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Health Regions 2003

Boundaries and correspondence with census geography

Cat. no 82-402-XIE

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Health Regions 2003

Background

In recent years there has been an increasing demand for relevant health information at a 'community' level. As a result, health regions have become an important geographic unit by which health and health-related data are produced.

Health regions are defined by provincial ministries of health, and generally comprise legislated administrative areas representing geographic areas of responsibility for hospital boards or regional health authorities.

The first national health region geographic product was created by Statistics Canada in collaboration with provincial health ministries. *Health regions 2000 - Boundaries, geographic information and population estimates* (Cat. no. 82F0082XCB) was released on a CD-ROM by the Health Statistics Division of Statistics Canada in October 2000. The reference date for these health region boundaries was January 2000.

Health regions, being provincial administrative areas, are subject to change. Since the 'Health Regions 2000' product was created, a number of provinces have undergone regional restructuring of health administration with substantial boundary changes, especially in British Columbia and Alberta. Other provinces have also adjusted their boundaries and health region names. In 2002, work began to bring the health regions recognised by Statistics Canada up to date. In addition to revising these boundaries, links to 2001 Census geographic units became possible. *Health Regions 2003* reflects the boundaries and names in effect as of June 2003, and provides the geographic linkage to 1996 and 2001 Censuses.

Description

The generic term "health region" applies to a variety of administrative areas across Canada that are defined by provincial ministries of health. For complete Canadian coverage, each of the northern territories also represent a health region.

The following table describes the health regions, by province, with reference to the provincial legislation under which these areas have been defined:

TABLE 1: Health Regions in Canada, 2003

Province /territory	Health Regions 2003	Units	Relevant Legislation
NL	Community Health Regions	6	SNL 1995 Chapter P-37.1 - Health and Community Services Act
PE	Health Regions	4	Bill No. 43, Chapter 29, An Act to Amend the Health and Community Services Act. (geography); Regulation EC2002-629; Ministerial Order dated 24 October 2002
NS	Zones ¹	6	Health Authorities Act (Statutes of Nova Scotia 2000, c. 6) sec.84
NB	Health Regions	7	Regional Health Authorities Act (Chapter R-5.05) - Schedule A
QC	Régions sociosanitaires ² (RSS)	18	Article 339 de la Loi sur les services de santé et les services sociaux (L.R.Q., chapitre S-4.2); la Loi sur les services de santé et les services sociaux (L.R.Q., chapitre S-5); les décrets 1213-78, 1813-91, 1815-91, 1816-91, 1817-91, 1818-91, 1819-91, 1820-91, 1821-91, 1822-91, 1823-91, 1824-91, 1825-91, 1826-91, 1827-91, 1828-91, 655-94.
ON	Public Health Units ³	37	Regulation 553 (Revised Regulations of Ontario), pursuant to Health Protection and Promotion Act R.S.O. 1990, c. H-7; Amended to O. Reg. 197/01
	District Health Councils	16	Health Protection and Promotion Act R.S.O. 1990, c. M-26
MB	Regional Health Authorities	11	Regional Health Authorities Establishment Regulation (regulation 207/97) pursuant to The Regional Health Authorities Act (C.C.S.M. c. R34); amended Regulations 99/2002 and 169/2002.
SK	Regional Health Authorities	13	The Regional Health Services Act, Chapter R-8.2; The Regional Health Services Administration Regulations, Chapter R-8.2 Reg 1
AB	Regional Health Authorities	9	Regional Health Authorities Act Chapter R-10, region changes effective April 1 2003 pursuant to Ministerial Order
BC	Health Service Delivery Areas (HSDA) ⁴	16	Health Authorities Amendment Act, Statutes of B.C. 2002 (see B.C. Regulation 225/2003 also); Health Authorities Act Chapter 180 (and associated Regulations)
YT	-	1*	An Act To Amend the Public Health Act, Statutes of the Yukon, 1997
NT	-	1*	Consolidation of Northwest Territories Health District Establishment Order, R-080-2000 (pursuant to Public Health Act)
NU	-	1*	Public Health Act (Statutes of Northwest Territories 1998 chapter 5)

* Entire territory represents a health region

¹ Nova Scotia health zones aggregate to the nine district health authorities.

² Régions sociosanitaires in Quebec coincide with the 17 administrative regions in the province.

³ Ontario Public Health Units (PHU) are official health agencies that administer health promotion and disease prevention programs. Ontario District Health Councils (DHCs) are advisory, health planning organizations that make recommendations on resource distribution and provide advice on integration of health services in their community. Generally DHCs coincide with and are comprised of one or more PHUs, with two exceptions: Porcupine Health Unit and Renfrew County and District Health Unit are split by more than one DHC.

⁴ HSDAs in B.C. aggregate into five Health Authorities (HA)

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Health Region Code Structure

A four digit numeric code is used to uniquely identify health regions. The first two digits represent the province, and the second two digits represent the health region. These codes reflect the same codes used by the provincial ministries of health. For those provinces where a numeric code is not applicable, a two-digit code was assigned. Ontario uses a 4-digit code for public health units. This code was truncated to the last two digits for consistency in the national health region code structure. Since Ontario has two sets of health regions, which do not entirely relate hierarchically, their codes are unique within the province.

The names of the health regions also represent the official names used by the provinces. See Appendix 1 – Health regions 2003: Names and codes by province and territory.

Geographic Coding Tools

Production of health region level data requires geographic coding tools. Since census geography does not recognize provincial health region boundaries, a HR-to-census geography correspondence file provides the linkage between health regions and their component census geographic units. These correspondence files use the smallest relevant census geographic unit.

Other data sources use postal codes to geographically reference data records. These data are first converted to census geographic units using the Statistics Canada postal code conversion file, then linked to health regions based on the correspondence file.

To accommodate various data sources producing health region level data, linkage has been created for both 1996 and 2001 Census geographies.

The layout of these correspondence files includes the seven-digit Standard Geographic Classification (SGC) code. The SGC code uniquely represents census subdivisions (CSD) with a numeric system. Most health regions comprise entire CSDs (see Table 2). However, given that there are many cases where health regions do not conform with municipalities, the 1996 Census linkage was done at the enumeration area (EA) level and, more recently, the 2001 Census linkage was created at the dissemination area (DA) level (and block level for Alberta, Saskatchewan and Manitoba). Even these smaller areas sometimes straddle health region boundaries. In those cases, the entire EA or DA (or block) was assigned, in conjunction with the affected province, to just one health region and therefore represents a “best fit” with census geography.

Correspondence files were provided by Alberta (Alberta Treasury supplied files with 1996 EA and 2001 link to Census blocks) and British Columbia (BC Stats provided EA and 2001 link to DAs).

TABLE 2: Census Geography Definitions

Geographic Term	Definition
Census Subdivision (CSD)	A municipality or an area that is deemed to be equivalent to a municipality for statistical reporting purposes (e.g., as an Indian reserve or an unorganized territory). Municipal status is defined by laws in effect in each province and territory in Canada.
1996 Census enumeration area (EA)	The geographic area canvassed by one census representative. It is the smallest standard geographic area for which census (1996 and previous) data are reported. All the territory of Canada is covered by EAs.
2001 Census dissemination area (DA)	Small area composed of one or more neighbouring blocks, with a population of 400 to 700 persons. All of Canada is divided into dissemination areas.
2001 Census block	An area equivalent to a city block bounded by intersecting streets. These areas cover all of Canada.

The dissemination/enumeration area-to-health region (DA/EA-to-HR) correspondence files provided in the *Health Regions - 2003* product are available in comma-separated value (.CSV) format for each province and for the northern territories. The record layout of the files is shown in the following tables.

TABLE 3: 2001 Census Health Region Correspondence File Layout

Variable name	Comments
DAUID / BLKUID**	(dissemination area unique ID / block unique ID) PR-FED-DA (province, federal electoral district, dissemination area, census block**)
CSDUID	(<i>Standard Geographical Classification</i> [SGC] code) PR-CD-CSD (province, census division, census subdivision)
PR-HRUID	(health region code) PR-HR (province, health region) unique ID
HRNAME	(health region name)
POP2001	(unadjusted 2001 Census population count)

**10-digit census block ID (BLKUID) applies to the provinces of Manitoba, Saskatchewan, and Alberta only. The first 8 digits comprise the DA code (DAUID) for these provinces.

TABLE 4: 1996 Census Health Region Correspondence File Layout, (national & Ont. DHC)

Variable name	Comments
EAUID	(enumeration area unique ID) PR-FED-EA (province, federal electoral district, enumeration area)
CSDUID	(<i>Standard Geographical Classification</i> [SGC] code) PR-CD-CSD (province, census division, census subdivision)
HRUID	(health region code) PR-HR (province, health region) unique ID
HRNAME	(health region name)
POP1996	(unadjusted 1996 Census population count)

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Health Regions and Standard Geography

For the most part, health regions can be described as groupings of counties (census divisions) or municipalities (census subdivisions). This description holds especially true in the Atlantic provinces, Quebec, and Ontario (with minor exceptions in northern Ontario). In the western provinces, health regions are less likely to follow census division or census subdivision boundaries.

The following table provides a count, by province, of census subdivisions that fall in more than one health region.

TABLE 5: Census Subdivisions Linked to More Than One Health Region

Provinces with splits	1996 CSDs	2001 CSDs
Newfoundland and Labrador	3	3
Ontario	6	5
Manitoba	4	8
Saskatchewan	21	48
Alberta	19	7
British Columbia	15	12

Boundary Files

The health region boundaries provided in this product are based on 2001 Census geographic units. The smallest geographic unit available has been used as the building block to define health regions. In all provinces except Alberta, Saskatchewan and Manitoba, the dissemination area was used to define health regions. In the western provinces, the DA is not ideal and would create additional distortion as a building block. Therefore, the census block (a smaller geographic unit introduced for 2001 Census) has been used to improve the accuracy of these boundaries. Even with this improved resolution, the boundary files do not always reflect the true, legal limits recognized by the provinces. For the most part, they are based on a best-fit linkage to census geography. To maximize comparability, the provincial ministries of health shared their census linkage files where applicable.

Method Used to Create Health Region 2003 Boundary Files

The latest boundaries for health regions were produced under several different circumstances:

1. Provinces reporting no geographic changes since 2000

Ontario, Newfoundland and Labrador, Nova Scotia and New Brunswick boundaries were created based on the limits of 2000 transposed onto the latest census geographic infrastructure, to relate these areas to their component municipalities as of Jan. 1, 2001. Contacts in these provinces' health ministries were involved in verifying that the limits reflected correct boundaries as of April 2003. In Ontario and Newfoundland, a few

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exceptional cases exist where health regions split census subdivisions. These boundary exceptions (or splits) were maintained based on best-fit to dissemination areas (DA). For selected regions in northern Ontario, the boundary files were adjusted to better reflect the shape of the actual public health unit limits.

2. Boundaries based on 2001 census subdivisions components

In Prince Edward Island, the 2003 health regions represent the four administrative areas defined by P.E.I. Ministry of Health and Social Services. These health regions replace the two statistical units (urban and rural regions) previously used by Statistics Canada. The new boundaries were created based on aggregation of the 2001 census subdivision (municipality) components. Quebec health region component CSDs were accessed from the *ministère de la Santé et les Services sociaux - MSSS (le découpage territorial et la géomatique)* <http://www.msss.gouv.qc.ca/f/statistiques/index.htm>. The resulting health region boundaries and correspondence to 2001 Census units were verified by the province.

3. Correspondence files provided

British Columbia (BC Stats) and Alberta (Alberta Treasury) provided correspondence files with linkage to 2001 census units from which the boundaries were created. BC Stats used DAs to create the best-fit linkage between the health service delivery areas and 2001 Census. Alberta provided the linkage between the latest regional health authorities boundaries using the best-fit to 2001 census blocks. These DA and census block based files were used to create the new health region boundary file. Boundaries files created based on DA and especially census blocks produce a more accurate linkage to 2001 Census geography than those created based on linkage to 1996 census enumeration areas. However, there are still cases where health regions are split by blocks and dissemination area boundaries, and therefore the boundaries created from these best-fit linkages do not always represent the actual limits of health regions. For more information about the quality of the geographic linkages contact [BC Stats](#) or [Alberta Treasury](#).

4. Boundary overlay process used to create link with census

Contacts in Manitoba and Saskatchewan ministries of health provided “shape files” or digital boundary files reflecting current health region boundaries. Statistics Canada’s Geography Division used a GIS program to ‘reconcile’ these files with the 2001 Census geographic infrastructure to create a one-to-one relationship with census blocks. To involve the provinces in verifying this work, maps were created to indicate the discrepancies between reconciled boundaries (best-fit to blocks) and actual boundary provided. In each province, for only a few northern areas where the census blocks were still insufficiently close to existing health region boundary, arcs were added to better represent the health region boundaries as viewed in the province’s “shape file”. These boundaries were modified with agreement from the provincial authorities, to reduce the distortion of boundaries created by the reconciliation process.

Boundary file formats

All digital health region boundaries in the *Health Regions - 2003* product are available in two formats: ARC/INFO® EXPORT and MapInfo®, Version 5.0 for Windows. The coordinates are in latitude/longitude.

The extension of the ARC/INFO® EXPORT files is E00. In MapInfo® for Windows, a self-extracting executable (EXE) is provided. This file expands to provide the four files, with different extensions, for each province. The four extensions are: TAB, DAT, ID, and MAP.

Boundary files are provided as one national boundary file and as individual provincial boundary files.

Projection information

The map projection parameters used to create the health region boundaries are as follows;

Lambert Conformal Conic

Datum = NAD83

Units = meters

Spheroid = GRS North American 83

Parameters:

1st standard parallel: 49° 00' 00"

2nd standard parallel: 77° 00' 00"

Central Meridian: -91° 52' 00"

Latitude of Projection Origin: 63° 23' 26.43"

False Easting: 6200000

False Northing: 3000000

Minimum System Requirements

- Pentium PC
- Windows 98 / NT 4.0
- Minimum 32 MB RAM
- Minimum 30 MB free space on Hard disk
- Microsoft Mouse or compatible

To use MapInfo boundary files:

MapInfo Version 5.0 for Windows or newer

To use ARC/INFO EXPORT boundary files:

ARC/INFO Version 7.0 or newer

ArcView Version 3.0 or newer

Acknowledgements

Health Statistics Division worked closely with the provincial Ministries of Health and the Geography Division of Statistics Canada to produce this product. BC Stats and Alberta Treasury also contributed directly to this work by providing health region-to-census geography linkage files. Saskatchewan Health and Manitoba Health provided digital boundaries (shape files). All provincial contacts participated in the final verification.

APPENDIX 1: Health Regions in Canada, 2003

Newfoundland and Labrador

1001	Health and Community Services St. John's Region
1002	Health and Community Services Eastern Region
1003	Health and Community Services Central Region
1004	Health and Community Services Western Region
1005	Grenfell Regional Health Services Board
1006	Health Labrador Corporation

Prince Edward Island

1101	West Prince
1102	East Prince
1103	Queens
1104	Kings

Nova Scotia

1201	Zone 1
1202	Zone 2
1203	Zone 3
1204	Zone 4
1205	Zone 5
1206	Zone 6

New Brunswick

1301	Region 1
1302	Region 2
1303	Region 3
1304	Region 4
1305	Region 5
1306	Region 6
1307	Region 7

Quebec

2401	Région du Bas-Saint-Laurent
2402	Région du Saguenay - Lac-Saint-Jean
2403	Région de Québec
2404	Région de la Mauricie et du Centre-du-Québec
2405	Région de l'Estrie
2406	Région de Montréal-Centre
2407	Région de l'Outaouais
2408	Région de l'Abitibi-Témiscamingue
2409	Région de la Côte-Nord
2410	Région du Nord-du-Québec
2411	Région de la Gaspésie - Îles-de-la-Madeleine
2412	Région de la Chaudière-Appalaches
2413	Région de Laval
2414	Région de Lanaudière
2415	Région des Laurentides
2416	Région de la Montérégie
2417	Région du Nunavik
2418	Région des Terres-Cries-de-la-Baie-James

Ontario

District Health Councils (DHC)

3501	Champlain DHC
3502	Southeastern Ontario DHC
3503	Durham-Haliburton-Kawartha and Pine Ridge DHC
3504	Toronto DHC
3505	Simcoe York DHC
3506	Halton-Peel DHC

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3507 Waterloo Region-Wellington-Dufferin DHC
 3508 Hamilton DHC
 3509 Niagara DHC
 3510 Grand River DHC
 3511 Thames Valley DHC
 3512 Essex-Kent and Lambton DHC
 3513 Grey Bruce Huron Perth DHC
 3514 Northern Shores DHC
 3515 Algoma-Cochrane-Manitoulin and Sudbury DHC
 3516 Northwestern Ontario DHC

Public Health Units

3526 The District of Algoma Health Unit
 3527 Brant County Health Unit
 3530 Durham Regional Health Unit
 3531 Elgin-St Thomas Health Unit
 3533 Grey Bruce Health Unit
 3534 Haldimand-Norfolk Health Unit
 3535 Haliburton, Kawartha, Pine Ridge District Health Unit
 3536 Halton Regional Health Unit
 3537 City of Hamilton Health Unit
 3538 Hastings and Prince Edward Counties Health Unit
 3539 Huron County Health Unit
 3540 Chatham-Kent Health Unit
 3541 Kingston, Frontenac and Lennox and Addington Health Unit
 3542 Lambton Health Unit
 3543 Leeds, Grenville and Lanark District Health Unit
 3544 Middlesex-London Health Unit
 3545 Muskoka-Parry Sound Health Unit
 3546 Niagara Regional Area Health Unit
 3547 North Bay and District Health Unit
 3549 Northwestern Health Unit
 3551 City of Ottawa Health Unit
 3552 Oxford County Health Unit
 3553 Peel Regional Health Unit
 3554 Perth District Health Unit
 3555 Peterborough County-City Health Unit
 3556 Porcupine Health Unit
 3557 Renfrew County and District Health Unit
 3558 The Eastern Ontario Health Unit
 3560 Simcoe County District Health Unit
 3561 Sudbury and District Health Unit
 3562 Thunder Bay District Health Unit
 3563 Timiskaming Health Unit
 3565 Waterloo Health Unit
 3566 Wellington-Dufferin-Guelph Health Unit
 3568 Windsor-Essex County Health Unit
 3570 York Regional Health Unit
 3595 City of Toronto Health Unit

Manitoba

4610 Winnipeg Regional Health Authority
 4615 Brandon Regional Health Authority
 4620 North Eastman Regional Health Authority
 4625 South Eastman Regional Health Authority
 4630 Interlake Regional Health Authority
 4640 Central Regional Health Authority
 4645 Assiniboine Regional Health Authority
 4660 Parkland Regional Health Authority
 4670 Norman Regional Health Authority
 4680 Burntwood Regional Health Authority
 4690 Churchill Regional Health Authority

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Saskatchewan

4701	Sun Country Regional Health Authority
4702	Five Hills Regional Health Authority
4703	Cypress Regional Health Authority
4704	Regina Qu'Appelle Regional Health Authority
4705	Sunrise Regional Health Authority
4706	Saskatoon Regional Health Authority
4707	Heartland Regional Health Authority
4708	Kelsey Trail Regional Health Authority
4709	Prince Albert Parkland Regional Health Authority
4710	Prairie North Regional Health Authority
4711	Mamawetan Churchill River Regional Health Authority
4712	Keewatin Yatthé Regional Health Authority
4713	Athabasca Health Authority

Alberta

4820	Chinook Regional Health Authority
4821	Palliser Health Region
4822	Calgary Health Region
4823	David Thompson Regional Health Authority
4824	East Central Health
4825	Capital Health
4826	Aspen Regional Health Authority
4827	Peace Country Health
4828	Northern Lights Health Region

British Columbia

5911	East Kootenay
5912	Kootenay-Boundary
5913	Okanagan
5914	Thompson/Cariboo
5921	Fraser East
5922	Fraser North
5923	Fraser South
5931	Richmond
5932	Vancouver
5933	North Shore/Coast Garibaldi
5941	South Vancouver Island
5942	Central Vancouver Island
5943	North Vancouver Island
5951	Northwest
5952	Northern Interior
5953	Northeast

Yukon Territory

6001	Yukon Territory
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Northwest Territories

6101	Northwest Territories
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Nunavut

6201	Nunavut
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APPENDIX 2: Summary of Changes to Health Regions, 2000 and 2003

Prov	Health regions 2000	Units	Health Regions 2003	Units	Comments
NL	Community Health Regions	6	Community Health Regions	6	- no change
PE	Urban and rural regions	2	Health Regions	4	- now reflecting the four administrative areas
NS	Zones	6	Zones	6	- no change
NB	Health Regions	7	Health Regions	7	- no change
QC	<i>Régions sociosanitaires</i>	18	<i>Régions sociosanitaires</i>	18	- changes caused by municipal adjustments affecting regional limits only
ON	Public health units (PHUs)	37	PHUs	37	- some name changes only
	District health councils	16	DHCs	16	- some name changes only
MB	Health Regions	12	Regional Health Authorities	11	- RHAs Marquette and South Westman combined into one (Assiniboine), plus other minor boundary changes
SK	Service Areas	11	Regional Health Authorities	13	- new RHAs are similar to many service area boundaries – exceptions in 4711 which is now split into three regions.
AB	Health Authorities	17	Regional Health Authorities	9	- total boundary revision – came into effect on April 1, 2003
BC	Health Regions	20	Health Service Delivery Areas (HSDA)	16	- total boundary revision –new BC regions became final in June 2002 - in June 2003, the BC Ministry of Health approved subsequent boundary changes within Vancouver Island Health Authority affecting 3 HSDAs
YT	Territory	1	Territory	1	- no change
NT	Territory	1	Territory	1	- no change
NU	Territory	1	Territory	1	- no change

APPENDIX 3: Detailed List of Census Subdivisions Split by Two or More Health Regions, 2001

CSD	HR	HR Name	Population	% population split in CDSs
Newfoundland				
1001339	1001	Health and Community Services St John's Region	5	0.2%
1001339	1002	Health and Community Services Eastern Region	2386	99.8%
			2391	
1009021	1004	Health and Community Services Western Region	499	15.2%
1009021	1005	Grenfell Regional Health Services Board	2783	84.8%
			3282	
1010008	1005	Grenfell Regional Health Services Board	244	49.5%
1010008	1006	Health Labrador Corporation	249	50.5%
			493	
Ontario PHU				
3549096	3545	Muskoka-Parry Sound Health Unit	594	27.0%
3549096	3547	North Bay and District Health Unit	1604	73.0%
			2198	
3554094	3556	Porcupine Health Unit	90	2.7%
3554094	3563	Timiskaming Health Unit	3185	97.3%
			3275	
3557095	3526	The District of Algoma Health Unit	6079	99.7%
3557095	3556	Porcupine Health Unit	20	0.3%
			6099	
3558090	3549	Northwestern Health Unit	69	1.1%
3558090	3562	Thunder Bay District Health Unit	6102	98.9%
			6171	
3560090	3549	Northwestern Health Unit	7626	100.0%
3560090	3556	Porcupine Health Unit	0	0.0%
3560090	3562	Thunder Bay District Health Unit	0	0.0%
			7626	
Manitoba				
4601094	4620	North Eastman	391	58.4%
4601094	4625	South Eastman	279	41.6%
			670	
4602075	4625	South Eastman	4958	100.0%
4602075	4640	Central	0	0.0%
			4958	
4607065	4615	Brandon	0	0.0%
4607065	4645	Assiniboine	1853	100.0%
			1853	
4608031	4640	Central	0	0.0%
4608031	4645	Assiniboine	1246	100.0%
			1246	
4610035	4610	Winnipeg	0	0.0%

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4610035	4640	Central	5320	100.0%
			5320	
4617026	4640	Central	451	27.5%
4617026	4660	Parkland	1190	72.5%
			1641	
4618091	4620	North Eastman	0	0.0%
4618091	4630	Interlake	47	100.0%
			47	
4619045	4620	North Eastman	697	21.7%
4619045	4630	Interlake	426	13.2%
4619045	4660	Parkland	2094	65.1%
			3217	
Saskatchewan				
4701091	4701	Sun Country RHA	305	80.1%
4701091	4704	Regina Qu'Appelle RHA	76	19.9%
			381	
4701094	4701	Sun Country RHA	316	83.4%
4701094	4704	Regina Qu'Appelle RHA	63	16.6%
			379	
4702800	4701	Sun Country RHA	0	
4702800	4702	Five Hills RHA	0	
4702800	4704	Regina Qu'Appelle RHA	0	
			0	
4703001	4701	Sun Country RHA	311	100.0%
4703001	4702	Five Hills RHA	0	0.0%
			311	
4703006	4701	Sun Country RHA	95	40.4%
4703006	4702	Five Hills RHA	140	59.6%
			235	
4703064	4702	Five Hills RHA	160	52.5%
4703064	4703	Cypress RHA	145	47.5%
			305	
4705011	4701	Sun Country RHA	200	39.1%
4705011	4704	Regina Qu'Appelle RHA	311	60.9%
			511	
4705014	4701	Sun Country RHA	461	93.9%
4705014	4704	Regina Qu'Appelle RHA	30	6.1%
			491	
4705018	4701	Sun Country RHA	343	74.1%
4705018	4704	Regina Qu'Appelle RHA	120	25.9%
			463	
4705042	4704	Regina Qu'Appelle RHA	15	13.6%
4705042	4705	Sunrise RHA	95	86.4%
			110	
4705051	4704	Regina Qu'Appelle RHA	0	0.0%
4705051	4705	Sunrise RHA	872	100.0%
			872	
4705063	4704	Regina Qu'Appelle RHA	271	45.3%
4705063	4705	Sunrise RHA	327	54.7%
			598	

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4705804	4704	Regina Qu'Appelle RHA	385	100.0%
4705804	4705	Sunrise RHA	0	0.0%
			385	
4706021	4702	Five Hills RHA	273	55.3%
4706021	4704	Regina Qu'Appelle RHA	221	44.7%
			494	
4706059	4702	Five Hills RHA	103	18.3%
4706059	4704	Regina Qu'Appelle RHA	460	81.7%
			563	
4706063	4702	Five Hills RHA	55	19.4%
4706063	4704	Regina Qu'Appelle RHA	229	80.6%
			284	
4706071	4704	Regina Qu'Appelle RHA	98	19.0%
4706071	4706	Saskatoon RHA	419	81.0%
			517	
4706099	4704	Regina Qu'Appelle RHA	233	86.9%
4706099	4705	Sunrise RHA	35	13.1%
			268	
4709060	4705	Sunrise RHA	466	65.6%
4709060	4708	Kelsey Trail RHA	244	34.4%
			710	
4710003	4704	Regina Qu'Appelle RHA	0	0.0%
4710003	4705	Sunrise RHA	532	100.0%
			532	
4710026	4704	Regina Qu'Appelle RHA	226	81.0%
4710026	4706	Saskatoon RHA	53	19.0%
			279	
4710027	4704	Regina Qu'Appelle RHA	625	100.0%
4710027	4706	Saskatoon RHA	0	0.0%
			625	
4710031	4704	Regina Qu'Appelle RHA	238	43.4%
4710031	4706	Saskatoon RHA	310	56.6%
			548	
4710036	4705	Sunrise RHA	678	97.1%
4710036	4706	Saskatoon RHA	20	2.9%
			698	
4710041	4705	Sunrise RHA	0	0.0%
4710041	4706	Saskatoon RHA	570	100.0%
			570	
4710042	4705	Sunrise RHA	0	0.0%
4710042	4706	Saskatoon RHA	30	100.0%
			30	
4710071	4706	Saskatoon RHA	808	80.5%
4710071	4708	Kelsey Trail RHA	196	19.5%
			1004	
4710826	4705	Sunrise RHA	36	10.9%
4710826	4706	Saskatoon RHA	294	89.1%
			330	
4711018	4702	Five Hills RHA	40	10.4%
4711018	4707	Heartland RHA	344	89.6%
			384	

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4711039	4704	Regina Qu'Appelle RHA	125	38.5%
4711039	4706	Saskatoon RHA	185	56.9%
4711039	4707	Heartland RHA	15	4.6%
			325	
4711042	4704	Regina Qu'Appelle RHA	35	16.7%
4711042	4706	Saskatoon RHA	175	83.3%
			210	
4712029	4706	Saskatoon RHA	86	36.0%
4712029	4707	Heartland RHA	153	64.0%
			239	
4712050	4706	Saskatoon RHA	172	40.0%
4712050	4707	Heartland RHA	258	60.0%
			430	
4712069	4707	Heartland RHA	302	85.3%
4712069	4710	Prairie North RHA	52	14.7%
			354	
4713068	4707	Heartland RHA	472	76.4%
4713068	4710	Prairie North RHA	146	23.6%
			618	
4713072	4707	Heartland RHA	421	100.0%
4713072	4710	Prairie North RHA	0	0.0%
			421	
4714035	4706	Saskatoon RHA	0	0.0%
4714035	4708	Kelsey Trail RHA	673	100.0%
			673	
4715048	4706	Saskatoon RHA	205	40.9%
4715048	4708	Kelsey Trail RHA	296	59.1%
			501	
4715054	4706	Saskatoon RHA	90	13.6%
4715054	4708	Kelsey Trail RHA	87	13.1%
4715054	4709	Prince Albert Parkland RHA	487	73.3%
			664	
4715057	4706	Saskatoon RHA	537	46.5%
4715057	4709	Prince Albert Parkland RHA	617	53.5%
			1154	
4715061	4706	Saskatoon RHA	401	42.4%
4715061	4709	Prince Albert Parkland RHA	544	57.6%
			945	
4715071	4708	Kelsey Trail RHA	325	39.8%
4715071	4709	Prince Albert Parkland RHA	492	60.2%
			817	
4716005	4706	Saskatoon RHA	79	18.0%
4716005	4710	Prairie North RHA	361	82.0%
			440	
4716028	4709	Prince Albert Parkland RHA	0	0.0%
4716028	4710	Prairie North RHA	1078	100.0%
			1078	
4717001	4709	Prince Albert Parkland RHA	0	0.0%
4717001	4710	Prairie North RHA	885	100.0%
			885	
4717054	4710	Prairie North RHA	2761	100.0%

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4717054	4712	Keewatin Yatthé RHA	0	0.0%
			2761	
4717812	4709	Prince Albert Parkland RHA	0	0.0%
4717812	4710	Prairie North RHA	514	100.0%
			514	
4718090	4708	Kelsey Trail RHA	75	4.9%
4718090	4709	Prince Albert Parkland RHA	38	2.5%
4718090	4710	Prince Albert Parkland RHA	0	0.0%
4718090	4711	Mamawetan Churchill River RHA	888	57.4%
4718090	4712	Keewatin Yatthé RHA	358	23.2%
4718090	4713	Athabasca Health Authority	187	12.1%
			1546	

Alberta

4803018	4801	Chinook Regional Health Authority	2324	42.9%
4803018	4803	Calgary Health Region	3088	57.1%
			5412	
4803021	4801	Chinook Regional Health Authority	301	76.8%
4803021	4803	Calgary Health Region	91	23.2%
			392	
4804004	4802	Palliser Health Region	903	38.7%
4804004	4804	David Thompson Regional Health Authority	1428	61.3%
			2331	
4805012	4803	Calgary Health Region	7889	100.0%
4805012	4804	David Thompson Regional Health Authority	0	0.0%
			7889	
4814003	4806	Capital Health	765	7.7%
4814003	4807	Aspen Regional Health Authority	9116	92.3%
			9881	
4817027	4807	Aspen Regional Health Authority	5	0.1%
4817027	4808	Peace Country Health	5840	99.9%
			5845	
4817076	4808	Peace Country Health	3636	86.2%
4817076	4809	Northern Lights Health Region	581	13.8%
			4217	

British Columbia

5903010	5911	East Kootenay	1241	58.4%
5903010	5912	Kootenay/Boundary	884	41.6%
			2125	
5909014	5914	Thompson/Cariboo	0	0.0%
5909014	5921	Fraser East	596	100.0%
			596	
5909060	5921	Fraser East	1227	99.2%
5909060	5922	Fraser North	10	0.8%
			1237	
5915015	5931	Richmond	164345	100.0%
5915015	5932	Vancouver	0	0.0%
			164345	
5915020	5922	Fraser North	15	0.2%
5915020	5923	Fraser South	109	1.4%

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5915020	5931	Richmond	0	0.0%
5915020	5932	Vancouver	7816	97.3%
5915020	5933	North Shore/Coast Garibaldi	94	1.2%
			8034	
5931017	5914	Thompson/Cariboo	5	0.3%
5931017	5933	North Shore/Coast Garibaldi	1499	99.7%
			1504	
5939023	5912	Kootenay/Boundary	63	10.1%
5939023	5914	Thompson/Cariboo	562	89.9%
			625	
5941039	5914	Thompson/Cariboo	435	49.4%
5941039	5933	North Shore/Coast Garibaldi	445	50.6%
			880	
5949020	5933	North Shore/Coast Garibaldi	0	0.0%
5949020	5951	Northwest	10	100.0%
			10	
5951053	5951	Northwest	994	90.4%
5951053	5952	Northern Interior	105	9.6%
			1099	
5955040	5952	Northern Interior	171	3.4%
5955040	5953	Northeast	4826	96.6%
			4997	
5957022	5951	Northwest	931	100.0%
5957022	5953	Northeast	0	0.0%
			931	

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