

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

Winnipeg

Gregory M. Spencer^a and Tara Vinodrai^b

^aPost Doctoral Research Fellow
Program on Globalization and Regional Innovation Systems (PROGRIS)
Munk Centre for International Studies
University of Toronto

^bAssistant Professor
Department of Geography and Environmental Management
and Centre for Environment and Business
University of Waterloo

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Summary and Highlights

Key Indicators	Winnipeg	Canada
Population, 2006	694,650	31,612,890
Population Change, 2001-2006	2.7%	5.4%
% Foreign Born	17.7%	19.8%
% BA Degree or higher	19.0%	18.1%
# Employed	364,945	15,958,195
Employment Growth 1996-2006	11.5%	19.8%
Employment Rate	65.1%	62.4%
Unemployment Rate	5.0%	6.6%
% 'Creative' occupations	33.7%	33.2%
% Science & Tech. Occupations	6.1%	6.6%
'Bohemians' per 1,000 Labour Force	13.7	14.2
Number of Industrial Clusters	2	255
% Employment in Clusters	1.8%	22.1%
Average FT Employment Income	\$ 46,352	\$ 51,221
% Change Average Income 2000-2005	5.4%	5.5%

1 - Demographics Winnipeg

Population	2001	2006	% Change 2001-2006
Winnipeg	676,590	694,650	2.7%
Canada	30,007,085	31,612,890	5.4%

Age Groups	Under 15	15 to 64	65 and over	% 15 to 64
Winnipeg	184,690	377,080	95,925	57.3%
Canada	9,800,715	17,476,925	4,335,250	55.3%

Figure 1.1 - Population by age and gender, 2006

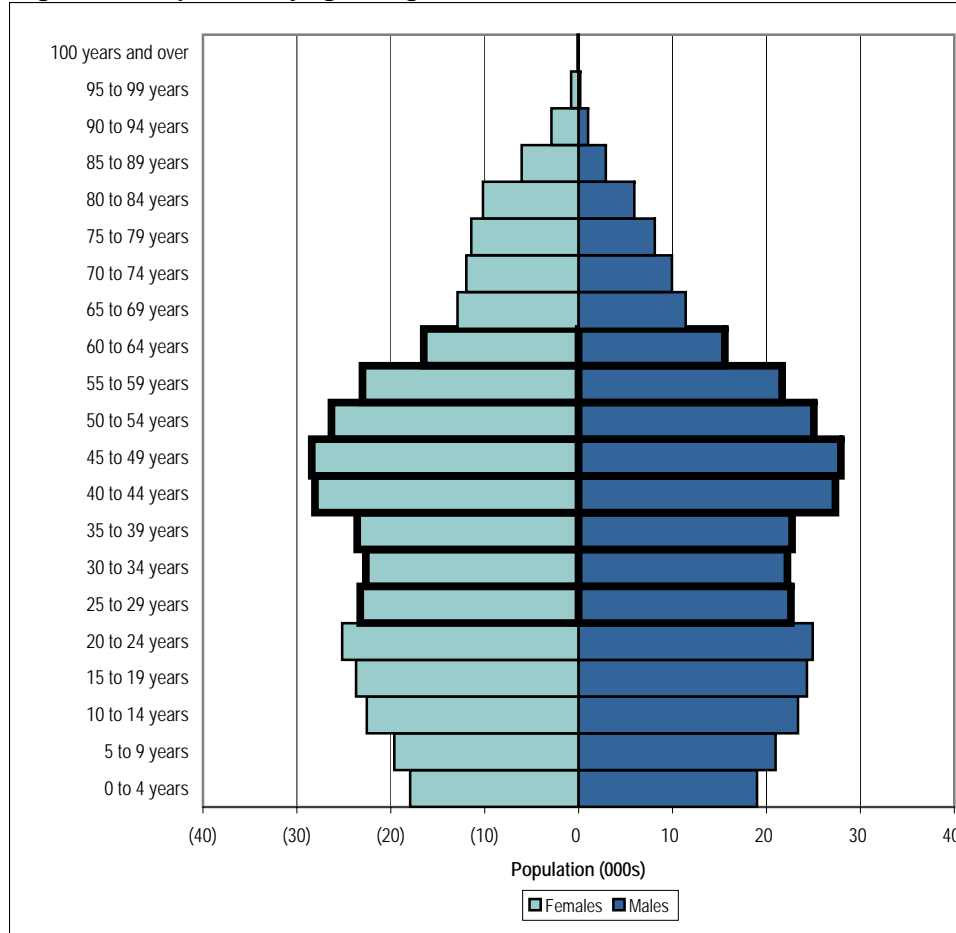


Figure 1.2 - Population by age group, 2001-2006

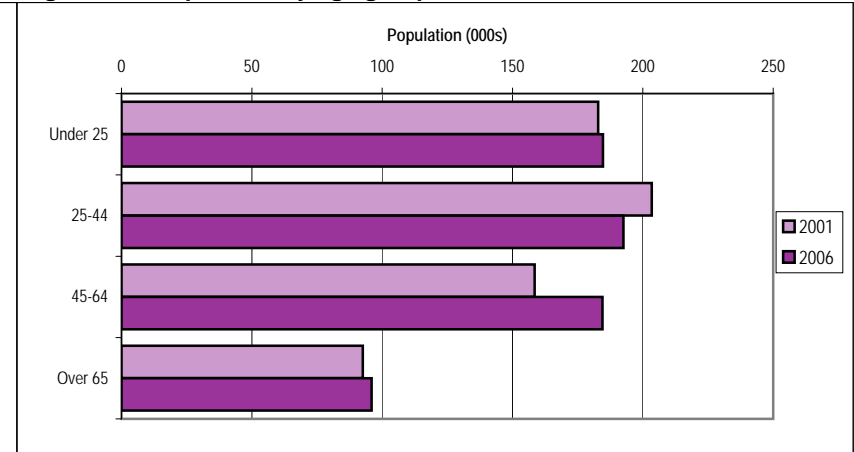
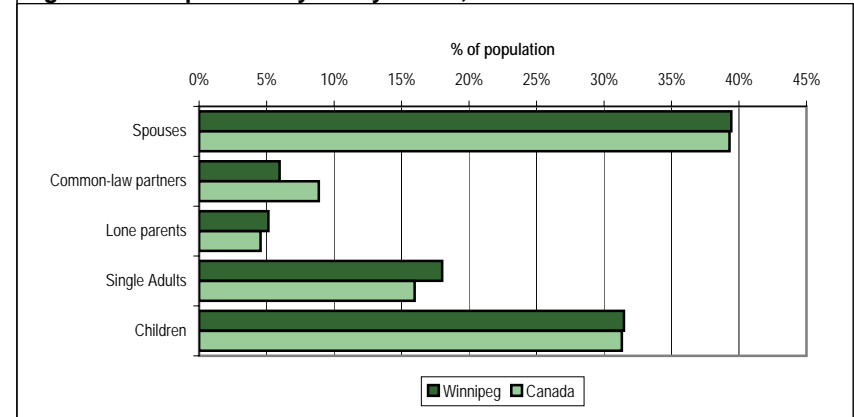


Figure 1.3 - Population by family status, 2006



2 - Migration & Population Change

Winnipeg

Domestic Migration	Intra-provincial	Inter-provincial	Total
In-flows, 2001-2006	19,210	22,780	41,990
Out-flows, 2001-2006	15,760	37,245	53,005
Net, 2001-2006	3,450	(14,465)	(11,015)

	% Foreign born	Migrated post-1991	Migrated pre-1991
Winnipeg	17.7%	6.7%	11.0%
Canada	19.8%	8.9%	10.9%

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

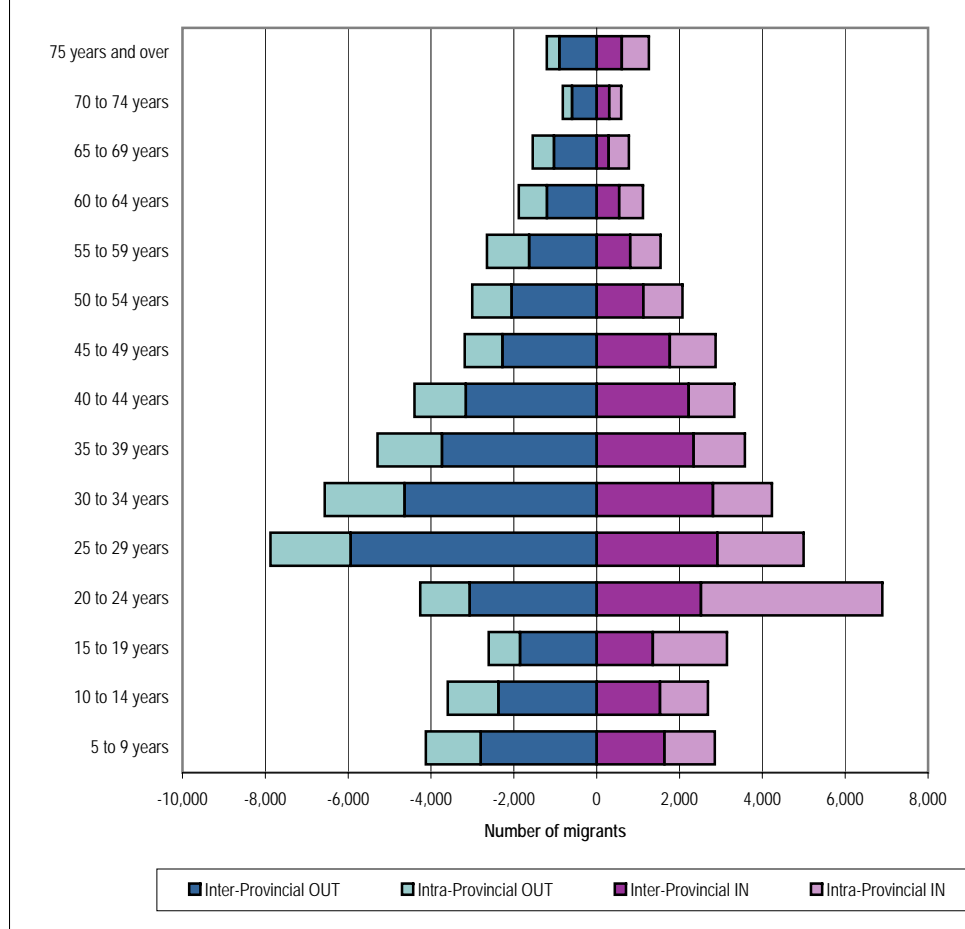


Figure 2.2 - Population by place of birth, 2006

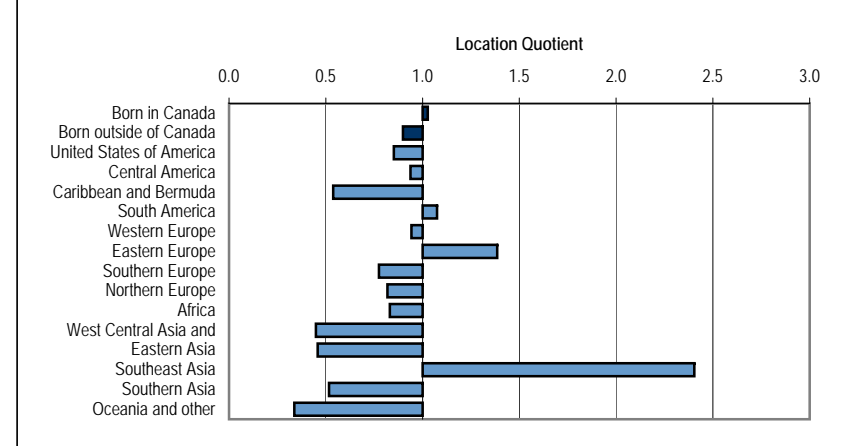
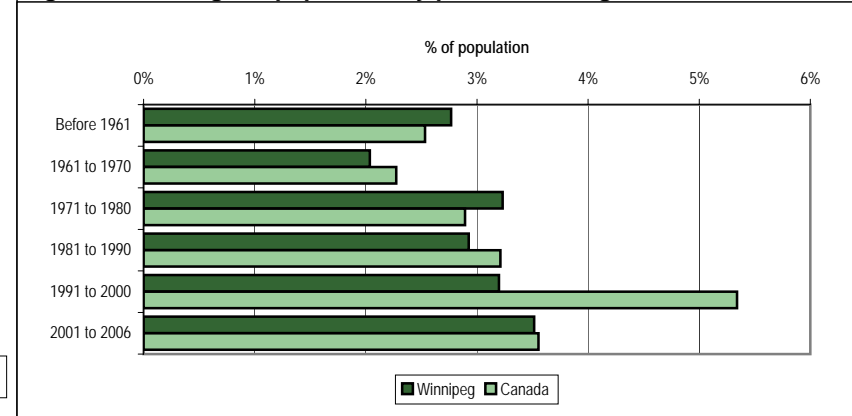


Figure 2.3 - Immigrant population by period of immigration, 2006



3 - Education Winnipeg

	% College degree or higher ¹	% BA degree or higher ¹	% MA degree or higher ¹	PhDs per 1,000 ¹
Winnipeg	39.2%	19.0%	4.2%	8.0
Canada	39.8%	18.1%	4.6%	6.9

	% BA degree or higher	
	2001	2006
Winnipeg	16.5%	19.0%
Canada	15.4%	18.1%

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

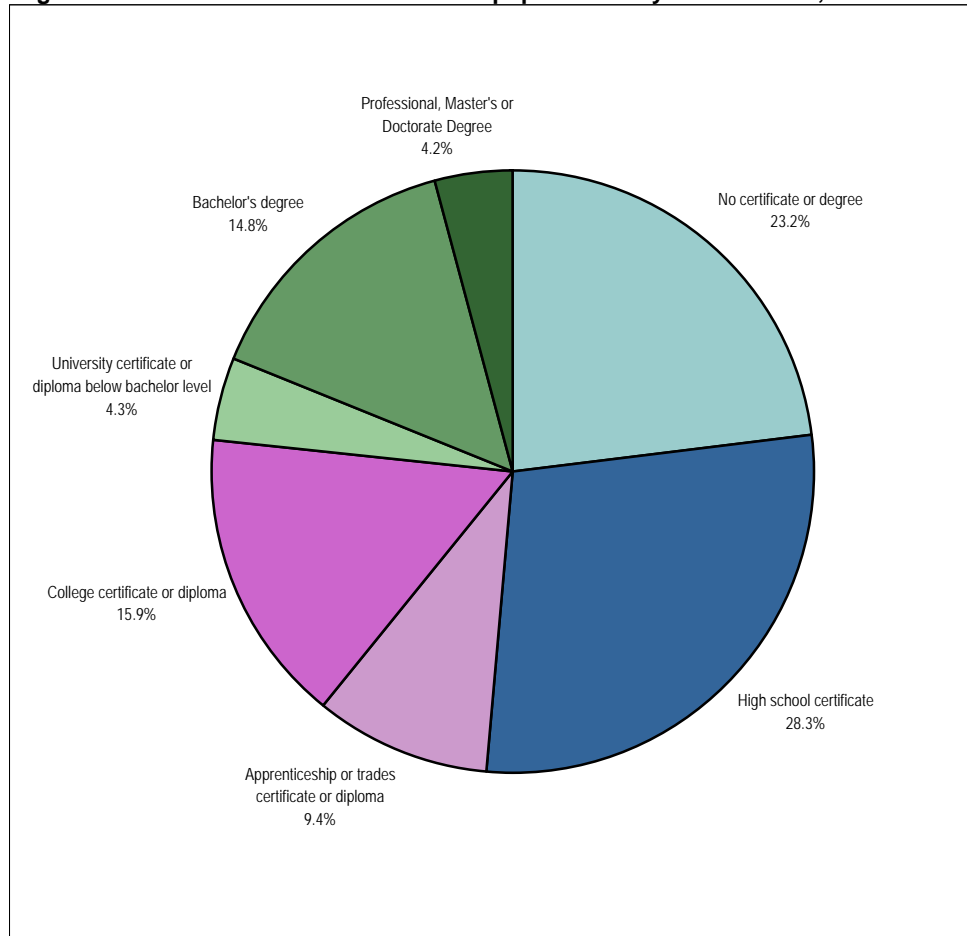


Figure 3.2 - Location of study for highest qualification, 2006

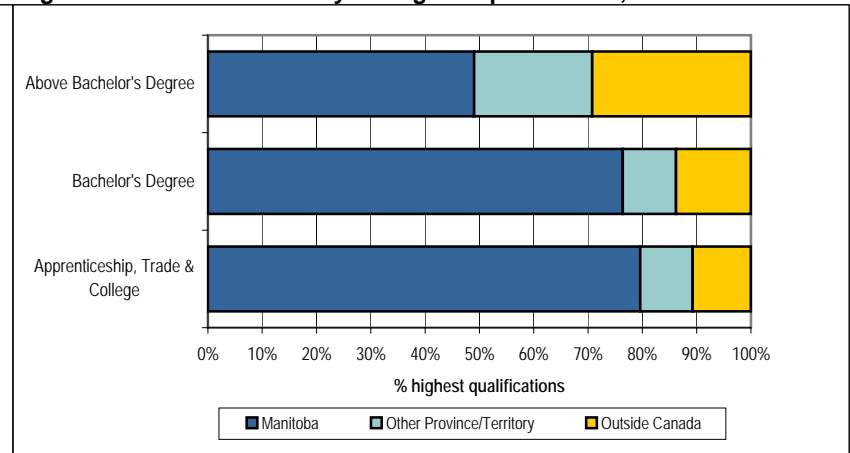
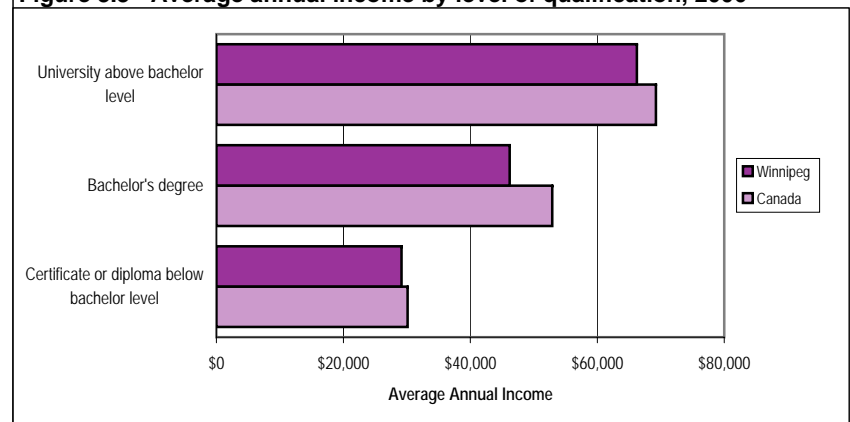


Figure 3.3 - Average annual income by level of qualification, 2006



4 - Employment Winnipeg

	Employment Rate		
	1996	2001	2006
Winnipeg	61.9%	64.9%	65.1%
Canada	58.9%	61.5%	62.4%

	Unemployment Rate		
	1996	2001	2006
Winnipeg	7.9%	5.5%	5.0%
Canada	10.1%	7.4%	6.6%

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

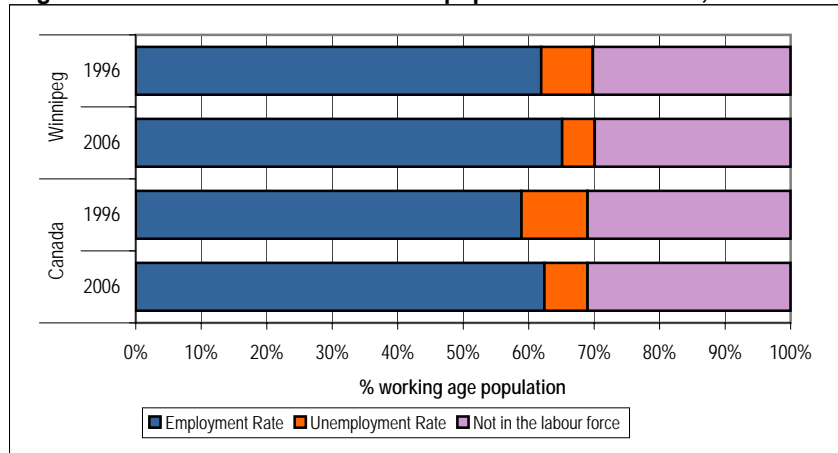


Figure 4.2 - Employment Rate by Educational Attainment, 2006

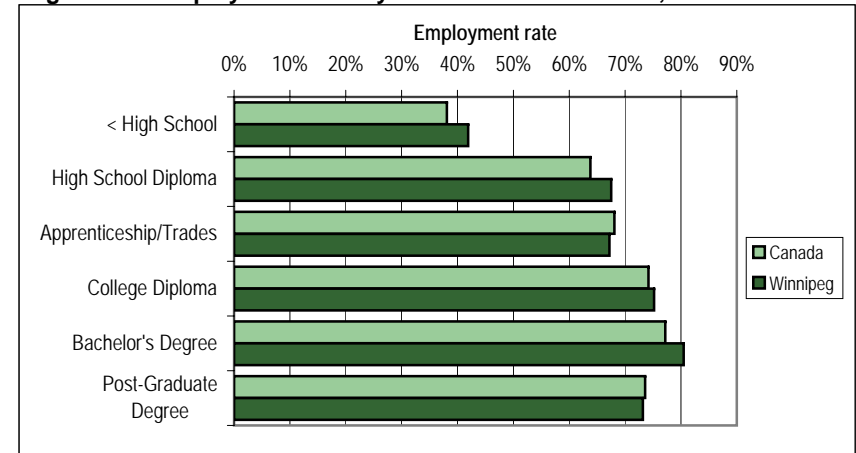


Figure 4.3 - Employment rate² by age, 2006

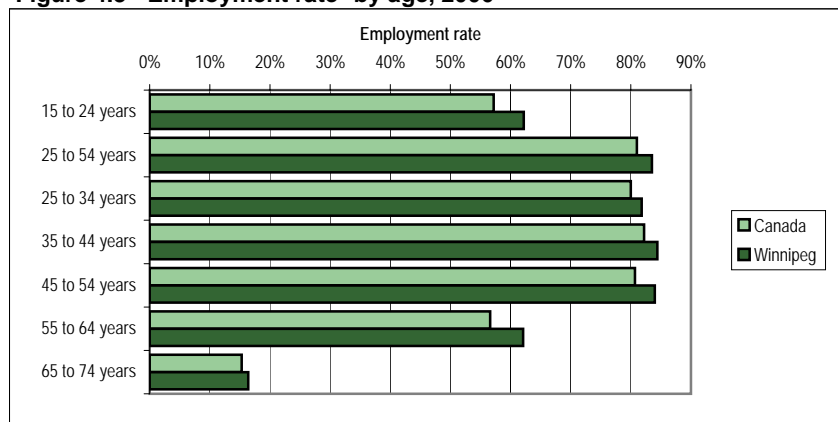
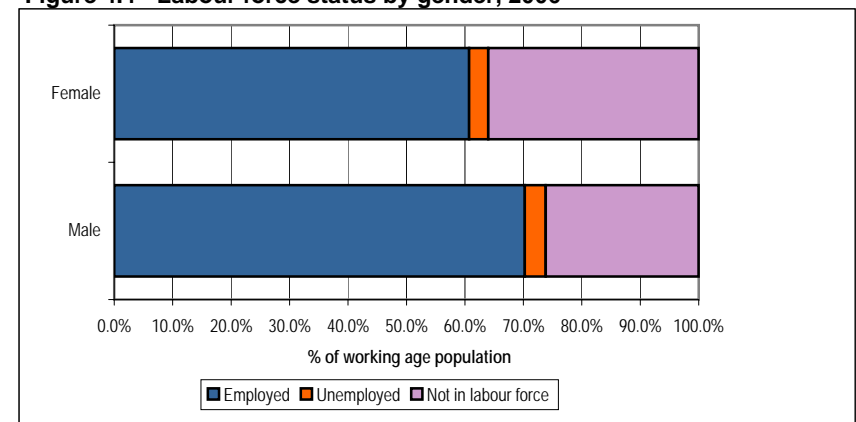


Figure 4.4 - Labour force status by gender, 2006



5 - Occupational Structure Winnipeg

	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
Winnipeg	29.0%	30.0%	29.3%	20.7%	22.1%	23.9%	50.3%	47.9%	46.7%
Canada	27.8%	28.2%	27.6%	19.8%	21.3%	22.6%	52.4%	50.5%	49.8%

Figure 5.1 - Occupational structure, 2006

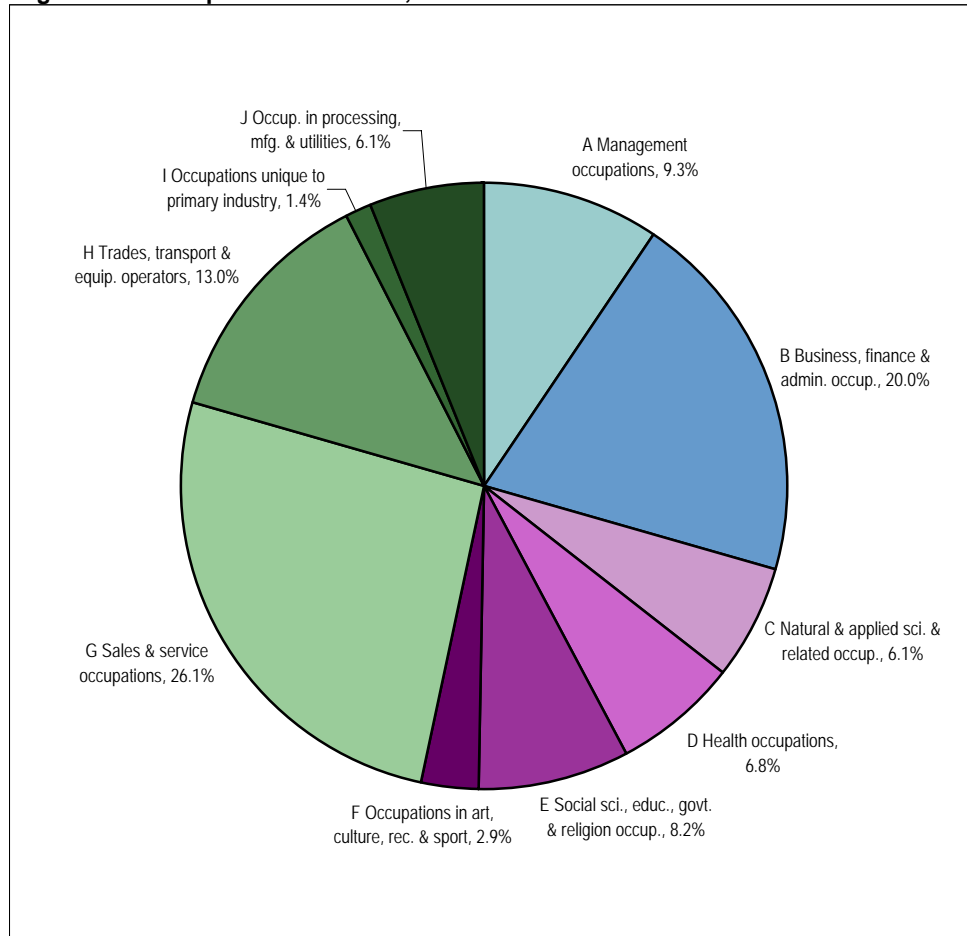
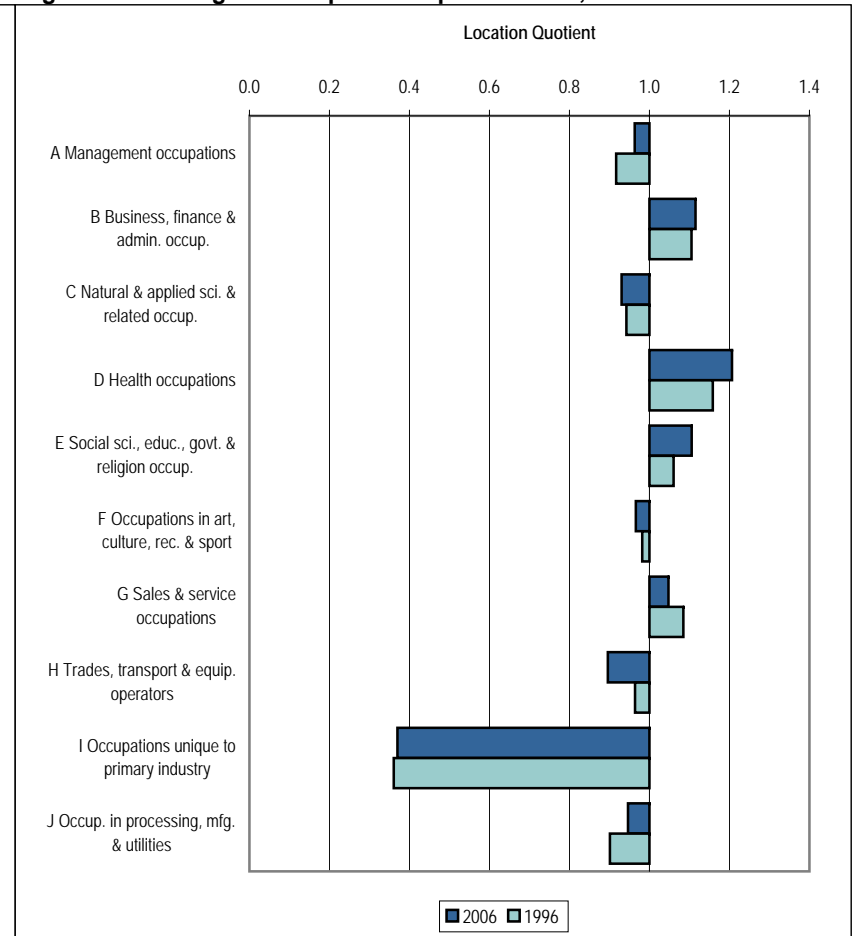


Figure 5.2 - Change in occupational specialization, 1996-2006



6 - Creative Occupations

Winnipeg

	Bohemians	Bohemians per 1000 ⁵	S&T Workers	% S&T Workers ⁶
Winnipeg	5,215	13.7	23,275	6.1%
Canada	240,170	14.2	1,108,050	6.6%

Occupational Groups ⁷	Creative	Service	Trades & Manual	Agricultural & Resources
Winnipeg	33.7%	45.7%	19.7%	0.8%
Canada	33.2%	41.9%	21.9%	2.9%

Figure 6.1 - Specialization in creative occupations

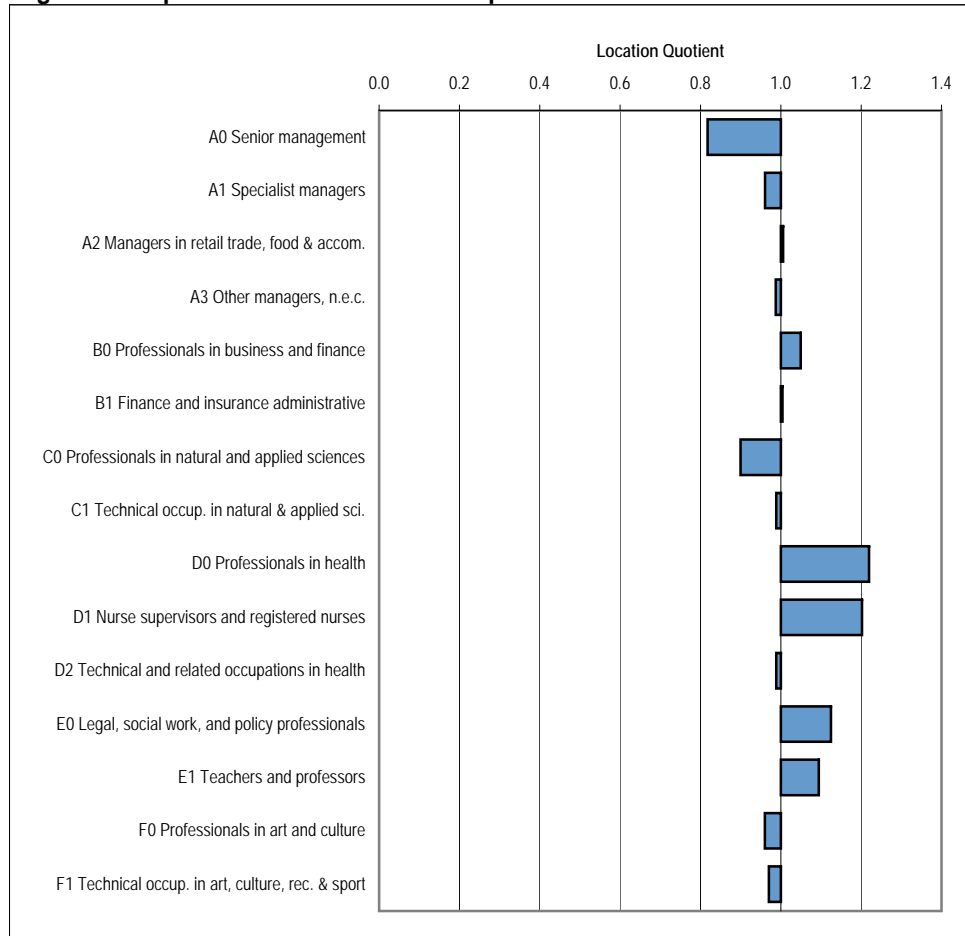


Figure 6.2 - Change in share of labour force, 1996-2006

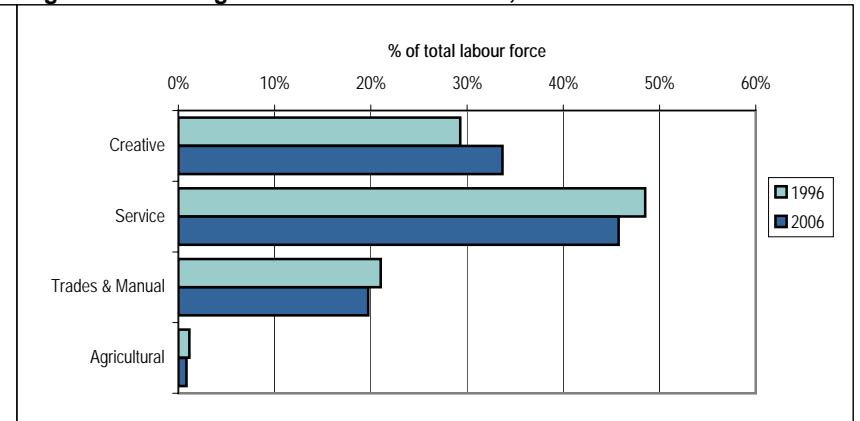
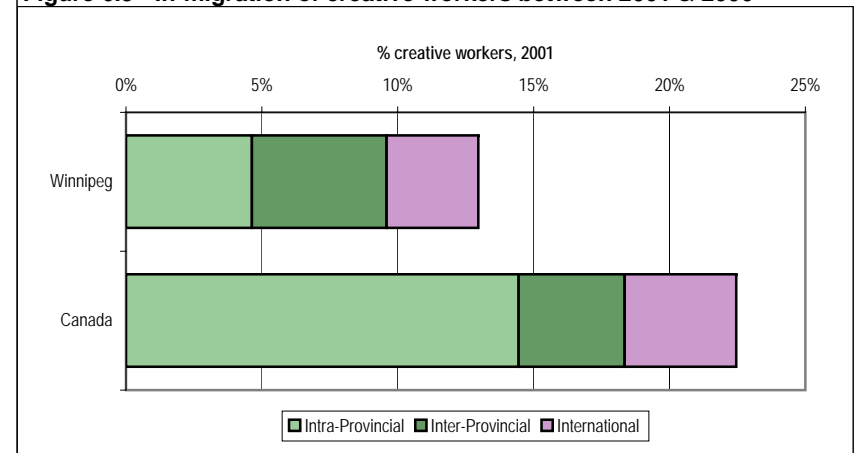


Figure 6.3 - In-migration of creative workers between 2001 & 2006

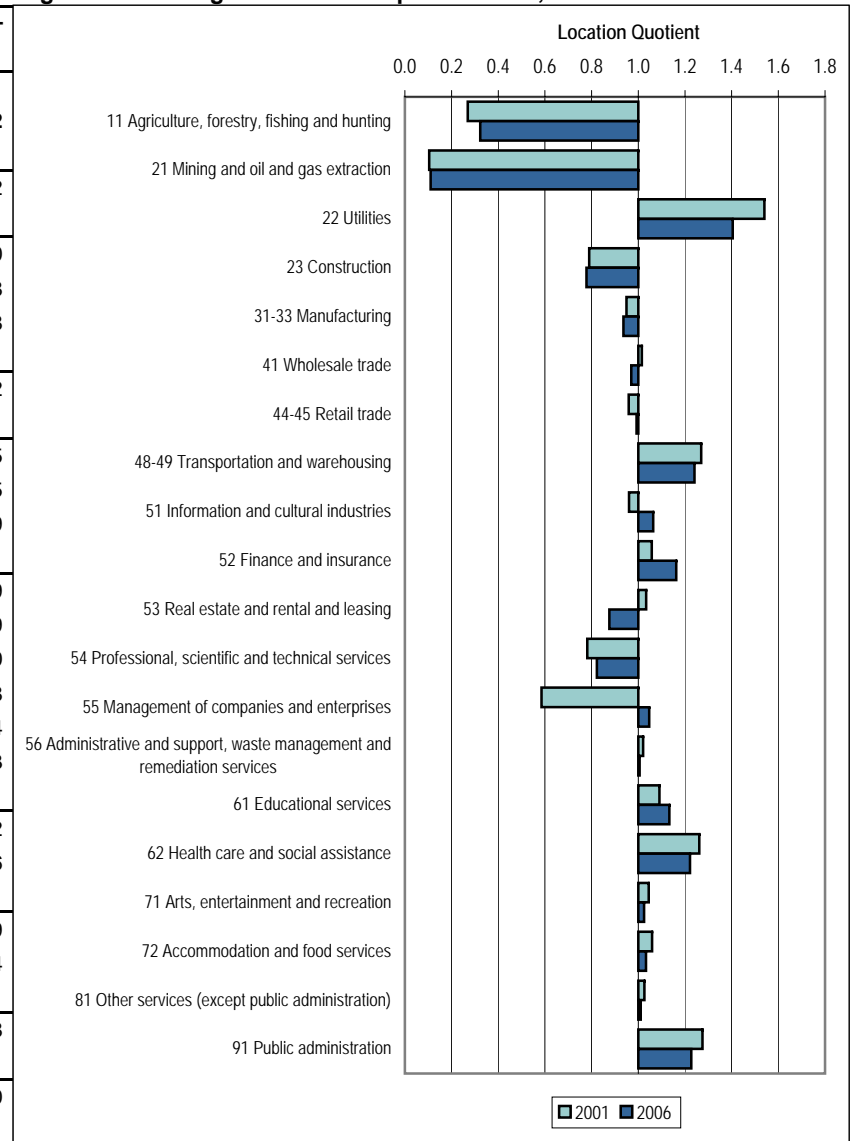


7 - Industrial Structure Winnipeg

Figure 7.1 - Industry characteristics

	# Labour force	% Labour force	% Change 2001-2006	% BA or higher	Average FT income
All industries	380,620	100.0%	4.3%	22.8%	\$ 46,352
11 Agr., forestry, fish. & hunt.	3,815	1.0%	6.6%	14.4%	\$ 40,492
21 Mining & oil/gas extraction	595	0.2%	43.4%	12.5%	\$ 49,210
22 Utilities	4,215	1.1%	-1.6%	24.6%	\$ 61,528
23 Construction	18,780	4.9%	15.5%	6.2%	\$ 42,008
31-33 Manufacturing	42,410	11.1%	-12.3%	12.5%	\$ 43,012
41 Wholesale trade	16,185	4.3%	-0.8%	15.0%	\$ 50,595
44-45 Retail trade	42,960	11.3%	9.0%	12.4%	\$ 35,885
48-49 Transport & warehousing	22,970	6.0%	-0.2%	8.4%	\$ 48,499
51 Information & cultural ind.	10,025	2.6%	6.8%	25.8%	\$ 53,159
52 Finance and insurance	18,090	4.8%	14.9%	27.0%	\$ 54,429
53 Real estate/rental & leasing	6,000	1.6%	-4.5%	18.5%	\$ 59,270
54 Prof., sci. & tech. services	20,835	5.5%	15.9%	42.9%	\$ 57,758
55 Mgmt. of companies	485	0.1%	131.0%	40.2%	\$ 77,284
56 Admin./support, & wst. mgt.	16,410	4.3%	13.3%	11.0%	\$ 30,733
61 Educational services	29,430	7.7%	12.9%	62.0%	\$ 53,282
62 Health care & soc. assist.	47,310	12.4%	6.0%	30.9%	\$ 47,476
71 Arts, entertainment & rec.	8,010	2.1%	7.7%	23.5%	\$ 35,569
72 Accom. & food services	26,280	6.9%	1.3%	7.3%	\$ 23,704
81 Other services	18,700	4.9%	4.0%	17.2%	\$ 34,208
91 Public administration	27,105	7.1%	0.4%	34.4%	\$ 57,230

Figure 7.2 - Change in industrial specialization, 2001-2006



8 - Clusters Winnipeg

Number of clusters⁸ 2
 % employment in clusters⁸ 1.8%

Figure 8.1 - Cluster characteristics, 2006⁸

	# Labour force	Labour force LQ	% Industry LQs > 1	% Growth 2001-2006	Cluster (yes/no)
<i>Resource-based</i>					
Agriculture	13,485	0.85	53.3%	1.4%	NO
Mining	7,910	1.16	37.5%	-2.4%	NO
Oil and Gas	1,055	0.19	11.1%	-25.4%	NO
Wood & Wood Products	2,895	0.40	20.0%	-8.8%	NO
Maritime	935	0.28	0.0%	6.3%	NO
<i>Manufacturing</i>					
Textiles & Apparel	3,420	1.12	50.0%	-42.1%	YES
Food	9,025	0.85	25.0%	15.4%	NO
Steel	7,080	0.96	33.3%	4.0%	NO
Automotive	7,745	0.77	46.2%	2.4%	NO
Plastics & Rubber	9,005	1.00	28.6%	-3.3%	NO
Biomedical	3,465	1.01	66.7%	1.9%	YES
ICT Manufacturing	3,315	0.72	33.3%	-5.7%	NO
<i>Service-based</i>					
ICT Services	18,425	1.02	30.0%	6.1%	NO
Finance	26,265	1.11	43.8%	13.6%	NO
Business Services	34,935	0.95	29.4%	11.1%	NO
Creative & Cultural	13,515	0.93	29.4%	13.7%	NO
Higher Education	13,245	1.06	22.2%	14.5%	NO
<i>Other</i>					
Construction	23,565	0.75	0.0%	16.1%	NO
Logistics	18,555	0.99	53.8%	-0.7%	NO

Figure 8.2 - Employment by industry category, 2006⁹

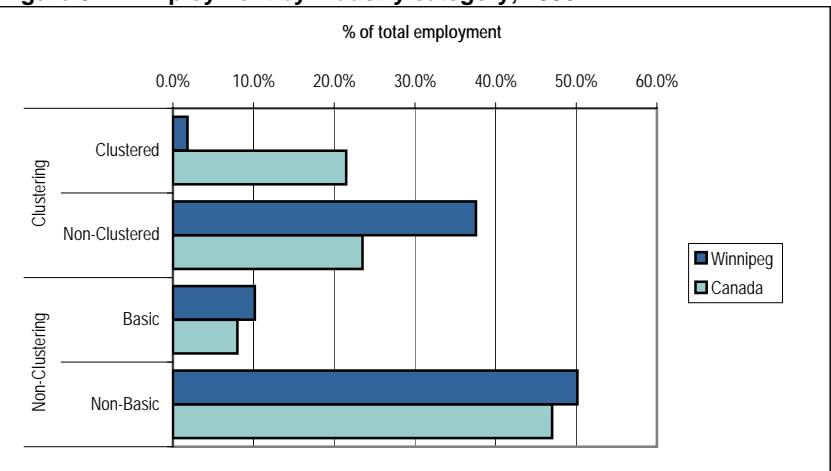
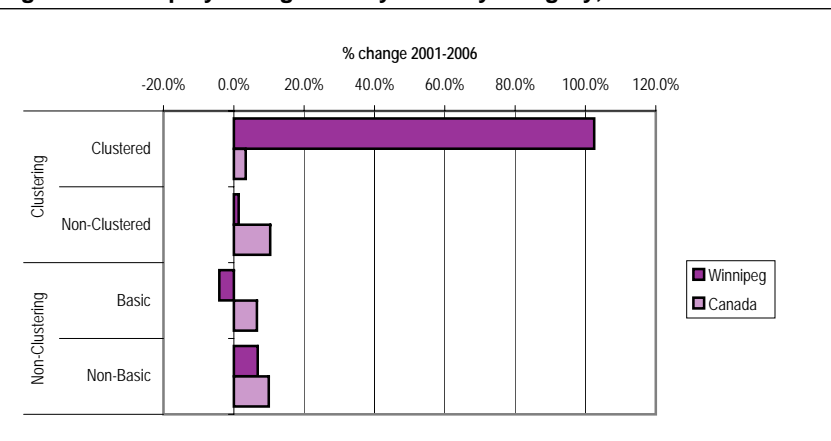


Figure 8.3 - Employment growth by industry category, 2001-2006^{9,10}



9 - Establishments Winnipeg

	% of establishments by number of employees							
	1-4	5-9	10-19	20-49	50-99	100-199	200-299	500+
Winnipeg	47.2%	21.4%	14.2%	10.3%	3.8%	1.7%	0.9%	0.4%
Canada	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

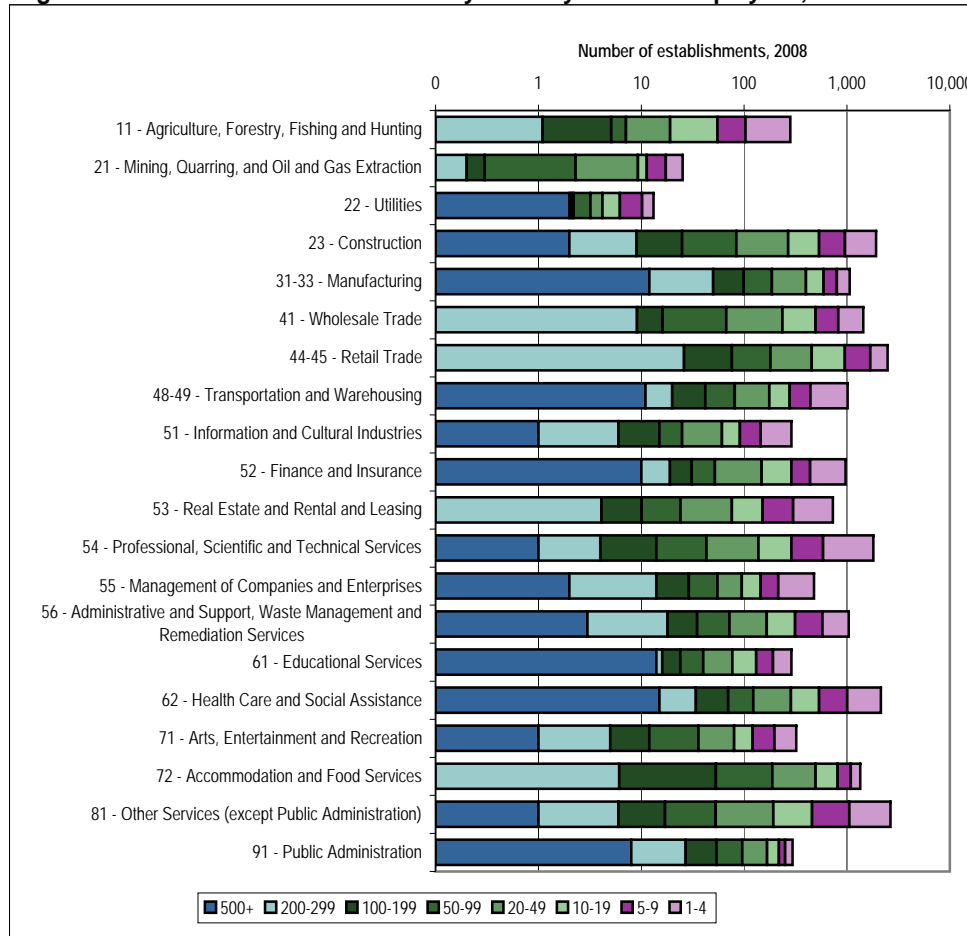
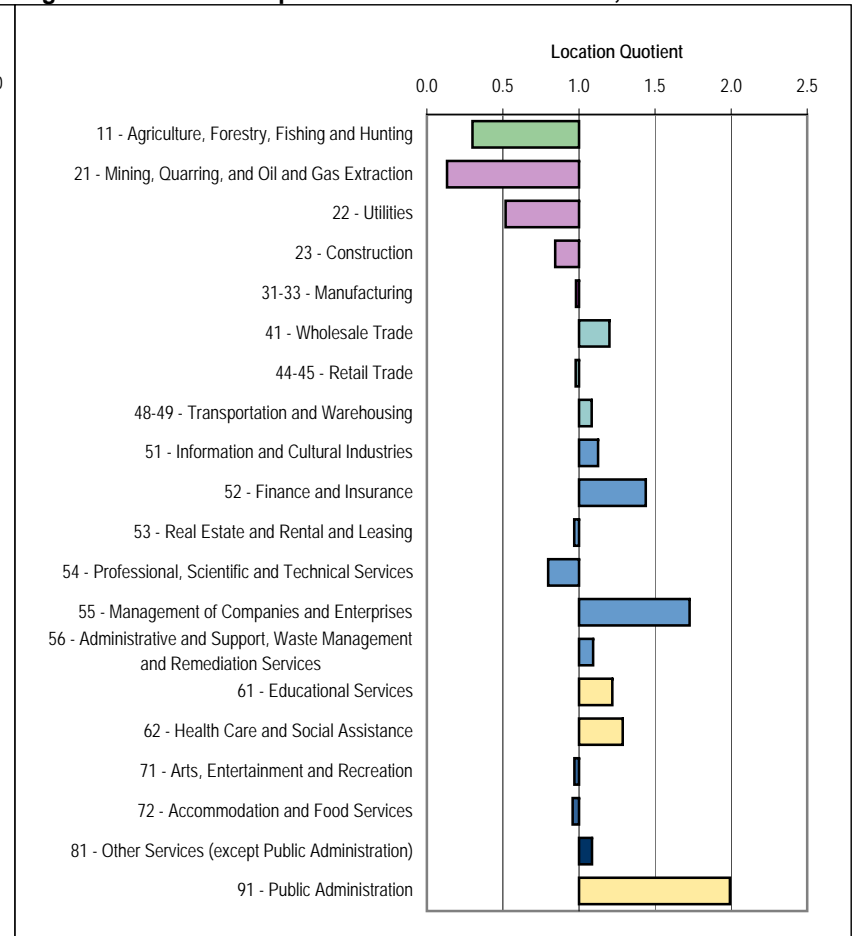


Figure 9.2 - Industrial specialization - Establishments, 2008



10 - Income Winnipeg

Full Time Employment Income, 2005			
	Average	Median	
Winnipeg	\$ 46,352	\$ 38,773	
Canada	\$ 51,221	\$ 41,401	

% Change in FT Emp. Income 2000-2005 ¹¹		
	Average	Median
Winnipeg	5.4%	3.8%
Canada	5.5%	2.4%

*Constant dollars (2005)

Figure 10.1 - Distribution of FT Employment Income

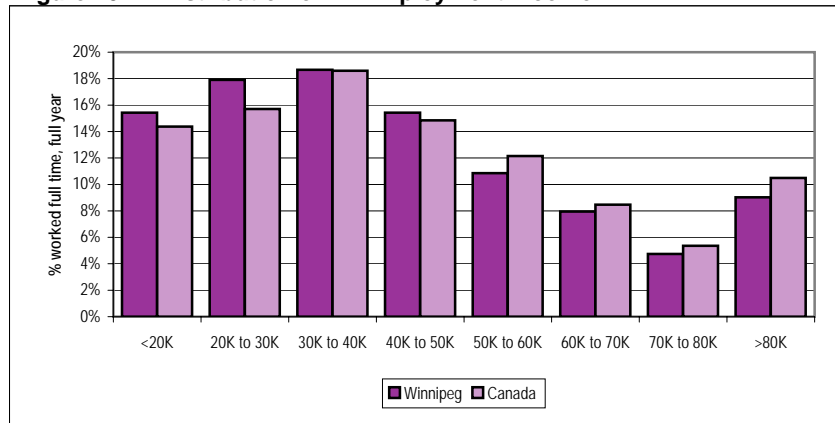
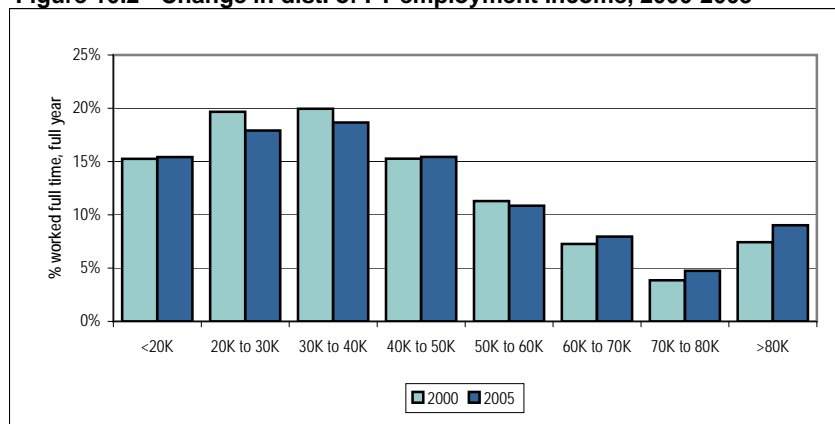
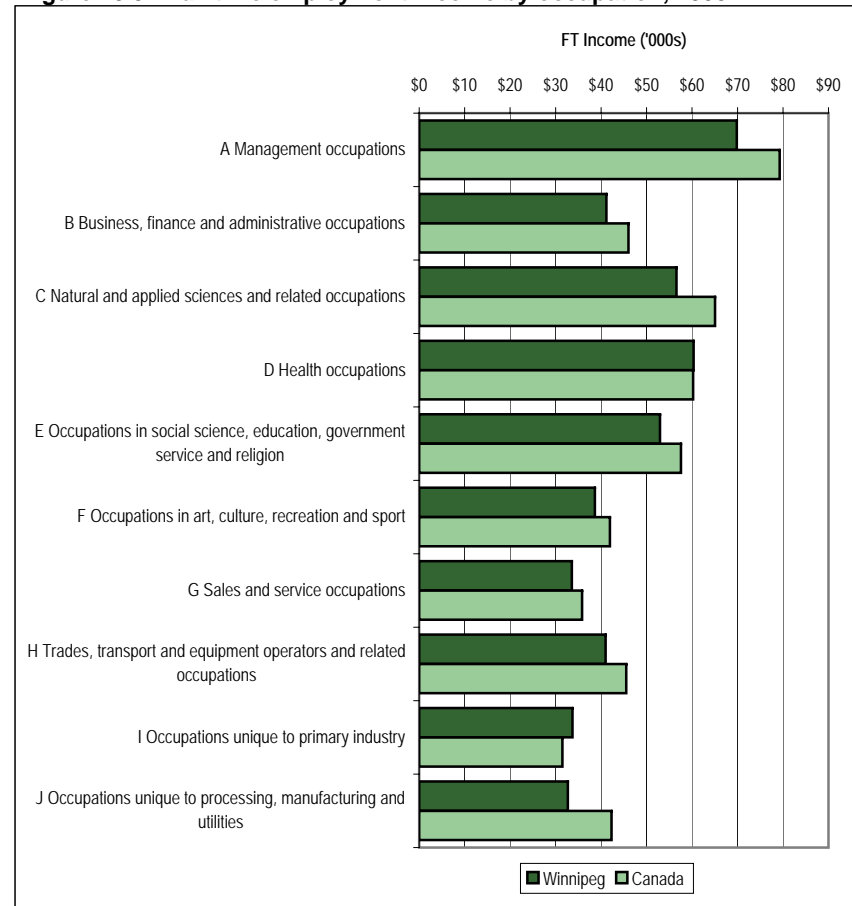


Figure 10.2 - Change in dist. of FT employment income, 2000-2005



*Constant dollars (2005)

Figure 10.3 - Full time employment income by occupation, 2005



Notes

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 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.

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.

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For further information, please contact:

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

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

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