Innovation Systems Research Network City-Region Profile

Grand Falls-Windsor

Summary and Highlights

Key Indicators	 nd Falls- ïndsor	(Canada
Population, 2001	18,985	3	0,007,085
Population Change, 1996-2001	-6.9%		4.0%
% Foreign Born	1.0%		18.2%
% BA Degree or higher	7.2%		15.4%
Labour Force	15,595	2	3,901,360
Employment Rate	42.6%		61.5%
Unemployment Rate	20.6%		7.4%
% 'Creative' occupations	30.0%		29.2%
% Science & Tech. Occupations	3.2%		6.4%
'Bohemians' per 1,000 Labour Force	3.1		13.1
Number of Clusters	-		263
% Employment in Clusters	0.0%		22.1%
% Establishments in Clusters	0.0%		19.9%
Establishments	646		1,048,286
Compound Annual Growth, 1998-2005	-1.5%		1.1%
Average Household Income	\$ 44,324	\$	58,360
Average Employment Income	\$ 24,859	\$	31,757

Greg Spencer and Tara Vinodrai

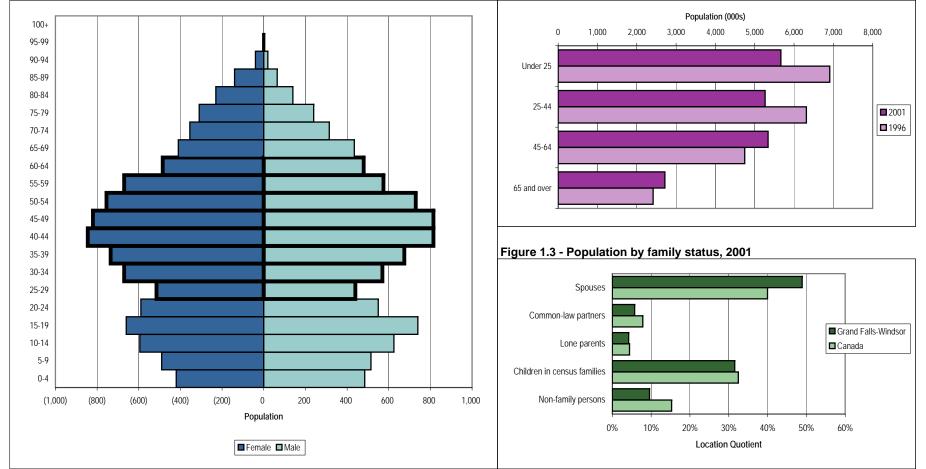
Program on Globalization and Regional Innovation Systems (PROGRIS) Munk Centre for International Studies University of Toronto

3/26/2007

1 - Demographics

Population	1996	2001	% Change 1996-2001
Grand Falls-Windsor	20,385	18,985	-6.9%
Canada	28,846,770	30,007,085	4.0%

Figure 1.1 - Population by age and gender, 2001



-

Grand Falls-Windsor

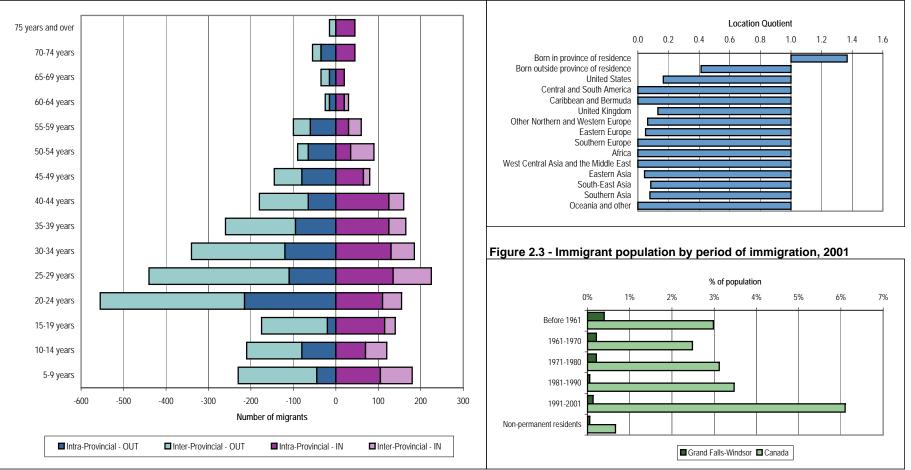
Age Groups	Under 15	15 to 64	65 and over	% 15 to 64
Grand Falls-Windsor	3,130	13,135	2,710	69.2%
Canada	5,725,540	20,393,000	3,888,545	68.0%

Figure 1.2 - Population by age group, 1996-2001

2 - Migration & Population Change

Domestic Migration	Intra- nestic Migration provincial pro				
In-flows, 1996-2001	1,175	525	1,700		
Out-flows, 1996-2001	1,020	1,835	2,855		
Net, 1996-2001	155	(1,310)	(1,155)		

Figure 2.1 - Domestic migration flows between 1996 and 2001 by age



Grand Falls-Windsor

	% Foreign born	Migrated post-1991	Migrated pre- 1991
Grand Falls-Windsor	1.0%	0.1%	0.9%
Canada	18.2%	6.1%	12.1%

Figure 2.2 - Population by place of birth, 2001

Prepared by Greg Spencer and Tara Vinodrai

3 - Education

	% College degree or higher ¹	% BA degree or higher ¹	% MA degree or higher ¹	PhDs per 1,000 ¹
Grand Falls-Windsor	20.9%	7.2%	1.3%	0.0
Canada	32.9%	15.4%	3.2%	5.4

Figure 3.1 - Educational attainment for the population 15 years and over, 2001

High school certificate only,

10.4%

Master's Degree or Higher, 1.3%

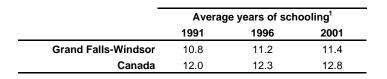
Bachelor's Degree, 5.8%-

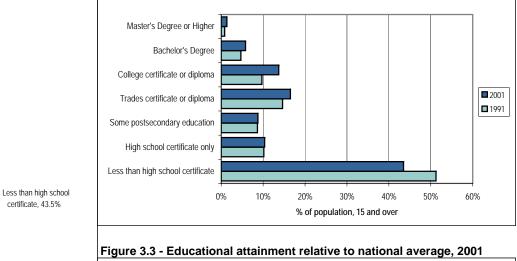
Some postsecondary education, 8.8%

College certificate or

diploma, 13.7%

Trades certificate or diploma 16.5%





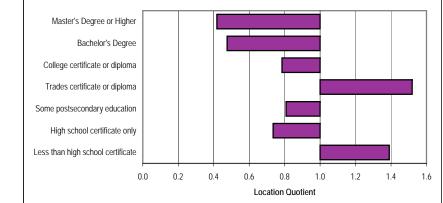


Figure 3.2 - Change in educational attainment, 1991-2001

4 - Employment

_	Employm	ent Rate ²	Unemploy	ment Rate ³
	1991	2001	1991	2001
Grand Falls-Windsor	43.6%	42.6%	24.9%	20.6%
Canada	61.0%	61.5%	10.2%	7.4%

Figure 4.1 - Labour force status of the population 15 and over, 2001

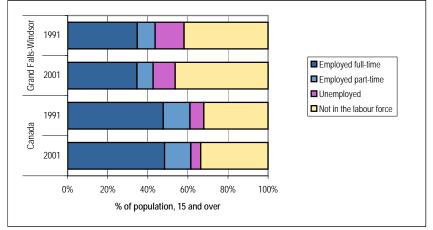
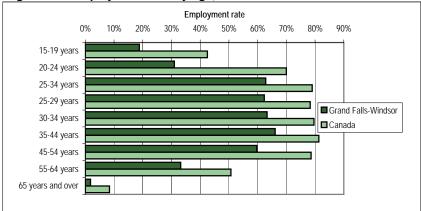


Figure 4.3 - Employment rate² by age, 2001



Average hours worked per	Fer	nale	Ma	ale
week	1991	2001	1991	2001
Grand Falls-Windsor	33.7	34.6	40.0	41.3
Canada	34.0	34.7	41.6	42.1

Figure 4.2 - Labour force status by gender, 2001

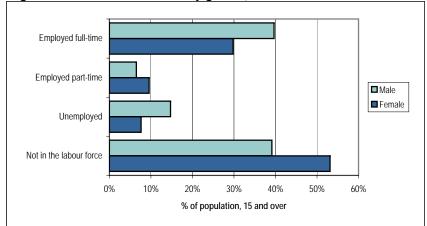
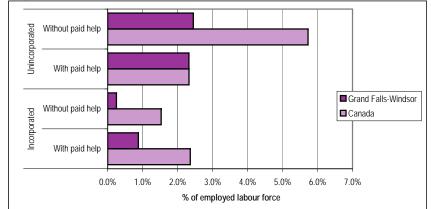


Figure 4.4 - Self employment by type⁴, 2001



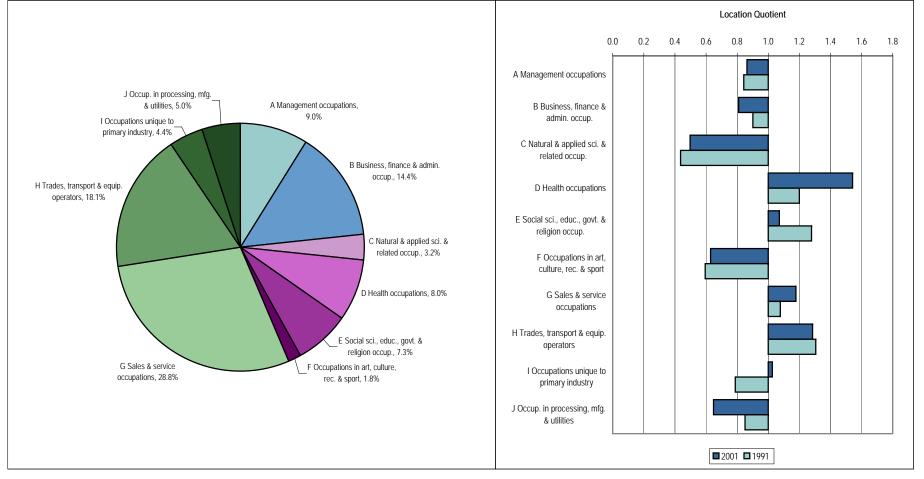
5 - Occupational Structure

Grand Falls-Windsor

	A-B Management, business & finance occupations			al/social scien			service, trades		
	1991	1996	2001	1991	1996	2001	1991	1996	2001
Grand Falls-Windsor	25.2%	23.1%	23.4%	17.9%	20.0%	20.4%	56.9%	56.9%	56.3%
Canada	28.6%	27.8%	28.2%	18.8%	19.8%	21.3%	52.5%	52.4%	50.5%

Figure 5.1 - Occupational structure, 2001

Figure 5.2 - Change in occupational specialization, 1991-2001



Agricultural

3.3%

4.3%

Grand Falls-Windsor

Trades &

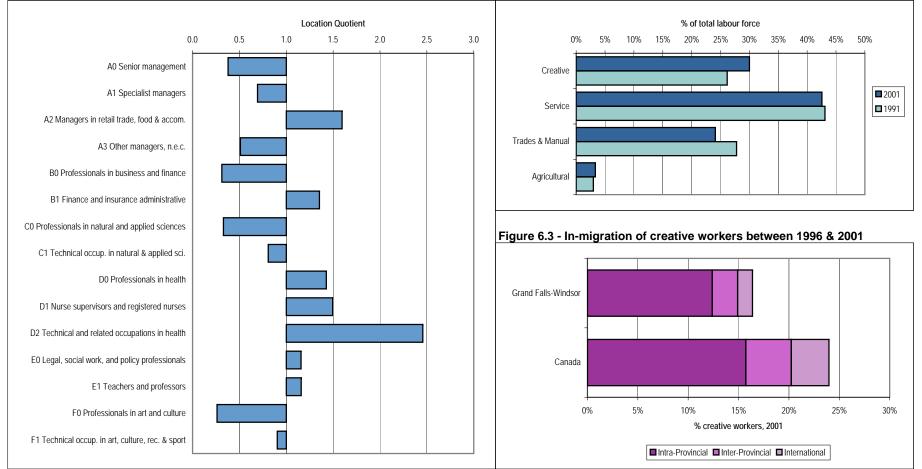
Manual

24.1%

6 - Creative Occupations

	Bohemians	% S&T Workers ⁶		
Grand Falls-Windsor	25	3.1	255	3.2%
Canada	204,305	13.1	1,003,810	6.4%

Figure 6.1 - Specialization in creative occupations



30.0% Canada 29.2% 42.7% 23.9%

Service

42.6%

Creative

Figure 6.2 - Change in share of labour force, 1991-2001

Occupational Groups⁷

Grand Falls-Windsor

7 - Industrial Structure

Grand Falls-Windsor

	# Labour force	% Labour force	% BA or higher	% Creative occups.	Average income					Loca	ition C	Quotier	nt			
All industries	8,910	100.0%	10.5%	30.0%	\$ 25,264	- 11 Agriculture, forestry, fishing and hunting	0.2	2 0	.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
11 Agr., forestry, fish. & hunt.	330	3.7%	0.0%	3.8%	\$ 18,510	21 Mining and oil and gas extraction										
21 Mining & oil/gas extraction	60	0.7%	0.0%	50.0%	\$ -	22 Utilities						Π				
22 Utilities	70	0.8%	21.4%	50.0%	\$ -	23 Construction						F				
23 Construction	545	6.1%	2.1%	2.1%	\$ 17,930	23 COnstruction										
						31-33 Manufacturing										
31-33 Manufacturing	895	10.0%	2.5%	9.3%	\$ 44,120	41 Wholesale trade										
41 Wholesale trade	425	4.8%	0.0%	20.0%	\$ 25,079	44-45 Retail trade										
44-45 Retail trade	1,445	16.2%	1.1%	28.7%	\$ 19,719											
48-49 Transport & warehousing	370	4.2%	0.0%	13.2%	\$ 25,635	48-49 Transportation and warehousing										
						51 Information and cultural industries										
51 Information & cultural ind.	185	2.1%	12.1%	24.2%	\$ -											
52 Finance and insurance	220	2.5%	7.3%	43.9%	\$ -	52 Finance and insurance										
53 Real estate/rental & leasing	60	0.7%	0.0%	18.2%	\$ -	53 Real estate and rental and leasing				1						
54 Prof., sci. & tech. services	175	2.0%	27.3%	69.7%	\$ -			_								
55 Mgmt. of companies	20	0.2%	0.0%	0.0%	\$ -	54 Prof., scientific & tech. services										
56 Admin./support, & wst. mgt.	160	1.8%	8.0%	8.0%	\$ -	56 Admin., support, & waste mgt. services										
61 Educational services	580	6.5%	69.8%	80.2%	\$ 34,668	61 Educational services						1				
62 Health care & soc. assist.	1,420	15.9%	12.4%	44.0%	\$ 26,876	62 Health care and social assistance										1
71 Arts, entertainment & rec.	75	0.8%	15.4%	53.8%	\$ -	71 Arts, entertainment and recreation										
72 Accom. & food services	590	6.6%	4.1%	16.5%	\$ 12,343	72 Accommodation and food services										
81 Other services	605	6.8%	6.9%	32.4%	\$ 17,622	81 Other services										
91 Public administration	680	7.6%	16.9%	35.8%	\$ 25,742	91 Public administration										

Figure 7.2 - Industrial specialization - Employment

8 - Clusters

Number of clusters ⁸	0
% employment in clusters ⁸	0.0%
% establishments in clusters ⁸	0.0%

Figure 8.1 - Cluster characteristics, 2001⁸

	# Labour force	Labour force LQ	% Industry LQs > 1	Cluster (yes/no)	% of total employment
Resource-based					0.0% 10.0% 20.0% 30.0% 40.0% 50.0% 60.0% 70.0% 80.0%
Agriculture	100	0.27	6.7%	NO	
Mining	100	0.77	25.0%	NO	Clustered
Oil and Gas	55	0.60	22.2%	NO	
Wood & Wood Products	740	4.04	40.0%	NO	Non-Clustered
Maritime	130	1.71	44.4%	NO	Grand Falls-Winds
Manufacturing					Basic Basic Non-Basic
Textiles & Apparel	10	0.10	8.3%	NO	
Food	225	1.01	25.0%	NO	Non-Basic
Steel	60	0.36	8.3%	NO	
Automotive	25	0.11	0.0%	NO	
Plastics & Rubber	60	0.28	14.3%	NO	
Biomedical	15	0.22	16.7%	NO	Figure 8.3 - Establishment growth by industry category, 1998-2005 ^{9,10}
ICT Manufacturing	30	0.24	11.1%	NO	Weighted compound annual growth rate
Service-based					0.0% 1.0% 2.0% 3.0% 4.0% 5.0% 6.0% 7.0% 8.0% 9.0% 10.0%
ICT Services	75	0.23	11.1%	NO	
Finance	290	0.67	20.0%	NO	Clustered
Business Services	220	0.33	12.5%	NO	
Creative & Cultural	90	0.40	18.8%	NO	Non-Clustered
Higher Education	50	0.27	12.5%	NO	Grand Falls-Windso
Other					Basic Canada
Construction	175	0.67	16.7%	NO	
Logistics	310	0.78	26.9%	NO	

Figure 8.2 - Employment by industry category, 2001⁹

More than

500 emp.

2

2,916

5 to 199 emp.

39.8%

42.5%

Less than 5

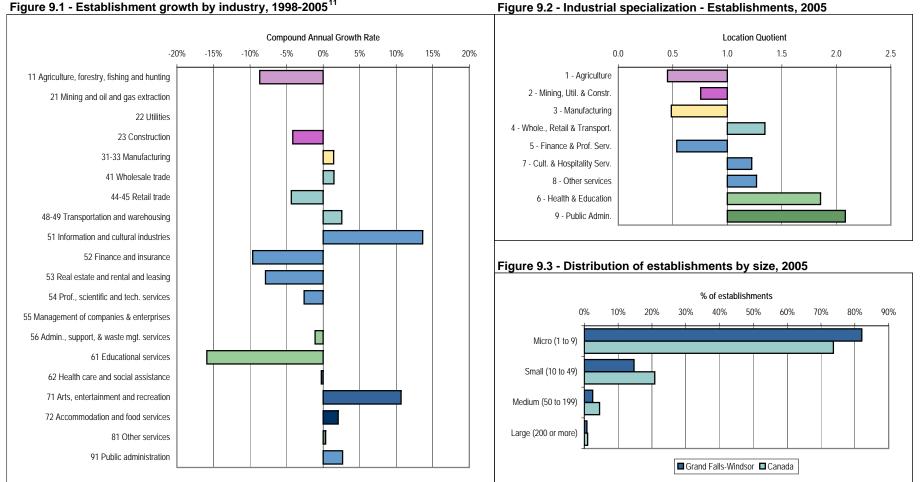
emp.

59.4%

56.5%

—	E	stablishments	5
	1998	2005	Growth ¹¹
Grand Falls-Windsor	681	640	-0.88%
Canada	1,001,517	1,048,286	0.65%

Figure 9.1 - Establishment growth by industry, 1998-2005¹¹



10 - Income

Household income ¹²	Average	ľ	Vedian	% below LICO ¹³
Grand Falls-Windsor	\$ 44,324	\$	37,391	20.9
Canada	\$ 58,360	\$	46,752	16.2

Figure 10.1 - Sources of income for population 15 and over, 2000

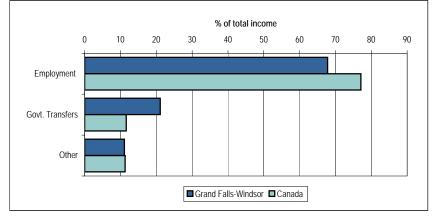
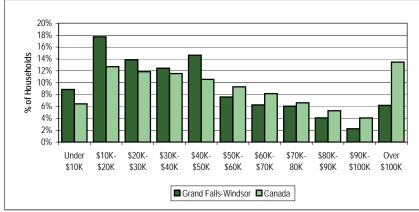
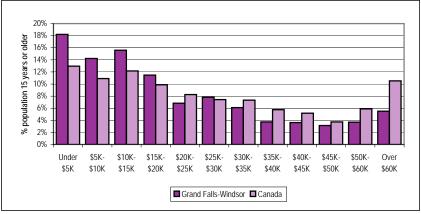


Figure 10.3 - Distribution of household income, 2000

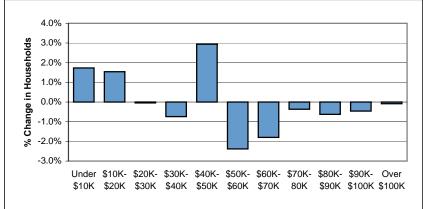


Individual income ¹²	Average total		Average emp.	
Grand Falls-Windsor	\$	22,024	\$	24,859
Canada	\$	29,769	\$	31,757

Figure 10.2 - Distribution of total income for pop. 15 and over, 2000







*Constant dollars (2000)

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 at 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: 10 Occupations unique to agriculture, excluding labourers; and 11 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 and Vinodrai 2005). 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 a weighted compound annual growth rate (CAGR). The growth rate is weighted according to the size distribution of establishments within a particular group of industries in a place.

¹¹ Growth is measured as a compound annual growth rate (CAGR).

¹² Canadian censuses were conducted in 1996 and 2001. Income data relate to the calendar year prior to the census year, i.e. 1995 and 2000 respectively.

¹³ Low income cut-offs (LICO) are established by Statistics Canada based on national family expenditure patterns on food, shelter, and clothing. LICOs reflect a consistent and well-defined methodology that identifies those who are substantially worse-off than average.

Data Sources and References

Data Sources

Statistics Canada. 2001. Census family status, age groups and sex for population in private households. Catalogue No. 95F0314XCB2001004. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Immigrant status and period of immigration and place of birth of respondent for immigrants and non-permanent residents. Catalogue No. 97F0009XCB2001002. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Components of migration (in- and out-), mother tongue, age groups and sex for migrants 5 years and over. Catalogue No. 97F0008XCB2001009. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Total, average and median years of schooling, age groups and sex for population 15 years and over, 1991 to 2001 Censuses. Catalogue No. 97F0017XCB2001008. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Highest degree, certificate or diploma, age groups and sex for population 15 years and over, 1991 to 2001 Censuses. Catalogue No. 97F0017XCB2001006. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Labour force activity, immigrant status and period of immigration, visible minority groups, age groups and sex for population 15 years and over, 1991 to 2001 Censuses. Catalogue No. 97F0012XCB2001002. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Hours worked in the reference week, immigrant status and period of immigration, age groups and sex for employed labour force, 1991 to 2001 Censuses. Catalogue No. 97F0012XCB2001005. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Class of worker, age groups and sex for labour force 15 years and over. Catalogue No. 95F0385XCB2001004. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Occupation - 1991 SOC, age groups and sex for labour force 15 years and over, 1991 to 2001 Censuses. Catalogue No. 97F0012XCB2001024. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Occupation - 2001 NOCS, class of worker and sex for labour force 15 years and over. Catalogue No. 97F0012XCB2001017. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Occupation - 2001 NOCS, selected labour force, demographic, cultural, educational and income characteristics and sex for population 15 years and over. Catalogue No. 97F0012XCB2001050. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Industry - 1997 NAICS, selected labour force, demographic, cultural, educational and income characteristics and sex for population 15 years and over. Catalogue No. 97F0012XCB2001046. Ottawa, ON: Statistics Canada.

Statistics Canada. 2005. Canadian Business Patterns, 1998-2005. Catalogue No. 61F0040XCB. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Household income groups in constant dollars and household type for private households, 1995 and 2000. Catalogue No. 97F0020XCB2001005. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Profile of income of individuals, families and households, social and economic characteristics of individuals, families and households, housing costs, and religion for CMAs and CAs. Catalogue No. 95F0492XCB2001004. Ottawa, ON: Statistics Canada.

Statistics Canada. 2001. Profile of income of individuals, families and households, social and economic characteristics of individuals, families and households, housing costs, and religion. Catalogue No. 95F0492XCB2001007. 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]

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. and Vinodrai, T. 2005. Clustering matters: Evidence from the ISRN's cluster indicators project. Presented at the Ontario Network on the Regional Innovation System (ONRIS) – Ministry of Research and Innovation (MRI) / Ministry of Economic Development and Trade (MEDT) Joint Fall Workshop, Toronto, Ontario, November 4, 2005.

For further information, please contact:

Greg Spencer: (416) 946-3054 or <u>greg.spencer@utoronto.ca</u> Tara Vinodrai: (416) 964-8921 or <u>tara.vinodrai@utoronto.ca</u> Last Updated: April 19, 2006