in support of health services	3,600	3,990	2.2
E01 Judges, lawyers and Quebec notaries	1,190	1,250	1.1
E02 Psychologists, social workers, counsellors, clergy and probation officers	1,890	2,030	1.5
E03 Policy and program officers, researchers and consultants	2,910	3,040	0.9
E11 University professors and assistants	2,810	2,820	0.1
E12 College and other vocational instructors	1,340	1,360	0.3
E13 Secondary and elementary school teachers and educational counsellors	4,050	4,070	0.1
E21 Paralegals, social services workers and occupations in education and religion, n.e.c.	4,660	5,070	1.8
F01 Librarians, archivists, conservators and curators	340	360	0.8
F02 Writing, translating and public relations professionals	1,750	1,830	1.0
F03 Creative and performing artists	1,960	2,030	0.7
F11 Technical occupations in libraries, archives, museums and art galleries	340	350	0.9
F12 Photographers, graphic arts technicians and technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts	670	720	1.4
F13 Announcers and other performers	100	110	1.0
F14 Creative designers and craftspersons	1,530	1,630	1.2
F15 Athletes, coaches, referees and related occupations	1,700	1,780	0.9
G01 Sales and service supervisors	1,800	1,900	1.1
G11 Sales representatives, wholesale trade	1,450	1,540	1.2
G12 Technical sales specialists, wholesale trade	290	320	1.8
G13 Insurance and real estate sales occupations and buyers	1,360	1,430	1.1
G21 Retail salespersons and sales clerks	10,070	10,540	0.9
G31 Cashiers	3,420	3,590	1.0
G41 Chefs and cooks	3,310	3,540	1.4
G51 Occupations in food and beverage service	3,630	3,890	1.4
G61 Police officers and firefighters	910	910	0.0
G62 Other occupations in protective service	2,960	2,960	0.0
G63 Security guards and related occupations	930	970	0.9
G71 Occupations in travel and accommodation	1,170	1,240	1.2
G72 Tour and recreational guides and casino occupations	510	540	0.9
G73 Other occupations in travel, accommodation, amusement and recreation	300	320	1.1
G81 Child care and home support workers	3,980	4,240	1.3
G91 Technical occupations in personal service	980	1,000	0.6
G92 Other occupations in personal service	750	780	0.8
G93 Cleaners	6,090	6,380	1.0
G94 Butchers and bakers, retail and wholesale	930	980	1.0
G96 Food counter attendants, kitchen helpers and related occupations	5,000	5,360	1.4
G97 Other sales and related occupations	2,570	2,700	1.0
G98 Other elemental service occupations	630	670	1.1

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
H01 Contractors and supervisors, trades and related workers	1,400	1,320	-1.1
H02 Supervisors, railway and motor transportation occupations	50	50	1.3
H11 Plumbers, pipefitters and gas fitters	980	920	-1.3
H12 Carpenters and cabinetmakers	3,900	3,610	-1.5
H13 Masonry and plastering trades	1,200	1,100	-1.6
H14 Other construction trades	2,850	2,610	-1.7
H21 Electrical trades and telecommunications occupations	1,810	1,740	-0.7
H22 Stationary engineers and power station and system operators	90	100	1.0
H31 Machinists and related occupations	370	400	1.4
H32 Metal forming, shaping and erecting trades	1,010	1,050	0.7
H41 Machinery and transportation equipment mechanics (except motor vehicle)	730	740	0.3
H42 Automotive service technicians	1,260	1,310	0.8
H43 Other mechanics	360	370	0.4
H51 Upholsterers, tailors, shoe repairers, jewellers and related occupations	320	330	0.9
H52 Printing press operators, commercial divers and other trades and related occupations, n.e.c.	210	220	0.3
H53 Other installers, repairers and servicers	660	650	-0.2
H61 Heavy equipment operators	860	820	-0.9
H62 Crane operators, drillers and blasters	170	160	-0.7
H71 Motor vehicle and transit drivers	3,920	4,130	1.1
H72 Train crew operating occupations	20	20	1.4
H73 Other transport equipment operators and related workers	620	650	0.9
H81 Longshore workers and material handlers	1,230	1,300	1.1
H82 Trades helpers and labourers	2,520	2,350	-1.4
H83 Public works and other labourers, n.e.c.	360	370	0.5
I01 Contractors, operators and supervisors in agriculture, horticulture and aquaculture	990	1,020	0.7
I02 Agriculture and horticulture workers	620	640	0.8
I11 Supervisors, logging and forestry	30	40	1.9
I12 Supervisors, mining, oil and gas	40	40	0.2
I13 Underground miners, oil and gas drillers and related workers	60	60	-0.5
I14 Mine service workers and operators in oil and gas drilling	10	10	1.1
I15 Logging machinery operators	30	30	3.1
I16 Logging and forestry workers	130	140	1.6
I17 Fishing vessel masters and skippers and fishermen/women	120	120	0.1
I18 Other fishing and trapping occupations	30	30	0.4
I21 Primary production labourers	2,360	2,440	0.7
J01 Supervisors, processing occupations	140	150	0.6
J02 Supervisors, assembly and fabrication	110	120	1.3
J11 Central control and process operators in manufacturing and processing	30	30	1.4
J12 Machine operators and related workers in metal and mineral products processing	110	120	1.5
J13 Machine operators and related workers in chemical, plastic and rubber processing	170	170	0.5
J14 Machine operators and related workers in pulp and paper production and wood processing	70	80	1.9
J15 Machine operators and related workers in textile processing	30	30	1.5

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
J16 Machine operators and related workers in fabric, fur and leather products manufacturing	150	150	0.9
J17 Machine operators and related workers in food, beverage and tobacco processing	350	370	1.2
J18 Printing machine operators and related occupations	270	260	-1.2
J19 Machining, metalworking, woodworking and related machine operators	280	310	1.8
J21 Mechanical, electrical and electronics assemblers	290	310	1.7
J22 Other assembly and related occupations	780	840	1.5
J31 Labourers in processing, manufacturing and utilities	760	800	1.2

Appendix 5

Projected Annual Growth Rates in Occupational Demand (4-digit)

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
All occupations	198,090	206,750	0.9
A Management occupations	20,450	21,230	0.8
A0 Senior management occupations	2,240	2,340	0.8
A01 Legislators and senior management	2,200	2,290	0.8
A011 Legislators	80	80	0.0
A012 Senior government managers and officials	520	520	0.0
A013 Senior managers - Financial, communications and other business services	550	610	2.1
A014 Senior managers - Health, education, social and community services and membership organizations	300	320	1.1
A015 Senior managers - Trade, broadcasting and other services, n.e.c.	390	410	1.2
A016 Senior managers - Goods production, utilities, transportation and construction	430	420	-0.3
A1 Specialist managers	4,340	4,600	1.2
A11 Administrative services managers	1,750	1,820	0.8
A111 Financial managers	650	680	0.8
A112 Human resources managers	400	420	0.9
A113 Purchasing managers	90	90	1.2
A114 Other administrative services managers	740	770	0.9
A12 Managers in engineering, architecture, science and information systems	780	850	1.7
A121 Engineering managers	190	200	1.2
A122 Computer and information systems managers	550	600	1.8
A123 Architecture and science managers	100	100	1.3
A13 Sales, marketing and advertising managers	1,410	1,500	1.3
A131 Sales, marketing and advertising managers	1,380	1,460	1.2
A14 Facility operation and maintenance managers	460	490	1.1
A141 Facility operation and maintenance managers	470	500	1.1
A2 Managers in retail trade, food and accommodation services	5,980	6,310	1.1
A21 Managers in retail trade	4,040	4,240	0.9
A211 Retail trade managers	4,040	4,230	0.9
A22 Managers in food service and accommodation	1,950	2,080	1.4
A221 Restaurant and food service managers	1,340	1,430	1.4
A222 Accommodation service managers	680	730	1.4
A3 Other managers, n.e.c.	7,880	8,000	0.3
A30 Managers in financial and business services	1,750	1,840	1.0
A301 Insurance, real estate and financial brokerage managers	1,040	1,090	1.0
A302 Banking, credit and other investment managers	760	800	1.1
A303 Other business services managers	70	80	1.2
A31 Managers in communication (except broadcasting)	100	100	0.3
A311 Telecommunication carriers managers	50	50	-0.6
A312 Postal and courier services managers	40	40	1.4
A32 Managers in health, education, social and community services	1,250	1,310	0.9
A321 Managers in health care	330	360	2.0
A322 Administrators - Post-secondary education and vocational training	310	310	0.2
A323 School principals and administrators of elementary and secondary education	310	310	0.1
A324 Managers in social, community and correctional services	320	340	1.4
A33 Managers in public administration	590	590	0.0

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	2008	2013	2008 to 2013
A331 Government managers - Health and social policy development and program administration	210	210	0.2
A332 Government managers - Economic analysis, policy development and program administration	200	200	0.2
A333 Government managers - Education policy development and program administration	80	80	0.0
A334 Other managers in public administration	110	110	0.0
A34 Managers in art, culture, recreation and sport	350	360	0.9
A341 Library, archive, museum and art gallery managers	90	100	1.0
A342 Managers - Publishing, motion pictures, broadcasting and performing arts	160	160	0.9
A343 Recreation, sports and fitness program and service directors	130	140	1.0
A35 Managers in protective service	1,150	1,150	0.0
A351 Commissioned police officers	40	40	0.0
A352 Fire chiefs and senior firefighting officers	30	30	0.0
A353 Commissioned officers, armed forces	1,080	1,080	0.0
A36 Managers in other services	470	490	0.8
A361 Other services managers	450	460	0.8
A37 Managers in construction and transportation	1,620	1,520	-1.3
A371 Construction managers	880	820	-1.3
A372 Residential home builders and renovators	640	590	-1.5
A373 Transportation managers	200	210	1.1
A38 Managers in primary production (except agriculture)	80	80	0.4
A381 Primary production managers (except agriculture)	110	110	0.9
A39 Managers in manufacturing and utilities	650	680	1.0
A391 Manufacturing managers	550	580	1.2
A392 Utilities managers	110	110	0.4
B Business, finance and administrative occupations	36,190	37,880	0.9
B0 Professional occupations in business and finance	5,110	5,380	1.0
B01 Auditors, accountants and investment professionals	3,640	3,820	1.0
B011 Financial auditors and accountants	1,980	2,080	1.0
B012 Financial and investment analysts	470	490	0.7
B013 Securities agents, investment dealers and brokers	280	300	0.8
B014 Other financial officers	1,010	1,070	1.1
B02 Human resources and business service professionals	1,460	1,550	1.2
B021 Specialists in human resources	650	670	0.7
B022 Professional occupations in business services to management	820	890	1.6
B1 Finance and insurance administration occupations	2,830	2,960	0.9
B11 Finance and insurance administrative occupations	2,860	3,000	0.9
B111 Bookkeepers	1,910	2,000	1.0
B112 Loan officers	440	460	0.9
B113 Insurance adjusters and claims examiners	330	340	0.9
B114 Insurance underwriters	50	60	1.2
B115 Assessors, valuers and appraisers	220	220	0.5
B116 Customs, ship and other brokers	40	40	1.2
B2 Secretaries	2,870	2,990	0.8
B21 Secretaries, recorders and transcriptionists	2,850	2,970	0.8
B211 Secretaries (except legal and medical)	2,220	2,280	0.6

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
B212 Legal secretaries	460	490	1.3
B213 Medical secretaries	110	120	2.2
B214 Court recorders and medical transcriptionists	120	130	1.8
B3 Administrative and regulatory occupations	5,410	5600	0.7
B31 Administrative and regulatory occupations	5,380	5570	0.7
B311 Administrative officers	2,610	2710	0.8
B312 Executive assistants	410	420	0.6
B313 Personnel and recruitment officers	200	210	0.7
B314 Property administrators	1,220	1280	0.9
B315 Purchasing agents and officers	210	210	0.5
B316 Conference and event planners	290	300	0.8
B317 Court officers and justices of the peace	60	60	0.0
B318 Immigration, employment insurance and revenue officers	450	450	0.0
B4 Clerical supervisors	810	850	1.0
B41 Clerical supervisors	780	820	1.0
B411 Supervisors, general office and administrative support clerks	210	220	1.0
B412 Supervisors, finance and insurance clerks	190	190	0.3
B413 Supervisors, library, correspondence and related information clerks	170	180	0.3
B414 Supervisors, mail and message distribution occupations	70	70	1.3
B415 Supervisors, recording, distributing and scheduling occupations	230	240	1.3
B5 Clerical occupations	19,230	20160	1.0
B51 Clerical occupations, general office skills	7,040	7420	1.1
B511 General office clerks	4,020	4160	0.7
B513 Records management and filing clerks	320	340	1.0
B514 Receptionists and switchboard operators	2,710	2940	1.7
B52 Office equipment operators	730	750	0.7
B522 Data entry clerks	590	620	0.8
B523 Desktop publishing operators and related occupations	90	90	-0.5
B524 Telephone operators	40	50	1.0
B53 Finance and insurance clerks	3,780	3960	0.9
B531 Accounting and related clerks	1,750	1830	0.9
B532 Payroll clerks	400	420	0.9
B533 Customer service representatives - Financial services	1,090	1150	1.1
B534 Banking, insurance and other financial clerks	380	400	0.8
B535 Collectors	190	190	0.8
B54 Administrative support clerks	1,880	1960	0.8
B541 Administrative clerks	1,750	1830	0.9
B542 Personnel clerks	170	180	1.1
B543 Court clerks	10	10	0.0
B55 Library, correspondence and related information clerks	2,470	2590	0.9
B551 Library clerks	200	210	1.1
B552 Correspondence, publication and related clerks	150	150	0.3
B553 Customer service, information and related clerks	1,870	1970	1.0
B554 Survey interviewers and statistical clerks	340	350	0.3
B56 Mail and message distribution occupations	1,500	1580	1.1
B561 Mail, postal and related clerks	480	510	1.1
B562 Letter carriers	430	460	1.4

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
B563 Couriers, messengers and door-to-door distributors	570	600	1.0
B57 Recording, scheduling and distributing occupations	1,920	2000	0.9
B571 Shippers and receivers	660	690	0.8
B572 Storekeepers and parts clerks	270	280	0.9
B573 Production clerks	210	220	0.8
B574 Purchasing and inventory clerks	370	390	0.8
B575 Dispatchers and radio operators	510	520	0.7
B576 Transportation route and crew schedulers	100	100	1.6
C Natural and applied sciences and related occupations	14,050	15100	1.5
C0 Professional occupations in natural and applied sciences	8,000	8740	1.8
C01 Physical science professionals	510	540	1.2
C011 Physicists and astronomers	80	80	1.2
C012 Chemists	160	170	1.4
C013 Geologists, geochemists and geophysicists	250	260	1.0
C014 Meteorologists	30	30	1.4
C015 Other professional occupations in physical sciences	30	30	1.4
C02 Life science professionals	780	810	0.9
C021 Biologists and related scientists	570	600	1.1
C022 Forestry professionals	180	180	0.5
C023 Agricultural representatives, consultants and specialists	30	40	0.9
C03 Civil, mechanical, electrical and chemical engineers	980	1030	1.0
C031 Civil engineers	560	590	0.8
C032 Mechanical engineers	210	230	1.3
C033 Electrical and electronics engineers	240	260	1.2
C034 Chemical engineers	30	30	1.9
C04 Other engineers	510	540	1.4
C041 Industrial and manufacturing engineers	80	80	0.8
C042 Metallurgical and materials engineers	50	50	0.2
C043 Mining engineers	10	10	1.5
C044 Geological engineers	30	30	0.7
C045 Petroleum engineers	20	20	1.1
C046 Aerospace engineers	20	20	0.8
C047 Computer engineers (except software engineers)	260	290	1.9
C048 Other professional engineers, n.e.c.	140	150	1.0
C05 Architects, urban planners and land surveyors	650	680	1.0
C051 Architects	250	260	1.1
C052 Landscape architects	30	30	0.9
C053 Urban and land use planners	200	200	0.5
C054 Land surveyors	150	160	1.4
C06 Mathematicians, statisticians and actuaries	90	90	0.9
C061 Mathematicians, statisticians and actuaries	100	110	1.0
C07 Computer and information systems professionals	4,670	5,230	2.4
C071 Information systems analysts and consultants	2,120	2,340	2.1
C072 Database analysts and data administrators	260	270	1.4
C073 Software engineers and designers	330	380	2.9
C074 Computer programmers and interactive media developers	1,530	1,740	2.8
C075 Web designers and developers	470	540	2.6

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
	C1 Technical occupations related to natural and applied sciences	6,060	6,370
C11 Technical occupations in physical sciences	360	380	1.0
C111 Chemical technologists and technicians	260	270	1.0
C112 Geological and mineral technologists and technicians	90	100	1.1
C113 Meteorological technicians	10	20	1.0
C12 Technical occupations in life sciences	690	720	0.9
C121 Biological technologists and technicians	170	180	1.4
C122 Agricultural and fish products inspectors	30	30	0.7
C123 Forestry technologists and technicians	180	190	1.1
C124 Conservation and fishery officers	70	80	0.2
C125 Landscape and horticultural technicians and specialists	350	360	0.8
C13 Technical occupations in civil, mechanical and industrial engineering	530	530	0.0
C131 Civil engineering technologists and technicians	190	190	0.6
C132 Mechanical engineering technologists and technicians	110	110	0.9
C133 Industrial engineering and manufacturing technologists and technicians	70	80	1.4
C134 Construction estimators	210	200	-1.3
C14 Technical occupations in electronics and electrical engineering	1,040	1,090	0.9
C141 Electrical and electronics engineering technologists and technicians	390	400	0.6
C142 Electronic service technicians (household and business equipment)	640	670	1.1
C143 Industrial instrument technicians and mechanics	70	70	0.7
C144 Aircraft instrument, electrical and avionics mechanics, technicians and inspectors	30	30	0.5
C15 Technical occupations in architecture, drafting, surveying and mapping	760	810	1.1
C151 Architectural technologists and technicians	130	140	1.3
C152 Industrial designers	150	160	1.2
C153 Drafting technologists and technicians	310	320	1.1
C154 Land survey technologists and technicians	80	80	1.0
C155 Mapping and related technologists and technicians	230	230	0.3
C16 Other technical inspectors and regulatory officers	380	390	0.6
C161 Non-destructive testers and inspectors	40	40	1.4
C162 Engineering inspectors and regulatory officers	50	50	0.5
C163 Inspectors in public and environmental health and occupational health and safety	190	200	1.1
C164 Construction inspectors	140	130	-0.3
C17 Transportation officers and controllers	1,090	1,150	1.1
C171 Air pilots, flight engineers and flying instructors	440	470	1.4
C172 Air traffic control and related occupations	70	70	1.1
C173 Deck officers, water transport	390	410	1.1
C174 Engineer officers, water transport	250	260	0.8
C175 Railway traffic controllers and marine traffic regulators	10	10	0.0
C18 Technical occupations in computer and information systems	1,300	1,410	1.7
C181 Computer network technicians	560	610	1.6
C182 User support technicians	660	710	1.7
C183 Systems testing technicians	140	150	1.7
D Health occupations	13,830	15,340	2.2
D0 Professional occupations in health	2,830	3,140	2.1
D01 Physicians, dentists and veterinarians	1,600	1,780	2.3

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
D011 Specialist physicians	430	480	2.3
D012 General practitioners and family physicians	790	880	2.3
D013 Dentists	270	300	2.3
D014 Veterinarians	120	130	2.2
D02 Optometrists, chiropractors and other health diagnosing and treating professionals	230	250	2.2
D021 Optometrists	40	50	2.2
D022 Chiropractors	160	180	2.3
D023 Other professional occupations in health diagnosing and treating	20	30	1.6
D03 Pharmacists, dietitians and nutritionists	410	430	1.3
D031 Pharmacists	320	340	1.1
D032 Dietitians and nutritionists	80	90	2.0
D04 Therapy and assessment professionals	690	760	2.1
D041 Audiologists and speech-language pathologists	110	120	1.8
D042 Physiotherapists	300	340	2.3
D043 Occupational therapists	170	190	2.2
D044 Other professional occupations in therapy and assessment	70	80	2.0
D1 Nurse supervisors and registered nurses	4,230	4,710	2.3
D11 Nurse supervisors and registered nurses	4,250	4,730	2.3
D111 Head nurses and supervisors	130	140	2.2
D112 Registered nurses	4,130	4,600	2.3
D2 Technical and related occupations in health	3,150	3,480	2.1
D21 Medical technologists and technicians (except dental health)	1,230	1,360	2.2
D211 Medical laboratory technologists and pathologists' assistants	240	270	2.2
D212 Medical laboratory technicians	380	420	2.1
D213 Veterinary and animal health technologists and technicians	110	120	2.2
D214 Respiratory therapists, clinical perfusionists and cardio-pulmonary technologists	70	80	2.3
D215 Medical radiation technologists	210	240	2.3
D216 Medical sonographers	80	90	2.3
D217 Cardiology technologists	40	50	2.3
D218 Electroencephalographic and other diagnostic technologists, n.e.c.	20	20	2.3
D219 Other medical technologists and technicians (except dental health)	130	140	1.7
D22 Technical occupations in dental health care	400	440	2.1
D221 Denturists	20	20	2.3
D222 Dental hygienists and dental therapists	250	280	2.3
D223 Dental technologists, technicians and laboratory bench workers	100	110	1.9
D23 Other technical occupations in health care (except dental)	1,640	1,800	2.0
D231 Opticians	100	100	1.2
D232 Midwives and practitioners of natural healing	300	340	2.2
D233 Licensed practical nurses	550	610	2.3
D234 Ambulance attendants and other paramedical occupations	320	350	2.1
D235 Other technical occupations in therapy and assessment	360	390	1.6
D3 Assisting occupations in support of health services	3,590	3,980	2.2
D31 Assisting occupations in support of health services	3,600	3,990	2.2
D311 Dental assistants	440	490	2.3
D312 Nurse aides, orderlies and patient service associates	2,450	2,730	2.3
D313 Other assisting occupations in support of health services	740	800	1.7
E Occupations in social science, education, government service and religion	18,730	19,530	0.9

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	2008	2013	2008 to 2013
E0 Judges, lawyers, psychologists, social workers, ministers of religion, and policy and program officers	5,930	6,270	1.1
E01 Judges, lawyers and Quebec notaries	1,190	1,250	1.1
E011 Judges	60	60	0.0
E012 Lawyers and Quebec notaries	1,100	1,170	1.2
E02 Psychologists, social workers, counsellors, clergy and probation officers	1,890	2,030	1.5
E021 Psychologists	370	410	2.0
E022 Social workers	610	660	1.5
E023 Family, marriage and other related counsellors	470	520	2.0
E024 Ministers of religion	370	380	0.7
E025 Probation and parole officers and related occupations	90	90	0.2
E03 Policy and program officers, researchers and consultants	2,910	3,040	0.9
E031 Natural and applied science policy researchers, consultants and program officers	350	360	0.6
E032 Economists and economic policy researchers and analysts	290	300	0.6
E033 Business development officers and marketing researchers and consultants	500	540	1.5
E034 Social policy researchers, consultants and program officers	490	510	0.7
E035 Education policy researchers, consultants and program officers	440	450	0.5
E036 Recreation, sports and fitness program supervisors and consultants	260	280	1.1
E037 Program officers unique to government	160	160	0.0
E038 Other professional occupations in social science, n.e.c.	240	250	1.3
E039 Health policy researchers, consultants and program officers	310	330	1.4
E1 Teachers and professors	8,150	8,200	0.1
E11 University professors and assistants	2,810	2,820	0.1
E111 University professors	1,550	1,550	0.1
E112 Post-secondary teaching and research assistants	1,270	1,270	0.1
E12 College and other vocational instructors	1,340	1,360	0.3
E121 College and other vocational instructors	1,310	1,330	0.3
E13 Secondary and elementary school teachers and educational counsellors	4,050	4,070	0.1
E131 Secondary school teachers	1,350	1,350	0.1
E132 Elementary school and kindergarten teachers	2,420	2,440	0.1
E133 Educational counsellors	280	290	0.2
E2 Paralegals, social services workers and occupations in education and religion, n.e.c.	4,640	5,050	1.8
E21 Paralegals, social services workers and occupations in education and religion, n.e.c.	4,660	5,070	1.8
E211 Paralegal and related occupations	570	600	1.2
E212 Community and social service workers	1,570	1,720	1.9
E213 Employment counsellors	150	160	1.3
E214 Instructors and teachers of persons with disabilities	80	80	1.2
E215 Other instructors	360	360	0.2
E216 Other religious occupations	170	170	0.7
E217 Early childhood educators and assistants	1,860	2,060	2.2
F Occupations in art, culture, recreation and sport	8,220	8,620	1.0
F0 Professional occupations in art and culture	3,990	4,160	0.9
F01 Librarians, archivists, conservators and curators	340	360	0.8
F011 Librarians	180	190	0.8
F012 Conservators and curators	90	100	0.8

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Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	2008	2013	2008 to 2013
F013 Archivists	50	50	1.0
F02 Writing, translating and public relations professionals	1,750	1,830	1.0
F021 Authors and writers	730	770	1.1
F022 Editors	310	330	1.0
F023 Journalists	120	130	1.1
F024 Professional occupations in public relations and communications	530	550	0.8
F025 Translators, terminologists and interpreters	120	120	1.4
F03 Creative and performing artists	1,960	2,030	0.7
F031 Producers, directors, choreographers and related occupations	260	270	0.9
F032 Conductors, composers and arrangers	20	20	0.6
F033 Musicians and singers	830	850	0.5
F034 Dancers	140	140	0.1
F035 Actors and comedians	110	110	0.9
F036 Painters, sculptors and other visual artists	650	680	1.0
F1 Technical occupations in art, culture, recreation and sport	4,260	4,490	1.1
F11 Technical occupations in libraries, archives, museums and art galleries	340	350	0.9
F111 Library and archive technicians and assistants	260	270	0.7
F112 Technical occupations related to museums and art galleries	110	110	1.1
F12 Photographers, graphic arts technicians and technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts	670	720	1.4
F121 Photographers	190	210	1.9
F122 Film and video camera operators	50	50	1.1
F123 Graphic arts technicians	70	70	1.3
F124 Broadcast technicians	50	50	1.1
F125 Audio and video recording technicians	170	180	1.1
F126 Other technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts	90	100	1.3
F127 Support occupations in motion pictures, broadcasting and the performing arts	100	110	1.1
F13 Announcers and other performers	100	110	1.0
F131 Announcers and other broadcasters	60	60	1.1
F132 Other performers	50	50	0.9
F14 Creative designers and craftspersons	1,530	1,630	1.2
F141 Graphic designers and illustrators	620	660	1.3
F142 Interior designers	410	430	1.0
F143 Theatre, fashion, exhibit and other creative designers	110	120	1.3
F144 Artisans and craftspersons	460	490	1.3
F145 Patternmakers - Textile, leather and fur products	30	40	1.3
F15 Athletes, coaches, referees and related occupations	1,700	1,780	0.9
F151 Athletes	80	90	1.7
F152 Coaches	190	200	0.5
F153 Sports officials and referees	140	140	1.1
F154 Program leaders and instructors in recreation, sport and fitness	1,350	1,410	0.9
G Sales and service occupations	52,640	55,360	1.0
G0 Sales and service supervisors	1,780	1,880	1.1
G01 Sales and service supervisors	1,800	1,900	1.1
G011 Retail trade supervisors	930	970	0.9
G012 Food service supervisors	490	520	1.4

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Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
G013 Executive housekeepers	110	120	1.4
G014 Dry cleaning and laundry supervisors	20	20	1.3
G015 Cleaning supervisors	120	130	1.1
G016 Other service supervisors	210	220	0.9
G1 Wholesale, technical, insurance, real estate sales specialists, and retail, wholesale and grain buyers	3,100	3,280	1.2
G11 Sales representatives, wholesale trade	1,450	1,540	1.2
G111 Sales representatives, wholesale trade (non-technical)	1,430	1,520	1.2
G12 Technical sales specialists, wholesale trade	290	320	1.8
G121 Technical sales specialists, wholesale trade	320	350	1.6
G13 Insurance and real estate sales occupations and buyers	1,360	1,430	1.1
G131 Insurance agents and brokers	520	540	1.1
G132 Real estate agents and salespersons	630	660	1.1
G133 Retail and wholesale buyers	230	240	1.2
G134 Grain elevator operators	10	10	1.4
G2 Retail salespersons and sales clerks	10,080	10,550	0.9
G21 Retail salespersons and sales clerks	10,070	10,540	0.9
G211 Retail salespersons and sales clerks	10,090	10,550	0.9
G3 Cashiers	3,430	3,590	1.0
G31 Cashiers	3,420	3,590	1.0
G311 Cashiers	3,360	3,530	1.0
G4 Chefs and cooks	3,290	3,520	1.4
G41 Chefs and cooks	3,310	3,540	1.4
G411 Chefs	770	820	1.4
G412 Cooks	2,560	2,740	1.4
G5 Occupations in food and beverage service	3,650	3,910	1.4
G51 Occupations in food and beverage service	3,630	3,890	1.4
G511 Maitres d'hôtel and hosts/hostesses	340	360	1.4
G512 Bartenders	560	600	1.3
G513 Food and beverage servers	2,820	3,020	1.4
G6 Occupations in protective services	4,730	4,770	0.2
G61 Police officers and firefighters	910	910	0.0
G611 Police officers (except commissioned)	590	590	-0.1
G612 Firefighters	320	320	0.1
G62 Other occupations in protective service	2,960	2,960	0.0
G621 Sheriffs and bailiffs	40	40	0.0
G622 Correctional service officers	330	330	0.1
G623 By-law enforcement and other regulatory officers, n.e.c.	70	70	0.4
G624 Other ranks, armed forces	2,380	2,380	0.0
G625 Other protective service occupations	160	170	0.7
G63 Security guards and related occupations	930	970	0.9
G631 Security guards and related occupations	880	920	0.9
G7 Occupations in travel and accommodation, including attendants in recreation and sport	1,930	2,040	1.2
G71 Occupations in travel and accommodation	1,170	1,240	1.2
G711 Travel counsellors	370	390	0.8
G712 Pursers and flight attendants	60	60	1.4
G713 Airline sales and service agents	120	120	1.4

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Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
G714 Ticket agents, cargo service representatives and related clerks (except airline)	160	170	1.3
G715 Hotel front desk clerks	460	490	1.4
G72 Tour and recreational guides and casino occupations	510	540	0.9
G721 Tour and travel guides	270	280	1.0
G722 Outdoor sport and recreational guides	90	90	0.9
G723 Casino occupations	160	170	0.7
G73 Other occupations in travel, accommodation, amusement and recreation	300	320	1.1
G731 Operators and attendants in amusement, recreation and sport	200	210	1.0
G732 Other attendants in accommodation and travel	110	120	1.4
G8 Child care and home support workers	3,980	4,240	1.3
G81 Child care and home support workers	3,980	4,240	1.3
G811 Visiting homemakers, housekeepers and related occupations	1,920	2,120	2.1
G812 Elementary and secondary school teacher assistants	1,140	1,140	0.1
G814 Babysitters, nannies and parents' helpers	960	1,010	1.1
G9 Sales and service occupations, n.e.c.	16,820	17,730	1.1
G91 Technical occupations in personal service	980	1,000	0.6
G911 Hairstylists and barbers	920	950	0.6
G912 Funeral directors and embalmers	50	50	0.9
G92 Other occupations in personal service	750	780	0.8
G921 Image, social and other personal consultants	90	90	1.3
G922 Estheticians, electrologists and related occupations	430	440	0.7
G923 Pet groomers and animal care workers	240	250	0.8
G924 Other personal service occupations	40	40	1.5
G93 Cleaners	6,090	6,380	1.0
G931 Light duty cleaners	2,740	2,900	1.2
G932 Specialized cleaners	420	440	0.9
G933 Janitors, caretakers and building superintendents	2,940	3,050	0.7
G94 Butchers and bakers, retail and wholesale	930	980	1.0
G941 Butchers, meat cutters and fishmongers, retail and wholesale	310	320	0.8
G942 Bakers	600	630	1.1
G96 Food counter attendants, kitchen helpers and related occupations	5,000	5,360	1.4
G961 Food counter attendants, kitchen helpers and related occupations	5,030	5,380	1.4
G97 Other sales and related occupations	2,570	2,700	1.0
G971 Service station attendants	370	390	0.9
G972 Grocery clerks and store shelf stockers	1,830	1,920	0.9
G973 Other elemental sales occupations	410	430	0.9
G98 Other elemental service occupations	630	670	1.1
G981 Dry cleaning and laundry occupations	250	270	1.5
G982 Ironing, pressing and finishing occupations	50	50	0.8
G983 Other elemental service occupations	300	310	1.0
H Trades, transport and equipment operators and related occupations	26,430	25,820	-0.5
H0 Contractors and supervisors in trades and transportation	1,400	1,330	-1.0
H01 Contractors and supervisors, trades and related workers	1,400	1,320	-1.1
H011 Supervisors, machinists and related occupations	40	50	1.6
H012 Contractors and supervisors, electrical trades and telecommunications occupations	210	200	-0.9

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Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
H013 Contractors and supervisors, pipefitting trades	80	80	-0.4
H014 Contractors and supervisors, metal forming, shaping and erecting trades	60	60	0.3
H015 Contractors and supervisors, carpentry trades	300	280	-1.1
H016 Contractors and supervisors, mechanic trades	110	110	-0.3
H017 Contractors and supervisors, heavy construction equipment crews	210	200	-0.7
H018 Supervisors, printing and related occupations	50	50	0.6
H019 Contractors and supervisors, other construction trades, installers, repairers and servicers	520	480	-1.3
H02 Supervisors, railway and motor transportation occupations	50	50	1.3
H021 Supervisors, railway transport operations	10	10	1.4
H022 Supervisors, motor transport and other ground transit operators	60	60	1.0
H1 Construction trades	8,890	8,200	-1.6
H11 Plumbers, pipefitters and gas fitters	980	920	-1.3
H111 Plumbers	720	660	-1.5
H112 Steamfitters, pipefitters and sprinkler system installers	240	230	-0.2
H113 Gas fitters	80	80	-1.1
H12 Carpenters and cabinetmakers	3,900	3,610	-1.5
H121 Carpenters	3,530	3,230	-1.7
H122 Cabinetmakers	380	390	0.7
H13 Masonry and plastering trades	1,200	1,100	-1.6
H131 Bricklayers	260	240	-1.4
H132 Concrete finishers	180	170	-1.5
H133 Tilesetters	190	180	-1.5
H134 Plasterers, drywall installers and finishers and lathers	590	540	-1.8
H14 Other construction trades	2,850	2,610	-1.7
H141 Roofers and shinglers	520	470	-1.9
H142 Glaziers	180	180	-0.4
H143 Insulators	140	130	-1.3
H144 Painters and decorators	1,620	1,480	-1.7
H145 Floor covering installers	440	410	-1.6
H2 Stationary engineers, power station operators and electrical trades and telecommunications occupations	1,870	1,810	-0.7
H21 Electrical trades and telecommunications occupations	1,810	1,740	-0.7
H211 Electricians (except industrial and power system)	1,080	1,000	-1.5
H212 Industrial electricians	310	310	0.3
H213 Power system electricians	30	30	-1.0
H214 Electrical power line and cable workers	100	100	-0.4
H215 Telecommunications line and cable workers	140	140	0.9
H216 Telecommunications installation and repair workers	210	220	1.0
H217 Cable television service and maintenance technicians	70	70	0.8
H22 Stationary engineers and power station and system operators	90	100	1.0
H221 Stationary engineers and auxiliary equipment operators	90	90	1.1
H222 Power systems and power station operators	-	-	-
H3 Machinists, metal forming, shaping and erecting occupations	1,370	1,430	0.8
H31 Machinists and related occupations	370	400	1.4
H311 Machinists and machining and tooling inspectors	310	330	1.5
H312 Tool and die makers	90	90	1.1
H32 Metal forming, shaping and erecting trades	1,010	1,050	0.7

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Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
H321 Sheet metal workers	240	250	0.5
H322 Boilermakers	30	30	1.9
H323 Structural metal and platework fabricators and fitters	230	240	1.2
H324 Ironworkers	90	90	-0.3
H325 Blacksmiths and die setters	10	10	2.5
H326 Welders and related machine operators	510	540	1.0
H4 Mechanics	2,310	2,370	0.5
H41 Machinery and transportation equipment mechanics (except motor vehicle)	730	740	0.3
H411 Construction millwrights and industrial mechanics (except textile)	160	160	0.5
H412 Heavy-duty equipment mechanics	270	270	0.5
H413 Refrigeration and air conditioning mechanics	170	160	-0.8
H414 Railway carmen/women	10	10	0.0
H415 Aircraft mechanics and aircraft inspectors	190	200	0.9
H416 Machine fitters	50	50	1.4
H417 Textile machinery mechanics and repairers	10	10	0.0
H418 Elevator constructors and mechanics	30	30	-1.9
H42 Automotive service technicians	1,260	1,310	0.8
H421 Automotive service technicians, truck and bus mechanics and mechanical repairers	1,030	1,070	0.8
H422 Motor vehicle body repairers	230	240	0.8
H43 Other mechanics	360	370	0.4
H431 Oil and solid fuel heating mechanics	60	60	-0.4
H432 Electric appliance servicers and repairers	100	100	0.2
H433 Electrical mechanics	30	30	1.2
H434 Motorcycle and other related mechanics	30	30	0.9
H435 Other small engine and equipment mechanics	190	200	0.7
H5 Other trades, n.e.c.	1,180	1,190	0.1
H51 Upholsterers, tailors, shoe repairers, jewellers and related occupations	320	330	0.9
H511 Upholsterers	70	80	0.8
H512 Tailors, dressmakers, furriers and milliners	170	180	1.0
H513 Shoe repairers and shoemakers	20	20	0.7
H514 Jewellers, watch repairers and related occupations	90	100	1.1
H52 Printing press operators, commercial divers and other trades and related occupations, n.e.c.	210	220	0.3
H521 Printing press operators	90	90	-0.4
H522 Commercial divers	60	60	0.4
H523 Other trades and related occupations	100	100	0.9
H53 Other installers, repairers and servicers	660	650	-0.2
H531 Residential and commercial installers and servicers	420	400	-0.8
H532 Waterworks and gas maintenance workers	60	60	-0.2
H533 Automotive mechanical installers and servicers	90	90	0.6
H534 Pest controllers and fumigators	30	30	1.2
H535 Other repairers and servicers	160	170	0.9
H6 Heavy equipment and crane operators, including drillers	940	900	-1.0
H61 Heavy equipment operators	860	820	-0.9
H611 Heavy equipment operators (except crane)	710	660	-1.2
H612 Public works maintenance equipment operators	120	120	0.0
H62 Crane operators, drillers and blasters	170	160	-0.7

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Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
H621 Crane operators	70	70	-0.3
H622 Drillers and blasters - Surface mining, quarrying and construction	40	40	-1.3
H623 Water well drillers	10	10	0.2
H7 Transportation equipment operators and related workers, excluding labourers	4,510	4,750	1.1
H71 Motor vehicle and transit drivers	3,920	4,130	1.1
H711 Truck drivers	1,430	1,490	0.8
H712 Bus drivers and subway and other transit operators	730	780	1.3
H713 Taxi and limousine drivers and chauffeurs	680	730	1.3
H714 Delivery and courier service drivers	1,090	1,160	1.3
H72 Train crew operating occupations	20	20	1.4
H721 Railway and yard locomotive engineers	10	10	1.4
H722 Railway conductors and brakemen/women	30	30	1.0
H73 Other transport equipment operators and related workers	620	650	0.9
H731 Railway yard workers	10	10	1.4
H732 Railway track maintenance workers	10	10	1.4
H733 Deck crew, water transport	350	360	0.8
H734 Engine room crew, water transport	70	80	0.8
H735 Lock and cable ferry operators and related occupations	90	100	1.1
H736 Boat operators	60	60	0.9
H737 Air transport ramp attendants	50	50	1.4
H8 Trades helpers, construction and transportation labourers and related occupations	4,070	3,970	-0.5
H81 Longshore workers and material handlers	1,230	1,300	1.1
H811 Longshore workers	100	100	1.1
H812 Material handlers	1,170	1,240	1.1
H82 Trades helpers and labourers	2,520	2,350	-1.4
H821 Construction trades helpers and labourers	2,450	2,270	-1.4
H822 Other trades helpers and labourers	70	70	0.6
H83 Public works and other labourers, n.e.c.	360	370	0.5
H831 Public works and maintenance labourers	280	290	0.4
H832 Railway and motor transport labourers	70	80	1.3
I Occupations unique to primary industry	4,280	4,440	0.7
I0 Occupations unique to agriculture, excluding labourers	1,590	1,650	0.7
I01 Contractors, operators and supervisors in agriculture, horticulture and aquaculture	990	1,020	0.7
I011 Farmers and farm managers	580	600	0.8
I012 Agricultural and related service contractors and managers	50	50	0.6
I013 Farm supervisors and specialized livestock workers	80	80	1.2
I014 Nursery and greenhouse operators and managers	50	50	1.1
I015 Landscaping and grounds maintenance contractors and managers	220	220	0.5
I016 Supervisors, landscape and horticulture	160	170	0.5
I017 Aquaculture operators and managers	20	20	0.7
I02 Agriculture and horticulture workers	620	640	0.8
I021 General farm workers	350	370	0.8
I022 Nursery and greenhouse workers	270	280	0.9
I1 Occupations unique to forestry operations, mining, oil and gas extraction and fishing, excluding labourers	350	360	0.9
I11 Supervisors, logging and forestry	30	40	1.9
I111 Supervisors, logging and forestry	20	30	2.6

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	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
I12 Supervisors, mining, oil and gas	40	40	0.2
I121 Supervisors, mining and quarrying	-	-	-
I122 Supervisors, oil and gas drilling and service	20	20	1.2
I13 Underground miners, oil and gas drillers and related workers	60	60	-0.5
I131 Underground production and development miners	30	30	-0.5
I132 Oil and gas well drillers, servicers, testers and related workers	50	50	0.1
I14 Mine service workers and operators in oil and gas drilling	10	10	1.1
I141 Underground mine service and support workers	30	30	1.1
I142 Oil and gas well drilling workers and services operators	10	10	0.8
I15 Logging machinery operators	30	30	3.1
I151 Logging machinery operators	40	40	2.8
I16 Logging and forestry workers	130	140	1.6
I161 Chain saw and skidder operators	90	100	1.7
I162 Silviculture and forestry workers	100	110	1.2
I17 Fishing vessel masters and skippers and fishermen/women	120	120	0.1
I171 Fishing masters and officers	10	10	0.1
I172 Fishing vessel skippers and fishermen/women	110	110	0.1
I18 Other fishing and trapping occupations	30	30	0.4
I181 Fishing vessel deckhands	20	20	0.2
I182 Trappers and hunters	30	30	1.4
I2 Primary production labourers	2,370	2,460	0.8
I21 Primary production labourers	2,360	2,440	0.7
I211 Harvesting labourers	60	60	0.7
I212 Landscaping and grounds maintenance labourers	2,110	2,180	0.7
I213 Aquaculture and marine harvest labourers	20	20	1.0
I214 Mine labourers	10	10	-0.1
I215 Oil and gas drilling, servicing and related labourers	60	60	-1.0
I216 Logging and forestry labourers	130	150	2.5
J Occupations unique to processing, manufacturing and utilities	3,280	3,470	1.1
J0 Supervisors in manufacturing	240	250	1.3
J01 Supervisors, processing occupations	140	150	0.6
J011 Supervisors, mineral and metal processing	40	40	0.4
J012 Supervisors, petroleum, gas and chemical processing and utilities	50	50	0.7
J013 Supervisors, food, beverage and tobacco processing	60	60	1.3
J014 Supervisors, plastic and rubber products manufacturing	10	10	2.3
J015 Supervisors, forest products processing	30	30	2.3
J016 Supervisors, textile processing	-	-	-
J02 Supervisors, assembly and fabrication	110	120	1.3
J021 Supervisors, motor vehicle assembling	10	10	1.1
J022 Supervisors, electronics manufacturing	-	-	-
J023 Supervisors, electrical products manufacturing	10	10	1.0
J024 Supervisors, furniture and fixtures manufacturing	10	20	1.6
J025 Supervisors, fabric, fur and leather products manufacturing	10	10	1.5
J026 Supervisors, other mechanical and metal products manufacturing	20	20	1.7
J027 Supervisors, other products manufacturing and assembly	80	90	1.7
J1 Machine operators in manufacturing	1,370	1,430	0.8
J11 Central control and process operators in manufacturing and processing	30	30	1.4

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Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	2008	2013	2008 to 2013
J111 Central control and process operators, mineral and metal processing	-	-	-
J112 Petroleum, gas and chemical process operators	10	10	1.5
J113 Pulping control operators	10	10	1.4
J114 Papermaking and coating control operators	-	-	-
J12 Machine operators and related workers in metal and mineral products processing	110	120	1.5
J121 Machine operators, mineral and metal processing	20	20	-0.7
J122 Foundry workers	30	30	-0.5
J123 Glass forming and finishing machine operators and glass cutters	30	30	1.5
J124 Concrete, clay and stone forming operators	50	60	1.7
J125 Inspectors and testers, mineral and metal processing	20	20	1.4
J13 Machine operators and related workers in chemical, plastic and rubber processing	170	170	0.5
J131 Chemical plant machine operators	30	30	2.7
J132 Plastics processing machine operators	40	40	2.2
J133 Rubber processing machine operators and related workers	20	20	1.7
J134 Water and waste plant operators	130	140	0.5
J14 Machine operators and related workers in pulp and paper production and wood processing	70	80	1.9
J141 Sawmill machine operators	40	50	2.5
J142 Pulp mill machine operators	10	10	3.5
J143 Papermaking and finishing machine operators	50	50	-1.4
J144 Other wood processing machine operators	40	40	1.3
J145 Paper converting machine operators	50	50	1.3
J146 Lumber graders and other wood processing inspectors and graders	10	20	1.8
J15 Machine operators and related workers in textile processing	30	30	1.5
J151 Textile fibre and yarn preparation machine operators	-	-	-
J152 Weavers, knitters and other fabric-making occupations	40	40	1.2
J153 Textile dyeing and finishing machine operators	30	40	1.3
J154 Textile inspectors, graders and samplers	20	20	1.1
J16 Machine operators and related workers in fabric, fur and leather products manufacturing	150	150	0.9
J161 Sewing machine operators	140	140	1.1
J162 Fabric, fur and leather cutters	20	20	1.6
J163 Hide and pelt processing workers	-	-	-
J164 Inspectors and testers, fabric, fur and leather products manufacturing	10	10	1.5
J17 Machine operators and related workers in food, beverage and tobacco processing	350	370	1.2
J171 Process control and machine operators, food and beverage processing	220	230	1.2
J172 Industrial butchers and meat cutters, poultry preparers and related workers	20	20	1.2
J173 Fish plant workers	100	110	1.2
J174 Tobacco processing machine operators	10	10	4.2
J175 Testers and graders, food and beverage processing	60	60	1.1
J18 Printing machine operators and related occupations	270	260	-1.2
J181 Printing machine operators	50	50	0.2
J182 Camera, platemaking and other pre-press occupations	100	90	-1.3
J183 Binding and finishing machine operators	90	80	-2.6
J184 Photographic and film processors	110	120	0.9
J19 Machining, metalworking, woodworking and related machine operators	280	310	1.8
J191 Machining tool operators	70	80	2.1
J192 Forging machine operators	-	-	-

Camosun College Region

Projected Annual Growth Rates in Occupational Demand

	Estimated Employment		Avg Annual % Chng Over 5 Years
	<u>2008</u>	<u>2013</u>	<u>2008 to 2013</u>
J193 Woodworking machine operators	130	140	1.7
J194 Metalworking machine operators	110	120	1.6
J196 Other metal products machine operators	30	30	2.1
J197 Other products machine operators	30	30	1.2
J2 Assemblers in manufacturing	1,010	1,090	1.6
J21 Mechanical, electrical and electronics assemblers	290	310	1.7
J211 Aircraft assemblers and aircraft assembly inspectors	40	50	0.7
J212 Motor vehicle assemblers, inspectors and testers	60	70	1.3
J213 Electronics assemblers, fabricators, inspectors and testers	140	150	1.5
J214 Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing	70	80	1.9
J215 Assemblers, fabricators and inspectors, industrial electrical motors and transformers	-	-	-
J216 Mechanical assemblers and inspectors	30	30	1.1
J217 Machine operators and inspectors, electrical apparatus manufacturing	10	10	2.0
J22 Other assembly and related occupations	780	840	1.5
J221 Boat assemblers and inspectors	170	180	1.4
J222 Furniture and fixture assemblers and inspectors	170	180	1.4
J223 Other wood products assemblers and inspectors	100	110	2.4
J224 Furniture finishers and refinishers	110	120	0.8
J225 Plastic products assemblers, finishers and inspectors	100	110	2.0
J226 Painters and coaters, industrial	120	130	1.5
J227 Plating, metal spraying and related operators	60	60	0.2
J228 Other assemblers and inspectors	100	110	1.3
J3 Labourers in processing, manufacturing and utilities	720	760	1.2
J31 Labourers in processing, manufacturing and utilities	760	800	1.2
J311 Labourers in mineral and metal processing	40	40	1.5
J312 Labourers in metal fabrication	70	80	2.0
J313 Labourers in chemical products processing and utilities	60	60	1.0
J314 Labourers in wood, pulp and paper processing	80	80	1.5
J315 Labourers in rubber and plastic products manufacturing	30	30	1.9
J316 Labourers in textile processing	30	30	1.0
J317 Labourers in food, beverage and tobacco processing	260	270	1.2
J318 Labourers in fish processing	70	70	1.1
J319 Other labourers in processing, manufacturing and utilities	270	280	0.9