

**Innovation Systems Research Network  
City-Region Profile, 2006**

# Moncton

**Gregory M. Spencer<sup>a</sup> and Tara Vinodrai<sup>b</sup>**

<sup>a</sup>Post Doctoral Research Fellow  
Program on Globalization and Regional Innovation Systems (PROGRIS)  
Munk Centre for International Studies  
University of Toronto

<sup>b</sup>Assistant Professor  
Department of Geography and Environmental Management  
and Centre for Environment and Business  
University of Waterloo

**18/06/2009**

## Summary and Highlights

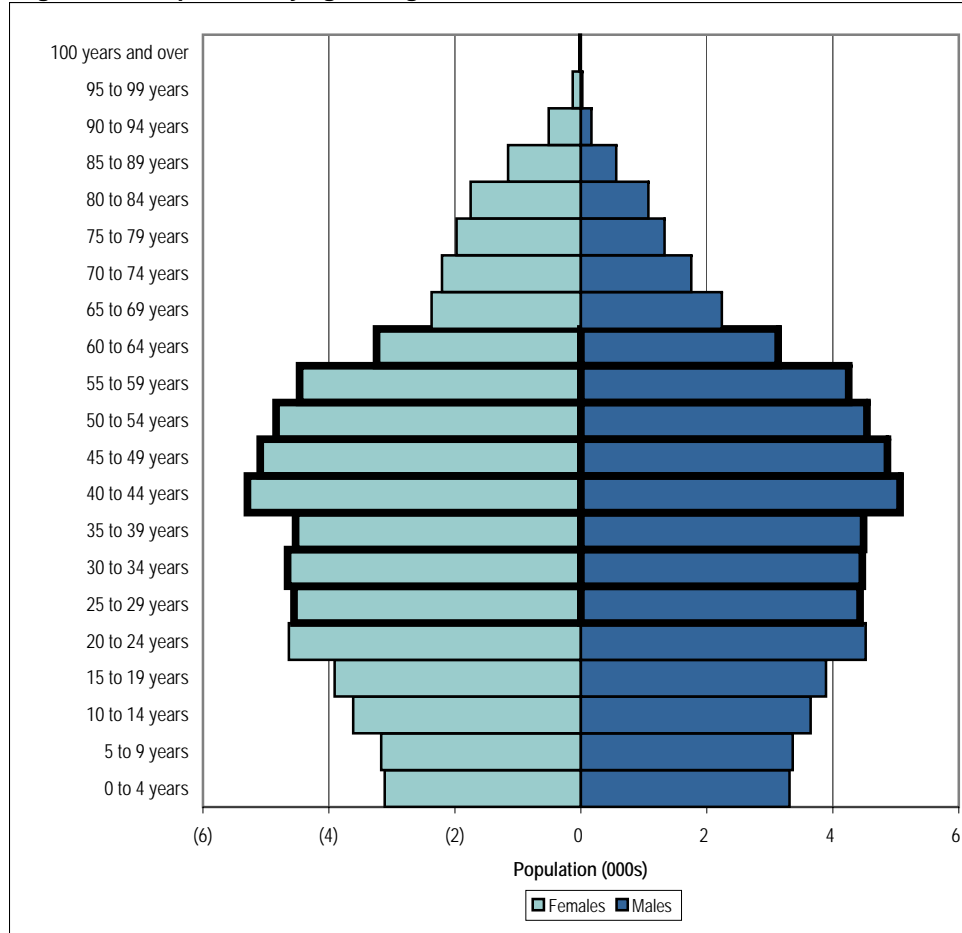
Key Indicators	Moncton	Canada
Population, 2006	126,425	31,612,890
Population Change, 2001-2006	6.5%	5.4%
% Foreign Born	3.4%	19.8%
% BA Degree or higher	16.1%	18.1%
# Employed	66,410	15,958,195
Employment Growth 1996-2006	22.0%	19.8%
Employment Rate	64.1%	62.4%
Unemployment Rate	6.2%	6.6%
% 'Creative' occupations	32.9%	33.2%
% Science & Tech. Occupations	5.8%	6.6%
'Bohemians' per 1,000 Labour Force	10.3	14.2
Number of Industrial Clusters	2	255
% Employment in Clusters	8.8%	22.1%
Average FT Employment Income	\$ 42,374	\$ 51,221
% Change Average Income 2000-2005	3.5%	5.5%

# 1 - Demographics Moncton

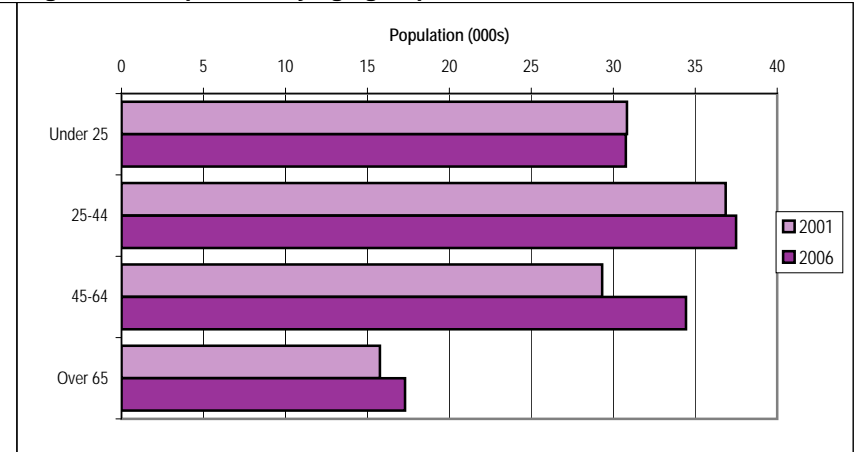
Population	2001	2006	% Change 2001-2006
<b>Moncton</b>	118,685	126,425	6.5%
<b>Canada</b>	30,007,085	31,612,890	5.4%

Age Groups	Under 15	15 to 64	65 and over	% 15 to 64
<b>Moncton</b>	30,765	71,935	17,295	59.9%
<b>Canada</b>	9,800,715	17,476,925	4,335,250	55.3%

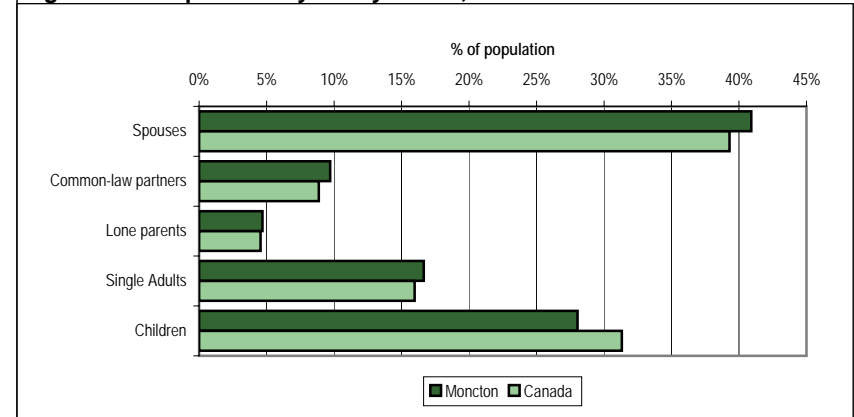
**Figure 1.1 - Population by age and gender, 2006**



**Figure 1.2 - Population by age group, 2001-2006**



**Figure 1.3 - Population by family status, 2006**

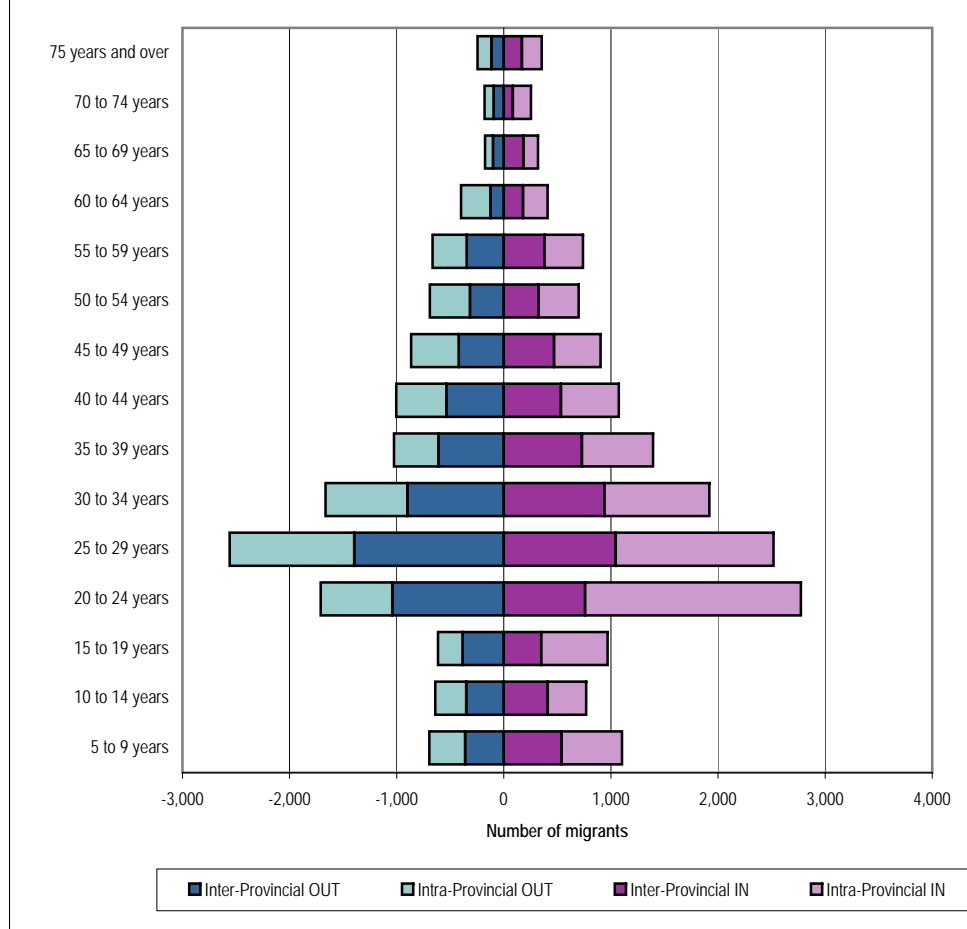


## 2 - Migration & Population Change Moncton

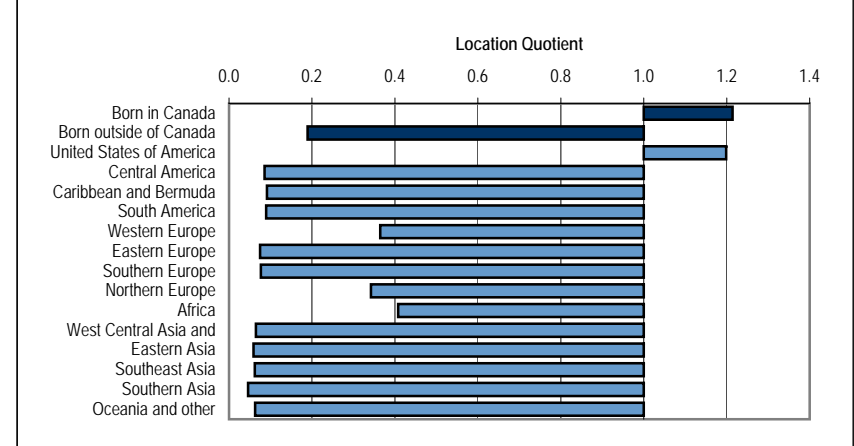
Domestic Migration	Intra-provincial	Inter-provincial	Total
<b>In-flows, 2001-2006</b>	9,110	7,105	16,215
<b>Out-flows, 2001-2006</b>	6,045	7,090	13,135
<b>Net, 2001-2006</b>	3,065	15	3,080

	% Foreign born	Migrated post-1991	Migrated pre-1991
<b>Moncton</b>	3.4%	1.0%	2.4%
<b>Canada</b>	19.8%	8.9%	10.9%

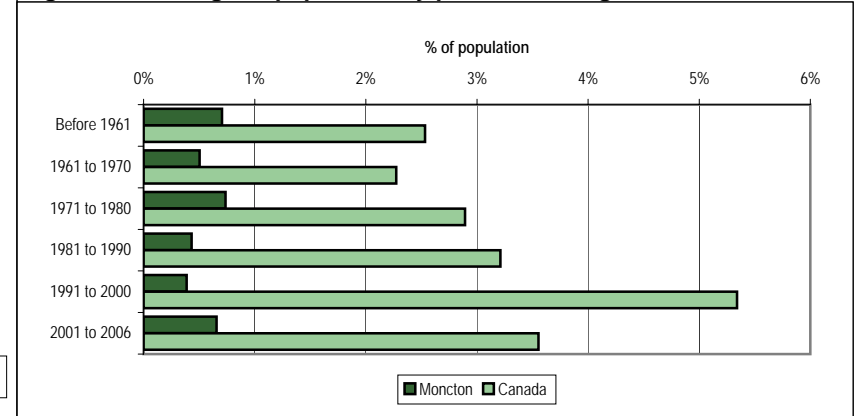
**Figure 2.1 - Domestic migration flows between 2001 and 2006 by age**



**Figure 2.2 - Population by place of birth, 2006**



**Figure 2.3 - Immigrant population by period of immigration, 2006**

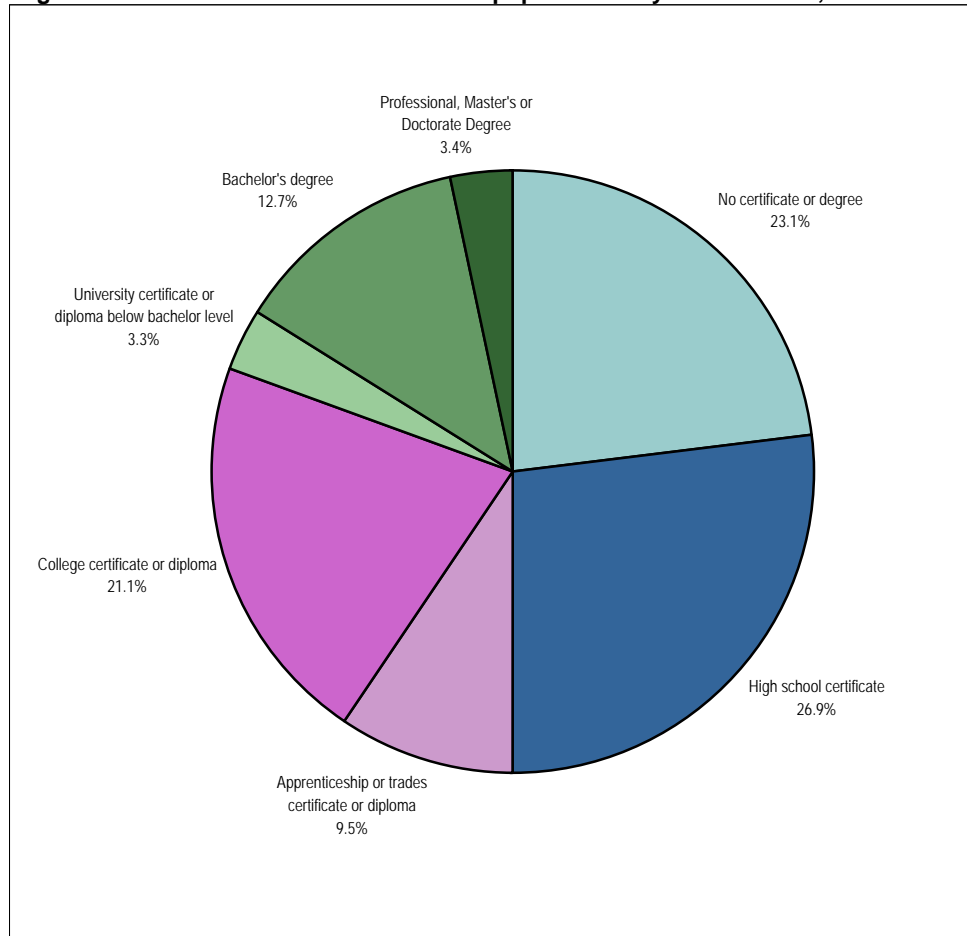


### 3 - Education Moncton

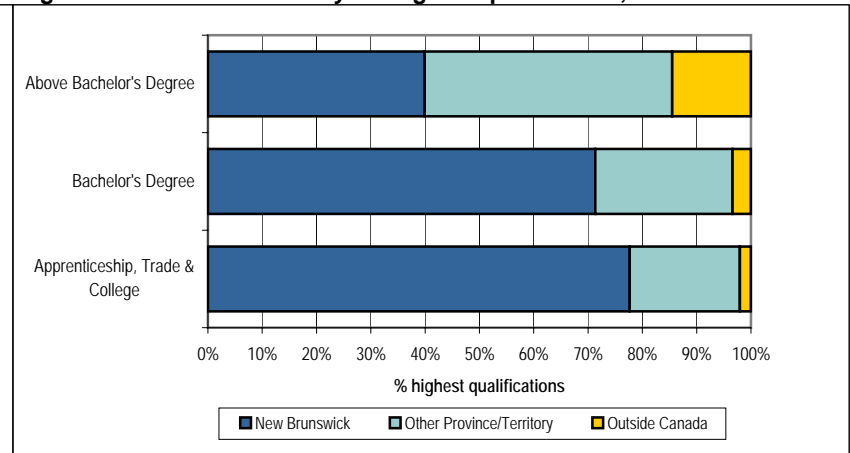
	% College degree or higher <sup>1</sup>	% BA degree or higher <sup>1</sup>	% MA degree or higher <sup>1</sup>	PhDs per 1,000 <sup>1</sup>
<b>Moncton</b>	40.5%	16.1%	3.4%	5.6
<b>Canada</b>	39.8%	18.1%	4.6%	6.9

	% BA degree or higher	
	2001	2006
<b>Moncton</b>	13.7%	16.1%
<b>Canada</b>	15.4%	18.1%

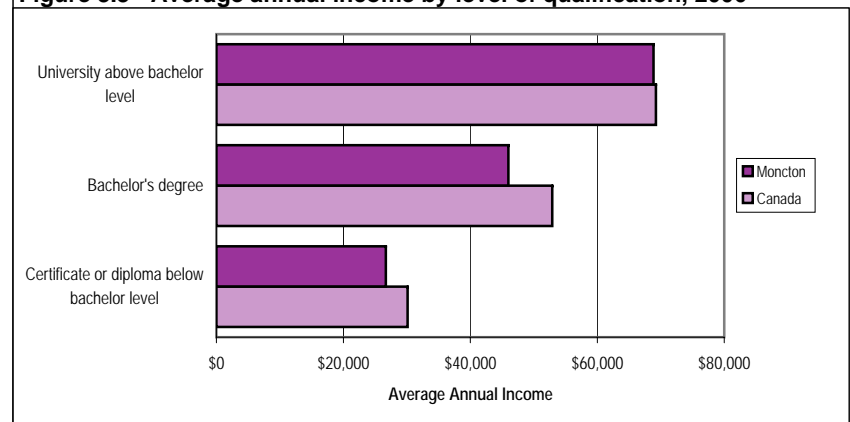
**Figure 3.1 - Educational attainment for the population 15 years and over, 2006**



**Figure 3.2 - Location of study for highest qualification, 2006**



**Figure 3.3 - Average annual income by level of qualification, 2006**



## 4 - Employment

## Moncton

Employment Rate			
	1996	2001	2006
<b>Moncton</b>	59.4%	62.3%	64.1%
<b>Canada</b>	58.9%	61.5%	62.4%

Unemployment Rate			
	1996	2001	2006
<b>Moncton</b>	9.9%	8.1%	6.2%
<b>Canada</b>	10.1%	7.4%	6.6%

Figure 4.1 - Labour force status of the population 15 and over, 1996 & 2006

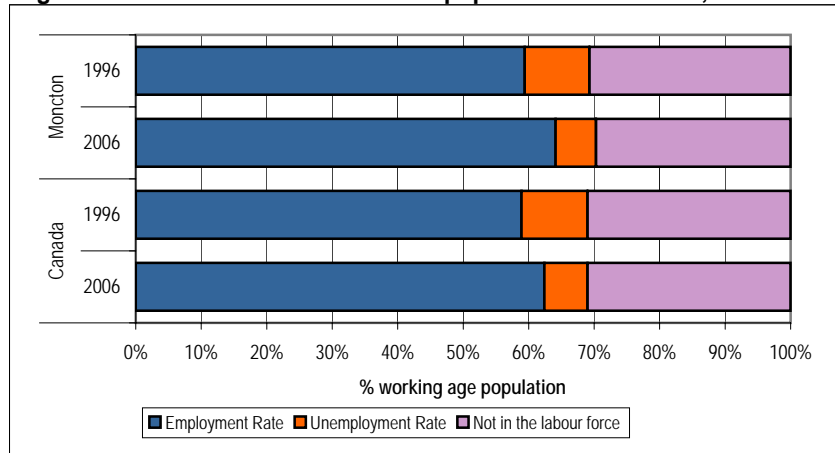


Figure 4.2 - Employment Rate by Educational Attainment, 2006

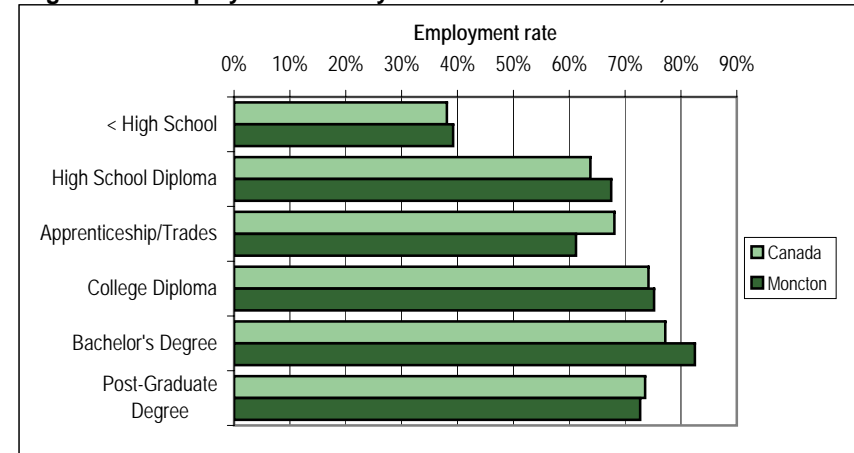


Figure 4.3 - Employment rate<sup>2</sup> by age, 2006

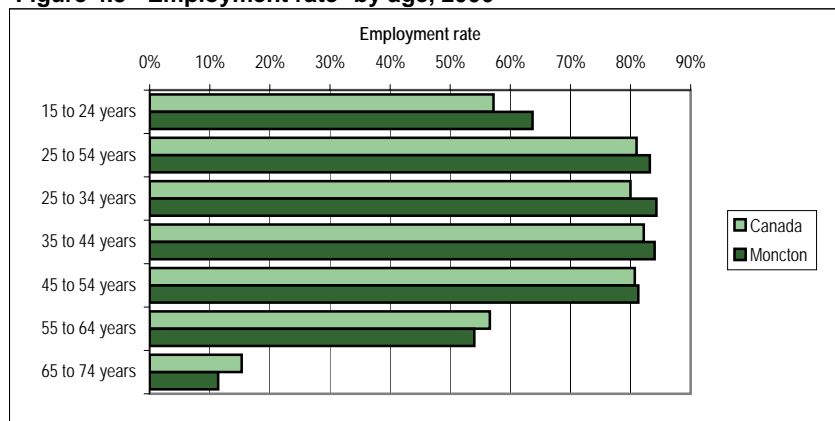
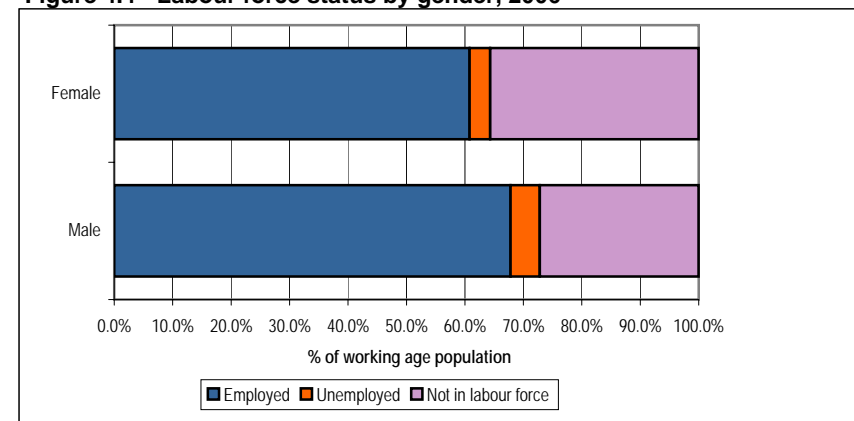


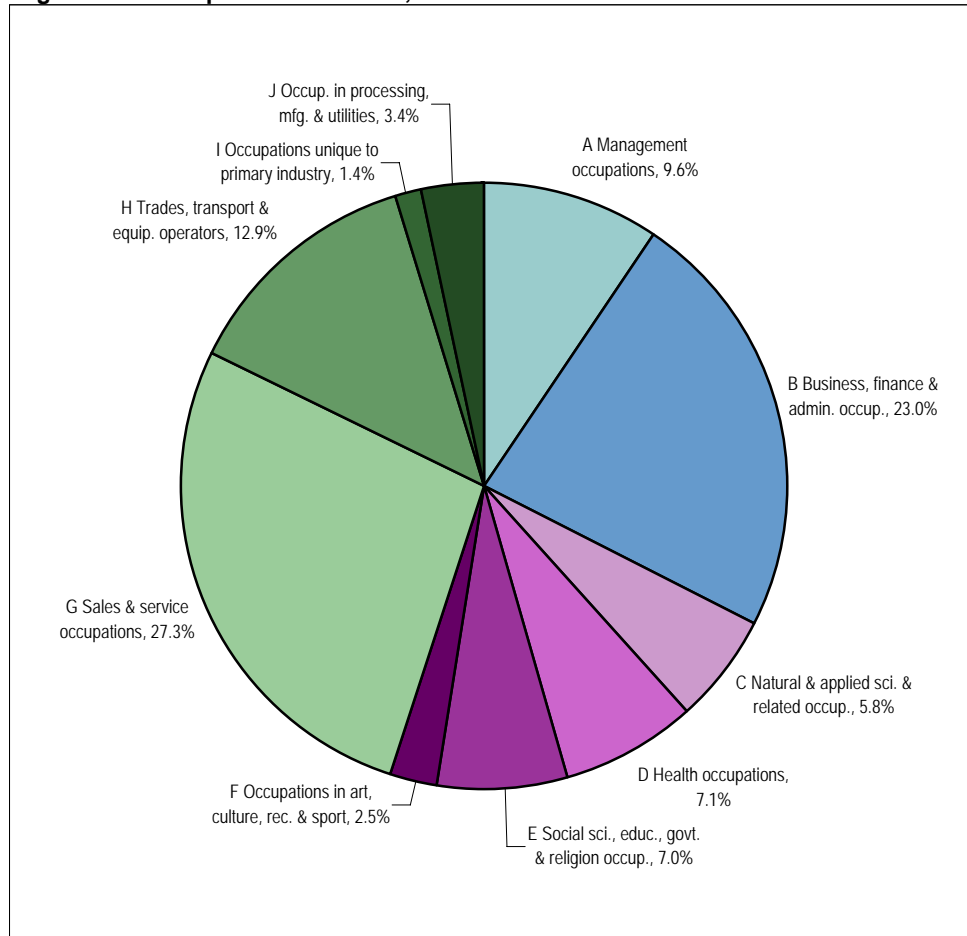
Figure 4.4 - Labour force status by gender, 2006



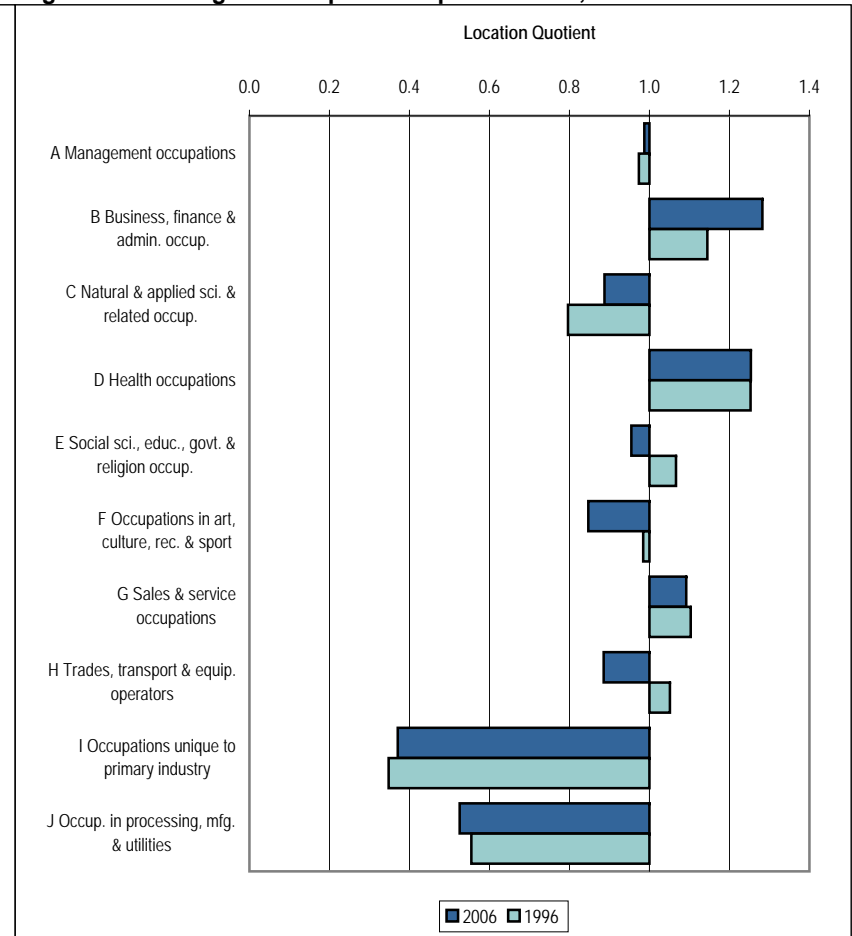
# 5 - Occupational Structure Moncton

	A-B Management, business & finance occupations			C-F Natural/social science, health, education & artistic occupations			G-J Sales/service, trades & manual labour occupations		
	1996	2001	2006	1996	2001	2006	1996	2001	2006
<b>Moncton</b>	30.3%	32.5%	32.6%	20.4%	20.4%	22.5%	49.3%	47.1%	45.0%
<b>Canada</b>	27.8%	28.2%	27.6%	19.8%	21.3%	22.6%	52.4%	50.5%	49.8%

**Figure 5.1 - Occupational structure, 2006**



**Figure 5.2 - Change in occupational specialization, 1996-2006**



## 6 - Creative Occupations

Moncton

	Bohemians	Bohemians per 1000 <sup>5</sup>	S&T Workers	% S&T Workers <sup>6</sup>
<b>Moncton</b>	725	10.3	4,085	5.8%
<b>Canada</b>	240,170	14.2	1,108,050	6.6%

Occupational Groups <sup>7</sup>	Creative	Service	Trades & Manual	Agricultural & Resources
<b>Moncton</b>	32.9%	49.4%	16.9%	0.8%
<b>Canada</b>	33.2%	41.9%	21.9%	2.9%

Figure 6.1 - Specialization in creative occupations

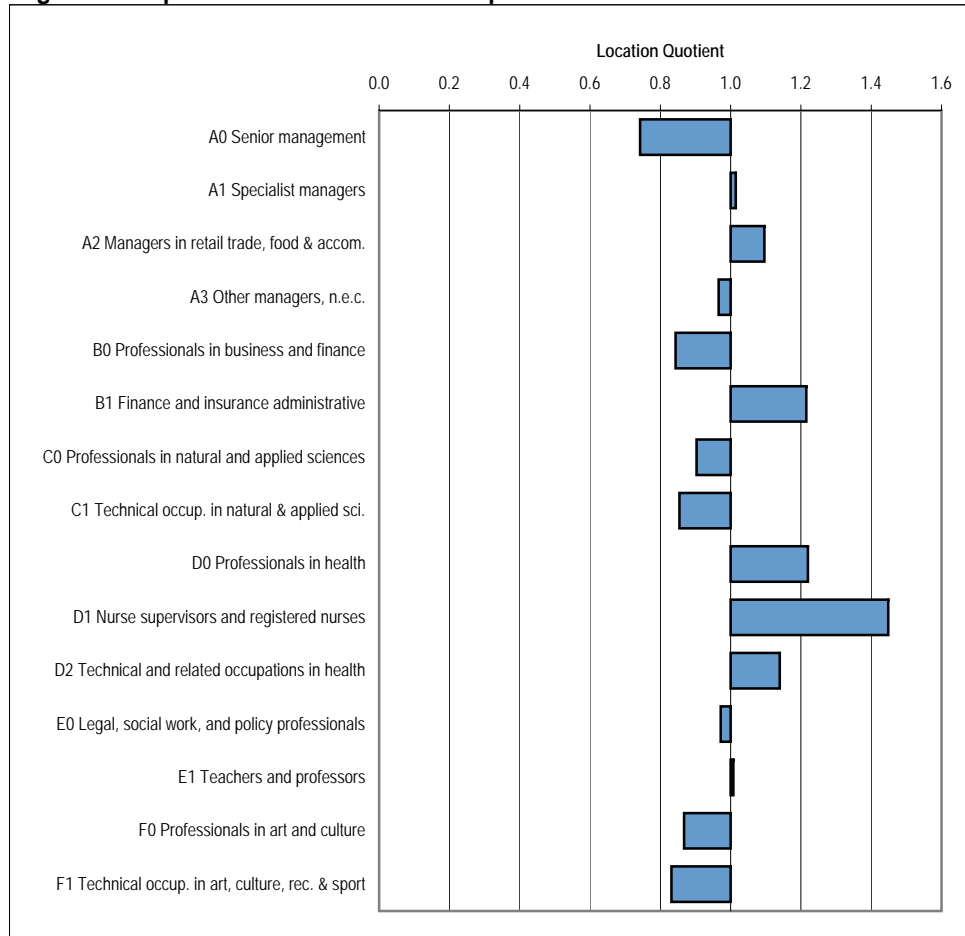


Figure 6.2 - Change in share of labour force, 1996-2006

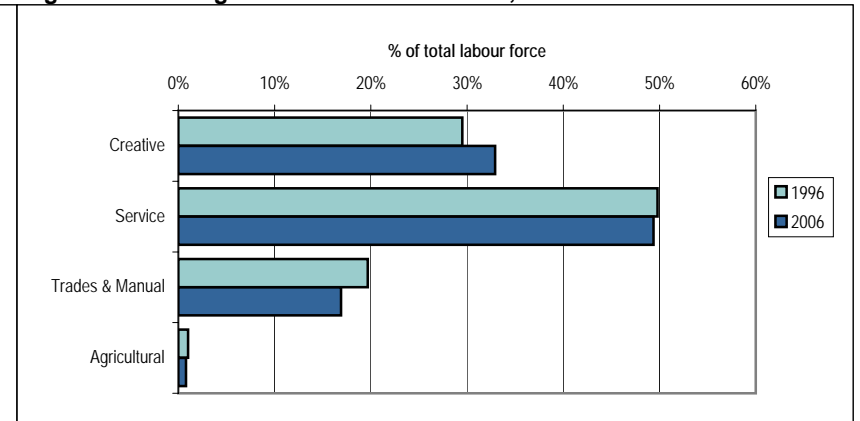
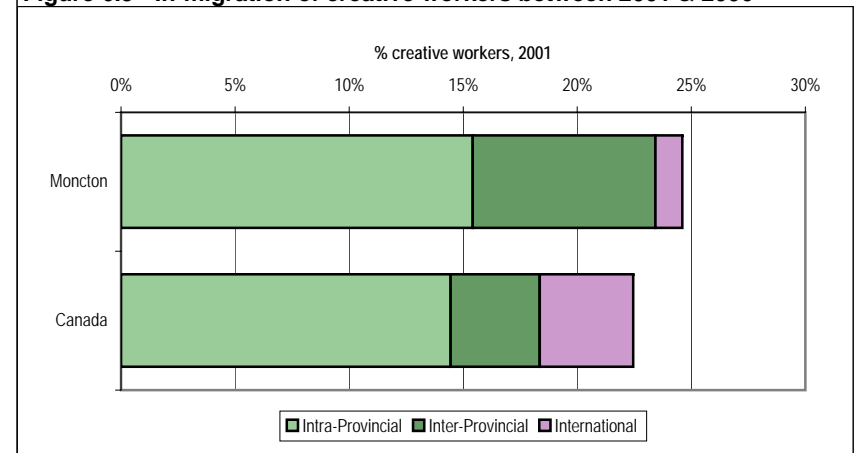


Figure 6.3 - In-migration of creative workers between 2001 & 2006

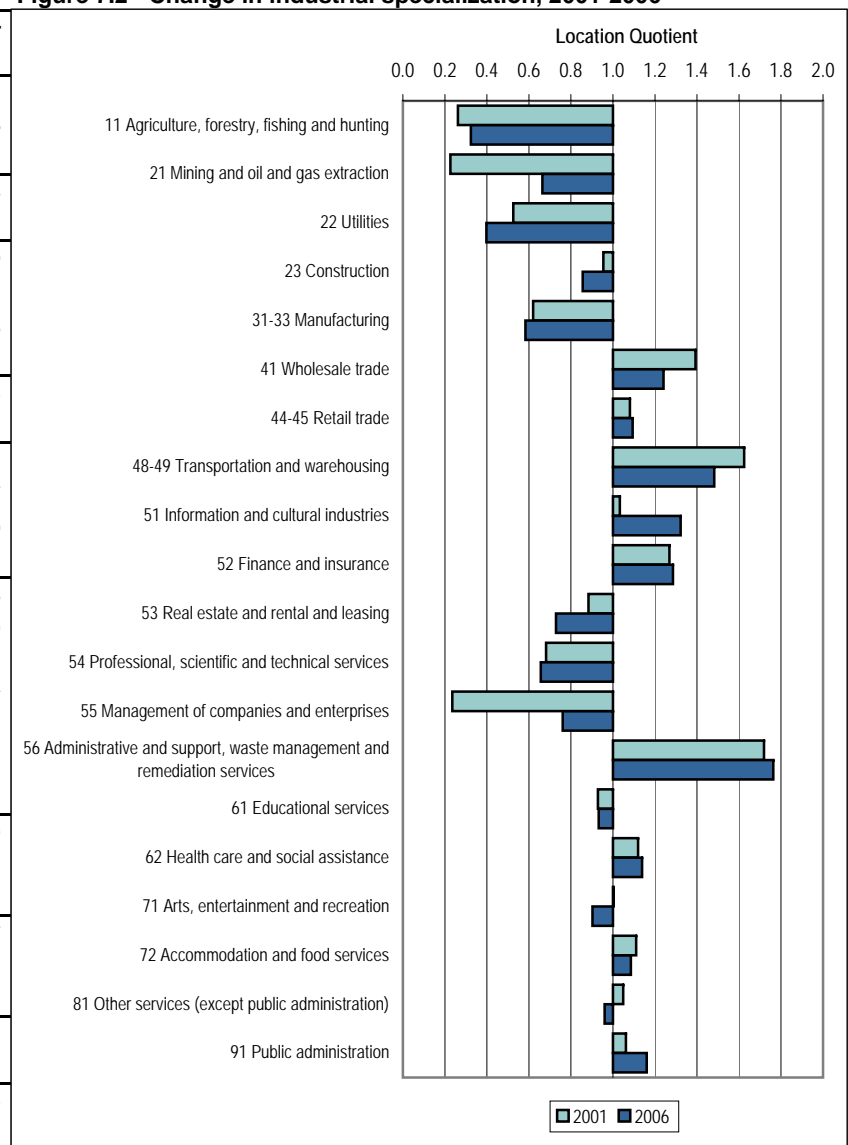


# 7 - Industrial Structure Moncton

**Figure 7.1 - Industry characteristics**

	# Labour force	% Labour force	% Change 2001-2006	% BA or higher	Average FT income
<b>All industries</b>	<b>70,130</b>	<b>100.0%</b>	<b>8.1%</b>	<b>19.9%</b>	<b>\$ 42,374</b>
11 Agr., forestry, fish. & hunt.	705	1.0%	13.7%	8.5%	\$ 33,344
21 Mining & oil/gas extraction	660	0.9%	312.5%	26.5%	\$ 61,540
22 Utilities	220	0.3%	-15.4%	9.3%	N/A
23 Construction	3,805	5.4%	8.9%	6.2%	\$ 41,593
31-33 Manufacturing	4,865	6.9%	-13.4%	11.8%	\$ 43,365
41 Wholesale trade	3,815	5.4%	-4.3%	11.9%	\$ 46,111
44-45 Retail trade	8,720	12.4%	10.4%	7.2%	\$ 32,857
48-49 Transport & warehousing	5,055	7.2%	-3.5%	7.3%	\$ 41,150
51 Information & cultural ind.	2,295	3.3%	27.9%	26.6%	\$ 44,503
52 Finance and insurance	3,685	5.3%	9.7%	27.7%	\$ 46,299
53 Real estate/rental & leasing	920	1.3%	-3.7%	9.2%	\$ 36,601
54 Prof., sci. & tech. services	3,065	4.4%	9.9%	40.5%	\$ 50,707
55 Mgmt. of companies	65	0.1%	333.3%	N/A	N/A
56 Admin./support, & wst. mgt.	5,300	7.6%	22.1%	8.9%	\$ 26,962
61 Educational services	4,460	6.4%	12.9%	62.6%	\$ 50,289
62 Health care & soc. assist.	8,130	11.6%	15.3%	31.0%	\$ 44,362
71 Arts, entertainment & rec.	1,300	1.9%	2.4%	26.9%	\$ 49,827
72 Accom. & food services	5,085	7.3%	5.1%	6.6%	\$ 23,002
81 Other services	3,275	4.7%	0.2%	11.6%	\$ 32,072
91 Public administration	4,725	6.7%	18.1%	34.7%	\$ 59,755

**Figure 7.2 - Change in industrial specialization, 2001-2006**





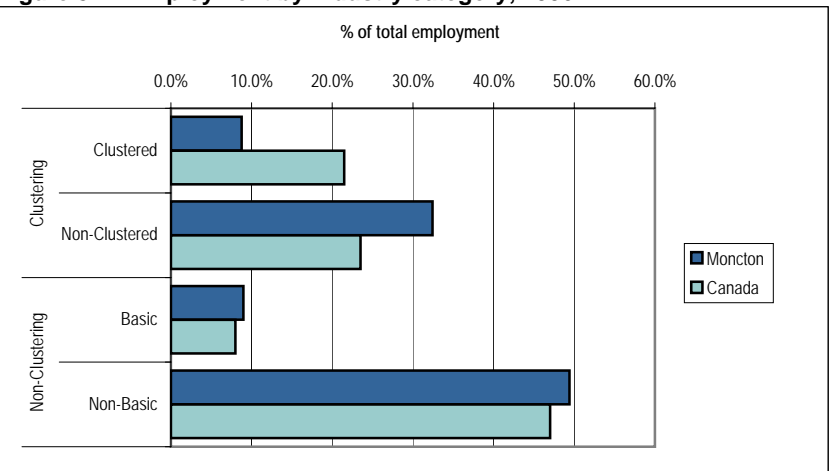
# 8 - Clusters Moncton

Number of clusters<sup>8</sup> 2  
 % employment in clusters<sup>8</sup> 8.8%

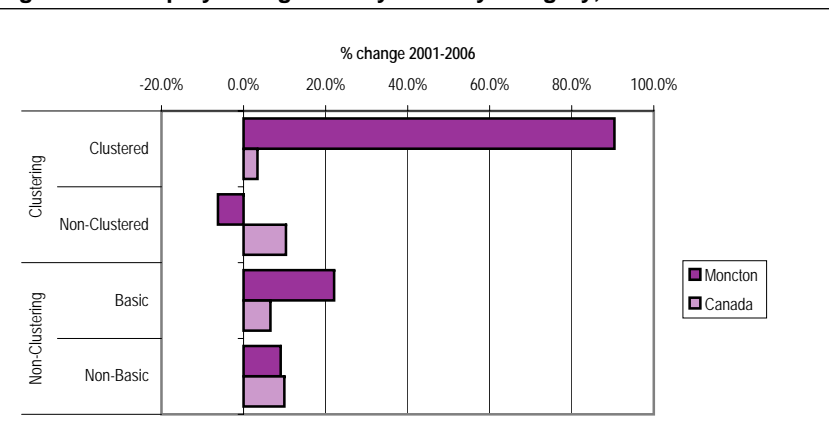
**Figure 8.1 - Cluster characteristics, 2006<sup>8</sup>**

	# Labour force	Labour force LQ	% Industry LQs > 1	% Growth 2001-2006	Cluster (yes/no)
<i>Resource-based</i>					
<b>Agriculture</b>	<b>1,700</b>	0.58	33.3%	-17.1%	NO
<b>Mining</b>	<b>820</b>	0.65	25.0%	1.9%	NO
<b>Oil and Gas</b>	<b>830</b>	0.80	22.2%	268.9%	NO
<b>Wood &amp; Wood Products</b>	<b>915</b>	0.69	10.0%	-12.9%	NO
<b>Maritime</b>	<b>370</b>	0.60	11.1%	19.4%	NO
<i>Manufacturing</i>					
<b>Textiles &amp; Apparel</b>	<b>145</b>	0.26	16.7%	-23.7%	NO
<b>Food</b>	<b>2,645</b>	1.35	75.0%	-24.9%	YES
<b>Steel</b>	<b>630</b>	0.46	8.3%	-2.3%	NO
<b>Automotive</b>	<b>390</b>	0.21	0.0%	0.0%	NO
<b>Plastics &amp; Rubber</b>	<b>1,170</b>	0.70	35.7%	14.7%	NO
<b>Biomedical</b>	<b>460</b>	0.73	16.7%	-7.1%	NO
<b>ICT Manufacturing</b>	<b>305</b>	0.36	0.0%	-57.3%	NO
<i>Service-based</i>					
<b>ICT Services</b>	<b>3,470</b>	1.04	40.0%	2.7%	NO
<b>Finance</b>	<b>6,145</b>	1.41	37.5%	6.5%	NO
<b>Business Services</b>	<b>9,270</b>	1.37	41.2%	9.3%	NO
<b>Creative &amp; Cultural</b>	<b>2,140</b>	0.80	11.8%	5.9%	NO
<b>Higher Education</b>	<b>2,165</b>	0.94	33.3%	9.1%	NO
<i>Other</i>					
<b>Construction</b>	<b>4,545</b>	0.78	16.7%	9.0%	NO
<b>Logistics</b>	<b>4,870</b>	1.42	50.0%	-3.2%	YES

**Figure 8.2 - Employment by industry category, 2006<sup>9</sup>**



**Figure 8.3 - Employment growth by industry category, 2001-2006<sup>9,10</sup>**

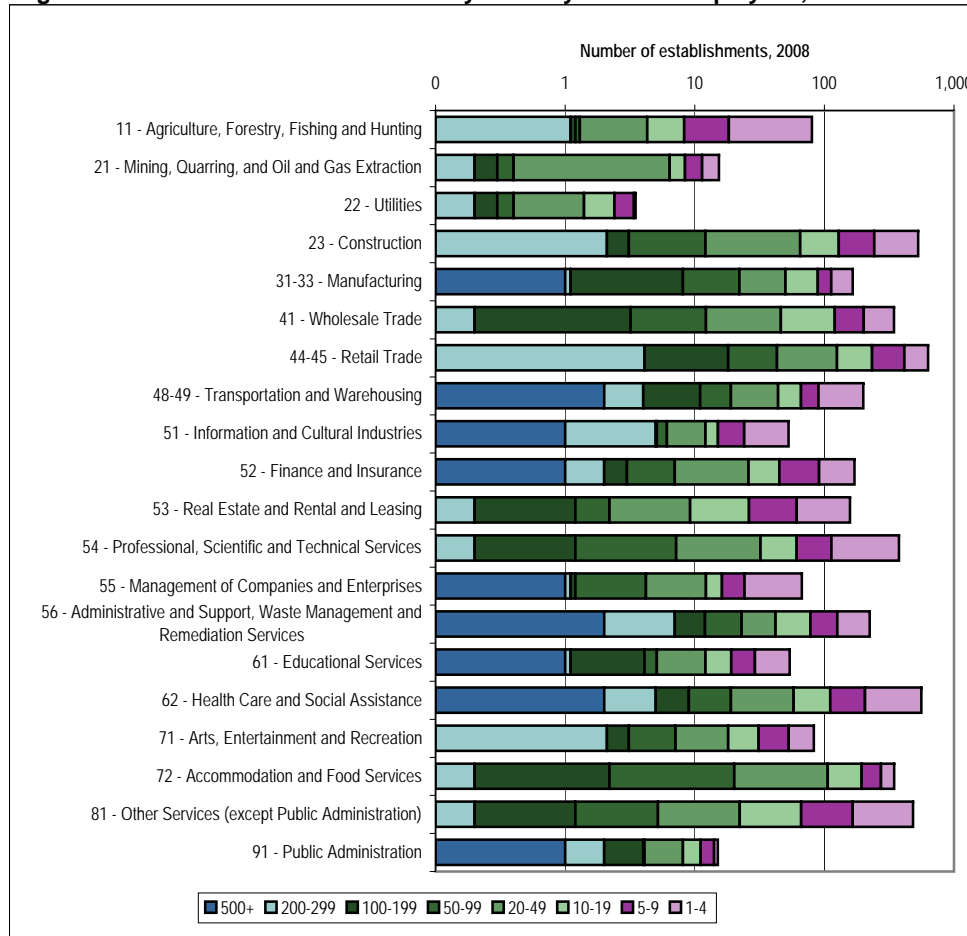


# 9 - Establishments

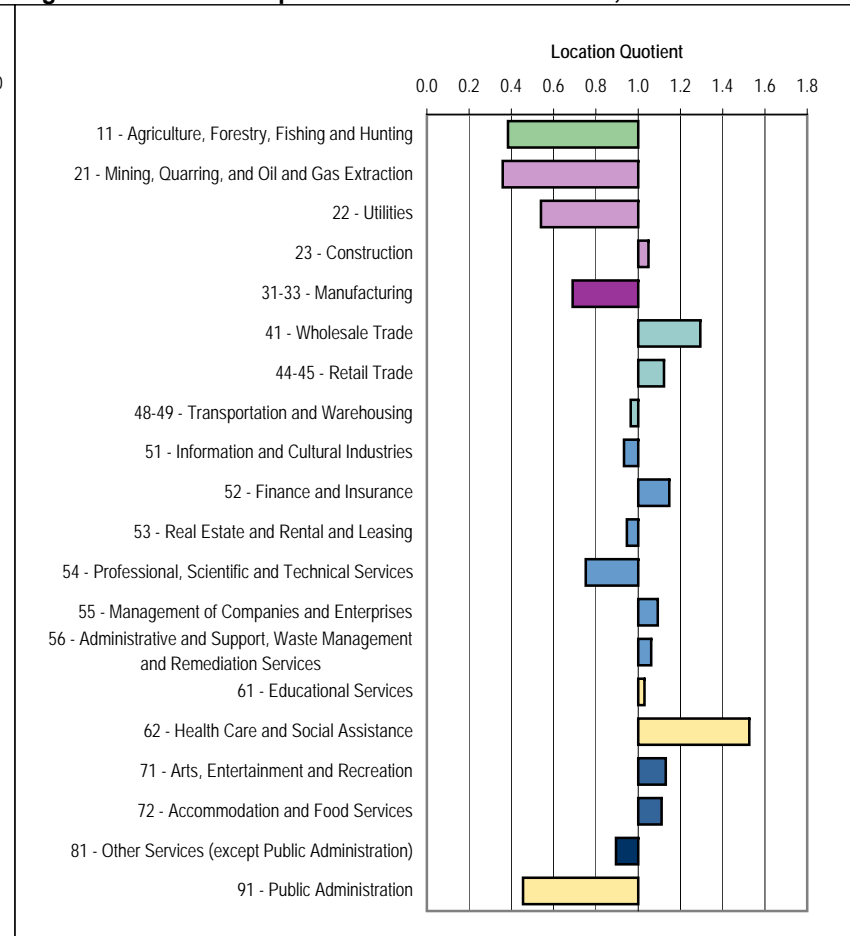
# Moncton

	% of establishments by number of employees							
	1-4	5-9	10-19	20-49	50-99	100-199	200-299	500+
<b>Moncton</b>	50.2%	20.7%	13.8%	10.5%	2.8%	1.2%	0.5%	0.3%
<b>Canada</b>	55.0%	20.2%	12.1%	7.8%	2.7%	1.2%	0.6%	0.3%

**Figure 9.1 - Number of establishments by industry and # of employees, 2008**



**Figure 9.2 - Industrial specialization - Establishments, 2008**



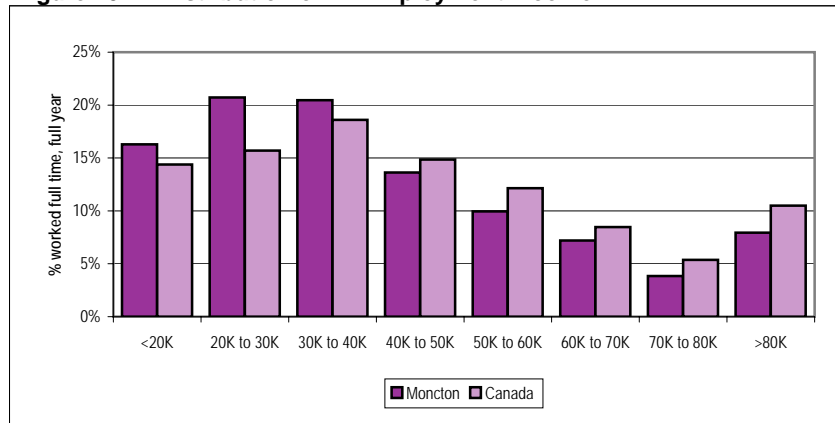
# 10 - Income Moncton

Full Time Employment Income, 2005			
		Average	Median
Moncton	\$	42,374	\$ 35,652
Canada	\$	51,221	\$ 41,401

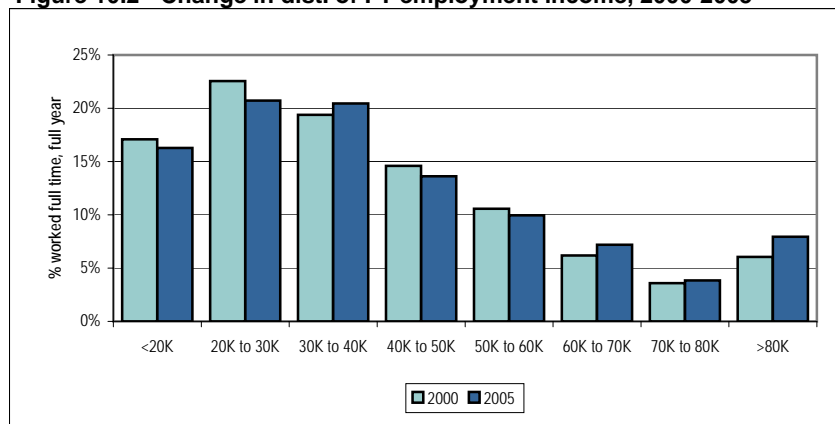
% Change in FT Emp. Income 2000-2005 <sup>11</sup>		
	Average	Median
Moncton	3.5%	4.2%
Canada	5.5%	2.4%

\*Constant dollars (2005)

**Figure 10.1 - Distribution of FT Employment Income**

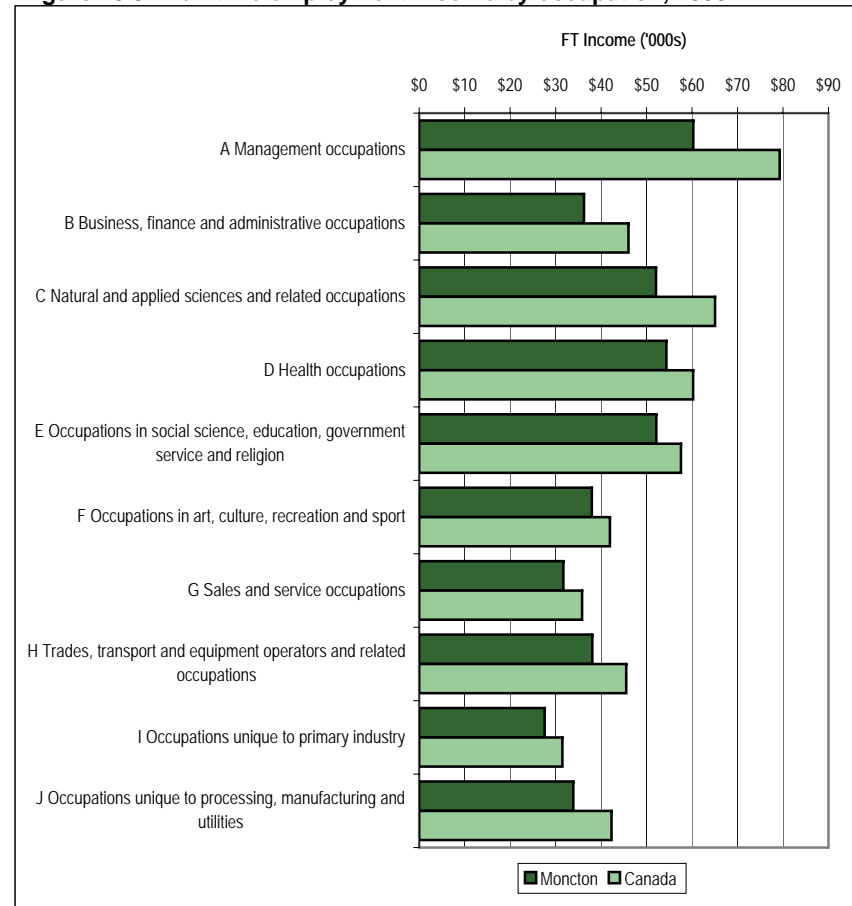


**Figure 10.2 - Change in dist. of FT employment income, 2000-2005**



\*Constant dollars (2005)

**Figure 10.3 - Full time employment income by occupation, 2005**



## Notes

<sup>1</sup> All educational attainment statistics are calculated for the population 15 years and over.

<sup>2</sup> The employment rate refers to the number of persons employed expressed as a percentage of the total population 15 years of age and over (excluding institutional residents).

<sup>3</sup> The unemployment rate refers to the number of unemployed persons expressed as a percentage of the total labour force 15 years of age and over.

<sup>4</sup> Self-employment is defined as persons 15 years of age and over for whom the job reported consisted mainly of operating a business, farm or professional practice, alone or in partnership. Examples include: operating a farm; working on a freelance or contract basis to do a job (e.g. architects, private duty nurses); or operating a direct distributorship selling and delivering products (e.g. cosmetics, newspapers). Respondents were asked to specify if their business was incorporated or unincorporated, as well as if they had paid help or no paid help.

<sup>5</sup> Bohemians are defined as artistic occupations and include the following occupational categories: F021 Authors and writers; F031 Producers, directors, choreographers and related occupations; F032 Conductors, composers and arrangers; F033 Musicians and singers; F034 Dancers; F035 Actors and comedians; F036 Painters, sculptors and other visual artists; F121 Photographers; F141 Graphic designers and illustrators; F142 Interior designers; F143 Theatre, fashion, exhibit and other creative designers; F144 Artisans and craftspersons; and F145 Patternmakers, textile, leather and fur products. See Florida (2002) and Gertler et al. (2002).

<sup>6</sup> Science and technology workers include the following occupational categories: C0 Professional occupations in natural and applied sciences; and C1 Technical occupations related to natural and applied sciences. See Feinstein and McAlinden (2002).

<sup>7</sup> Following the method outlined in Florida (2002), we have divided the Canadian occupational structure into four broad categories: creative occupations; service occupations; trade and manual labour occupations; and agricultural and related occupations. These are defined using the National Occupational Classification for Statistics (NOCS) at the 2-digit level.

- *Creative occupations* include: A0 Senior management occupations; A1 Specialist managers; A2 Managers in retail trade, food and accommodation services; A3 Other managers, n.e.c.; B0 Professional occupations in business and finance; B1 Finance and insurance administrative occupations; C0 Professional occupations in natural and applied sciences; C1 Technical occupations related to natural and applied sciences; D0 Professional occupations in health; D1 Nurse supervisors and registered nurses; D2 Technical and related occupations in health; E0 Judges, lawyers, psychologists, social workers, ministers of religion, and policy and program officers; E1 Teachers and professors; F0 Professional occupations in art and culture; and F1 Technical occupations in art, culture, recreation and sport.

- *Service occupations* include: B2 Secretaries; B3 Administrative and regulatory occupations; B4 Clerical supervisors; B5 Clerical occupations; D3 Assisting occupations in support of health services; E2 Paralegals, social services workers and occupations in education and religion, n.e.c.; and G Sales and Service Occupations.

- *Trades and manual labour occupations* include: H Trades, Transport and Equipment Operators and Related Occupations; I2 Primary production labourers; and J Occupations Unique to Processing, Manufacturing and Utilities.

- *Agriculture and related occupations* include: I0 Occupations unique to agriculture, excluding labourers; and I1 Occupations unique to forestry operations, mining, oil and gas extraction and fishing, excluding labourers.

<sup>8</sup> The method for identifying and defining cluster is based on previous ISRN work (see Spencer and Vinodrai 2005). Clusters are defined as constellations of industries defined using the North American Industrial Classification Systems (NAICS) at the 4-digit level based on patterns of location and co-location within the Canadian space economy. Constellations of industries must meet three criteria within a particular place to be defined as a cluster: 1) there must be 1,000 or more employees; 2) the overall employment LQ must be greater than or equal to 1; and 3) at least half of the industries that comprise a particular cluster in a particular place must have an individual employment LQ greater than or equal to 1.

<sup>9</sup> The method for identifying and defining cluster is based on previous ISRN work (see Spencer, Vinodrai, Gertler and Wolfe 2010). We divide industries and employment into four categories: Non-basic, basic, non-clustered, and clustered. Non-Basic industries are those industries which do not demonstrate a pattern of geographic concentration in particular places. Basic industries are those industries which are geographically concentrated in particular places but do not exhibit patterns of systematic co-location with other industries. The remaining industries have the potential to cluster but do not always do so. Therefore, non-clustered employment is in those industries which do co-locate with other industries, but do not exhibit cluster characteristics in a particular location (see above). Clustered employment is that employment in industries which co-locate with other industries and exhibit cluster characteristics (see above).

<sup>10</sup> Growth is calculated as % change in total employment between 2001 and 2006.

<sup>11</sup> Canadian censuses were conducted in 2001 and 2006. Income data relate to the calendar year prior to the census year, i.e. 1995 and 2000 respectively.

## Data Sources and References

### Data Sources

Statistics Canada. 2006. Age and Sex for the Population of Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 2001 and 2006 Censuses - 100% Data . Catalog # 97-551-XCB2006009. Ottawa, ON: Statistics Canada.

Statistics Canada. 2006. Census Family Status, Age Groups and Sex for the Population in Private Households of Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 2006 Census - 20% Sample Data. Catalog # 97-553-XCB2006014. Ottawa, ON: Statistics Canada.

Statistics Canada. 2006. Mobility Status 5 Years Ago, Mother Tongue, Age Groups and Sex for the Population Aged 5 Years and Over of Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 2006 Census - 20% Sample Data . Catalog # 97-556-XCB2006006. Ottawa, ON: Statistics Canada.

Statistics Canada. 2006. Citizenship, Place of Birth, Sex and Immigrant Status and Period of Immigration for the Population of Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 2006 Census - 20% Sample Data. Catalog # 97-557-XCB2006008. Ottawa, ON: Statistics Canada.

Statistics Canada. 2006. Highest Certificate, Diploma or Degree, Location of Study, Major Field of Study - Classification of Instructional Programs, 2000, Age Groups and Sex for the Population 15 Years and Over of Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 2006 Census - 20% Sample Data. Catalog # 97-560-XCB2006017. Ottawa, ON: Statistics Canada.

Statistics Canada. 2006. Total Income Groups in Constant (2005) Dollars, Age Groups, Highest Certificate, Diploma or Degree and Sex for the Population 15 Years and Over of Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 2006 Census - 20% Sample Data. Catalog # 97-563-XCB2006005. Ottawa, ON: Statistics Canada.

Statistics Canada. 2006. Labour Force Activity, Visible Minority Groups, Immigrant Status and Period of Immigration, Age Groups and Sex for the Population 15 Years and Over of Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 2006 Census - 20% Sample Data. Catalog # 97-562-XCB2006013. Ottawa, ON: Statistics Canada.

Statistics Canada. 2006. Labour Force Activity, Highest Certificate, Diploma or Degree, Major Field of Study - Classification of Instructional Programs, 2000, Age Groups and Sex for the Population 15 Years and Over of Canada, Provinces, Territories, Census Agglomerations, 2006 Census - 20% Sample Data. Catalog # 97-560-XCB2006011. Ottawa, ON: Statistics Canada.

Statistics Canada. 2006. Labour Force Activity, Highest Certificate, Diploma or Degree, Major Field of Study - Classification of Instructional Programs, 2000, Age Groups and Sex for the Population 15 Years and Over of Canada, Provinces, Territories, Census Agglomerations, 2006 Census - 20% Sample Data. Catalog # 97-560-XCB2006011. Ottawa, ON: Statistics Canada.

Statistics Canada. 2006. Occupation - Standard Occupational Classification 1991 (Historical), Age Groups and Sex for the Labour Force 15 Years and Over of Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 1996 to 2006 Censuses - 20% Sample Data. Catalog # 97-559-XCB2006012. Ottawa, ON: Statistics Canada.

Statistics Canada. 2006. Industry - North American Industry Classification System 2002, Sex and Selected Demographic, Cultural, Labour Force, Educational and Income Characteristics, for the Population 15 Years and Over of Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 2006 Censuses - 20% Sample Data. Catalog # 97-564-XCB2006006. Ottawa, ON: Statistics Canada.

Statistics Canada. 2008. June 2008 Establishment Counts by CA/CMA, Sectors & Employment Size Ranges. Ottawa, ON: Statistics Canada.

Statistics Canada. 2006. Occupation - National Occupational Classification for Statistics 2006, Sex and Selected Demographic, Cultural, Labour Force, Educational and Income Characteristics for the Population 15 Years and Over of Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 2006 Census - 20% Sample Data. Catalog # 97-564-XCB2006005. Ottawa, ON: Statistics Canada.

Statistics Canada. 2006. Employment Income Groups in Constant (2005) Dollars, Age Groups, Highest Certificate, Diploma or Degree, Work Activity in the Reference Year and Sex for the Population 15 Years and Over of Canada, Provinces, Territories, Census Metropolitan Areas and Census Agglomerations, 2006 Census - 20% Sample Data. Catalog # 97-563-XCB2006054. Ottawa, ON: Statistics Canada.

### References

Feinstein, A. and McAlinden, S.P. 2002. *Michigan: The High-Technology Automotive State*. Report prepared for the Michigan Economic Development Corporation. (August). [Available at [www.cargroup.org](http://www.cargroup.org)]

Florida, R. 2002. *Rise of the Creative Class*. New York: Basic Books.

Gertler, M.S., Florida, R., Gates, G., and Vinodrai, T. 2002. *Competing on creativity: Ontario's cities in North American context*. Report prepared for the Institute of Competitiveness and Prosperity and the Ontario Ministry of Enterprise, Opportunity and Innovation. (November) [Available at <http://www.utoronto.ca/progris/recentpub.htm>]

Spencer, G.M., Vinodrai, T., Gertler, M.S. and Wolfe, D.A. 2010. Do clusters make a difference? Defining and assessing their economic performance, *Regional Studies* (Forthcoming)

For further information, please contact:

Greg Spencer: (416) 946-8921 or [greg.spencer@utoronto.ca](mailto:greg.spencer@utoronto.ca)

Tara Vinodrai: (519) 579-3475 ext. 33278 or [vinodra@uwaterloo.ca](mailto:vinodra@uwaterloo.ca)

Last Updated: April 1, 2009