

**Report for January 2012 G-NRUF – Canadian NPAs  
to the  
Canadian Steering Committee on Numbering (CSCN)**

Updated June 7, 2012

Issued by:  
Canadian Numbering Administrator  
SAIC Canada

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## 1. Purpose of G-NRUF

The purpose of the General Numbering Resource Utilization Forecast (G-NRUF) is to provide an annual forecast to aid in projecting Numbering Plan Area (NPA) and North American Numbering Plan (NANP) exhaust. The G-NRUF process requires current and prospective Code Holders to submit actual and forecasted annual data regarding their current and prospective future use of Central Office (CO) Codes to the Canadian Numbering Administrator (CNA) on an annual basis.

The CNA has prepared this report in accordance with the Canadian Numbering Resource Utilization Forecast Guideline (C-NRUF) (the Guideline) approved by the Canadian Radio-television and Telecommunications Commission (CRTC) on 29 September 2010 in Telecom Decision CRTC 2010-724.

Included as attachments to this report are:

- 2012 G-NRUF Aggregate Results
- Quantity of CNA CO Codes as of 1 January 2012
- Historical G-NRUF Graphs for Canadian NPAs
- CSCN Letter dated 25 October 2011 (see section 7)

## 2. High Level Summary

The results from the January 2012 G-NRUF are difficult to compare with the January 2011 G-NRUF results due to four major factors:

- 1) The appearance of some new Telecommunications Service Providers (TSPs) in various Canadian NPAs that had not previously submitted G-NRUF data to the CNA.
- 2) Various TSPs have submitted to the CNA a set of data that is different from the 2011 data. The CNA has verified the input from various TSPs and the variance from previous years' input can be rationalized.
- 3) Telecom Decision CRTC 2004-46, "Trunking arrangements for the interchange of traffic and the point of interconnection between local exchange carriers", which allows for the consolidation of Exchange Areas to form larger Local Interconnection Regions (LIRs).
- 4) Telecom Decision CRTC 2006-28, "Regulatory issues related to the implementation of wireless number portability – Follow-up to Public Notice 2006-3", which requires that Wireless Service Providers (WSPs) obtain CO Codes from which LRNs can be assigned.

The impact of each of the above factors varies from NPA to NPA.

Specific significant changes are listed below:

- NPA 204 Projected Exhaust Date is now forecast for November 2012, which moves the Projected Exhaust Date out by two (2) months from the October 2011 J-NRUF result of

September 2012, primarily as a result of the CO Code conservation measures being utilized. NPA 204 is in a Jeopardy Condition.

- NPAs 250/604/778 Projected Exhaust Date is now forecast for February 2014, which moves the Projected Exhaust Date in by seven (7) months from the July 2011 R-NRUF result of September 2014, primarily as a result of increased forecast demand in the area.
- NPA 306 Projected Exhaust Date is now forecast for May 2013, which moves the Projected Exhaust Date in by four (4) months from the October 2011 J-NRUF result of September 2013, primarily as a result of increased forecast demand in the area. NPA 306 is in a Jeopardy Condition.
- NPAs 416/647 Projected Exhaust Date is now forecast for July 2013, which moves the Projected Exhaust Date in by nine (9) months from the July 2011 R-NRUF result of April 2014, primarily as a result of a change in demand for the area.
- NPA 819 Projected Exhaust Date is now forecast for November 2012, which moves the Projected Exhaust Date out by one (1) month from the October 2011 J-NRUF result of October 2012, primarily as a result of a change in demand for the area. NPA 819 is in a Jeopardy Condition.
- NPA 902 Projected Exhaust Date is now forecast for January 2016, which moves the Projected Exhaust Date in by one (1) year and three (3) months from the July 2011 R-NRUF result of April 2017, primarily as a result of a change in demand for the area.

**NPAs in or entering Relief Planning**

<b>NPA</b>	<b><i>Most recent 2011 (G, R, J) - NRUF View</i></b>	<b>2012 (G ,R, J) – NRUF View</b>	<b>Remarks</b>
204	September 2012	November 2012	In a Jeopardy Condition. Overlay NPA 431. Relief Date November 03, 2012 iaw Telecom Decision CRTC 2010-256.
226 / 519	September 2022	November 2017	In Relief Planning window
250 / 604 / 778	September 2014	February 2014	Overlay NPA 236. Relief Date June 1, 2013 iaw Telecom Decision CRTC 2011-451.
289 / 905	April 2014	July 2014	Overlay NPA 365. Relief Date March 25, 2013 iaw Telecom Decision CRTC 2010-481.
306	September 2013	May 2013	In a Jeopardy Condition. Overlay NPA 639. Relief Date May 25, 2013 iaw Telecom Decision CRTC 2011-533.

January 2012 G-NRUF Report

<b>NPA</b>	<b>Most recent 2011 (G, R, J) - NRUF View</b>	<b>2012 (G, R, J) – NRUF View</b>	<b>Remarks</b>
403 / 587 / 780	August 2020	June 2018	In Relief Planning window
416 / 437 / 647	April 2014	July 2013  September 2018	Overlay NPA 436. Relief Date March 25, 2013 iaw Telecom Decision CRTC 2011-436. In Relief Planning Window
819	October 2012	November 2012	In a Jeopardy Condition. Overlay NPA 873. Relief Date September 15, 2012 iaw Telecom Decision CRTC 2011-432.
902	April 2017	January 2016	In Relief Planning

**3. Current and Past G-NRUF Projected Exhaust Dates**

<b>NPA</b>	<b>LOCATION</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
204	Manitoba	Dec. 2021	Feb.2011	May 2013	Sep. 2012	Nov. 2012
226 / 519	S. Ontario	Apr. 2019	Apr. 2019	Jun. 2021	Sep. 2022	Nov. 2017
249 / 705	N. E. Ontario	Sep. 2014	Oct. 2012	Oct. 2011 Dec. 2027	Dec. 2027	Jun. 2024
250 / 604 / 778	BC	Nov. 2018	Dec. 2019	Jul. 2016 Jul. 2025	Nov. 2014 Aug. 2022 Feb. 2030	Feb. 2014 Feb. 2021 Nov. 2027
289 / 905	Toronto Fringe	Aug. 2014	May 2015 Sep. 2028	Apr. 2014 Sep. 2024	Apr. 2015 Oct. 2027	Jul. 2014 Apr. 2024 Dec. 2033
306	Saskatchewan	Oct. 2023	Oct. 2022	Apr. 2018	May 2013	May 2013
343 / 613	Ottawa area	Aug. 2011	Jul. 2011	Jan. 2011 Feb. 2029	Beyond 2033	Oct. 2025
403 / 587 / 780	Alberta	Nov. 2024	Aug. 2022	Jan. 2020	Aug. 2020 Dec. 2032	Jun. 2018 Jun. 2028
416 / 647	Toronto	Jan. 2017	Oct. 2021	Jul.2015 Jul.2024	May 2015 Dec. 2023 Jul. 2033	Jun. 2013 Sep. 2018 Jun. 2023 Apr. 2028 Jan. 2033
418 / 581	N. E. Quebec	Nov. 2008	Beyond 2031	Beyond 2032	Mar. 2033	Jun. 2027
438 / 514	Montreal	Beyond 2030	Beyond 2031	Sep. 2029	May 2023	Aug. 2021 Jun. 2033
450 / 579	Montreal Fringe	Oct. 2014	Nov. 2010	Dec. 2010 Beyond 2032	Beyond 2033	Nov. 2029
506	New Brunswick	Jan. 2027	Beyond 2031	Beyond 2032	Beyond 2033	Beyond 2034
709	Nfld &	Feb. 2028	Sep. 2030	Beyond	Beyond	Jun. 2033

<b>NPA</b>	<b>LOCATION</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>
	Labrador			2032	2033	
807	N.W. Ontario	Beyond 2030	Beyond 2031	Beyond 2032	Beyond 2033	Beyond 2034
819 / 873	N. E. Quebec	Aug. 2017	Feb. 2015	Mar. 2014	Sep. 2012	Nov. 2012
867	Yukon, NWT, Nunavut	Beyond 2030	Beyond 2031	Beyond 2032	Beyond 2033	Beyond 2034
902	Nova Scotia & PEI	Nov. 2018	Apr. 2019	Feb. 2018	May 2017	Jan. 2016

#### 4. Schedule of Future NRUF Activities in the Current Year

<b>Due Date</b>	<b>NRUF Type</b>	<b>NRUF Format</b>	<b>NPA(s)</b>
Jul. 31	J-NRUF	As determined by RPC	204, 306, 902
Oct. 31	J-NRUF	As determined by RPC	306, 902
Aug. 7	R-NRUF	Format 2	226 / 519
Aug. 7	R-NRUF	Format 2	236 / 250 / 604 / 778
Aug. 7	R-NRUF	Format 2	289 / 365 / 905
Aug. 7	R-NRUF	Format 2	403 / 587 / 780
Aug. 7	R-NRUF	Format 2	416 / 437 / 647

#### 5. Summary of Challenges Encountered during the G-NRUF Process

- a) TSPs confuse the differences between a G-NRUF, an R-NRUF, a J-NRUF and the Reserved and Held Report requirements.
- b) Some companies had problems<sup>1</sup> with completion of the NRUF forms, submitted the inappropriate form, or missed submission of a form.
- c) Numerous companies failed to submit explanations for significant changes in their forecasts from previous submissions.
- d) Some companies continued to submit revisions up to March 27, 2012.

#### 6. Potential Solutions Identified by the CNA to Address G-NRUF Process Issues

- a) There appears to be no serious negative consequence set out for companies that do not forecast accurately. There should be an inducement for the companies to report as accurately as possible, once and on time, to ensure that the NRUF results are meaningful and timely.

<sup>1</sup> Not including companies that did not follow submission instructions.

- b) The CSCN should strive to increase the participation of TSPs in its activities, such that they are more conversant with the significance of various numbering requirements (e.g., the G-NRUF process, Reserved and Held reports).
- c) The C-NRUF Guideline establishes the G-NRUF due date, documented discussions take place at the CSCN, and the CNA sends out two requests a month apart, which should be sufficient warning that annual G-NRUF data will be due by a date certain.

## **7. G–NRUF Assumptions**

See the attached CSCN letter dated October 25, 2011.

## **8. Conclusion**

In accordance with Section 4, Item 6 h) of the Canadian Numbering Resource Utilization Forecast (C–NRUF) Guideline, the CNA has conducted an assessment, at a total aggregate level, to determine whether the 2012 NRUF results are reasonable and the Projected Exhaust Dates for all NPAs are realistic based upon the data submitted by TSPs and the direction provided by the CSCN on October 25, 2011.

The CNA notes that the Canadian telecommunications environment continues to go through a period of significant change due to competition in local exchange and wireless markets.

The results from the 2012 NRUF are difficult to compare with the 2011 G-, R- and J -NRUF results as most TSPs have submitted a set of data to the CNA that is different from the 2011 data. In addition, there are several new Carriers entering the Canadian market.

TSPs have modified their market entry and expansion plans as their market and competitive experience affects their business results.

It is noteworthy that forecasts have generally showed an increase in demand even though more stringent practices were adopted by the CNA with respect to requiring current and potential CO Code Holders to justify the variances in their forecasts in accordance with section 4, item 7 of the Guideline.

As we move forward into the remainder of 2012 the CNA is concerned that there is still potential for volatility in demand for numbering resources due in part to several changes in the regulatory regime over the past few years. The appearance of several new Wireless Service Providers and Local Exchange Carriers may have an unforeseen impact on demand that is difficult to predict. Additionally, LTE/4G and CLEC growth has been responsible for a good part of the demand however there is also the issue of machine-to-machine market demands. With machine-to-machine's potential to touch so many areas of life, including health care, transportation, security and energy, the potential for increased demand in CO Codes is not easy to quantify.

Based on this assessment, in the CNA's opinion, the G-NRUF results for this year appear reasonable and the Projected Exhaust Dates for Canadian NPAs are generally realistic.

## January 2012 G–NRUF Aggregate Results

As of January 1																							
<b>NPA / Years</b>	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
204-431-V1	708	860	947	968	987	1002	1023	1056	1089	1122	1155	1188	1221	1254	1287	1320	1353	1386	1419	1452	1485	1518	1551
204-431-V2	708	871	961	986	1007	1022	1042	1077	1112	1147	1182	1217	1252	1287	1322	1357	1392	1427	1462	1497	1532	1567	1602
226-519	1148	1275	1351	1430	1488	1553	1606	1697	1764	1831	1898	1965	2032	2099	2166	2233	2300	2367	2455	2522	2589	2656	2723
249-705	771	847	912	974	1075	1120	1166	1233	1300	1367	1434	1501	1568	1671	1738	1805	1872	1939	2006	2073	2140	2207	2274
236-250-604-778	2052	2261	2381	2518	2635	2755	2839	2954	3069	3184	3320	3435	3550	3665	3780	3895	4033	4148	4263	4378	4493	4608	4723
289-365-905	1357	1478	1558	1649	1725	1805	1894	1974	2054	2134	2214	2294	2374	2485	2565	2645	2725	2805	2885	2965	3045	3125	3205
306-639-V1	730	777	851	863	870	880	886	906	926	946	966	986	1006	1026	1046	1066	1086	1106	1126	1146	1166	1186	1206
306-639-V2	730	790	855	866	873	883	891	910	929	948	967	986	1005	1024	1043	1062	1081	1100	1119	1138	1157	1176	1195
343-613	848	894	960	1015	1069	1126	1169	1224	1279	1334	1389	1444	1499	1554	1647	1702	1757	1812	1867	1922	1977	2032	2087
403-587-780	1842	1976	2057	2132	2207	2285	2365	2465	2543	2621	2699	2777	2855	2933	3011	3089	3167	3272	3350	3428	3506	3584	3662
416-437-647	1319	1508	1677	1832	1990	2152	2295	2482	2643	2804	2965	3126	3313	3474	3635	3796	3957	4144	4305	4466	4627	4788	4949
418-581	982	1048	1104	1147	1182	1223	1236	1274	1312	1350	1388	1426	1464	1502	1540	1578	1645	1683	1721	1759	1797	1835	1873
438-514	951	1042	1112	1180	1240	1300	1364	1429	1494	1559	1656	1721	1786	1851	1916	1981	2046	2111	2176	2241	2306	2371	2459
450-579	847	906	971	1020	1058	1089	1114	1155	1196	1237	1278	1319	1360	1401	1442	1483	1524	1565	1642	1683	1724	1765	1806
506	438	457	474	490	507	522	537	553	569	585	601	617	633	649	665	681	697	713	729	745	761	777	793
709	497	516	534	549	561	573	584	598	612	626	640	654	668	682	696	710	724	738	752	766	780	794	835
807	211	216	226	232	237	240	246	252	258	264	270	276	282	288	294	300	306	312	318	324	330	336	342
819-873-V1	740	858	891	897	921	934	956	979	1002	1025	1048	1071	1094	1117	1140	1163	1186	1209	1232	1255	1278	1301	1324
819-873-V2	740	859	892	898	922	935	957	980	1003	1026	1049	1072	1095	1118	1141	1164	1187	1210	1233	1256	1279	1302	1325
867	155	168	174	183	191	197	204	213	222	231	240	249	258	267	276	285	294	303	312	321	330	339	348
902	662	724	748	779	799	835	856	879	902	925	948	971	994	1017	1040	1063	1086	1109	1132	1155	1178	1201	1224
<b>NPA / Years</b>	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034

## January 2012 G-NRUF Aggregate Results

NPA / Years	2007			2008			2009			2010			2011			5 Year
	Actual	Forecast	Delta	Actual	Forecast	Delta	Actual	Forecast	Delta	Actual	Forecast	Delta	Actual	Forecast	Delta	Average
<b>204-431</b>	22	34	64.7%	48	19	252.6%	24	84	28.6%	55	81	67.9%	28	87	32.2%	74.3%
<b>226-519</b>	95	77	123.4%	80	129	62.0%	57	142	40.1%	58	64	90.6%	70	105	66.7%	63.8%
<b>249-705</b>	53	112	47.3%	45	69	65.2%	63	97	64.9%	35	69	50.7%	35	60	58.3%	47.8%
<b>250</b>	96	85	112.9%	N/A												112.9%
<b>250-236-604-778</b>	N/A			119	113	105.3%	67	87	77.0%	140	115	121.7%	98	137	71.5%	75.1%
<b>289-365-905</b>	118	187	63.1%	84	161	52.2%	49	122	40.2%	66	108	61.1%	61	87	70.1%	47.8%
<b>306-639</b>	23	28	82.1%	34	27	125.9%	10	20	50.0%	97	19	510.5%	7	41	17.1%	130.9%
<b>343-613</b>	51	95	53.7%	55	95	57.9%	36	58	62.1%	56	77	72.7%	36	57	63.2%	51.6%
<b>403</b>	76	80	95.0%	N/A												95.0%
<b>403-587-780</b>				120	180	66.7%	76	128	59.4%	129	75	172.0%	107	120	89.2%	77.4%
<b>416-437-647</b>	36	61	59.0%	45	64	70.3%	45	42	107.1%	87	73	119.2%	106	92	115.2%	78.5%
<b>418-581</b>	94	97	96.9%	66	44	150.0%	38	39	97.4%	53	39	135.9%	64	67	95.5%	96.0%
<b>438-514</b>	29	54	53.7%	52	41	126.8%	42	34	123.5%	42	37	113.5%	59	74	79.7%	82.9%
<b>450-579</b>	17	44	38.6%	58	79	73.4%	19	66	28.8%	66	93	71.0%	34	52	65.4%	46.2%
<b>506</b>	54	37	145.9%	18	33	54.5%	20	42	47.6%	14	32	43.8%	14	28	50.0%	57.0%
<b>604</b>	59	15	393.3%	N/A												393.3%
<b>709</b>	33	64	51.6%	14	25	56.0%	61	98	62.2%	48	67	71.6%	14	27	51.9%	48.9%
<b>778</b>	32	58	55.2%	N/A												55.2%
<b>780</b>	94	114	82.5%	N/A												82.5%
<b>807</b>	6	6	100.0%	9	6	150.0%	1	9	11.1%	17	16	106.3%	2	6	33.3%	66.8%
<b>819-873</b>	24	34	70.6%	53	63	84.1%	29	50	58.0%	35	36	97.2%	30	55	54.5%	60.7%
<b>867</b>	0	-30	0.0%	3	-28	-10.7%	0	1	0.0%	1	2	50.0%	1	3	33.3%	12.1%
<b>902</b>	16	45	35.6%	19	28	67.9%	8	38	21.1%	23	37	62.2%	42	63	66.7%	42.2%
			86.9%			92.0%			60.8%			115.1%			67.4%	
<b>Notes:</b>	Actual is based on Part 1 application date.															
	Forecast is from G-NRUF submissions, ignoring CNA codes.															
	Delta is Actual/Forecast.															

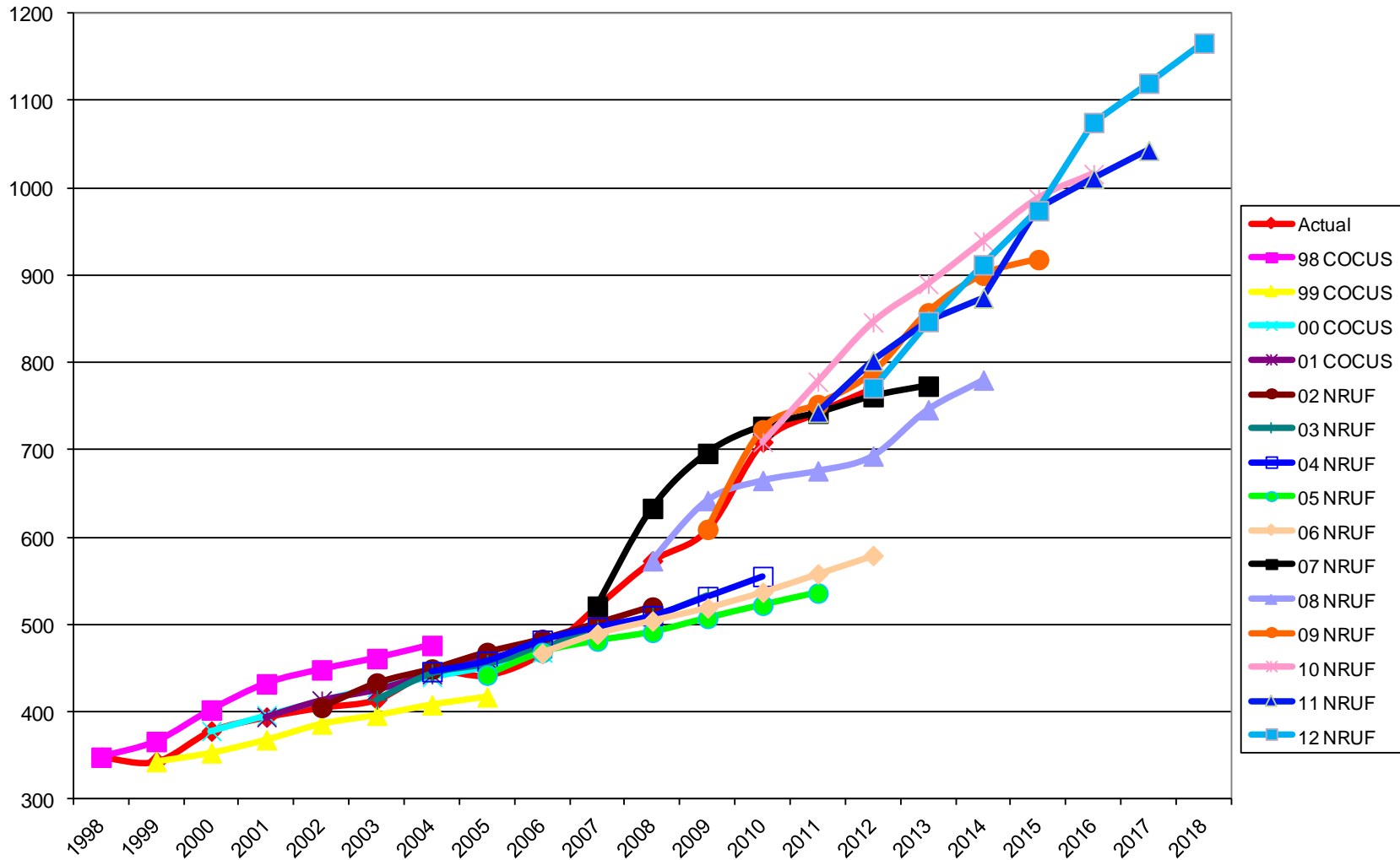


## January 2012 G-NRUF Aggregate Results

January 1, 2012																		
NPAs	204-431	226-519	249-705	236-250-604-778	289-365-905	306-639	343-613	403-587-780	416-437-647	418-581	438-514	450-579	506	709	807	819-873	867	902
New Entrants iaw PNs/NOCs/ Decisions			10	10	15	11	15		10			9				10		
Initial Code iaw PNs/NOCs/ Decisions			7	7	7		10		7	0		7				4		
Protected	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N11 Service Codes	8	16	16	24	16	8	16	24	16	16	16	16	8	8	8	8	8	8
Special Use Codes (555, 950 & 976)	3	5	5	9	6	3	5	9	5	5	5	6	3	3	2	2	3	3
Industry Plant Test Codes	1	4	4	6	4	2	4	6	4	4	4	4	2	2	2	2	2	2
Home NPAs NXX Codes	1	4	4	8	4	1	4	9	4	4	4	4	1	1	1	1	1	1
Neighbour NPAs NXX Codes	1	4	18	0	16	0	16	2	2	4	4	8	3	3	4	9	6	1
Future NPAs NXX Codes	5	8	18	5	10	0	22	3	14	18	18	28	10	10	16	10	22	3
Limited Availability (USA 7D Problem)	0	0	0	0	0	0	2	0	0	0	0	0	1	0	1	2	0	0
911 Misdial Codes (912, 914 & 915)	3	0	0	0	0	0	0	0	0	0	0	0	3	3	3	0	3	3
Special 7 Digit Dialing Codes (310, 610 & 810)	2	5	5	7	5	2	5	7	5	5	5	5	2	2	2	2	3	2
Relief NPA	1	0	0	0	2	1	0	0	1	0	0	0	0	0	0	1	0	0
Unforecasted Demand	3	5	0	0	0	0	0	7	0	3	6	0	3	2	2	0	2	3
<b>Total</b>	<b>28</b>	<b>51</b>	<b>87</b>	<b>79</b>	<b>85</b>	<b>28</b>	<b>99</b>	<b>67</b>	<b>68</b>	<b>59</b>	<b>62</b>	<b>87</b>	<b>36</b>	<b>34</b>	<b>41</b>	<b>51</b>	<b>50</b>	<b>26</b>

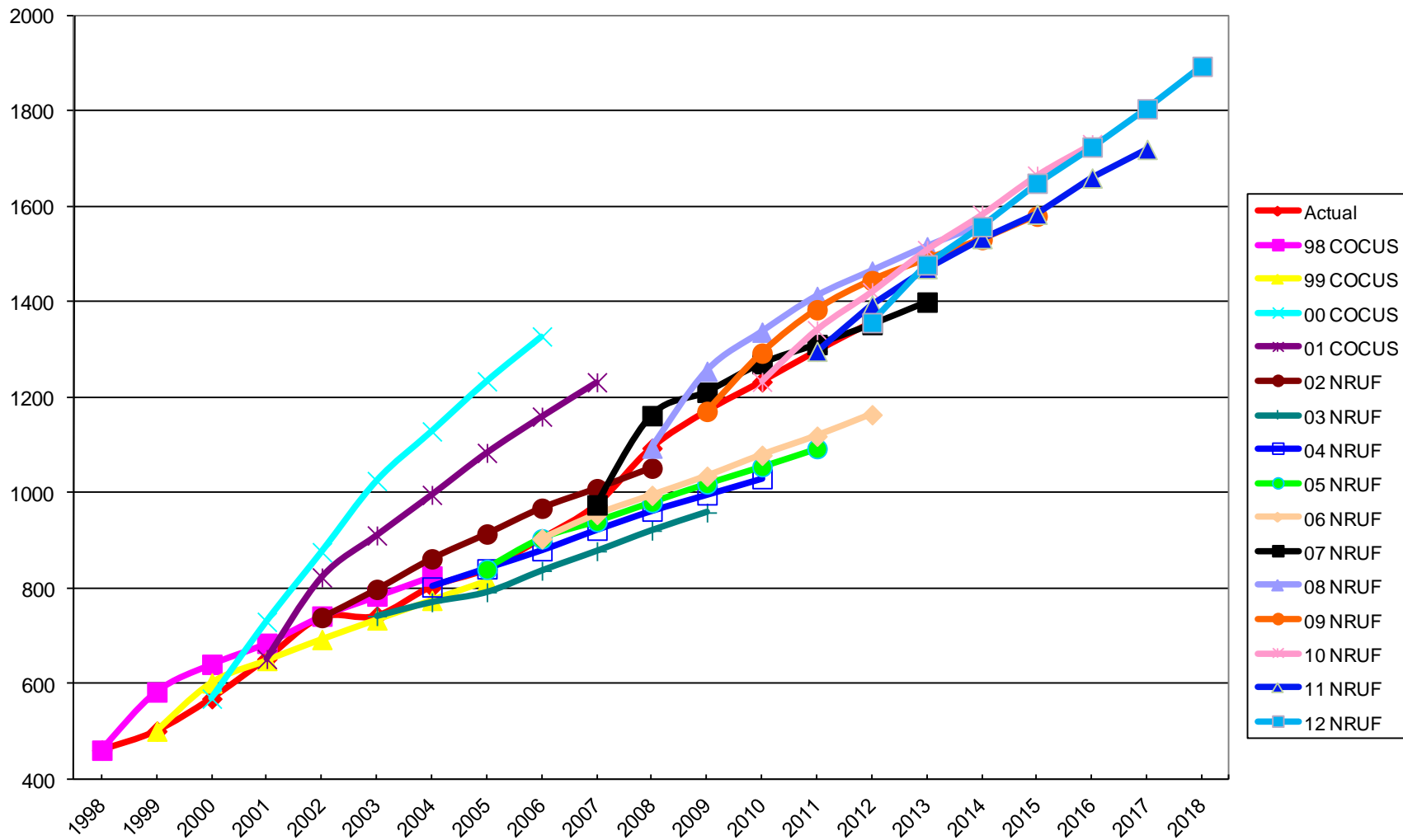


NPA249-705 Ontario





NPA 289-365-905 Ontario









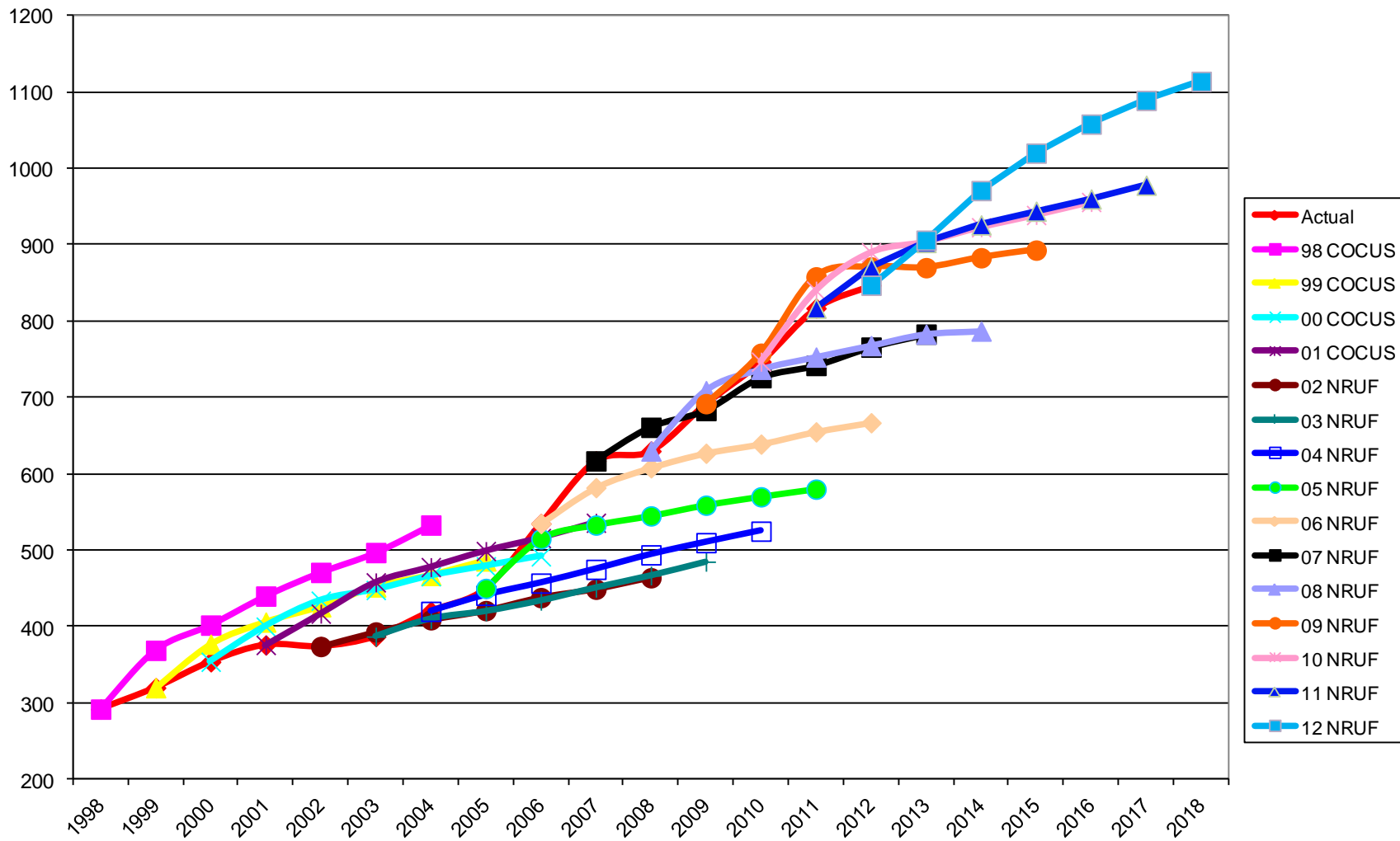






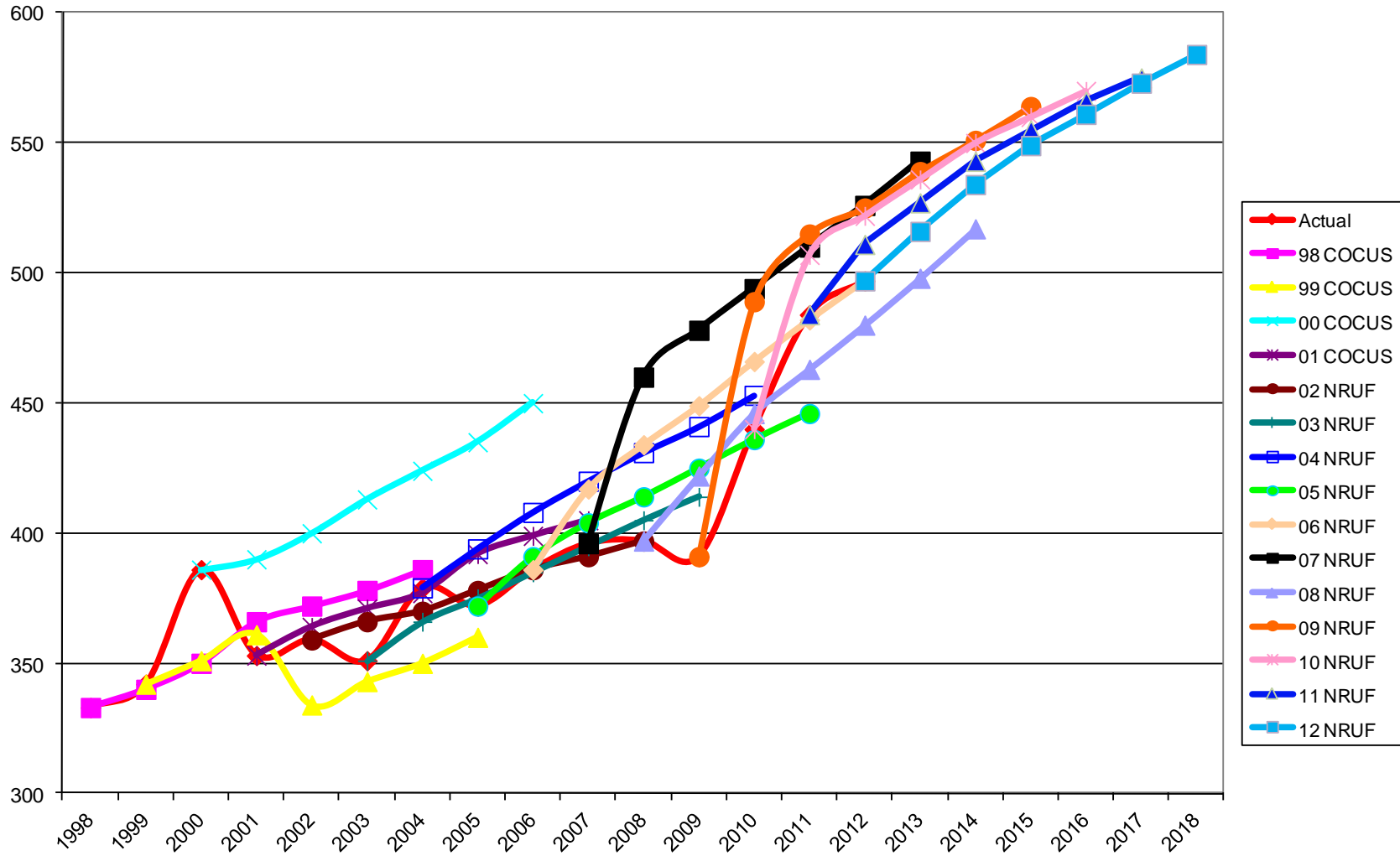


NPA 450-579 Quebec

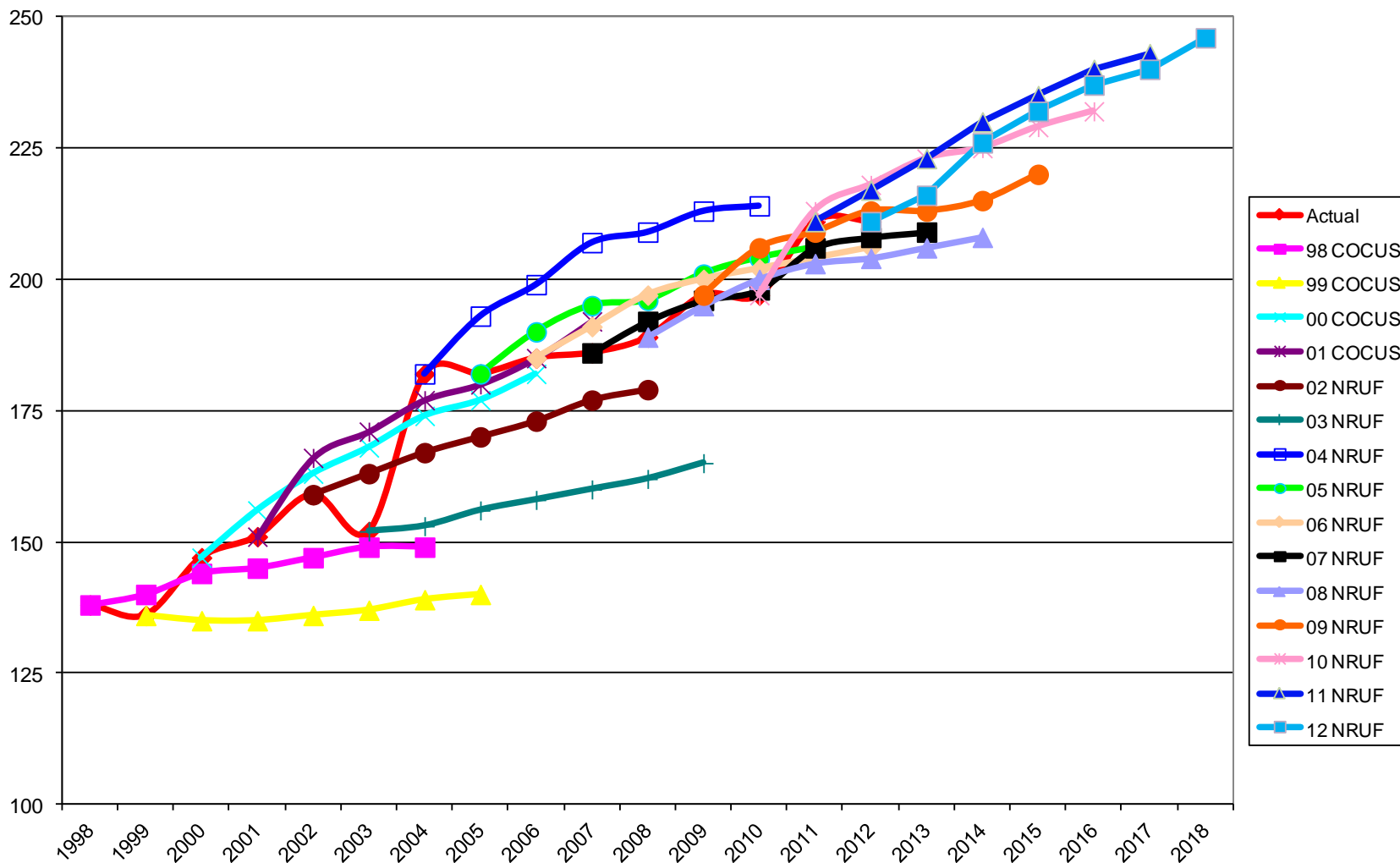




**NPA709 Newfoundland and Labrador**



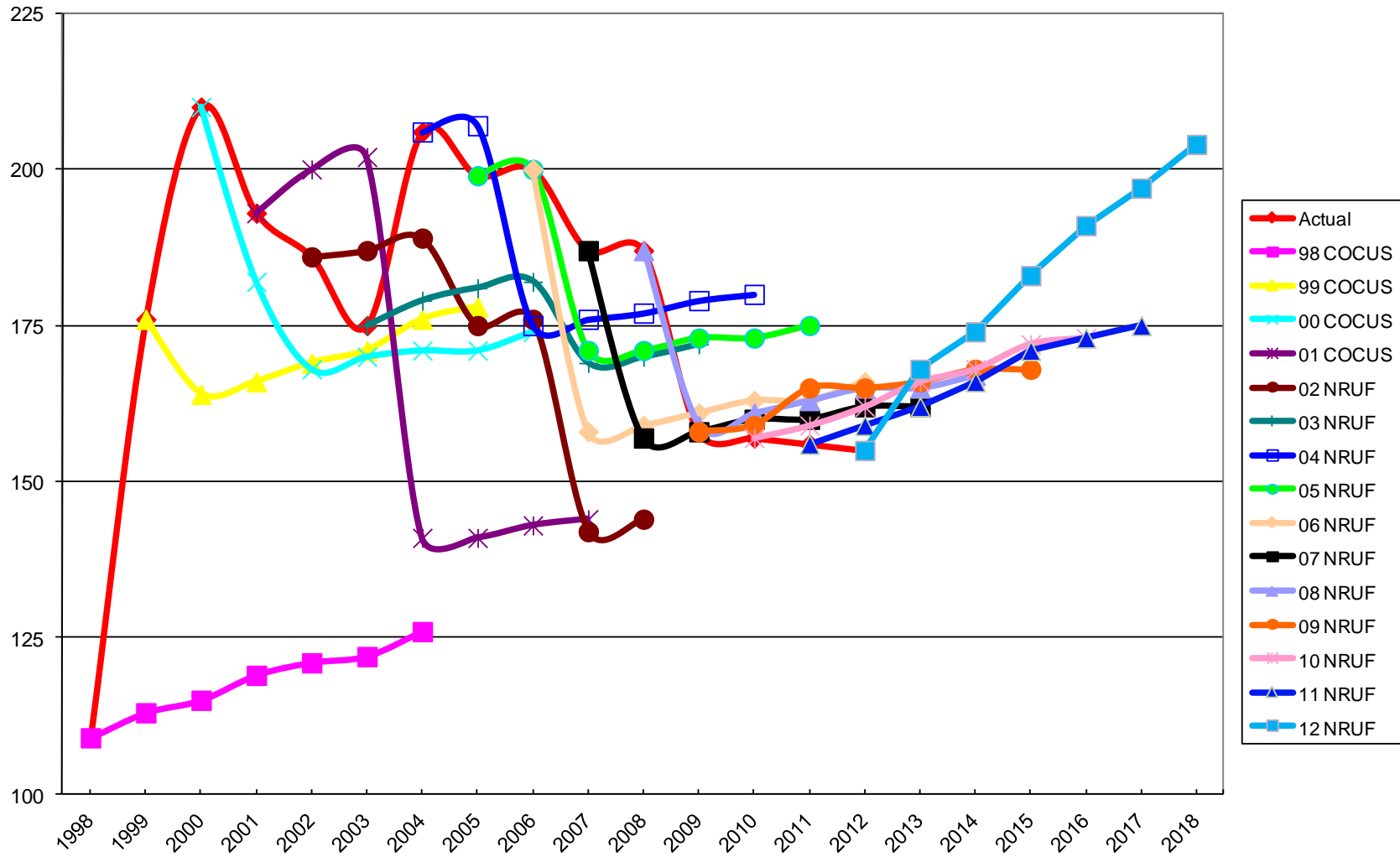
**NPA807 Ontario**







**NPA 867 Northwest Territories-Nunavut-Yukon**





# CSCN

## Canadian Steering Committee on Numbering

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October 25, 2011

**TRANSMITTED ELECTRONICALLY**

Glenn Pilley  
Director  
Canadian Numbering Administrator (CNA)  
SAIC Canada  
60 Queen Street, Suite 1516  
Ottawa, Ontario K1P 5Y7

**Subject: CSCN Direction to Canadian Numbering Administrator (CNA) re the 2012 Numbering Resource Utilization Forecast (2012 NRUF) Methodology and Assumptions**

On October 25, 2011, the Canadian Steering Committee on Numbering (CSCN) discussed and agreed to the direction for the CNA with respect to the 2012 NRUF Methodology and Assumptions.

The attached document contains the direction titled "CSCN Direction to CNA re the 2012 NRUF Methodology and Assumptions, October 25, 2011".

Sincerely,

***Original signed by***

Glenn Pilley  
CSCN Chair

c.c.: Bill Mason - CRTC  
Jeanne Lacombe - CRTC  
CSCN

Attachment

CSCN Direction to CNA re the 2012 NRUF Methodology and Assumptions  
October 25, 2011

**The CSCN submits the following methodology and assumptions to the CNA for the 2012 G–NRUF.**

1. If there is a discrepancy between the CNA records and those submitted by the CO Code Holder with respect to the quantities of actual CO Codes assigned and reserved as of January 1, 2012, the CNA will attempt to rectify the discrepancy. However, if the discrepancy cannot be resolved, the quantity of CO Codes appearing in the CNA's records will be used. The CO Code Holder and the CNA should attempt to resolve the discrepancy before the next NRUF is conducted.

This problem has generally occurred when a CO Code:

- is still “being recovered” (i.e., a Part 3 Form has not been issued but the CO Code Holder believes the CNA has recovered the CO Code);
  - is a Plant Test code (i.e., legacy, NPA Relief, industry plant test codes and Appendix D temporary plant test codes); or
  - has been assigned and a Part 4 Form has not been received. In the past some CO Code Holders have not counted assigned codes.
2. CRTC staff in directives dated in 2003, 2007 and 2009 requested that the CNA reserve a number of CO Codes to be used for new unknown entrants, new technologies and other unforecasted demand. The CSCN recommends that the quantities identified in those directives should be carried forward to the 2012 NRUF, except in NPAs where pools of CO Codes have been established for initial CO Code assignments, in which case the allowance for unforecasted demand should only be included for forecast years following the dissolution of the pool for initial CO Code assignments as noted in the table below.

CRTC Staff Allowance for Unforecasted Demand		Relief year (est. = estimated)	Allowance to be excluded from forecasted total quantities prior to the year below (= year after the dissolution of the pool, which is 2 years after relief)	CRTC Telecom Decision or Notice establishing pool of CO Codes for initial CO Code assignments
NPA	Quantity of CO Codes			
204/431	3	2012	-	Note*
250/236/604/778	7	2013	2016	Notice 2010-815
306/639	3	2013	-	Note**
403/780/587	7	n/a	-	-
416/437/647	6	2013	2016	Notice 2010-490
418/581	3	n/a	-	-
450/579	5	2010	2013	Notice 2008-17
506	3	n/a	-	-
514/438	6	n/a	-	-
519/226	5	n/a	-	-
613/343	7	2010	2013	Decision 2008-89

CRTC Staff Allowance for Unforecasted Demand		Relief year (est. = estimated)	Allowance to be excluded from forecasted total quantities prior to the year below (= year after the dissolution of the pool, which is 2 years after relief)	CRTC Telecom Decision or Notice establishing pool of CO Codes for initial CO Code assignments
NPA	Quantity of CO Codes			
705/249	5	2011	2014	Notice 2009-179
709	2	n/a	-	-
807	2	n/a	-	-
819/873	2	2012	2015	Notice 2009-308
867	2	n/a	-	-
902	3	n/a	-	-
905/289/365	7	2013	2016	Notice 2009-310

Note\*: In Telecom Notice of Consultation CRTC 2009-309, *Establishment of a CISC ad hoc committee for area code relief planning for area code 204 in Manitoba*, dated 28 May 2009, the Commission did not direct the CNA to set aside any CO Codes for initial code assignments during the 2 year period following relief.

Note\*\*: In Telecom Notice of Consultation CRTC 2011-260, *Establishment of a CISC ad hoc committee relief planning for area code 306 in Saskatchewan*, dated 19 April 2011, the Commission did not direct the CNA to set aside any CO Codes for initial code assignments during the 2 year period after relief.

The quantities of CO Codes in the above table should be carried forward for the 20-year study period with no growth.

3. Where the CRTC has ordered or an RPC has recommended that quantities of CO Codes be set aside for a specified period of time for assignment to initial CO Code Applicants for a 2-year period after implementation of an Overlay, the CNA shall add such quantities to the actual quantity of CO Codes for January 1 of the current year and carry them forward in the forecasts until the Relief Date, since these set-aside CO codes are unassignable from the date of the Decision until immediately prior to the Relief Date, after which they become assignable (with limitations). The CNA should exclude such set-aside CO Codes from the calculation of annual growth rates.
4. Future projections beyond the six year forecast period will be calculated using linear extrapolation and the average annual growth in quantity of CO Codes for the six year forecast period, excluding any extraordinary factors such as returns or reclamations of large quantities of CO Codes and Codes identified in item 3 above that would create an unreasonable projected future growth rate. Where the CNA believes, based on its analysis of past growth and NRUF forecast data for an NPA, that the six-year forecast average annual growth may not be the best methodology for that NPA for projecting growth beyond the six-year forecast period, the CNA shall advise the CSCN as to the alternative method it proposes to use. The six-year average growth of CO Codes per year shall be calculated as follows and rounded to one decimal point at a maximum (e.g., 5.14 rounds down to 5.1; 5.15 rounds up to 5.2):

6 Year Average Growth of CO Codes per Year =  

$$\frac{[(\text{Forecasted Quantity of CO Codes in year six}) - (\text{Actual Quantity in January 1 of Current Year})]}{6}$$

When extending the forecast from 7 to 20 years, the CNA should use the six year forecast average annual growth, calculated to one decimal point, to develop the 1 January quantity of CO Codes for each year (e.g., in year seven  $100+5.4=105.4$  rounds up to 106; in year eight  $105.4+5.4=110.8$  rounds up to 111).

5. Stranded Codes
  - a) The CNA advised the CSCN that there is 1 Stranded Code with ported telephone numbers in NPA 705.
  - b) For the purposes of the 2012 NRUF, the CNA shall assume that the CO Code that is stranded at the beginning of 2012 will remain stranded indefinitely.
6. The CNA shall provide for each NPA the total quantity of actual and forecasted CO Codes and a breakdown of the quantity of "Unassignable CO Codes" as per section 3.7 of the Commission-approved Canadian Central Office Code (NXX) Assignment Guideline, or as otherwise directed in writing by the CRTC when the draft aggregate results are released, and in the subsequent 2012 NRUF Report to the CSCN after the aggregate results are finalized.
7. The "CNA Codes" and the "Stranded Codes" shall not be used in the calculation of the average annual future growth used for the 7 to 20 year projection.
8. The CNA shall not add or include any demand for CO Codes for proposed CLECs that did not submit NRUF forecasts, other than the demand that is already allowed for in the quantity of CO Codes for unforecasted demand specified by CRTC staff.
9. For the purpose of the NRUF the CNA should assume that the overlay method will be used for future NPA Reliefs unless CRTC staff advises otherwise.
10. With respect to NPAs that are due to exhaust approximately in the 2032 timeframe, the CNA should exercise its best judgment in finalizing the forecast for those NPAs.