Innovation Systems Research Network City-Region Profile, 2006

St. John's

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Summary and Highlights

Key Indicators	St. John's	Canada
Population, 2006	181,115	31,612,890
Population Change, 2001-2006	4.7%	5.4%
% Foreign Born	2.9%	19.8%
% BA Degree or higher	18.8%	18.1%
# Employed	87,890	15,958,195
Employment Growth 1996-2006	17.3%	19.8%
Employment Rate	58.7%	62.4%
Unemployment Rate	10.0%	6.6%
% 'Creative' occupations	38.6%	33.2%
% Science & Tech. Occupations	8.0%	6.6%
'Bohemians' per 1,000 Labour Force	11.3	14.2
Number of Industrial Clusters	5	255
% Employment in Clusters	19.9%	22.1%
Average FT Employment Income	\$ 48,392	\$ 51,221
% Change Average Income 2000-2005	7.4%	5.5%

1 - Demographics

St. John's

Population	2001	2006	% Change 2001-2006
St. John's	172,915	181,115	4.7%
Canada	30,007,085	31,612,890	5.4%

Age Groups	Under 15	15 to 64	65 and over	% 15 to 64
St. John's	46,360	104,790	20,760	61.0%
Canada	9,800,715	17,476,925	4,335,250	55.3%

Figure 1.1 - Population by age and gender, 2006

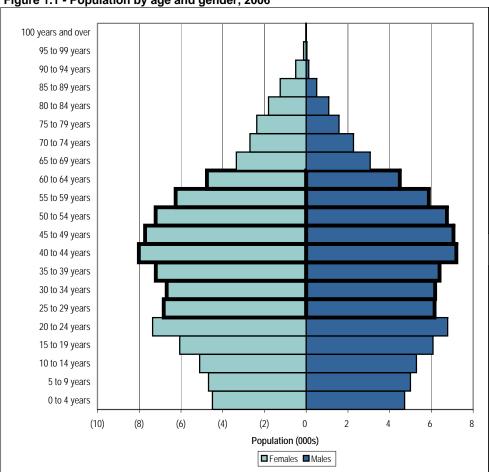


Figure 1.2 - Population by age group, 2001-2006

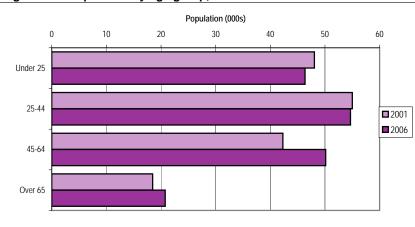
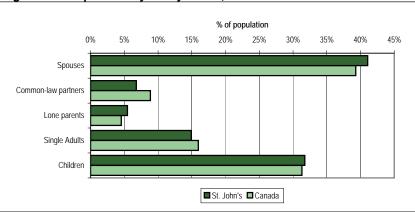


Figure 1.3 - Population by family status, 2006



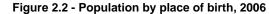
2 - Migration & Population Change

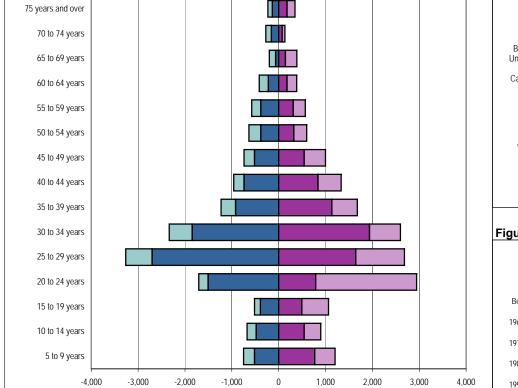
St. John's

	Intra-	Inter-	
Domestic Migration	provincial	provincial	Total
In-flows, 2001-2006	7,925	9,920	17,845
Out-flows, 2001-2006	3,560	10,945	14,505
Net, 2001-2006	4,365	(1,025)	3,340

	% Foreign born	Migrated post-1991	Migrated pre- 1991
St. John's	2.9%	1.1%	1.8%
Canada	19.8%	8.9%	10.9%

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





Number of migrants

■ Inter-Provincial IN

■ Intra-Provincial IN

■ Intra-Provincial OUT

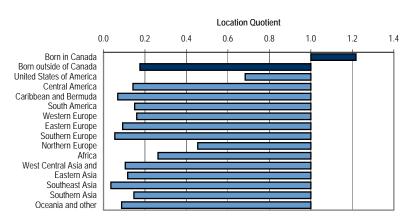
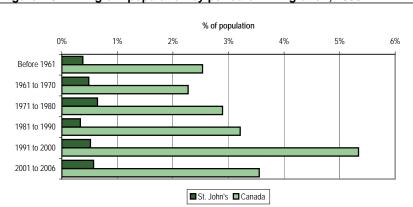


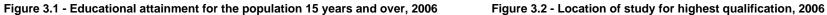
Figure 2.3 - Immigrant population by period of immigration, 2006

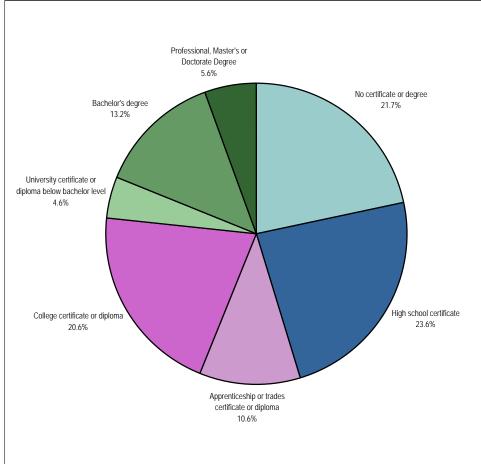


■ Inter-Provincial OUT

3 - Education St. John's

	% College degree or					% BA degre	ee or hig
	higher ¹	or higher ¹	or higher ¹	1,000 ¹		2001	200
St. John's	44.0%	18.8%	5.6%	8.1	St. John's	16.7%	18.89
Canada	39.8%	18.1%	4.6%	6.9	Canada	15.4%	18.1





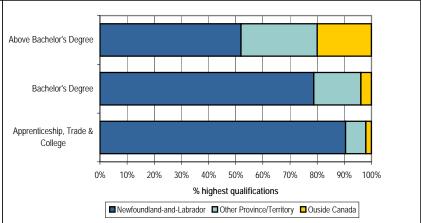
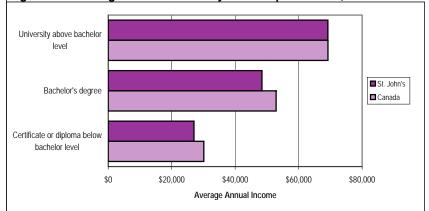


Figure 3.3 - Average annual income by level of qualification, 2006



4 - Employment

St. John's

_	Employment Rate				
	1996	2001	2006		
St. John's	54.4%	57.0%	58.7%		
Canada	58.9%	61.5%	62.4%		

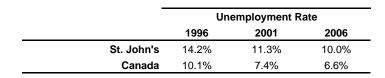


Figure 4.1 - Labour force status of the population 15 and over, 1996 & 2006

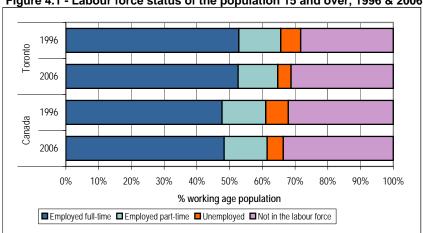


Figure 4.2 - Employment Rate by Educational Attainment, 2006

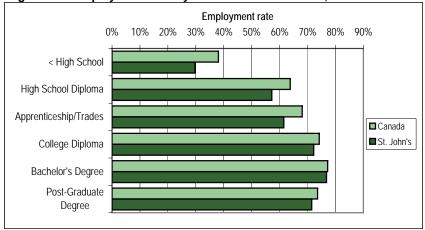


Figure 4.3 - Employment rate² by age, 2006

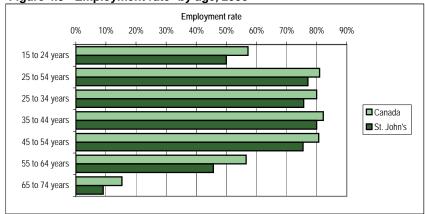
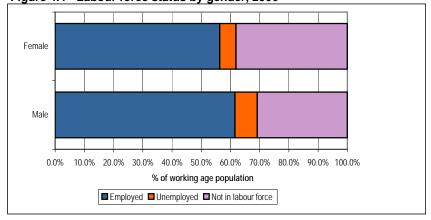


Figure 4.4 - Labour force status by gender, 2006



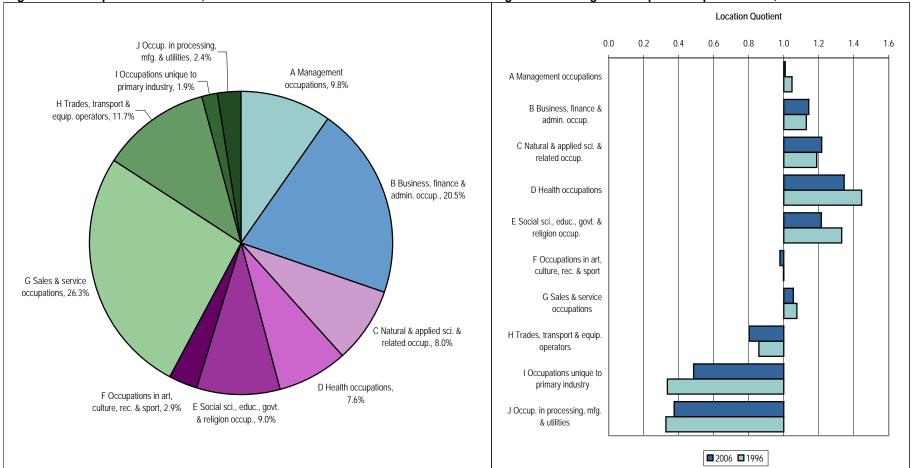
5 - Occupational Structure

St. John's

	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
St. John's	30.6%	30.3%	30.3%	25.3%	26.8%	27.5%	44.1%	42.9%	42.3%
Canada	27.8%	28.2%	27.6%	19.8%	21.3%	22.6%	52.4%	50.5%	49.8%







6 - Creative Occupations

St. John's

•		% S&T		
	Bohemians	per 1000⁵	S&T Workers	Workers ⁶
St. John's	1,085	11.3	7,660	8.0%
Canada	240,170	14.2	1,108,050	6.6%

Occupational Groups ⁷	Creative	Service	Trades & Manual	Agricultural & Resources
St. John's	38.6%	45.5%	14.6%	1.3%
Canada	33.2%	41.9%	21.9%	2.9%



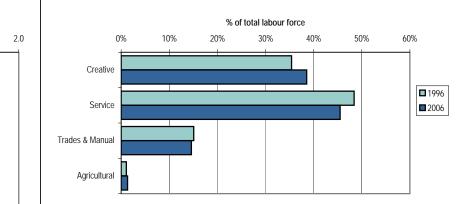
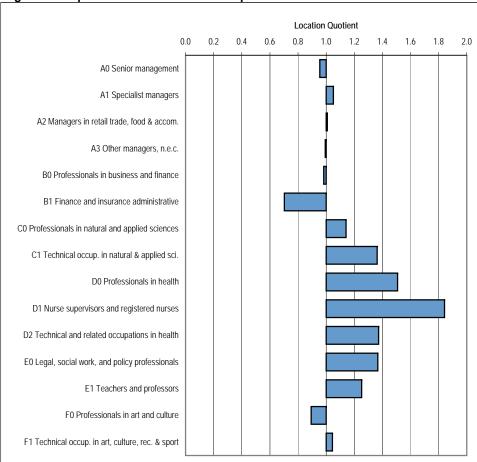
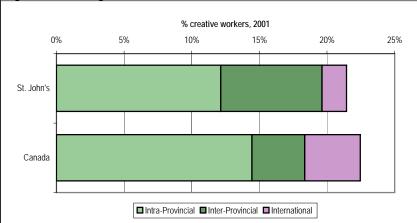


Figure 6.2 - Change in share of labour force, 1996-2006





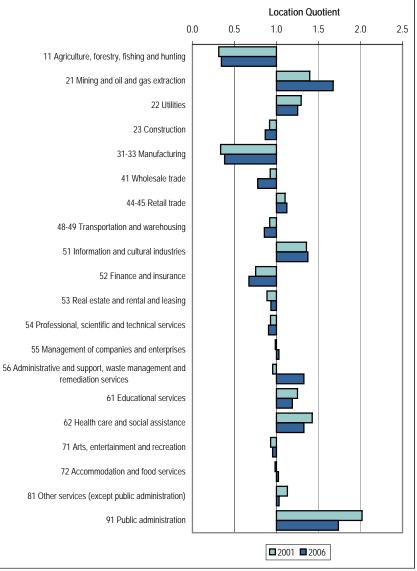


7 - Industrial Structure St. John's

Figure 7.1 - Industry characteristics

% Change % BA or # Labour % Labour Average FT force force 2001-2006 higher income All industries 95,735 100.0% 9.2% 23.7% \$ 48,392 11 Agr., forestry, fish. & hunt. 1,025 1.1% 2.5% 7.3% \$ 38,369 21 Mining & oil/gas extraction 2,270 2.4% 70.0% 29.9% \$ 89,140 22 Utilities \$ 945 1.0% 9.2% 26.1% 69,876 23 Construction 5,260 5.5% 15.9% 5.9% \$ 42,578 31-33 Manufacturing 4,355 4.5% 6.3% 13.9% \$ 49,030 41 Wholesale trade 3,260 3.4% -8.8% 12.9% \$ 45,925 44-45 Retail trade 12,230 12.8% 12.3% 8.8% \$ 33,320 48-49 Transport & warehousing 3,985 4.2% -0.5% 7.3% \$ 47,009 3.255 24.3% \$ 51 Information & cultural ind. 3.4% 2.2% 55,771 52 Finance and insurance 2.630 2.7% -2.2% 26.4% \$ 63.185 \$ 53 Real estate/rental & leasing 1,610 1.7% 24.3% 17.4% 38.073 54 Prof., sci. & tech. services 5,770 6.0% 12.4% 48.6% \$ 65,590 55 Mgmt. of companies 120 41.2% 12.5% N/A 0.1% 56 Admin./support, & wst. mgt. 67.1% 11.9% \$ 28,954 5,440 5.7% \$ 61 Educational services 7,770 8.1% 8.1% 66.3% 53,460 \$ 62 Health care & soc. assist. 12,920 13.5% 6.6% 31.3% 50,459 \$ 71 Arts, entertainment & rec. 1,875 2.0% 17.9% 19.5% 32,415 \$ 72 Accom. & food services 6,545 6.8% 13.0% 6.6% 23,938 81 Other services 4,800 5.0% 0.8% 15.2% \$ 34,328 91 Public administration 9,650 10.1% -6.1% 31.7% \$ 55,774

Figure 7.2 - Change in industrial specialization, 2001-2006



8 - Clusters St. John's

Number of clusters⁸ 5 % employment in clusters8 19.9%

	# Labour force	Labour force LQ	% Industry LQs > 1	% Growth 2001-2006	Cluster (yes/no)
Resource-based					
Agriculture	1,155	0.29	6.7%	6.0%	NO
Mining	2,160	1.26	37.5%	23.8%	NO
Oil and Gas	2,455	1.74	55.6%	74.1%	YES
Wood & Wood Products	515	0.29	30.0%	2.0%	NO
Maritime	2,240	2.68	77.8%	-6.9%	YES
Manufacturing					
Textiles & Apparel	155	0.20	0.0%	72.2%	NO
Food	2,820	1.05	41.7%	-10.3%	NO
Steel	1,210	0.65	8.3%	20.4%	NO
Automotive	365	0.14	0.0%	28.1%	NO
Plastics & Rubber	815	0.36	7.1%	14.8%	NO
Biomedical	695	0.80	50.0%	52.7%	NO
ICT Manufacturing	665	0.58	11.1%	14.7%	NO
Service-based					
ICT Services	7,185	1.58	60.0%	3.2%	YES
Finance	4,595	0.77	18.8%	-3.6%	NO
Business Services	13,050	1.41	52.9%	23.6%	YES
Creative & Cultural	3,440	0.95	41.2%	3.3%	NO
Higher Education	5,175	1.64	55.6%	6.8%	YES
Other					
Construction	7,305	0.92	33.3%	19.5%	NO
Logistics	4,125	0.88	26.9%	-7.0%	NO

Figure 8.2 - Employment by industry category, 20069

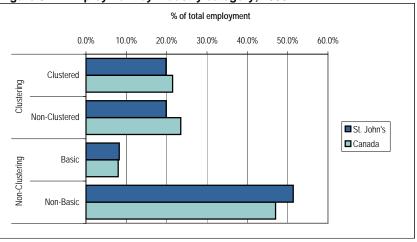
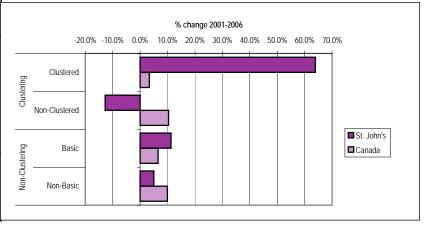


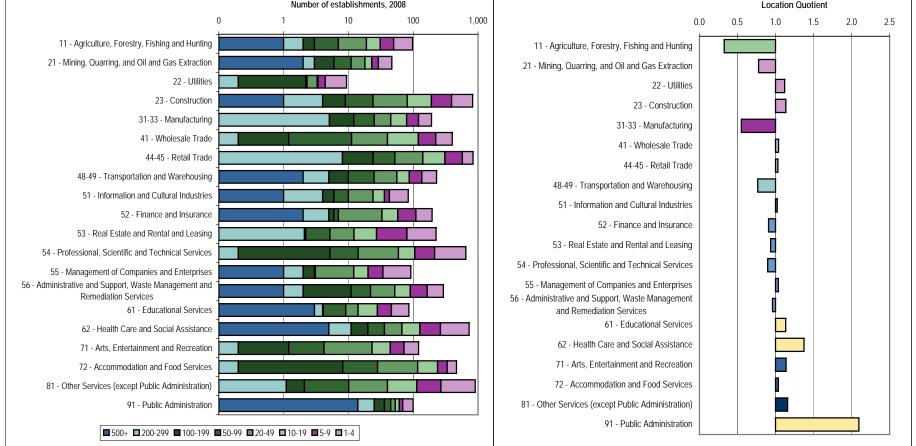
Figure 8.3 - Employment growth by industry category, 2001-2006^{9,10}



9 - Establishments St. John's

	% of establishments by number of employees								
	1-4	5-9	10-19	20-49	50-99	100-199	200-299	500+	
St. John's	51.1%	21.8%	13.4%	8.5%	2.7%	1.3%	0.8%	0.5%	
Canada	55.0%	20.2%	12.1%	7.8%	2.7%	1.2%	0.6%	0.3%	

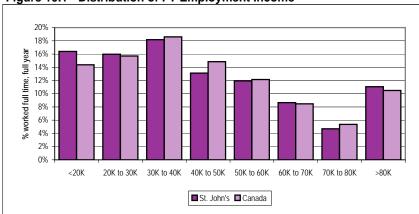


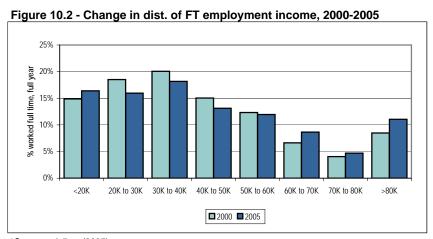


10 - Income St. John's

Full Time Employment				
Income, 2005	Average		Median	
St. John's	\$	48,392	\$	39,592
Canada	\$	51,221	\$	41,401

Figure 10.1 - Distribution of FT Employment Income



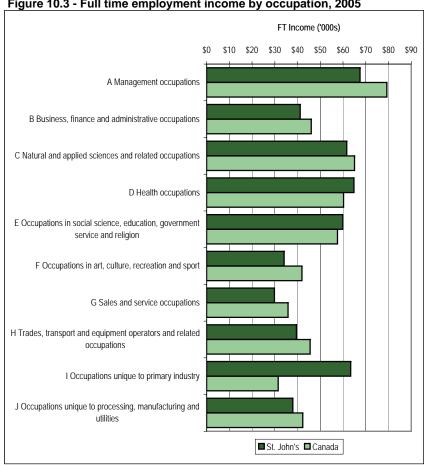


^{*}Constant dollars (2005)

% Change in FT Emp. Income 2000-2005¹¹ Average Median St. John's 7.4% 3.9% Canada 5.5% 2.4%

*Constant dollars (2005)

Figure 10.3 - Full time employment income by occupation, 2005



Notes

- ¹ All educational attainment statistics are calculated for the population 15 years and over.
- ² 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).
- ³ 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.
- ⁴ 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.
- ⁵ 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).
- ⁶ 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).
- ⁷ 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.
- ⁸ 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 colocation 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.
- ⁹ 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).

¹⁰ Growth is calculated as % change in total employment between 2001 and 2006.

¹¹ 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

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