



Traffic Volumes Monthly Report
September 2010

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Quality Assurance Statement

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Approved for issue by:

Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	7/10/2010	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 September 2010, compared with September 2009, the monthly average daily traffic (MADT) for all vehicles reduced by 3.4 percent; while the MADT for heavy vehicles increased by 1.1 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.

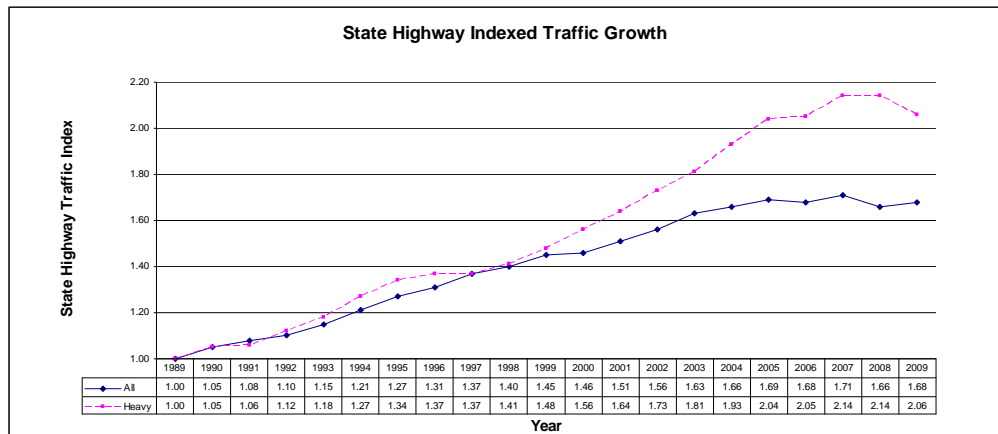
2009 All Vehicles

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 September 2010, September 2009 and percentage of difference compared are reported in the table below.

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) September-09	MADT (All Vehicles) September-10	% Change
Auckland harbour bridge (SH1)	Auckland	162398	156357	-4%
Karapiro (SH1)	Hamilton	13898	13346	-4%
Ngauranga Interchange (SB only SH 1 and SH 2)	Wellington	43482	43556	0%
Wimakariri Bridge (SH1)	Christchurch	36134	37588	4%
Burnside	Dunedin	25405	24105	-5%

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

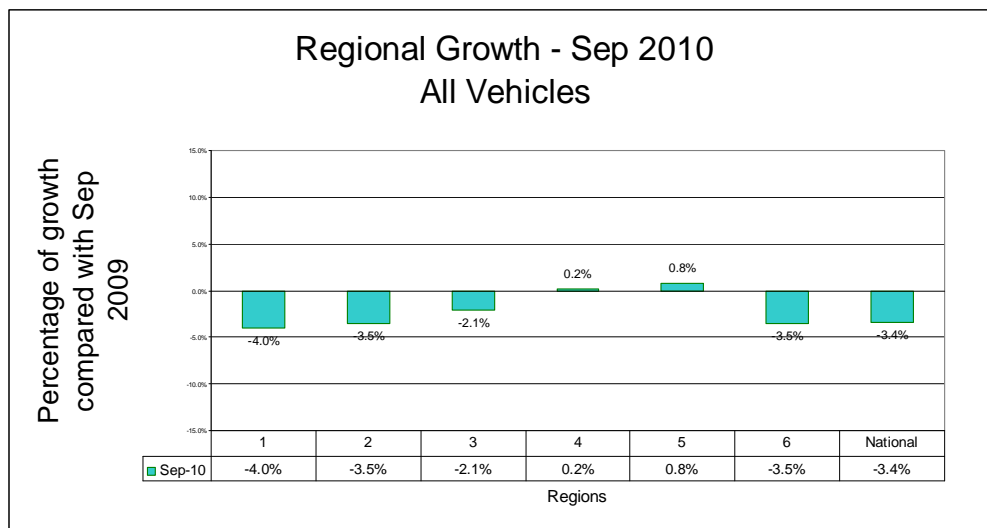
It is noted that the site representing Hamilton is not within the city boundary. A more suitable site has now been installed and once 13 months of data is available we will provide data for use within this report. Please also note that the required accuracy for the delivery of data at a single site is +/- 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 most regions had a decrease of between 2.1% and 4%, except the region 4 and 5 which had a minor increase¹. Nationally, the MADT in September 2010 for all vehicles had a decrease of 3.4%², compared with September 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.

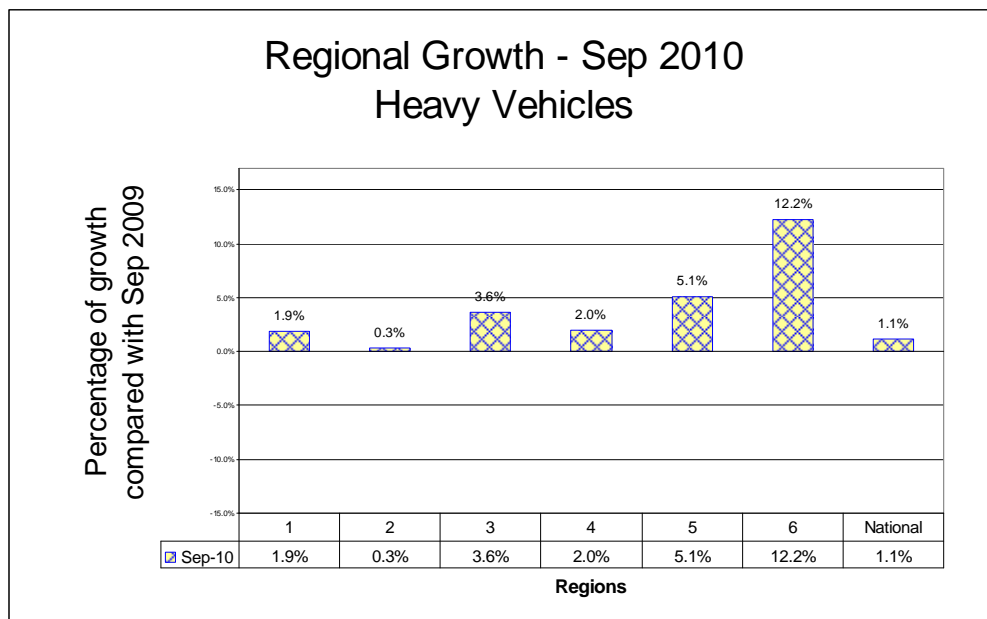
² National MADT Growth – Average growth of the entire telemetry sites (not weighted).

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 0.3% and 12.2%². Nationally, the MADT in September 2010 for heavy vehicles continues to increase by 1.1%³, compared with September 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).

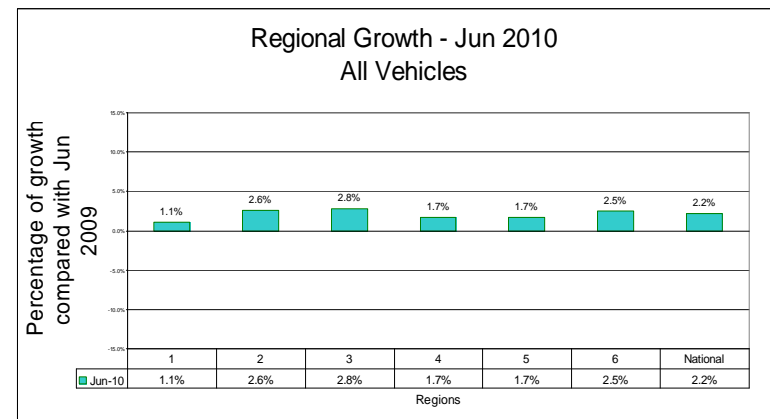
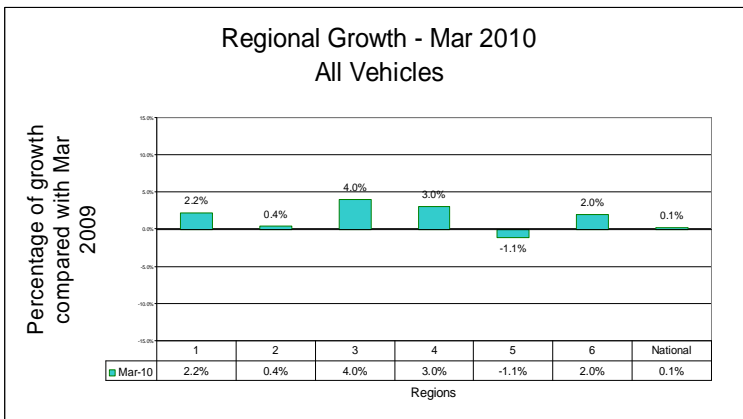
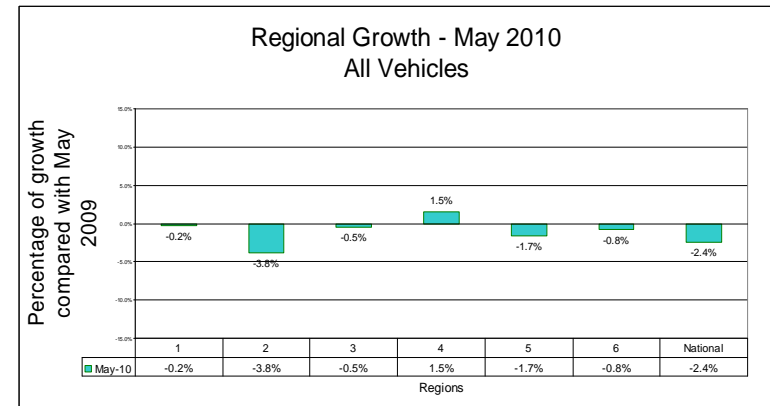
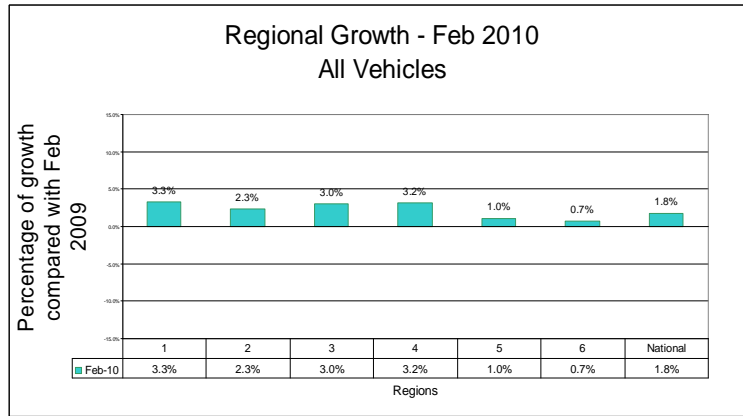
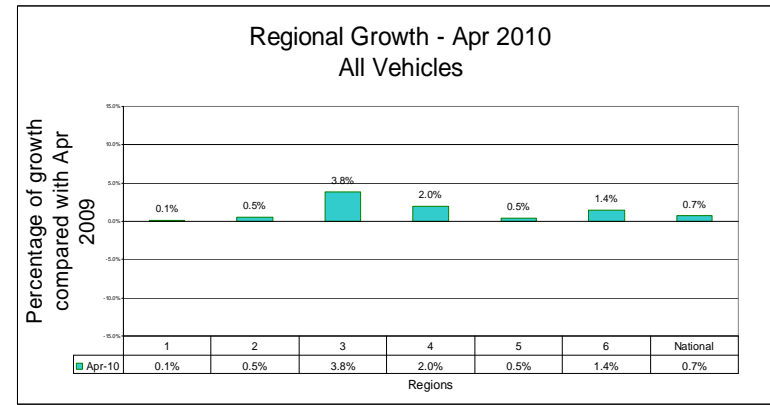
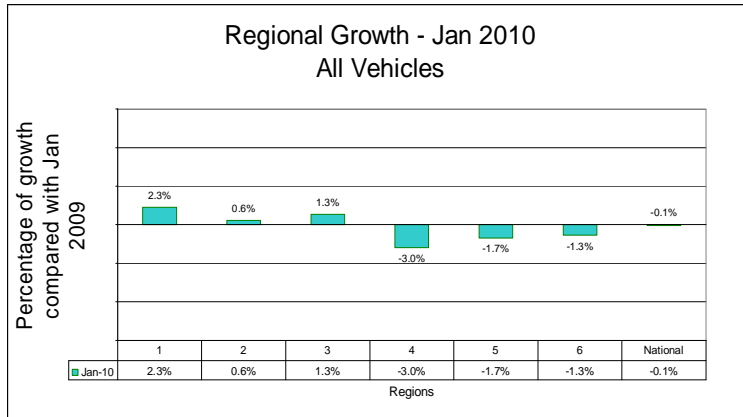
Appendices

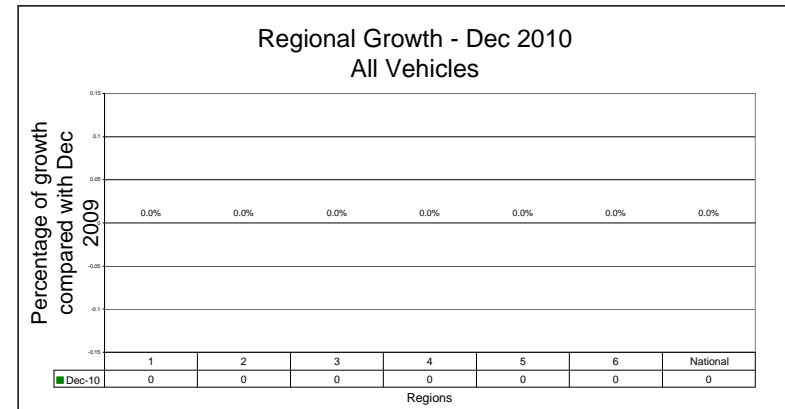
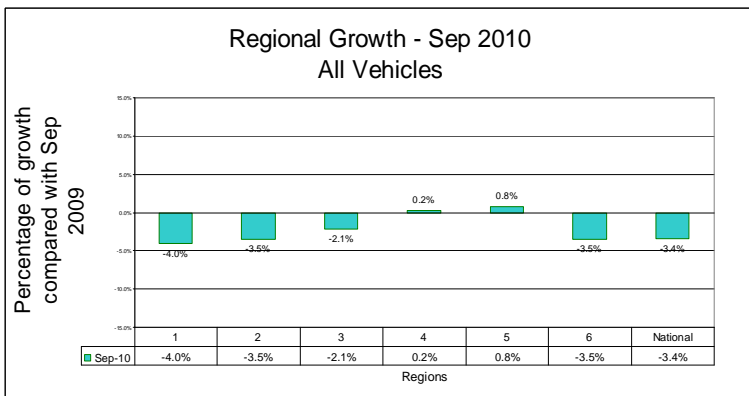
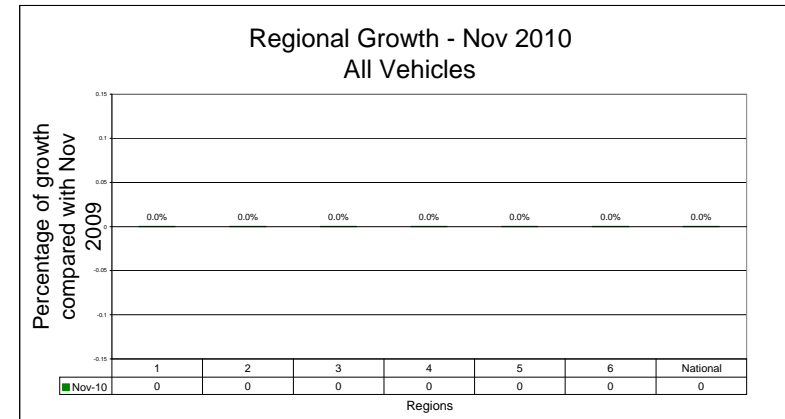
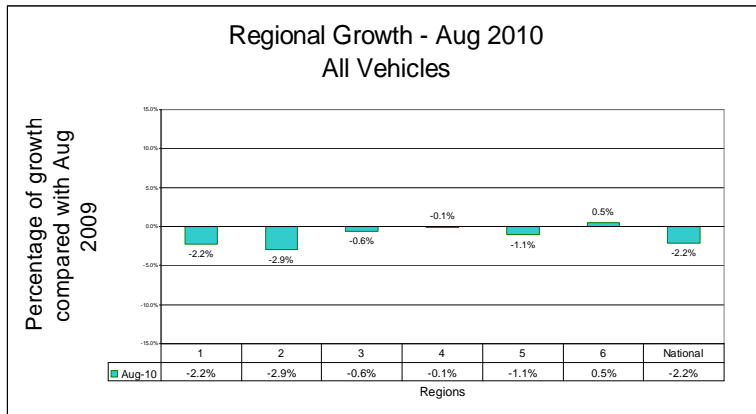
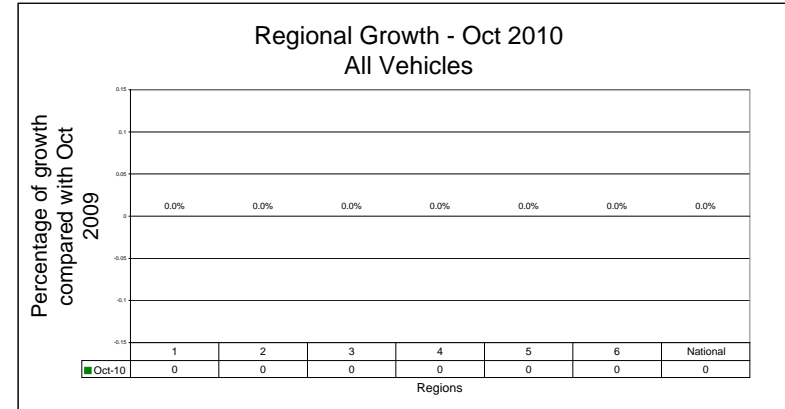
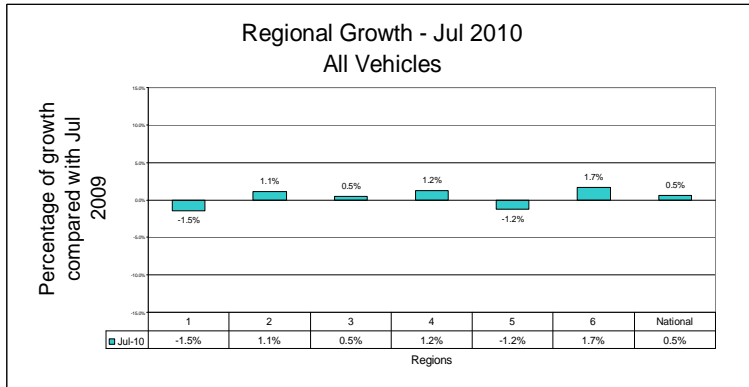
Current and Previous Years Growth Graphs: 2010, 2009, 2008 and 2007

- All Vehicles
- Heavy Vehicles

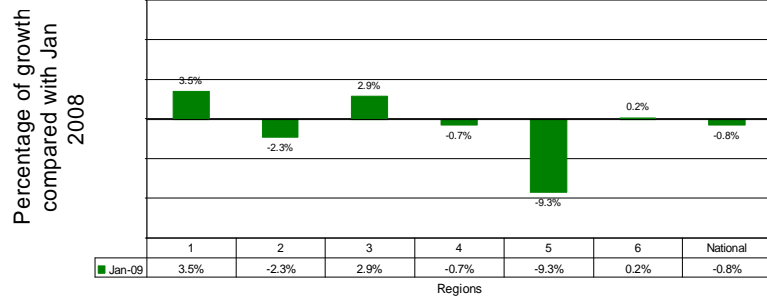
Telemetry Site MADT's for the past twelve months

- All Vehicles
- Heavy Vehicles

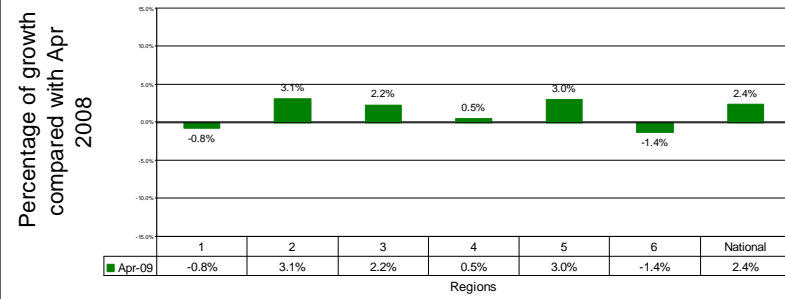




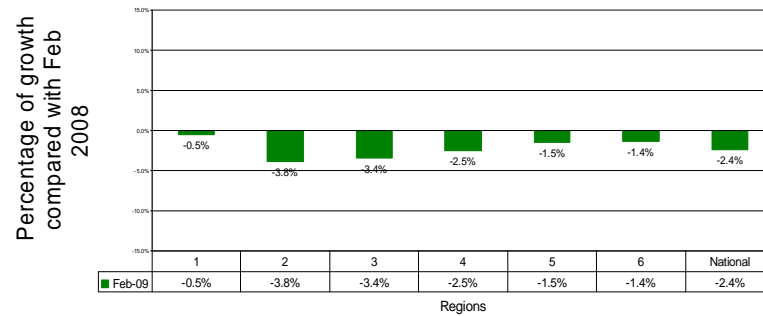
Regional Growth - Jan 2009
All Vehicles



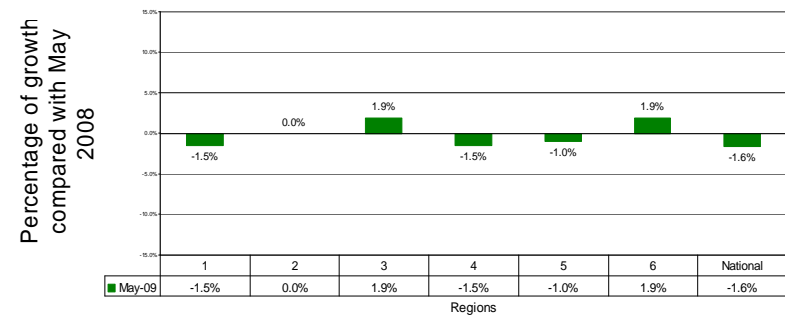
Regional Growth - Apr 2009
All Vehicles



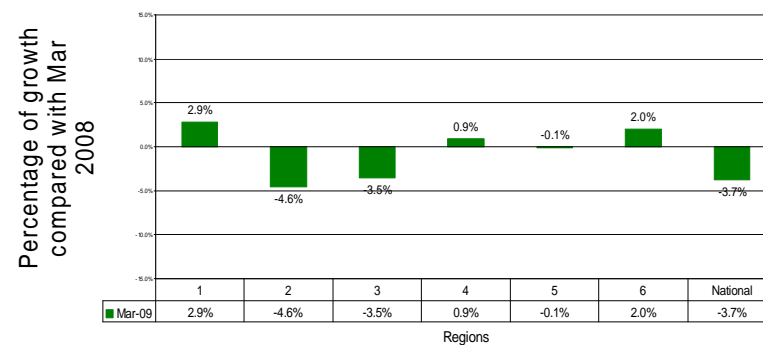
Regional Growth - Feb 2009
All Vehicles



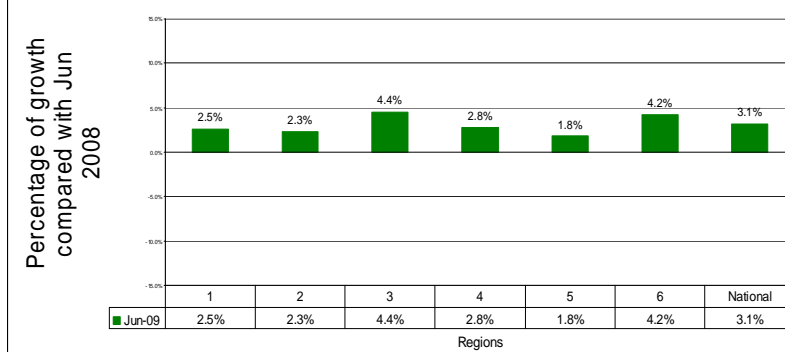
Regional Growth - May 2009
All Vehicles



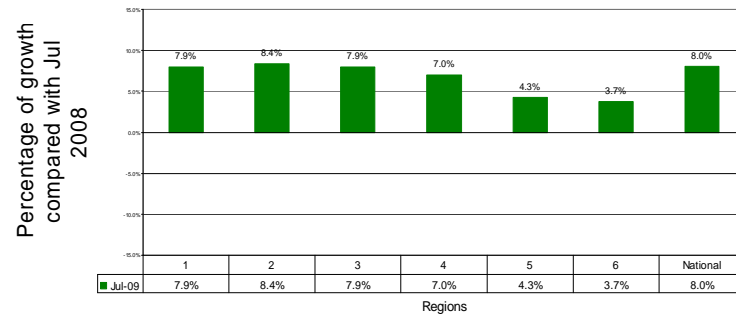
Regional Growth - Mar 2009
All Vehicles



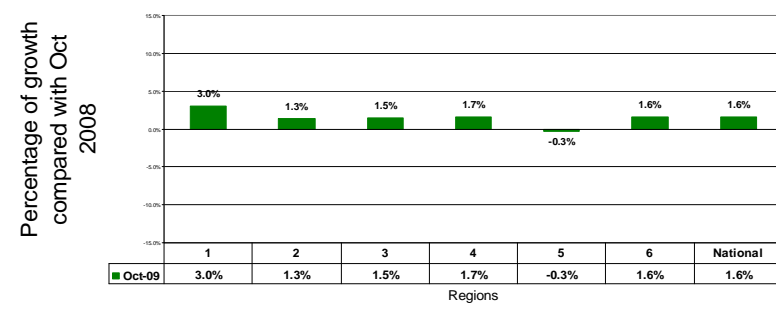
Regional Growth - Jun 2009
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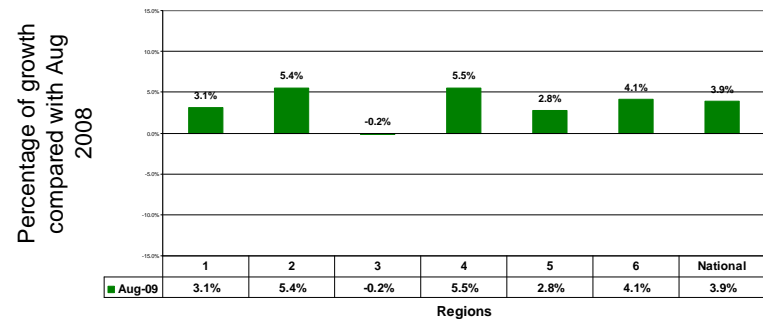
Regional Growth - Jul 2009
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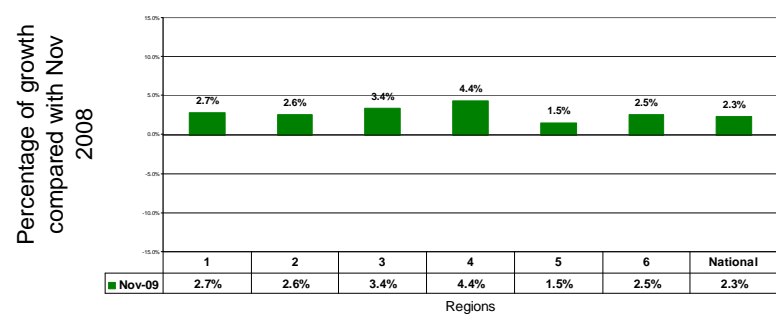
Regional Growth - Oct 2009
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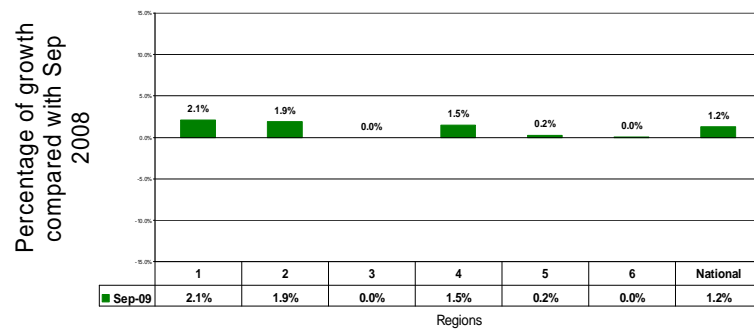
Regional Growth - Aug 2009
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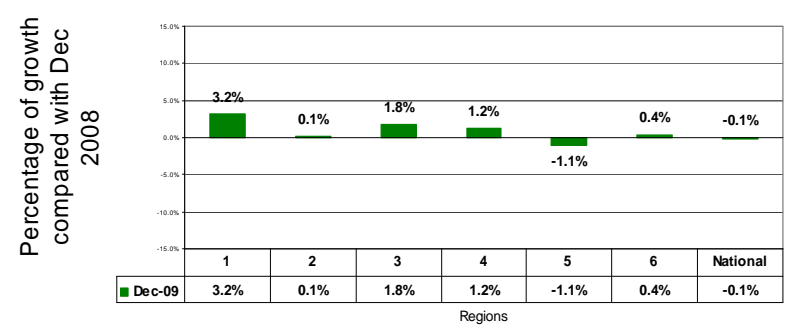
Regional Growth - Nov 2009
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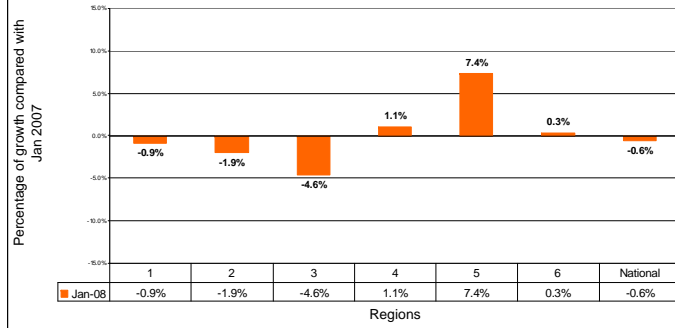
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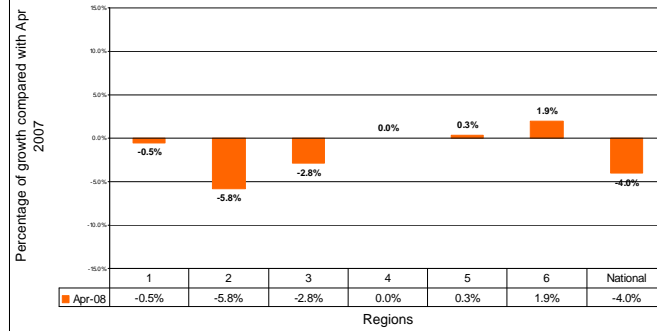
Regional Growth - Dec 2009
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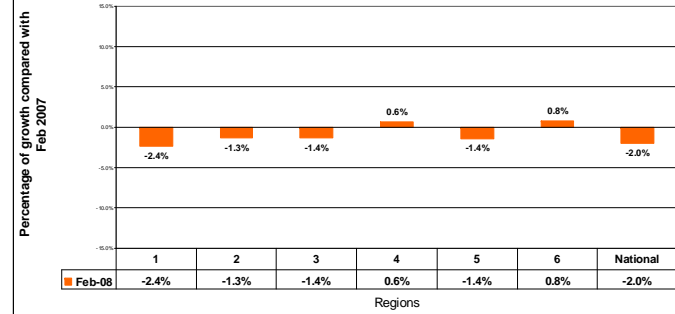
Regional Growth - Jan 2008
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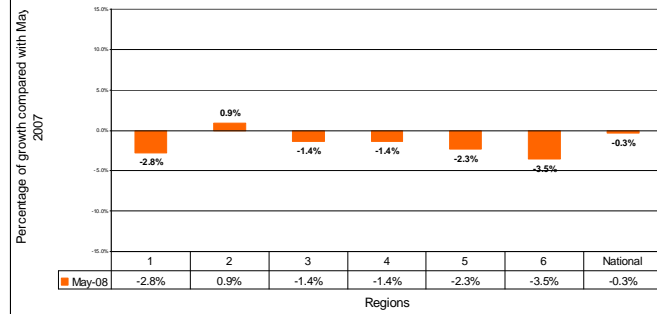
Regional Growth - Apr 2008
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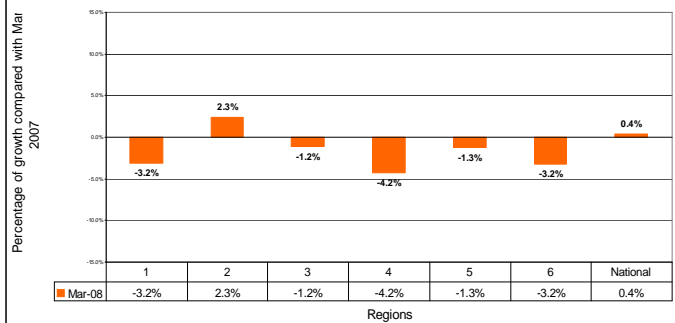
Regional Growth - Feb 2008
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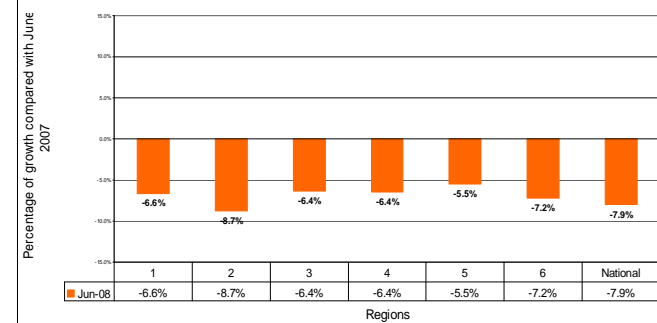
Regional Growth - May 2008
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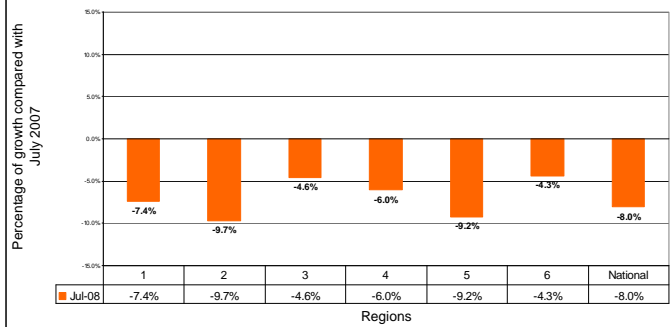
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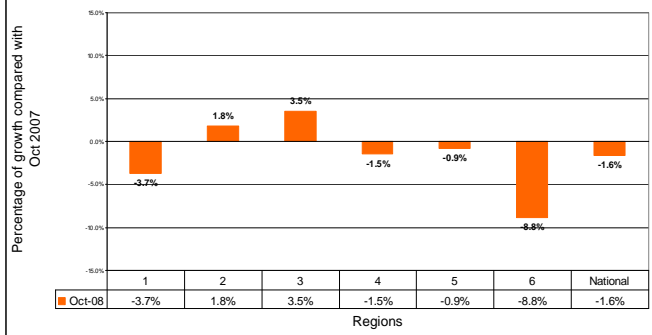
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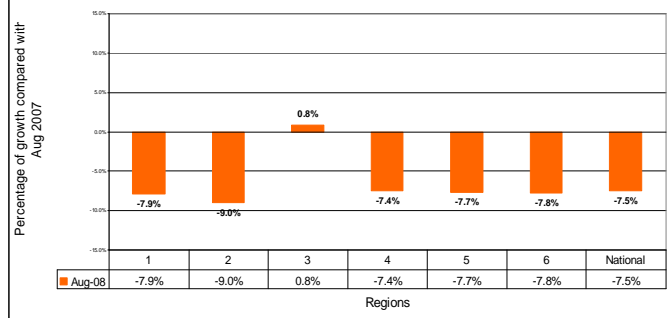
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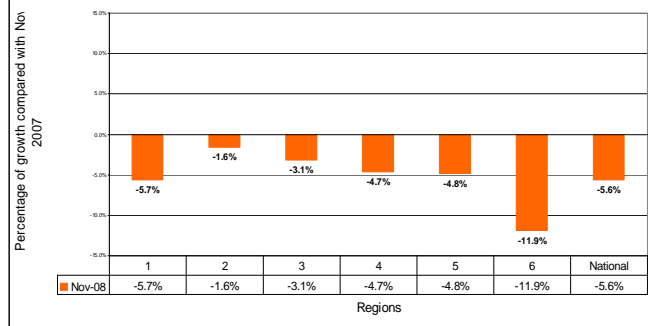
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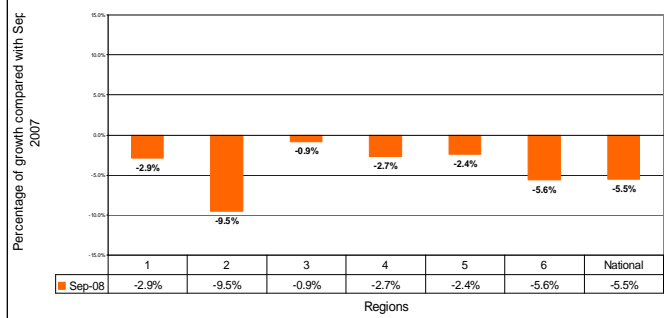
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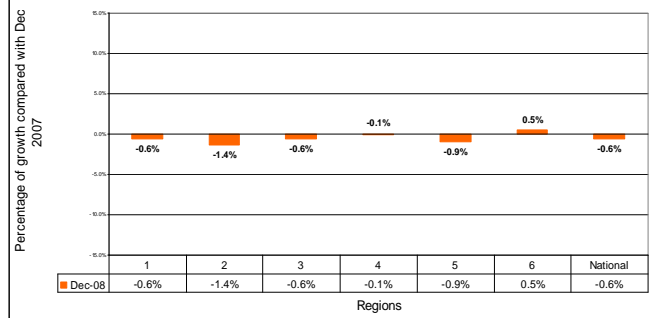
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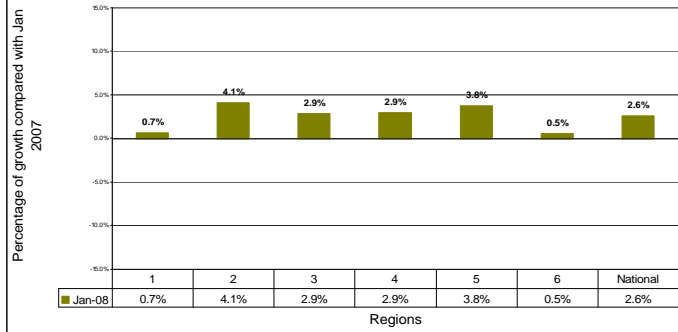
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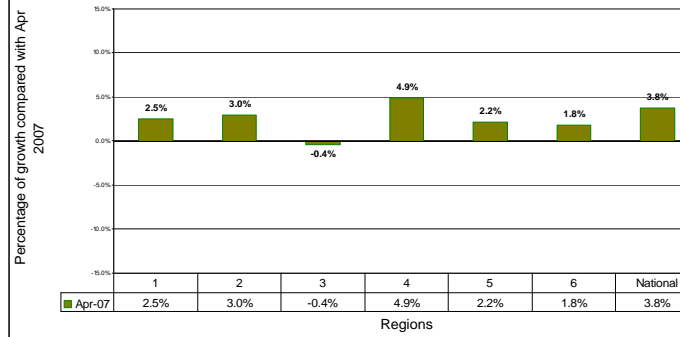
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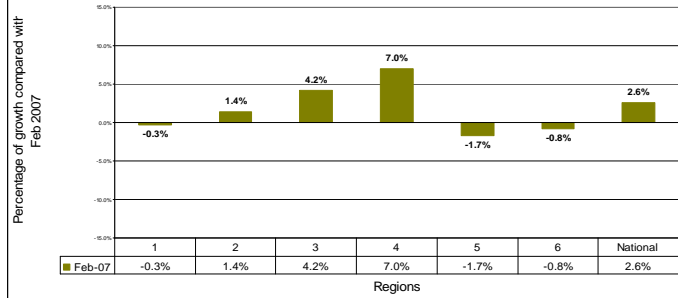
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Regional Growth - Apr 2007 All Vehicles



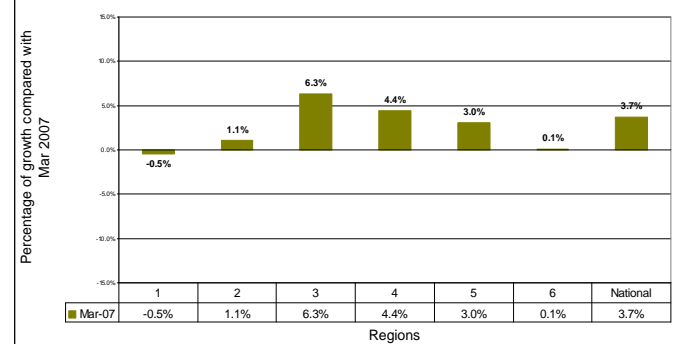
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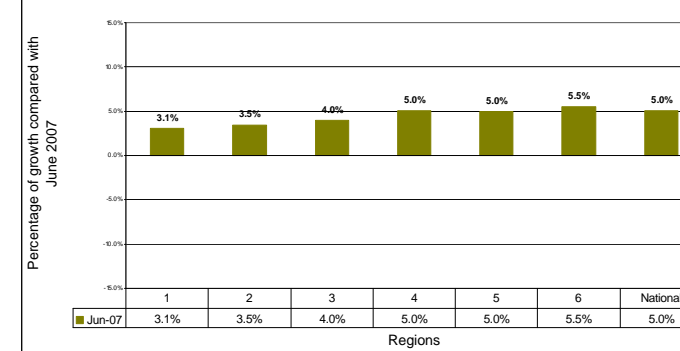
Regional Growth - May 2007 All Vehicles



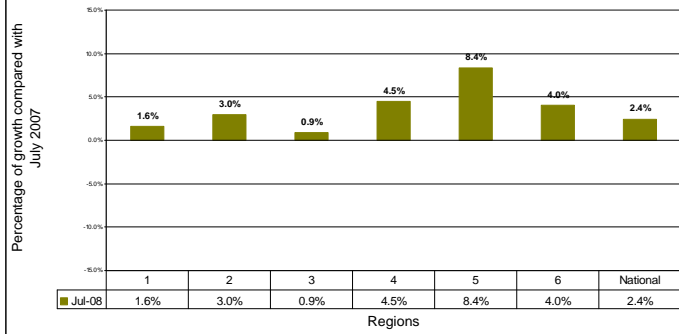
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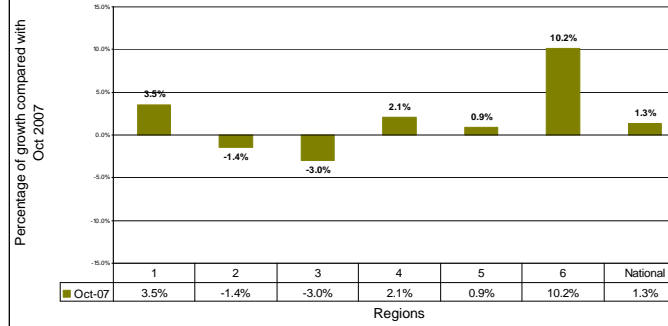
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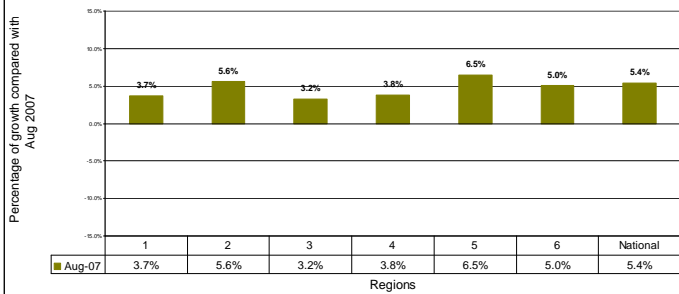
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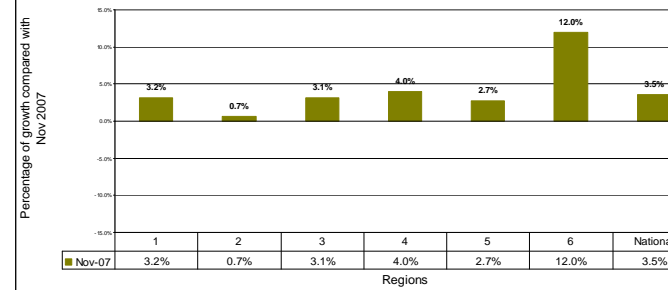
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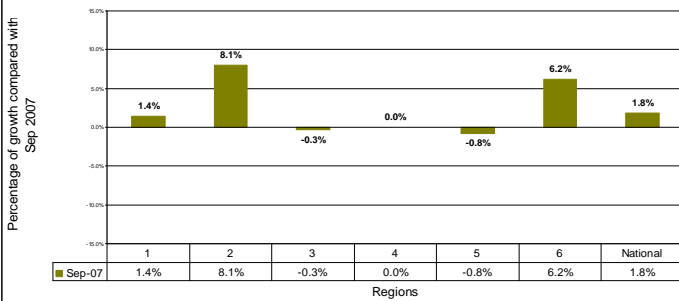
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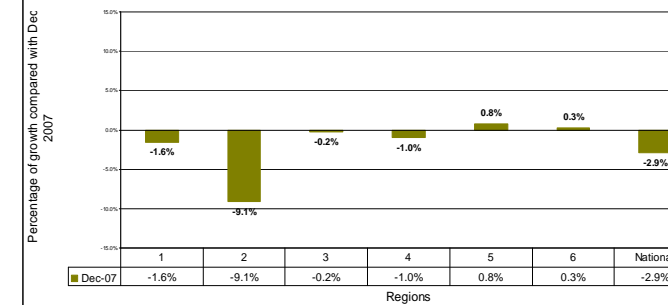
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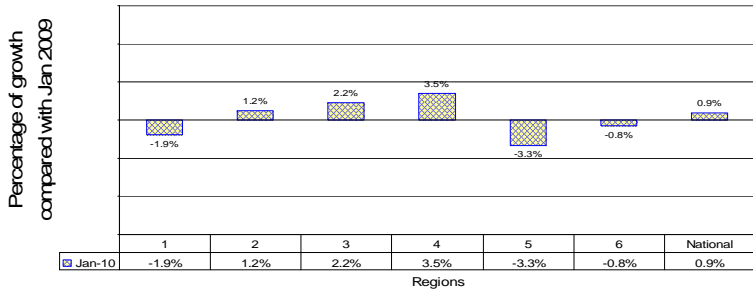
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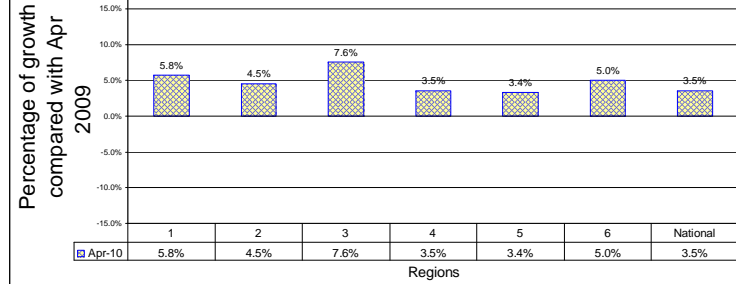
Regional Growth - Dec 2007
All Vehicles



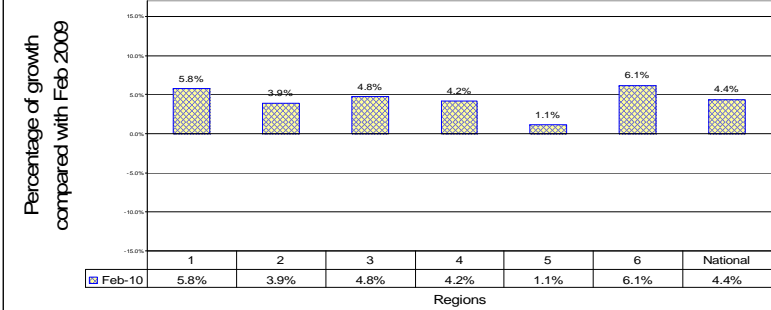
Regional Growth - Jan 2010
Heavy Vehicles



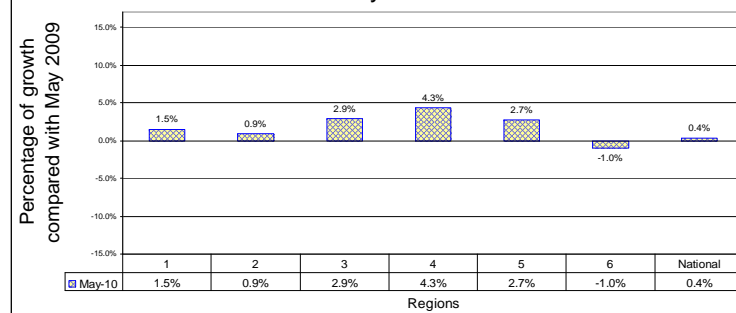
Regional Growth - Apr 2010
Heavy Vehicles



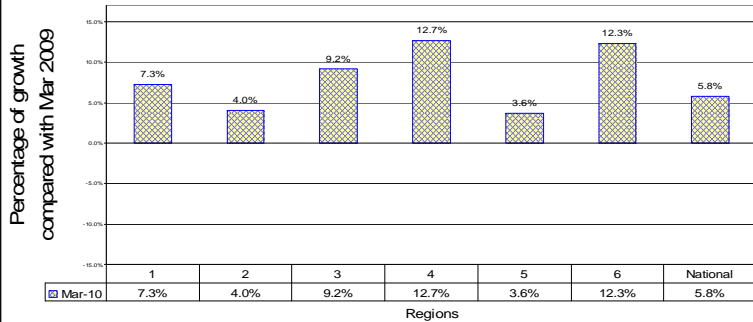
Regional Growth - Feb 2010
Heavy Vehicles



Regional Growth - May 2010
Heavy Vehicles

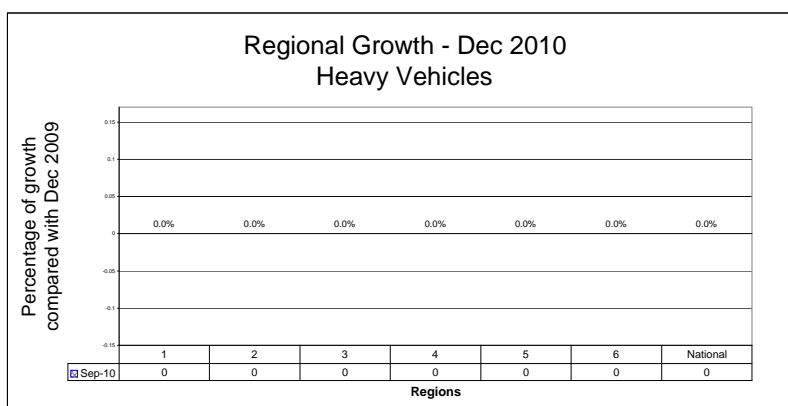
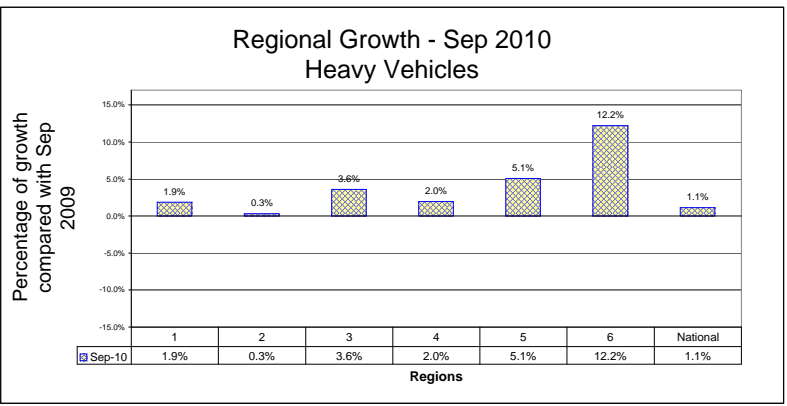
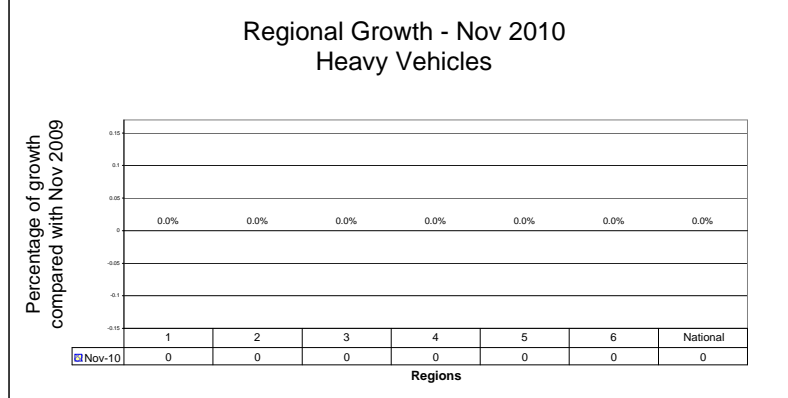
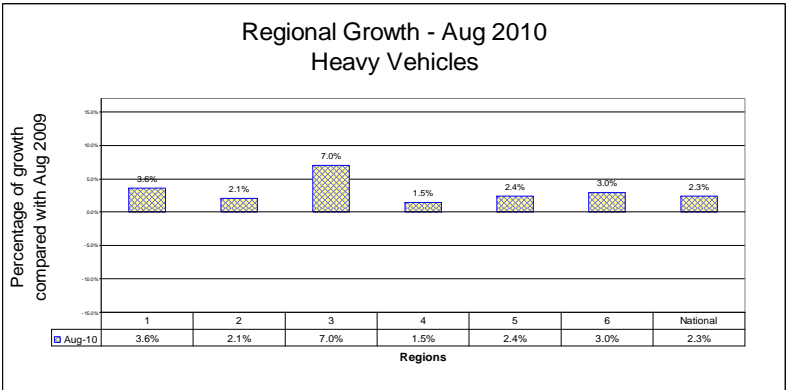
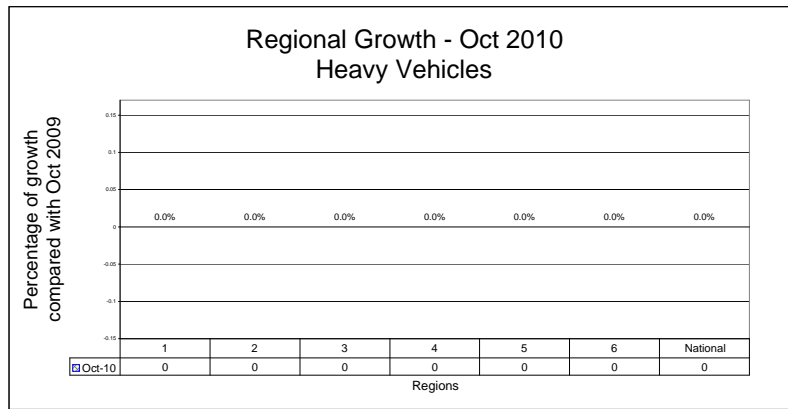
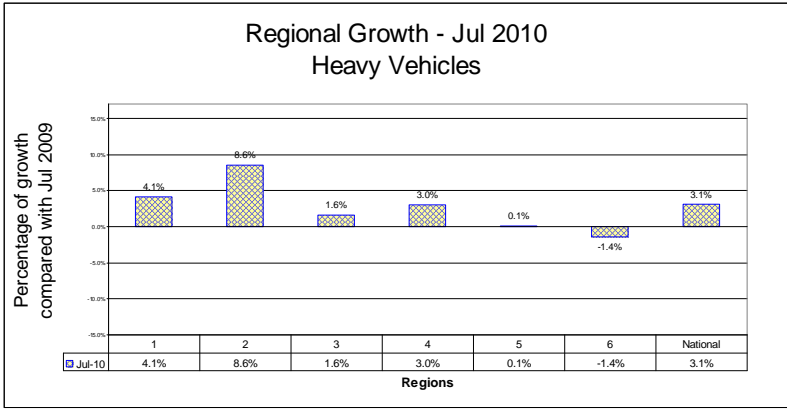


Regional Growth - Mar 2010
Heavy Vehicles

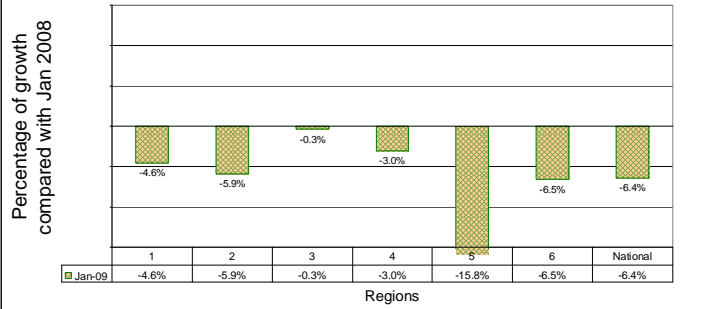


Regional Growth - Jun 2010
Heavy Vehicles





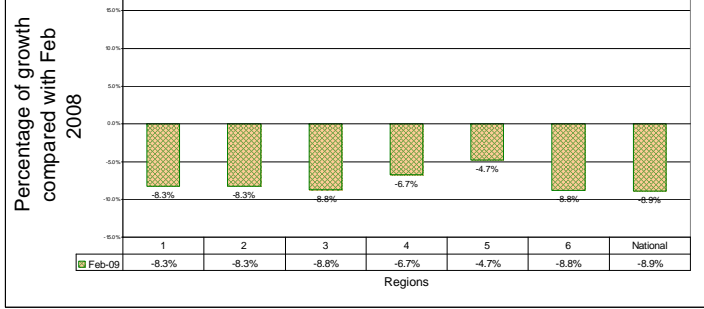
Regional Growth - Jan 2009
Heavy Vehicles



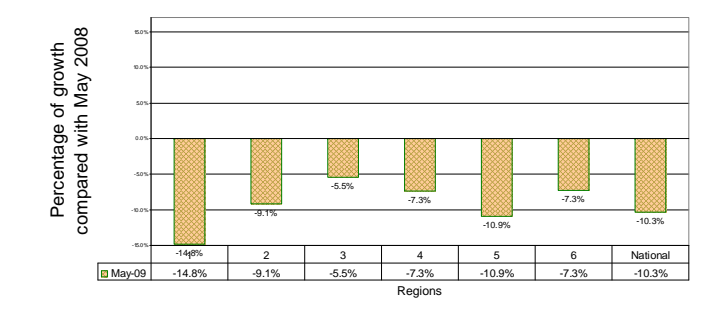
Regional Growth - Apr 2009
Heavy Vehicles



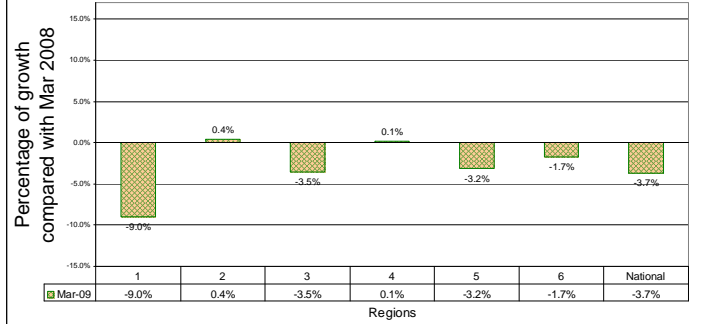
Regional Growth - Feb 2009
Heavy Vehicles



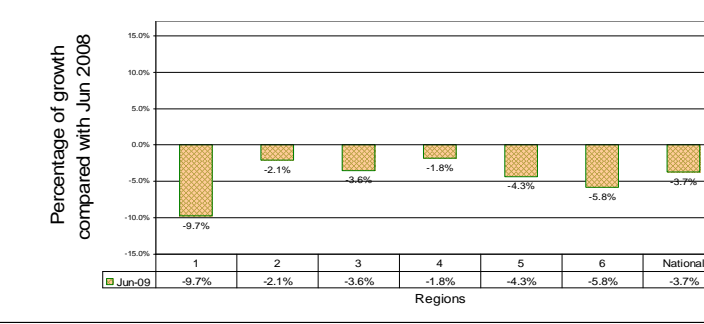
Regional Growth - May 2009
Heavy Vehicles

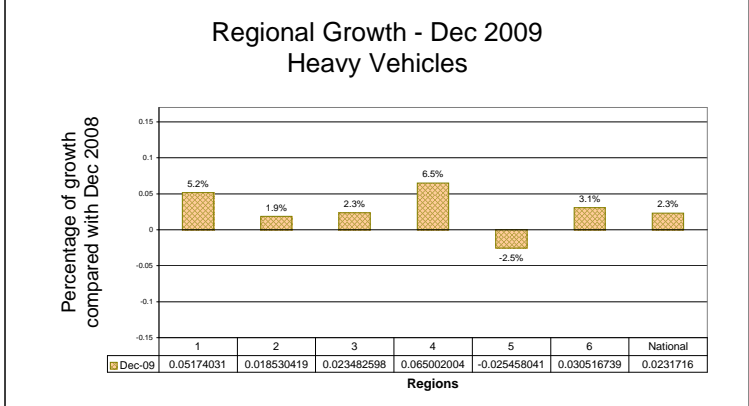
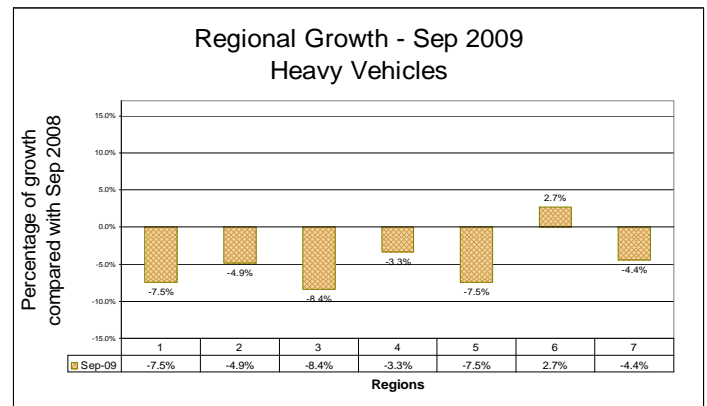
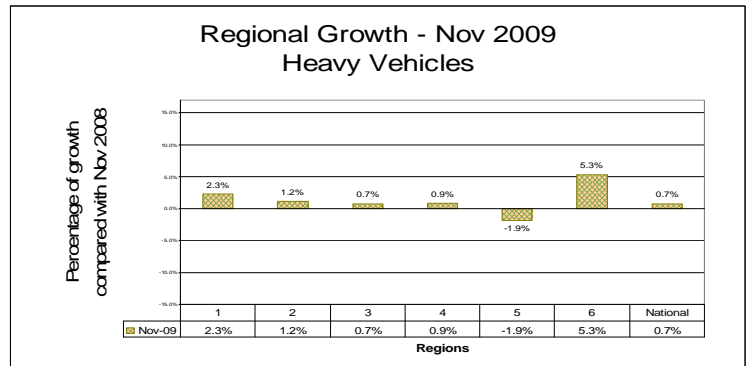
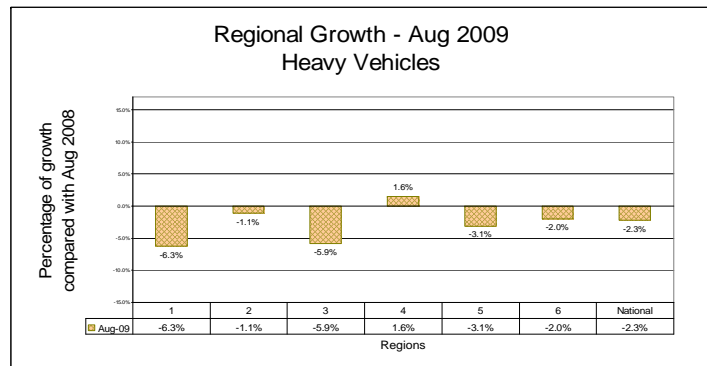
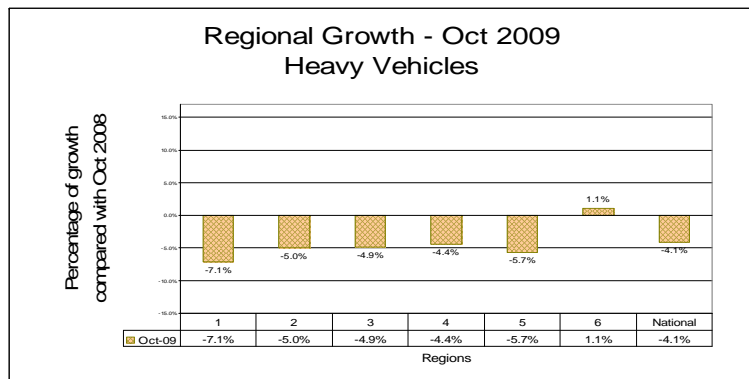
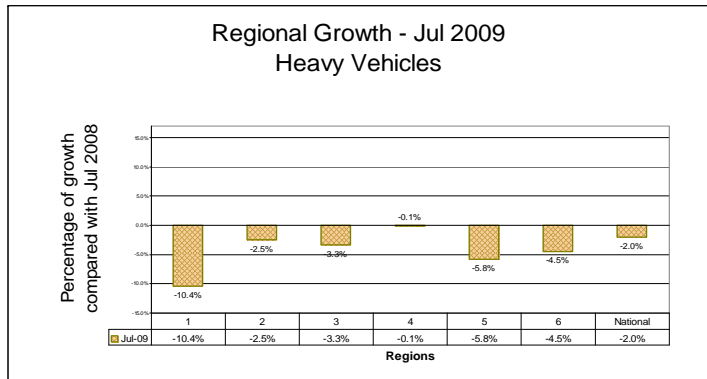


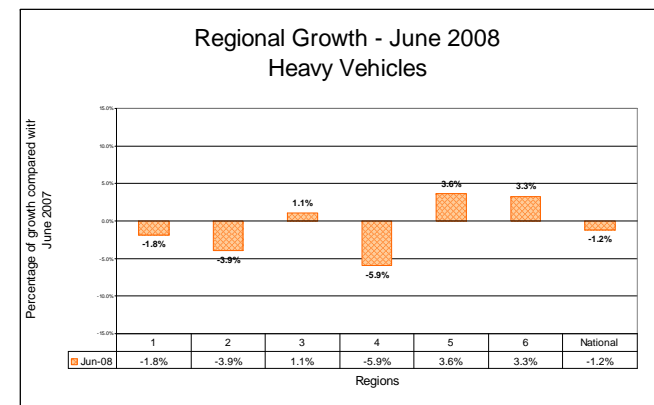
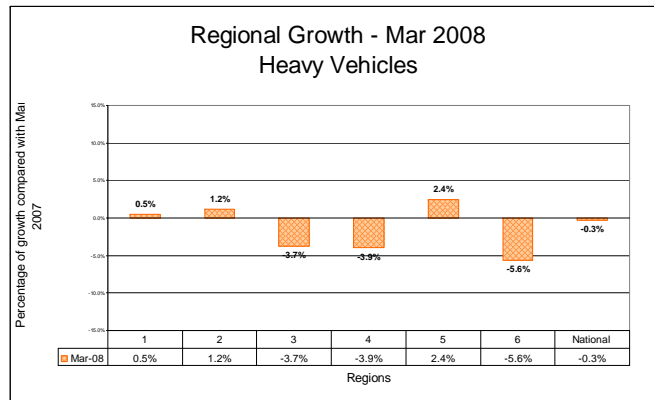
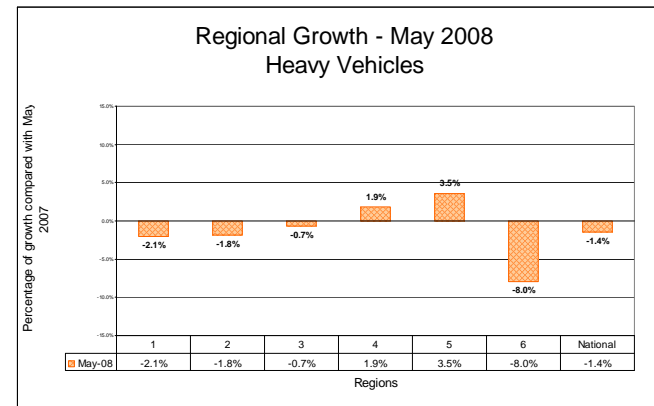
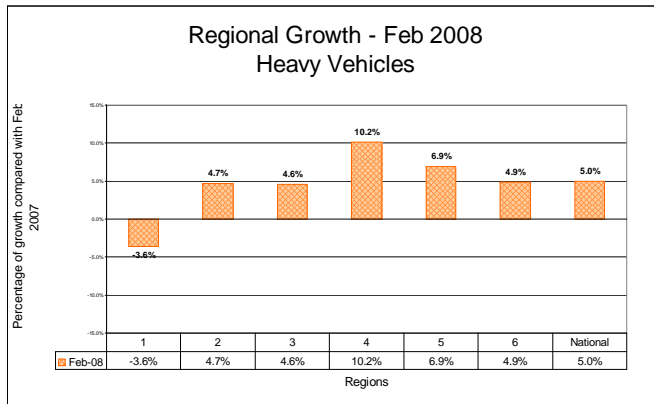
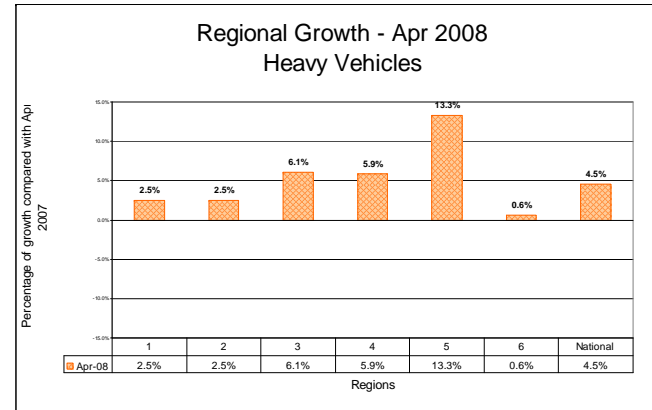
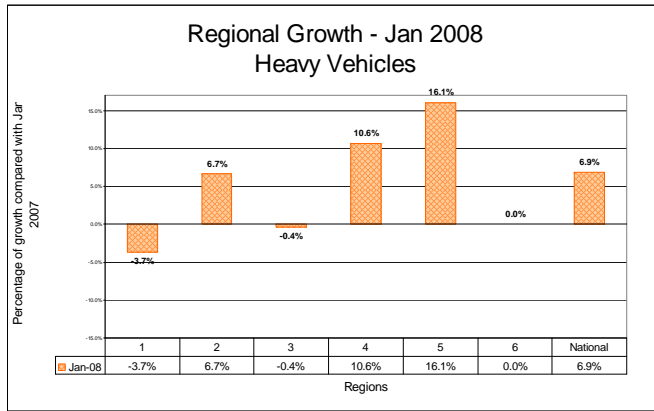
Regional Growth - Mar 2009
Heavy Vehicles

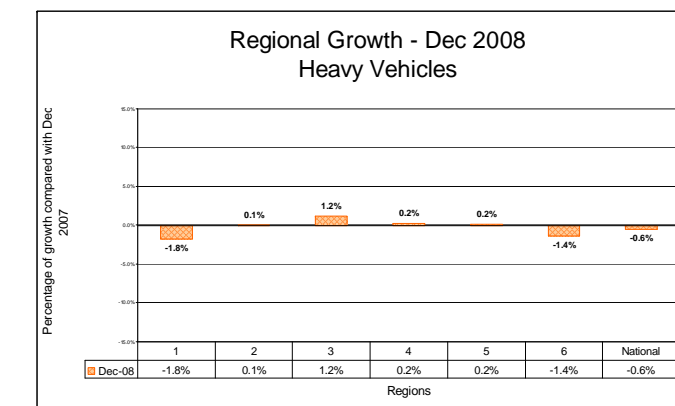
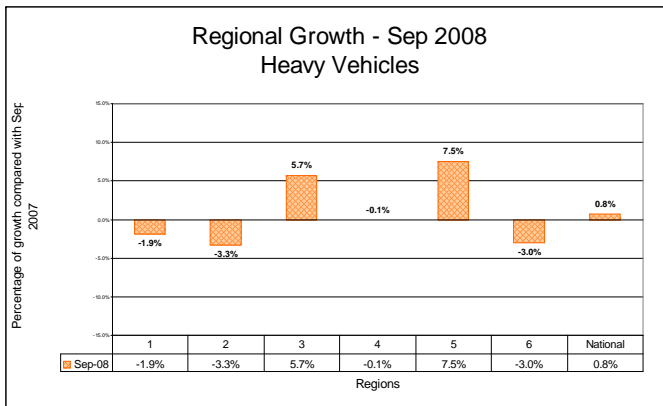
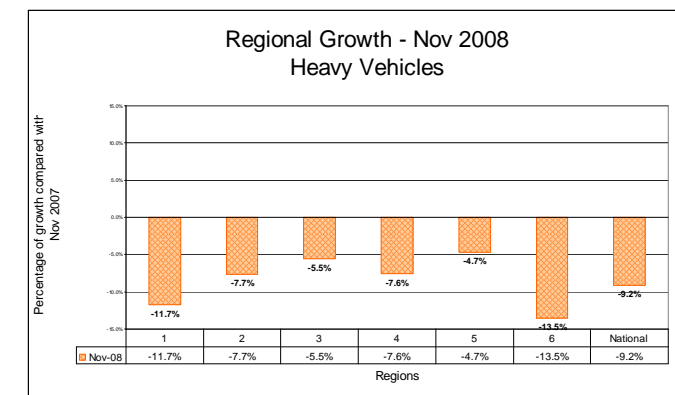
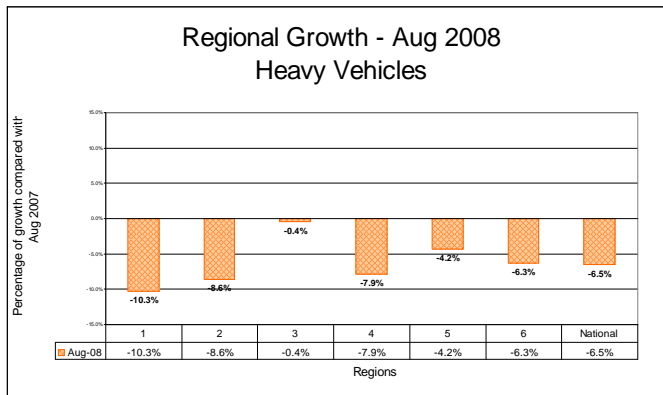
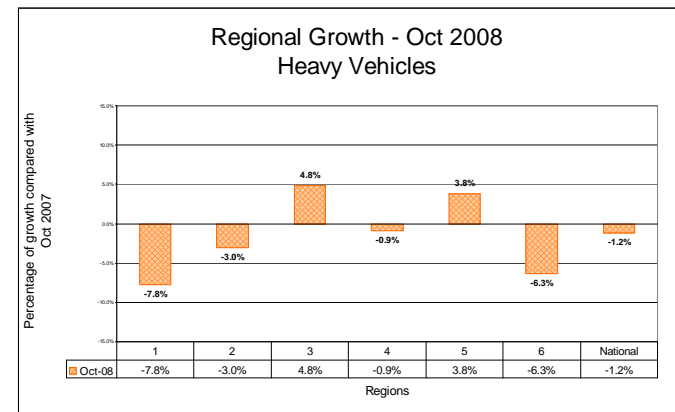
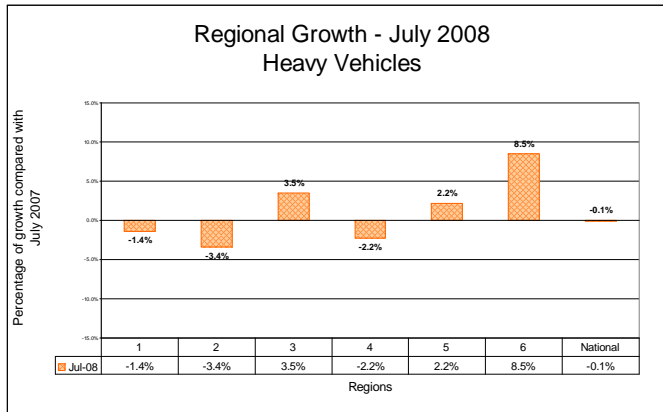


Regional Growth - Jun 2009
Heavy Vehicles

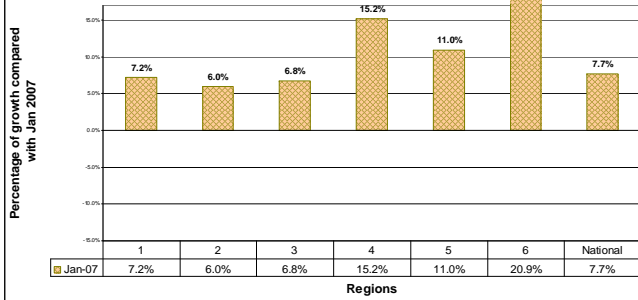




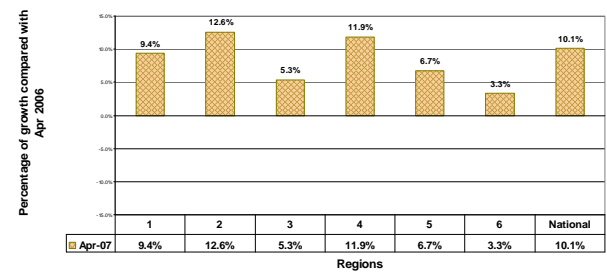




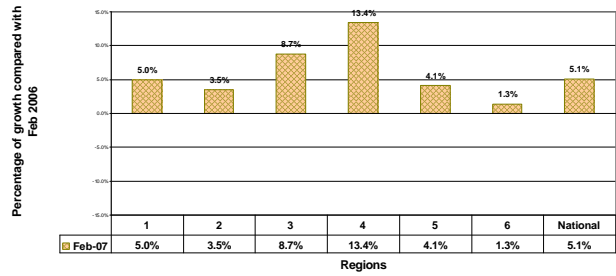
Regional Growth - Jan 2007 Heavy Vehicles



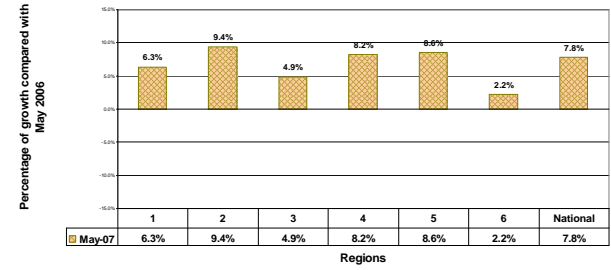
Regional Growth - Apr 2007 Heavy Vehicles



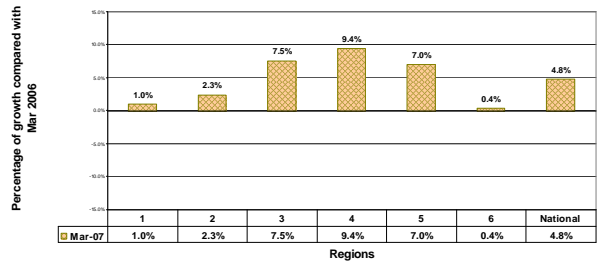
Regional Growth - Feb 2007 Heavy Vehicles



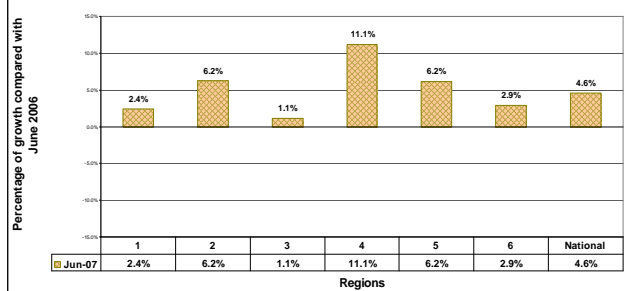
Regional Growth - May 2007 Heavy Vehicles



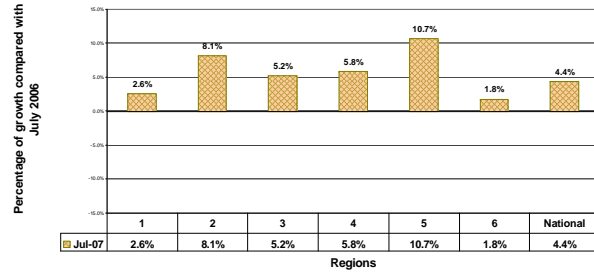
Regional Growth - Mar 2007 Heavy Vehicles



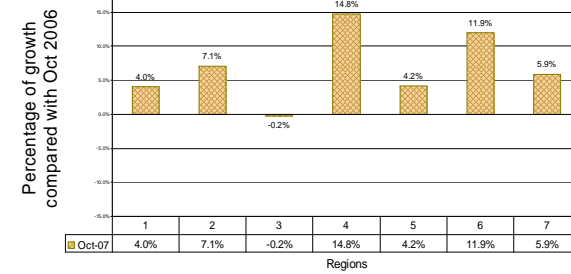
Regional Growth - June 2007 Heavy Vehicles



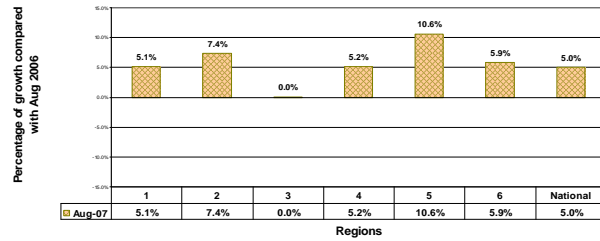
Regional Growth - July 2007 Heavy Vehicles



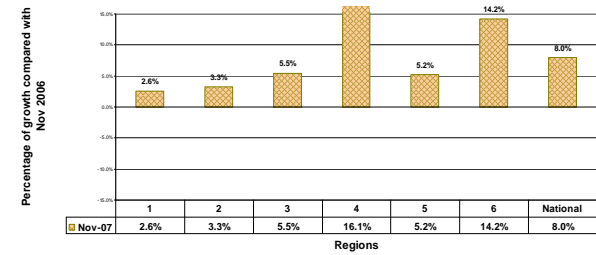
Regional Growth - Oct 2007 Heavy Vehicles



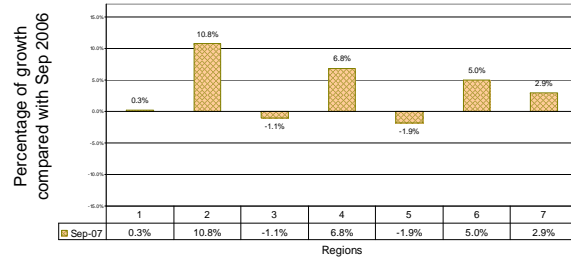
Regional Growth - Aug 2007 Heavy Vehicles



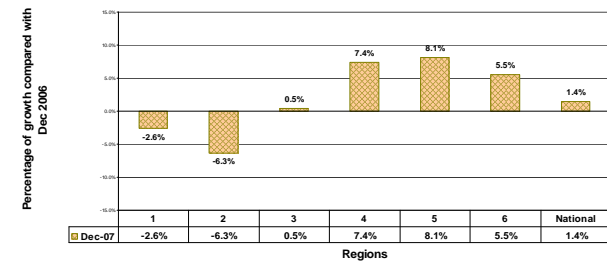
Regional Growth - Nov 2007 Heavy Vehicles



Regional Growth - Sep 2007 Heavy Vehicles



Regional Growth - Dec 2007 Heavy Vehicles



Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10
1	ID:01N00212	KAWAKAWA	5365	6123	6245	7049	7635	6772	6312	6452	5345	5351	5401	5159	5299
1	ID:01000029	Sth of Takou Bay Rd	3235		3540	3927		3994	3787		3085	3081			3149
1	ID:01N00274	Nth of Maungakaramea Rd			13959	14688		14706	14424	14545				12234	12716
1	ID:01200220	East of Brynderwyn Brg 161		2665	2847	2900			3037	2838	2595				
1	ID:01N00130	Nth of Ramseys Brg	1032	1068	1121	1293			1194	1197		998			
1	ID:01N00265	Sth of Selwyn Avenue						22947			22081			21546	
1	ID:01700006	HATFIELDS BEACH	5250	5819	5827	6733	7302	6473	5843	5829	5100	4862	5163	4802	4980
1	ID:01N10459	DRURY - SB	27417			31856	30074	30620	30113	29833	27716	27361	28412	26845	27214
1	ID:01N20459	DRURY - NB	27320			30272	30654	31181	30211	30070	27994	27475	28417	27078	27050
1	ID:01N00339	WELLSFORD	7655	9084	8871	10198	11878	10071	9173	9761	7941	7450	8127	7397	7456
1	ID:01N10440	PANAMA Rd - SB	62168	60956	62539	60908	56292	62318	63014	60094	59742			58579	56151
1	ID:01N20440	PANAMA RD - NB	59628	58768	59448	57442	54884	59272	59335	56952	56372			55162	55062
1	ID:01N10474	BOMBAY - SB	16437	17991		17882		19253	17940	18975	16117	16237	17120	15551	16287
1	ID:01N20474	BOMBAY - NB	16165	17824		18367		19199	18064	18935	16267	16211	16957	15689	15880
1	ID:01N00388	ALPURT	11753	13558	13415	15868	17735	15341	14062	14483	12291	11978	12661	11735	11944
1	ID:01N00424	Auckland Harbour Brg - Centre Span	83580	83103	85173	83000	78228	83216	85638	79222	79507	78904	80092	76796	75033
1	ID:01N10424	Auckland Harbour Brg - Left Clip-on	38389	38020	38714	32275	30569	38195	38319	36956	38376	37096	37143	38957	40071
1	ID:01N20424	Auckland Harbour Brg - Right Clip-on	40429	40738	42678	42414	38134	42551	43334	40179	39868	36393	35581	37511	41253
2	ID:00200002	MAUNGATAWHIRI	11418	13193	12693	14430	17100	14336	13291	14240	11328	11300	12057	10854	11217
2	ID:25A00011	NEEVESVILLE	2567	3346	3101	4145	5385	3854	3272	3694	2387	2401	2484	2260	2338
2	ID:02700011	KAIHERE	3832	4215	4186	4676	4697	4568	4352	4511	3862	3793	4060	3693	3786
2	ID:01N00526	TAUPIRI	19780	20927	20934	21832	21086	21695	20928	21182	19257	19825	20438	19082	19269
2	ID:01N00620	LICHFIELD	8689		9215	9139		9579	9288	9741	8293	8340	8746	8017	8391
2	ID:00300085	TE KUITI	4047	4276	3921	4590	4334	4164	4108	4207	3677	3954	4316	3890	3837
2	ID:03200074	West of Taupo	739	787	847	832	995	835	747	854	591	665	771	651	692
2	ID:01N00580	KARAPIRO	13898	14869	14950	15705	15817	15706	15175		13671	14169	14169	13216	13346
2	ID:00200091	WAIHI	6887	7608	7366	8656	10169				6729	6641	6981	6347	6470
2	ID:01N00729	HALLETTS BAY	5005	5276	5350	5646	7208	5849	5131	5805	4271	4381	5366	4522	4696
2	ID:01N00628	TOKOROA	8113	8640	8625	9227	9191	9007	8664	8797	7634	7703	8119	7545	7803
2	ID:00200141	TE PUNA	14938	15733	16531	17635	16951	17150	16646	16425	15876	15343	15603	14877	15140
2	ID:03010149	TE NGA	16608	17083	17480	17846	16982	17512	17532	17016	16625	16588	16761	16166	16230
2	ID:03020149	East end of Puarenga Brg (Dec)	16565	17079	17489	17545	17222	17578	17542	17015	16716	16644	16825	16277	16357
2	ID:00200204	OHINEPANEA	4398	4895	4880	5469	5601	5067	4944	5117	4555	4344	4558	4230	4361
2	ID:03000188	LAKE ROTOMA	2706	2937	2969	3356	3677	3171	3056	3169	2753	2807	2868	2597	2690
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	5156	4619	4207	4388	4799	4379	4224		3836	3603	3854	3504	3589
2	ID:00500034	TARUKENGA	4928	5375	5155	5623	5894	5463	5271	5731		4898	5183	4557	4632
2	ID:02900034	KAIMAI	8649	9421	9211	10106	10108	9676	9425	10014		8219	8361	7695	7737
2	ID:00500057	WAIPIA	6685	7187	7363	7893	8545	7858	7557	7652	6574	6475	7001	6423	6652
2	ID:00200176	TE PUKE	19818	18917		20129	19392	19596	19846	20172	19572	18109	18401	17771	17882
2	ID:00200242	AWAKERI	8461	8926	9104	9600	9084	8995	9228	9200	8332	8279	8634	8337	8607
3	ID:00200428	ORMOND	2138	2398	2436	2529	2745	2695	2620	2528	2185	2302	2229	2185	2166
3	ID:00200627	TANGOIO	1797	2039	1989	2298	2446	2230	2103	2264	1898	1835	1808	1826	1790
3	ID:00500230	TE POHUE	2463		2808	2650		3337	2923	3142	1824	2382	2510	2237	2334
3	ID:05000010	Nth of Tutaekuri River	20571	20539	22120	22585	20841	22993	23557	22112	21287	21525	20567	20807	20809
3	ID:00300171	TONGAPORUTU Brg	1831	2193	2078	2448	2598	2287	2067	2308	1738	1915	1884	1679	1702
3	ID:00300267	TARIKI	8188	8687	9154	9401	8486	9172	9272	9155	8615	8615	8535	8288	8139
3	ID:00300370	WAITOTARA	3168	3509	3534	3800	3706	3737	3559	3696	3184	3066	3354	3116	3111
3	ID:04500101	OHAWA BEACH Rd	4212	4360	4311	4327	4074	4168	4050	3938	3557	3509	3535	3701	3812
3	ID:01N00930	SANSON	11339	12338	12361	13330	13158	13071	12605	13161	11581	11312	12099	11303	11247
3	ID:01N00988	OHAU	14164	15278	15257	16401	16592	16262	15384	15766	13843	13584	14519	13544	13690
3	ID:00200755	NORSEWOOD	3519	4111	3975	4536	4779	4448	4195	4376	3484	3351	3495	3270	3383

Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10
3	ID:00300489	MANAWATU GORGE	6194	6756	6809	7408	7469	7412	7074	7277	6492	6224	6742		5595
3	ID:00400133	HOROPITO	2168	2202	1748	2013	2145	1981	1759	1957	1418	1845	2393	2178	
3	ID:00400226	UPOKONGARO	1805	2061	2018	2179	2229	2194	2058	2084	1769	1731	1862	1707	1763
3	ID:01N00827	HIHITAHU			4596	4926	5965	5040	4397	5154	3765	3996	4571	3919	
4	ID:01N11068	NGAURANGA - SB	22148	22729	23446	22279	19697		23705	22655	22574	22181	22687	22369	22187
4	ID:00200895	CLAREVILLE	10077	10284	10861	11143	10246	11163	11143	10758	10294	9973	10180	9907	9926
4	ID:00200937	RIMUTAKA	5051	5423	5749	6143	6340	6068	5906	6161	5117	4880	5228	4839	4945
4	ID:01N01036	PUKERUA BAY	22341	23670	24151	24988	24379	25212	24384	24329	22623	22234	23286	22096	23023
4	ID:01N21068	NGAURANGA - NB			23432	22251	18402		23547	22411	22501	21976	22314		21941
4	ID:05800009	Pauatahanui East	13451	13434	14405	13461	12980	14533	14710	14160	13819	13550	13739	13966	13608
4	ID:00210979	NGAURANGA SH2 - SB	21334	21735	22333	21235	18046		22429	21736	21878	21403	21869	21686	21369
4	ID:00220979	NGAURANGA SH2 - NB			22271	21112	16747		22860	21494	21644	21135	21475		21139
4	ID:00600122	STOKE	20062	20761	22123	22645	21947	22527	22332	21331	20576	20161	20014	19981	20028
4	ID:00600232	MURCHISON		1737	1856	2086	2717	2354	2037	2073	1345	1273	1363	1262	1383
4	ID:00600100	HIRA	2884	3169	3374	3699	4092	3953	3718	3475	2882	2821	2763	2788	2843
4	ID:06000040	Riwaka	2804	3345	3844	4263	6311	5212	4261	3835	2869	2543	2467	2481	2603
4	ID:01S00037	Blenheim	3241	3590	3865	4029			3730	4242	3100	3068	3248	3184	3204
5	ID:01S00389	DUNSANDEL	9363	10232	10478	10955	10746	10959	10637	10970	9050	8840			9187
5	ID:01S00505	EVANS St Timaru	19374	20447	21138	22004	20106	20955	20770	20510	19086	19085	19189	18847	19292
5	ID:07300064	Springfield	1551	1689	1634	1782	1986	1951	1518	1779	1258	1281	1702	1568	1227
5	ID:01S00144	KAIKOURA	1993	2470	2683	2837	3662	3195	2686	2826	1908	1849	1974	1858	1977
5	ID:01S00522	ST ANDREWS	5202	5737	5839	6169			6169	6270	5129	5188	5237	4911	5215
5	ID:00700108	LEWIS PASS	973	1183	1190	1375	1842	1430	1251	1373	884	874	947	864	846
5	ID:07409005	QE II Drive East Of Main Nth Rd	19021	18943	19383	19571	17299	19488	19443		18441			18005	
5	ID:01S00285	WAIPARA	6487	7570	7663	8456	9235	8382	7898	8380	6374	6243	6584	6179	6441
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB	18480	19416	19881	20856	19696	20702	20456		18703	18310	18712	18885	19201
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB	17654	18541	19010	19966	18599	19603	19391		17793	17411	17813	18067	18387
5	ID:00600454	CHESTERFIELD	2550	2844	3012	3180	3297	3363	3389	3027	2501	2374	2442	2384	2506
5	ID:00700239	AHAURA	1185	1253	1291	1343	1368	1446	1390	1331	1169	1099	1105	1077	1141
5	ID:00600398	PUNAKAIKI	813	1020	1080	1207	1388	1392	1190	1048	762	674	713	689	727
6	ID:00800336	ALEXANDRA	1952	2126	2054	2339	2808	2373	2157	2439	1821	1833	1839	1881	1878
6	ID:01S10713	BURNSIDE - SB	15074	15551	16185	15886	13921	16199	16270	15587	15363	15699	15640	15456	14354
6	ID:01S20713	BURNSIDE - NB	10331	10623	11025	10763	9589	11196	11206	10828	10868	10774	10798	10572	9751
6	ID:01S50713	BURNSIDE - NB On Ramp	2468	2509	2618	2610	2262	2631	2586	2477	2526	2543	2559	2515	2374
6	ID:01S60713	BURNSIDE - SB Off Ramp	3076	3078	3217	3100	2767	3328	3218	3037	3117	3137	3102	3130	2915
6	ID:01S40713	BURNSIDE - NB Off Ramp	3231	3315	3471	3290	2982	3468	3442	3285	3393	3365	3279	3318	3094
6	ID:01S40714	Burnside - NB Off Ramp	2128	2158	2264	2203	1966	2302	2245	2096	2156	2135	2129	2174	2042
6	ID:01S00765	MILTON	5821			6773	6344				5696	5677	5623	5482	5449
6	ID:06A00001	FRANKTON	16321	16118	16908	17806	18442	18236	17460	17145	14999	15566	17640	17488	16049
6	ID:08800004	RAVENSBOURNE	8314	8484	8750	8472	7792		8978	8364	8608	8434	8327	8468	8493
6	ID:01S00921	INVERCARGILL	11655	11801	12364	11630	9999	12000	12434	11401	11727	11433	11276	11293	10850
6	ID:00601147	WINTON	4413	4675	5004	5109	4529	4845	4801	4580	4520	4436	4365	4381	4236
6	ID:00601082	FIVE RIVERS	1466	1827	2042	2222	2505	2296	2078	2066	1430	1281	1351	1284	1310
6	ID:01S00854	GORE	3577	3894	4101	4133	3928	4354	4095	4033	3690	3716	3685	3659	3626
6	ID:09400141	TE ANAU	807	1114	1419	1452	1590	1520	1479	1209	796	626	652	671	704

Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10
1	ID:01N00212	KAWAKAWA	603	665	750	735	773	743	724	683	586	587	571	589	612
1	ID:01000029	Sth of Takou Bay Rd	261		290	295		305	301		232	233			240
1	ID:01N00274	Nth of Maungakaramea Rd			1509	1635		1592	1650	1654				1289	1316
1	ID:01200220	East of Brynderwyn Brg 161		292	325	285			285	244	223				
1	ID:01N00130	Nth of Ramseys Brg	165	161	163	159			194	167		154			
1	ID:01N00265	Sth of Selwyn Avenue													
1	ID:01700006	HATFIELDS BEACH		249	263	285	283	268	254	238	202	184	187	176	196
1	ID:01N10459	DRURY - SB	2251			2379	2159	2593	2740	2502	2314	2301	2244	2170	2330
1	ID:01N20459	DRURY - NB	2117			2229	2082	2502	2613	2406	2212	2199	2138	2067	2201
1	ID:01N00339	WELLSFORD	837	927	973	996	1138	1086	1046	963	834	816	775	784	820
1	ID:01N10474	BOMBAY - SB	1777	1881		2199		2239	2290	2087	1885	1877	1817	1764	1850
1	ID:01N20474	BOMBAY - NB	1742	1838		2329		2228	2215	2102	1930	1923	1868	1798	1865
1	ID:01N00388	ALPURT	1256	1385	1466	1551	1623	1587	1483	1361	1147	1146	1125	1084	1173
2	ID:00200002	MAUNGATAWHIRI	1501	1535	1689	1637	1712	1820	1896	1901	1562	1770	1964	1481	1502
2	ID:25A00011	NEEVESVILLE	241	305	286	352	388	300	294	318	209	198	205	199	219
2	ID:02700011	KAIHERE	790	785	885	854	792	905	949	839	810	756	743	732	794
2	ID:01N00526	TAUPIRI	1953	2034	2224	2102	1934	2240	2309	2074	1952	1952	1893	1859	1998
2	ID:01N00620	LICHFIELD	1349		1462	1492		1396	1567	1494	1317	1237	1242	1206	1402
2	ID:00300085	TE KUITI	619	685	686	648	618	701	746	680	660	632	597	583	618
2	ID:03200074	West of Taupo	121	126	134	106	115	118	123	122	107	118	123	99	104
2	ID:01N00580	KARAPIRO	1369	1505	1548	1584	1586	1681	1624		1383	1313	1315	1378	1463
2	ID:00200091	WAIHI	804	803	872	859	884				773	756	743	705	727
2	ID:01N00729	HALLETTS BAY	733	707	820	717	800	859	853	808	739	670	688	665	714
2	ID:01N00628	TOKOROA	1269	1335	1482	1361	1241	1393	1577	1360	1271	1174	1163	1237	1371
2	ID:00200141	TE PUNA	1123	1126	1241	1184	1099	1233	1362	1296	1213	1084	1069	1014	1058
2	ID:03010149	TE NGA	962	990	1052	982	966	1075	1087	1000	931	922	905	872	920
2	ID:03020149	East end of Puarenga Brg (Dec)	1011	1023	1095	1021	1017	1140	1151	1076	1020	1022	1006	970	1004
2	ID:00200204	OHINEPANEA	727	751	814	769	725	766	793	773	727	660	683	699	753
2	ID:03000188	LAKE ROTOMA	348	346	372	351	376	387	405	395	348	352	338	322	336
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	600	577	593	617	616	633	645		560	527	515	489	526
2	ID:00500034	TARUKENGA	540	579	613	622	600	643	650	682		536	569	548	590
2	ID:02900034	KAIMAI	1054	1139	1372	1196	1136	1238	1332	1248		1062	1058	1058	1059
2	ID:00500057	WAIPA	775	806	852	768	787	877	906	864	795	735	744	777	815
2	ID:00200176	TE PUKE	1893	1727		1675	1561	1850	2003	1986	1983	1757	1731	1723	1793
2	ID:00200242	AWAKERI	679	723	779	776	763	810	900	786	673	647	671	630	695
3	ID:00200428	ORMOND	190	205	227	217	263	292	327	277	218	242	209	203	209
3	ID:00200627	TANGOIO	306	319	353	353	360	392	422	409	389	346	335	349	326
3	ID:00500230	TE POHUE	450		533	471		551	572	545	388	495	464	440	451
3	ID:05000010	Nth of Tutaeuri River	1215	1171	1390	1486	1380	1542	1802	1596	1426	1361	1208	1201	1221
3	ID:00300171	TONGAPORUTU Brg	346	402	415	362	385	407	404	407	360	335	335	334	333
3	ID:00300267	TARIKI	863	967	1057	978	978	1043	1073	1002	924	825	818	848	899
3	ID:00300370	WAITOTARA	452	554	607	538	532	563	547	613	511	442	430	505	511
3	ID:04500101	OHAWA BEACH Rd	501	553	563	516	520	511	479	392	294	262	293	407	530
3	ID:01N00930	SANSON	1289	1423	1578	1518	1441	1557	1579	1576	1447	1383	1361	1356	1418
3	ID:01N00988	OHAU	1386	1444	1565	1499	1428	1605	1628	1548	1457	1402	1402	1351	1417
3	ID:00200755	NORSEWOOD	520	571	627	594	610	653	696	674	549	516	474	484	523
3	ID:00300489	MANAWATU GORGE	696	759	843	799	834	886	895	841	757	706	649		654

Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10
3	ID:00400133	HOROPITO	263	307	309	309	288	322	338	320	272	323	279	270	
3	ID:00400226	UPOKONGARO	146	173	188	168	173	200	195	170	142	133	141	131	142
3	ID:01N00827	HIHITAH			888	792	809	905	892	934	858	845	827	792	
4	ID:01N11068	NGAURANGA - SB	776	770	799	764	710		821	650	557	564	571	544	605
4	ID:00200895	CLAREVILLE	569	551	617	570	519	626	640	608	516	464	472	475	527
4	ID:00200937	RIMUTAKA	284	309	353	330	324	345	361	353	303	271	274	278	279
4	ID:01N01036	PUKERUA BAY	1485	1570	1683	1568	1399	1674	1796	1666	1609	1605	1588	1534	1732
4	ID:01N21068	NGAURANGA - NB			760	738	641		740	700	676	670	681		718
4	ID:05800009	Pauatahanui East	411	385	462	704	733	810	814	572	522	499	517	531	519
4	ID:00210979	NGAURANGA SH2 - SB	721	727	767	724	646		773	694	665	699	684	679	667
4	ID:00220979	NGAURANGA SH2 - NB			732	697	559		781	714	704	723	709		716
4	ID:00600122	STOKE	1151	1216	1281	1176	1198	1372	1504	1366	1273	1205	1172	1123	1150
4	ID:00600232	MURCHISON		263	295	283	372	340	323	298	240	208	208	212	292
4	ID:00600100	HIRA	458	436	477	471	472	554	556	519	448	428	402	407	456
4	ID:06000040	Riwaka	190	216	263	265	364	341	317	276	208	161	138	155	168
4	ID:01S00037	Blenheim	488	528	566	606			608	754	500	455	461	463	476
5	ID:01S00389	DUNSANDEL	1331	1453	1531	1498	1442	1595	1604	1513	1277	1103			1315
5	ID:01S00505	EVANS St Timaru	1382	1503	1592	1498	1379	1566	1656	1462	1313	1157	1151	1255	1370
5	ID:07300064	Springfield	178	222	211	213	216	252	205	213	172	153	153	174	149
5	ID:01S00144	KAIKOURA	415	455	499	455	520	539	497	527	436	409	414	411	419
5	ID:01S00522	ST ANDREWS	840	920	948	931			1035	928	769	686	662	712	840
5	ID:00700108	LEWIS PASS	163	182	196	195	273	220	211	200	160	144	136	145	190
5	ID:07409005	QE II Drive East Of Main Nth Rd	552	551	567	521	475	583	578		477			459	
5	ID:01S00285	WAI PARA	958	1004	1097	1100	1118	1224	1255	1196	1003	842	834	852	1001
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB	1043	1098	1146	1115	1109	1182	1157		962	982	983	1018	1201
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB	966	1024	1073	1084	1010	1095	1063		882	884	892	944	1133
5	ID:00600454	CHESTERFIELD	305	368	383	354	346	364	363	312	250	198	202	234	308
5	ID:00700239	AHAURA	180	193	207	195	195	229	203	187	164	152	144	149	182
5	ID:00600398	PUNAKAIKI	95	119	132	124	131	140	128	106	76	58	62	75	94
6	ID:00800336	ALEXANDRA	174	191	186	211	269	231	213	214	175	159	151	170	167
6	ID:01S10713	BURNSIDE - SB	772	811	910	891	759	922	926	870	737	1056			1054
6	ID:01S20713	BURNSIDE - NB	670	698	735	699	639	767	785	750	726	956			999
6	ID:01S50713	BURNSIDE - NB On Ramp	105	105	113	107	94	117	117	106	108	117	115	112	111
6	ID:01S60713	BURNSIDE - SB Off Ramp	194	197	203	196	177	214	211	192	196	207	204	208	197
6	ID:01S40713	BURNSIDE - NB Off Ramp	182	189	199	187	192	211	209	195	193	190	188	186	184
6	ID:01S40714	Burnside - NB Off Ramp	68	68	71	78	68	86	75	69	73	78	76	80	70
6	ID:01S00765	MILTON	696			821	709				725	645	587	596	683
6	ID:06A00001	FRANKTON	937	902	979	997	1062	1077	1074	996	766	744	904	899	855
6	ID:08800004	RAVENSBORNE	422	454	474	453	464		528	467	453	438	420	422	413
6	ID:01S00921	INVERCARGILL	409	407	427	404	340	438	448	398	380	353	338	348	351
6	ID:00601147	WINTON	453	498	527	503	483	535	554	465	414	377	371	459	440
6	ID:00601082	FIVE RIVERS	163	194	238	241	260	263	258	219	167	127	133	137	141
6	ID:01S00854	GORE	450	507	562	539	496	583	565	519	444	353	344	393	473
6	ID:09400141	TE ANAU	99	141	177	159	174	171	179	144	98	67	68	76	93