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Spectrum Management and Telecommunications

Service Areas for Competitive Licensing

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Canada 

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Introduction

This document contains descriptions of the service areas that the Department uses for all competitive licensing processes. These processes include spectrum auctions and comparative review processes.

The radio authorization which will be associated with the use of spectrum in these areas is the spectrum licence, which was introduced with the amendment of the *Radiocommunication Act* in June 1996. A spectrum licence is defined as an authorization “in respect of the utilization of specified radio frequencies within a defined geographic area.”

As different wireless services and applications are best suited to different sizes of service areas, four tiers of service areas have been established:

Tier 1 is a single national service area covering the entire territory of Canada.

Tier 2 consists of 14 provincial and large regional service areas covering the entire territory of Canada.

Tier 3 consists of 59 smaller regional service areas covering the entire territory of Canada.

Tier 4 comprises 172 localized service areas covering the entire territory of Canada.

The Tier 4 localized service area boundaries were developed using contiguous groupings of Statistics Canada's 1996 census subdivisions.¹ During development, service area borderlines were placed through lesser populated and more remote areas, wherever possible, in order to minimize potential interference problems. Tier 3 boundaries are based on groupings of Tier 4 localized service areas. Similarly, Tier 2 provincial and large regional service areas are based on groupings of Tier 3 service areas.

Service areas are “translated” into areas based on spectrum grid cells² in order to facilitate their electronic storage and representation. Given that an individual grid cell is only 25 km² in area, spectrum grid cells offer sufficient granularity such that the variations between the borders of the grid-cell defined areas and the underlying census divisions and subdivision(s) will be minute. In the event that any interference issues must be resolved between two licensees, the boundary as defined by the spectrum grid cells will be the one used.

The following pages provide tier service area maps and tables with key data including population data provided by Statistics Canada's 2001 census. Electronic versions of service area maps are provide on Industry Canada's Spectrum Management and Telecommunications web site.³

¹ Census subdivision (CSD) is the general term applying to municipalities or their equivalent. (Ref. Statistics Canada – Cat. No. 92-351-UIE 1996 Census Dictionary – Final Edition)

² Spectrum grid cells are six-sided figures with an area of 25 km² that fit together in an interlocking pattern over the territory of Canada.

³ See http://strategis.ic.gc.ca/epic/internet/insmt-gst.nsf/en/h_sf01627e.html

Tier 1⁴

Service Area Name	Population	Area	Tier 2 Service Areas
Canada	30,007,094	9,755,534	2-01, 2-02, 2-03, 2-04, 2-05, 2-06, 2-07, 2-08, 2-09, 2-10, 2-11, 2-12, 2-13, 2-14

⁴ For all tables in this document, “Population” refers to the population of the service area based on the 2001 Census and “Area” refers to the total area of the service area in square kilometres.

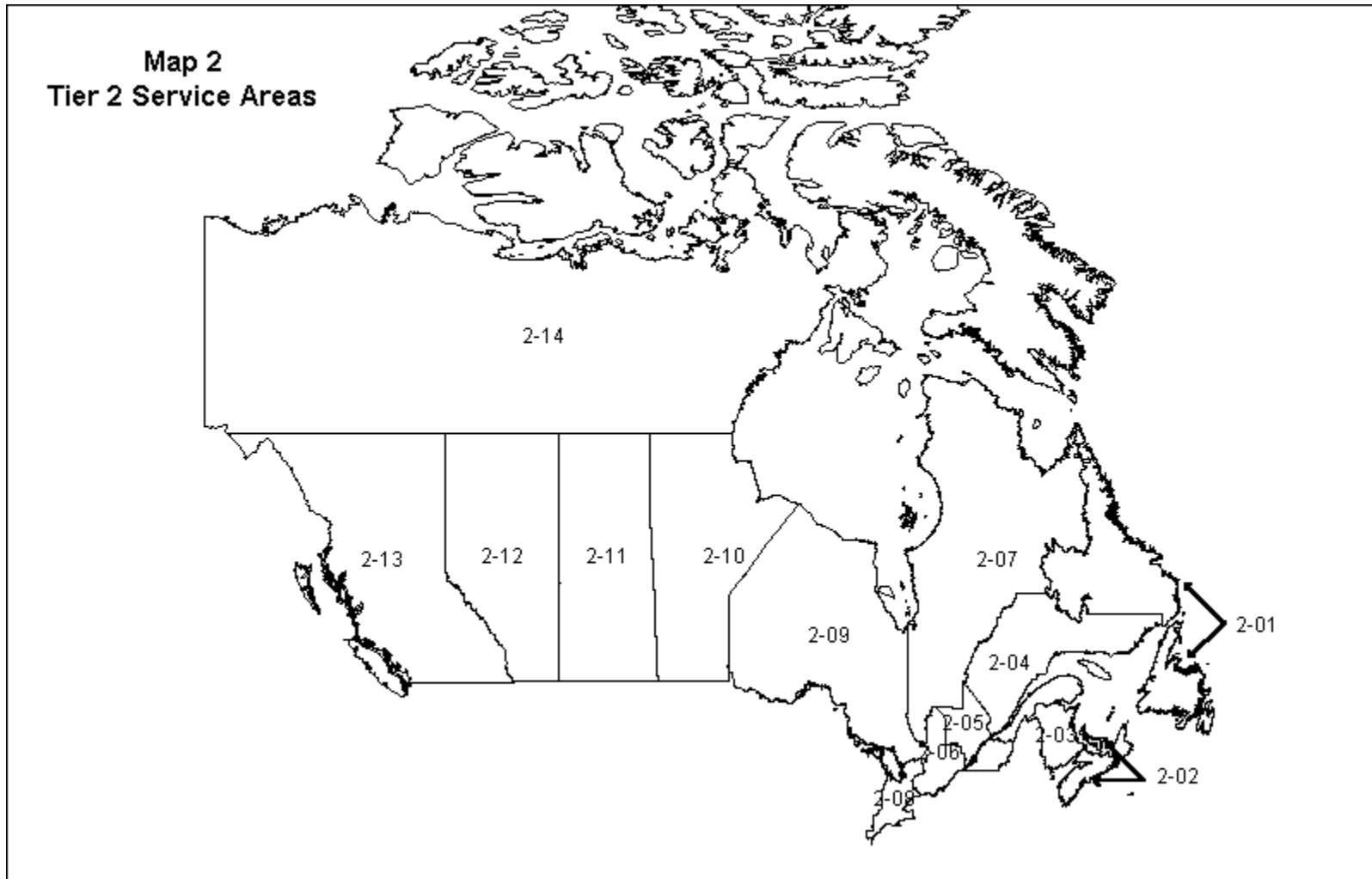
Tier 1: Service Area Map



Tier 2

#	Service Area Name	Population	Area	Tier 3 Service Areas
2-01	Newfoundland & Labrador	513,282	408,770	3-01
2-02	Nova Scotia & Prince Edward Island	1,043,232	61,916	3-02, 3-03, 3-04
2-03	New Brunswick	728,997	73,118	3-05, 3-06, 3-07
2-04	Eastern Quebec	1,590,736	407,517	3-08, 3-09, 3-10
2-05	Southern Quebec	5,151,224	103,542	3-11, 3-12, 3-13, 3-14
2-06	Eastern Ontario & Outaouais	2,122,177	79,988	3-15, 3-16, 3-18, 3-19, 3-20, 3-21, 3-22, 3-23
2-07	Northern Quebec	187,081	959,518	3-17
2-08	Southern Ontario	8,811,117	65,132	3-24, 3-25, 3-26, 3-27, 3-28, 3-29, 3-30, 3-31, 3-32, 3-33
2-09	Northern Ontario	785,481	874,214	3-34, 3-35, 3-36, 3-37, 3-38
2-10	Manitoba	1,118,283	646,936	3-39, 3-40
2-11	Saskatchewan	975,717	649,407	3-41, 3-42, 3-43
2-12	Alberta	2,979,436	660,260	3-44, 3-45, 3-46, 3-47, 3-48, 3-49
2-13	British Columbia	3,907,624	946,461	3-50, 3-51, 3-52, 3-53, 3-54, 3-55, 3-56, 3-57, 3-58
2-14	Yukon, Northwest Territories & Nunavut	92,707	3,818,755	3-59

Tier 2: Service Areas Map



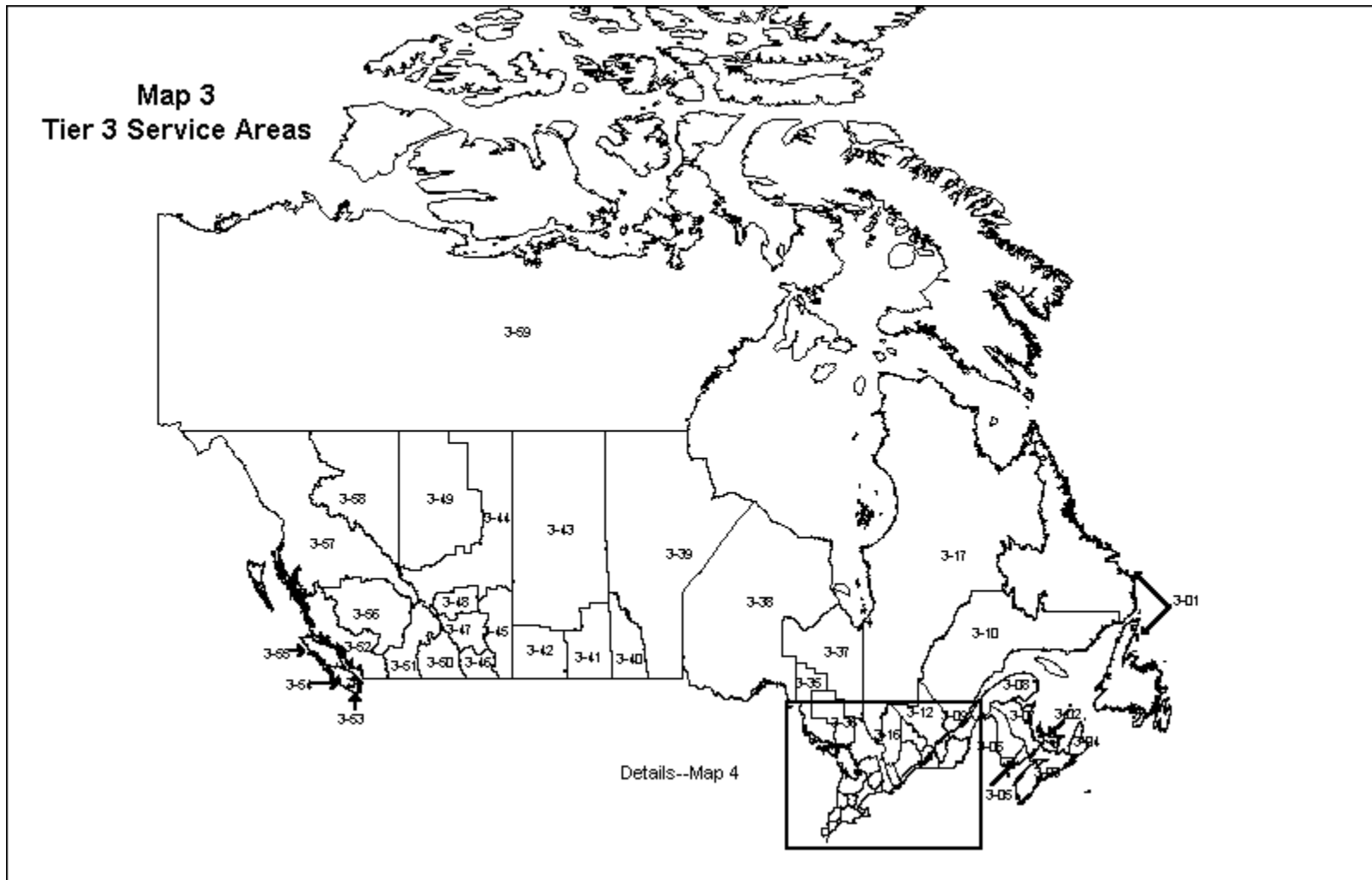
Tier 3

#	Service Area Name	Population	Area	Tier 3 Service Areas
3-01	Newfoundland & Labrador	513,282	408,770	4-001, 4-002, 4-003, 4-004, 4-005
3-02	Prince Edward Island	135,294	5,696	4-006, 4-007
3-03	Mainland Nova Scotia	760,894	44,427	4-008, 4-009, 4-010, 4-011, 4-012, 4-013
3-04	Cape Breton	147,044	11,793	4-014
3-05	Southern New Brunswick	167,343	8,880	4-015, 4-016
3-06	Western New Brunswick	209,227	28,379	4-017, 4-020, 4-021
3-07	Eastern New Brunswick	352,427	35,859	4-018, 4-019, 4-022
3-08	Bas du Fleuve	298,273	51,231	4-023, 4-024, 4-025, 4-026
3-09	Québec	917,873	32,889	4-027, 4-029, 4-030, 4-031
3-10	Chicoutimi-Jonquière	374,590	323,397	4-028, 4-063, 4-064, 4-065
3-11	Eastern Townships	509,717	19,648	4-032, 4-033, 4-034, 4-035, 4-039, 4-040, 4-041, 4-042, 4-043, 4-045
3-12	Trois-Rivières	749,812	59,457	4-036, 4-037, 4-038, 4-044, 4-047, 4-048, 4-049, 4-050
3-13	Montréal	3,784,570	10,845	4-046, 4-051
3-14	Upper Outaouais	107,125	13,592	4-052, 4-054
3-15	Ottawa / Outaouais	1,265,237	19,778	4-053, 4-055
3-16	Pembroke	108,154	33,165	4-056, 4-057
3-17	Abitibi	187,081	959,518	4-058, 4-059, 4-060, 4-061, 4-062, 4-066
3-18	Cornwall	65,921	878	4-067
3-19	Brockville	82,869	2,666	4-068, 4-069
3-20	Kingston	162,711	6,751	4-070
3-21	Belleville	184,594	8,619	4-071, 4-072
3-22	Cobourg	59,699	1,470	4-073
3-23	Peterborough	192,992	6,661	4-074, 4-075
3-24	Huntsville	72,322	10,119	4-076, 4-096
3-25	Toronto	5,635,827	9,304	4-077
3-26	Barrie	591,338	16,990	4-095, 4-078, 4-081, 4-094
3-27	Guelph/Kitchener	607,035	3,288	4-079, 4-080
3-28	Listowel/Goderich/ Stratford	133,987	5,207	4-088, 4-082
3-29	Niagara-St. Catharines	354,971	1,257	4-083, 4-084
3-30	London/Woodstock/ St. Thomas	765,656	9,730	4-085, 4-086, 4-087

Service Areas for Competitive Licensing

#	Service Area Name	Population	Area	Tier 3 Service Areas
3-31	Chatham	107,029	2,637	4-089, 4-091
3-32	Windsor/Leamington	376,213	1,896	4-090
3-33	Strathroy	166,739	4,704	4-092, 4-093
3-34	North Bay	122,253	30,064	4-097, 4-098
3-35	Sault Ste. Marie	135,482	56,855	4-106, 4-099, 4-105
3-36	Sudbury	172,605	45,500	4-100
3-37	Kirkland Lake	120,308	159,505	4-101, 4-102, 4-103
3-38	Thunder Bay	234,833	582,290	4-109, 4-107, 4-108, 4-104
3-39	Winnipeg	945,818	579,067	4-110, 4-111, 4-112, 4-113, 4-115, 4-117, 4-118
3-40	Brandon	172,465	67,869	4-114, 4-116
3-41	Regina	349,538	87,917	4-119, 4-120, 4-123, 4-124
3-42	Moose Jaw	104,297	83,287	4-121, 4-122
3-43	Saskatoon	521,882	478,203	4-127, 4-130, 4-128, 4-126, 4-125
3-44	Edmonton	1,199,124	234,355	4-140, 4-145, 4-146, 4-144, 4-143, 4-142, 4-141, 4-129
3-45	Medicine Hat/Brooks	175,718	69,314	4-131, 4-133, 4-139
3-46	Lethbridge	156,171	28,879	4-132
3-47	Calgary	1,091,673	44,280	4-136, 4-135, 4-134
3-48	Red Deer	198,479	32,736	4-138, 4-137
3-49	Grande Prairie	158,271	250,696	4-148, 4-147
3-50	Kootenays	132,914	51,942	4-149, 4-150
3-51	Okanagan/Columbia	368,647	64,753	4-159, 4-151, 4-163, 4-162
3-52	Vancouver	2,310,047	92,070	4-152, 4-153, 4-157, 4-158
3-53	Victoria	389,247	3,549	4-154
3-54	Nanaimo	165,741	11,314	4-155
3-55	Courtenay	106,015	18,700	4-156
3-56	Thompson/Cariboo	174,289	121,709	4-160, 4-161, 4-164, 4-165
3-57	Prince George	200,007	377,473	4-168, 4-166, 4-167
3-58	Dawson Creek	60,717	204,951	4-169
3-59	Yukon, Northwest Territories & Nunavut	92,707	3,818,755	4-171, 4-172, 4-170

Tier 3: Service Areas Maps



Tier 4

#	Service Area Name	Population	Area
4-001	St. John's	223,381	3,510
4-002	Placentia	19,464	6,430
4-003	Gander/Grand Falls/Windsor	159,526	67,318
4-004	Corner Brook/Stephenville	82,694	33,668
4-005	Labrador	28,217	297,844
4-006	Charlottetown	86,793	3,433
4-007	Summerside	48,501	2,263
4-008	Yarmouth	62,591	7,573
4-009	Bridgewater/Kentville	140,124	11,324
4-010	Halifax	389,095	5,842
4-011	Truro	56,095	5,892
4-012	Amherst	36,091	5,248
4-013	Antigonish/New Glasgow	76,898	8,548
4-014	Sydney	147,044	11,793
4-015	Saint John	140,331	5,306
4-016	St. Stephen	27,012	3,574
4-017	Fredericton	152,324	19,327
4-018	Moncton	151,240	5,626
4-019	Miramichi/Bathurst	169,181	22,226
4-020	Grand Falls	28,529	6,622
4-021	Edmundston	28,374	2,430
4-022	Campbellton	32,006	8,007
4-023	Matane	118,114	33,135
4-024	Mont-Joli	41,770	6,479
4-025	Rimouski	52,049	2,794
4-026	Rivière-du-Loup	86,340	8,823
4-027	La Malbaie	29,403	5,804
4-028	Chicoutimi-Jonquière	217,187	9,273
4-029	Montmagny	59,520	5,521
4-030	Québec	780,745	19,240
4-031	Sainte-Marie	48,205	2,324
4-032	Saint-Georges	67,337	2,938
4-033	Lac Mégantic	24,923	3,182
4-034	Thetford Mines	42,871	2,197
4-035	Plessisville	21,894	994

Service Areas for Competitive Licensing

#	Service Area Name	Population	Area
4-036	La Tuque	16,300	28,266
4-037	Trois-Rivières	252,368	6,035
4-038	Louiseville	22,226	890
4-039	Asbestos	30,204	2,081
4-040	Victoriaville	49,457	822
4-041	Coaticook	13,362	1,111
4-042	Sherbrooke	216,182	4,713
4-043	Windsor	16,443	641
4-044	Drummondville	96,533	1,933
4-045	Cowansville	27,044	969
4-046	Farnham	27,861	921
4-047	Granby	86,541	1,102
4-048	Saint-Hyacinthe	83,957	1,243
4-049	Sorel	55,994	1,035
4-050	Joliette	135,893	18,953
4-051	Montréal	3,756,709	9,924
4-052	Sainte-Agathe-des-Monts	61,197	4,147
4-053	Hawkesbury	62,398	3,255
4-054	Mont-Laurier/Maniwaki	45,928	9,445
4-055	Ottawa/Outaouais	1,202,839	16,523
4-056	Pembroke	77,757	31,144
4-057	Arnprior/Renfrew	30,397	2,021
4-058	Rouyn-Noranda	40,512	5,849
4-059	Notre-Dame-du-Nord	17,427	20,288
4-060	La Sarre	20,272	3,135
4-061	Amos	24,983	8,338
4-062	Val D'Or	43,487	29,443
4-063	Roberval/Saint-Félicien	61,573	97,857
4-064	Baie-Comeau	48,423	87,179
4-065	Port-Cartier/Sept-Îles	47,407	129,088
4-066	Chibougamau	40,400	892,465
4-067	Cornwall	65,921	878
4-068	Brockville	69,968	2,114
4-069	Gananoque	12,901	552
4-070	Kingston	162,711	6,751
4-071	Napanee	39,509	1,887
4-072	Belleville	145,085	6,732

Service Areas for Competitive Licensing

#	Service Area Name	Population	Area
4-073	Cobourg	59,699	1,470
4-074	Peterborough	151,081	5,506
4-075	Lindsay	41,911	1,155
4-076	Minden	17,819	5,420
4-077	Toronto	5,635,827	9,304
4-078	Alliston	99,207	2,346
4-079	Guelph/Kitchener	580,963	2,841
4-080	Fergus	26,072	447
4-081	Kincardine	173,663	10,141
4-082	Listowel/Goderich	84,491	4,268
4-083	Fort Erie	28,451	167
4-084	Niagara-St.Catharines	326,520	1,090
4-085	Haldimand/Dunnville	35,936	979
4-086	London/Woodstock/St. Thomas	607,564	7,611
4-087	Brantford	122,156	1,140
4-088	Stratford	49,496	939
4-089	Chatham	74,209	1,524
4-090	Windsor/Leamington	376,213	1,896
4-091	Wallaceburg	32,820	1,113
4-092	Sarnia	124,825	2,870
4-093	Strathroy	41,914	1,834
4-094	Barrie	274,354	3,883
4-095	Midland	44,114	620
4-096	Gravenhurst/Bracebridge	54,503	4,699
4-097	North Bay	102,831	22,773
4-098	Parry Sound	19,422	7,291
4-099	Elliot Lake	31,261	5,939
4-100	Sudbury	172,605	45,500
4-101	Kirkland Lake	34,740	14,335
4-102	Timmins	43,906	3,166
4-103	Kapuskasing	41,662	142,004
4-104	Kenora/Sioux Lookout	61,920	445,156
4-105	Iron Bridge	22,567	49,634
4-106	Sault Ste. Marie	81,654	1,282
4-107	Marathon	29,468	116,147
4-108	Thunder Bay	121,372	2,379

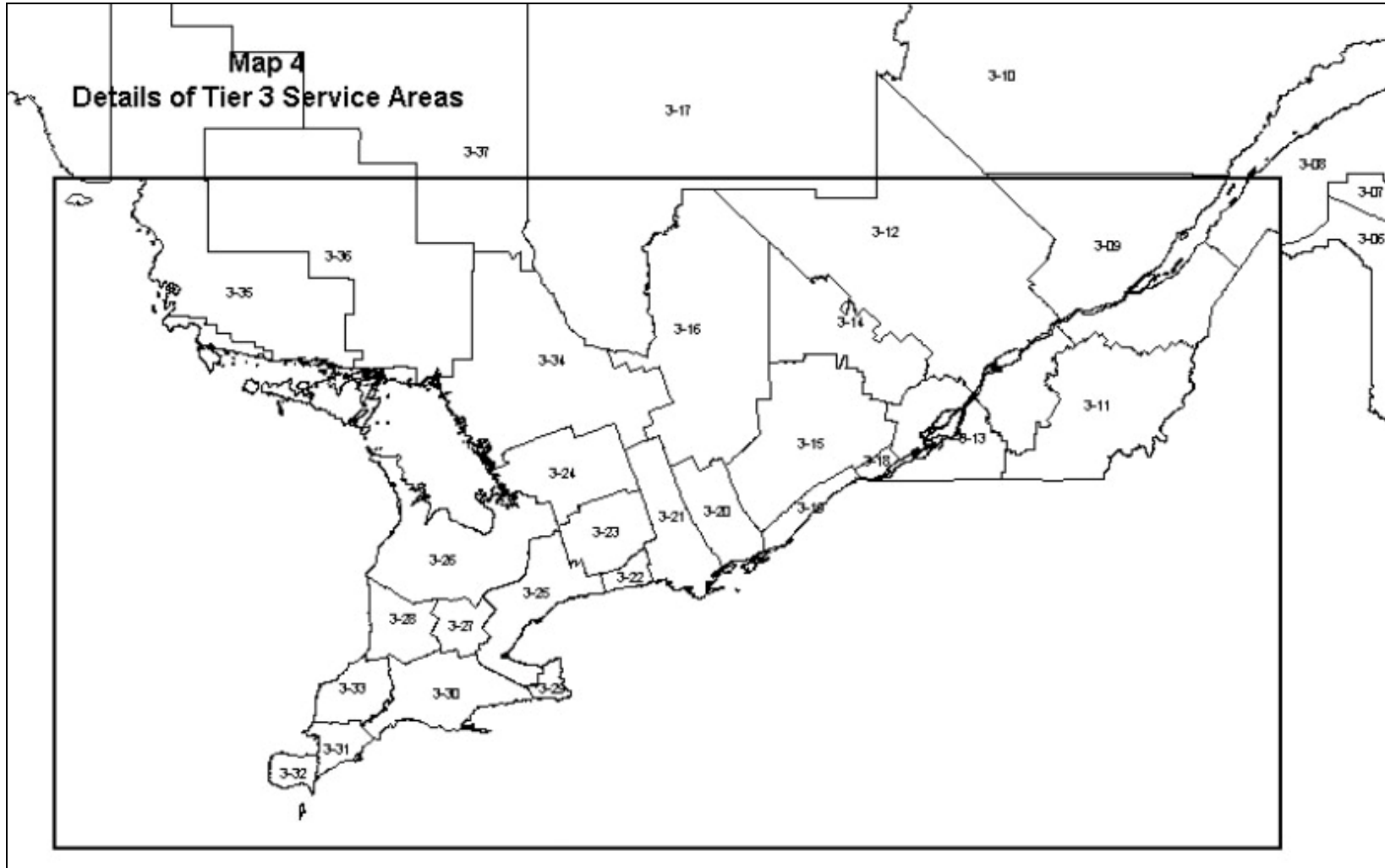
Service Areas for Competitive Licensing

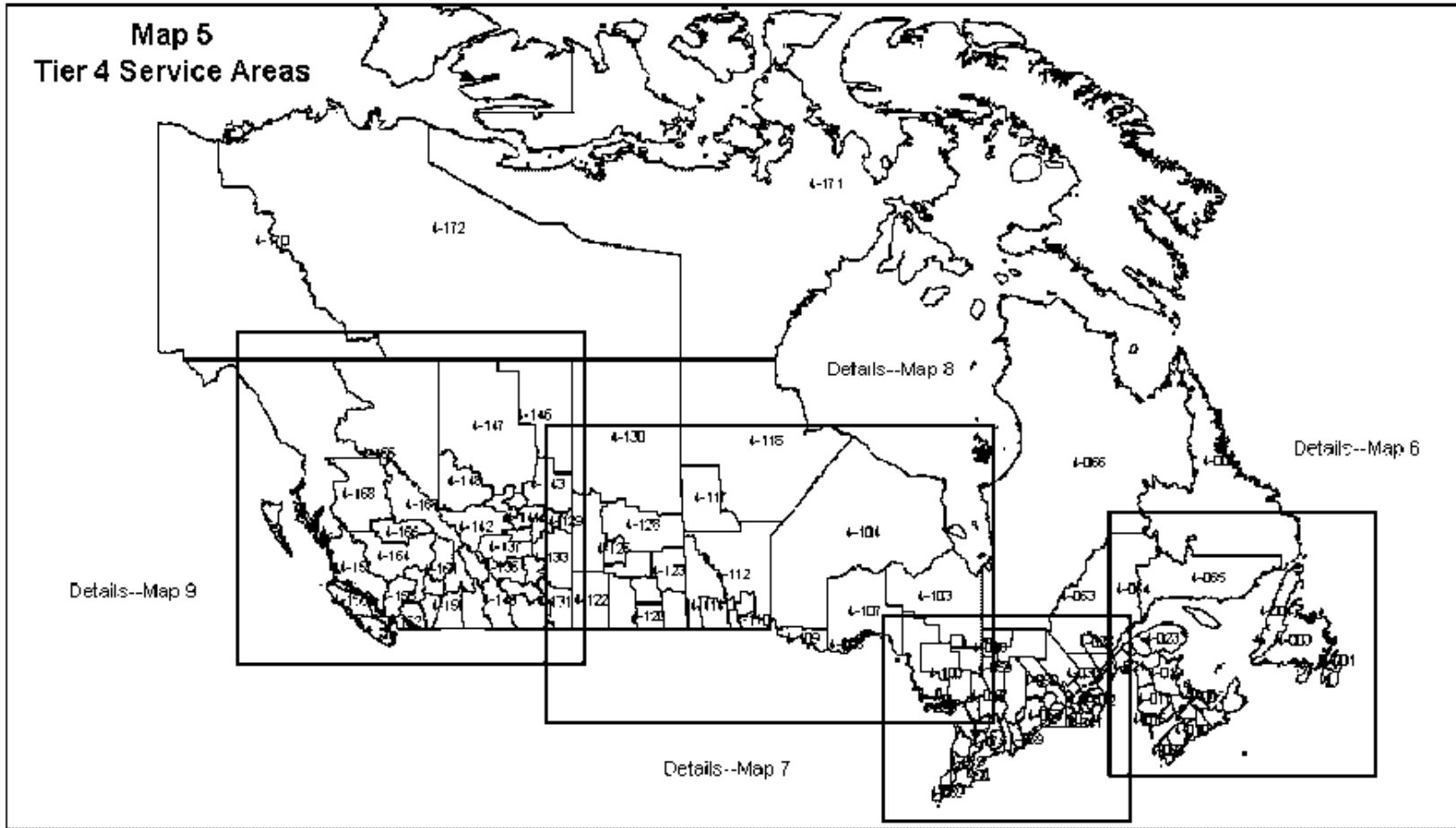
#	Service Area Name	Population	Area
4-109	Fort Frances	22,073	18,608
4-110	Steinbach	45,879	8,641
4-111	Winnipeg	722,206	8,751
4-112	Lac du Bonnet	53,537	114,726
4-113	Morden/Winkler	38,697	4,749
4-114	Brandon	92,736	19,006
4-115	Portage la Prairie	20,073	2,113
4-116	Dauphin	79,729	48,863
4-117	Creighton/Flin Flon	21,360	61,359
4-118	Thompson	44,066	378,728
4-119	Estevan	44,562	22,559
4-120	Weyburn	21,658	17,247
4-121	Moose Jaw	56,844	31,891
4-122	Swift Current	47,453	51,396
4-123	Yorkton	66,760	31,814
4-124	Regina	216,558	16,297
4-125	Saskatoon	237,314	12,271
4-126	Watrous	29,426	20,314
4-127	Battleford	91,099	54,600
4-128	Prince Albert	130,757	71,453
4-129	Lloydminster	30,719	5,758
4-130	Northern Saskatchewan	33,286	319,564
4-131	Medicine Hat/Brooks	89,056	27,174
4-132	Lethbridge	156,171	28,879
4-133	Stettler/Oyen/Wainwright	52,089	42,140
4-134	High River	58,713	14,296
4-135	Strathmore	38,332	10,796
4-136	Calgary	994,628	19,188
4-137	Red Deer	151,548	26,172
4-138	Wetaskiwin/Ponoka	46,931	6,564
4-139	Camrose	34,573	7,250
4-140	Vegreville	14,407	5,770
4-141	Edmonton	943,011	12,515
4-142	Edson/Hinton	45,052	41,339
4-143	Bonnyville	73,729	40,696
4-144	Whitecourt	27,135	10,848
4-145	Barrhead	22,025	5,722

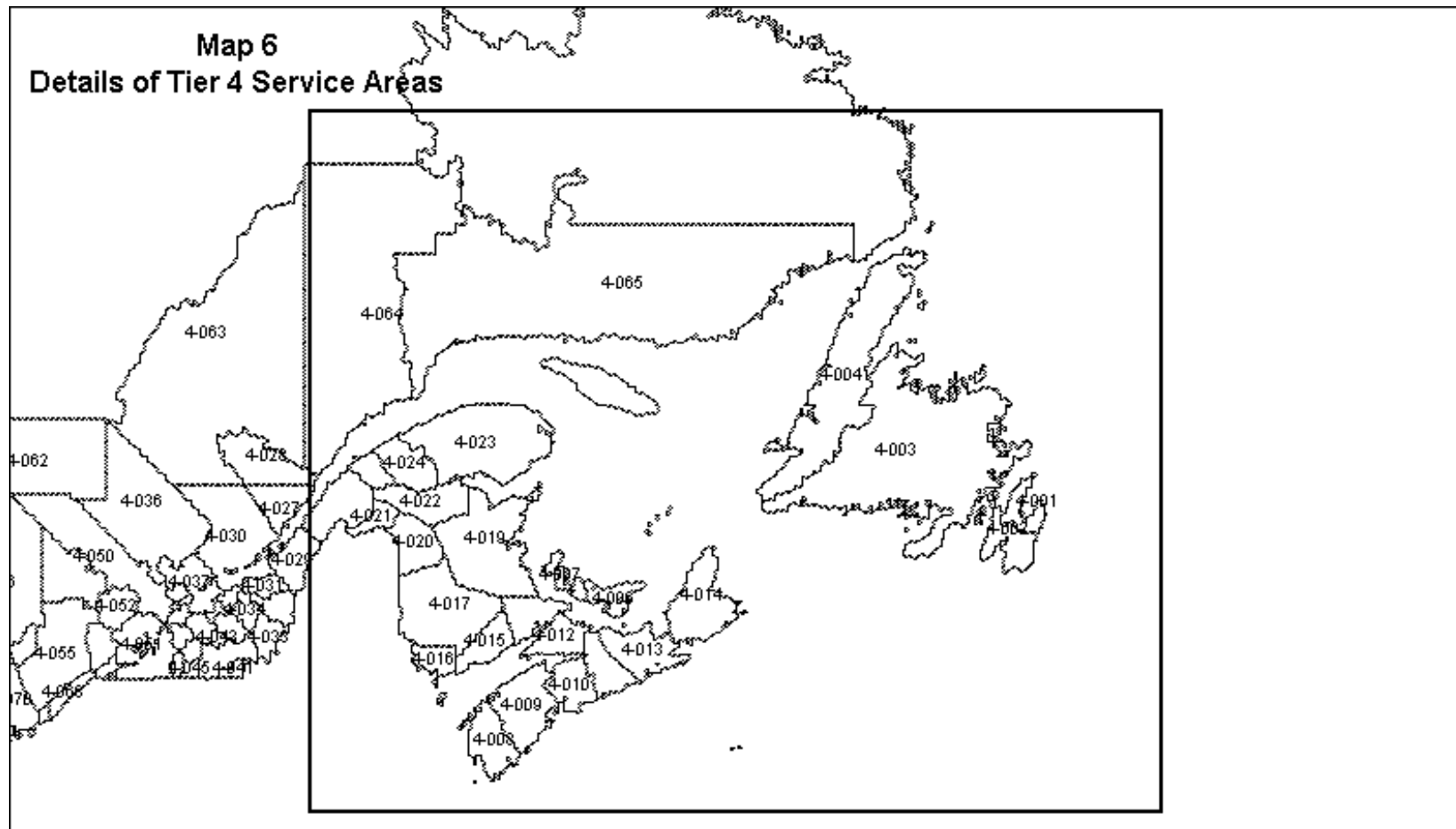
Service Areas for Competitive Licensing

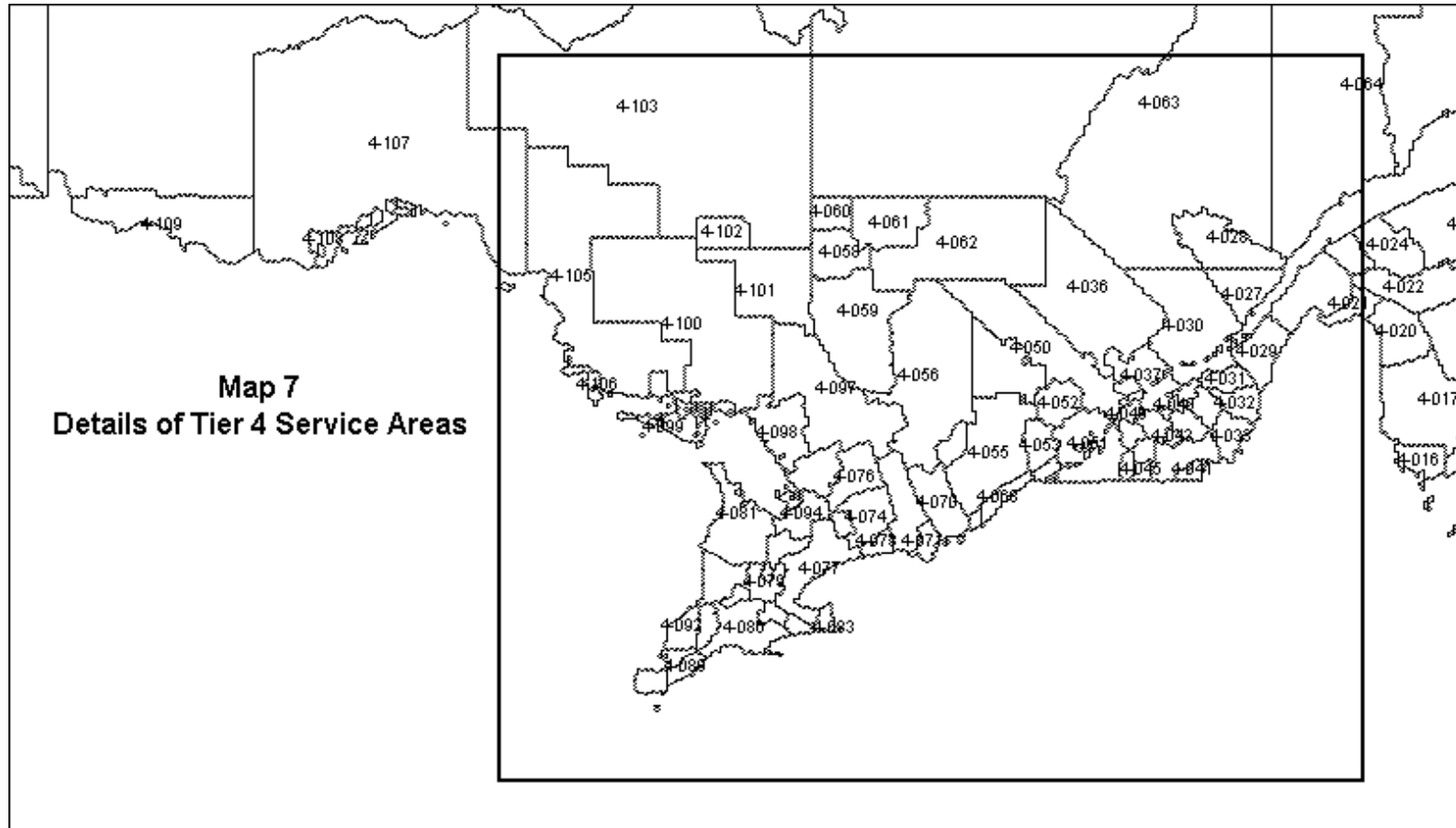
#	Service Area Name	Population	Area
4-146	Fort McMurray	43,046	104,457
4-147	Peace River	82,673	205,252
4-148	Grande Prairie	75,598	45,444
4-149	East Kootenay	56,284	27,721
4-150	West Kootenay	76,630	24,221
4-151	Kelowna	299,947	21,686
4-152	Vancouver	2,201,446	4,122
4-153	Hope	21,930	12,905
4-154	Victoria	389,247	3,549
4-155	Nanaimo	165,741	11,314
4-156	Courtenay	106,015	18,700
4-157	Powell River	26,890	54,301
4-158	Squamish/Whistler	59,781	20,742
4-159	Merritt	15,362	11,386
4-160	Kamloops	92,024	7,375
4-161	Ashcroft	16,503	31,409
4-162	Salmon Arm	46,184	17,907
4-163	Golden	7,154	13,773
4-164	Williams Lake	41,149	58,972
4-165	Quesnel/Red Bluff	24,613	23,953
4-166	Skeena	63,902	248,084
4-167	Prince George	95,335	51,706
4-168	Smithers	40,770	77,683
4-169	Dawson Creek	60,717	204,951
4-170	Yukon	28,674	480,609
4-171	Nunavut	26,745	2,256,864
4-172	Northwest Territories	37,288	1,081,282

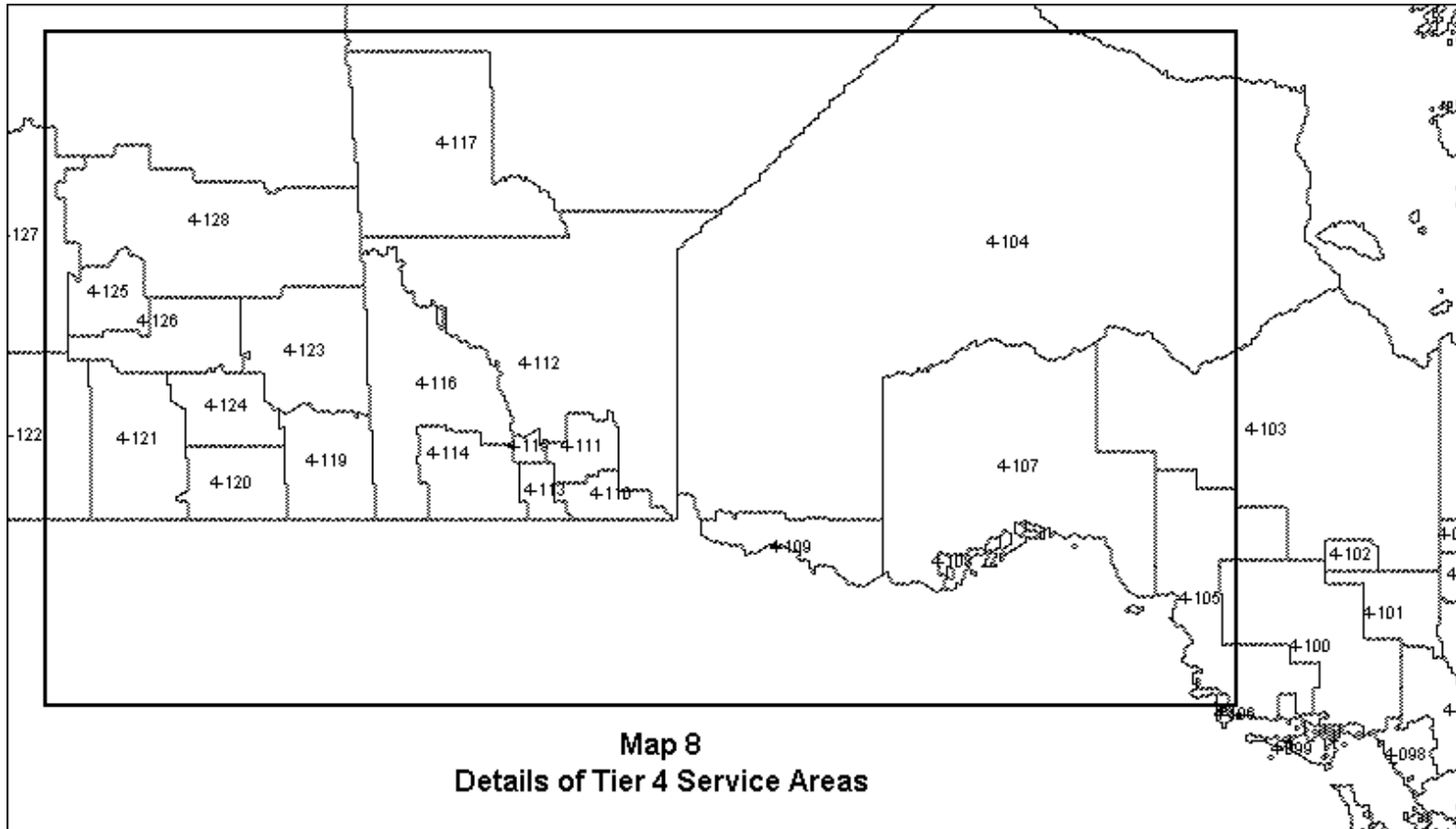
Tier 4: Service Areas Maps

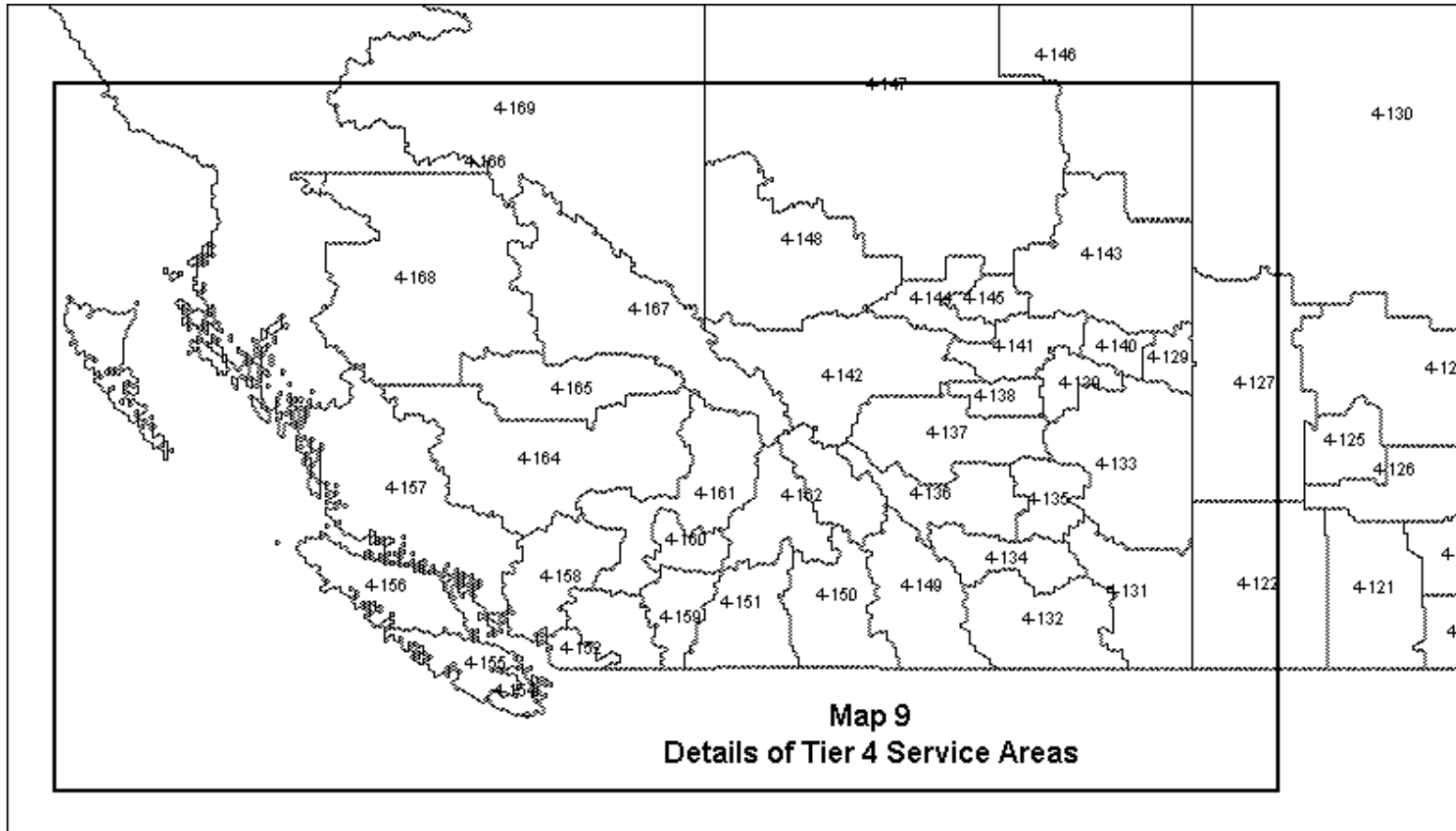










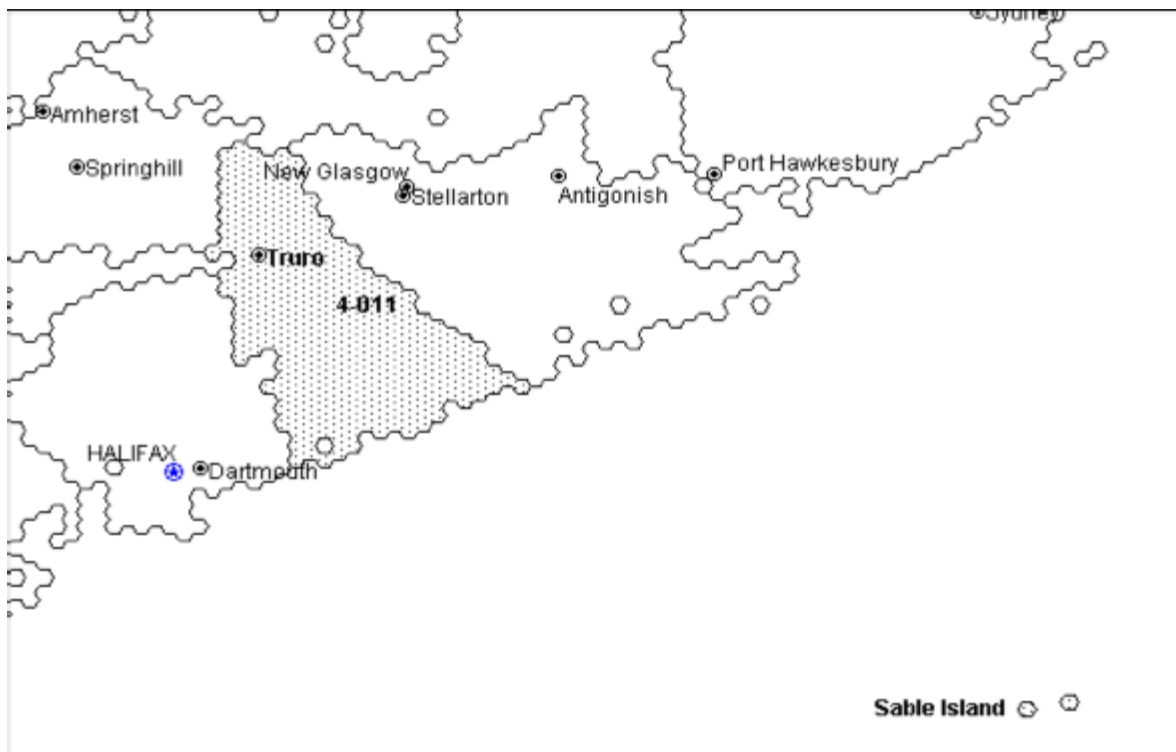


Minor Deviations from the Provincial Borders

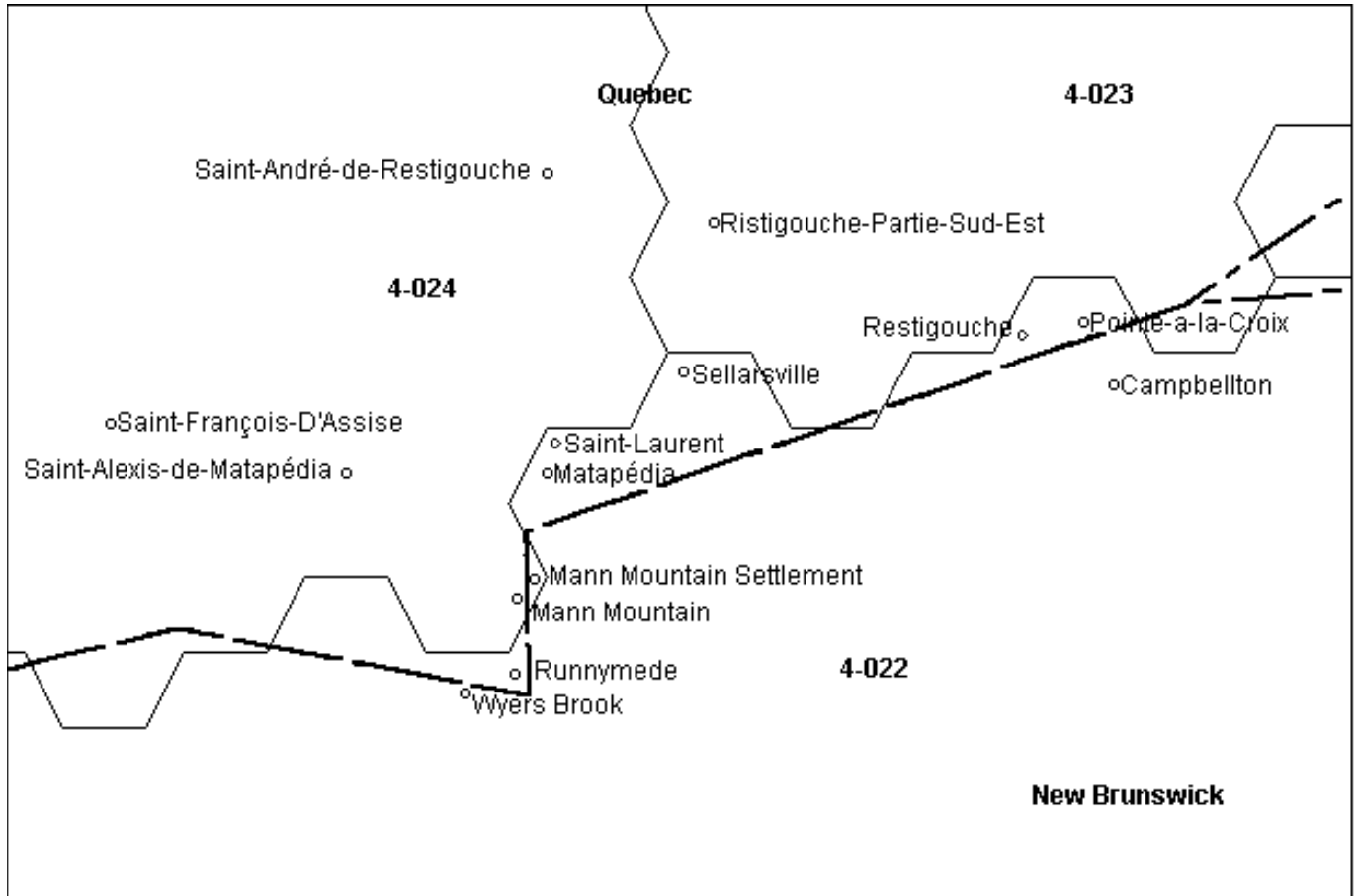
The Tier 4 service area boundaries are based on 1996 Statistics Canada census divisions, and comprise 172 areas covering all of Canada. Some minor deviations are made around provincial borders to reflect certain wireline service areas and also to avoid having a service area boundary cut through a population centre, so as to minimize potential interference problems.

The Tier 4 service area minor deviations from provincial borders are as follows:

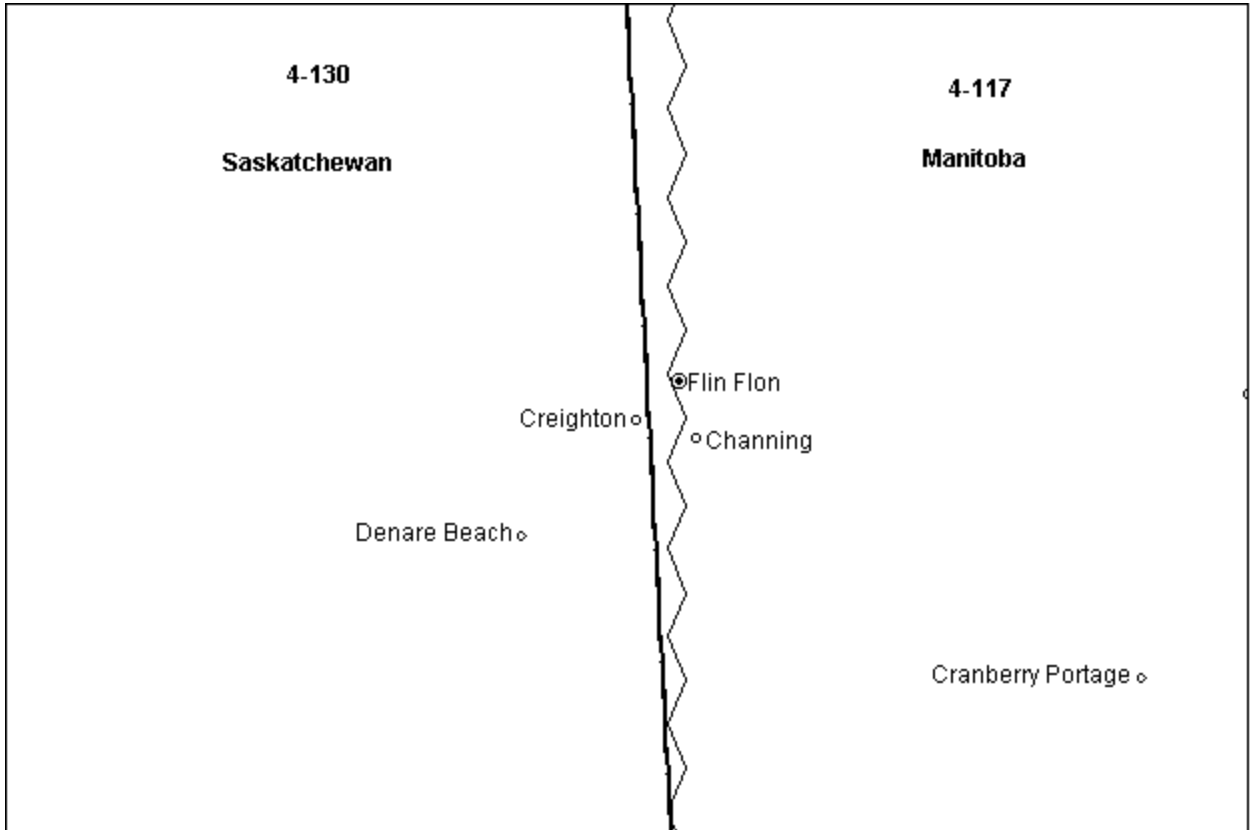
1. Sable Island located off the coast of Nova Scotia is included in service area 4-011 Truro.



2. A portion of the Matapédia census subdivision used to create the service area 4-024 Mont-Joli (Eastern Quebec), has been captured by service area 4-022 Campbellton (New Brunswick). Consequently, the towns of Runnymede, Que., Saint-Laurent, Que. and Sellarsville, Que. are included in service area 4-022 Campbellton (New Brunswick) whereas the towns of Mann Mountain, N.B. and Mann Mountain Settlement, N.B. are included in service area 4-024 Mont-Joli (Eastern Quebec).



3. The towns of Flin Flon, Man. and Channing, Man. are included in service area 4-117 Creighton/Flin Flon. However a rural portion of the Flin Flon census subdivision has been captured by service area 4-130 Northern Saskatchewan.



4. A large rural portion of the Makaoo census subdivision which lies in both Alberta and Saskatchewan is included in service area 4-127 Battleford (Saskatchewan). Onion Lake, Sask. is included in service area 4-129 Lloydminster (Alberta). Also, a large portion of the Lloydminster census subdivision which falls in both Saskatchewan and Alberta has been captured by service area 4-129 Lloydminster (Alberta). Consequently, the town of Lloydminster, Sask. is included in service area 4-129 Lloydminster (Alberta).

