



Traffic Volumes Monthly Report May 2011

This report has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by this company or any employee or sub-consultant of this company with respect to its use by any other person.

This disclaimer shall apply notwithstanding that the report may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.

Quality Assurance Statement

Project Manager: Neil Beckett

Prepared by: Gerald Wen

Reviewed by: Neil Beckett

Approved for issue by: David Darwin

Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	7/6/2011	First draft	Gerald Wen	Neil Beckett	
2	8/6/2011	Final Version	Gerald Wen	Neil Beckett	David Darwin

Overview

Summary

The purpose of this document is to report on the monthly changes in traffic volumes on state highway. This report also covers annual state highway traffic trends for the period of 1989 to 2010.

The overall trend in state highway traffic growth for all and heavy vehicles, up to 2005, have continued to increase. But both indexes have seen fluctuations on their increase trend since 2006.

In May 2011, compared with May 2010, the monthly average daily traffic (MADT) for all vehicles decreased by 1.2%; and the MADT for heavy vehicles increased by 3%.

In this report

This report contains the following topics.

Topic	See Page
Overview	1
Technical Notes	2
Key Results	3
Results: All Vehicles	5
Results: Heavy Vehicles	6
Appendix	

Technical Notes

What is MADT and AADT

Monthly Average Daily Traffic (MADT) is the average of daily traffic volume measured in a given month.

A more commonly reported statistical term is Annual Average Daily Traffic (AADT), which measures the average of daily traffic volume over a given calendar year.

Purpose

Monthly Average Daily Traffic (MADT) reporting enables us to provide a month-by-month indication of traffic trends, and to allow the effects of specific events (e.g. storms, fuel price shifts, economy, etc.) to be monitored.

Sample coverage

There are 104 telemetry¹ sites in use on the state highway network to provide this traffic data.

The table below shows the number of sites in each NZ Transport Agency region. These numbers represent the sample sizes that are used to report the regional MADT results.

NZ Transport Agency Region	Number of Telemetry Sites
Northland and Auckland	19
Waikato and Bay of Plenty	23
Taranaki, Manawatu-Wanganui, Hawkes Bay and Gisborne	16
Wellington, Nelson, Marlborough and Tasman	16
Canterbury and West Coast	14
Otago and Southland	16

Sources of variation in MADT

The number of weekends in a specific month can affect the MADT comparison between years. Also, public holidays that can occur in different months can also affect the ability for direct comparison between years. This report does not attempt to compensate for these variations.

¹ Telemetry sites are continuously monitored 24/7.

Key Results

The State Highway Traffic Volume Indexed growth measures the change in traffic volume compared to 1989.

Overall

The overall trends in traffic volume for all and heavy vehicles, up to 2005, have continued to increase.

Over the last 10 years, the average annual growth for all vehicles using the State Highway network is approximately 1.5%, and approximately 3% for heavy vehicles.

The all vehicle index shows no significant change for the past five years. The heavy vehicle index has fluctuated for the past five years, but shows an average monthly growth of approximately 3% over the past 12 months when compared to the same month in the previous year. This is in line with the average annual growth of approximately 3% over the past 10 years.

After experiencing the first significant reduction of heavy vehicle volumes in 2009, for the last two decades, 2010 has seen the index for heavy vehicles using the State Highway network increase.

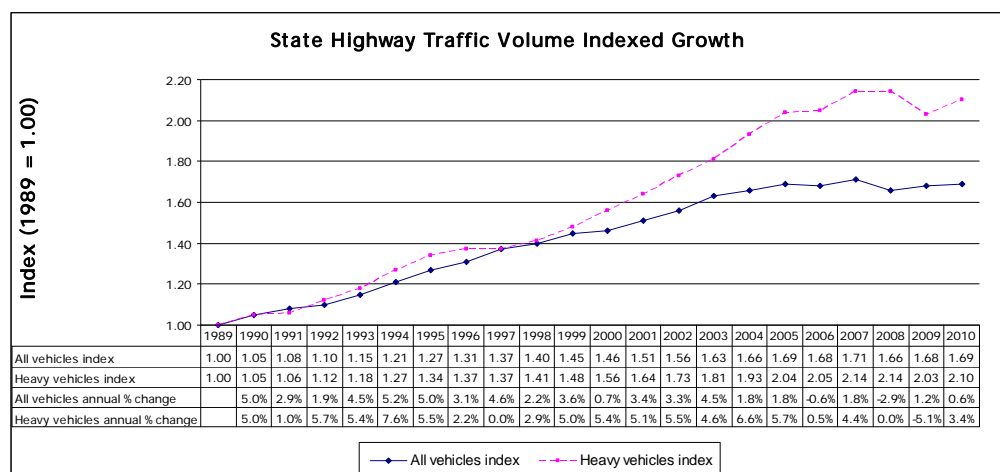
2010 All Vehicles

In 2010, there has been an increase of approximately 0.6% in the total number of vehicles using the State Highway network, compared to 2009.

2010 Heavy Vehicles

There has been an increase of approximately 3.4% in the total number of heavy vehicles using the State Highway network, compared to 2009.

The percentage of very long heavy vehicles (>17m) increased by approximately 6%, compared to 2009.



**Results:
Monthly
traffic at key
sites**

Five key sites have been selected to represent five main centres in NZ.

The MADT values for April 2011, April 2010 and percentage of difference compared are reported in the table below.

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) May-10	MADT (All Vehicles) May-11	% Change
Auckland harbour bridge (SH1)	Auckland	157751	151012	-4%
Greenwood (SH1)	Hamilton	21625	21977	2%
Ngauranga Interchange (SH 1 and SH2 combined)	Wellington	88597	88407	0%
Waimakariri Bridge	Christchurch	36496	44343	22%
Burnside	Dunedin	26231	25803	-2%

In May 2011, the MADT values changed for the sites representing all centres, other than Christchurch, ranging from +2% Hamilton to -4% Auckland, Christchurch increased by 22% which is likely to be as a result of increased construction traffic.

Please note:

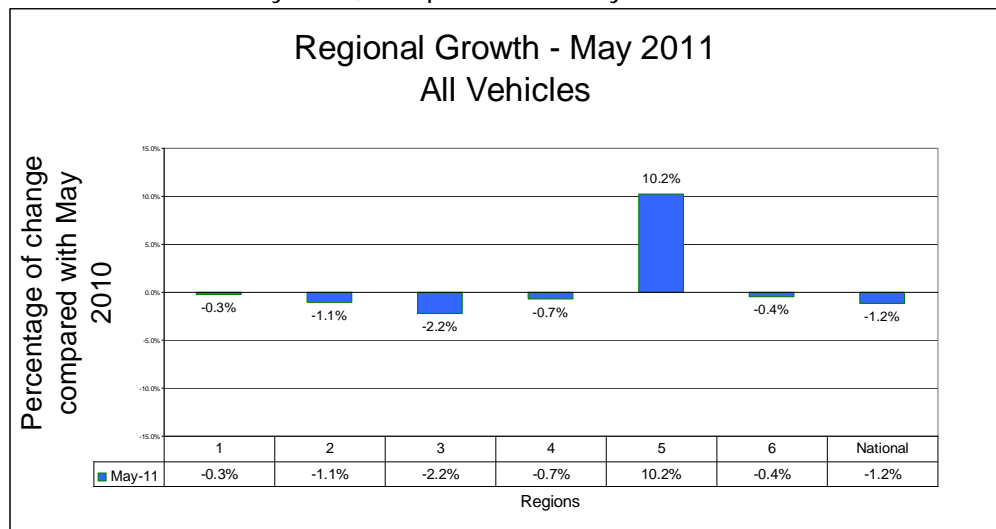
The required accuracy for the delivery of data at a single site is +/- 5%, so the above figures may be within this tolerance.

Results: All Vehicles

Regions

Comparisons across the NZ Transport Agency regions have also been carried out.

The graph below shows the percentage of difference compared with the same period in 2010. The MADT values here represent all vehicle types. It can be observed that most regions indicated a decrease, except region 5 which showed an increase of 10.2%. Nationally, the MADT in May 2011 for all vehicles decreased by 1.2%, compared with May 2010.



NZTA Region Number	NZTA Region
1	Northland and Auckland
2	Waikato and Bay of Plenty
3	Taranaki, Manawatu-Wanganui, Hawkes Bay and Gisborne
4	Wellington, Nelson, Marlborough and Tasman
5	Canterbury and West Coast
6	Otago and Southland

Regional MADT Growth (All vehicles) – Sum of weighted MADT (All vehicles) percentage change compared with the same month previous year from each telemetry site in a region.

National MADT Growth (All vehicles) – Average of MADT (All vehicles) percentage change compared with the same month previous year from all telemetry sites (not weighted).

More graphs

The graphs (as above) dated back to January 2007 are attached to this report.

All sites

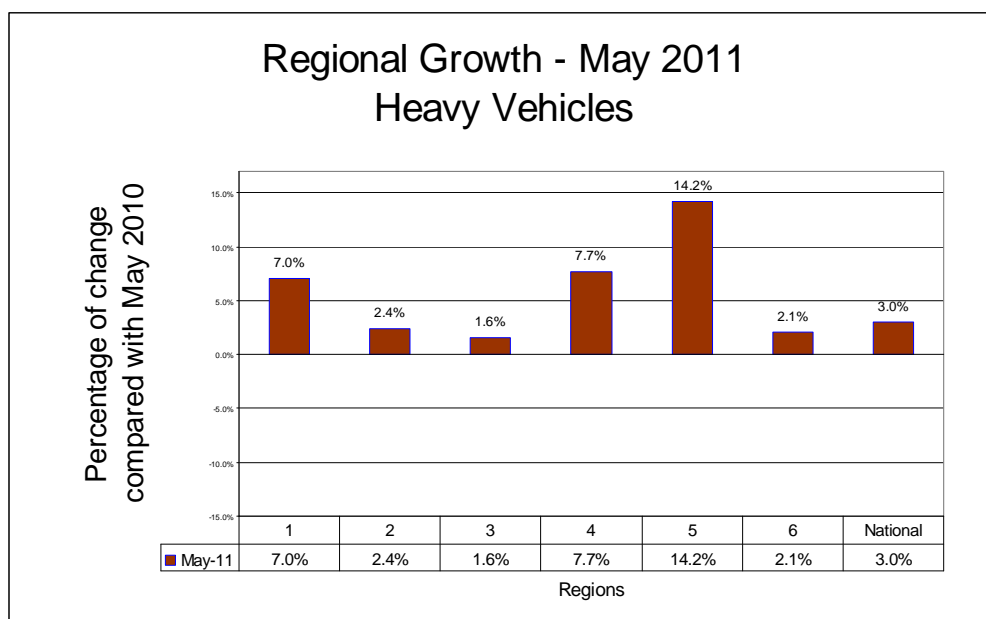
A table of MADT (all vehicles) values for all national telemetry sites is attached to this report.

Results: Heavy Vehicles

Regions

Comparisons across the NZ Transport Agency regions have also been carried out, focusing on heavy vehicles¹.

The graph below shows the percentage of difference compared with the same period in 2010. The MADT values here represent heavy vehicles only. It can be observed that all regions had an increase of between 1.6% and 14.2%. Nationally, the MADT in May 2011 for heavy vehicles increased by 3%, compared with May 2010.



NZTA Region Number	NZTA Region
1	Northland and Auckland
2	Waikato and Bay of Plenty
3	Taranaki, Manawatu-Wanganui, Hawkes Bay and Gisborne
4	Wellington, Nelson, Marlborough and Tasman
5	Canterbury and West Coast
6	Otago and Southland

Regional MADT Growth (Heavy vehicles) – Sum of weighted MADT (Heavy vehicles) percentage change compared with the same month previous year from each telemetry site in a region.

National MADT Growth (Heavy vehicles) – Average of MADT (Heavy vehicles) percentage change compared with the same month previous year from all telemetry sites (not weighted).

More graphs

The graphs (as above) dated back to January 2007 are attached to this report.

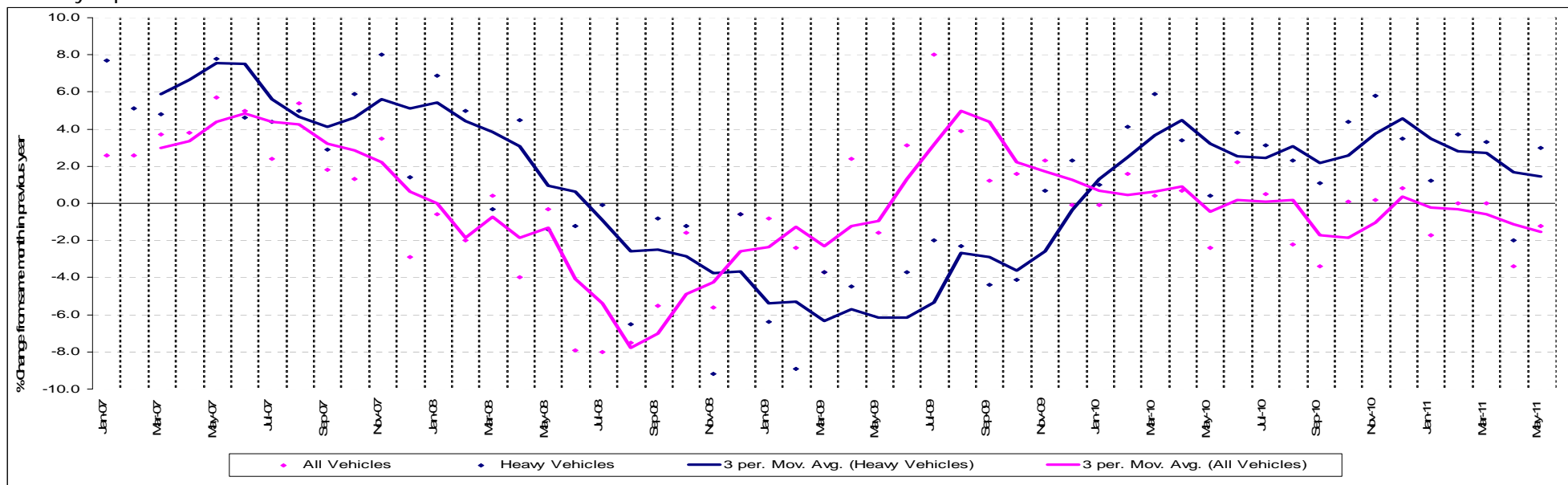
All sites

A table of MADT (heavy vehicles) values for all national telemetry sites for 2010 is attached to this report.

¹ Heavy vehicles are those with a gross vehicle mass exceeding 3.5 tonnes.

Summary of Percentage Change from Same Month in Previous Year

The graph and table below shows 5 years national percentage change from same month in previous year, summarising the figures published in previous monthly reports.



Month	All Vehicles	Heavy Vehicles	Month	All Vehicles	Heavy Vehicles	Month	All Vehicles	Heavy Vehicles	Month	All Vehicles	Heavy Vehicles	Month	All Vehicles	Heavy Vehicles
Jan - 07	2.6	7.7	Jan - 08	-0.6	6.9	Jan - 09	-0.8	-6.4	Jan - 10	-0.1	1.0	Jan - 11	-1.7	1.2
Feb - 07	2.6	5.1	Feb - 08	-2.0	5.0	Feb - 09	-2.4	-8.9	Feb - 10	1.6	4.1	Feb - 11	0.0	3.7
Mar - 07	3.7	4.8	Mar - 08	0.4	-0.3	Mar - 09	-3.7	-3.7	Mar - 10	0.4	5.9	Mar - 11	0.0	3.3
Apr - 07	3.8	10.1	Apr - 08	-4.0	4.5	Apr - 09	2.4	-4.5	Apr - 10	0.7	3.4	Apr - 11	-3.4	-2.0
May - 07	5.7	7.8	May - 08	-0.3	-1.4	May - 09	-1.6	-10.3	May - 10	-2.4	0.4	May - 11	-1.2	3.0
Jun - 07	5.0	4.6	Jun - 08	-7.9	-1.2	Jun - 09	3.1	-3.7	Jun - 10	2.2	3.8	Jun - 11		
Jul - 07	2.4	4.4	Jul - 08	-8.0	-0.1	Jul - 09	8.0	-2.0	Jul - 10	0.5	3.1	Jul - 11		
Aug - 07	5.4	5.0	Aug - 08	-7.5	-6.5	Aug - 09	3.9	-2.3	Aug - 10	-2.2	2.3	Aug - 11		
Sep - 07	1.8	2.9	Sep - 08	-5.5	-0.8	Sep - 09	1.2	-4.4	Sep - 10	-3.4	1.1	Sep - 11		
Oct - 07	1.3	5.9	Oct - 08	-1.6	-1.2	Oct - 09	1.6	-4.1	Oct - 10	0.1	4.4	Oct - 11		
Nov - 07	3.5	8.0	Nov - 08	-5.6	-9.2	Nov - 09	2.3	0.7	Nov - 10	0.2	5.8	Nov - 11		
Dec - 07	-2.9	1.4	Dec - 08	-0.6	-0.6	Dec - 09	-0.1	2.3	Dec - 10	0.8	3.5	Dec - 11		

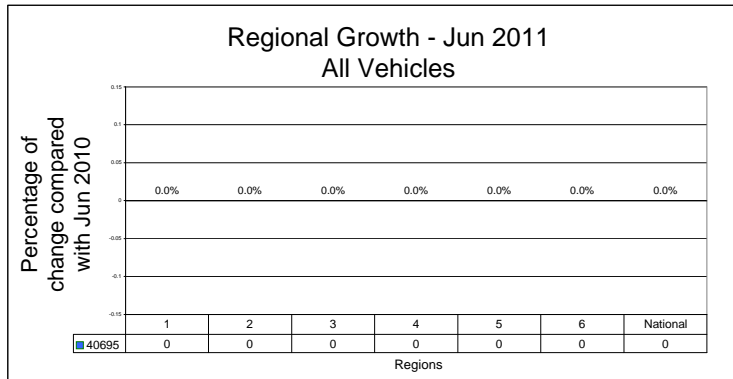
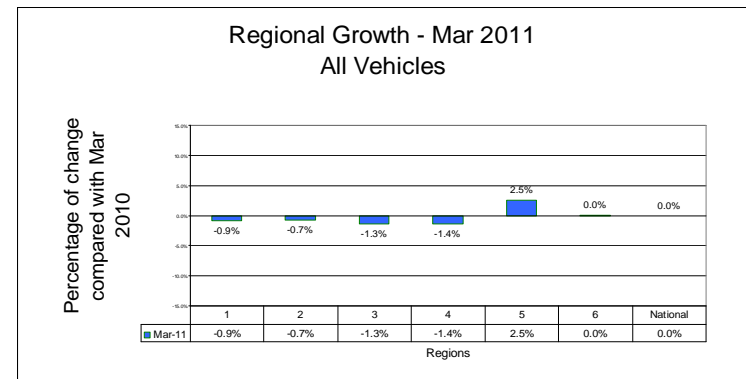
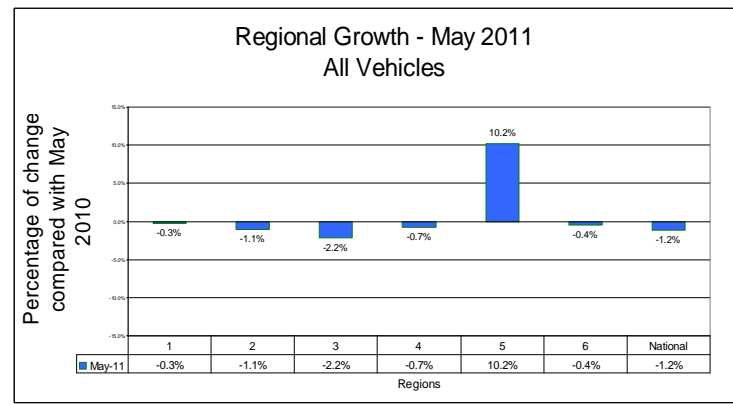
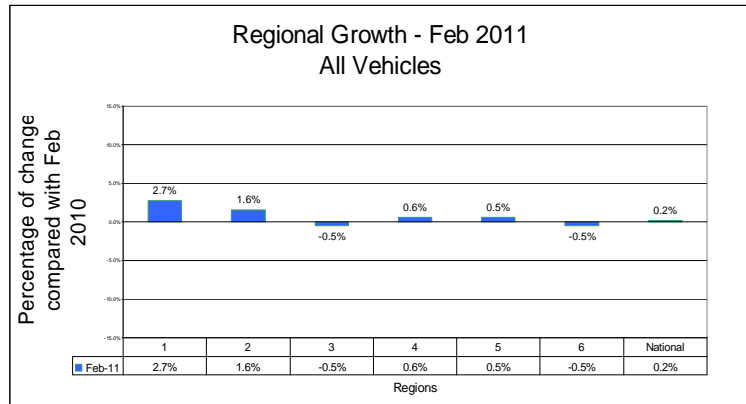
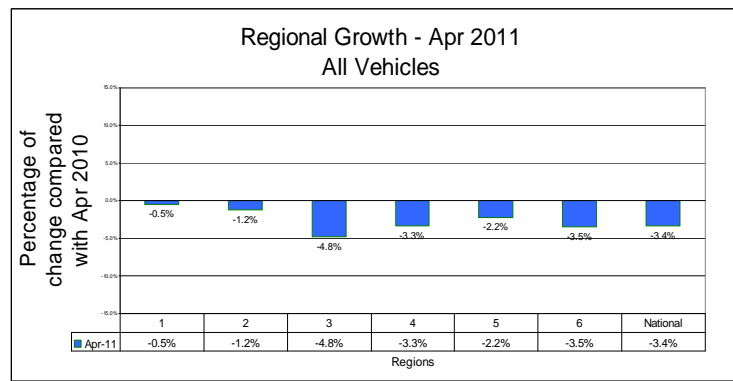
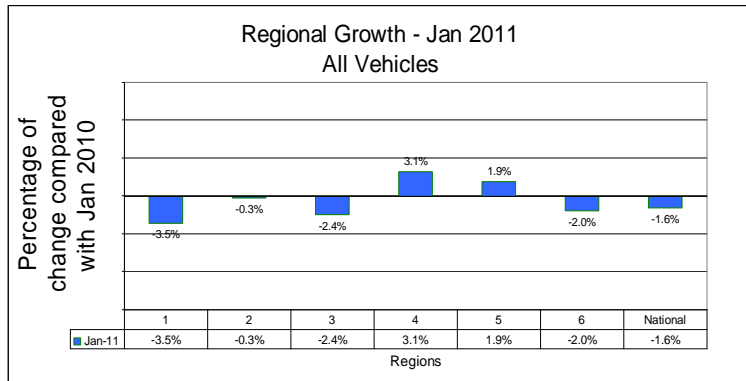
Appendices

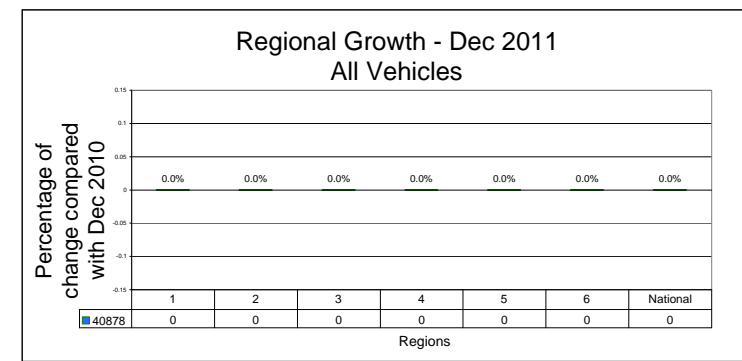
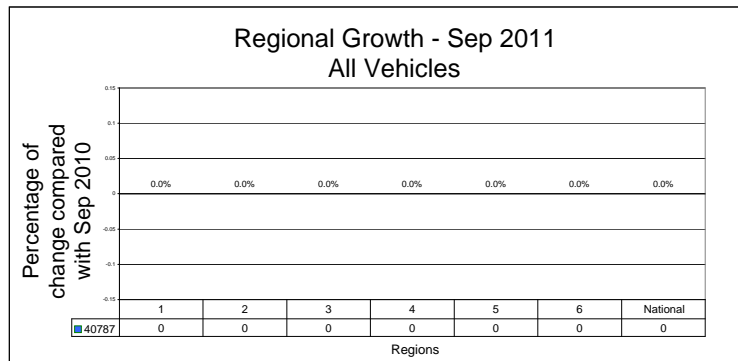
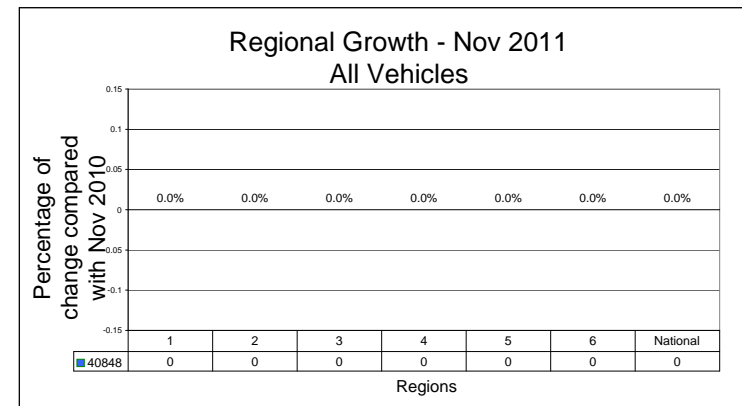
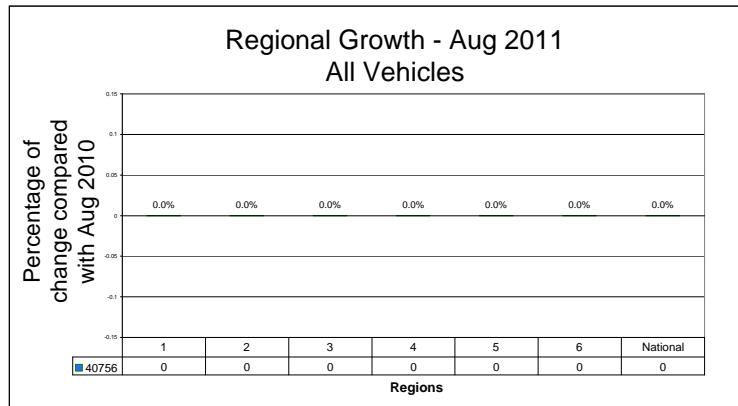
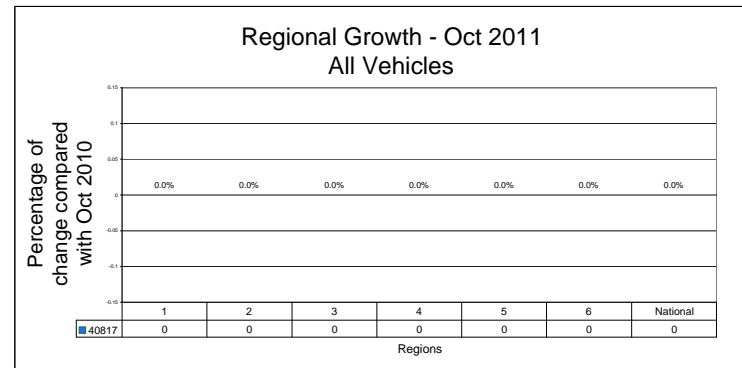
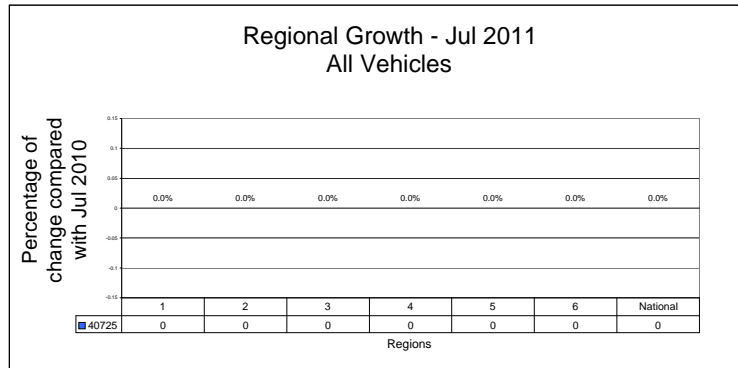
Current and Previous Years Growth Graphs: 2011, 2010, 2009 and 2008

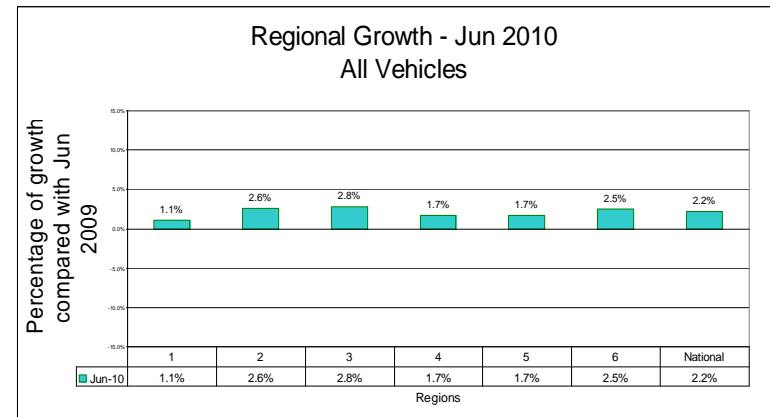
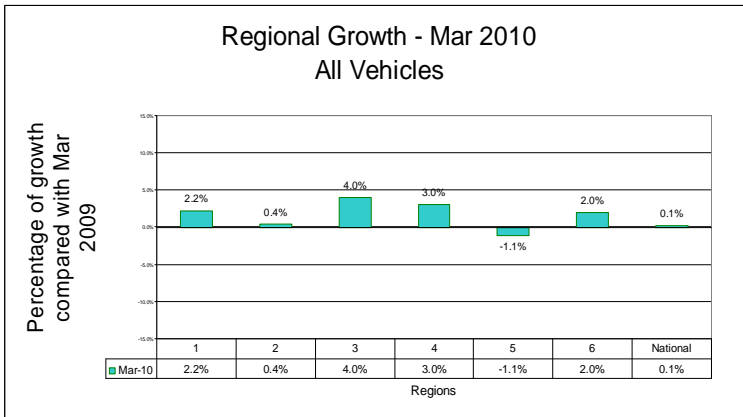
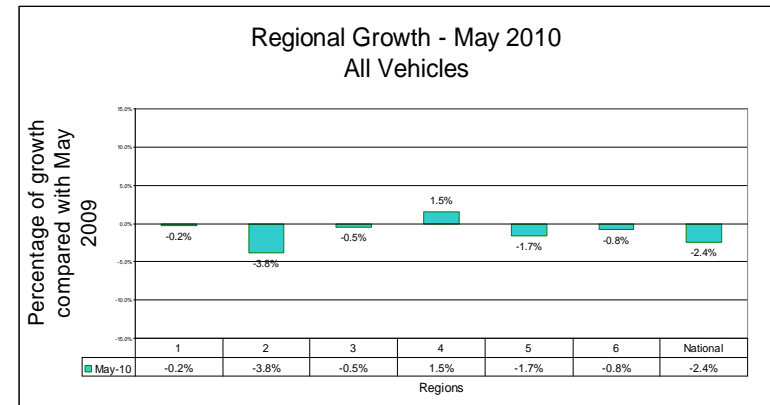
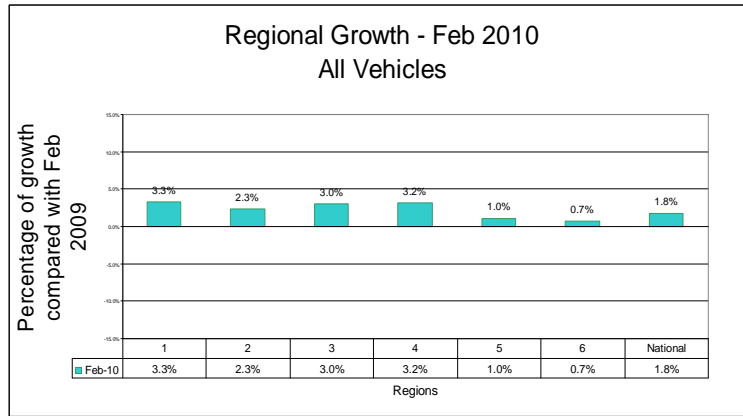
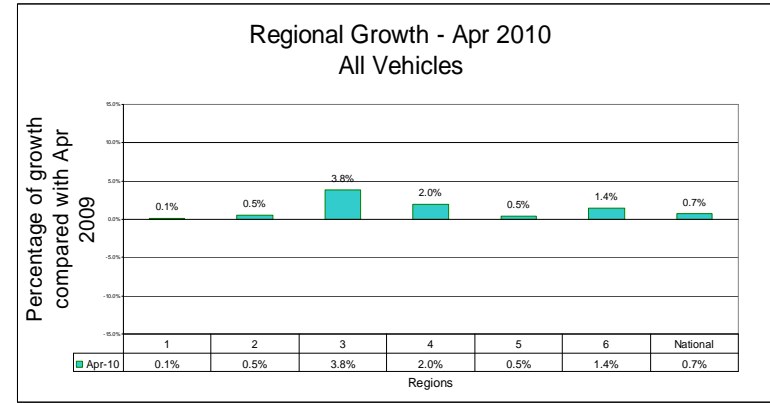
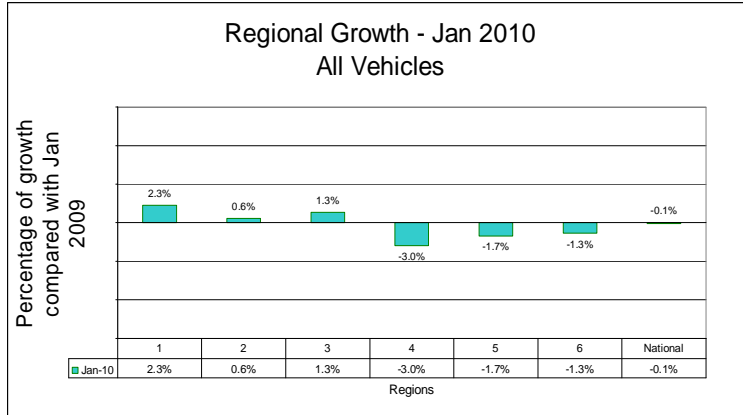
- All Vehicles
- Heavy Vehicles

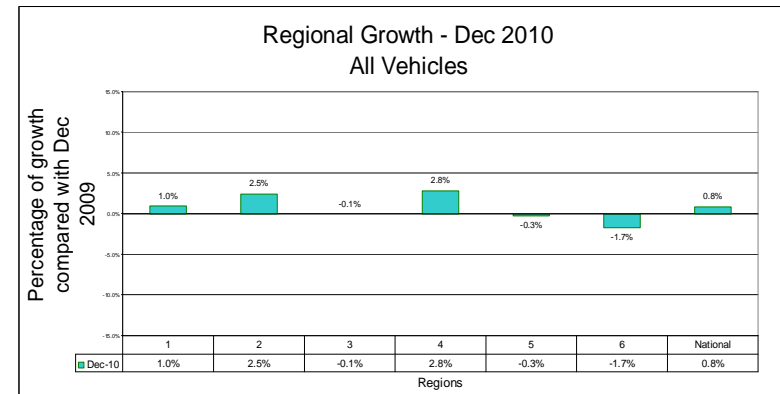
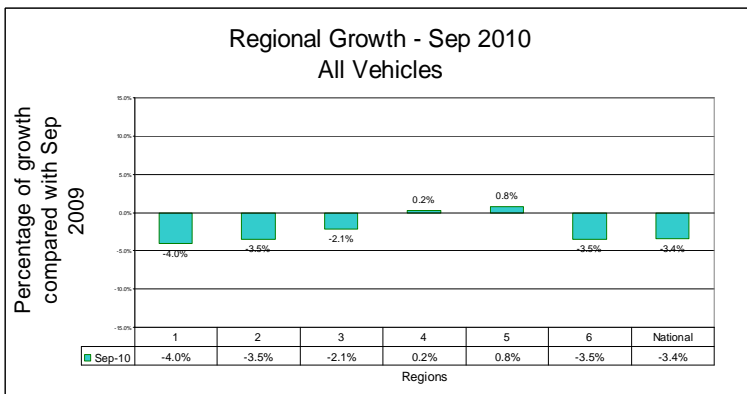
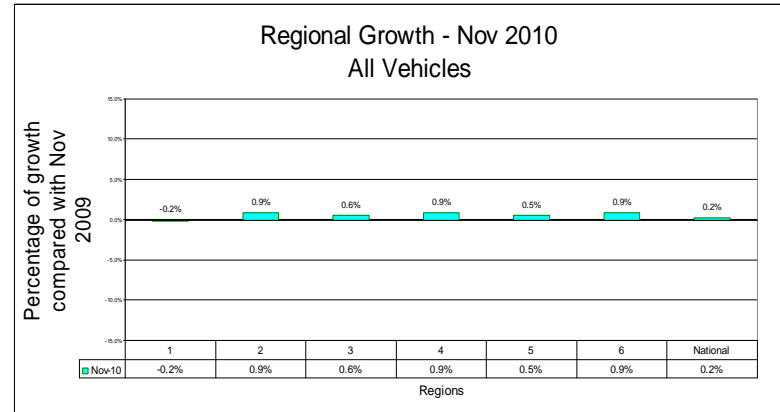
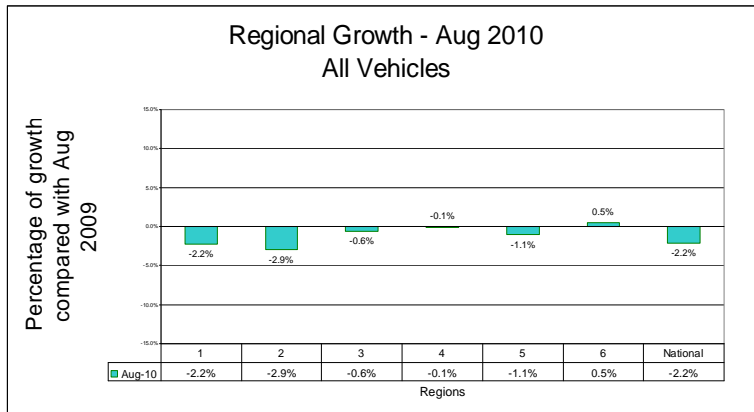
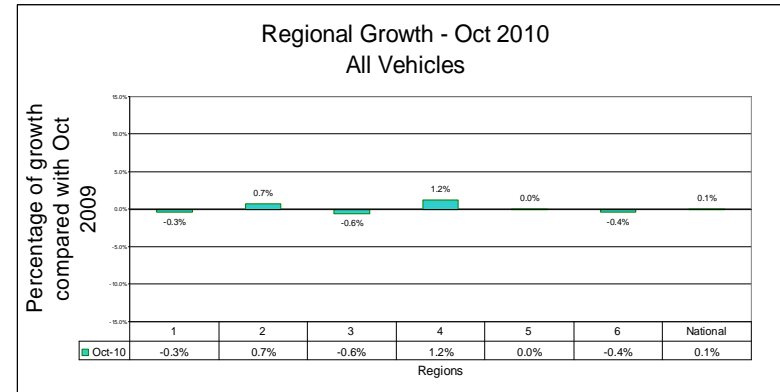
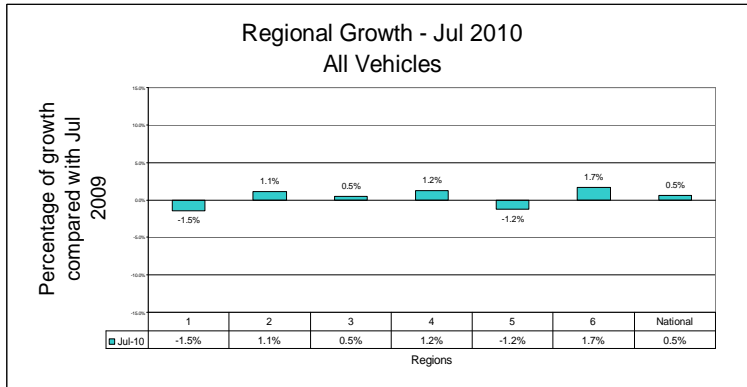
Telemetry Site MADT's for the past thirteen months

- All Vehicles
- Heavy Vehicles

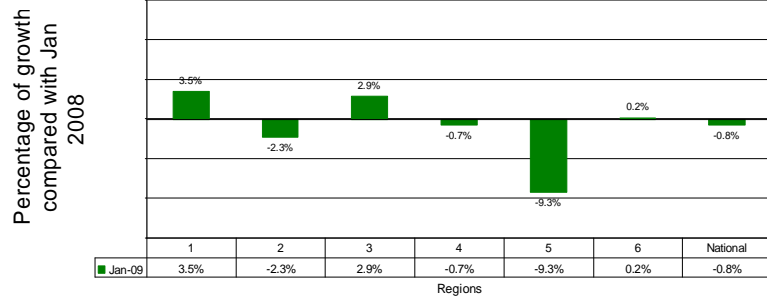




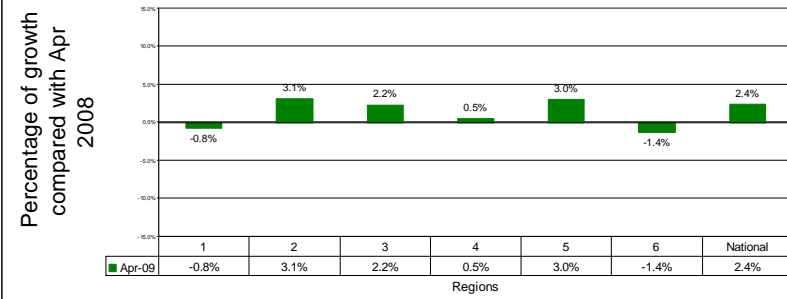




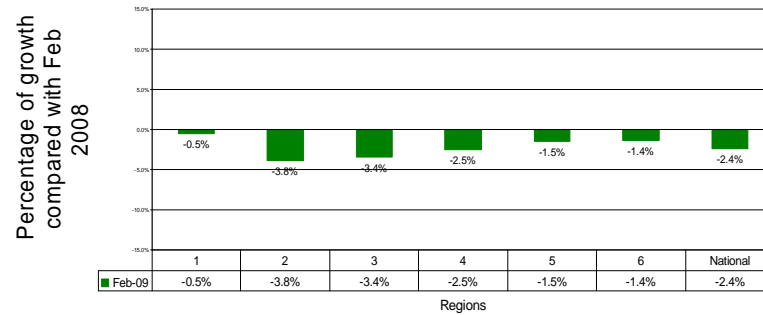
Regional Growth - Jan 2009
All Vehicles



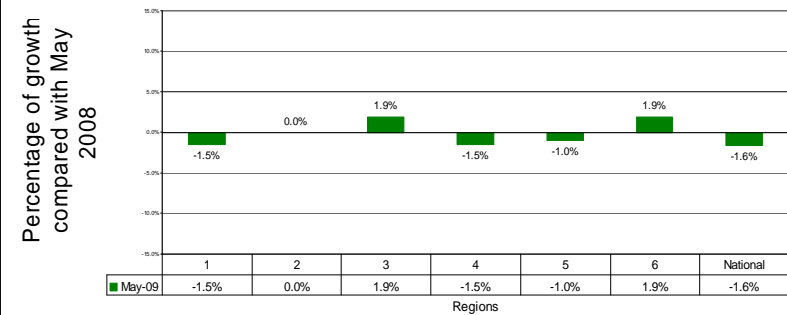
Regional Growth - Apr 2009
All Vehicles



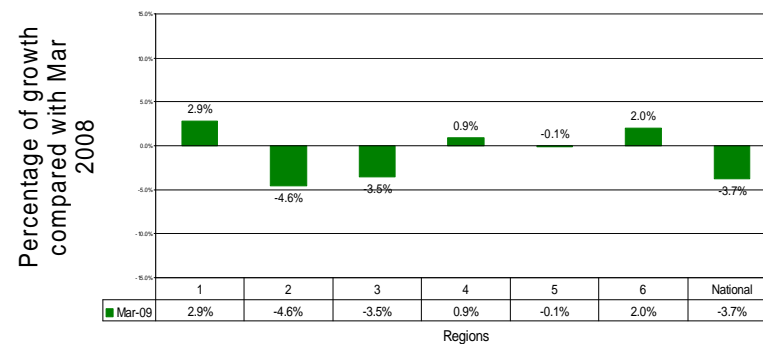
Regional Growth - Feb 2009
All Vehicles



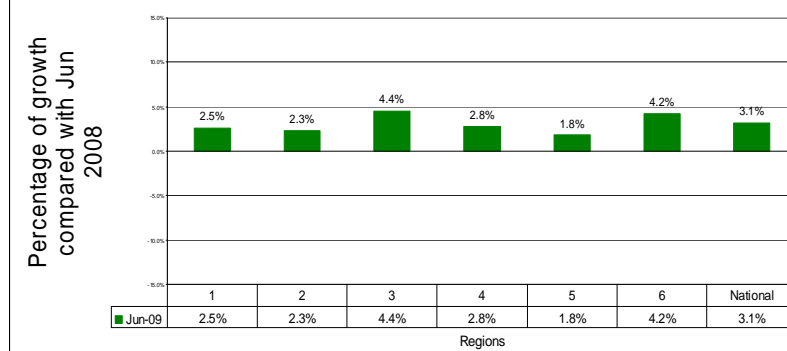
Regional Growth - May 2009
All Vehicles



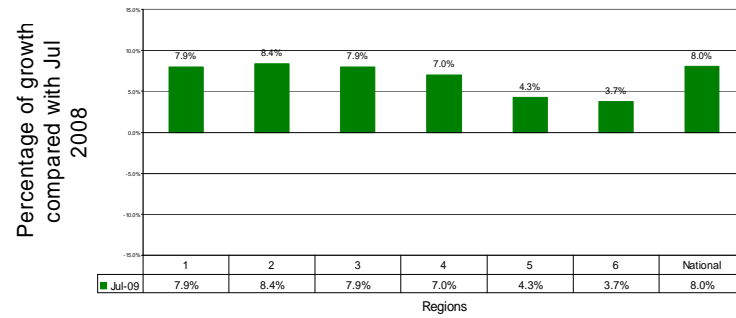
Regional Growth - Mar 2009
All Vehicles



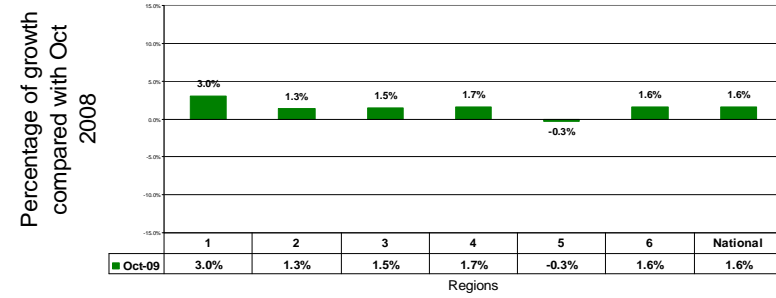
Regional Growth - Jun 2009
All Vehicles



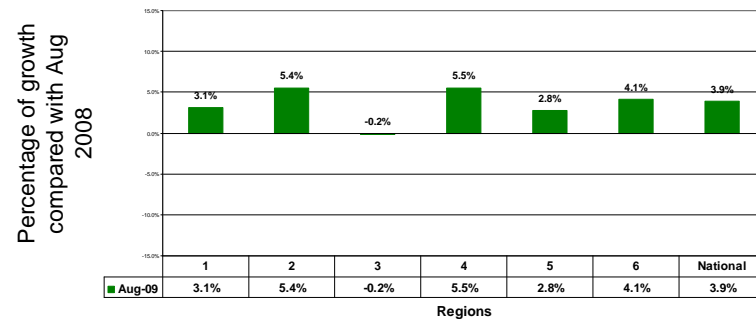
Regional Growth - Jul 2009
All Vehicles



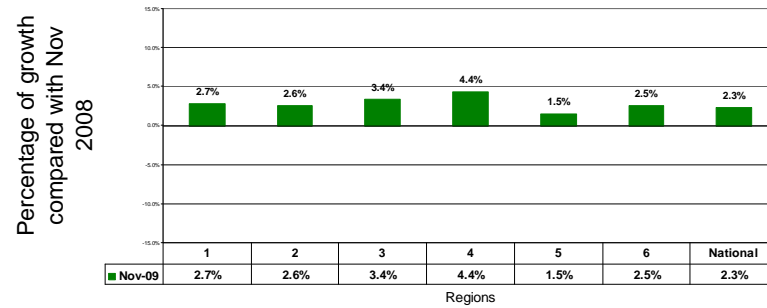
Regional Growth - Oct 2009
All Vehicles



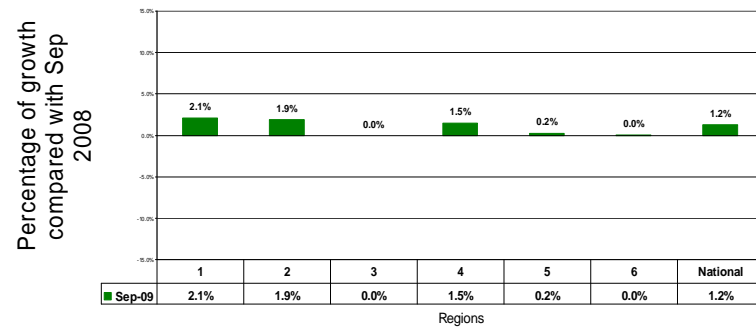
Regional Growth - Aug 2009
All Vehicles



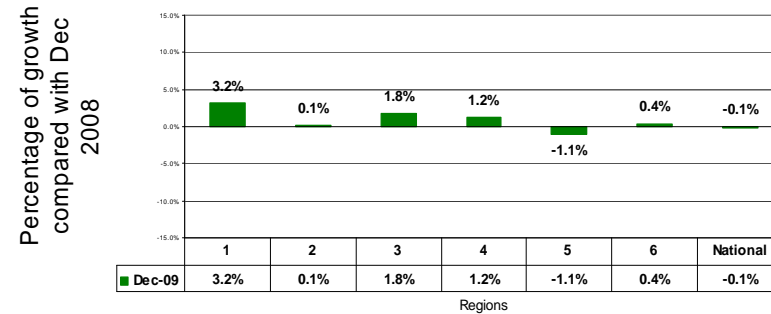
Regional Growth - Nov 2009
All Vehicles



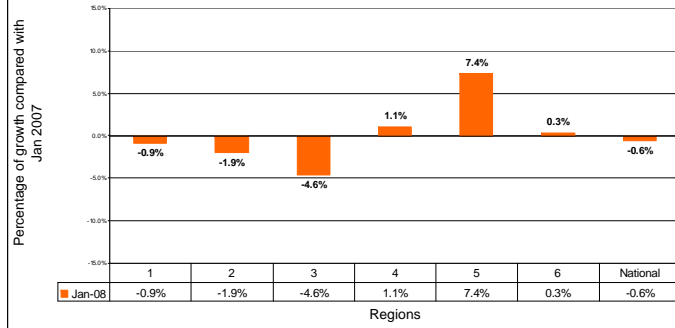
Regional Growth - Sep 2009
All Vehicles



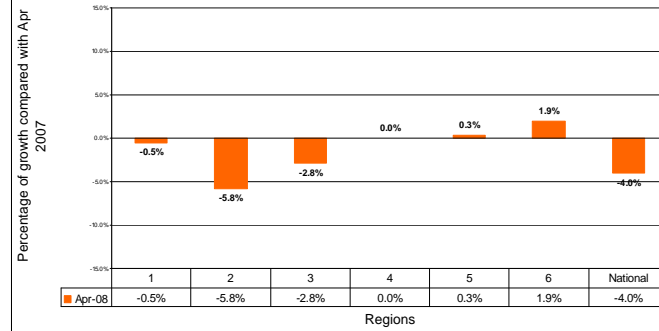
Regional Growth - Dec 2009
All Vehicles



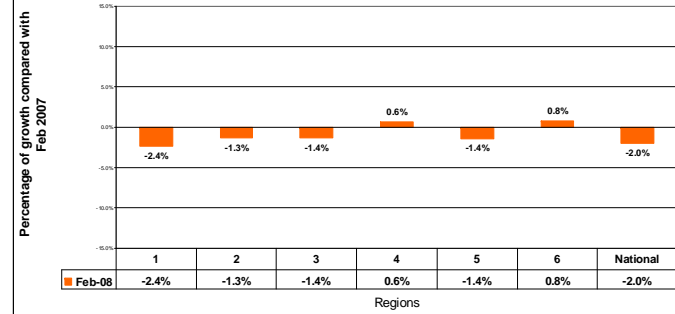
Regional Growth - Jan 2008
All Vehicles



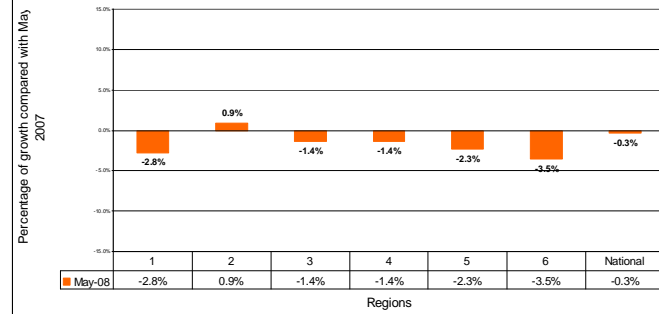
Regional Growth - Apr 2008
All Vehicles



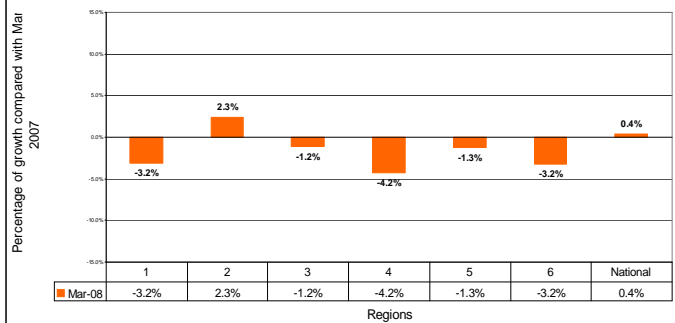
Regional Growth - Feb 2008
All Vehicles



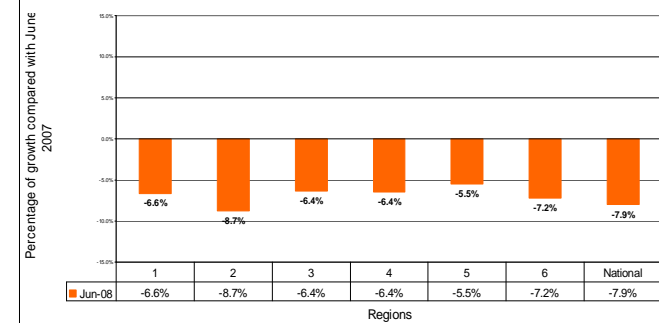
Regional Growth - May 2008
All Vehicles



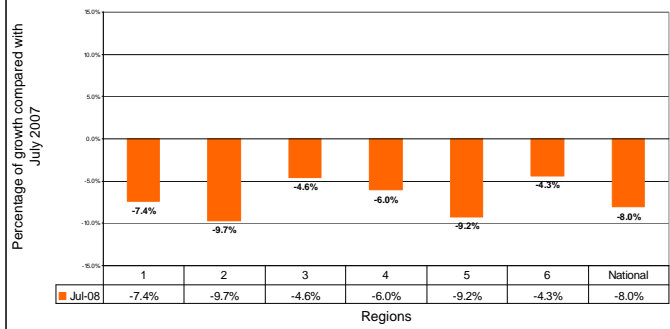
Regional Growth - Mar 2008
All Vehicles



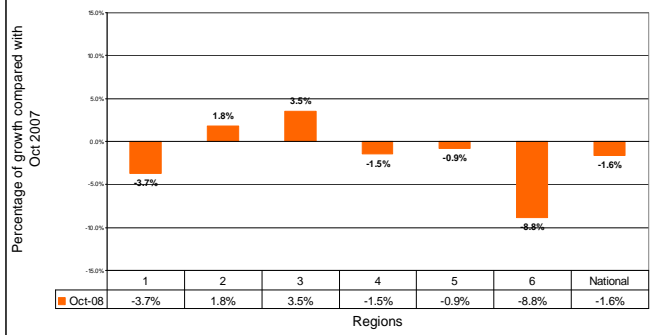
Regional Growth - June 2008
All Vehicles



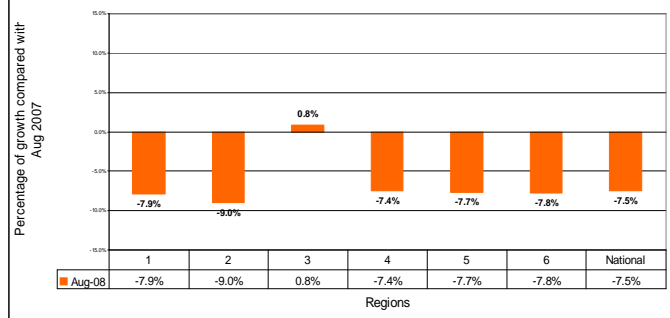
Regional Growth - July 2008
All Vehicles



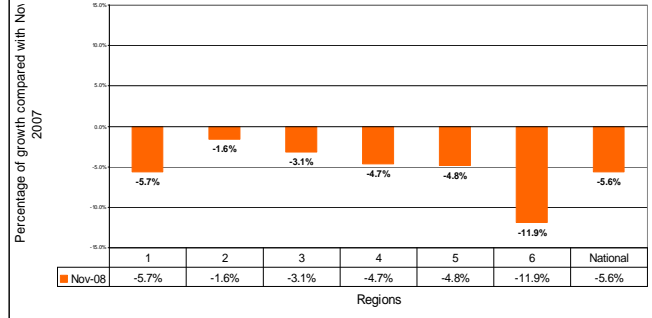
Regional Growth - Oct 2008
All Vehicles



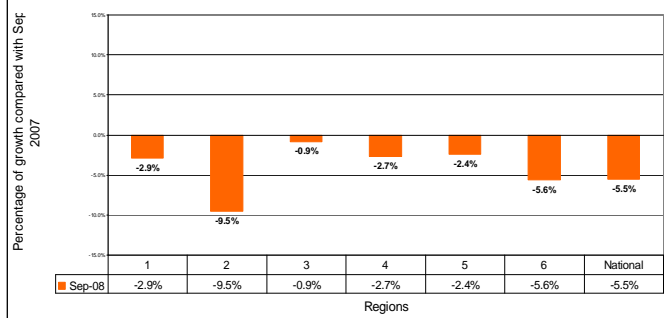
Regional Growth - Aug 2008
All Vehicles



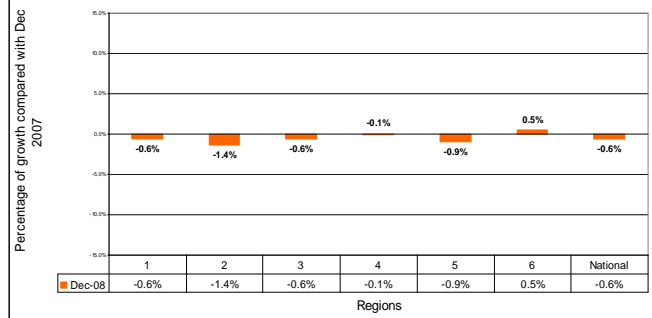
Regional Growth - Nov 2008
All Vehicles

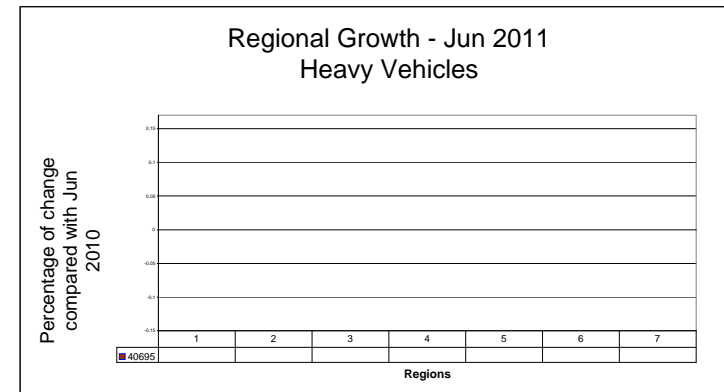
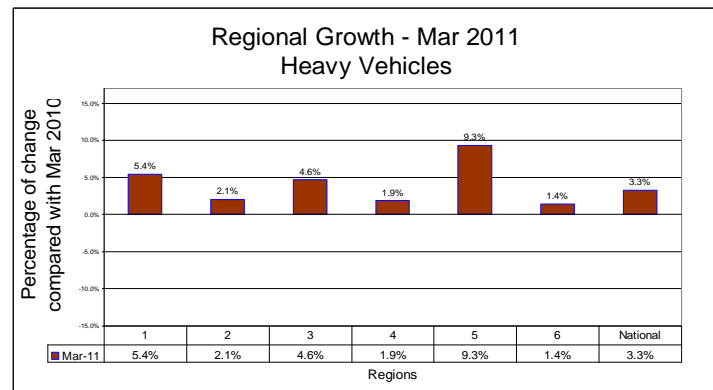
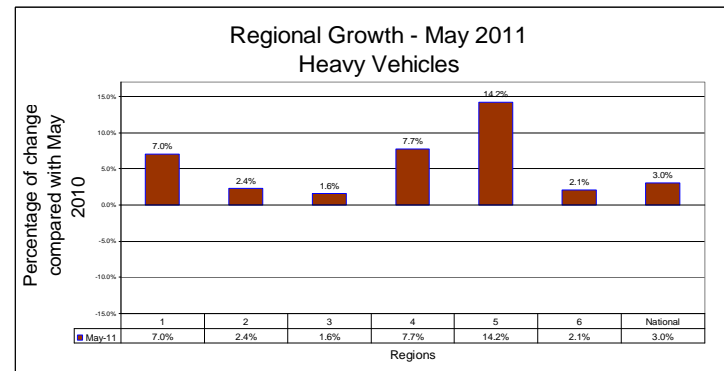
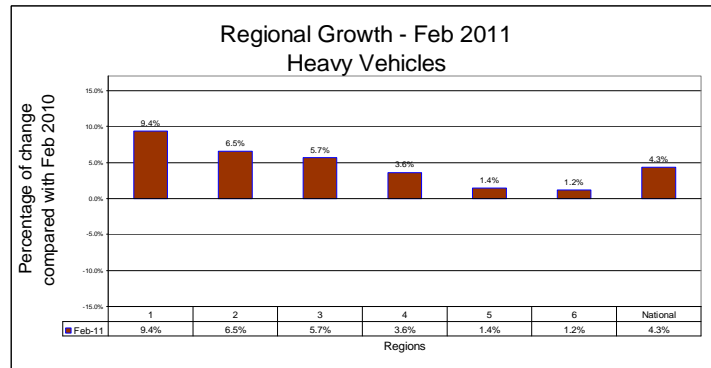
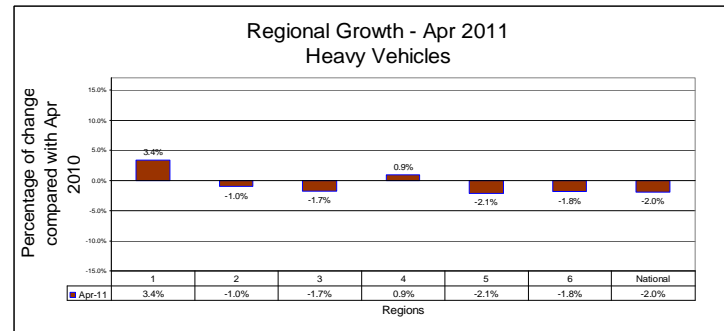
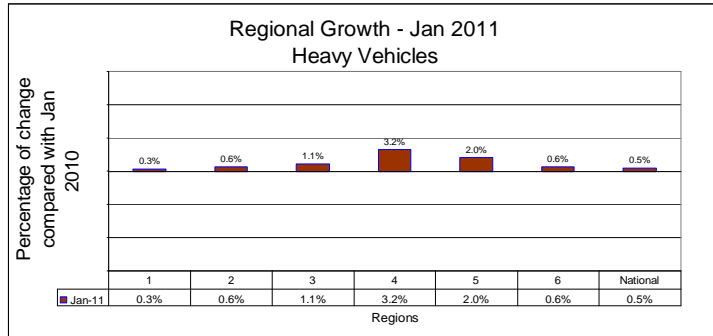


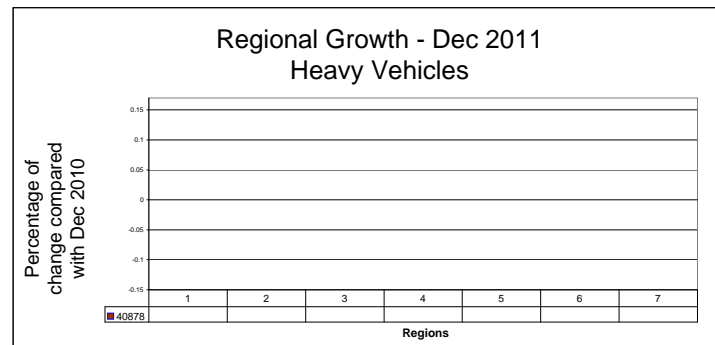
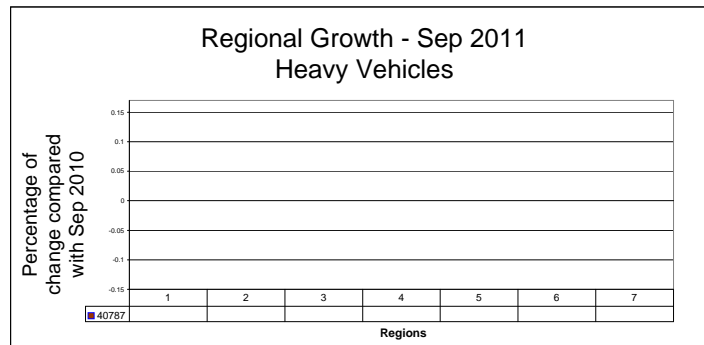
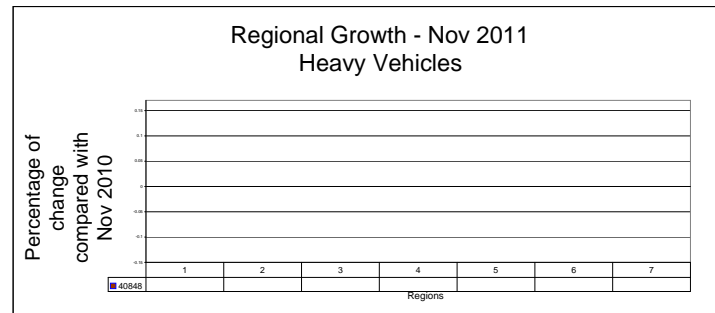
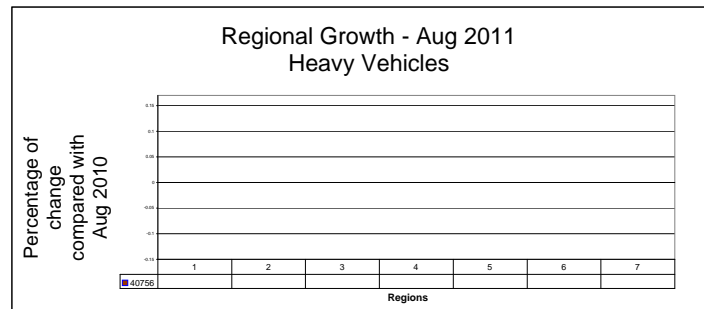
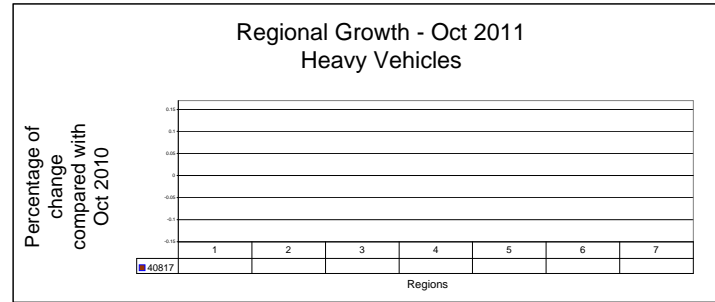
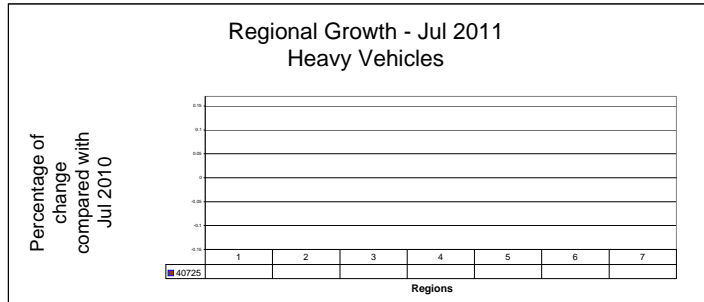
Regional Growth - Sep 2008
All Vehicles



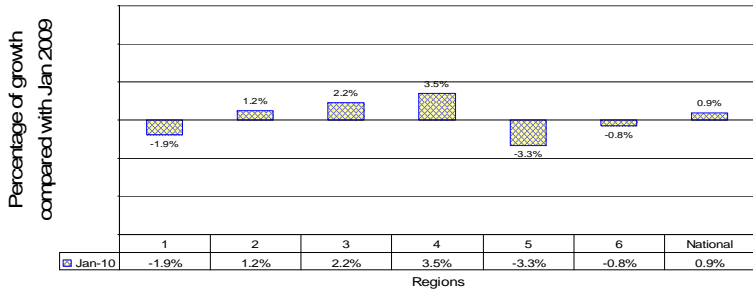
Regional Growth - Dec 2008
All Vehicles



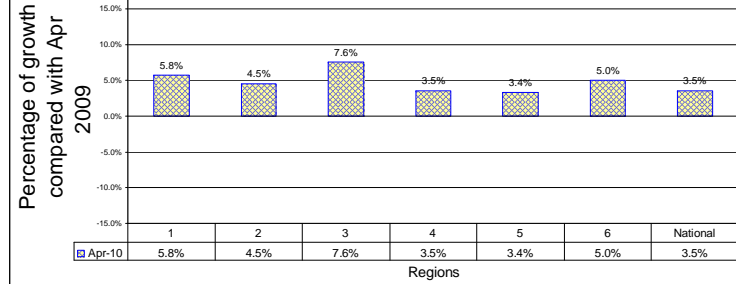




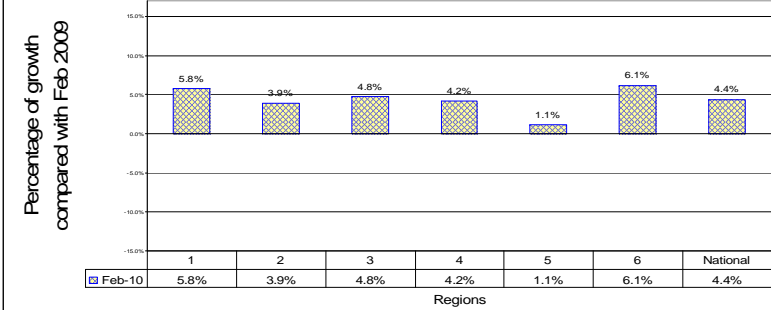
Regional Growth - Jan 2010
Heavy Vehicles



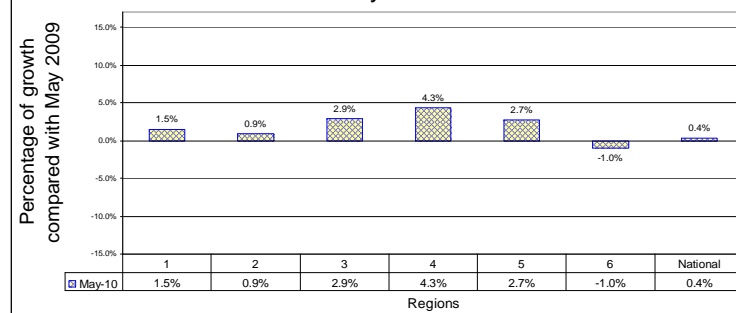
Regional Growth - Apr 2010
Heavy Vehicles



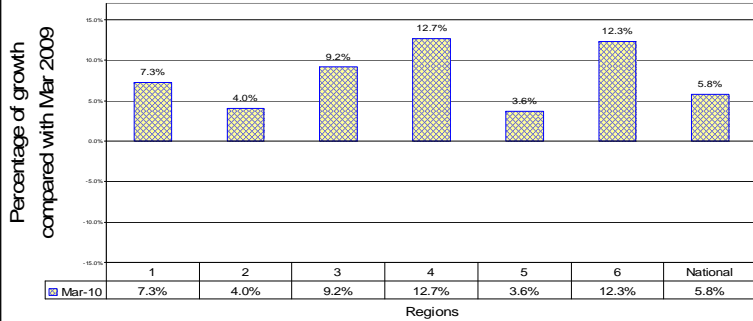
Regional Growth - Feb 2010
Heavy Vehicles



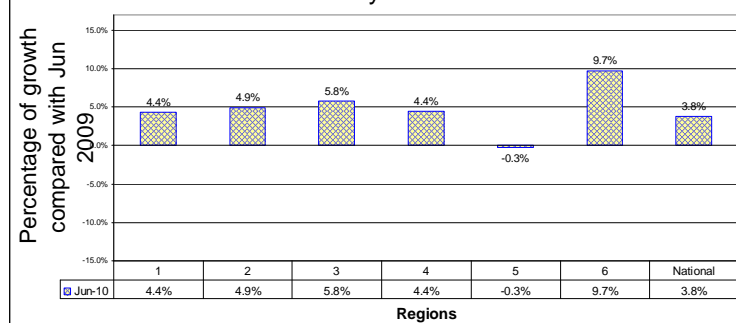
Regional Growth - May 2010
Heavy Vehicles

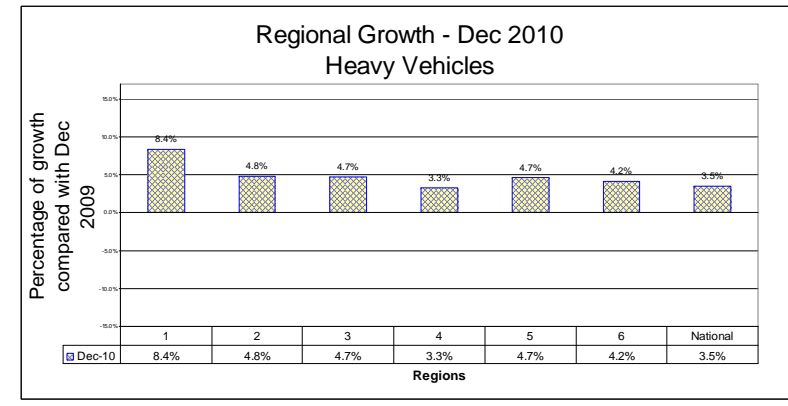
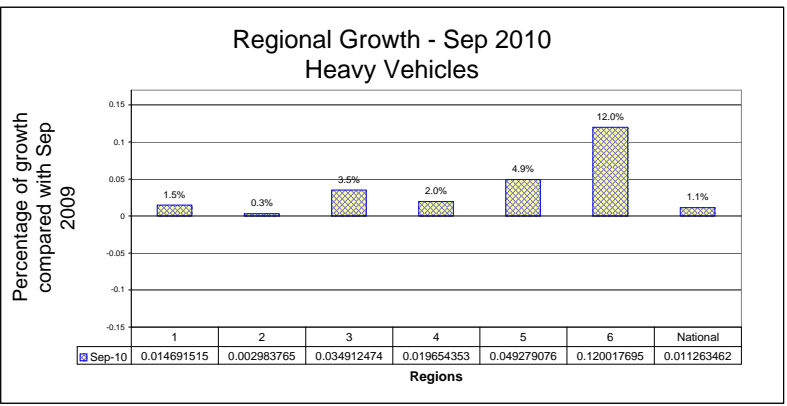
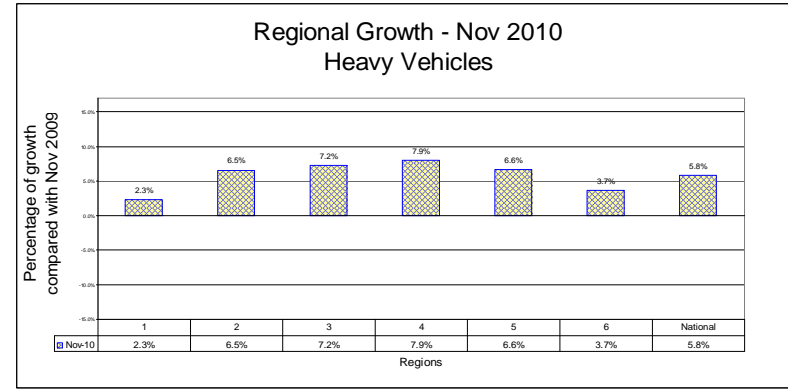
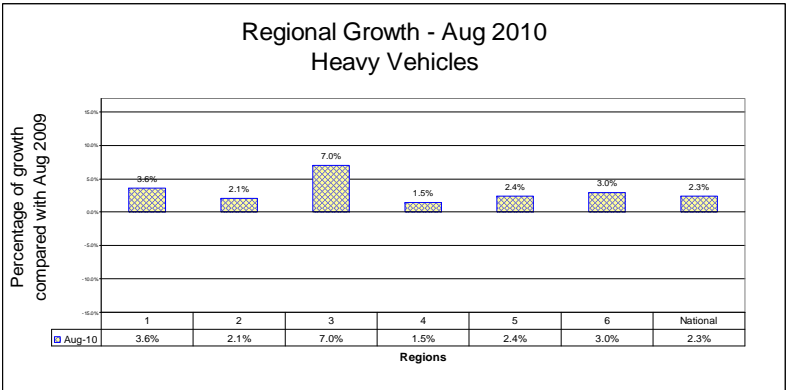
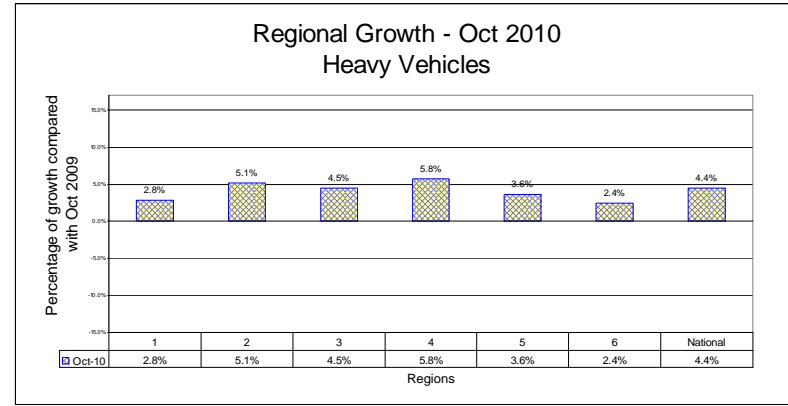
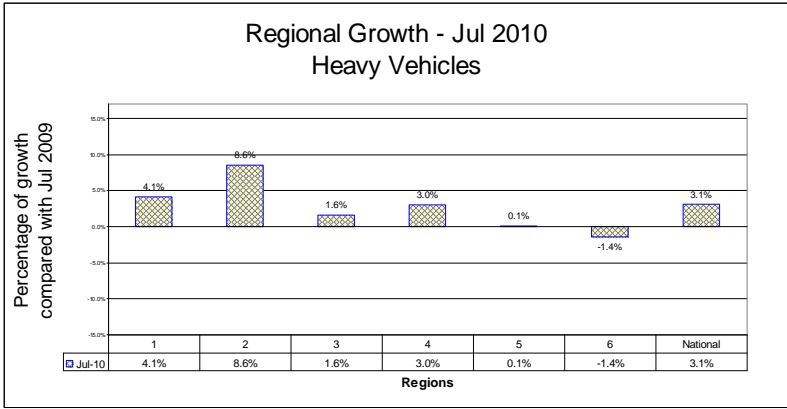


Regional Growth - Mar 2010
Heavy Vehicles

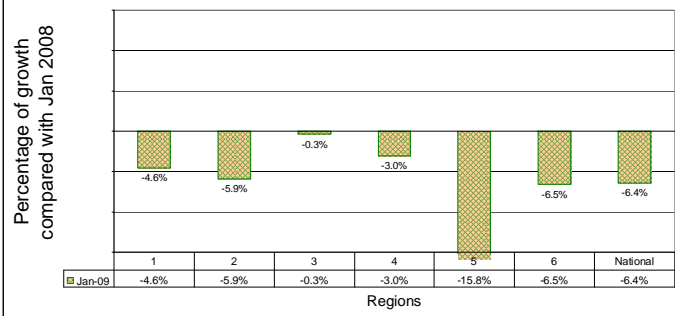


Regional Growth - Jun 2010
Heavy Vehicles

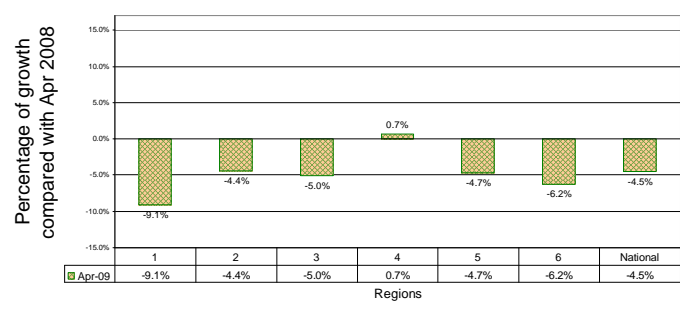




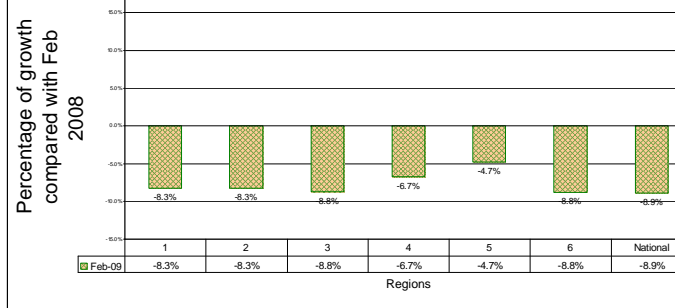
Regional Growth - Jan 2009
Heavy Vehicles



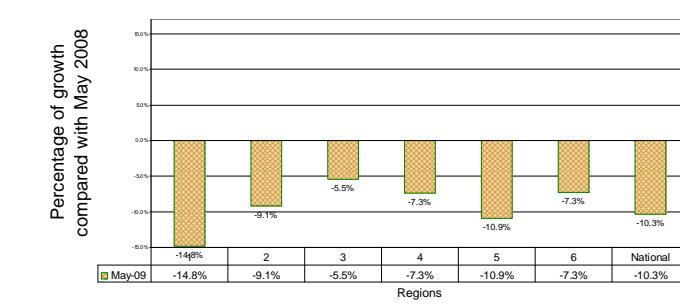
Regional Growth - Apr 2009
Heavy Vehicles



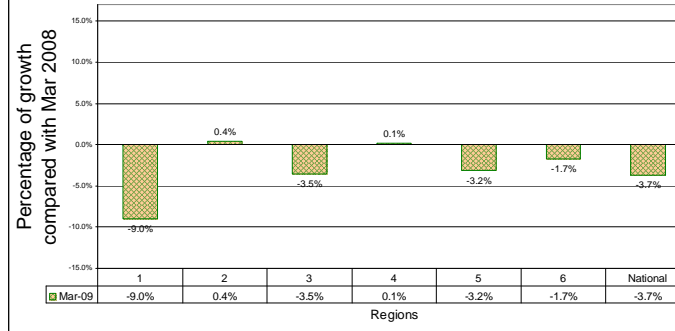
Regional Growth - Feb 2009
Heavy Vehicles



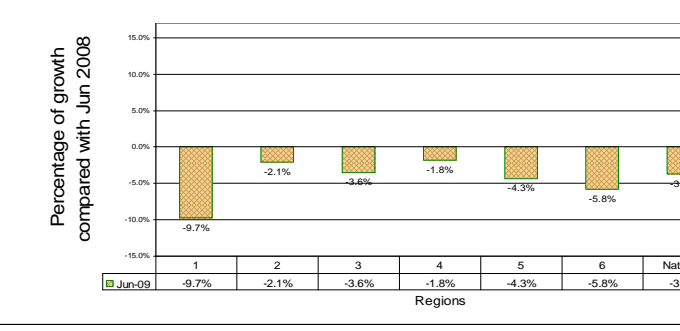
Regional Growth - May 2009
Heavy Vehicles

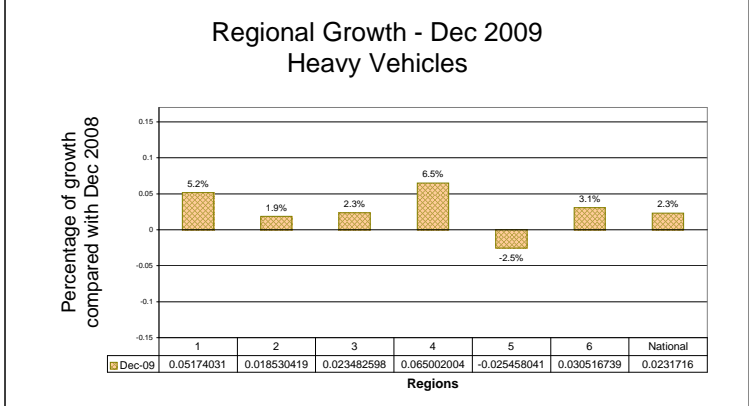
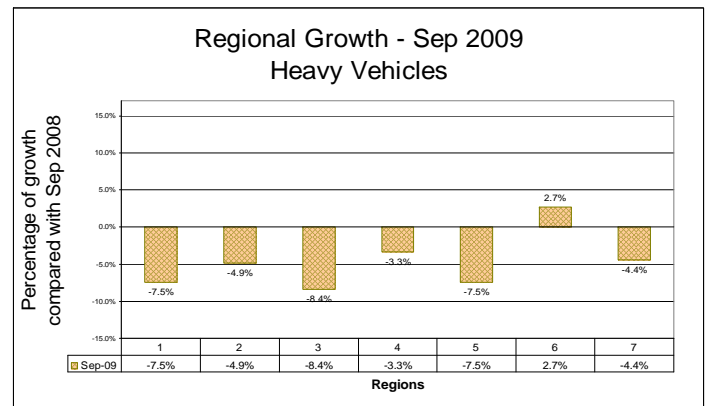
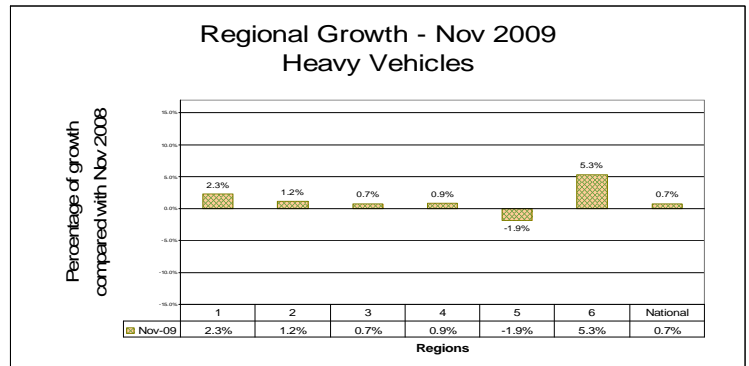
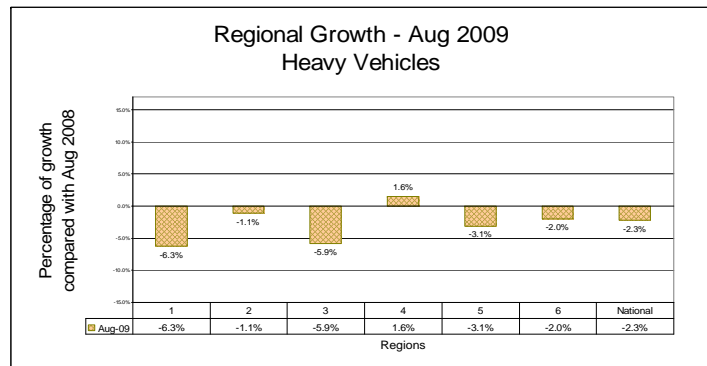
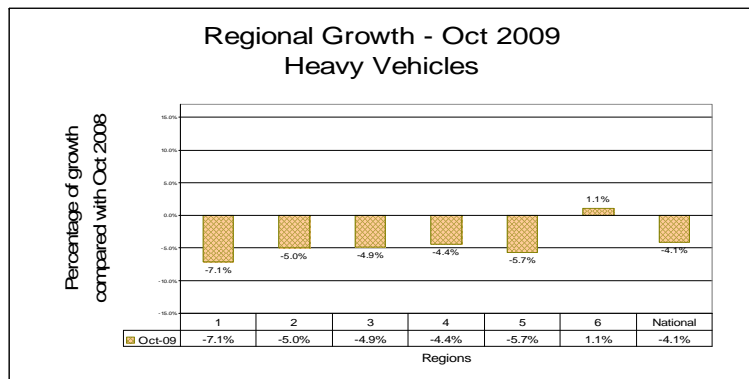
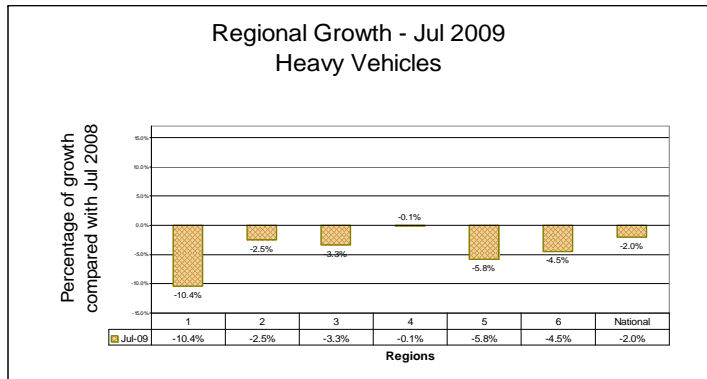


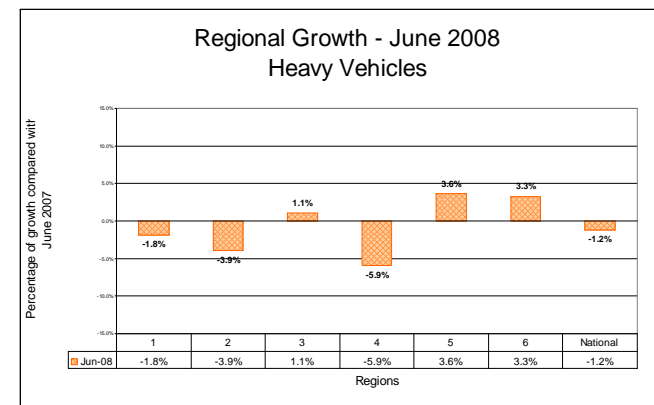
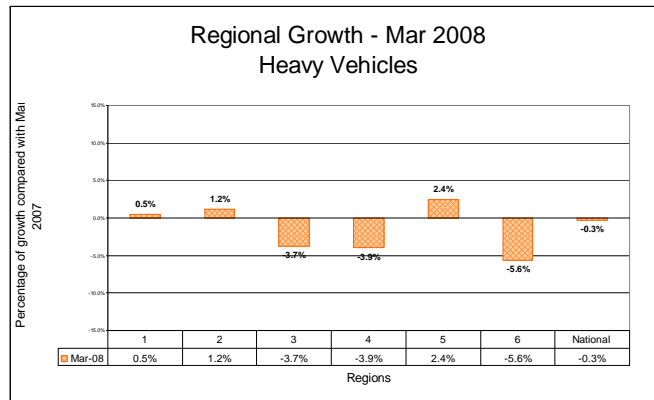
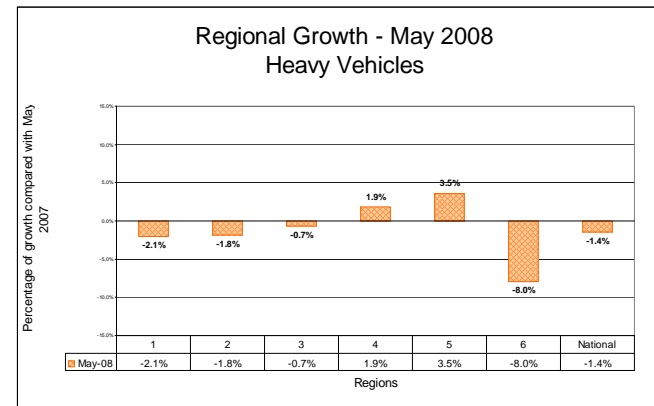
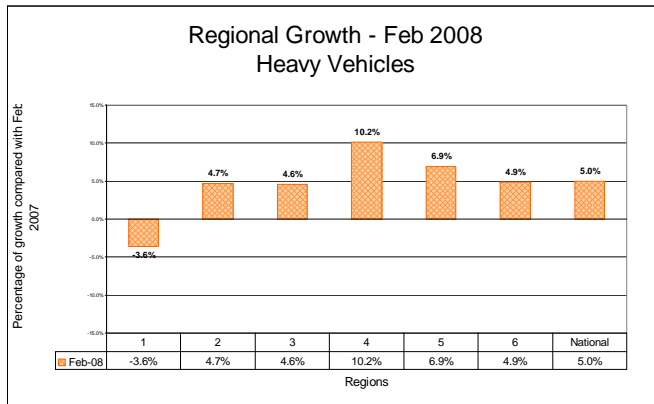
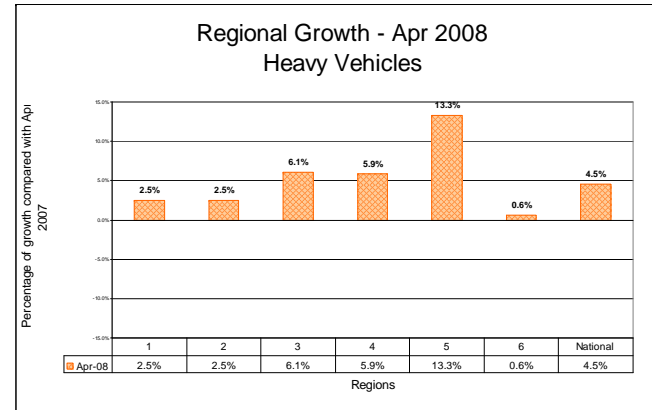
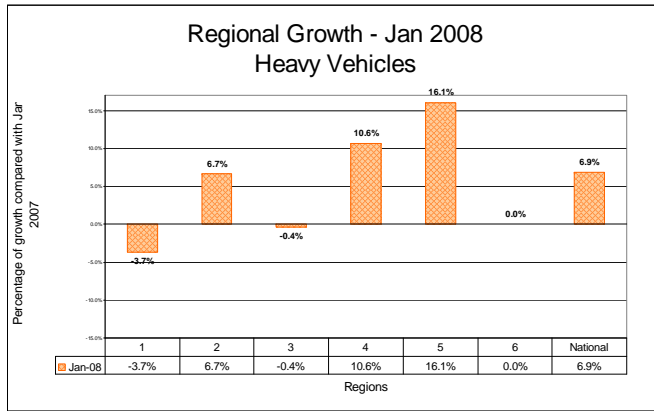
Regional Growth - Mar 2009
Heavy Vehicles



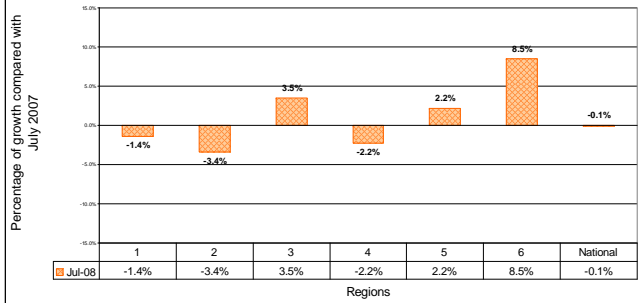
Regional Growth - Jun 2009
Heavy Vehicles



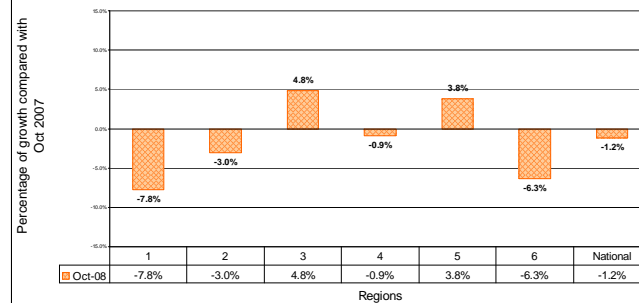




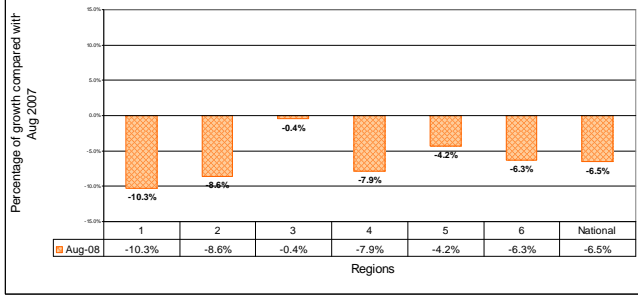
Regional Growth - July 2008
Heavy Vehicles



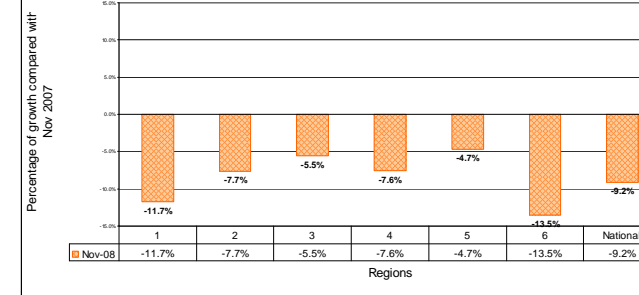
Regional Growth - Oct 2008
Heavy Vehicles



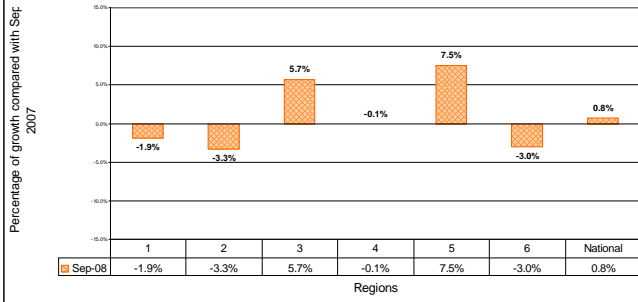
Regional Growth - Aug 2008
Heavy Vehicles



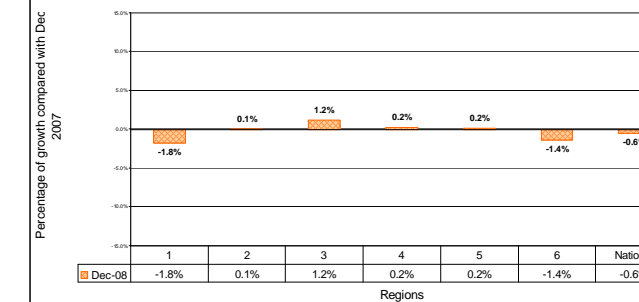
Regional Growth - Nov 2008
Heavy Vehicles



Regional Growth - Sep 2008
Heavy Vehicles



Regional Growth - Dec 2008
Heavy Vehicles



Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11
1	ID:01N00212	KAWAKAWA	5345	5351	5401	5159	5299	6147	6032	6969	7245	6565	6077	6330	5169
1	ID:01000029	Sth of Takou Bay Rd	3085	3081			3149		3532	4670					
1	ID:01N00274	Nth of Maungakarema Rd				12234	12716			15383					
1	ID:01200220	East of Brynderwyn Brg 161	2595					2676	2786						
1	ID:01700006	HATFIELDS BEACH	5100	4862	5163	4802	4980	6060	5884	6486	6872	6394	5577	5661	4960
1	ID:01N10459	DRURY - SB (Park Estate)	27716	27361	28412	26845	27214	29305	30174	31548	29198	30712	29552	29756	27664
1	ID:01N20459	DRURY - NB (Park Estate)	27994	27475	28417	27078	27050	29555	30279	30307	30599	30881	29581	29834	27731
1	ID:01N00336	WELLSFORD - Nth of Mangawhai Rd	7941	7450	8127	7397	7456	9219	8737	10189	11778	9755	8898	9485	7682
1	ID:01N10440	PANAMA Rd - SB	59742			58579	56151			51665	49093		54687	52709	53366
1	ID:01N20440	PANAMA RD - NB	56372			55162	55062			56064	53164		58201	56563	56060
1	ID:01N10474	BOMBAY- SB	16117	16237	17120	15551	16287	18448	18064	20399	19452	18744	17642	18729	15926
1	ID:01N20474	BOMBAY - NB	16267	16211	16957	15689	15880	18409	18067	18936	20730	18757	17676	18710	16095
1	ID:01N00388	ALPURT	12291	11978	12661	11735	11944	14510	13997	16139	17725	15618	14088	14775	12362
1	ID:02000007	SH20 Puhinui Rd to Massey Rd	45931	45537	46421	47044	51606	54229	57748	55895	49413		57093	54302	55251
1	ID:01N00424	Auckland Harbour Brg - Centre Span	79507	78904	80092	76796	75033	75886	80207	75593	71873	78352	77723	73127	69488
1	ID:01N10424	Auckland Harbour Brg - Left Clip-on	38376	37096	37143	38957	40071	40220	41890	34846	31473	41901	40679	38050	36808
1	ID:01N20424	Auckland Harbour Brg - Right Clip-on	39868	36393	35581	37511	41253	41501	42320	43379	36469	42022	43238	39275	42916
2	ID:00200002	MAUNGATAWHIRI - West of Grahams Brg	11328	11300	12057	10854	11217	13769	13003	15574			13273	14087	11379
2	ID:25A00024	HIKUAKE - Telemetry Site 76 - 1.3km after Kitahi Rd	2387	2401	2484	2260	2338	3354	3024	4355	5688	3754	3352	3396	2264
2	ID:02700011	KAIHERE	3862	3793	4060	3693	3786	4463	4341	4741	4690	4626	4486	4994	3915
2	ID:01N00526	TAUPIRI - Nth of Gordonton Rd	19257	19825	20438	19082	19269	20775	21355	21702	20747	21234	20524	21380	19208
2	ID:01N00620	LICHFIELD - Sth of Baldwin Rd	8293	8340	8746	8017	8391	9314	9352	9841	9735	9660	9259	9614	8335
2	ID:00300085	TE KUIITI - Nth of 8 Mile Junction	3677	3954	4316	3890	3837	4347	4001	4366	4287	4109	4073	4231	3512
2	ID:03200074	West of Taupo	591	665	771	651	692	764	736	766	864	709	636	712	489
2	ID:01N00580	KARAPIRO	13671	14169	14169	13216	13346	14977	14953	15640	15796	15679	14795	15227	13312
2	ID:00200091	WAIHI - East of Samson Rd West	6729	6641	6981	6347	6470	7877	7475	8928	9593	8145	7328	7778	6628
2	ID:01N00729	HALLETT'S BAY	4271	4381	5366	4522	4696	5479	5292	6031	6917	5831	5206	5884	4121
2	ID:01N00628	TOKOROA - (WIM Site)	7634	7703	8119	7545	7803	8366	8398	9364	9337	9056	8601	8962	7650
2	ID:01N90552	GREENWOOD	21625	22054	22065	21436	21577	22213	23253	22434	19910	23029	22717	22339	21977
2	ID:00200141	TE PUNA - West of Snodgrass	15876	15343	15603	14877	15140	16201	17039	17924	17369	17396	16236	16039	15696
2	ID:03010149	TE NGA - East End of Puarenga Brg (Inc)	16625	16588	16761	16166	16230	17127	17635	18134	16699	17872	17477	16805	16299
2	ID:03020149	East end of Puarenga Brg (Dec)	16716	16644	16825	16277	16357	17298	17861	17884	17000	18004	17500	16789	16264
2	ID:00200204	OHINEPANEA - West of Rogers Rd	4555	4344	4558	4230	4361	4976	4990	5389	5457	5148	4801	4889	4441
2	ID:03000188	LAKE ROTOMA	2753	2807	2868	2597	2690	2936	2932	3284	3504	3231	2937	2951	2499
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	3836	3603	3854	3504	3589	4136	4137	4540	4946	4531	4142	4085	3745
2	ID:00500034	TARUKENGA - 4.7km West of Dalbeth Rd		4898	5183	4557	4632	5379	5182	5604	5663	5544	5061	5769	4549
2	ID:02900034	KAIMAI - 100m past Boulder Brg (Kaukumoutiti Stream)		8219	8361	7695	7737	8946	8882	9575	9526	9087	9030	9212	8080
2	ID:00500057	WAIPA - Sth of SH30	6574	6475	7001	6423	6652	7289	7359	7783	8166	8013	7408	7240	
2	ID:00200176	TE PUKE - (WIM Site)	19572	18109	18401	17771	17882	18749	19794	19977	18711	19884	19345	19220	
2	ID:00200242	AWAKERI	8332	8279	8634	8337	8607	8917	9327	9688	8874	9348	9505	8954	
3	ID:00200428	ORMOND	2185	2302	2229	2185	2166	2359	2435	2707	2472	2781	2437	2317	2144
3	ID:03500320	OKITU	2924	2900	2767	2732	2951	3194	3437	4271	4237	3732	3418	3227	3007
3	ID:00200627	TANGOIO	1898	1835	1808	1826	1790	2030	2079	2332	2447	2360	2070	1923	1810
3	ID:00500230	TE POHUE - 1km Nth of Oakmere Station Gateway	1824	2382	2510	2237	2334	2819	2724	3136	3339	3237	3090	2945	
3	ID:05000010	Nth of Tutakuri River	21287	21525	20567	20807	20809	20988	22820	22638	20807	23309	23140	21308	21077
3	ID:00300171	TONGAPORUTU Brg	1738	1915	1884	1679	1702	2170	2046	2273	2535	2157	2151	2126	1647
3	ID:00300267	TARIKI	8615	8615	8535	8288	8139	8756	9326	9203	8470	9057	8994	8796	8517
3	ID:00300370	WAITOTARA	3184	3066	3354	3116	3111	3580	3596	3702	3572	3720	3673	3656	3224
3	ID:04500101	OHAWA BEACH Rd	3557	3509	3535	3701	3812	4055	4382	4235	3880	3879	3860	3679	3593
3	ID:01N00930	SANSON	11581	11312	12099	11303	11247	12302	12397	13418	12778	13001	12334	12486	11186
3	ID:01N00988	OHAU	13843	13584	14519	13544	13690	15117	15098	16237	16029	16058	15034	15204	13376
3	ID:00200755	NORSEWOOD	3484	3351	3495	3270	3383	4031	3848	4482	4589	4438	4056	4100	3390
3	ID:00300489	MANAWATU GORGE	6492	6224	6742		5595	6538	6754	7397	7351	7368	7226	7001	6348

Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11
3	ID:00400133	HOROPITO	1418	1845	2393	2178		1933	1677	1888	2069	1904	1725	1873	1339
3	ID:00400226	UPOKONGARO	1769	1731	1862	1707	1763	2011	2029	2133	2064	2082	1942	1973	1689
3	ID:01N00827	HIHITAH	3765	3996	4571	3919		4711	4515	5128	5777		4456	4730	3425
4	ID:01N11068	NGAURANGA	22574	22181	22687	22369	22187	22576	23635	24121	21291	23769	22844	21698	22405
4	ID:00200895	CLAREVILLE - Nth of Whites Line	10294	9973	10180	9907	9926	10486	11040	11218	10499	11324	11089	10496	10307
4	ID:00200937	RIMUTAKA - Pukuratahi River Brg	5117	4880	5228	4839	4945	5863	5760	6299	6185	6581	5928	5873	5170
4	ID:01N01036	PUKERUA BAY - (Piezo Axle Classification)	22623	22234	23286	22096	23023	24134	24534	25586	24032	25134	23725	23541	22092
4	ID:01N21068	NGAURANGA - NB	22501	21976	22314		21941	22440	23080	21809	19525	23316	22693	21615	22383
4	ID:05800009	Pauatahanui East	13819	13550	13739	13966	13608	14187	14892	14444	13097	14643	14456	13750	13571
4	ID:00210979	NGAURANGA - Sth Bound Lanes	21878	21403	21869	21686	21369	21727	22773	23659	20048	23121	22543	20918	21928
4	ID:00220979	NGAURANGA - Nth Bound Lanes	21644	21135	21475		21139	21590	22151	20919	18405	22556	22151	20709	21691
4	ID:00210965	KELSON - SB	17348	16965	17347	17314			18256	17450	15742	18235	17831	16832	17121
4	ID:00220965	KELSON - NB	16464	16188	16501	16244			17201	16769	14701	17277	16963	16171	16394
4	ID:00600122	STOKE - Whakatu Drive at Songer St	20576	20161	20014	19981	20028		22696	22595	21563	22911	22565	20862	20373
4	ID:00600232	MURCHISON	1345	1273	1363	1262	1383	1720	1830	2148	2675	2397	2077	1945	1373
4	ID:00600100	HIRA	2882	2821	2763	2788	2843	3219	3379			3955	3635	3401	2766
4	ID:06000040	SH60 Riwaka	2869	2543	2467	2481	2603	3481	3835	4551	6340	5207	4305	3721	2887
4	ID:01S00037	Blenheim	3100	3068	3248	3184	3204	3454	3696	3778	4439	4468	4066	4158	
4	ID:06300096	ST ARNAUD	264	219	242	227	253	327	356	419	481	454	410	364	232
5	ID:01S00389	DUNSANDEL	9050	8840			9187	10196	10447	10927	10665	11250	10737	10528	9199
5	ID:01S00505	EVANS St Timaru	19086	19085	19189	18847	19292	20143	20982	21937	19925	21350	21419	20369	19506
5	ID:07300064	Springfield - West of Township	1258	1281	1702	1568	1227	1643	1612	1726	1952	1859	2244	1646	1181
5	ID:01S00144	KAIKOURA - Nth of Hapuku River	1908	1849	1974	1858	1977	2349	2553	2997	3371	3117	2589	2614	1731
5	ID:01S00522	ST ANDREWS	5129	5188	5237	4911	5215	5735	5799	6217	5901	6089	5909	5960	5185
5	ID:00700108	LEWIS PASS	884	874	947	864	846	1151	1142	1373	1750	1475	1233	1278	872
5	ID:07409005	QE II Drive East Of Main Nth Rd	18441			18005		19206	19819						
5	ID:01S00285	WAIKOURA - (WIM Site)	6374	6243	6584	6179	6441	7668	7609	8408	9059	8481	7802	7952	5924
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB	18703	18310	18712	18885	19201	19648	20440				20452	19587	22334
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB	17793	17411	17813	18067	18387	18824	19625				19889	18958	22009
5	ID:00800059	FAIRLIE	1590	1599	2087	1876	1835	1992	2101	2535	2807	2478	2320	2246	1582
5	ID:00600454	CHESTERFIELD	2501	2374	2442	2384	2506	2810	3106	3124	3263	3314	4038	2884	2454
5	ID:00700239	AHAURA	1169	1099	1105	1077	1141	1277	1280	1340	1349	1413	1407		
5	ID:00600398	PUNAKAIKI - Just Nth of Canoe Creek	762	674	713	689	727	967	1073	1113	1325	1306	1178	1027	737
6	ID:00800336	ALEXANDRA - Sth Near Butchers Dam	1821	1833	1839	1881	1878	2088	2023	2376	2666	2246	2186	2255	1754
6	ID:01S10713	BURNSIDE - Sth Bound	15363	15699	15640	15456	14354	15613	16447	15283	13683		16156	14610	15277
6	ID:01S20713	BURNSIDE - Nth Bound	10868	10774	10798	10572	9751	10640	11205	10379	9476	10822	11137	10010	10526
6	ID:01S50713	BURNSIDE - On Ramp - Nth Bound	2526	2543	2559	2515	2374	2602	2707	2499	2272	2534	2507	2338	2503
6	ID:01S60713	BURNSIDE - Off Ramp - Sth Bound	3117	3137	3102	3130	2915	3200	3419	3032	2794	3441	3422	3017	3385
6	ID:01S40713	BURNSIDE - Off Ramp - Nth Bound	3393	3365	3279	3318	3094	3333	3533	3106	2845	3711	3524	3125	3385
6	ID:01S40714	Burnside - Nth Bound Off Ramp	2156	2135	2129	2174	2042	2231	2360	2123	1989	2427	2336	2076	2265
6	ID:01S00765	MILTON	5696	5677	5623	5482	5449	6149	6304	6580	6285	6817	6536	6484	5682
6	ID:06A00001	FRANKTON	14999	15566	17640	17488	16049	15765	16710	17600	17977	18025	17650		15195
6	ID:08500161	GALLOWAY	1741	1729	1745	1819	1841	1867	1949	2242	2238	2124	1981	2007	1748
6	ID:08800004	RAVENSBOURNE	8608	8434	8327	8468	8493	8700	9041	8734	7787	9111	9101	8362	8366
6	ID:01S00921	INVERCARGILL	11727	11433	11276	11293	10850	11112	12032	11420	9657	11807	11837	10949	11328
6	ID:00601147	WINTON	4520	4436	4365	4381	4236	4636	4873	4928	4313	4737	4772	4540	4589
6	ID:00601082	FIVE RIVERS	1430	1281	1351	1284	1310	1654	1897			2328	2051	2022	1372
6	ID:01S00854	GORE	3690	3716	3685	3659	3626	3963	4307	4301	4060	4353	4283	4083	3860
6	ID:09400141	TE ANAU	796	626	652	671	704	995	1320	1423	1688	1642	1427	1181	732

Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	May -10	Jun -10	Jul -10	Aug -10	Sep -10	Oct -10	Nov -10	Dec -10	Jan -11	Feb -11	Mar -11	Apr -11	May -11
1	ID:01N00212	KAWAKAWA	586	587	571	589	612	705	751	724	739	762	746	710	618
1	ID:01000029	Sth of Takou Bay Rd	232	233			240		298	312					
1	ID:01N00274	Nth of Maungakaramea Rd				1289	1316			1549					
1	ID:01200220	East of Brynderwyn Brg 161	223					314	367						
1	ID:01700006	HATFIELDS BEACH	202	184	187	176	196	244	258	267	249	261	235	220	200
1	ID:01N10459	DRURY - SB (Park Estate)	2314	2301	2244	2170	2330	2406	2698	2612	2294	2684	2696	2480	2472
1	ID:01N20459	DRURY - NB (Park Estate)	2212	2199	2138	2067	2201	2301	2590	2444	2250	2560	2576	2388	2368
1	ID:01N00336	WELLSFORD - Nth of Mangawhai Rd	834	816	775	784	820	955	994	1001	1083	1024	1006	947	860
1	ID:01N10474	BOMBAY - SB	1885	1877	1817	1764	1850	1972	2180	2143	1868	2177	2173	1994	1942
1	ID:01N20474	BOMBAY - NB	1930	1923	1868	1798	1865	2034	2284	2132	2008	2237	2220	2060	1995
1	ID:01N00388	ALPURT	1147	1146	1125	1084	1173	1357	1410	1452	1440	1413	1311	1284	1170
1	ID:02000007	SH20 Puhinui Rd to Massey Rd	2734	2809	3049	2849	3541	3428	3882	3603	3081		3606	3108	3164
2	ID:00200002	MAUNGATAWHIRI - West of Grahams Brg	1562	1770	1964	1481	1502	1671	1850	1851			1896	1739	1682
2	ID:25A00024	HIKUAE - Telemetry Site 76 - 1.3km after Kitahi Rd	209	198	205	199	219	300	283	354	407	295	260	251	190
2	ID:02700011	KAIHERE	810	756	743	732	794	866	956	897	806	963	993	929	861
2	ID:01N00526	TAUPIRI - Nth of Gordonton Rd	1952	1952	1893	1859	1998	2108	2365	2175	1927	2266	2284	2079	2008
2	ID:01N00620	LICHFIELD - Sth of Baldwin Rd	1317	1237	1242	1206	1402	1470	1610	1475	1326	1525	1654	1464	1371
2	ID:00300085	TE KUITI - Nth of 8 Mile Junction	660	632	597	583	618	687	758	701	629	724	758	682	670
2	ID:03200074	West of Taupo	107	118	123	99	104	117	118	99	94	106	114	99	93
2	ID:01N00580	KARAPIRO	1383	1313	1315	1378	1463	1600	1721	1629	1566	1765	1703	1544	1453
2	ID:00200091	WAIHI - East of Samson Rd West	773	756	743	705	727	823	907	909	828	907	826	812	760
2	ID:01N00729	HALLETT'S BAY	739	670	688	665	714	766	872	806	797	899	894	818	748
2	ID:01N00628	TOKOROA - (WIM Site)	1271	1174	1163	1237	1371	1359	1514	1461	1202	1442	1547	1292	1255
2	ID:01N90552	GREENWOOD	1587	1628	1610	1628	1650	1736	1978		1613	1995	1962	1744	1733
2	ID:00200141	TE PUNA - West of Snodgrass	1213	1084	1069	1014	1058	1139	1285	1166	1067	1246	1201	1193	1252
2	ID:03010149	TE NGA - East End of Puarenga Brg (Inc)	931	922	905	872	920	986	1051	990	910	1110	1096	966	935
2	ID:03020149	East end of Puarenga Brg (Dec)	1020	1022	1006	970	1004	1076	1166	1009	960	1136	1123	1002	963
2	ID:00200204	OHINEPANEA - West of Rogers Rd	727	660	683	699	753	852	889	761	752	842	781	759	738
2	ID:03000188	LAKE ROTOMA	348	352	338	322	336	345	389	347	369	377	335	306	287
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	560	527	515	489	526	593	657	623	581	701	688	582	571
2	ID:00500034	TARUKENGA - 4.7km West of Dalbeth Rd		536	569	548	590	617	699	676	638	743	685	649	575
2	ID:02900034	KAIMAI - 100m past Boulder Brg (Kaukumoutiti Stream)		1062	1058	1058	1059	1171	1338	1311	1158	1331	1391	1268	1161
2	ID:00500057	WAIPA - Sth of SH30	795	735	744	777	815	834	900	794	784	998	971	894	
2	ID:00200176	TE PUKE - (WIM Site)	1983	1757	1731	1723	1793	1889	2111	1766	1544	1837	2089	2167	
2	ID:00200242	AWAKERI	673	647	671	630	695	733	811	760	699	827	880	717	
3	ID:00200428	ORMOND	218	242	209	203	209	224	254	252	243	316	291	260	258
3	ID:03500320	OKITU	262	269	249	253	260	267	321	336	341	400	382	323	286
3	ID:00200627	TANGOIO	389	346	335	349	326	343	430	391	393	444	418	335	373
3	ID:00500230	TE POHUE - 1km Nth of Oakmere Station Gateway	388	495	464	440	451	482	552	516	557	562	601	534	
3	ID:05000010	Nth of Tutae kuri River	1426	1361	1208	1201	1221	1304	1508	1389	1325	1553	1728	1558	1410
3	ID:00300171	TONGAPORUTU Brg	360	335	335	334	333	393	444	409	375	413	436	393	381
3	ID:00300267	TARIKI	924	825	818	848	899	1010	1087	1045	923	1033	1061	968	901
3	ID:00300370	WAITOTARA	511	442	430	505	511	600	668	601	561	689	683	646	578
3	ID:04500101	OHAWA BEACH Rd	294	262	293	407	530	613	599	518	491	471	457	388	306
3	ID:01N00930	SANSON	1447	1383	1361	1356	1418	1517	1693	1556	1488	1724	1721	1598	1496
3	ID:01N00988	OHAU	1457	1402	1402	1351	1417	1496	1677	1569	1466	1679	1699	1509	1430
3	ID:00200755	NORSEWOOD	549	516	474	484	523	595	678	628	633	699	718	677	569
3	ID:00300489	MANAWATU GORGE	757	706	649		654	749	863	808	794	901	956	861	776
3	ID:00400133	HOROPITO	272	323	279	270		281	312	303	299	354	345	295	276
3	ID:00400226	UPOKONGARO	142	133	141	131	142	151	176	161	154	180	173	151	136
3	ID:01N00827	HIHITAHU	858	845	827	792		861	989	913	910		1028	885	824

Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	
4	ID:01N11068	NGAURANGA	557	564	571	544	605	606	644	678	603	669	636	557	588	
4	ID:00200895	CLAREVILLE - Nth of Whites Line	516	464	472	475	527	591	662	595	571	683	679	589	546	
4	ID:00200937	RIMUTAKA - Pukuratahi River Brg	303	271	274	278	279	325	360	368	345	424	389	346	333	
4	ID:01N01036	PUKERUA BAY - (Piezo Axle Classification)	1609	1605	1588	1534	1732	1714	1951	1814	1636	1935	2020	1812	1803	
4	ID:01N21068	NGAURANGA -NB	676	670	681		718	716	730	689	634	758	738	688	710	
4	ID:05800009	Pauatahanui East	522	499	517	531	519	565	629	562	528	623	640	613	673	
4	ID:00210979	NGAURANGA - Sth Bound Lanes	665	699	684	679	667	713	798	803	690	797	813	707	750	
4	ID:00220979	NGAURANGA - Nth Bound Lanes	704	723	709		716	746	803	712	639	796	832	723	771	
4	ID:00210965	KELSON - SB	667	636	649	658			760	687	624	785	749	668	693	
4	ID:00220965	KELSON - NB	574	550	562	557			647	599	518	659	642	569	590	
4	ID:00600122	STOKE - Whakatu Drive at Songer St	1273	1205	1172	1123	1150		1404	1208	1246	1421	1467	1341	1297	
4	ID:00600232	MURCHISON	240	208	208	212	292	282	317	314	384	356	341	289	247	
4	ID:00600100	HIRA	448	428	402	407	456	465	495			588	562	480	406	
4	ID:06000040	SH60 Riwaka	208	161	138	155	168	229	265	272	367	342	307	270	202	
4	ID:01S00037	Blenheim	500	455	461	463	476	555	602	639	656	664	712	864		
4	ID:06300096	ST ARNAUD	41	28	31	28	77	41	47	40	44	52	50	40	35	
5	ID:01S00389	DUNSANDEL	1277	1103				1315	1477	1621	1566	1513	1613	1611	1440	1324
5	ID:01S00505	EVANS St Timaru	1313	1157	1151	1255	1370	1511	1678	1573	1429	1575	1718	1560	1410	
5	ID:07300064	Springfield - West of Township	172	153	153	174	149	215	226	210	227	244	315	207	174	
5	ID:01S00144	KAIKOURA - Nth of Hapuku River	436	409	414	411	419	492	555	528	529	567	570	516	422	
5	ID:01S00522	ST ANDREWS	769	686	662	712	840	908	963	945	876	924	1013	947	839	
5	ID:00700108	LEWIS PASS	160	144	136	145	190	177	190	215	265	218	214	193	168	
5	ID:07409005	QE II Drive East Of Main Nth Rd	477			459		636	582							
5	ID:01S00285	WAIPARA - (WIM Site)	1003	842	834	852	1001	1037	1132	1097	959	1085	1188	1044	1031	
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB	962	982	983	1018	1201	1182	1274				1287	1168	1317	
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB	882	884	892	944	1133	1117	1197				1228	1100	1283	
5	ID:00800059	FAIRLIE	192	157	177	174	207	242	269	305	335	304	279	258	194	
5	ID:00600454	CHESTERFIELD	250	198	202	234	308	385	410	355	356	374	463	314	251	
5	ID:00700239	AHAURA	164	152	144	149	182	207	221	194	196	225	233			
5	ID:00600398	PUNAKAIKI - Just Nth of Canoe Creek	76	58	62	75	94	111	139	122	128	145	131	102	73	
6	ID:00800336	ALEXANDRA - Sth Near Butchers Dam	175	159	151	170	167	183	189	222	264	223	222	202	185	
6	ID:01S10713	BURNSIDE - Sth Bound	737	1056			1054			981	761		943	786	832	
6	ID:01S20713	BURNSIDE - Nth Bound	726	956			999			834	664	812	839	695	667	
6	ID:01S50713	BURNSIDE - On Ramp - Nth Bound	108	117	115	112	111	131	135	111	111	128	146	118	127	
6	ID:01S60713	BURNSIDE - Off Ramp - Sth Bound	196	207	204	208	197	225	231	193	185	233	253	200	201	
6	ID:01S40713	BURNSIDE - Off Ramp - Nth Bound	193	190	188	186	184	197	211	178	179	246	233	191	138	
6	ID:01S40714	Burnside - Nth Bound Off Ramp	73	78	76	80	70	82	83	71	73	92	84	72	68	
6	ID:01S00765	MILTON	725	645	587	596	683	839	923	832	785	932	929	814	765	
6	ID:06A00001	FRANKTON	766	744	904	899	855	867	963	964	986	983	973		737	
6	ID:08500161	GALLOWAY	110	88	88	104	105	106	166	113	136	142	135	137	117	
6	ID:08800004	RAVENSBOURNE	453	438	420	422	413	516	536	512	453	558	561	496	504	
6	ID:01S00921	INVERCARGILL	380	353	338	348	351	351	380	334	309	372	383	337	341	
6	ID:00601147	WINTON	414	377	371	459	440	553	554	537	473	521	519	470	427	
6	ID:00601082	FIVE RIVERS	167	127	133	137	141	186	238			315	272	242	164	
6	ID:01S00854	GORE	444	353	344	393	473	505	607	525	507	572	575	518	478	
6	ID:09400141	TE ANAU	98	67	68	76	93	122	165	155	173	178	163	129	78	