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EMPLOYMENT STRUCTURE IN RURAL AND SMALL TOWN CANADA: THE PRODUCER SERVICES SECTOR

Roland Beshiri, Statistics Canada

Highlights

- ♦ The producer services sector is a growing sector. It has grown in each period since 1981.
- ♦ Predominantly rural regions are participating in this growth. In fact, in the 1991 to 1996 period, employment in the producer services sector grew faster in each type of rural region.
- ♦ However, rural regions still have a very low share of their employment in the producer services sectors. The good news is that rural areas are not losing their relative employment intensity in producer services. The bad news is that rural areas are not gaining relative to larger urban centres.

Introduction

The rural employment picture is changing quickly in Canada. One sector being monitored closely by rural development analysts is the "producer services" sector, especially the component that provides services to other businesses. This is a growing sector and the issue for rural analysts is whether rural workers can participate in these growth opportunities.

The purpose of this bulletin is to provide an overview of the producer services sector in rural Canada¹.

This bulletin is one in a series that includes an "overview" of rural employment in different sectors.



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Note of appreciation

Canada owes the success of its statistical system to a long-standing partnership between Statistics Canada, the citizens of Canada, its businesses, governments and other institutions. Accurate and timely statistical information could not be produced without their continued cooperation and goodwill.

Definitions and data sources

Two data sources using two definitions of "rural" have been used in this bulletin:

- Census data for each of 1981, 1986, 1991 and 1996 have been tabulated within constant 1996 census division boundaries for "predominantly rural regions", as defined by the OECD (See Box 1 for the definition). The advantage of this tabulation is that we obtain an extended time-series back to 1981.
- Statistics Canada's Labour Force Survey has been tabulated to provide annual data from 1987 to 1998 for rural and small town (RST) areas (see Box 2 for the definition). The advantage of this time-series is that it can be updated on an annual basis.

Box 1

Definition of "Predominantly Rural Regions"

The Organisation for Economic Co-operation and Development (OECD, 1994) has defined a "predominantly rural region" as having more than 50 percent of the population living in rural communities where a "rural community" has a population density less than 150 persons per square kilometre. In Canada, the census division has been used to represent "regions" and census consolidated sub-divisions have been used to represent "communities".

"Intermediate regions" have 15 to 49 percent of their population living in a "rural community". "Predominantly urban regions" have less than 15 percent of their population living in a "rural community".

"Predominantly rural regions" are classified as metroadjacent, non-metro-adjacent and the north, following Ehrensaft and Beeman (1992).

Data are tabulated for the 1981 to 1996 period within constant 1996 boundaries.

Box 2

Definition of "Rural and Small Town" (RST) Canada

Rural and Small Town (RST) refers to the population living outside the commuting zones of larger urban centres — specifically, outside Census Metropolitan Areas (CMAs) and Census Agglomerations (CAs). RST areas have a population of 1 - 9,999 where less than 50 percent of the employed individuals commute to a CMA/CA and less than 25 percent commute from a CMA/CA.

A CMA has an urban core of 100,000 or over and includes all neighbouring municipalities where 50 percent or more of the labour force commutes into the urban core or more than 25 percent commute from a CMA/CA. A CA is an urban core of 10,000 to 99,999 and abides by the same commuting rule as CMAs.

Data are tabulated within constant boundaries for 1976 to 1984, for 1985 to 1994, and for 1995 to date.

Box 3

Definition of producer service sector used in this bulletin

Producer services*: FIRE: finance (banking, consumer and business), insurance and real

estate.

Business services: e.g., law, accounting, computer services and

advertising.

Incidental services to:

Primary: agriculture (e.g., veterinarian and crop dusting), fishing (e.g., net and gear repair), logging and forestry (e.g., nursery stock, reforestation) and mineral and oil extraction (e.g., contract drilling). **Construction**: (e.g., project management and land development).

*Note: This definition differs from the usual definition as we have moved "services incidental to primary and construction industries" to the producer services sector.

Box 4

Location Quotient

A location quotient (LQ) is an index of specialisation or intensity. It compares the employment concentration of a given industry or sector in a given "location" (i.e. rural and small town areas) to that industry or sector's employment concentration in the spatial system as a whole (i.e. province or country)*. By "employment concentration", we mean "percent of the workforce employed in a given sector". As a measure of specialisation or intensity the LO can be used to ascertain the export capacity of the local economy or the degree of self-sufficiency of a local economy with respect to a particular industry. Therefore, a "location" with the same share of employment as we see at the national level means that the industrial concentration is the same and the LQ value is 100. An LQ below 100 indicates a lower relative employment concentration in the given industry within RST areas. Thus, RST areas are not specialised in this industrial sector and there may be a gap in the RST economy in the sense that RST areas are importing goods or services produced by this sector. An LQ above 100 indicates a higher employment concentration in the RST compared to the overall economy. Thus, RST areas are specialised in this industrial sector which indicates that this is an export activity from RST areas. The difference from 100 is used to define the degree of specialisation or concentration. The difference from 100 can also be used to indicate the degree to which the given sector is exporting from this area or whether RST areas are importing these goods or services.

A change in the LQ of an industry should be carefully interpreted as a change can be due to a number of factors. For example, an increasing share of employment in an RST industrial sector could mean that the area is increasing its employment in the industry but it could also mean that the rest of the country, in the comparison, is actually decreasing its employment in the same industry – or employment is declining in another RST industry. That is, if the employment in manufacturing for a whole country is decreasing but RST manufacturing employment is unchanged, the intensity of RST employment in manufacturing will increase (i.e. the LQ will increase) even though the actual number of individuals employed in manufacturing in RST areas may not have increased. In any case, an increasing LQ for an RST sector means that this sector is increasing its share in RST areas relative to the share this sector holds in the total economy. From this point of view, an increasing LQ suggests that RST areas are relatively competitive in the sense of increasing their market share (i.e. competitive in relation to larger urban centres).

^{*} To calculate the location quotient for primary employment in RST areas, the calculation would =

^{{ [(}number of RST individuals employed in the primary sector) / (number of RST individuals employed in all sectors)] divided by [(total number of individuals employed in the primary sector) / (total number of individuals employed in all sectors)] } times 100.

Producer service sectors in predominantly rural regions

There are many different ways of portraying the structure of employment by industrial sector. If all service-providing sectors are combined, then we find more employment in "services" than in goods-producing sectors. At the Canada level, as early as 1951, total employment in service-providing sectors represented almost half of all workers. By 1987, service-providing sectors employed 62 percent of Canada's workforce and by 1999, service-providing sectors employed a total of 10.9 million workers or 75 percent of the national employment. Within RST areas, jobs in the service-providing sectors represent 63 percent of all the RST jobs in 1999.

In this bulletin, we focus on one set of service-providing sectors – the producer service sectors (For definitions, see Box 3).

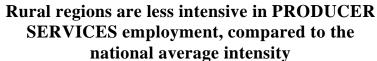
Among the various sectors of employment, producer services are not a large sector. However, this is a growing sector, in part because it encompasses many jobs in the private sector with computer applications. Anecdotally, there are stories of consultants, accountants, writers, computer programmers, etc. who are providing their services to their clients using the Internet from a rural base. Thus, these individuals are "exporting" their services to clients outside their rural area. The issue for rural analysts is to see if there is an increasing number of individuals with these jobs living in rural areas.

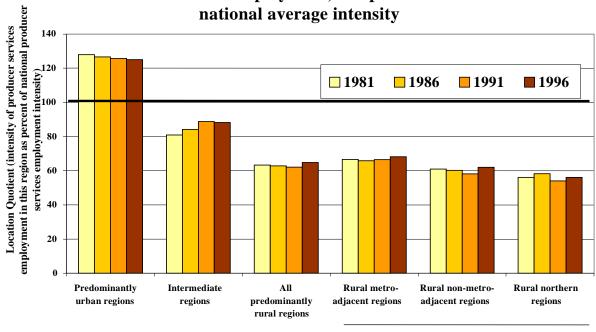
At present, these jobs still tend to be head-office jobs. They are concentrated in predominantly urban regions – predominantly urban regions are 20 percent more intensive² in producer service jobs compared to the national economy (Figure 1). Predominantly rural regions are only 60 percent as intensive in producer services jobs, compared to the national economy. Each type of predominantly rural region (i.e. metro-adjacent, non-metro-adjacent and the north) have similar (low) shares of their employment in producer services.

4 Statistics Canada - Catalogue no. 21-006-XIE

We use a location quotient, defined in Box 4, to measure "intensity".

Figure 1





Predominantly rural regions

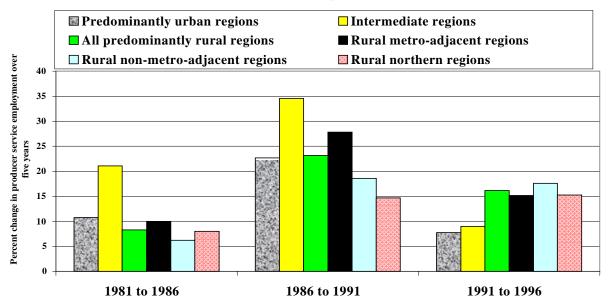
Source: Statistics Canada. Census of Population, 1981 to 1996. A predominantly rural region has over 50 percent of its population living in rural communities. An intermediate region has 15 to 49 percent and a predominantly urban region has less than 15 percent.

These sectors have been growing throughout the 1981 to 1996 period (Figure 2). This growth has occurred in each type of region. Predominantly rural regions, as a whole, reported growth comparable to the growth of predominantly urban regions during the 1980s. In the 1991 to 1996 period, each type of predominantly rural region showed stronger growth than either predominantly urban or intermediate regions.

However, this stronger growth in predominantly rural regions had a very small impact on the relative intensity of employment in the producer services sector in 1996 (as indicated by the location quotient in Figure 1).

Figure 2

In the 1991 to 1996 period, EACH predominantly rural region reported stronger employment growth in PRODUCER SERVICES employment



Source: Statistics Canada. Census of Population, 1981 to 1996. A predominantly rural region has over 50 percent of its population living in rural communities. An intermediate region has 15 to 49 percent and a predominantly urban region has less than 15 percent.

Provincial patterns of rural producer service employment

Another way to understand the pattern of employment in rural and small town (RST) areas in each province is to review the location quotients of RST employment, relative to the structure of employment for each respective province.

Here we concentrate specifically on the business services sub-sector because they are a potential exportable industry. Rural communities can grow if they increase their export base. Perhaps more realistically, rural communities will not decline if they can increase their employment in new export-base industries (e.g. manufacturing, tourism, business services, etc.) at a faster rate than the traditional export-based industries (e.g. agriculture, logging, fishing, mining, etc.) are discarding labour. Many analysts have argued (e.g. Chambers and Deans, 1998) that the Internet will allow business service proprietors to live anywhere and electronically deliver their services everywhere.

In the mid-1990s, RST areas were only 42 percent as intensive in business services employment as was the Canadian economy as a whole (i.e. the RST location quotient for business services is 42 in Table 1). The highest intensity for RST areas is in British Columbia, with a location quotient of 59.

Table 1. Location Quotients of the relative intensity of producer service employment in Rural and Small Town areas compared to the relative intensity of producer service employment in the province, 1996 to 1998 average

	Canada	New- found- land	Prince Edward Island		New Brunswick	Québec	Ontario	Manitoba	Sask- atchewan	Alberta	British Columbia
Finance, insurance and real estate	58	50	69	66	75	68	52	62	72	61	61
Services related to primary industries	202	128	129	137	137	185	223	224	156	164	205
Services related to construction industries	25	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Business services	42	43	50	53	52	39	45	36	47	40	59
Total Rural and Small Town	100	100	100	100	100	100	100	100	100	100	100

Source: Statistics Canada, Labour Force Survey.

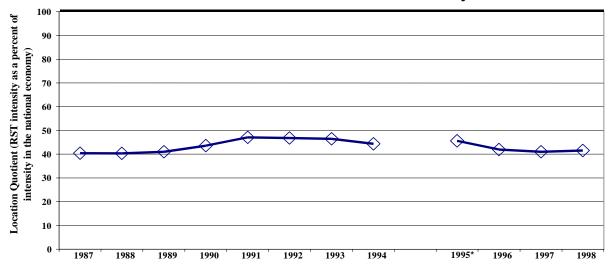
Between 1987 and 1998, employment in the business service sector grew from 0.6 million to 1.1 million. RST areas participated in this growth. However, the RST location quotient of 42 percent indicates that RST areas are only 42 percent as intensive in this growing sector as is the national economy as a whole (Figure 3). There has been virtually no change in this intensity over a decade. This is a good news <-> bad news scenario:

- a. the good news is that the RST location quotient **did not decline** in this period. In other words, RST employment in business services has grown at the same rate as the national rate and thus RST areas have maintained their (low) share of employment in this sector.
- b. The bad news is that the RST location quotient for business services is low <u>and</u> it **did not increase** in this period. Some stories in the popular press would lead one to believe that rural areas, facilitated by Internet access, are gaining employment relative to urban areas In this expanding sector.

[&]quot;Rural and Small Town" refers to the population outside CMAs and CAs. A CMA is an urban core of 100,000 or more plus the neighbouring municipalities where 50 percent of more of the workforce commutes into the urban core. A CA has an urban core of 10,000 to 99,999 and includes the neighbouring municipalities where 50 percent or more commute into the urban core. Thus, the "Rural and Small Town" population lives outside the commuting zone of larger urban centres.

Figure 3

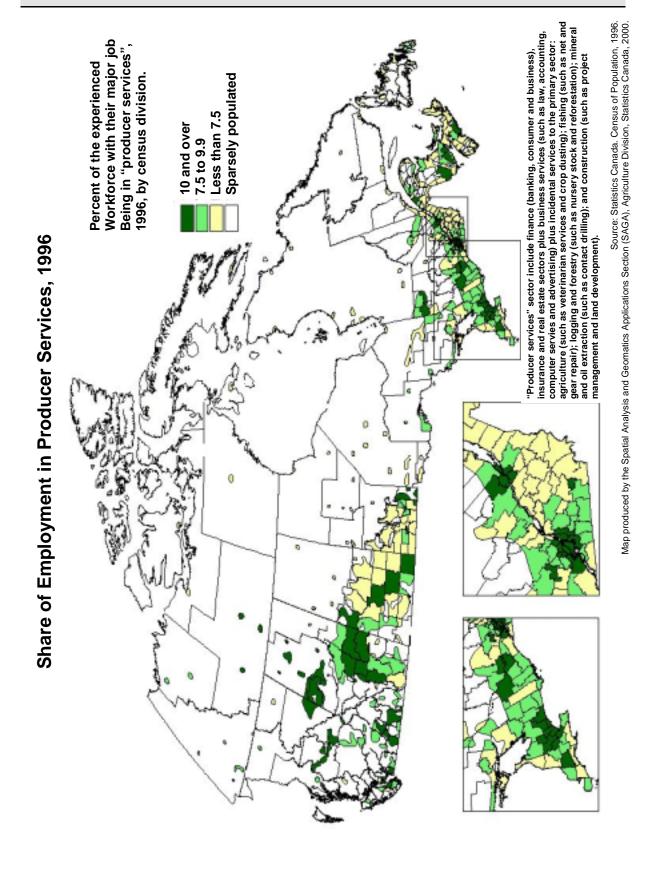
Rural and Small Town Canada is not increasing its intensity of employment in BUSINESS SERVICES relative to the overall Canadian economy



Source: Statistics Canada. Labour Force Survey. Rural and small town Canada refers to non-CMA/CA areas. A Census Metropolitan Area (CMA) has a core population of 100,000 or more and includes neighbouring municipalities where 50 percent or more of the workforce commutes to the core. A Census Agglomeration (CA) has a core population of 10,000 to 99,999 and includes neighbouring municipalities where 50 percent or more of the workforce commutes to the core.

Diversity within provinces

Relative to the total level of employment in a given census division, there are 67 census divisions (out of 288) in Canada with 10 percent or more of workforce employed in the producer services sectors (Map 1). Note that all of these localities are associated with cities. In addition, since our definition of producer services includes "incidental services to the primary and construction sectors" (such as enterprises growing tree nursery stock, reforestation enterprises and contract oil drilling enterprises), there are number of census divisions (in the interior of British Columbia, Alberta and southwestern Saskatchewan) with over 10 percent of the workforce in one of the producer services sectors. The eleven census divisions with over 15 percent of their workforce in producer services are associated with the large metropolitan centres of Toronto (the census divisions of Toronto, York, Halton, and Peel), Calgary, Vancouver, Ottawa, Montreal (the census divisions of Montreal and Champlain) and Quebec City (the census divisions of Desjardins and les Chutes de la Chaudière).



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Summary

The producer services sector is a growing sector. It has grown in each period since 1981.

Predominantly rural regions are participating in this growth. In fact, in the 1991 to 1996 period, employment in the producer services sector grew faster in each type of rural region compared to predominantly urban or intermediate regions.

However, rural regions still have a very low share of their employment in the producer services sectors. The good news is that RST areas are not losing their relative employment intensity in producer services. The bad news is that RST areas are not gaining relative to larger urban centres.

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Chambers, Edward J. and Deans, Mae. (1998) **The Rural Renaissance in Alberta: Some Empirical Evidence.** (Edmonton: University of Alberta, Faculty of Business, Western Centre for Economic Research, Information Bulletin No. 50, ISBN 1-55195-048-0, May).

Ehrensaft, Philip and Jennifer Beeman. (1992) "Distance and Diversity in Nonmetropolitan Economies," Chapter 9 in Ray D. Bollman. **Rural and Small Town Canada** (Toronto: Thompson Educational Publishing).

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Appendix

Table A1: Producer services employment by type of region, Canada and the Provinces, 1991 and 1996

Table 111. I Toddeer Servi	Total producer services (1) Finance & Real Estate Business service industries								
Type of region			Percent change			Percent change			Percent change
Type of region	in	in	in employment	in	in	in employment	in	in	in employment
	1991	1996	1991 - 1996	1991	1996	1991 - 1996	1991	1996	1991 - 1996
CANADA	1,616,915	1,765,235	9.2	769,080	760,590	-1.1	847,830	1,004,645	18.5
Predominantly urban regions	1,042,285	1,119,235	7.4	490,820	474,080	-3.4	551,470	645,150	17.0
Intermediate regions	280,305	305,995	9.2	141,635	142,250	0.4	138,670	163,750	18.1
All predominantly rural regions	294,325	340,005	15.5	136,630	144,255	5.6	157,700	195,745	24.1
Rural metro-adjacent regions	160,025	182,810	14.2	76,095	78,605	3.3	83,925	104,200	24.2
Rural non-metro-adjacent regions	117,100	137,545	17.5	54,130	58,070	7.3	62,970	79,475	26.2
Rural northern regions	17,200	19,645	14.2	6,400	7,580	18.4	10,805	12,065	11.7
NEWFOUNDLAND	12,885	14,620	13.5	6,400	6,425	0.4	6,485	8,195	26.4
Intermediate regions	8,525	9,635	13.0	4,140	4,035	-2.5 5.8	4,385	5,595	27.6
All predominantly rural regions	4,360	4,985	14.3	2,260	2,390	5.8	2,100	2,595	23.6
Rural non-metro-adjacent regions	3,670 690	4,300	17.2 -0.7	1,935 325	2,095 295	8.3 -9.2	1,735	2,210 385	27.4
Rural northern regions PRINCE EDWARD ISLAND (2)		685 4,055	10.5	1,835	1,875	-9.2 2.2	365 1,835	2,180	5.5 18.8
Rural metro-adjacent regions	3,670 2,400	2,610	8.8	1,180	1,120	-5.1	1,833	1,485	22.2
Rural non-metro-adjacent regions	1,270	1,450	14.2	655	750	14.5	620	695	12.1
NOVA SCOTIA	35,470	38,000	7.1	18,120	17,710	-2.3	17,350	20,285	16.9
Intermediate regions	21,270	23,360	9.8	11,165	10,870	-2.6	10,105	12,490	23.6
All predominantly rural regions	14,200	14,635	3.1	6,950	6,840	-1.6	7,240	7,795	7.7
Rural metro-adjacent regions	7,045	7,285	3.4	3,360	3,355	-0.1	3,685	3,930	6.6
Rural non-metro-adjacent regions	7,150	7,350	2.8	3,595	3,485	-3.1	3,555	3,865	8.7
NEW BRUNSWICK	24,305	29,005	19.3	12,005	12,405	3.3	12,295	16,600	35.0
Predominantly urban regions	3,105	3,225	3.9	1,605	1,345	-16.2	1,500	1,880	25.3
Intermediate regions	4,545	5,335	17.4	1,700	1,615	-5.0	2,845	3,720	30.8
All predominantly rural regions	16,645	20,440	22.8	8,705	9,445	8.5	7,945	11,000	38.5
Rural metro-adjacent regions	10,400	12,695	22.1	5,550	5,850	5.4	4,850	6,845	41.1
Rural non-metro-adjacent regions	6,245	7,745	24.0	3,150	3,595	14.1	3,095	4,155	34.2
QUEBEC	360,420	384,515	6.7	180,770	170,850	-5.5	179,645	213,665	18.9
Predominantly urban regions	252,525	263,830	4.5	123,175	112,415	-8.7	129,345	151,410	17.1
Intermediate regions	58,215	65,205	12.0	32,155	31,785	-1.2	26,065	33,415	28.2
All predominantly rural regions	49,675	55,485	11.7	25,440	26,645	4.7	24,235	28,835	19.0
Rural metro-adjacent regions	22,545	26,515	17.6	12,000	12,455	3.8	10,550	14,060	33.3
Rural non-metro-adjacent regions	25,480	27,240	6.9	12,725	13,330	4.8	12,755	13,910	9.1
Rural northern regions	1,645	1,725 740,735	4.9 4.7	720	870	20.8	925	860	-7.0
ONTARIO Predominantly urban regions	707,430 465,920	483,715	3.8	337,340 221,210	328,955 212,730	-2.5 -3.8	370,090 244,710	411,775 270,985	11.3 10.7
Intermediate regions	162,295	175,335	8.0	79,280	80,285	1.3	83,015	95,050	14.5
All predominantly rural regions	79,215	81,675	3.1	36,845	35,935	-2.5	42,365	45,735	8.0
Rural metro-adjacent regions	56,590	59,370	4.9	27,365	26,435	-3.4	29,220	32,935	12.7
Rural non-metro-adjacent regions	17,720	17,580	-0.8	7,755	7,530	-2.9	9,965	10,050	0.9
Rural northern regions	4,900	4,730	-3.5	1,725	1,975	14.5	3,180	2,755	-13.4
MANITOBA	49,900	52,990	6.2	28,050	26,300	-6.2	21,855	26,690	22.1
Predominantly urban regions	35,945	37,385	4.0	20,745	18,695	-9.9	15,195	18,685	23.0
All predominantly rural regions	13,960	15,605	11.8	7,300	7,605	4.2	6,655	8,000	20.2
Rural metro-adjacent regions	7,535	8,015	6.4	3,745	3,760	0.4	3,795	4,255	12.1
Rural non-metro-adjacent regions	5,115	6,195	21.1	2,980	3,190	7.0	2,135	3,000	40.5
Rural northern regions	1,300	1,400	7.7	575	655	13.9	725	745	2.8
SASKATCHEWAN	42,010	45,520	8.4	21,675	22,060	1.8	20,330	23,460	15.4
Intermediate regions	25,445	27,115	6.6	13,190	13,650	3.5	12,250	13,465	9.9
All predominantly rural regions	16,565	18,405	11.1	8,480	8,410	-0.8	8,080	9,995	23.7
Rural metro-adjacent regions	7,070	7,695	8.8	4,040	3,925	-2.8	3,030	3,770	24.4
Rural non-metro-adjacent regions	9,185	10,190	10.9	4,365	4,375	0.2	4,815	5,810	20.7
Rural northern regions	310	520	67.7	*	105	*	100 515	420	200
ALBERTA	170,290	196,965	15.7	66,780	65,920	-1.3	103,515	131,045	26.6
Predominantly urban regions	131,985	150,305	13.9	53,245	51,390	-3.5	78,735	98,915	25.6
All predominantly rural regions Rural metro-adjacent regions	38,310 25,025	30,420	21.8 21.6	0 105	14,530	7.4 11.1	24,780 15,830	32,133 20,200	29.7 27.6
Rural metro-adjacent regions Rural non-metro-adjacent regions	25,025			9,195	10,220		15,830	20,200	33.0
Rural non-metro-adjacent regions Rural northern regions	11,890 1,390	14,580 1,660	22.6 19.4	3,815 520	3,835 470	0.5 -9.6	8,075 870	10,740 1,190	36.8
BRITISH COLUMBIA	207,545	254,795	22.8	95,035	106,485	12.0	112,510	1,190	31.8
Predominantly urban regions	152,815	180,775	18.3	70,835	77,500	9.4	81,975	103,275	26.0
All predominantly rural regions	54,730	74,020	35.2	24.195	28,985	19.8	30,535	45,035	47.5
Rural metro-adjacent regions	21,405	28,210	31.8	9,660	11,485	18.9	11,745	16,720	42.4
Rural non-metro-adjacent regions	29,365	40,910	39.3	13,150	15,880	20.8	16,215	25,035	54.4
Rural northern regions	3,965	4,900	23.6	1,390	1,620	16.5	2,575	3,275	27.2
Yukon (3)	1,205	1,590	32.0	400	500	25.0	810	1,085	34.0
NWI (3)	1,795	2,435	35.7	6/5	1,085	60.7	1,120	1,345	20.1
Samuel Statistics County Courses		201 1006							

Source: Statistics Canada. Census of Population, 1991-1996.

⁽¹⁾ The analysis in the text (see Box 3) allocated services incidental to the primary and the construction sectors to the producer services sector. In this table, services incidental to primary and construction sectors are allocated to the primary and construction sectors, respectively. In consequence, the numbers for percent change in employment in total producer services for Canada in this table are generally somewhat lower than those displayed in the relevant charts.

(2) Since all of Prince Edward Island is classified as "predominantly rural regions", the total for the province provides the data for "all predominantly rural regions".

⁽³⁾ Since all of the Yukon and the Northwest Territories are classified as "rural northern regions", the total for each territory provides the data for "rural northern regions".

* Estimated population is less than 100.

[&]quot; Not applicable

Rural and Small Town Canada Analysis Bulletins (Cat. No. 21-006-XIE)

Volume 2

- No. 1: Factors Associated with Female Employment Rates in Rural and Small Town Canada Esperanza Vera-Toscano, Euan Phimister and Alfons Weersink
- No. 2: Population Structure and Change in Predominantly Rural Regions Roland Beshiri and Ray D. Bollman
- No. 3: Rural Youth Migration Between 1971 and 1996 Juno Tremblay
- No. 4: Housing Conditions in Predominantly Rural Regions Carlo Rupnik, Juno Tremblay and Ray D. Bollman
- No. 5: Measuring Economic Well-Being of Rural Canadians Using Income Indicators
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Volume 1

- No. 1: Rural and Small Town Population is Growing in the 1990s
 Robert Mendelson and Ray D. Bollman
- No. 2: Employment Patterns in the Non-Metro Workforce
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