



Traffic Volumes Monthly Report November 2010

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Quality Assurance Statement

Project Manager: Neil Beckett

Prepared by: Gerald Wen

Reviewed by: Neil Beckett

Approved for issue by:

Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	9/12/2010	First draft	Gerald Wen	Neil Beckett	

Overview

Summary

The purpose of this document is to report on the monthly traffic volume changes. This report also covers annual traffic trends for the period of 1989 to 2009.

The overall trend in traffic growth has continued to increase, although the trend has levelled off since 2006.

2009 has seen the first significant reduction in heavy vehicle growth for the last two decades since records began.

In November 2010, compared with November 2009, the monthly average daily traffic (MADT) for all vehicles remained at nearly the same level; while the MADT for heavy vehicles increased by 5.8 percent.

In this report

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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 statistic term is Annual Average Daily Traffic (AADT), which measures the average of daily traffic volume over a given 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 96 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	18
Waikato and Bay of Plenty	22
Taranaki, Manawatu-Wanganui, Hawkes Bay and Gisborne	15
Wellington, Nelson, Marlborough and Tasman	13
Canterbury and West Coast	13
Otago and Southland	15

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 annual national State Highway Traffic Index ¹ measures the rate of traffic growth since 1989.

Overall

In the last two decades, the overall annual trend in traffic growth, up to 2005, has continued to increase. The index for heavy vehicles increased at a higher rate than the all vehicles index since 1999.

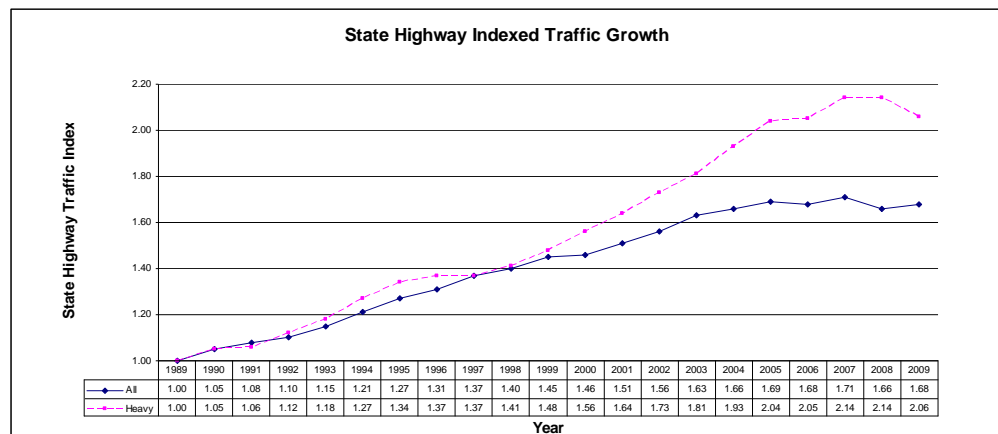
2009 All Vehicles

In 2009, there has been an increase of approximately 1% in the total number of vehicles using the State Highway network, compared to 2008. The all vehicle growth index returned to the same level as observed in 2006.

2009 Heavy Vehicles

In 2009, there has been a reduction of approximately 4% in heavy vehicles using the State Highway network, compared to 2008. The heavy vehicle growth index returned to similar levels as observed in 2006.

National growth (annual)



¹ Weighted average traffic across the National telemetry sites

**Results:
Monthly
traffic at key
sites**

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

The MADT values for November 2010, November 2009 and percentage of difference compared are reported in the table below.

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) November-09	MADT (All Vehicles) November-10	% Change
Auckland harbour bridge (SH1)	Auckland	166565	164417	-1%
Karapiro (SH1)	Hamilton	14950	14953	0%
Ngauranga Interchange (SH 1 and SH 2)	Wellington	91482	91639	0%
Wimakariri Bridge (SH1)	Christchurch	38891	40065	3%
Burnside	Dunedin	27210	27652	2%

In November 2010, the MADT values for the sites representing Christchurch and Dunedin had a small increase, Hamilton and Wellington remained at the same level, while Auckland indicated a minor decrease, compared to the same period in the previous year.

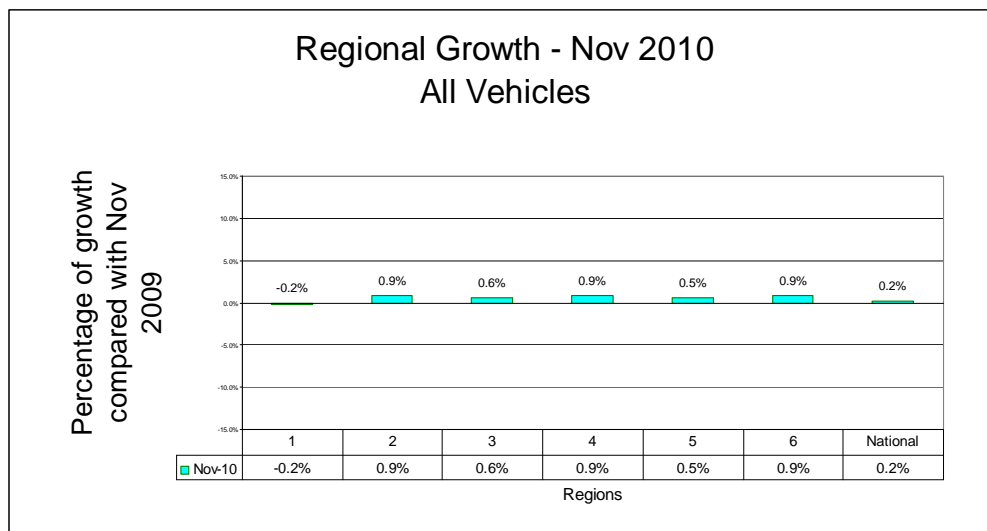
It is noted that the site representing Hamilton is not within the city boundary. A more suitable site has now been installed and once 13 months of data is available we will provide data for use within this report. Please also note that the required accuracy for the delivery of data at a single site is +/- 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 2009. The MADT values here represent all vehicle types. It can be observed that the regional change in MADT ranged between -0.2% and 0.9%¹, compared with November 2009². Nationally, the MADT in November 2010 for all vehicles remained at nearly the same level³, compared with November 2009.



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

More graphs

The graphs (same 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.

¹ Regional MADT Growth – Sum of weighted growth of the telemetry sites in a region.

² Regional MADT Growth – Sum of weighted growth of the telemetry sites in a region.

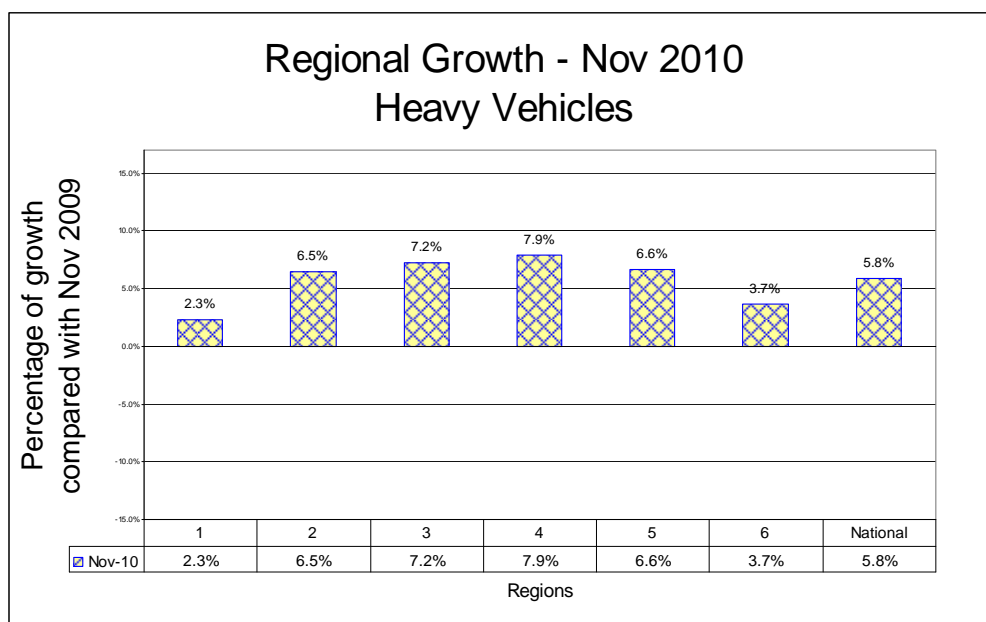
³ National MADT Growth – Average growth of the entire telemetry sites (not weighted).

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 2009. The MADT values here represent heavy vehicles only. It can be observed that all regions had an increase of between 2.3% and 7.9%². Nationally, the MADT in November 2010 for heavy vehicles continues to increase by 5.8%³, compared with November 2009.



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

More graphs

The graphs (same 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 2009 is attached to this report.

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

² Regional MADT Growth – Sum of weighted growth of the telemetry sites in a region.

³ National MADT Growth – Average growth of the entire telemetry sites (not weighted).

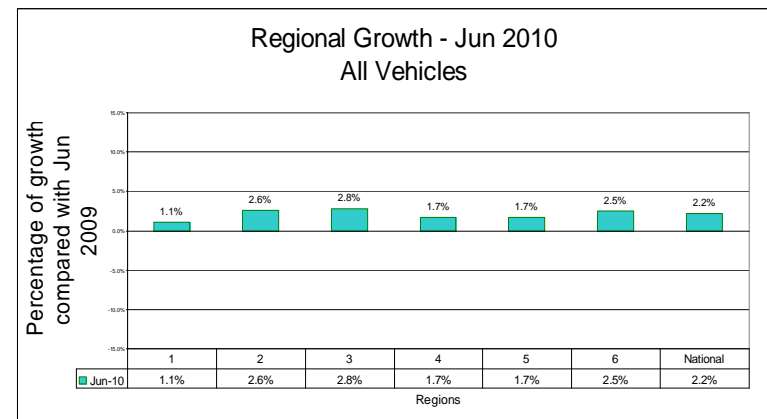
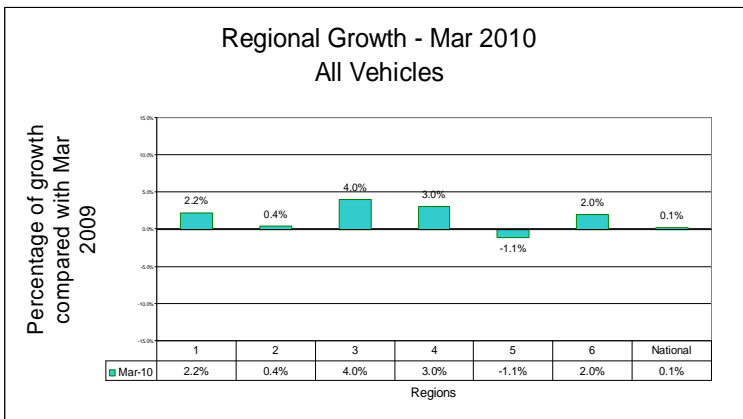
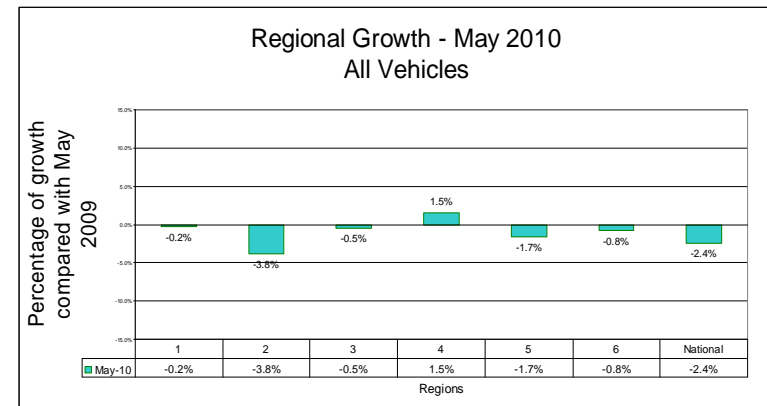
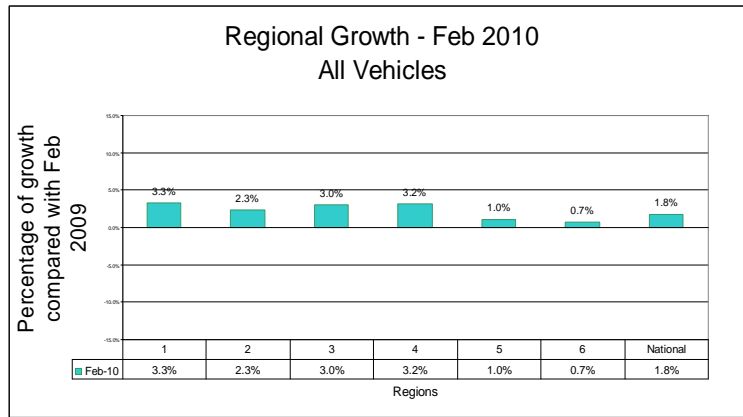
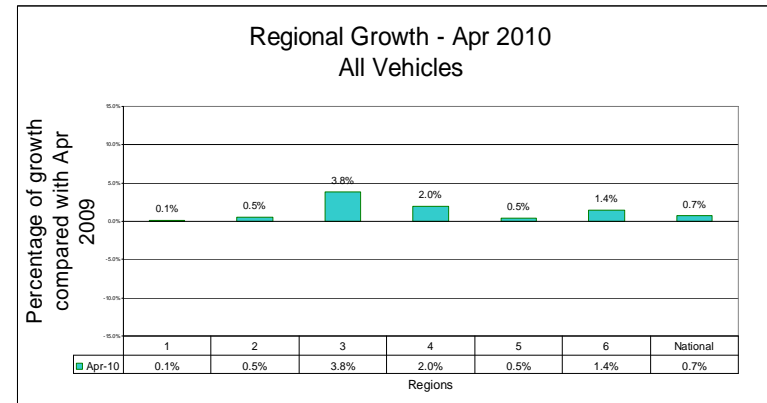
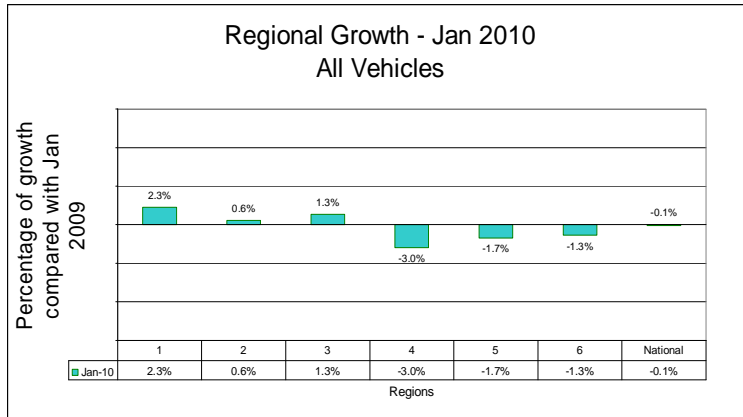
Appendices

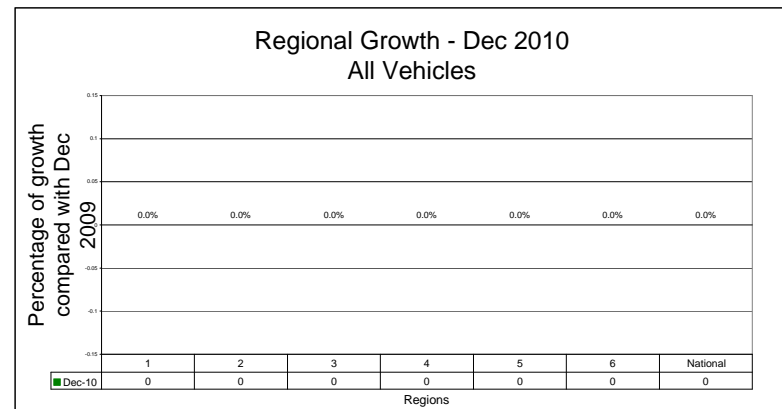
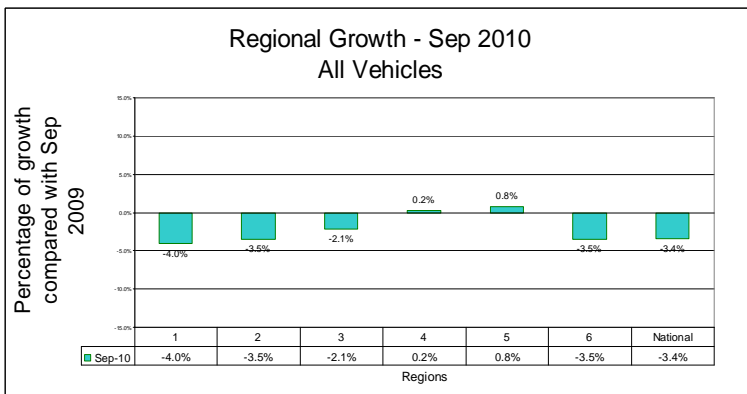
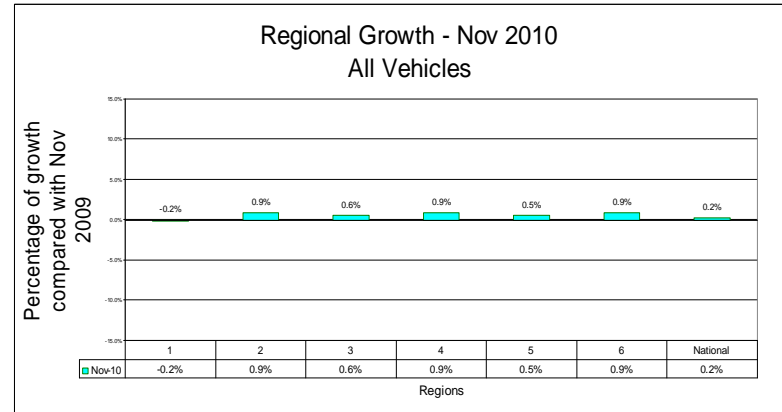
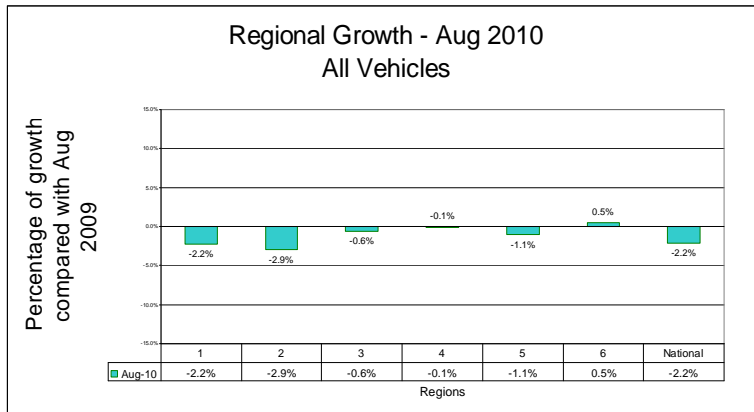
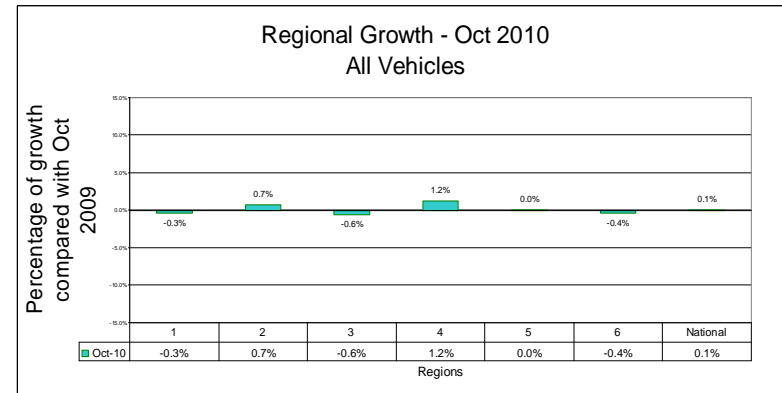
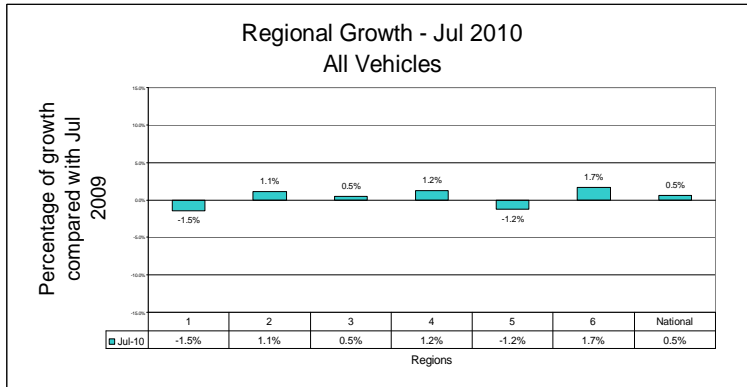
Current and Previous Years Growth Graphs: 2010, 2009, 2008 and 2007

- All Vehicles
- Heavy Vehicles

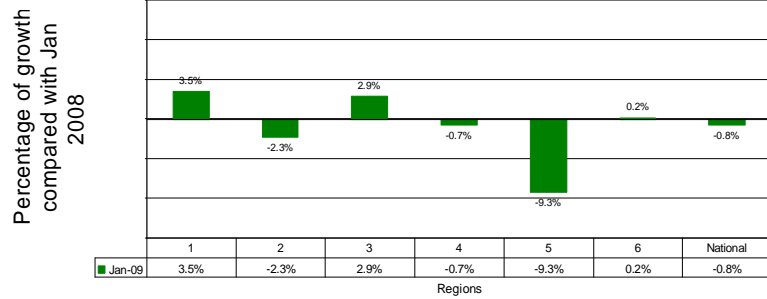
Telemetry Site MADT's for the past twelve months

- All Vehicles
- Heavy Vehicles

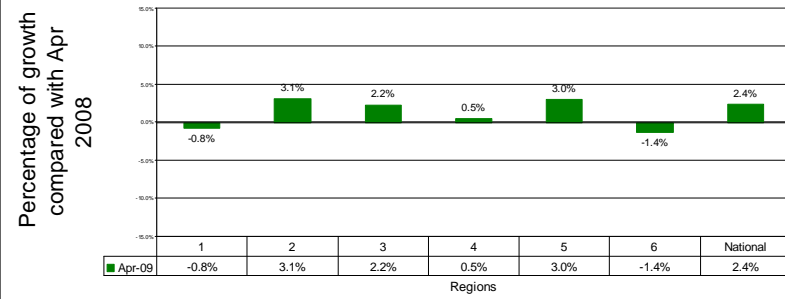




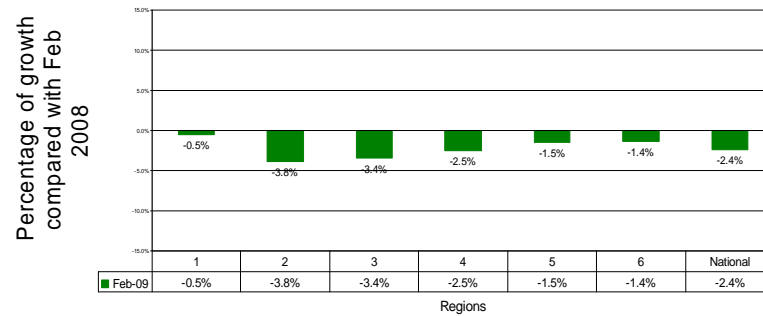
Regional Growth - Jan 2009
All Vehicles



Regional Growth - Apr 2009
All Vehicles



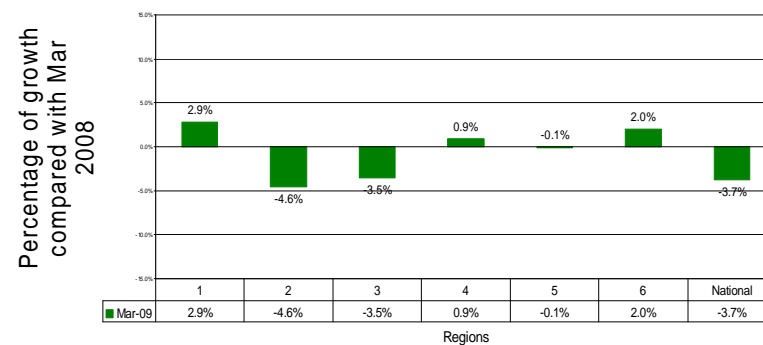
Regional Growth - Feb 2009
All Vehicles



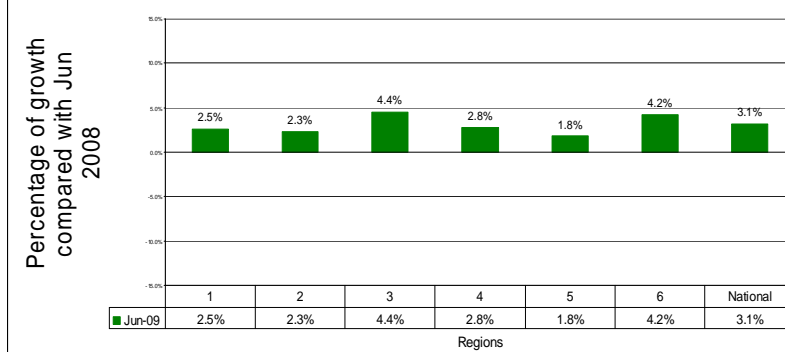
Regional Growth - May 2009
All Vehicles



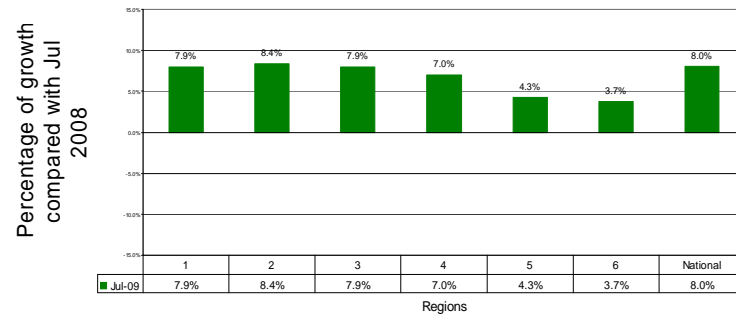
Regional Growth - Mar 2009
All Vehicles



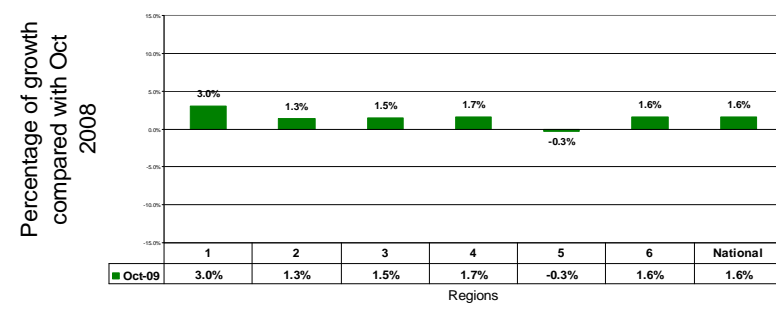
Regional Growth - Jun 2009
All Vehicles



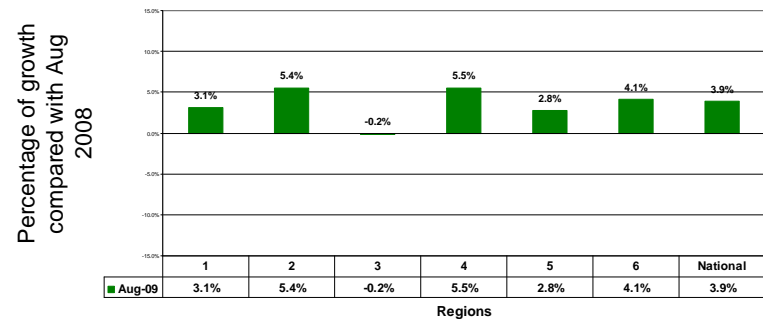
Regional Growth - Jul 2009
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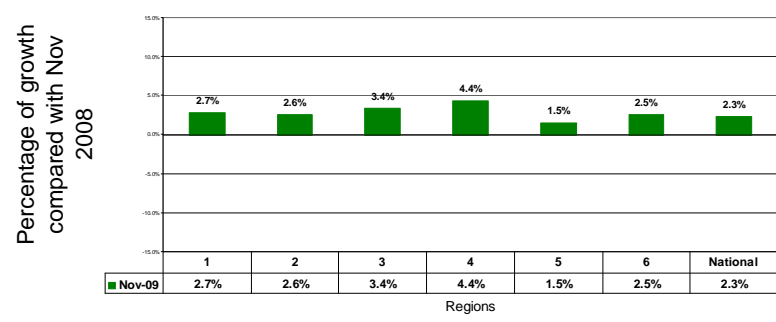
Regional Growth - Oct 2009
All Vehicles



Regional Growth - Aug 2009
All Vehicles



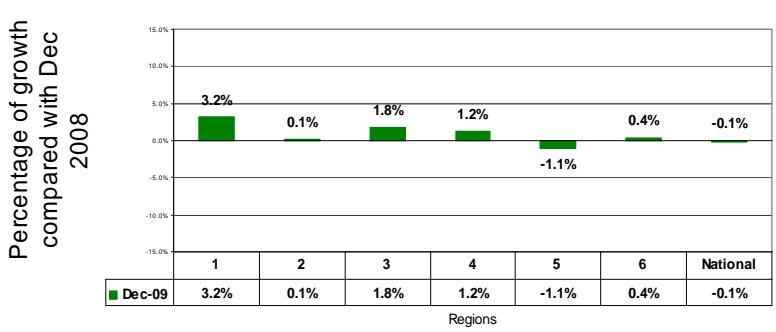
Regional Growth - Nov 2009
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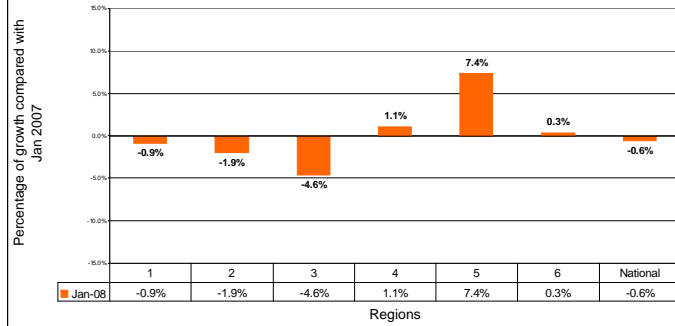
Regional Growth - Sep 2009
All Vehicles



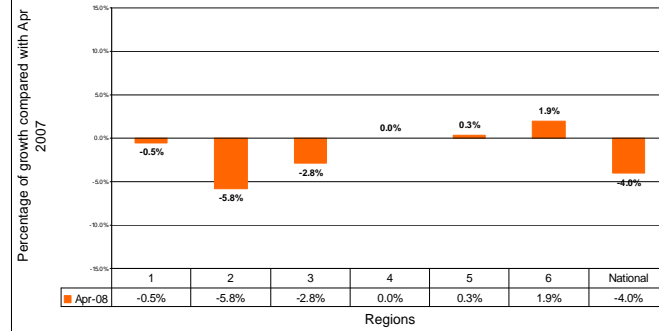
Regional Growth - Dec 2009
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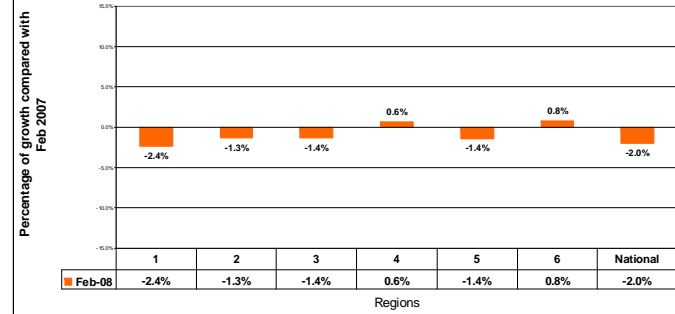
Regional Growth - Jan 2008
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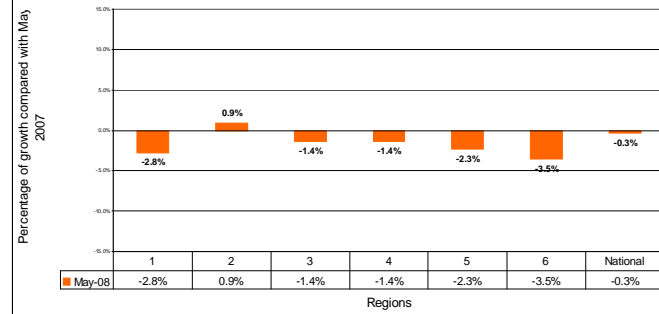
Regional Growth - Apr 2008
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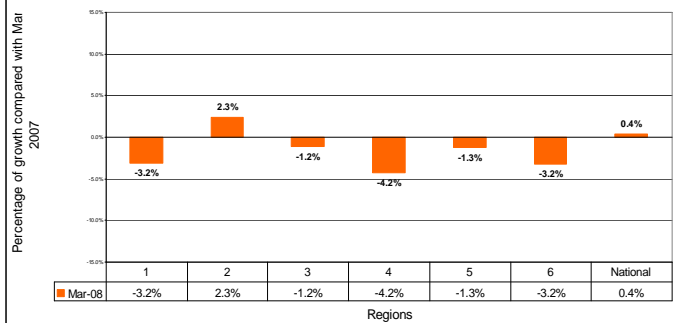
Regional Growth - Feb 2008
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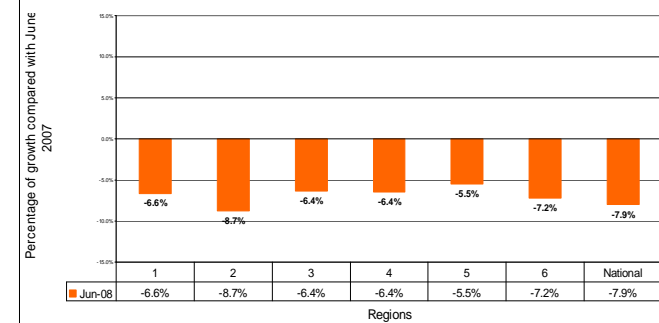
Regional Growth - May 2008
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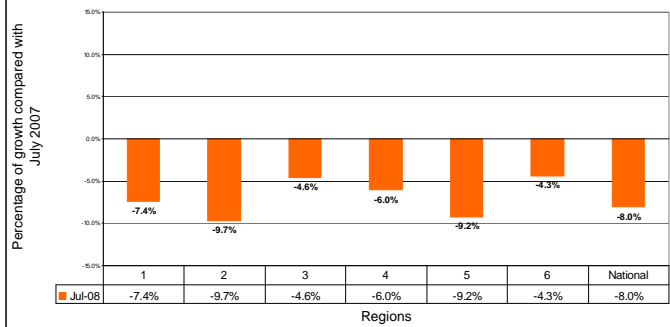
Regional Growth - Mar 2008
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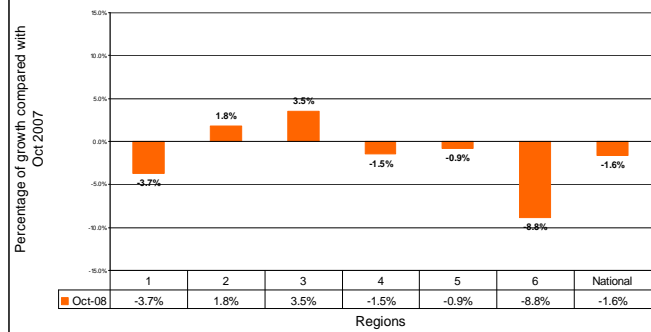
Regional Growth - June 2008
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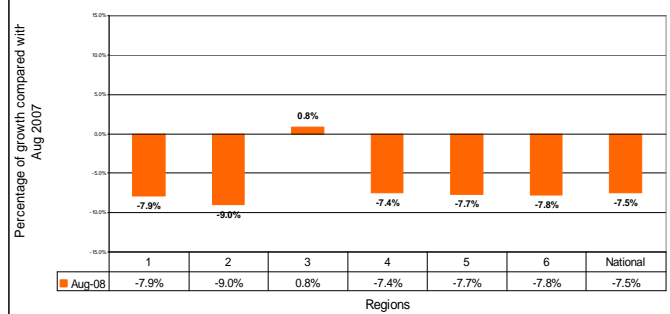
Regional Growth - July 2008
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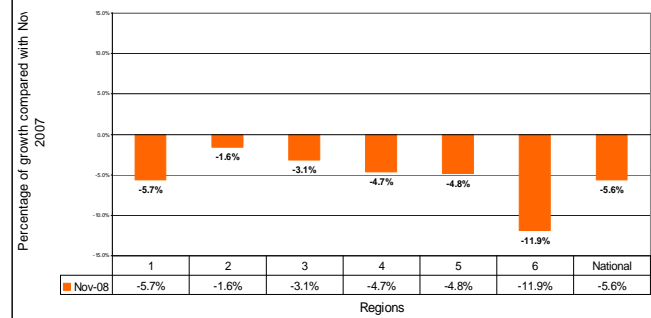
Regional Growth - Oct 2008
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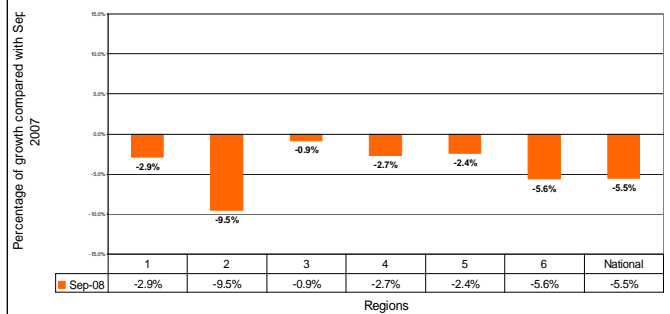
Regional Growth - Aug 2008
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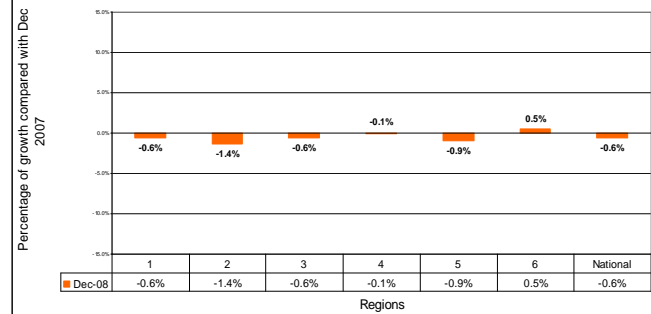
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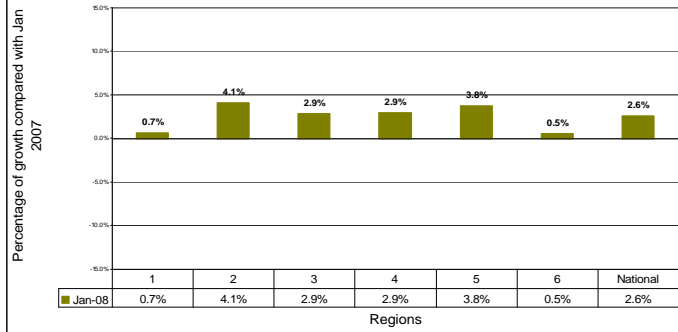
Regional Growth - Sep 2008
All Vehicles



Regional Growth - Dec 2008
All Vehicles



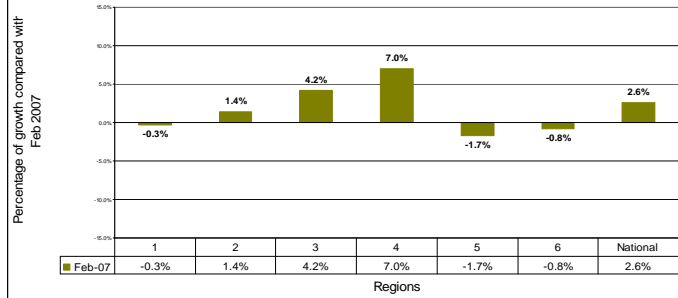
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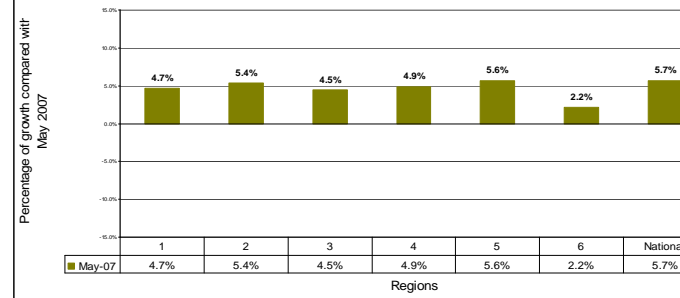
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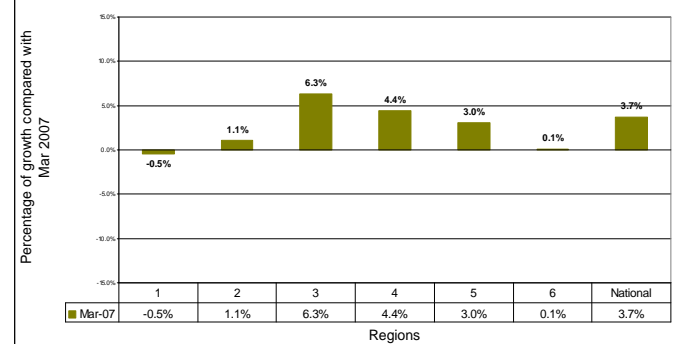
Regional Growth - Feb 2007
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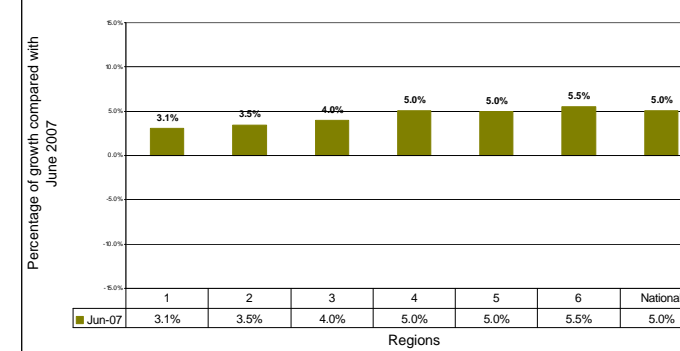
Regional Growth - May 2007
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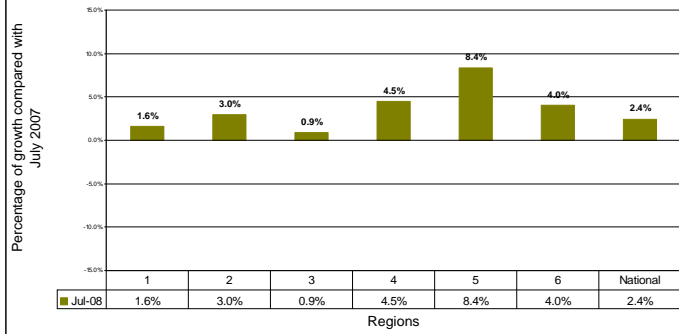
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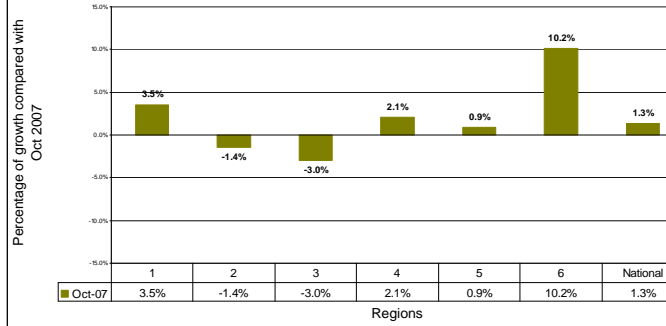
Regional Growth - June 2007
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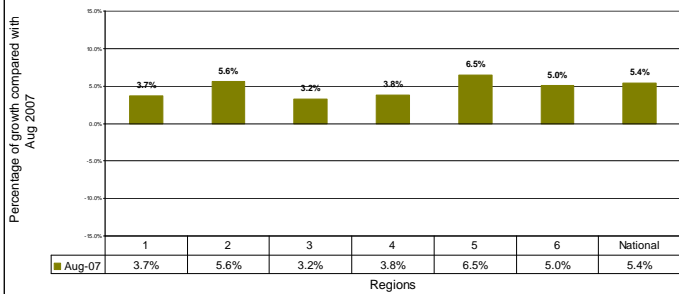
Regional Growth - July 2007
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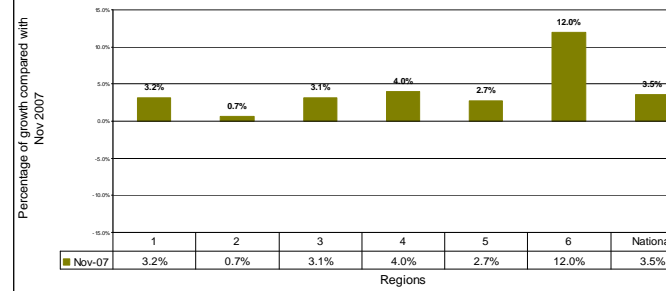
Regional Growth - Oct 2007
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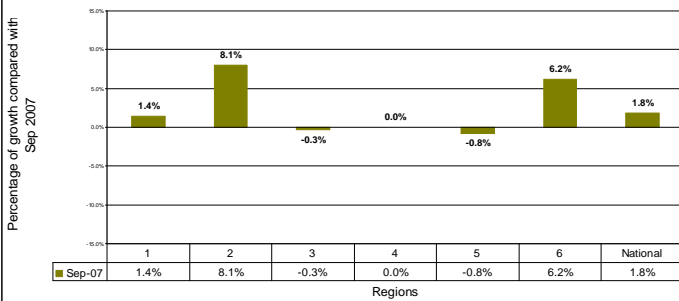
Regional Growth - Aug 2007
All Vehicles



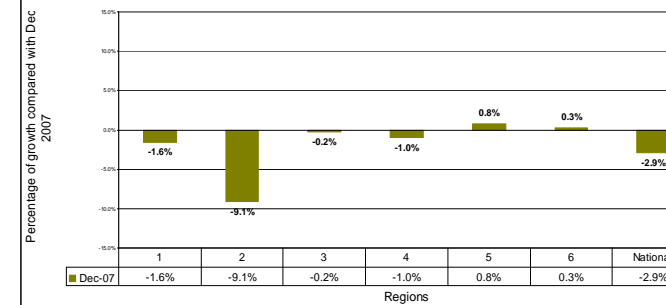
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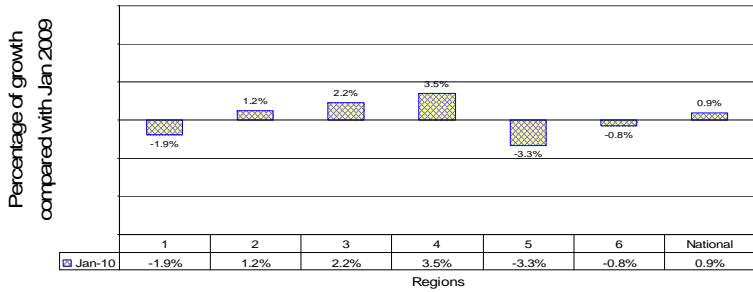
Regional Growth - Sep 2007
All Vehicles



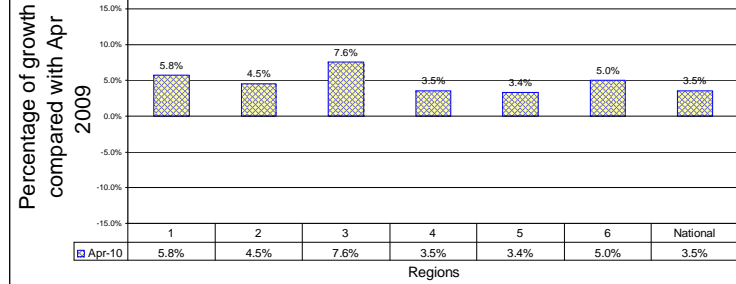
Regional Growth - Dec 2007
All Vehicles



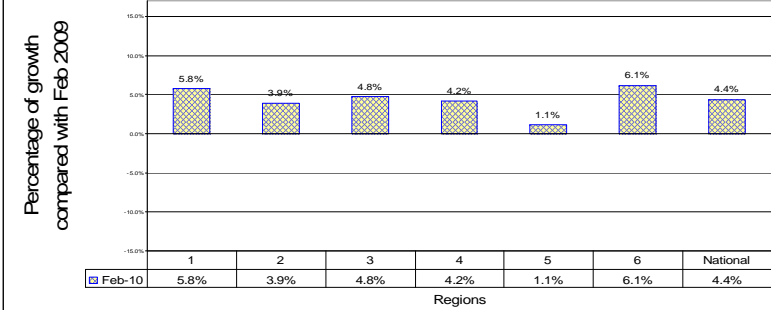
Regional Growth - Jan 2010
Heavy Vehicles



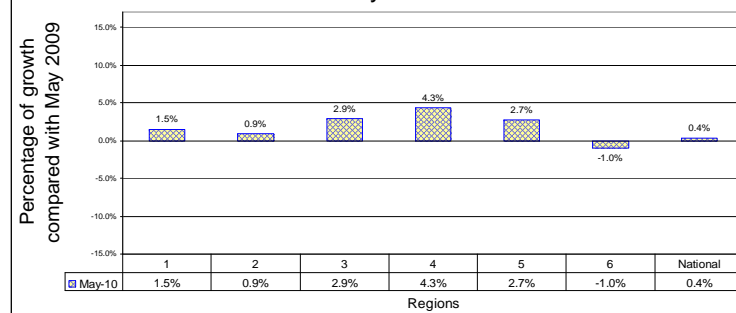
Regional Growth - Apr 2010
Heavy Vehicles



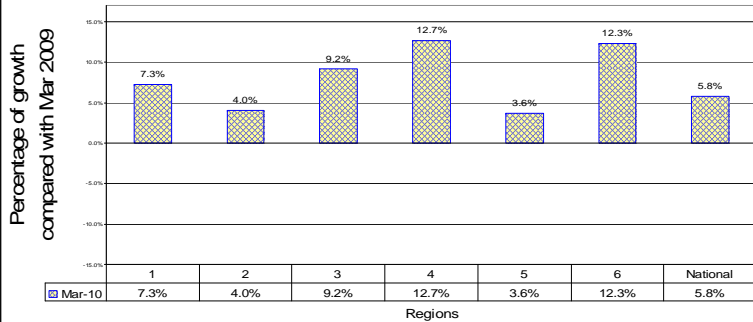
Regional Growth - Feb 2010
Heavy Vehicles



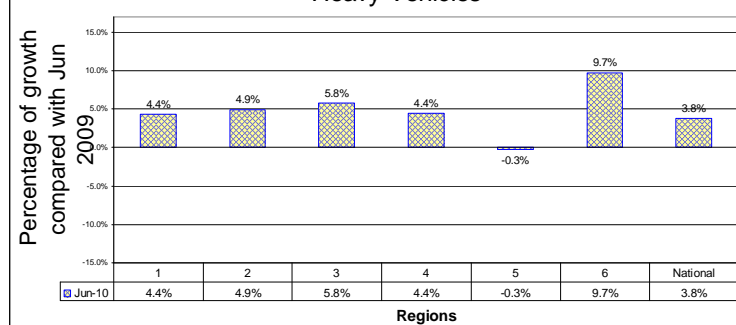
Regional Growth - May 2010
Heavy Vehicles

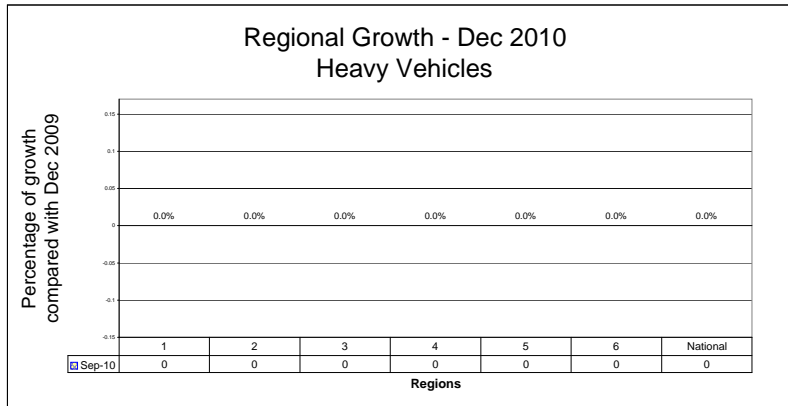
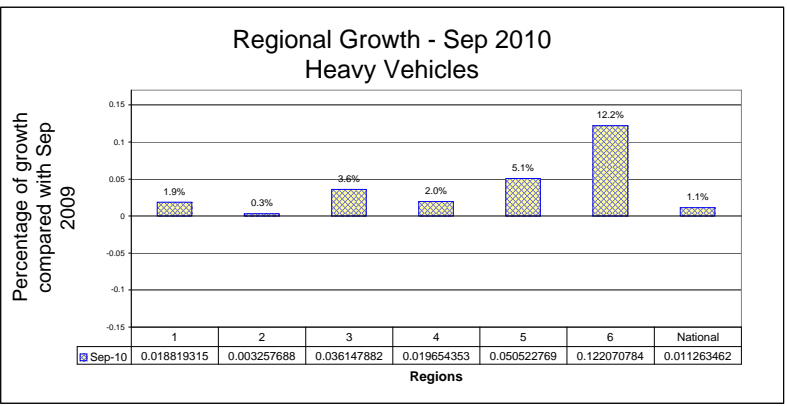
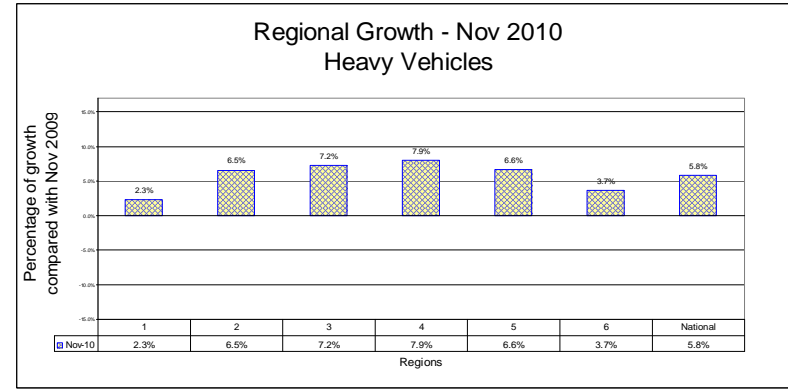
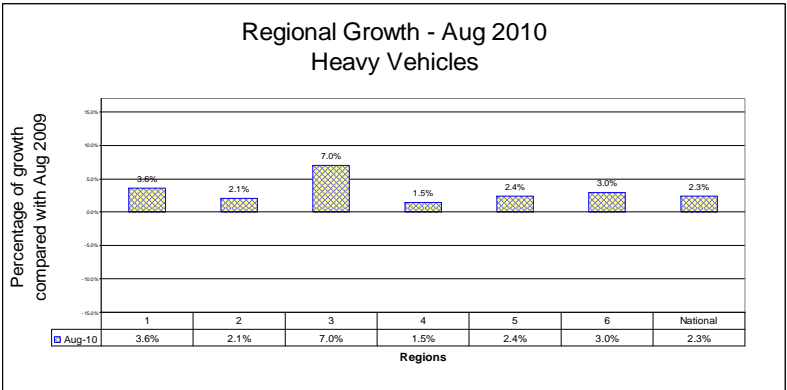
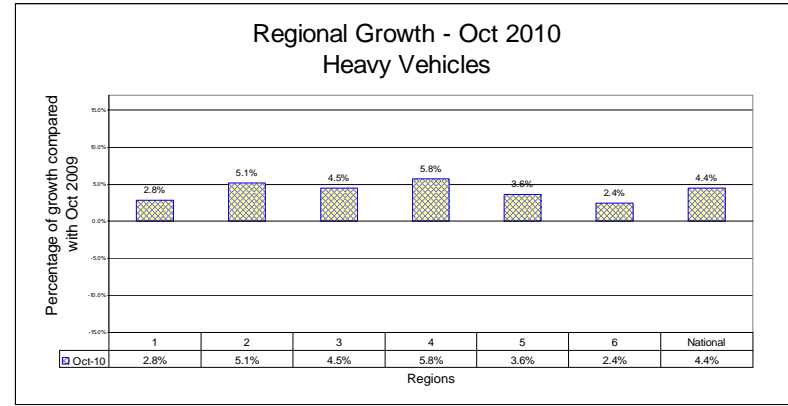
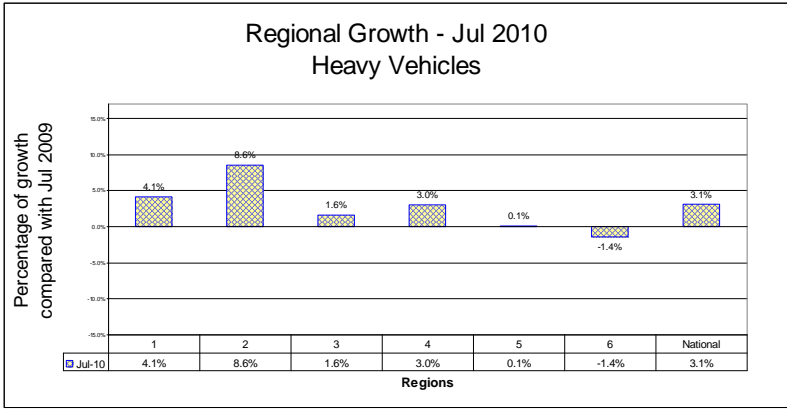


Regional Growth - Mar 2010
Heavy Vehicles

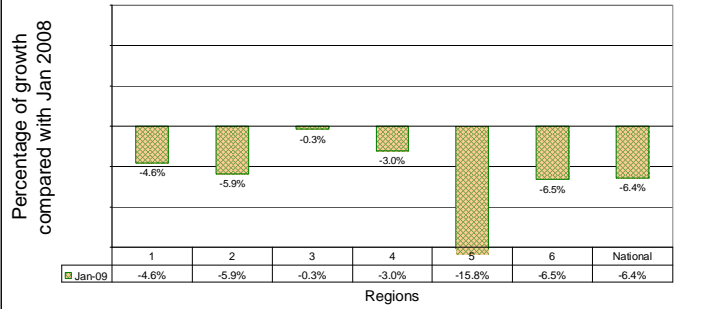


Regional Growth - Jun 2010
Heavy Vehicles





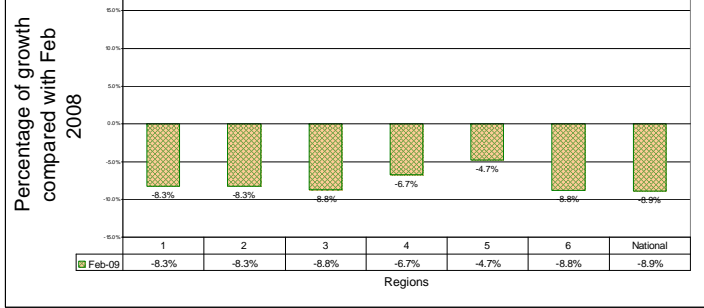
Regional Growth - Jan 2009
Heavy Vehicles



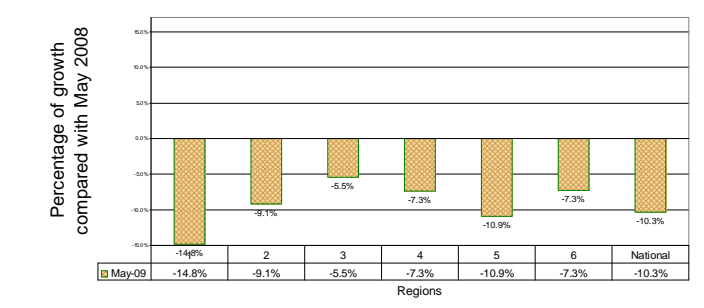
Regional Growth - Apr 2009
Heavy Vehicles



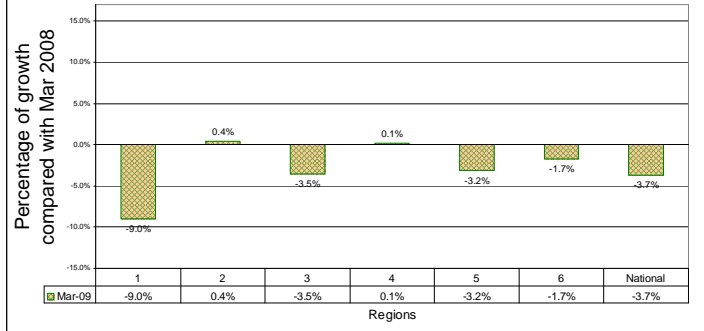
Regional Growth - Feb 2009
Heavy Vehicles



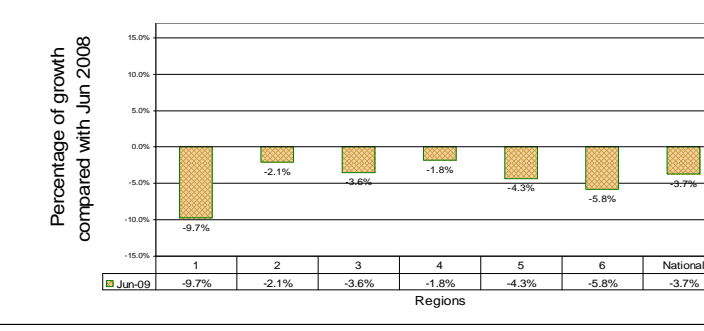
Regional Growth - May 2009
Heavy Vehicles

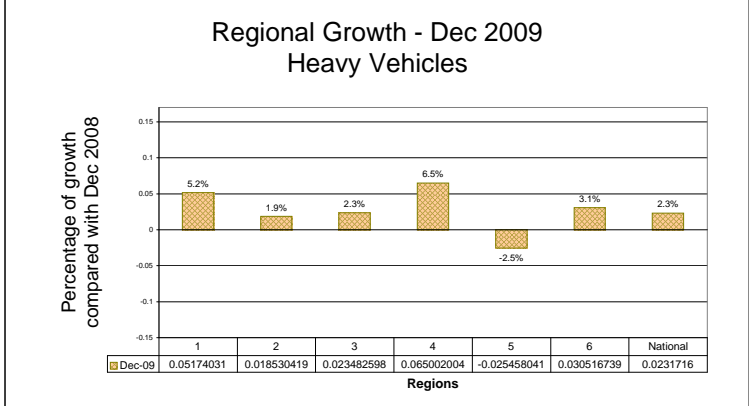
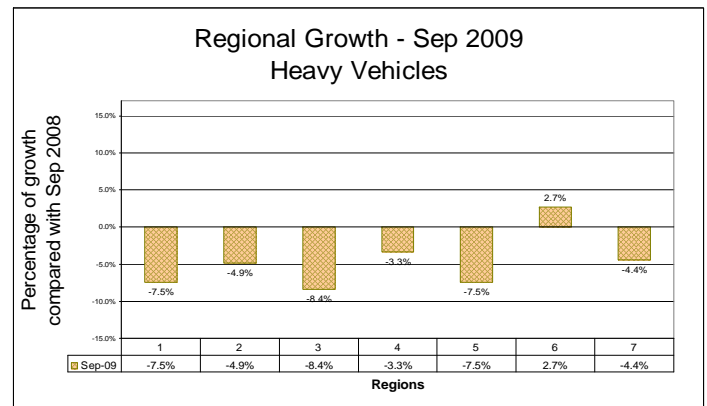
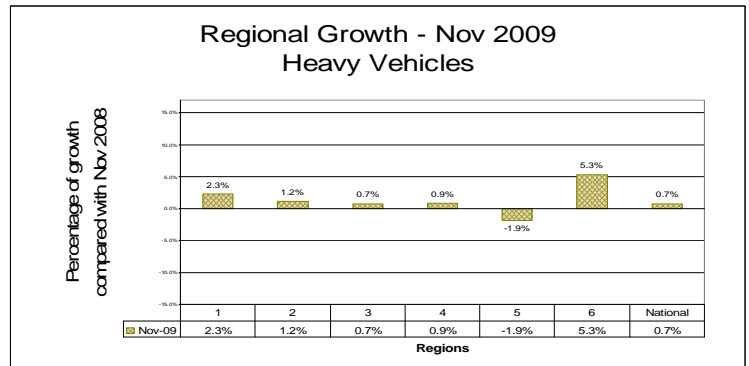
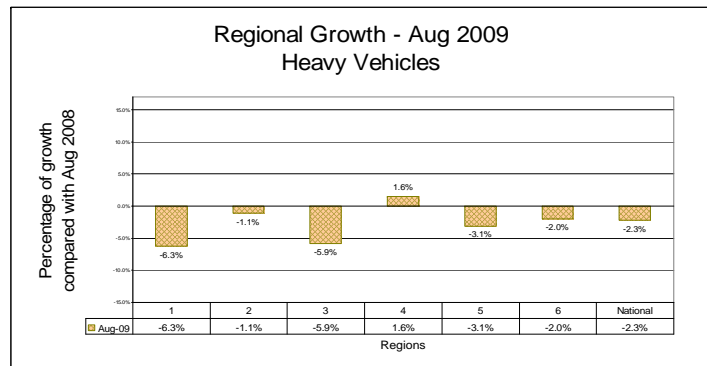
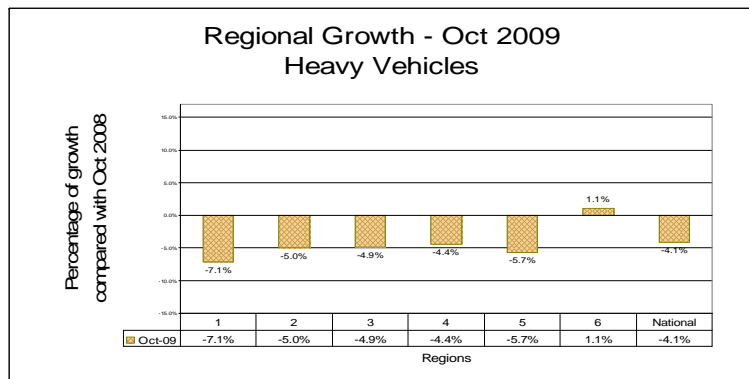
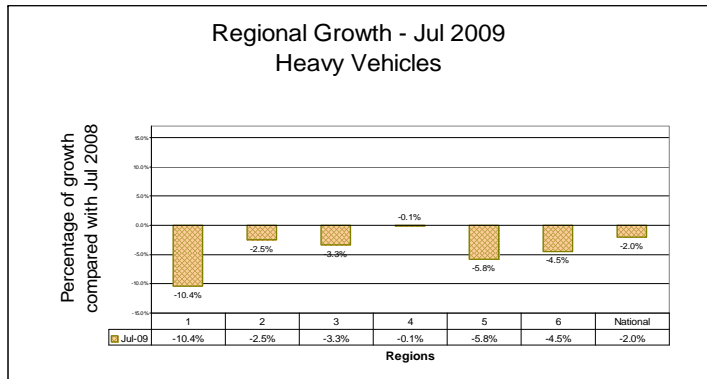


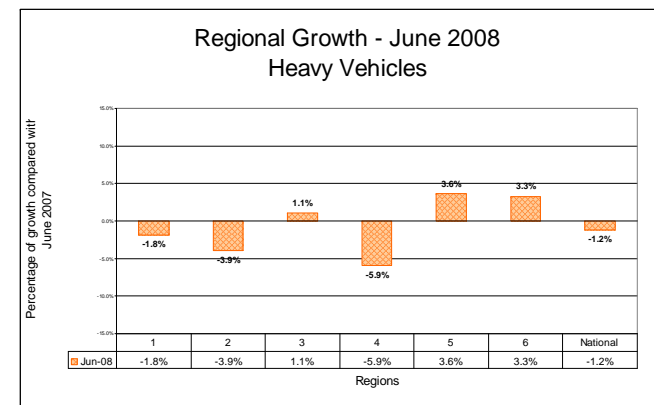
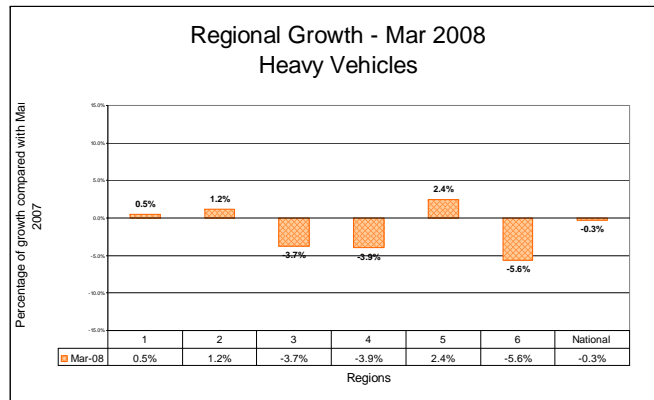
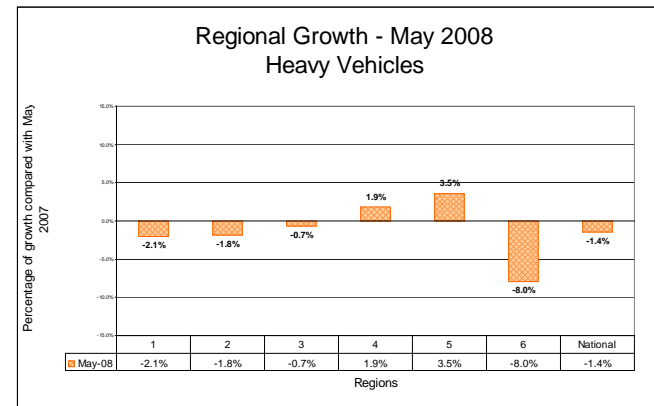
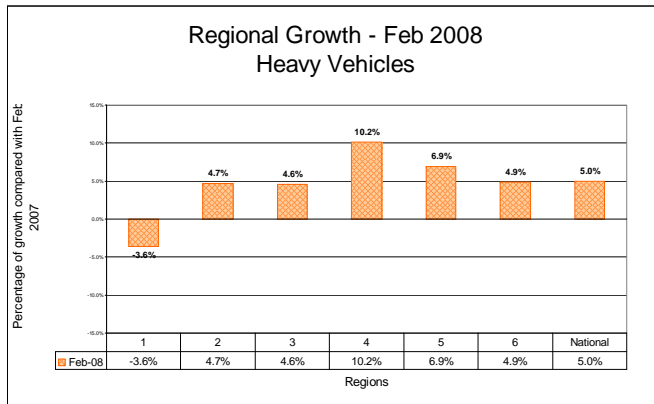
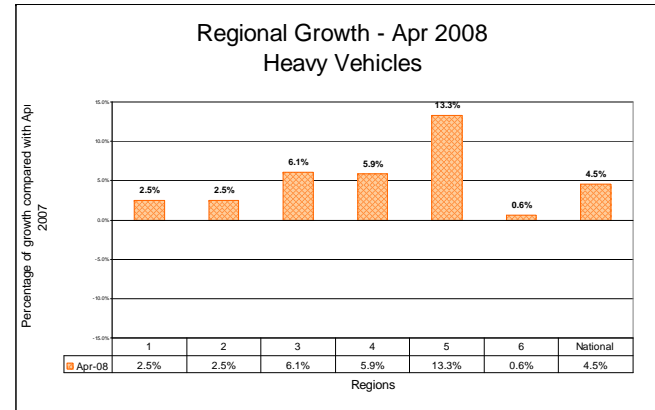
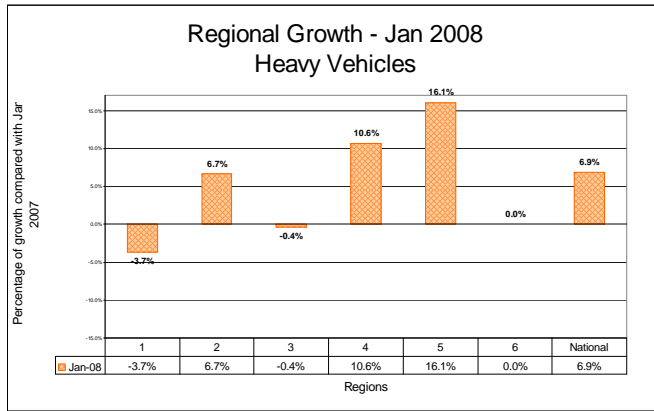
Regional Growth - Mar 2009
Heavy Vehicles

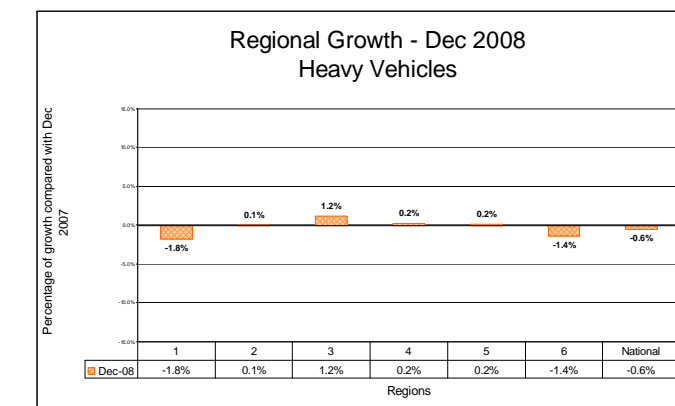
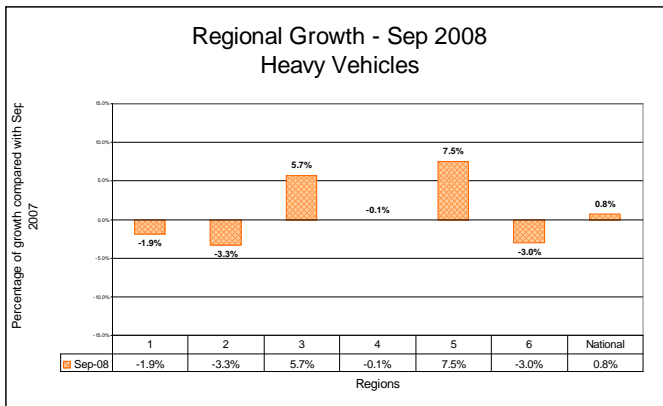
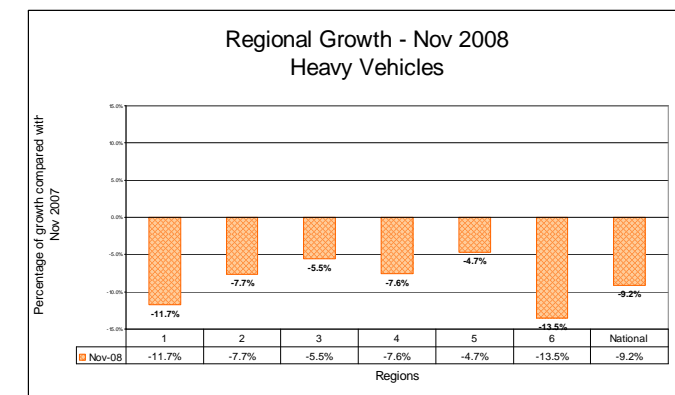
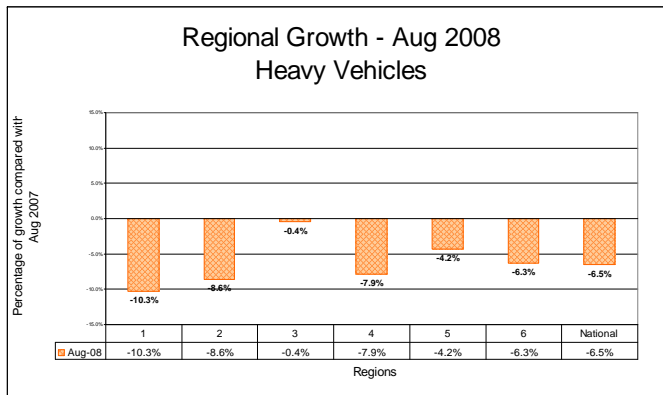
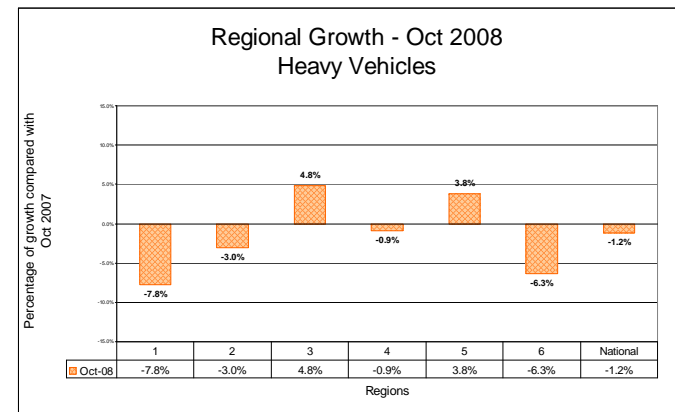
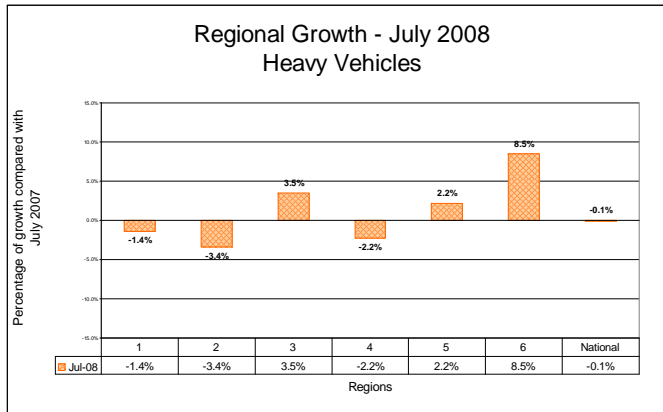


Regional Growth - Jun 2009
Heavy Vehicles

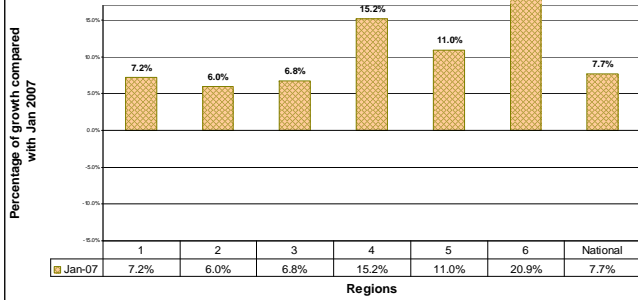




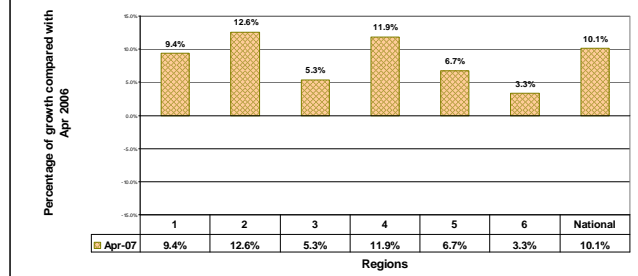




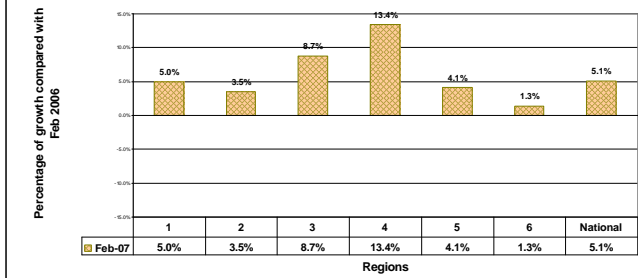
Regional Growth - Jan 2007 Heavy Vehicles



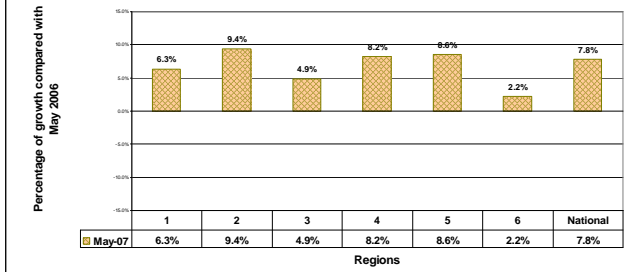
Regional Growth - Apr 2007 Heavy Vehicles



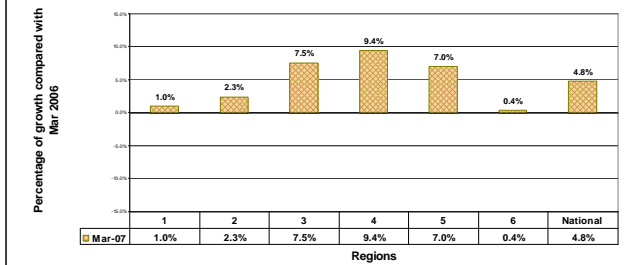
Regional Growth - Feb 2007 Heavy Vehicles



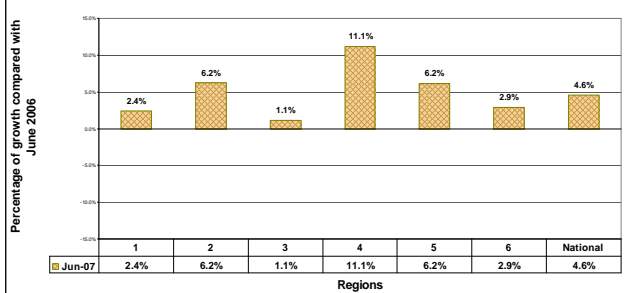
Regional Growth - May 2007 Heavy Vehicles



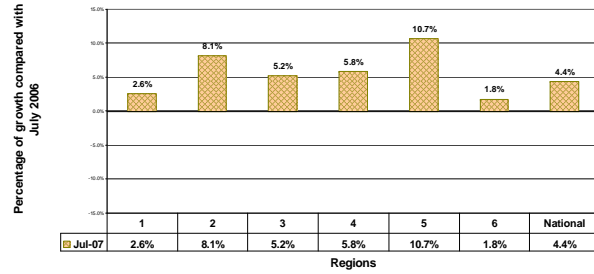
Regional Growth - Mar 2007 Heavy Vehicles



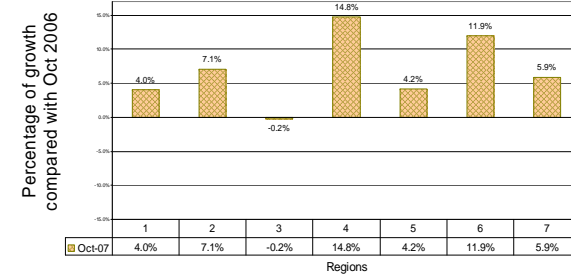
Regional Growth - June 2007 Heavy Vehicles



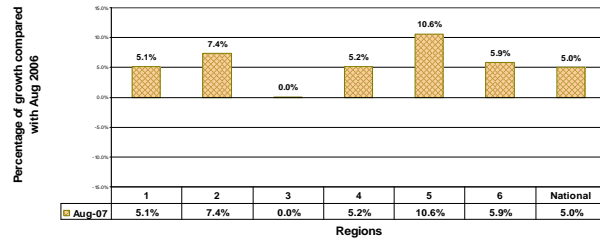
Regional Growth - July 2007 Heavy Vehicles



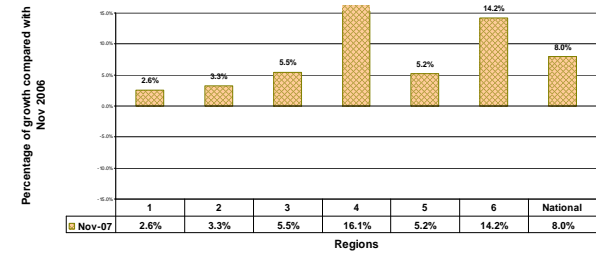
Regional Growth - Oct 2007 Heavy Vehicles



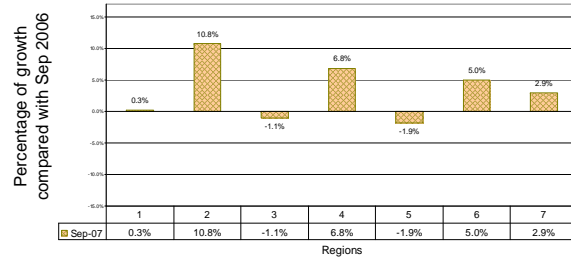
Regional Growth - Aug 2007 Heavy Vehicles



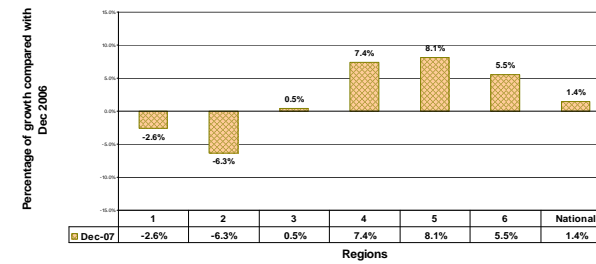
Regional Growth - Nov 2007 Heavy Vehicles



Regional Growth - Sep 2007 Heavy Vehicles



Regional Growth - Dec 2007 Heavy Vehicles



Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10
1	ID:01N00212	KAWAKAWA	6245	7049	7635	6772	6312	6452	5345	5351	5401	5159	5299	6147	6032
1	ID:01000029	Sth of Takou Bay Rd	3540	3927		3994	3787		3085	3081			3149		3532
1	ID:01N00274	Nth of Maungakareme Rd	13959	14688		14706	14424	14545				12234	12716		
1	ID:01200220	East of Brynderwyn Brg 161	2847	2900			3037	2838	2595					2676	2786
1	ID:01N00130	Nth of Ramseys Brg	1121	1293			1194	1197		998					
1	ID:01N00265	Sth of Selwyn Avenue				22947			22081			21546			
1	ID:01700006	HATFIELDS BEACH	5827	6733	7302	6473	5843	5829	5100	4862	5163	4802	4980	6060	5884
1	ID:01N10459	DRURY - SB		31856	30074	30620	30113	29833	27716	27361	28412	26845	27214	29305	30174
1	ID:01N20459	DRURY - NB		30272	30654	31181	30211	30070	27994	27475	28417	27078	27050	29555	30279
1	ID:01N00339	WELLSFORD	8871	10198	11878	10071	9173	9761	7941	7450	8127	7397	7456	9219	8737
1	ID:01N10440	PANAMA Rd - SB	62539	60908	56292	62318	63014	60094	59742			58579	56151		
1	ID:01N20440	PANAMA RD - NB	59448	57442	54884	59272	59335	56952	56372			55162	55062		
1	ID:01N10474	BOMBAY - SB		17882		19253	17940	18975	16117	16237	17120	15551	16287	18448	18064
1	ID:01N20474	BOMBAY - NB		18367		19199	18064	18935	16267	16211	16957	15689	15880	18409	18067
1	ID:01N00388	ALPURT	13415	15868	17735	15341	14062	14483	12291	11978	12661	11735	11944	14510	13997
1	ID:01N00424	Auckland Harbour Brg - Centre Span	85173	83000	78228	83216	85638	79222	79507	78904	80092	76796	75033	75886	80207
1	ID:01N10424	Auckland Harbour Brg - Left Clip-on	38714	32275	30569	38195	38319	36956	38376	37096	37143	38957	40071	40220	41890
1	ID:01N20424	Auckland Harbour Brg - Right Clip-on	42678	42414	38134	42551	43334	40179	39868	36393	35581	37511	41253	41501	42320
2	ID:00200002	MAUNGATAWHIRI	12693	14430	17100	14336	13291	14240	11328	11300	12057	10854	11217	13769	13003
2	ID:25A00011	NEEVESVILLE	3101	4145	5385	3854	3272	3694	2387	2401	2484	2260	2338	3354	3024
2	ID:02700011	KAIHERE	4186	4676	4697	4568	4352	4511	3862	3793	4060	3693	3786	4463	4341
2	ID:01N00526	TAUPIRI	20934	21832	21086	21695	20928	21182	19257	19825	20438	19082	19269	20775	21355
2	ID:01N00620	LICHFIELD	9215	9139		9579	9288	9741	8293	8340	8746	8017	8391	9314	9352
2	ID:00300085	TE KUITI	3921	4590	4334	4164	4108	4207	3677	3954	4316	3890	3837	4347	4001
2	ID:03200074	West of Taupo	847	832	995	835	747	854	591	665	771	651	692	764	736
2	ID:01N00580	KARAPIRO	14950	15705	15817	15706	15175		13671	14169	14169	13216	13346	14977	14953
2	ID:00200091	WAIHI	7366	8656	10169			6729	6641	6981	6347	6470	7877	7475	
2	ID:01N00729	HALLETTS BAY	5350	5646	7208	5849	5131	5805	4271	4381	5366	4522	4696	5479	5292
2	ID:01N00628	TOKOROA	8625	9227	9191	9007	8664	8797	7634	7703	8119	7545	7803	8366	8398
2	ID:00200141	TE PUNA	16531	17635	16951	17150	16646	16425	15876	15343	15603	14877	15140	16201	17039
2	ID:03010149	TE NGA	17480	17846	16982	17512	17532	17016	16625	16588	16761	16166	16230	17127	17635
2	ID:03020149	East end of Puarenga Brg (Dec)	17489	17545	17222	17578	17542	17015	16716	16644	16825	16277	16357	17298	17861
2	ID:00200204	OHINEPANEA	4880	5469	5601	5067	4944	5117	4555	4344	4558	4230	4361	4976	4990
2	ID:03000188	LAKE ROTOMA	2969	3356	3677	3171	3056	3169	2753	2807	2868	2597	2690	2936	2932
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	4207	4388	4799	4379	4224		3836	3603	3854	3504	3589	4136	4137
2	ID:00500034	TARUKENGA	5155	5623	5894	5463	5271	5731		4898	5183	4557	4632	5379	5182
2	ID:02900034	KAIMAI	9211	10106	10108	9676	9425	10014		8219	8361	7695	7737	8946	8882
2	ID:00500057	WAIIPA	7363	7893	8545	7858	7557	7652	6574	6475	7001	6423	6652	7289	7359
2	ID:00200176	TE PUKE		20129	19392	19596	19846	20172	19572	18109	18401	17771	17882	18749	19794
2	ID:00200242	AWAKERI	9104	9600	9084	8995	9228	9200	8332	8279	8634	8337	8607	8917	9327
3	ID:00200428	ORMOND	2436	2529	2745	2695	2620	2528	2185	2302	2229	2185	2166	2359	2435
3	ID:00200627	TANGOIO	1989	2298	2446	2230	2103	2264	1898	1835	1808	1826	1790	2030	2079
3	ID:00500230	TE POHUE	2808	2650		3337	2923	3142	1824	2382	2510	2237	2334	2819	2724
3	ID:05000010	Nth of Tutaekuri River	22120	22585	20841	22993	23557	22112	21287	21525	20567	20807	20809	20988	22820
3	ID:00300171	TONGAPORUTU Brg	2078	2448	2598	2287	2067	2308	1738	1915	1884	1679	1702	2170	2046
3	ID:00300267	TARIKI	9154	9401	8486	9172	9272	9155	8615	8615	8535	8288	8139	8756	9326
3	ID:00300370	WAITOTARA	3534	3800	3706	3737	3559	3696	3184	3066	3354	3116	3111	3580	3596
3	ID:04500101	OHAWA BEACH Rd	4311	4327	4074	4168	4050	3938	3557	3509	3535	3701	3812	4055	4382
3	ID:01N00930	SANSON	12361	13330	13158	13071	12605	13161	11581	11312	12099	11303	11247	12302	12397
3	ID:01N00988	OHAU	15257	16401	16592	16262	15384	15766	13843	13584	14519	13544	13690	15117	15098
3	ID:00200755	NORSEWOOD	3975	4536	4779	4448	4195	4376	3484	3351	3495	3270	3383	4031	3848

Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10
3	ID:00300489	MANAWATU GORGE	6809	7408	7469	7412	7074	7277	6492	6224	6742		5595	6538	6754
3	ID:00400133	HOROPITO	1748	2013	2145	1981	1759	1957	1418	1845	2393	2178		1933	1677
3	ID:00400226	UPOKONGARO	2018	2179	2229	2194	2058	2084	1769	1731	1862	1707	1763	2011	2029
3	ID:01N00827	HIHITAHU	4596	4926	5965	5040	4397	5154	3765	3996	4571	3919		4711	4515
4	ID:01N11068	NGAURANGA - SB	23446	22279	19697		23705	22655	22574	22181	22687	22369	22187	22576	23635
4	ID:00200895	CLAREVILLE	10861	11143	10246	11163	11143	10758	10294	9973	10180	9907	9926	10486	11040
4	ID:00200937	RIMUTAKA	5749	6143	6340	6068	5906	6161	5117	4880	5228	4839	4945	5863	5760
4	ID:01N01036	PUKERUA BAY	24151	24988	24379	25212	24384	24329	22623	22234	23286	22096	23023	24134	24534
4	ID:01N21068	NGAURANGA - NB	23432	22251	18402		23547	22411	22501	21976	22314		21941	22440	23080
4	ID:05800009	Pauatahanui East	14405	13461	12980	14533	14710	14160	13819	13550	13739	13966	13608	14187	14892
4	ID:00210979	NGAURANGA SH2 - SB	22333	21235	18046		22429	21736	21878	21403	21869	21686	21369	21727	22773
4	ID:00220979	NGAURANGA SH2 - NB	22271	21112	16747		22860	21494	21644	21135	21475		21139	21590	22151
4	ID:00600122	STOKE	22123	22645	21947	22527	22332	21331	20576	20161	20014	19981	20028		22696
4	ID:00600232	MURCHISON	1856	2086	2717	2354	2037	2073	1345	1273	1363	1262	1383	1720	1830
4	ID:00600100	HIRA	3374	3699	4092	3953	3718	3475	2882	2821	2763	2788	2843	3219	3379
4	ID:06000040	Riwaka	3844	4263	6311	5212	4261	3835	2869	2543	2467	2481	2603	3481	3835
4	ID:01S00037	Blenheim	3865	4029			3730	4242	3100	3068	3248	3184	3204	3454	3696
5	ID:01S00389	DUNSANDEL	10478	10955	10746	10959	10637	10970	9050	8840			9187	10196	10447
5	ID:01S00505	EVANS St Timaru	21138	22004	20106	20955	20770	20510	19086	19085	19189	18847	19292	20143	20982
5	ID:07300064	Springfield	1634	1782	1986	1951	1518	1779	1258	1281	1702	1568	1227	1643	1612
5	ID:01S00144	KAIKOURA	2683	2837	3662	3195	2686	2826	1908	1849	1974	1858	1977	2349	2553
5	ID:01S00522	ST ANDREWS	5839	6169			6169	6270	5129	5188	5237	4911	5215	5735	5799
5	ID:00700108	LEWIS PASS	1190	1375	1842	1430	1251	1373	884	874	947	864	846	1151	1142
5	ID:07409005	QE II Drive East Of Main Nth Rd	19383	19571	17299	19488	19443		18441			18005		19206	19819
5	ID:01S00285	WAIPARA	7663	8456	9235	8382	7898	8380	6374	6243	6584	6179	6441	7668	7609
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB	19881	20856	19696	20702	20456		18703	18310	18712	18885	19201	19648	20440
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB	19010	19966	18599	19603	19391		17793	17411	17813	18067	18387	18824	19625
5	ID:00600454	CHESTERFIELD	3012	3180	3297	3363	3389	3027	2501	2374	2442	2384	2506	2810	3106
5	ID:00700239	AHAURA	1291	1343	1368	1446	1390	1331	1169	1099	1105	1077	1141	1277	1280
5	ID:00600398	PUNAKAIKI	1080	1207	1388	1392	1190	1048	762	674	713	689	727	967	1073
6	ID:00800336	ALEXANDRA	2054	2339	2808	2373	2157	2439	1821	1833	1839	1881	1878	2088	2023
6	ID:01S10713	BURNSIDE - SB	16185	15886	13921	16199	16270	15587	15363	15699	15640	15456	14354	15613	16447
6	ID:01S20713	BURNSIDE - NB	11025	10763	9589	11196	11206	10828	10868	10774	10798	10572	9751	10640	11205
6	ID:01S50713	BURNSIDE - NB On Ramp	2618	2610	2262	2631	2586	2477	2526	2543	2559	2515	2374	2602	2707
6	ID:01S60713	BURNSIDE - SB Off Ramp	3217	3100	2767	3328	3218	3037	3117	3137	3102	3130	2915	3200	3419
6	ID:01S40713	BURNSIDE - NB Off Ramp	3471	3290	2982	3468	3442	3285	3393	3365	3279	3318	3094	3333	3533
6	ID:01S40714	Burnside - NB Off Ramp	2264	2203	1966	2302	2245	2096	2156	2135	2129	2174	2042	2231	2360
6	ID:01S00765	MILTON		6773	6344				5696	5677	5623	5482	5449	6149	6304
6	ID:06A00001	FRANKTON	16908	17806	18442	18236	17460	17145	14999	15566	17640	17488	16049	15765	16710
6	ID:08800004	RAVENSBOURNE	8750	8472	7792		8978	8364	8608	8434	8327	8468	8493	8700	9041
6	ID:01S00921	INVERCARGILL	12364	11630	9999	12000	12434	11401	11727	11433	11276	11293	10850	11112	12032
6	ID:00601147	WINTON	5004	5109	4529	4845	4801	4580	4520	4436	4365	4381	4236	4636	4873
6	ID:00601082	FIVE RIVERS	2042	2222	2505	2296	2078	2066	1430	1281	1351	1284	1310	1654	1897
6	ID:01S00854	GORE	4101	4133	3928	4354	4095	4033	3690	3716	3685	3659	3626	3963	4307
6	ID:09400141	TE ANAU	1419	1452	1590	1520	1479	1209	796	626	652	671	704	995	1320

Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10
1	ID:01N00212	KAWAKAWA	750	735	773	743	724	683	586	587	571	589	612	705	751
1	ID:01000029	Sth of Takou Bay Rd	290	295		305	301		232	233			240		298
1	ID:01N00274	Nth of Maungakaramea Rd	1509	1635		1592	1650	1654				1289	1316		
1	ID:01200220	East of Brynderwyn Brg 161	325	285			285	244	223					314	367
1	ID:01N00130	Nth of Ramseys Brg	163	159			194	167		154					
1	ID:01N00265	Sth of Selwyn Avenue													
1	ID:01700006	HATFIELDS BEACH	263	285	283	268	254	238	202	184	187	176	196	244	258
1	ID:01N10459	DRURY - SB		2379	2159	2593	2740	2502	2314	2301	2244	2170	2330	2406	2698
1	ID:01N20459	DRURY - NB		2229	2082	2502	2613	2406	2212	2199	2138	2067	2201	2301	2590
1	ID:01N00339	WELLSFORD	973	996	1138	1086	1046	963	834	816	775	784	820	955	994
1	ID:01N10474	BOMBAY - SB		2199		2239	2290	2087	1885	1877	1817	1764	1850	1972	2180
1	ID:01N20474	BOMBAY - NB		2329		2228	2215	2102	1930	1923	1868	1798	1865	2034	2284
1	ID:01N00388	ALPURT	1466	1551	1623	1587	1483	1361	1147	1146	1125	1084	1173	1357	1410
2	ID:00200002	MAUNGATAWHIRI	1689	1637	1712	1820	1896	1901	1562	1770	1964	1481	1502	1671	1850
2	ID:25A00011	NEEVESVILLE	286	352	388	300	294	318	209	198	205	199	219	300	283
2	ID:02700011	KAIHERE	885	854	792	905	949	839	810	756	743	732	794	866	956
2	ID:01N00526	TAUPIRI	2224	2102	1934	2240	2309	2074	1952	1952	1893	1859	1998	2108	2365
2	ID:01N00620	LICHFIELD	1462	1492		1396	1567	1494	1317	1237	1242	1206	1402	1470	1610
2	ID:00300085	TE KUITI	686	648	618	701	746	680	660	632	597	583	618	687	758
2	ID:03200074	West of Taupo	134	106	115	118	123	122	107	118	123	99	104	117	118
2	ID:01N00580	KARAPIRO	1548	1584	1586	1681	1624		1383	1313	1315	1378	1463	1600	1721
2	ID:00200091	WAIHI	872	859	884				773	756	743	705	727	823	907
2	ID:01N00729	HALLETTS BAY	820	717	800	859	853	808	739	670	688	665	714	766	872
2	ID:01N00628	TOKOROA	1482	1361	1241	1393	1577	1360	1271	1174	1163	1237	1371	1359	1514
2	ID:00200141	TE PUNA	1241	1184	1099	1233	1362	1296	1213	1084	1069	1014	1058	1139	1285
2	ID:03010149	TE NGA	1052	982	966	1075	1087	1000	931	922	905	872	920	986	1051
2	ID:03020149	East end of Puarenga Brg (Dec)	1095	1021	1017	1140	1151	1076	1020	1022	1006	970	1004	1076	1166
2	ID:00200204	OHINEPANEA	814	769	725	766	793	773	727	660	683	699	753	852	889
2	ID:03000188	LAKE ROTOMA	372	351	376	387	405	395	348	352	338	322	336	345	389
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	593	617	616	633	645		560	527	515	489	526	593	657
2	ID:00500034	TARUKENGA	613	622	600	643	650	682		536	569	548	590	617	699
2	ID:02900034	KAIMAI	1372	1196	1136	1238	1332	1248		1062	1058	1058	1059	1171	1338
2	ID:00500057	WAIPA	852	768	787	877	906	864	795	735	744	777	815	834	900
2	ID:00200176	TE PUKE		1675	1561	1850	2003	1986	1983	1757	1731	1723	1793	1889	2111
2	ID:00200242	AWAKERI	779	776	763	810	900	786	673	647	671	630	695	733	811
3	ID:00200428	ORMOND	227	217	263	292	327	277	218	242	209	203	209	224	254
3	ID:00200627	TANGOIO	353	353	360	392	422	409	389	346	335	349	326	343	430
3	ID:00500230	TE POHUE	533	471		551	572	545	388	495	464	440	451	482	552
3	ID:05000010	Nth of Tutaeuri River	1390	1486	1380	1542	1802	1596	1426	1361	1208	1201	1221	1304	1508
3	ID:00300171	TONGAPORUTU Brg	415	362	385	407	404	407	360	335	335	334	333	393	444
3	ID:00300267	TARIKI	1057	978	978	1043	1073	1002	924	825	818	848	899	1010	1087
3	ID:00300370	WAITOTARA	607	538	532	563	547	613	511	442	430	505	511	600	668
3	ID:04500101	OHAWA BEACH Rd	563	516	520	511	479	392	294	262	293	407	530	613	599
3	ID:01N00930	SANSON	1578	1518	1441	1557	1579	1576	1447	1383	1361	1356	1418	1517	1693
3	ID:01N00988	OHAU	1565	1499	1428	1605	1628	1548	1457	1402	1402	1351	1417	1496	1677
3	ID:00200755	NORSEWOOD	627	594	610	653	696	674	549	516	474	484	523	595	678
3	ID:00300489	MANAWATU GORGE	843	799	834	886	895	841	757	706	649		654	749	863

Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10
3	ID:00400133	HOROPITO	309	309	288	322	338	320	272	323	279	270		281	312
3	ID:00400226	UPOKONGARO	188	168	173	200	195	170	142	133	141	131	142	151	176
3	ID:01N00827	HIHITAH	888	792	809	905	892	934	858	845	827	792		861	989
4	ID:01N11068	NGAURANGA - SB	799	764	710		821	650	557	564	571	544	605	606	644
4	ID:00200895	CLAREVILLE	617	570	519	626	640	608	516	464	472	475	527	591	662
4	ID:00200937	RIMUTAKA	353	330	324	345	361	353	303	271	274	278	279	325	360
4	ID:01N01036	PUKERUA BAY	1683	1568	1399	1674	1796	1666	1609	1605	1588	1534	1732	1714	1951
4	ID:01N21068	NGAURANGA - NB	760	738	641		740	700	676	670	681		718	716	730
4	ID:05800009	Pauatahanui East	462	704	733	810	814	572	522	499	517	531	519	565	629
4	ID:00210979	NGAURANGA SH2 - SB	767	724	646		773	694	665	699	684	679	667	713	798
4	ID:00220979	NGAURANGA SH2 - NB	732	697	559		781	714	704	723	709		716	746	803
4	ID:00600122	STOKE	1281	1176	1198	1372	1504	1366	1273	1205	1172	1123	1150		1404
4	ID:00600232	MURCHISON	295	283	372	340	323	298	240	208	208	212	292	282	317
4	ID:00600100	HIRA	477	471	472	554	556	519	448	428	402	407	456	465	495
4	ID:06000040	Riwaka	263	265	364	341	317	276	208	161	138	155	168	229	265
4	ID:01S00037	Blenheim	566	606			608	754	500	455	461	463	476	555	602
5	ID:01S00389	DUNSANDEL	1531	1498	1442	1595	1604	1513	1277	1103			1315	1477	1621
5	ID:01S00505	EVANS St Timaru	1592	1498	1379	1566	1656	1462	1313	1157	1151	1255	1370	1511	1678
5	ID:07300064	Springfield	211	213	216	252	205	213	172	153	153	174	149	215	226
5	ID:01S00144	KAIKOURA	499	455	520	539	497	527	436	409	414	411	419	492	555
5	ID:01S00522	ST ANDREWS	948	931			1035	928	769	686	662	712	840	908	963
5	ID:00700108	LEWIS PASS	196	195	273	220	211	200	160	144	136	145	190	177	190
5	ID:07409005	QE II Drive East Of Main Nth Rd	567	521	475	583	578		477			459		636	582
5	ID:01S00285	WAI PARA	1097	1100	1118	1224	1255	1196	1003	842	834	852	1001	1037	1132
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB	1146	1115	1109	1182	1157		962	982	983	1018	1201	1182	1274
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB	1073	1084	1010	1095	1063		882	884	892	944	1133	1117	1197
5	ID:00600454	CHESTERFIELD	383	354	346	364	363	312	250	198	202	234	308	385	410
5	ID:00700239	AHAURA	207	195	195	229	203	187	164	152	144	149	182	207	221
5	ID:00600398	PUNAKAIKI	132	124	131	140	128	106	76	58	62	75	94	111	139
6	ID:00800336	ALEXANDRA	186	211	269	231	213	214	175	159	151	170	167	183	189
6	ID:01S10713	BURNSIDE - SB	910	891	759	922	926	870	737	1056			1054		
6	ID:01S20713	BURNSIDE - NB	735	699	639	767	785	750	726	956			999		
6	ID:01S50713	BURNSIDE - NB On Ramp	113	107	94	117	117	106	108	117	115	112	111	131	135
6	ID:01S60713	BURNSIDE - SB Off Ramp	203	196	177	214	211	192	196	207	204	208	197	225	231
6	ID:01S40713	BURNSIDE - NB Off Ramp	199	187	192	211	209	195	193	190	188	186	184	197	211
6	ID:01S40714	Burnside - NB Off Ramp	71	78	68	86	75	69	73	78	76	80	70	82	83
6	ID:01S00765	MILTON		821	709				725	645	587	596	683	839	923
6	ID:06A00001	FRANKTON	979	997	1062	1077	1074	996	766	744	904	899	855	867	963
6	ID:08800004	RAVENSBORNE	474	453	464		528	467	453	438	420	422	413	516	536
6	ID:01S00921	INVERCARGILL	427	404	340	438	448	398	380	353	338	348	351	351	380
6	ID:00601147	WINTON	527	503	483	535	554	465	414	377	371	459	440	553	554
6	ID:00601082	FIVE RIVERS	238	241	260	263	258	219	167	127	133	137	141	186	238
6	ID:01S00854	GORE	562	539	496	583	565	519	444	353	344	393	473	505	607
6	ID:09400141	TE ANAU	177	159	174	171	179	144	98	67	68	76	93	122	165