

**Report for January 2008 G-NRUF – Canadian NPAs
to the
Canadian Steering Committee on Numbering (CSCN)**

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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 12 July 2004 in Telecom Decision CRTC 2004-45.

Included as attachments to this report are:

- 2008 G-NRUF Aggregate Results
- Quantity of CNA CO Codes as of 1 January 2008
- Historical G-NRUF Graphs for Canadian NPAs
- CSCN Letter dated 23 October 2007 (see section 7)

2. High Level Summary

The results from the 2008 G-NRUF are difficult to compare with the 2007 G-NRUF results due to three major factors:

- 1) Various Telecommunications Service Providers (TSPs) have submitted to the CNA a set of data that is different from the 2007 data. The CNA has verified the input from various TSPs and the variance from previous years' input can be rationalized.
- 2) 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).
- 3) 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 December 2021, which moves the Projected Exhaust Date out by five (5) years from the 2007 G-NRUF result of November 2016, primarily as a result of increased forecast demand in the area.
- NPA 250 Projected Exhaust Date is now combined with NPAs 604 and 778.

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- NPAs 250/604/778 Projected Exhaust Date is November 2018.
- NPAs 905/289 Projected Exhaust Date is now forecast for August 2014, which moves the Projected Exhaust Date in by two (2) years and seven (7) months from the 2007 G-NRUF result of March 2017, primarily as a result of increased forecast demand in the area.
- NPA 403 Projected Exhaust Date is now forecast for January 2009, which moves the Projected Exhaust Date in by two (2) months from the 2007 G-NRUF result of March 2009, as a result of increased forecast demand in the area.
- NPA 416/647 Projected Exhaust Date is now forecast for January 2017, which moves the Projected Exhaust Date in by almost one (1) year and six (6) months from the 2007 G-NRUF result of June 2018, primarily as a result of increased demand in the area.
- NPA 418 Projected Exhaust Date is now forecast for November 2008, which moves the Projected Exhaust Date out by one (1) month from the 2007 G-NRUF result of October 2008, primarily as a result of change of demand in the area.
- NPA 450 Projected Exhaust Date is now forecast for October 2014, which moves the Projected Exhaust Date out by one (1) year and one (1) month from the 2007 G-NRUF result of September 2013, primarily as a result of change of demand in the area.
- NPA 613 Projected Exhaust Date is now forecast for August 2011, which moves the Projected Exhaust Date in by two (2) years and four (4) months from the 2007 G-NRUF result of December 2013, primarily as a result of increased forecast demand in the area.
- NPA 705 Projected Exhaust Date is now forecast for September 2014, which moves the Projected Exhaust Date out by nine (9) months from the 2007 G-NRUF result of December 2013, primarily as a result of change of demand in the area.
- NPA 780 Projected Exhaust Date is now forecast for March 2009, which moves the Projected Exhaust Date in by seven (7) months from the 2007 G-NRUF result of October 2009, primarily as a result of increased forecast demand in the area.
- NPA 819 Projected Exhaust Date is now forecast for August 2017, which moves the Projected Exhaust Date out by two (2) years and six (6) months from the 2007 G-NRUF result of February 2015, primarily as a result of change of demand in the area
- NPA 902 Projected Exhaust Date is now forecast for November 2018, which moves the Projected Exhaust Date out by four (4) years and four (4) months from the 2007 G-NRUF result of July 2014, primarily as a result of change of demand in the area.

NPAs in or entering Relief Planning

NPA	2008 G-NRUF View	2007 G-NRUF View	Remarks
250	November 2018	January 2008	In Relief Planning Combined with NPAs 604 and 778

NPA	2008 G-NRUF View	2007 G-NRUF View	Remarks
403	January 2009	March 2009	In Relief Planning In Jeopardy Condition
418	November 2008	October 2008	In Relief Planning In Jeopardy Condition
450	October 2014	September 2013	In Relief Planning Window
613	August 2011	December 2013	In Relief Planning
705	September 2014	December 2013	In Relief Planning Window
780	March 2009	October 2009	In Relief Planning In Jeopardy Condition
902	November 2018	July 2014	Moved out of Relief Planning Window
905/289	August 2014	March 2017	In Relief Planning Window

3. Current and Past G-NRUF Projected Exhaust Dates

NPA	LOCATION	2004	2005	2006	2007	2008
204	Manitoba	Nov. 2023	> 20 years	Jun. 2020	Nov. 2016	Dec. 2021
250	BC (Island & Interior)	May 2009	Nov. 2009	Apr. 2010	Jan. 2008	*
250 / 604 / 778	BC					Nov. 2018
306	Saskatchewan	Beyond 2024	> 20 years	Jun. 2028	Dec. 2020	Oct. 2023
403	S. Alberta	Sep. 2009	Sep. 2011	Mar. 2011	Mar. 2009	Jan. 2009
403 / 780 / 587	Alberta					Nov. 2024
416 / 647	Toronto	May 2014 Nov. 2023	Feb. 2018	Jun. 2016	Jun. 2018	Jan. 2017
418	N. E. Quebec	Mar. 2013	Mar. 2015	Dec. 2013	Oct. 2008	Nov. 2008
450	Montreal Fringe	Apr. 2025	> 20 years	Oct. 2019	Sep. 2013	Oct. 2014
506	New Brunswick	Beyond 2024	> 20 years	Aug. 2019	Nov. 2021	Jan. 2027
514 / 438	Montreal	Oct. 2007 Jul. 2023	Feb. 2009	Feb. 2009	Beyond 2030	Beyond 2030
519 / 226	S. Ontario	Oct. 2007	Nov. 2007	Jan. 2007	Nov. 2021	Apr. 2019
604	Vancouver area	Beyond 2024	> 20 years	> 20 years	Beyond 2030	*
613	Ottawa area	Jun. 2013	Oct. 2015	Apr. 2014	Dec. 2013	Aug. 2011
705	N. E. Ontario	Nov. 2022	> 20 years	Aug. 2023	Dec. 2013	Sep. 2014
709	Nfld & Labrador	Beyond 2024	> 20 years	Dec. 2030	Feb. 2028	Feb. 2028
778	Vancouver EAS	Aug. 2018	Sep. 2020	Jun. 2023	May. 2025	*
780	N. Alberta	Nov. 2011	Jan. 2015	Feb. 2013	Oct. 2009	Mar. 2009
807	N.W. Ontario	Beyond 2024	> 20 years	> 20 years	Beyond 2030	Beyond 2030
819	N. E. Quebec	Beyond 2024	> 20 years	Mar. 2027	Feb. 2015	Aug. 2017

867	Yukon, NWT, Nunavut	Beyond 2024	> 20 years	> 20 years	Beyond 2030	Beyond 2030
902	Nova Scotia & PEI	Jul. 2014	Oct. 2015	Feb. 2015	Jul. 2014	Nov. 2018
905 / 289	Toronto Fringe	Jul. 2023	Oct. 2022	Nov. 2021	Mar. 2017	Aug. 2014

* See 250 / 604 / 778

4. Schedule of Future NRUF Activities in the Current Year

Due Date	NRUF Type	NRUF Format	NPA(s)
Jul. 30,	J-NRUF	As determined by RPC	403
Jul. 30,	J-NRUF	As determined by RPC	418
Jul. 30,	J-NRUF	As determined by RPC	780
Aug. 11	R-NRUF	Format 2	450
Aug. 11	R-NRUF	Format 2	613
Aug. 11	R-NRUF	Format 2	705
Aug. 11	R-NRUF	Format 2	905 / 289

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

- a) TSPs confuse the differences between a G-NRUF, a J-NRUF an R-NRUF and the Reserved and Held Report requirements.
- b) Some companies had problems¹ with completion of the C-NRUF forms, submitted the inappropriate form, or missed submission of a form.

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 G-NRUF is meaningful and timely.
- 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. Based on discussions between the CNA and various TSPs, it would appear that there is too much time between the request for G-NRUF data and the submission date, which allows TSPs to become involved with other projects and to overlook the due date. The

¹ Not including companies that did not follow submission instructions.

CNA recommends a maximum of one month from the date of the initial request to the due date of the G-NRUF.

7. G-NRUF Assumptions

See the attached CSCN letter dated 23 October 2007.

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 2008 C-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 23 October 2007.

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 and the introduction of wireless number portability.

The results from the 2008 G-NRUF are difficult to compare with the 2007 G-NRUF results due to one major factor:

- 1) Various TSPs have submitted to the CNA a set of data that is somewhat different from the 2007 data because of various regulatory decisions that have stimulated forecast growth in the majority of NPAs.

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

As we move forward into the remainder of 2008 there is still the potential for volatility in demand for numbering resources that is difficult to predict. Recent events such as expansion of the VoIP market, continued acquisitions/mergers and the recent expansion of LNP to encompass wireless services may have an unforeseen impact on demand. Due to these uncertainties, there is some latitude for determining what is reasonable and realistic.

Accordingly, 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.

2008 G-NRUF Aggregate Results

NPA / Years	2003			2004			2005			2006			2007			5 Year
	Actual	Forecast	Delta	Actual	Forecast	Delta	Actual	Forecast	Delta	Actual	Forecast	Delta	Actual	Forecast	Delta	Average
204	7	28	25.0%	4	13	30.8%	14	20	70.0%	22	19	115.8%	22	34	64.7%	61.3%
250	21	26	80.8%	27	35	77.1%	17	30	56.7%	55	53	103.8%	96	85	112.9%	86.3%
289-905	34	29	117.2%	103	61	168.9%	67	51	131.4%	92	79	116.5%	118	187	63.1%	119.4%
306	4	8	50.0%	3	5	60.0%	8	26	30.8%	39	41	95.1%	23	28	82.1%	63.6%
403	23	22	104.5%	32	52	61.5%	26	53	49.1%	64	64	100.0%	76	80	95.0%	82.0%
416-647	34	52	65.4%	43	60	71.7%	41	54	75.9%	53	44	120.5%	36	61	59.0%	78.5%
418	16	34	47.1%	11	26	42.3%	58	27	214.8%	65	65	100.0%	94	97	96.9%	100.2%
450	8	23	34.8%	41	24	170.8%	81	47	172.3%	86	83	103.6%	17	44	38.6%	104.0%
506	16	25	64.0%	5	19	26.3%	28	59	47.5%	28	28	100.0%	54	37	145.9%	76.7%
438-514	27	49	55.1%	49	50	98.0%	28	45	62.2%	35	36	97.2%	29	54	53.7%	73.3%
226-519	18	43	41.9%	24	39	61.5%	75	59	127.1%	68	70	97.1%	95	77	123.4%	90.2%
604	1	1	100.0%	6	14	42.9%	2	9	22.2%	10	10	100.0%	59	15	393.3%	131.7%
613	16	32	50.0%	11	40	27.5%	38	30	126.7%	34	37	91.9%	51	95	53.7%	69.9%
705	17	30	56.7%	7	16	43.8%	26	22	118.2%	56	55	101.8%	53	112	47.3%	73.5%
709	10	15	66.7%	1	15	6.7%	18	31	58.1%	10	10	100.0%	33	64	51.6%	56.6%
778	27	22	122.7%	24	53	45.3%	34	41	82.9%	36	34	105.9%	32	58	55.2%	82.4%
780	27	17	158.8%	23	42	54.8%	29	54	53.7%	53	53	100.0%	94	114	82.5%	89.9%
807	4	1	400.0%	8	11	72.7%	6	6	100.0%	2	2	100.0%	6	6	100.0%	154.5%
819	9	16	56.3%	2	15	13.3%	25	35	71.4%	92	89	103.4%	24	34	70.6%	63.0%
867	1	4	25.0%	1	1	100.0%	1	-42	-2.4%	6	-8	-75.0%	0	-30	0.0%	9.5%
902	17	37	45.9%	20	43	46.5%	30	52	57.7%	25	24	104.2%	16	45	35.6%	58.0%
			84.2%			63.0%			82.2%			94.4%			86.9%	

Notes: Actual is based on Part 1 application date.
Forecast is from G-NRUF submissions, ignoring CNA codes.
Delta is Actual/Forecast.

2008 G–NRUF Aggregate Results

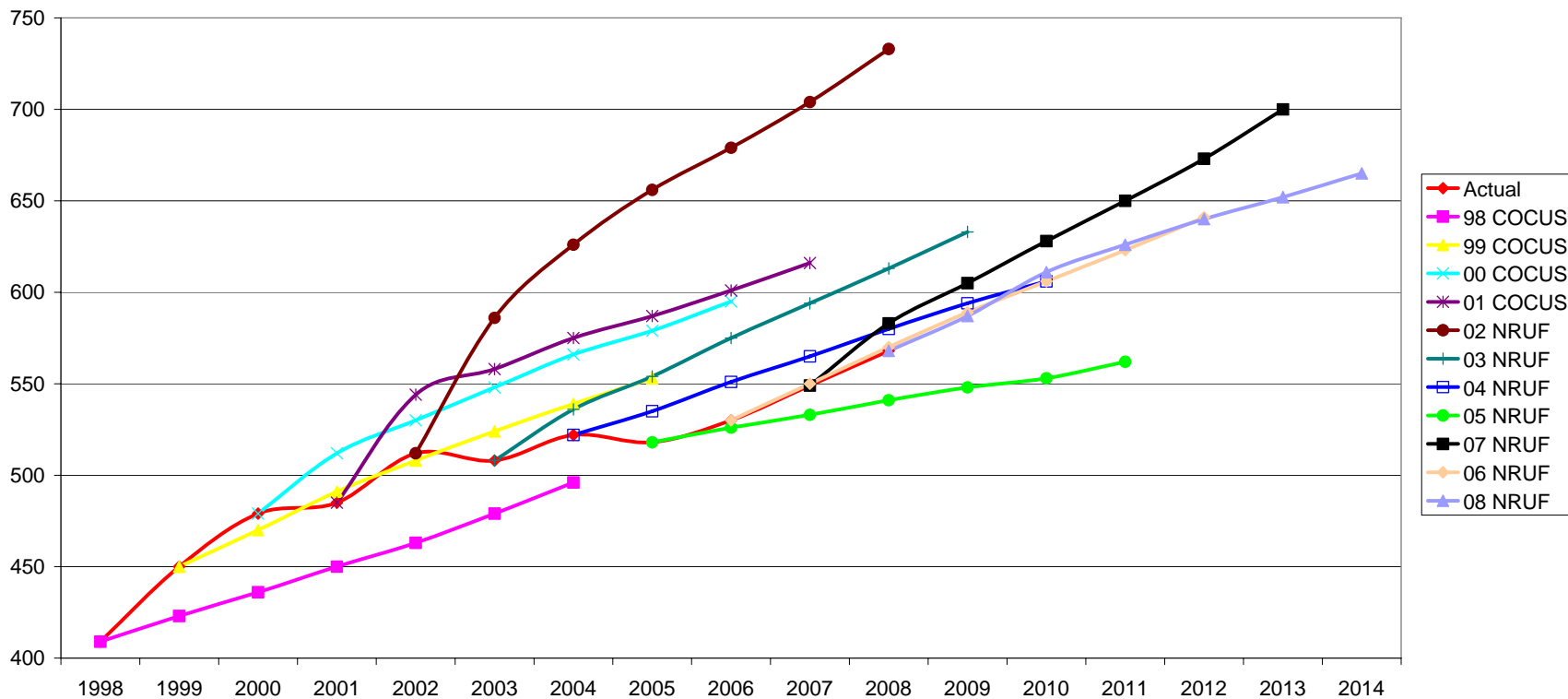
As of January 1

NPA / Years	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
204	568	587	611	626	640	652	665	682	699	716	733	750	767	784	801	818	835	852	869	886	903
226-519	939	1068	1131	1186	1240	1286	1324	1376	1428	1480	1532	1584	1654	1706	1758	1810	1862	1914	1966	2018	2070
250-604-778	1631	1744	1837	1910	1966	2025	2075	2142	2209	2276	2343	2424	2491	2558	2625	2692	2759	2826	2893	2960	3027
289-905	1094	1255	1337	1412	1465	1516	1561	1646	1708	1770	1832	1894	1956	2018	2080	2142	2204	2266	2328	2390	2473
306	600	627	640	652	664	673	683	695	707	719	731	743	755	767	779	791	825	837	849	861	873
403	705										Relief occurs in Oct 2008. Combined into 403-587-780										
403-587-780	1406	1609	1692	1744	1790	1829	1856	1906	1956	2006	2056	2106	2156	2206	2256	2306	2356	2406	2456	2506	2556
416-647	1033	1097	1157	1217	1288	1348	1409	1472	1535	1598	1684	1747	1810	1873	1936	1999	2062	2125	2188	2251	2314
418-581	768	834	861	883	893	901	907	922	937	952	967	982	997	1012	1027	1042	1057	1072	1087	1102	1117
438-514	765	806	830	853	878	900	920	943	966	989	1012	1035	1058	1081	1104	1127	1150	1173	1196	1219	1242
450	630	709	737	753	768	783	787	837	853	869	885	901	917	933	949	965	981	997	1013	1029	1045
506	409	442	465	485	504	522	540	560	580	600	620	640	660	680	700	720	740	760	780	830	850
613	638	733	757	786	839	857	872	894	916	938	960	982	1004	1026	1048	1070	1092	1114	1136	1158	1180
705	573	642	665	676	693	746	780	834	862	890	918	946	974	1002	1030	1058	1086	1114	1142	1170	1198
709	397	422	446	463	480	498	517	537	557	577	597	617	637	657	677	697	717	737	757	777	797
780	702										Relief occurs in Oct 2008. Combined into 403-587-780										
807	189	195	200	203	204	206	208	212	216	220	224	228	232	236	240	244	248	252	256	260	264
819	591	654	673	693	706	722	739	756	773	790	839	856	873	890	907	924	941	958	975	992	1009
867	187	159	161	163	165	165	167	169	171	173	175	177	179	181	183	185	187	189	191	193	195
902	576	604	623	640	657	685	703	723	743	763	783	820	840	860	880	900	920	940	960	980	1000
NPA / Years	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028

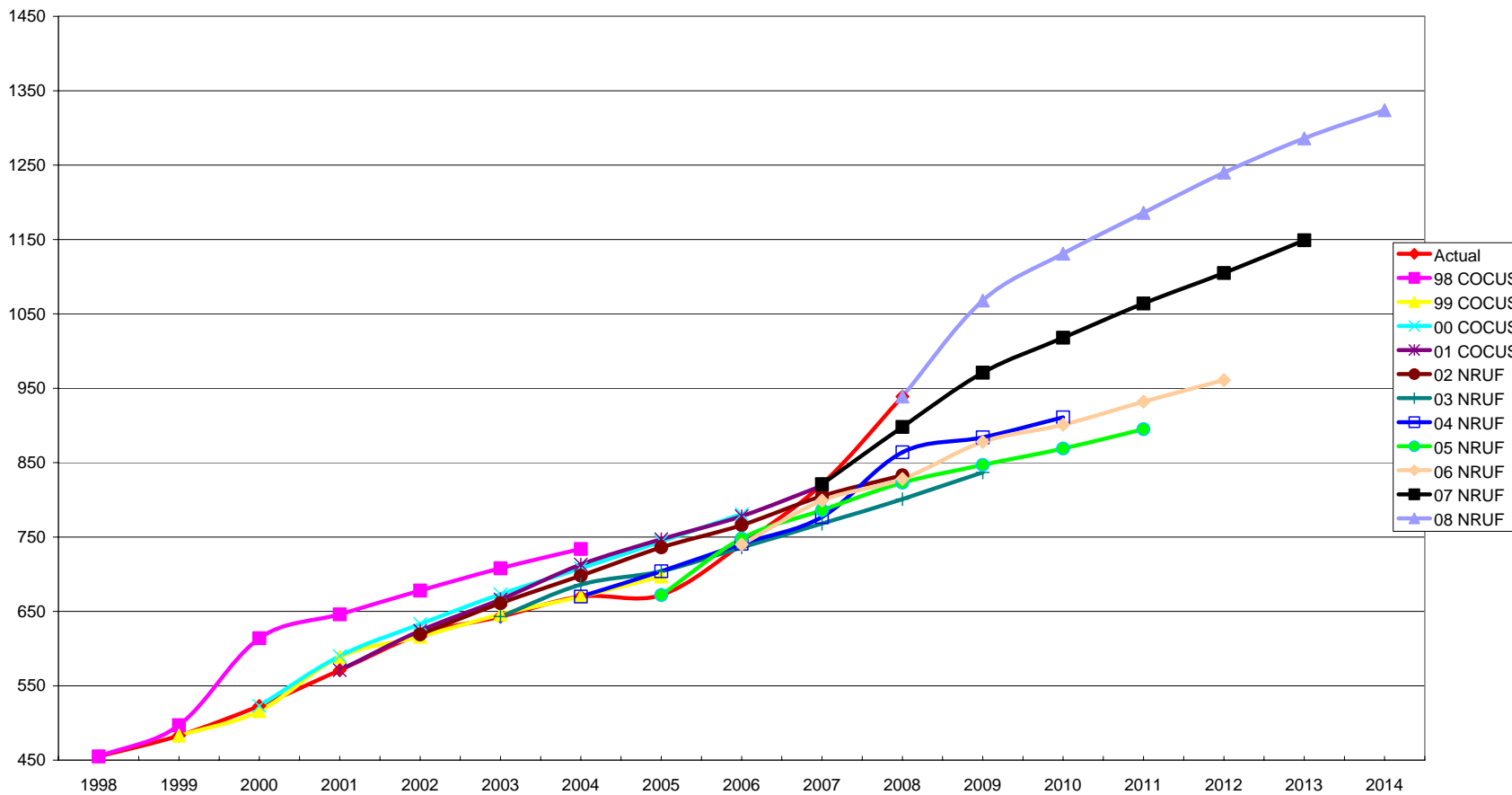
Quantity of CNA CO Codes as of 1 January 2008

NPAs	January 1, 2008																		
	204	226-519	250-604-778	289-905	306	403	416-647	418	438-514	450	506	613	705	709	780	807	819	867	902
Protected	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N11 Service Codes	8	16	24	16	8	8	16	8	16	8	8	8	8	8	8	8	8	8	8
Special Use Codes (555, 950 & 976)	3	5	9	6	3	3	5	2	5	3	3	2	2	3	3	2	2	3	3
Industry Plant Test Codes	1	4	6	4	2	2	4	2	4	2	2	2	2	2	2	2	2	2	2
Current NPAs	3	8	8	16	3	2	6	4	6	3	4	6	8	4	5	3	7	4	2
Future NPAs	7	8	3	18	10	1	18	1	26	19	19	16	14	15	1	25	17	31	5
Limited Availability (USA 7D Problem)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
911 Misdial Codes (912, 914 & 915)	3	0	0	0	3	0	0	0	0	0	3	0	3	3	0	3	0	3	3
Special 7 Digit Dialing Codes (310, 610 & 810)	2	5	7	5	2	2	5	2	5	2	2	2	2	2	2	2	2	3	2
New Unknown Entrants	3	5	7	7	3	4	6	3	6	5	3	7	5	2	4	2	2	2	3
Relief NPA	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0
Total	30	51	67	72	34	22	60	22	68	42	45	43	44	39	25	48	40	56	28

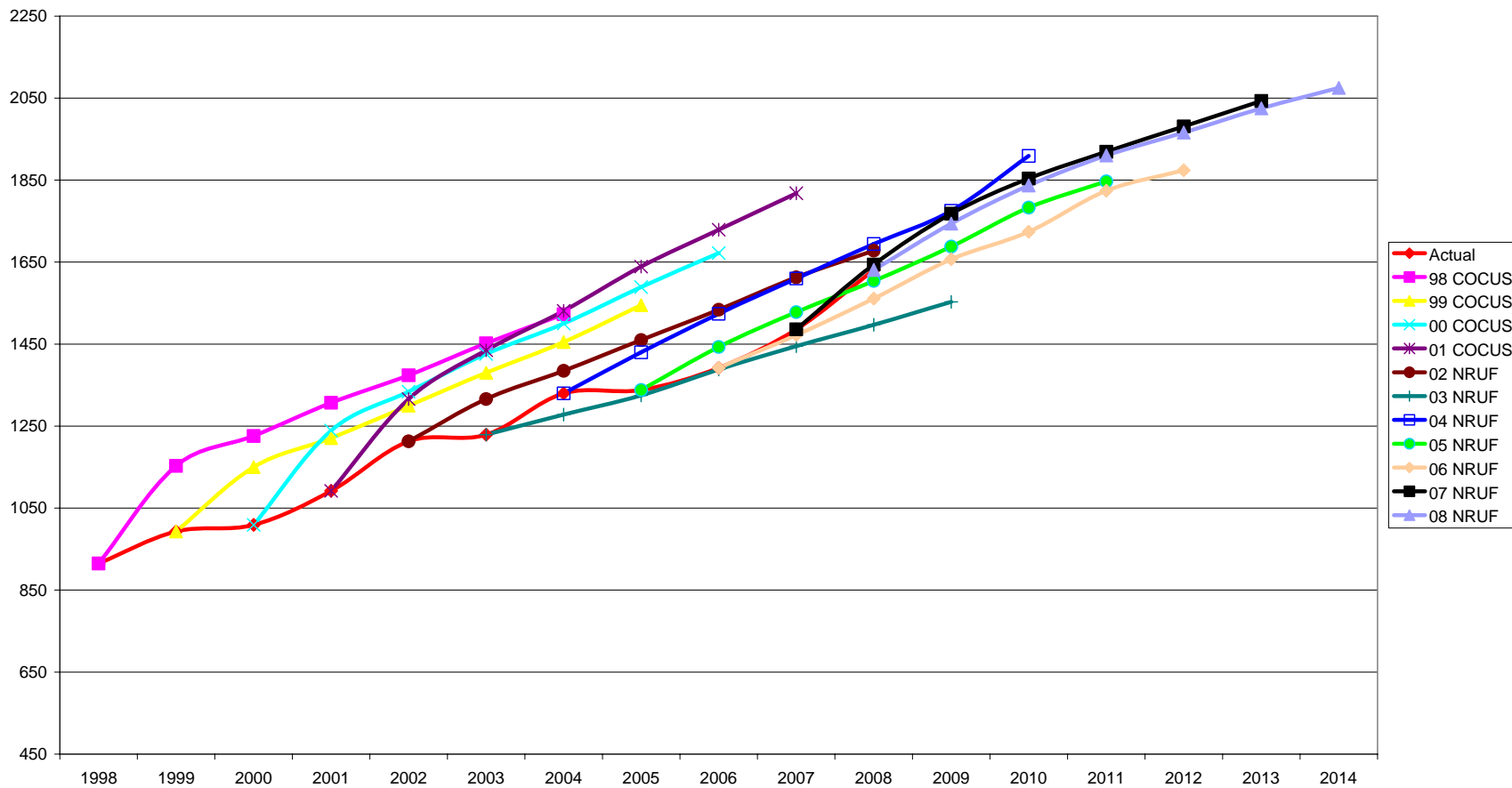
NPA 204 Manitoba



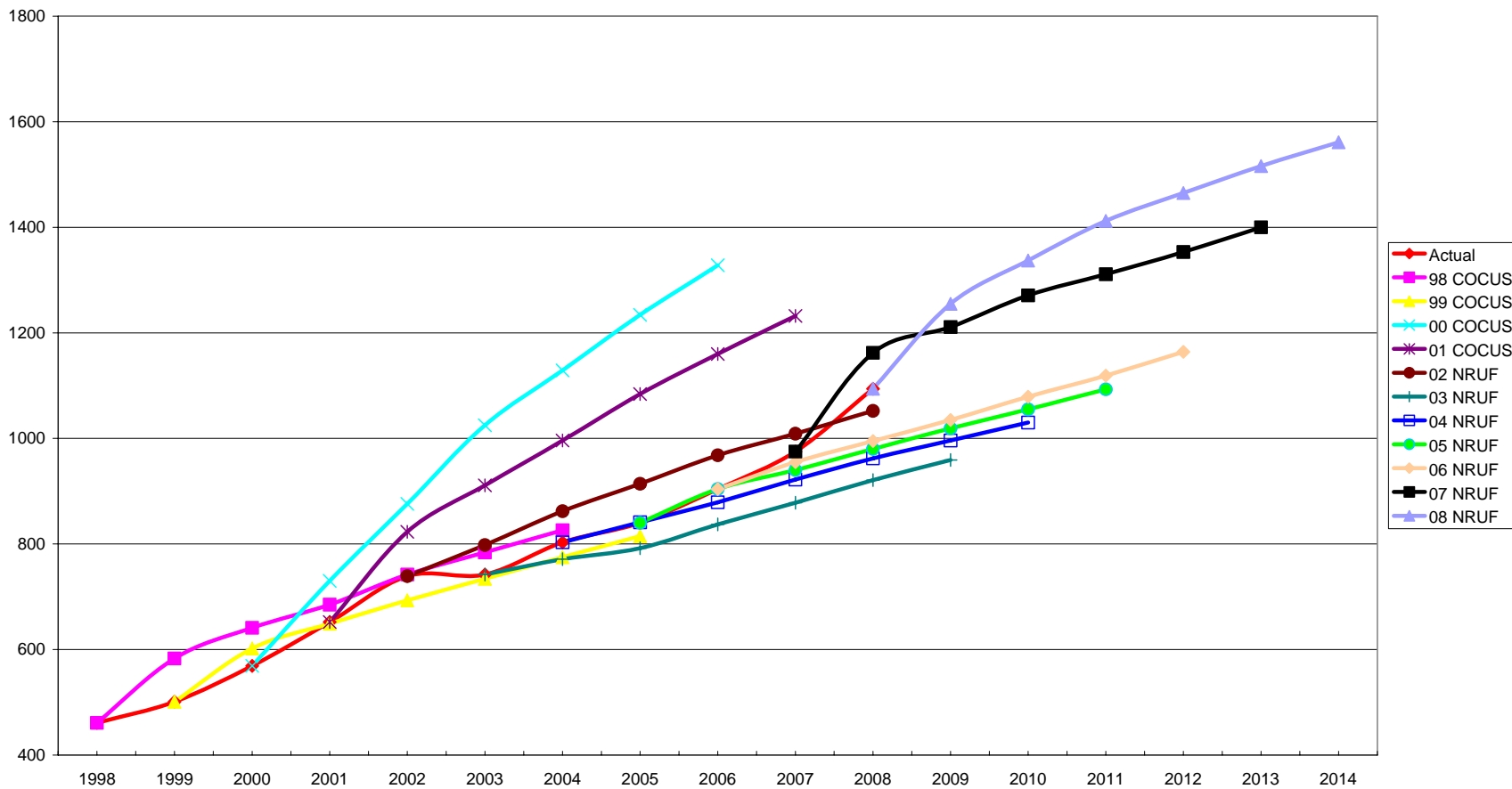
NPA 226-519 Ontario



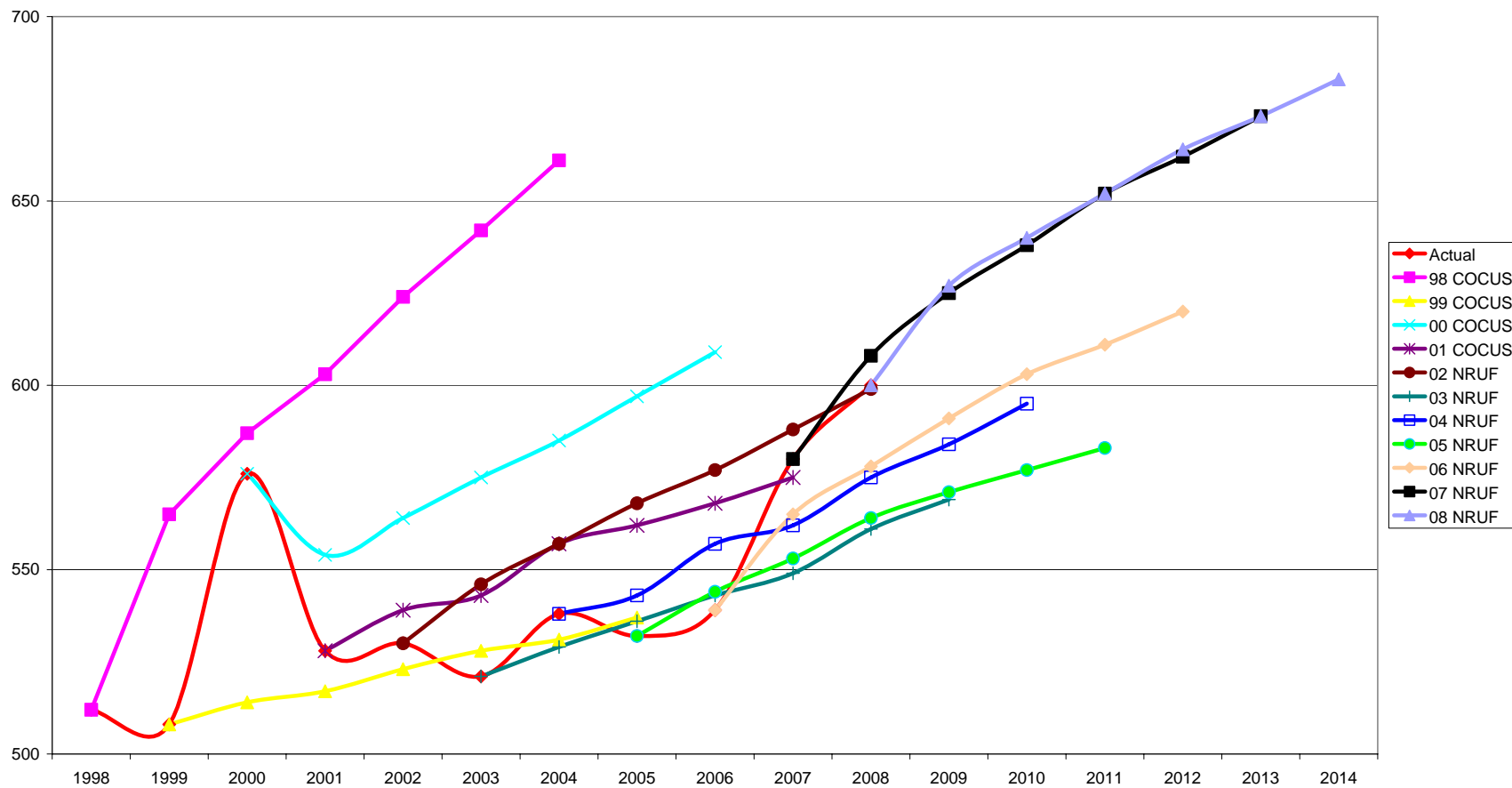
NPA 250-604-778 British Columbia



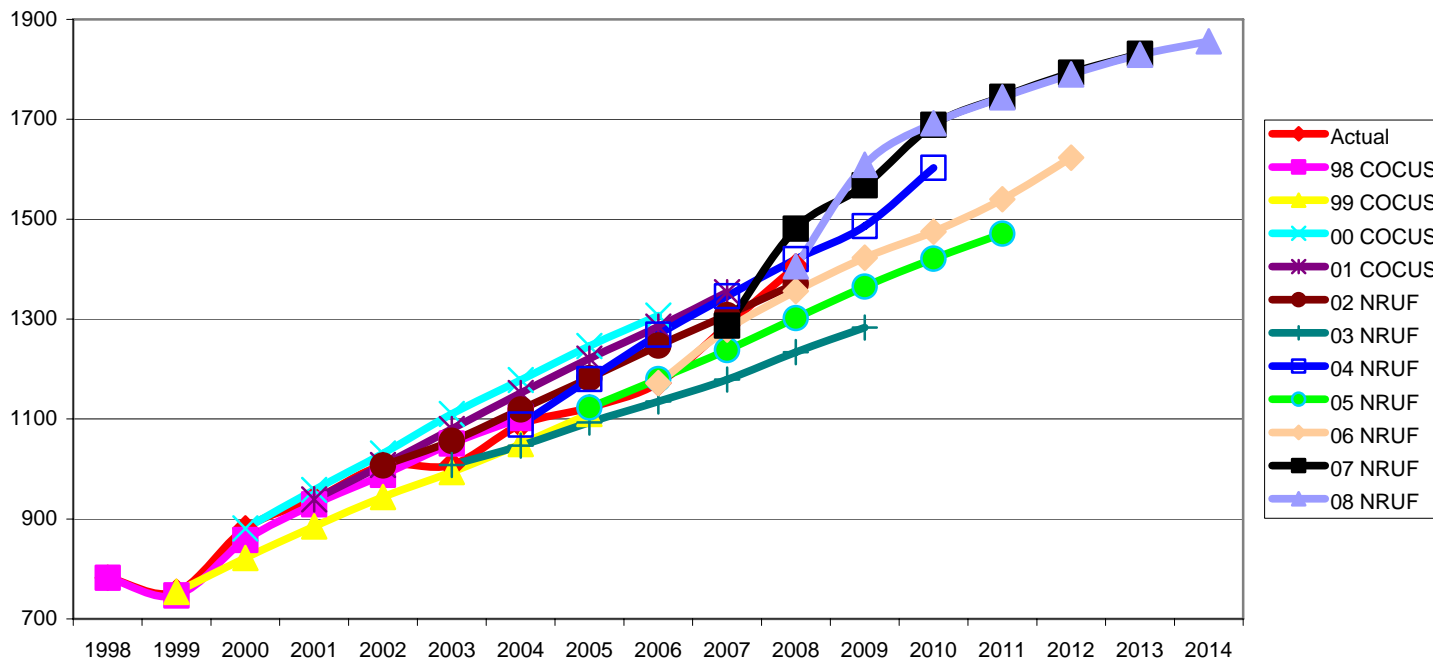
NPA 289-905 Ontario



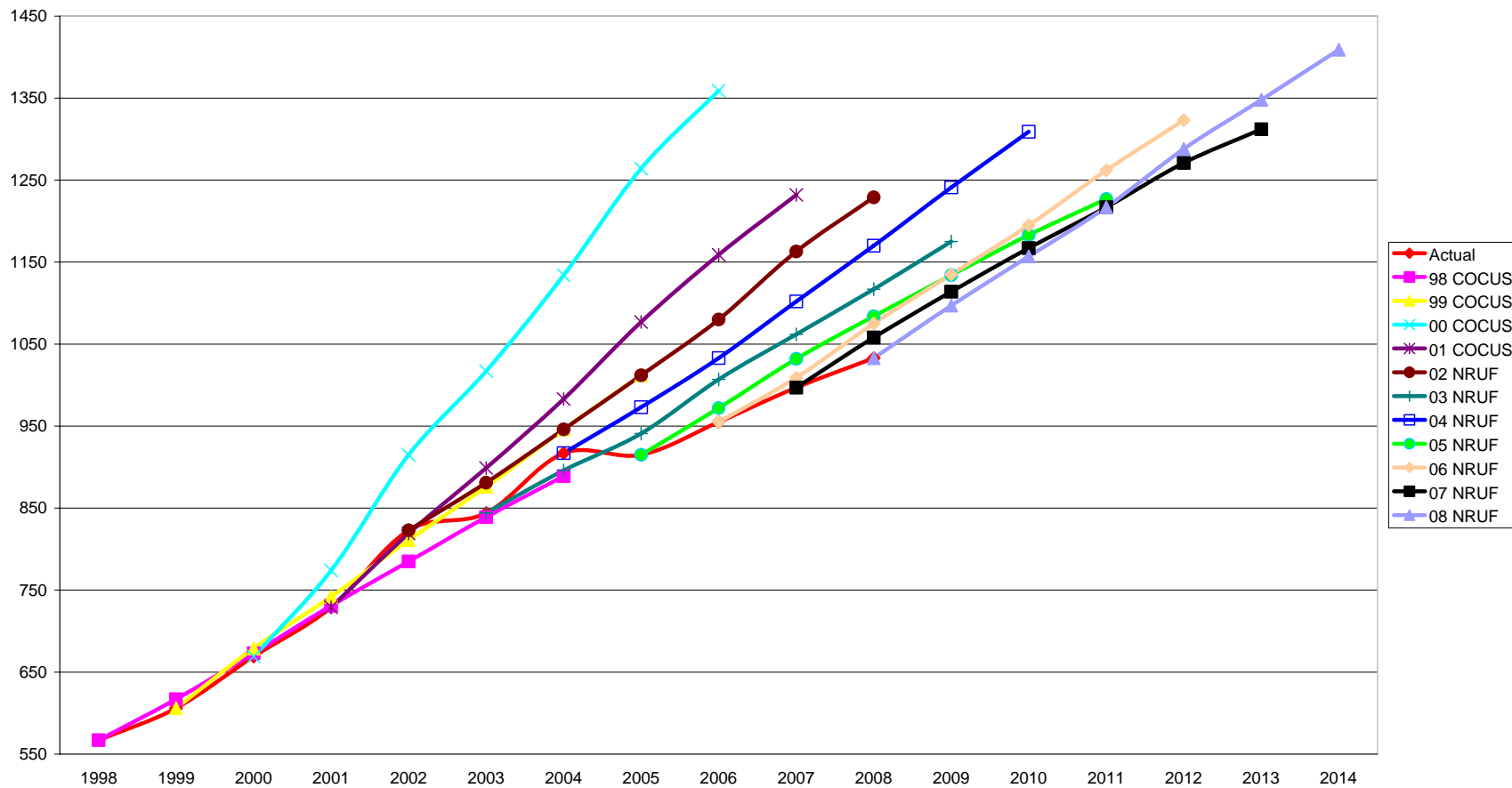
NPA 306 Saskatchewan



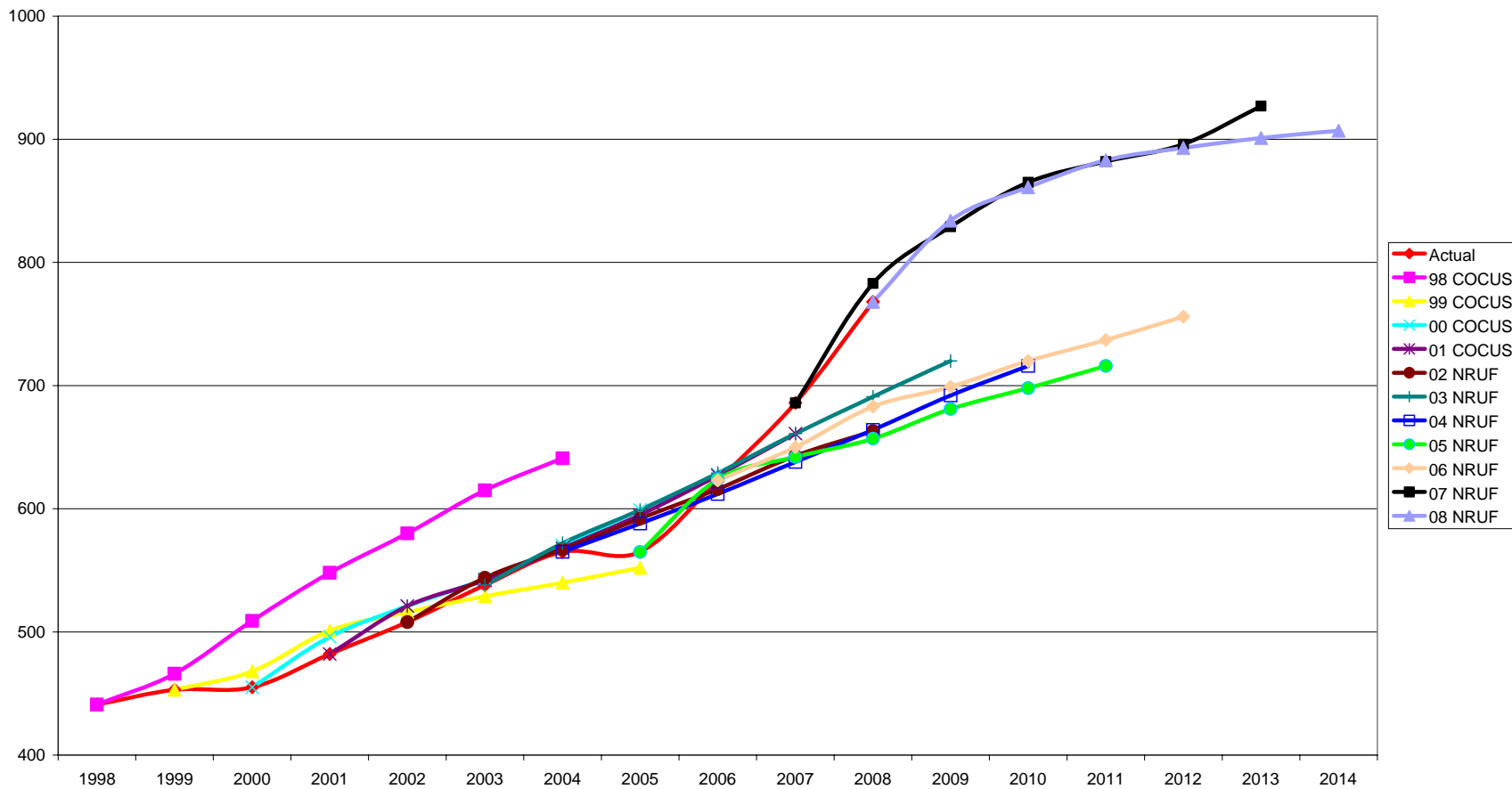
NPA 403-587-780 Alberta



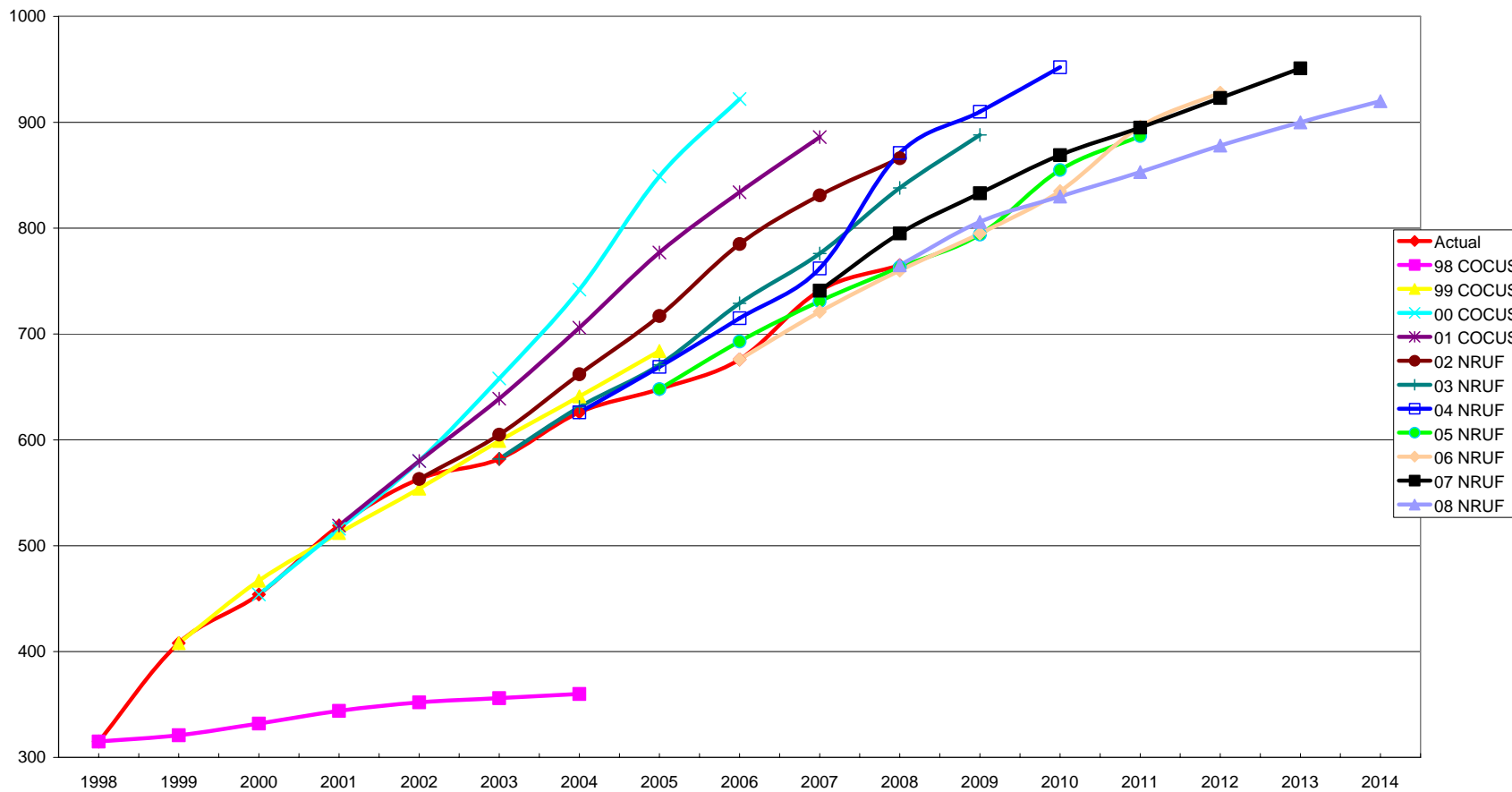
NPA 416-647 Ontario



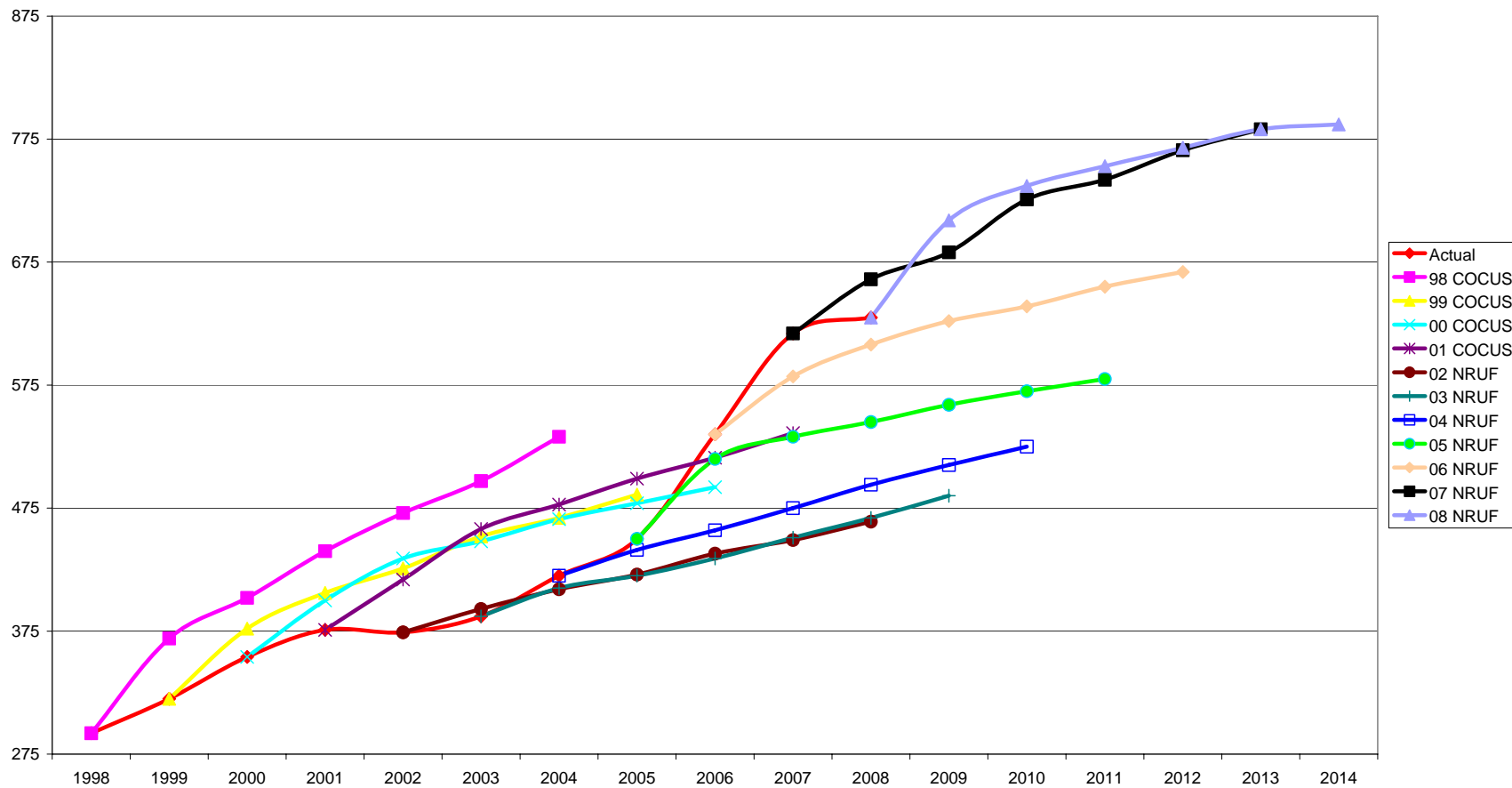
NPA 418-581 Quebec



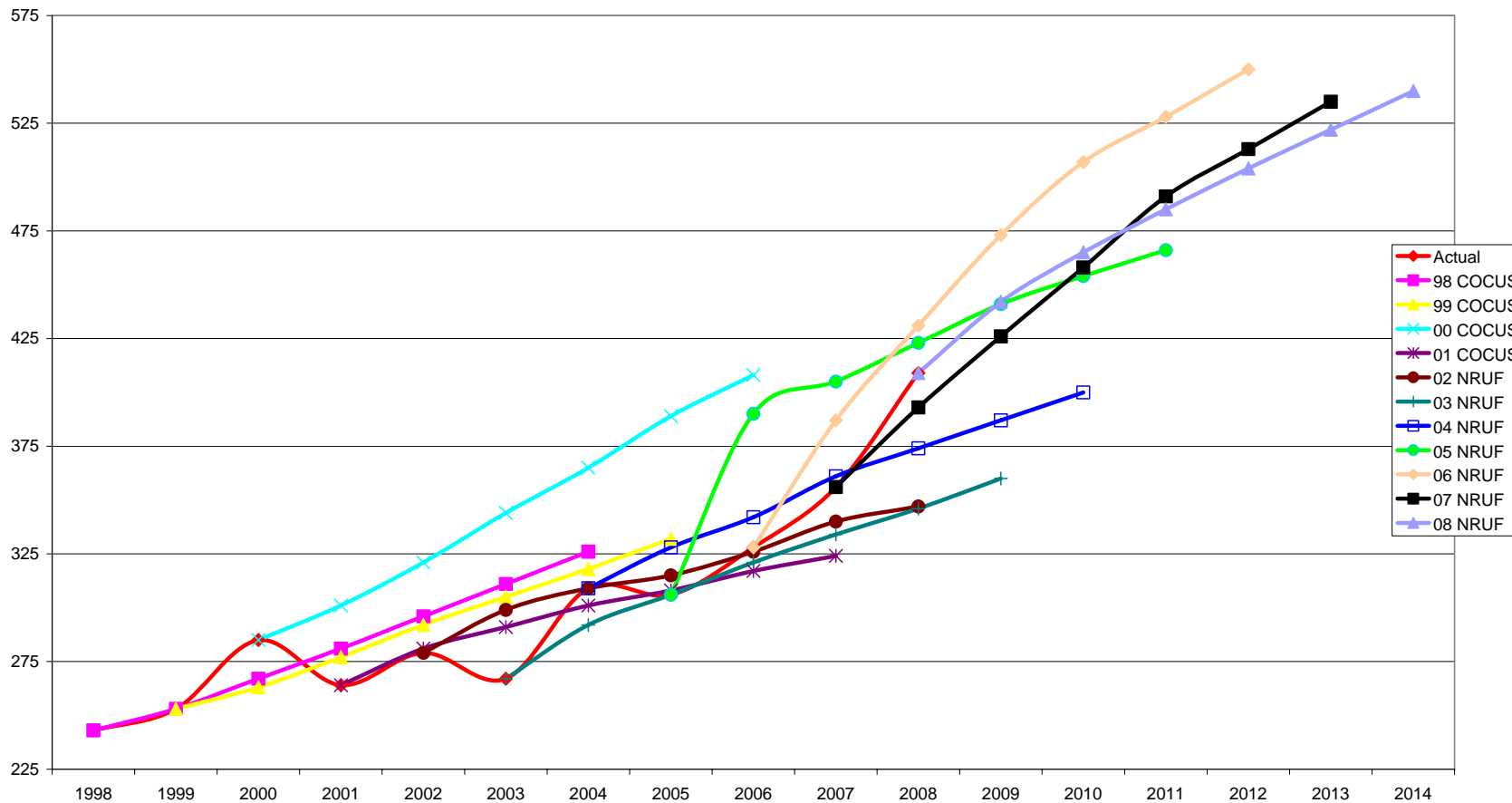
NPA 438-514 Quebec



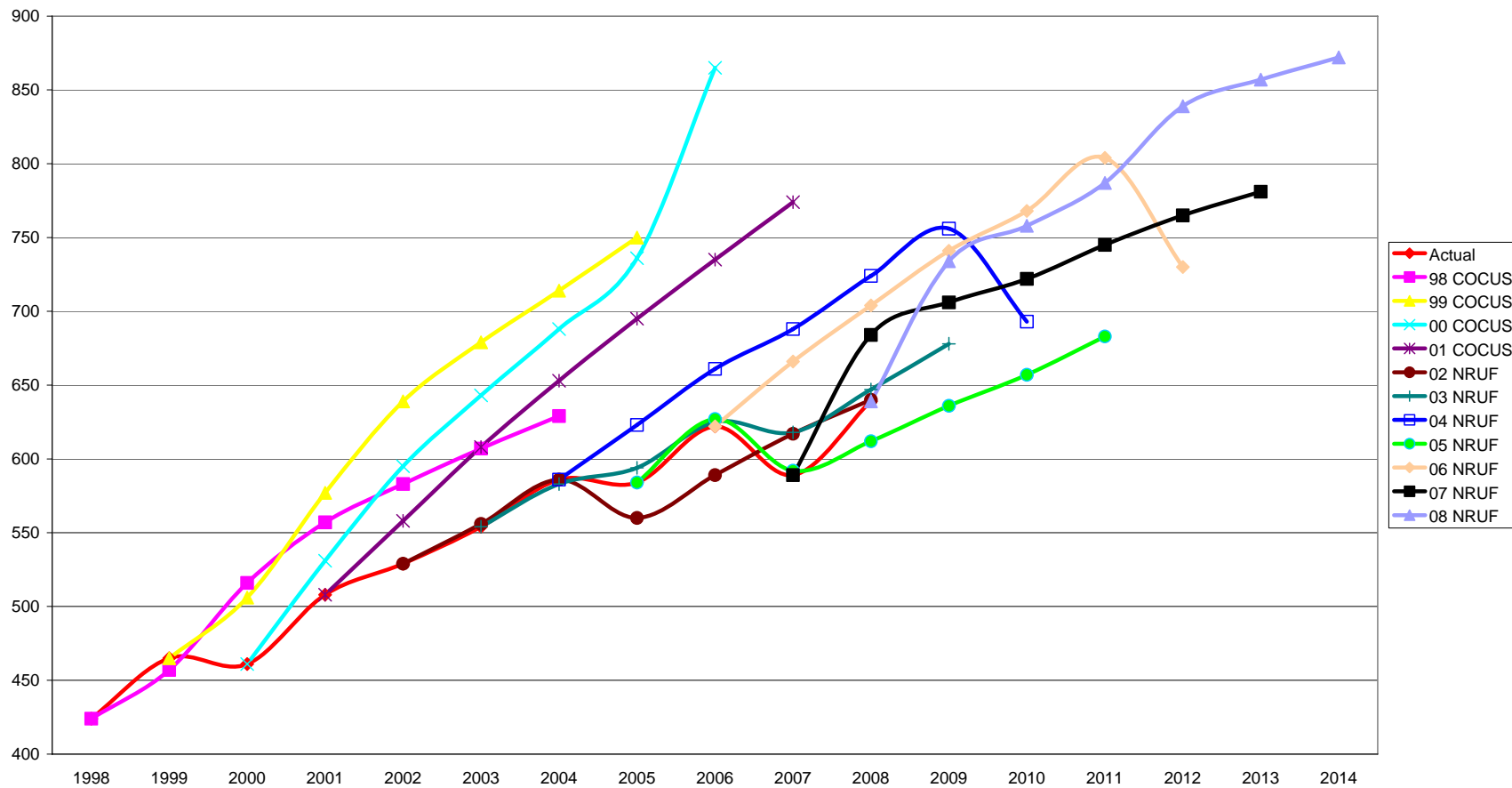
NPA 450 Quebec



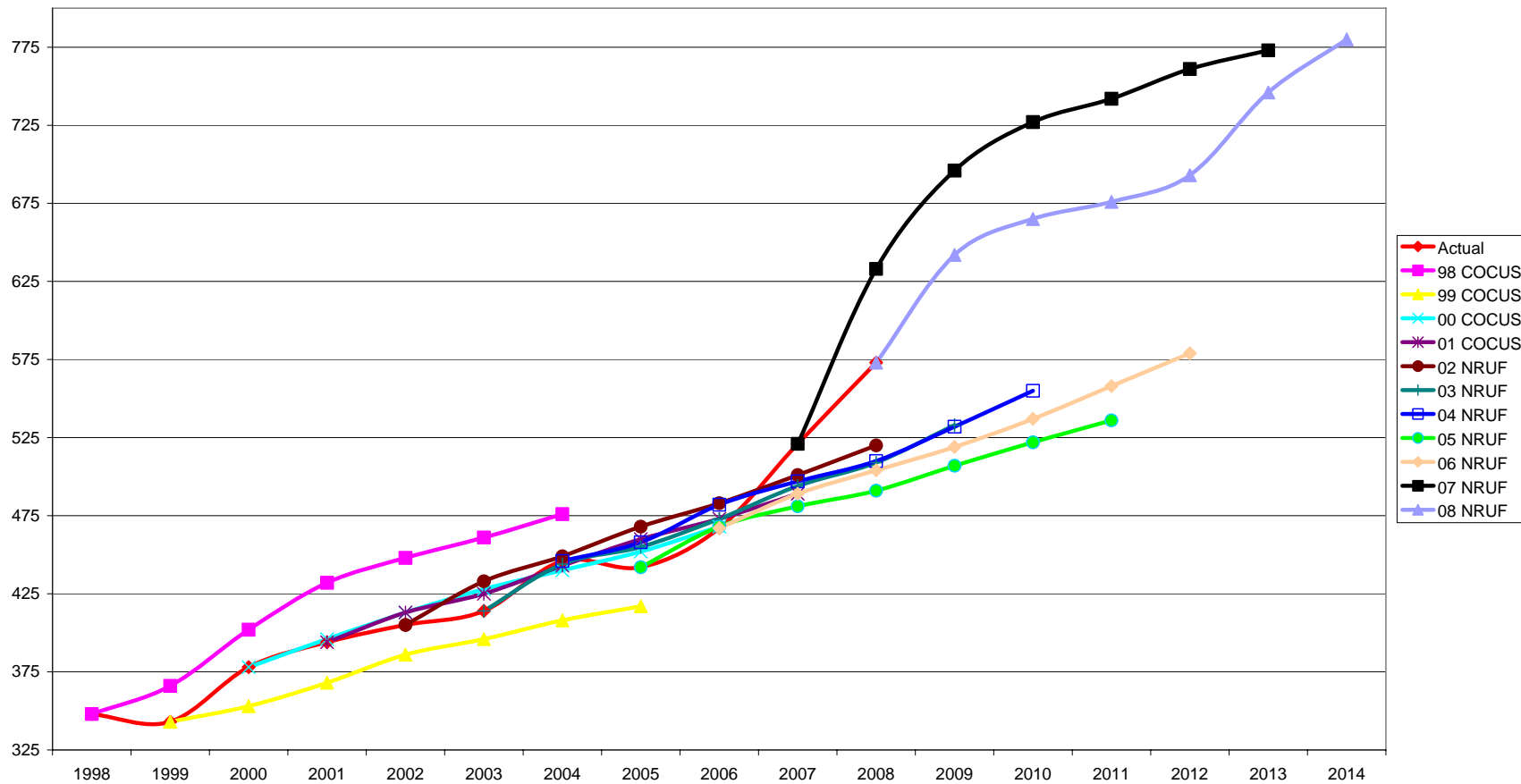
NPA 506 New Brunswick



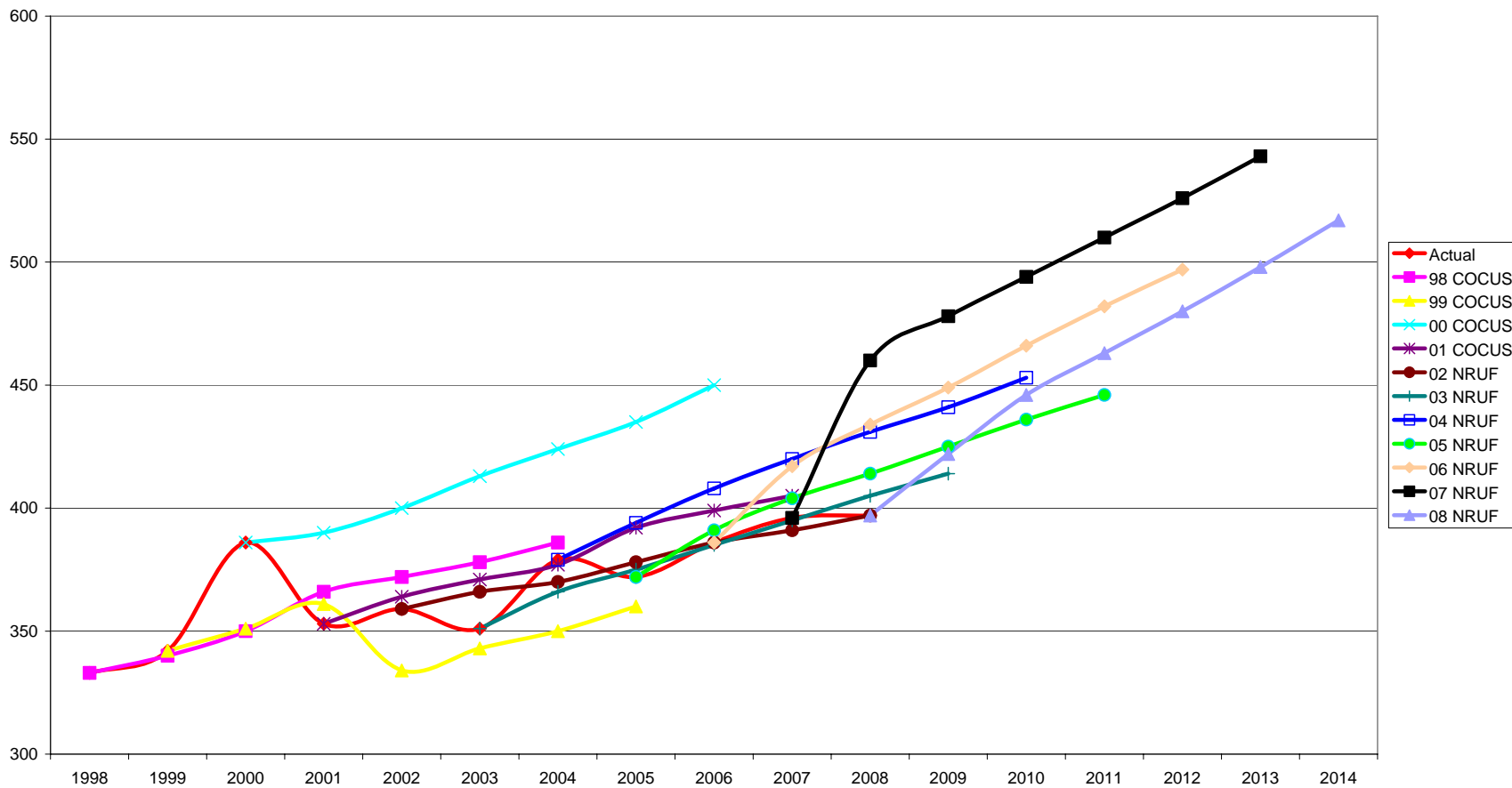
NPA 613 Ontario



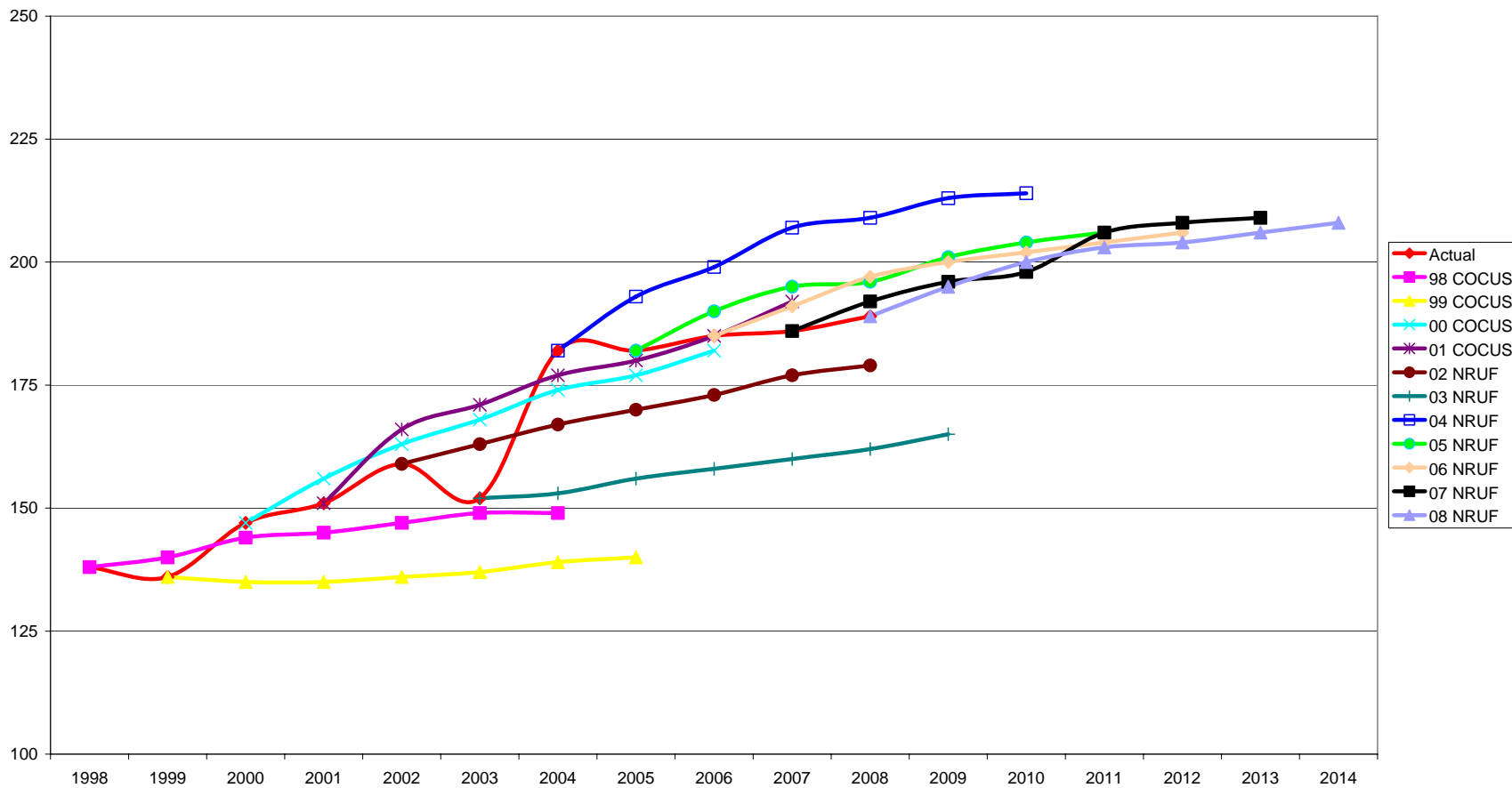
NPA 705 Ontario



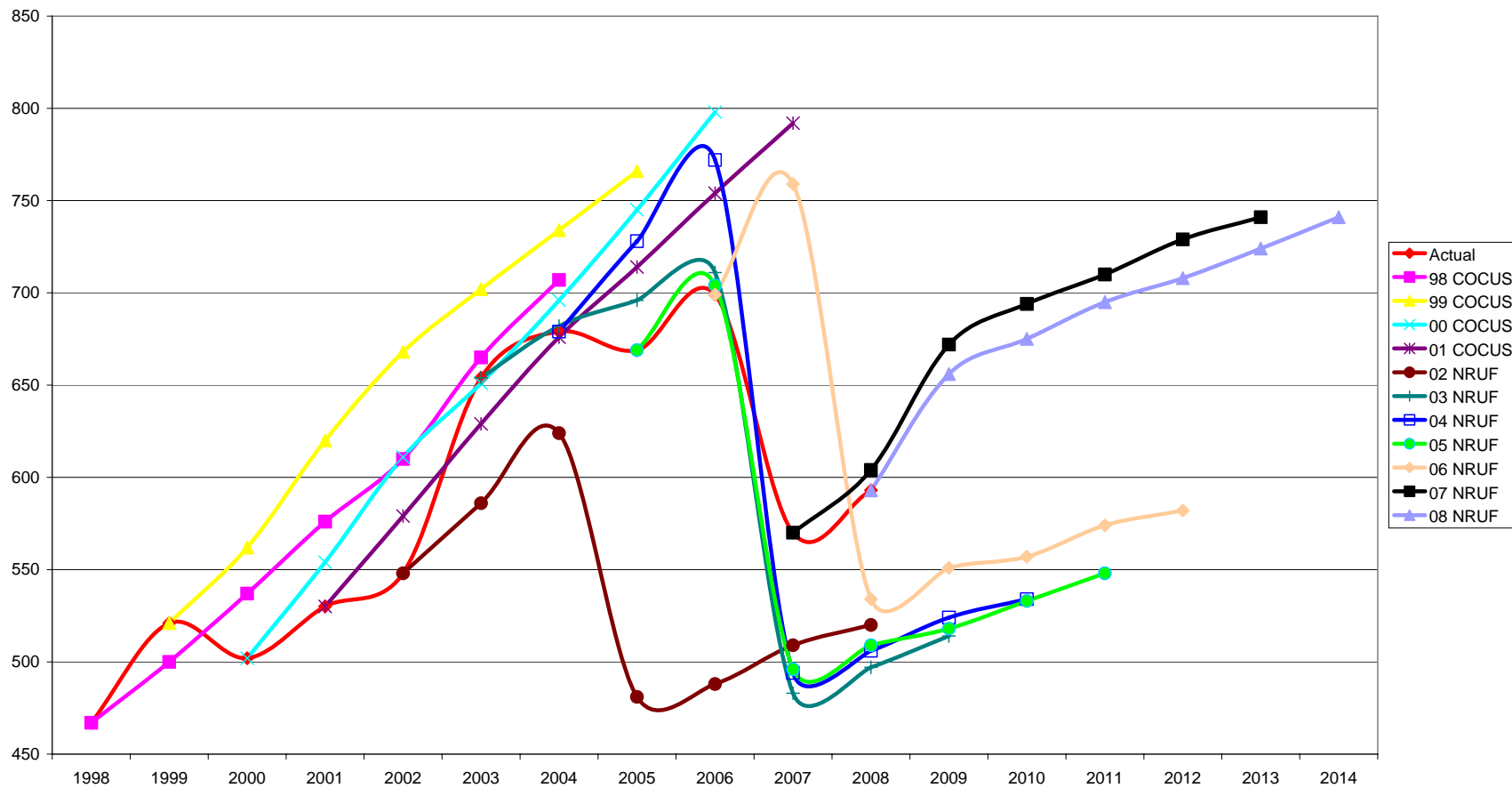
NPA 709 Newfoundland and Labrador



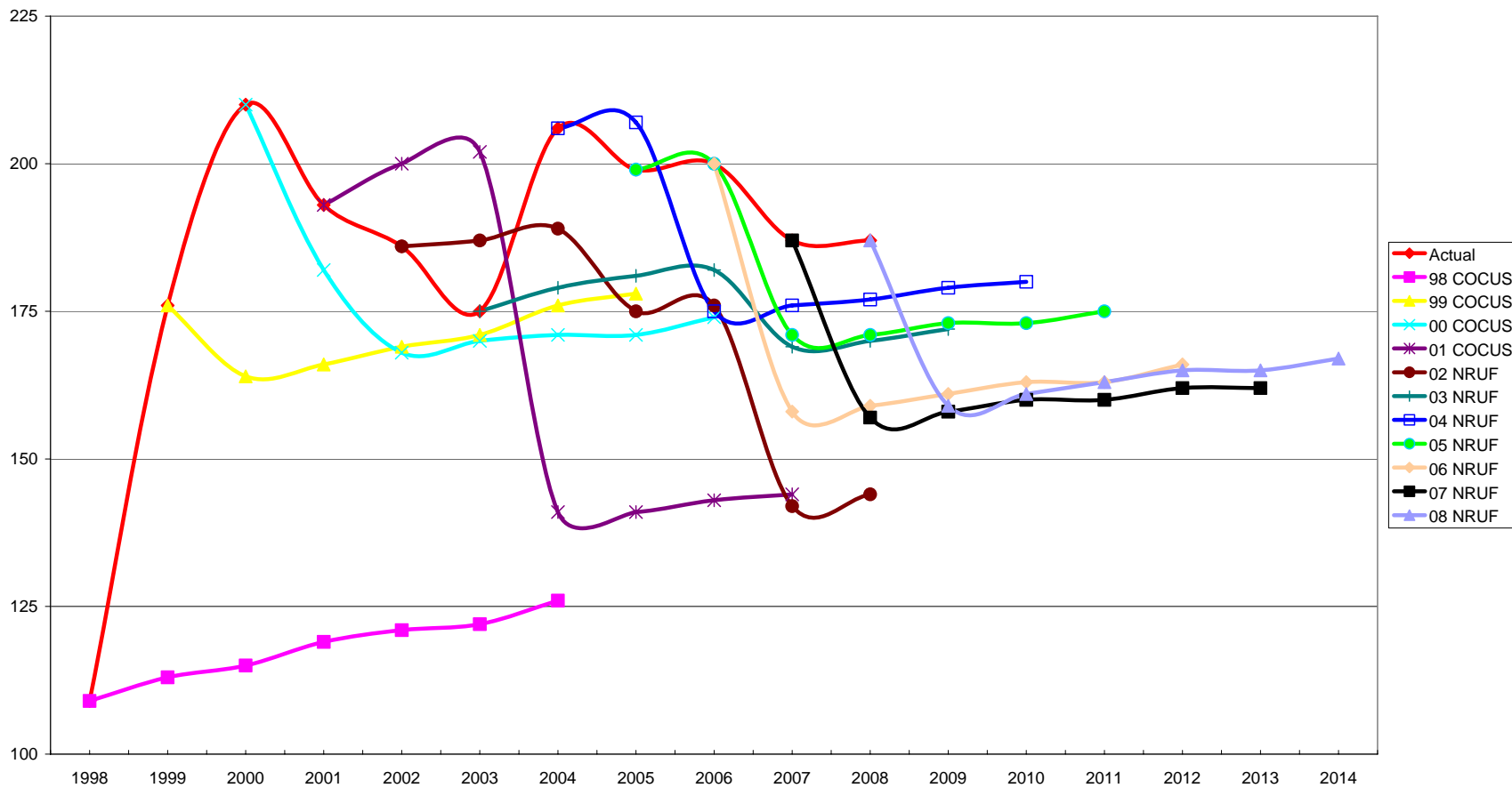
NPA 807 Ontario



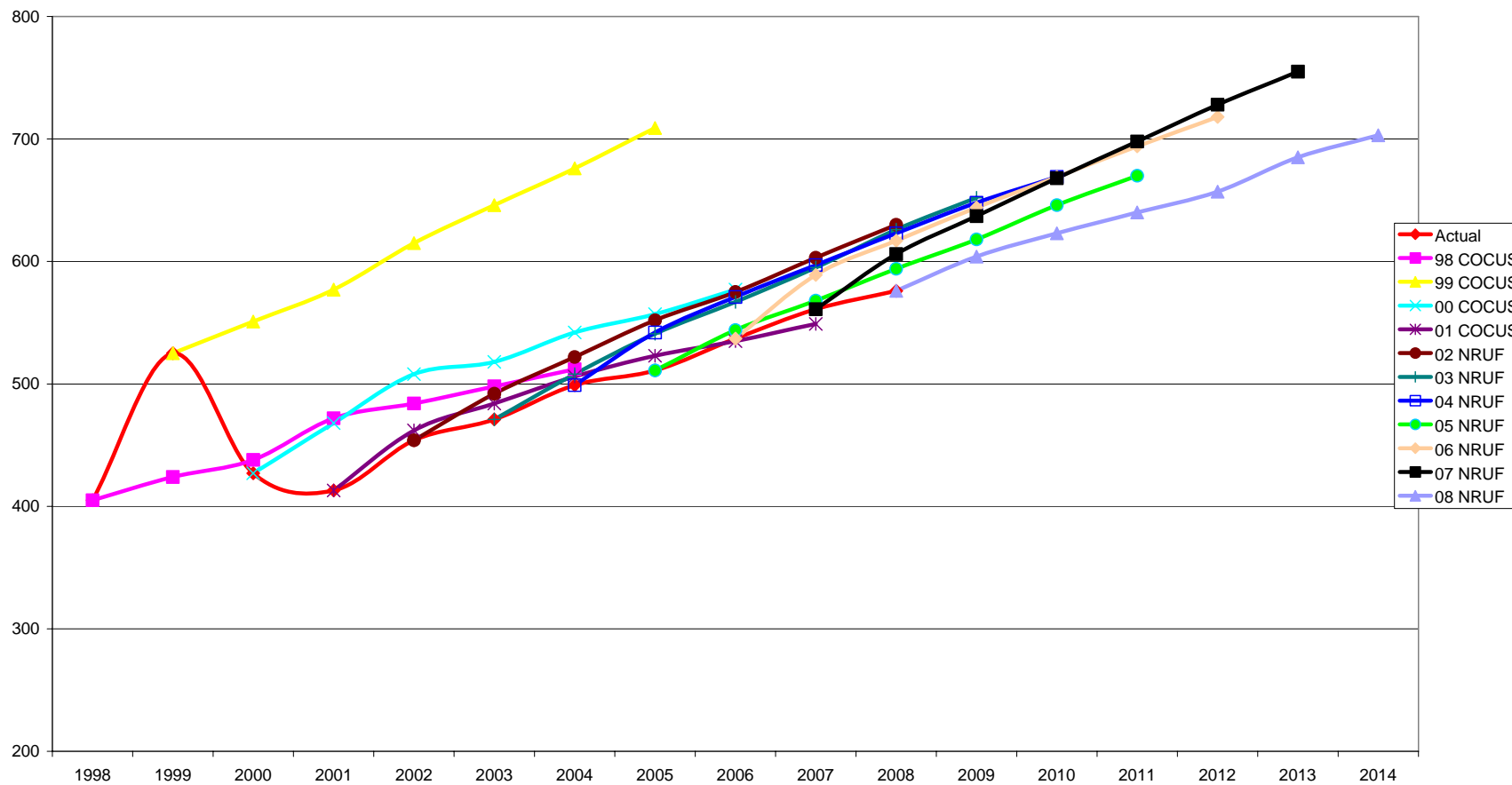
NPA 819 Quebec



NPA 867 Northwest Territories-Nunavut-Yukon



NPA 902 Nova Scotia-Prince Edward Island



CSCN

Canadian Steering Committee on Numbering

Attachment 4

Douglas Birdwise
Chair - CSCN
c/o Bell Canada
Room 1790 - 160 Elgin Street
Ottawa, Ontario, Canada K1G 3J4
Email: doug.birdwise@bell.ca
Tel: 613-781-4366
Fax: 613-781-2560

October 23, 2007

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 2008 Numbering Resource Utilization Forecast (2008 NRUF) Methodology and Assumptions

On October 23, 2007, the Canadian Steering Committee on Numbering (CSCN) discussed and agreed to the direction for the CNA with respect to the 2008 NRUF Methodology and Assumptions.

The attached document contains the direction titled "CSCN Direction to CNA re: 2008 NRUF Methodology and Assumptions October 23, 2007".

Please contact me at 613-781-4366 if you have any questions or want to discuss this matter further.

Sincerely,

Original signed by

Doug Birdwise
CSCN Chair

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

Attachment

CSCN Direction to CNA re: 2008 NRUF Methodology and Assumptions
October 23, 2007

The CSCN submits the following methodology and assumptions to the CNA for the 2008 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, 2008, 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. On 31 March 2003, the CSCN received a copy of a letter dated 26 March 2003 from CRTC staff addressed to the CNA regarding the 2003 G-NRUF Methodology and Assumptions. In this letter, CRTC staff indicated that they are concerned about the lack of allowance for unforecasted demand for new unknown entrants, new technologies or other unforecasted demand. To address this concern, CRTC staff requested the CNA to include an allowance for CO Code reservations for new unknown entrants, new technologies and other forecasted demand in area code exhaust projections. The CRTC staff letter contained an attachment that provided the quantity of codes that CRTC staff requested be added to the 2003 data as assigned CO Codes and carried forward throughout the 20 year study period with no growth.

For the purposes of conducting the 2008 NRUF, CRTC staff advised on October 16, 2007 the CNA to use the revised table below.

CRTC Staff Allowance for Unforecasted Demand	
NPA	Quantity of CO Codes
204	3
250/604/778	7
306	3
403/780/587	7
416/647	6
418/581	3
450	5
506	3
514/438	6
519/226	5
613	7

CRTC Staff Allowance for Unforecasted Demand	
NPA	Quantity of CO Codes
705	5
709	2
807	2
819	2
867	2
902	3
905/289	7

These numbers 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 (e.g., CO Codes set aside for initial CO Code Applicants for a 2-year period after implementation of an Overlay), the CNA shall identify and add such quantities to the actual quantity of CO Codes for January 1 of the current year and carry them forward in the forecasts for the specified period of time. After the specified period of time expires, the CNA shall place the set aside CO Codes back into the assignment pool. 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 upon 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 alternate 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 =
 [(Forecasted Quantity of CO Codes in year six) – (Actual Quantity in January 1 of Current Year)]/6
5. 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).
6. 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 2008 NRUF, the CNA shall assume that the CO Code that is stranded at the beginning of 2008 will remain stranded indefinitely.
- 7. 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 Canadian Central Office Code (NXX) Assignment Guidelines, approved by the Commission on January 26, 2006 in Telecom Decision CRTC 2006-4, or as otherwise directed in writing by the CRTC when the draft aggregate results are released, and in the subsequent 2008 NRUF Report to the CSCN after the aggregate results are finalized.
- 8. 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.
- 9. The CNA shall not include any demand for CO Codes for proposed CLECs that did not submit NRUF forecasts.
- 10. 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.
- 11. With respect to NPAs that are due to exhaust approximately in the 2027 timeframe, the CNA should exercise its best judgement in finalizing the forecast for those NPAs.
- 12. For the purpose of calculating NPA 778 exhaust, the CNA should assume that the remaining NPA 250 and 604 CO Codes will be assigned prior to the exhaust of NPA 778 CO Codes in the NPAs 250 and 604 areas.
- 13. For the purpose of calculating NPA 587 exhaust, the CNA should assume that the remaining NPA 403 and 780 CO Codes will be assigned prior to the exhaust of NPA 587 CO Codes in the NPAs 403 and 780 areas.