



## Traffic Volumes Monthly Report

### May 2010

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Approved for issue by:

#### Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	9/6/2010	First draft	Gerald Wen	Philip Blagdon	

# Overview

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**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 May 2010, compared with May 2009, the monthly average daily traffic (MADT) for all vehicles reduced by 2.4 percent; while the MADT for heavy vehicles had a minimal increase of 0.4 percent.

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**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	

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# Technical Notes

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**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.

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**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.

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**Sample coverage**

There are 92 telemetry<sup>1</sup> 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.

<b>NZ Transport Agency Region</b>	<b>Number of Telemetry Sites</b>
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	11
Otago and Southland	13

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**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.

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<sup>1</sup> Telemetry sites are continuously monitored 24/7.

# Key Results

The annual national State Highway Traffic Index <sup>1</sup> 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.

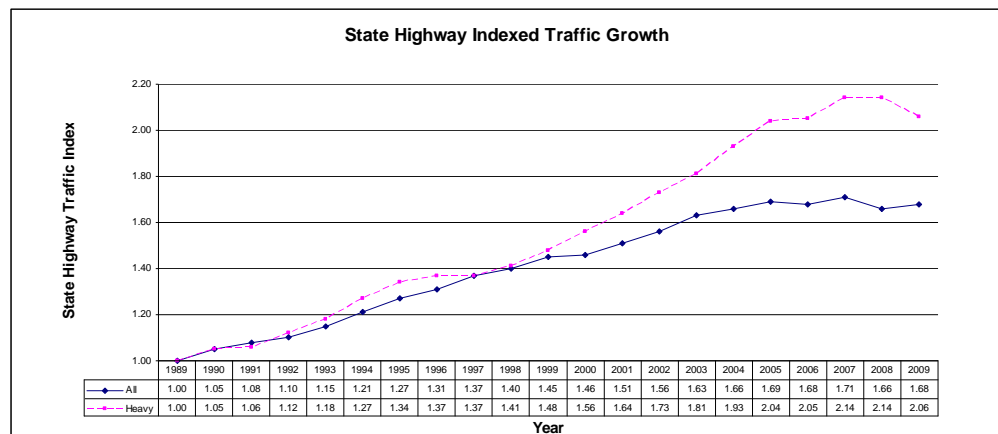
## 2009 All Vehicles

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)



<sup>1</sup> Weighted average traffic across the National telemetry sites

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**Results:  
Monthly  
traffic at key  
sites**

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

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

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) May-09	MADT (All Vehicles) May-10	% Change
Auckland harbour bridge (SH1)	Auckland	158810	157751	-1%
Taupiri (SH1)	Hamilton	13839	13671	-1%
Ngauranga Interchange (SH 1 and SH 2)	Wellington	87130	88597	2%
DUNSANDEL (Best Alternative)	Christchurch	9150	9050	-1%
Burnside	Dunedin	26301	26231	0%

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

It is noted that the sites representing Hamilton and Christchurch are not within the city boundary. More suitable sites have 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 above delivery at a single site is +/- 5%, so the above figures may be within this range.

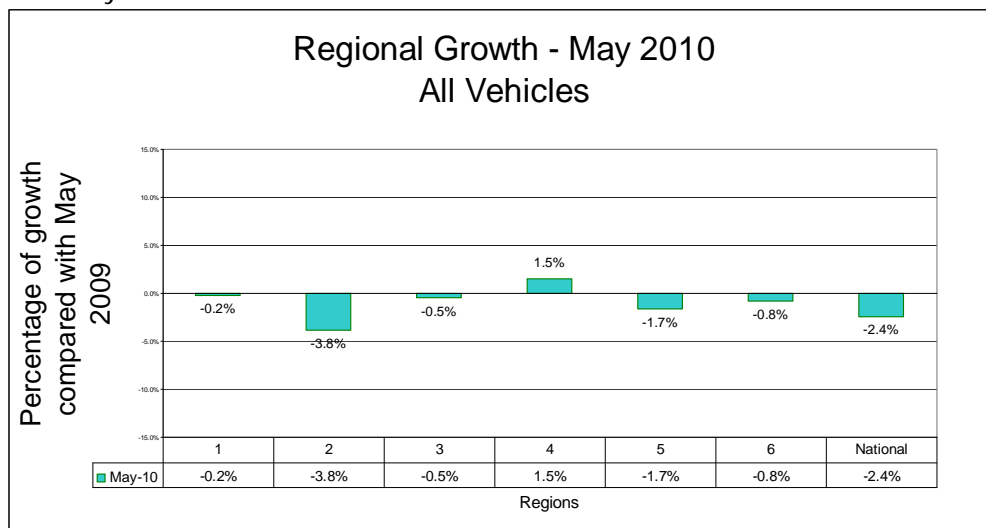
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# Results: All Vehicles

## 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 0.2% and 3.8%, except the region 4 which showed an increase of 1.5%<sup>1</sup>. Nationally, the MADT in May 2010 for all vehicles had a decrease of 2.4<sup>2</sup> percent, compared with May 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.

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

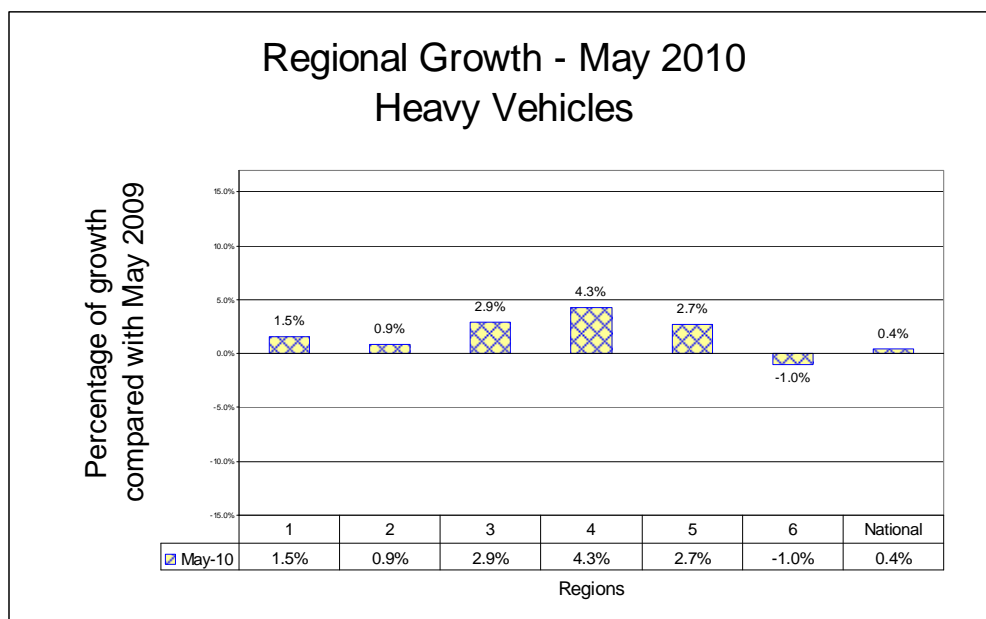
<sup>2</sup> National MADT Growth – Average growth of the entire telemetry sites (not weighted).

# Results: Heavy Vehicles

## Regions

Comparisons across the NZ Transport Agency regions have also been carried out, focusing on heavy vehicles<sup>1</sup>.

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 most regions had an increase of between 0.9% and 4.3%<sup>2</sup>, except the region 6 which showed a slight decrease. Nationally, the MADT in May 2010 for heavy vehicles has increased by 0.4%<sup>3</sup>, compared with May 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.

<sup>1</sup> Heavy vehicles are those with a gross vehicle mass exceeding 3.5 tonnes.

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

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



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## Appendices

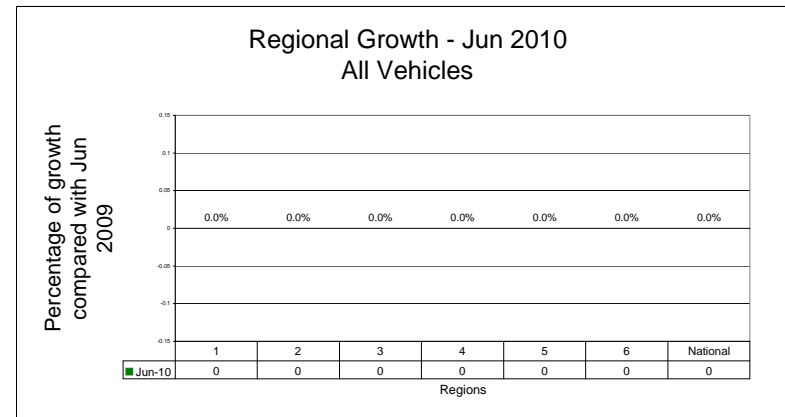
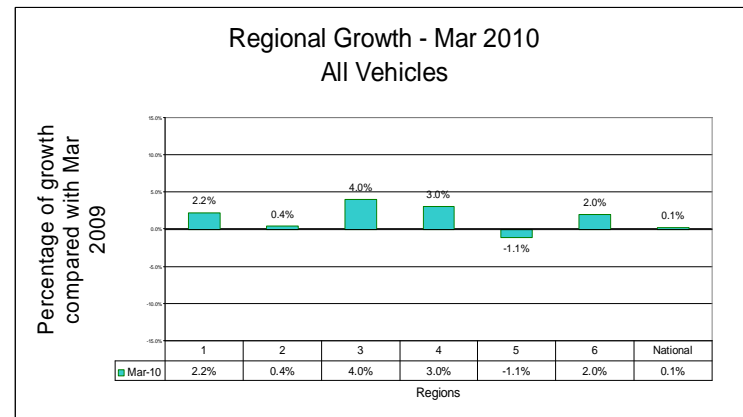
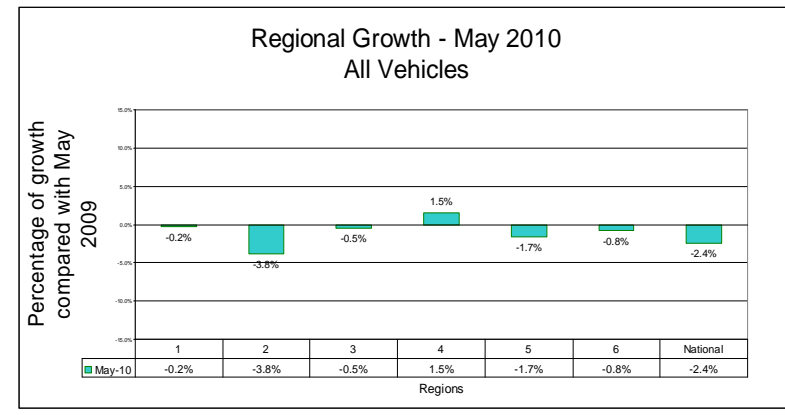
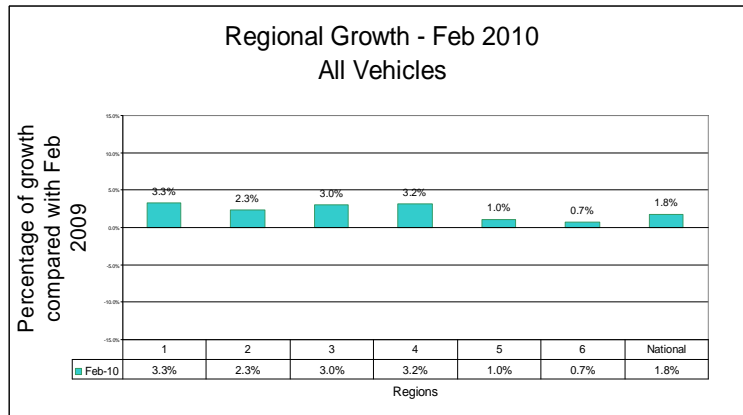
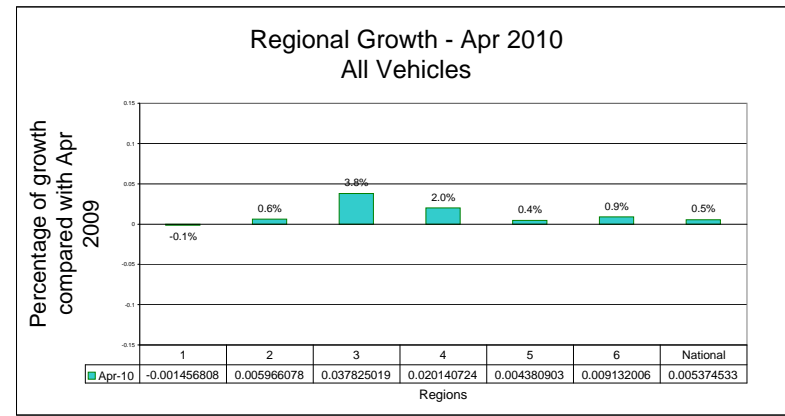
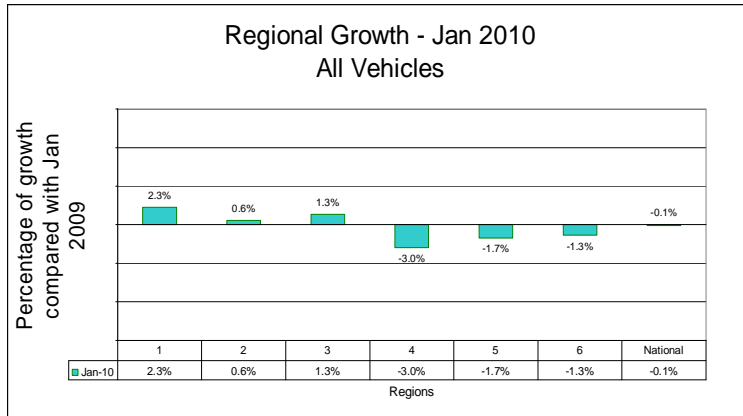
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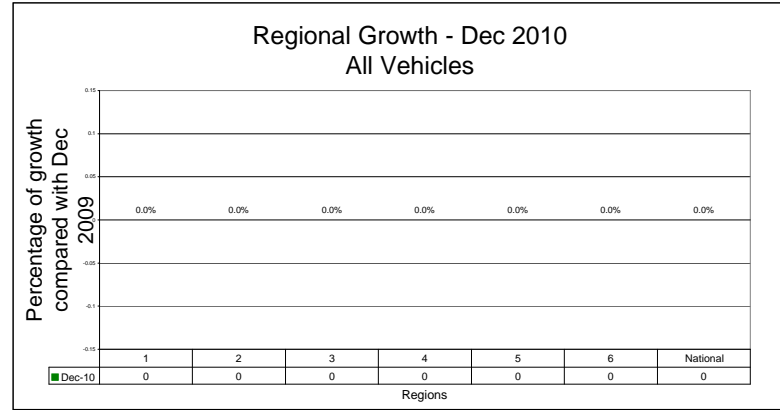
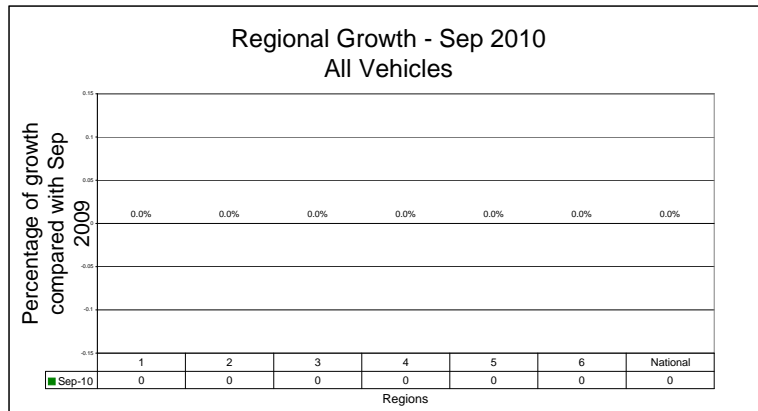
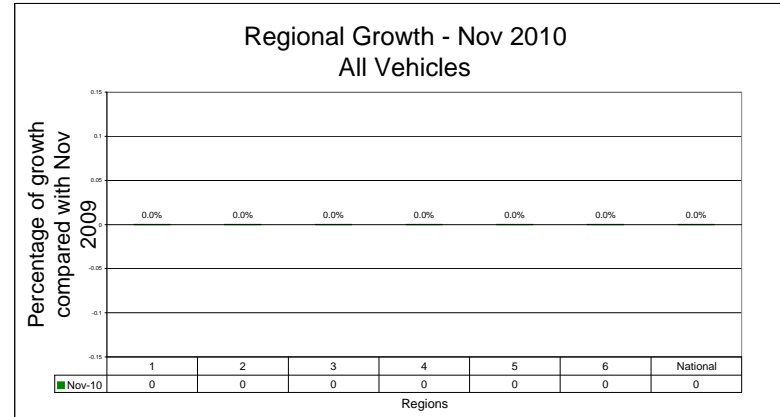
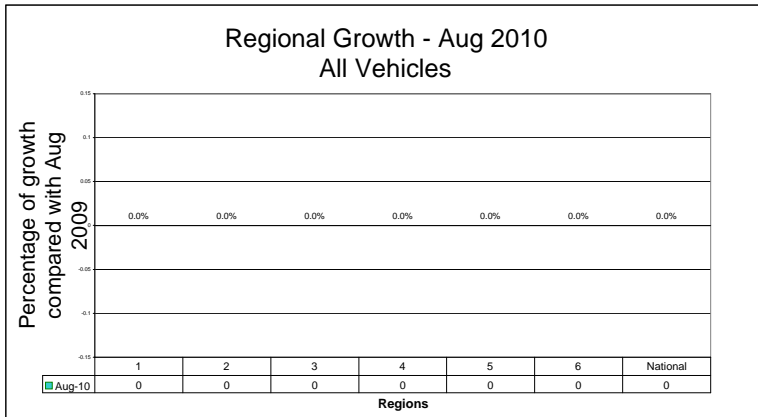
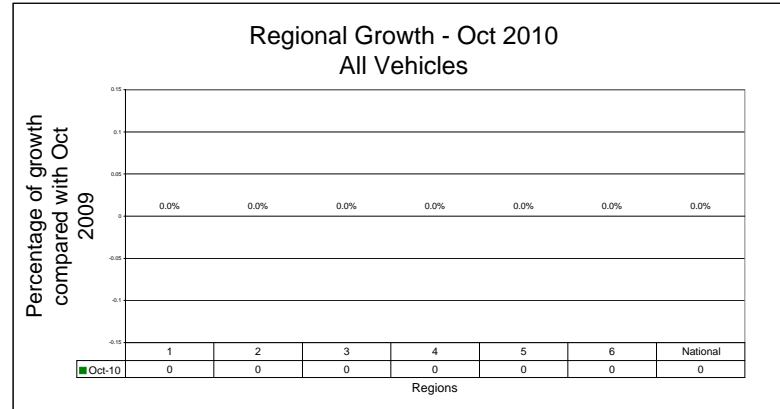
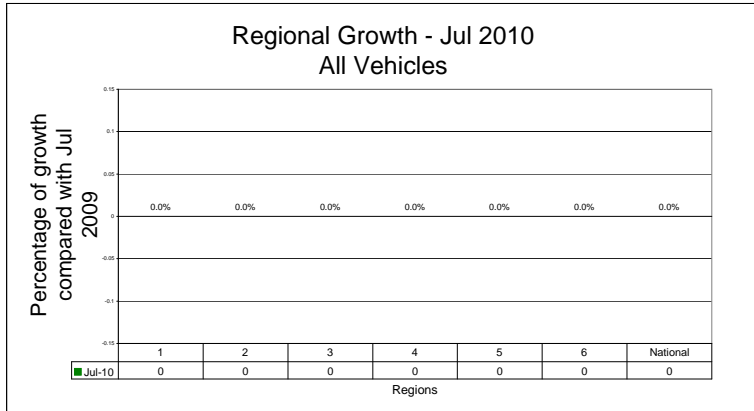
Current and Previous Years Growth Graphs: 2010, 2009, 2008 and 2007

- All Vehicles
- Heavy Vehicles

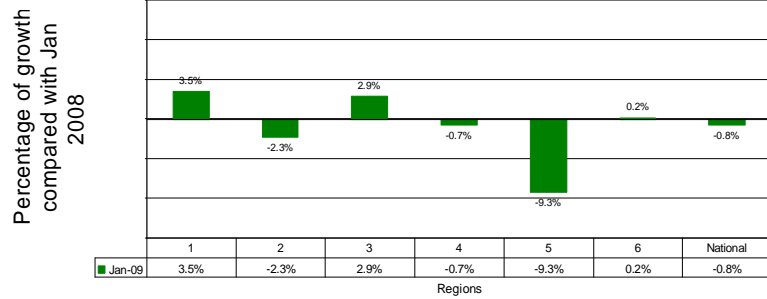
Telemetry Site MADT's for the past twelve months

- All Vehicles
- Heavy Vehicles

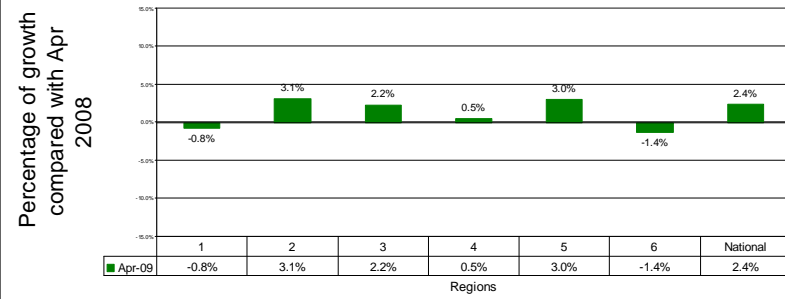




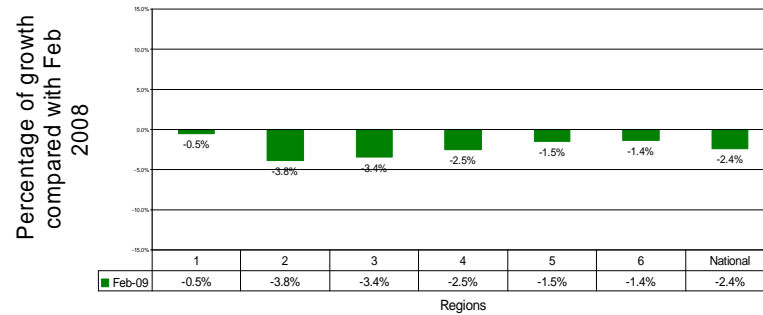
Regional Growth - Jan 2009  
All Vehicles



Regional Growth - Apr 2009  
All Vehicles



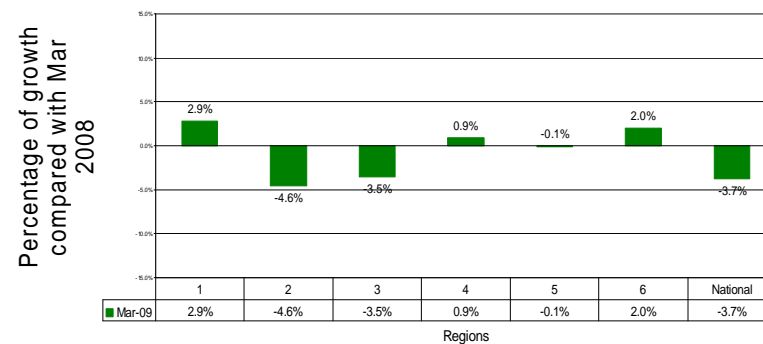
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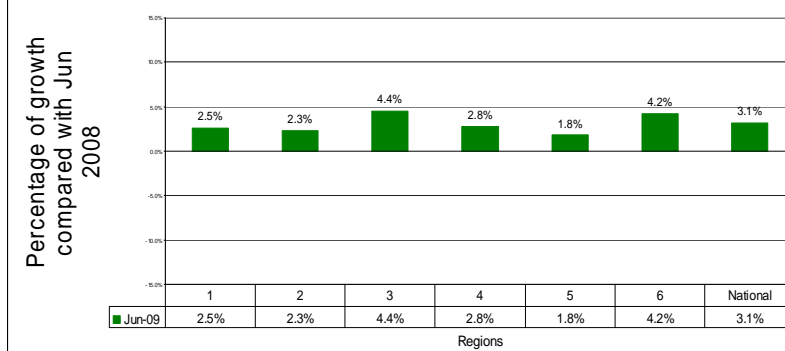
Regional Growth - May 2009  
All Vehicles



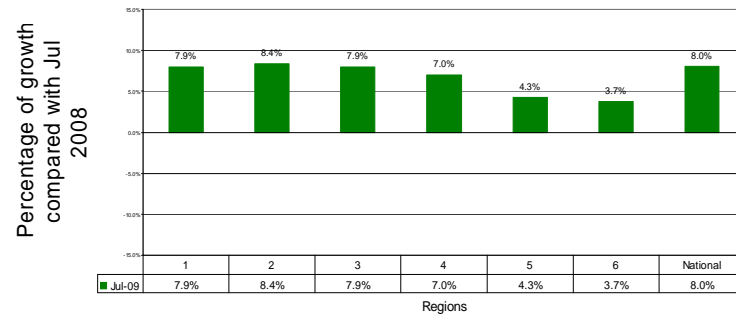
Regional Growth - Mar 2009  
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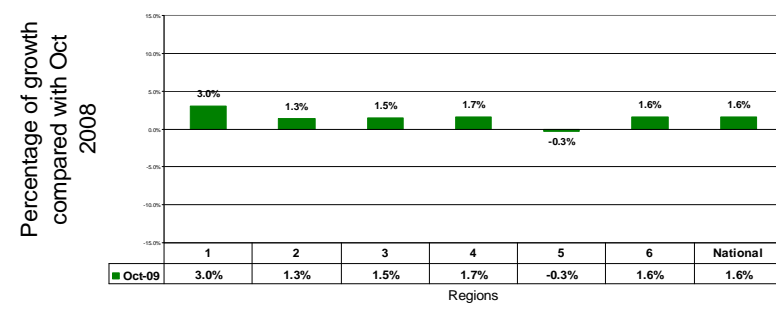
Regional Growth - Jun 2009  
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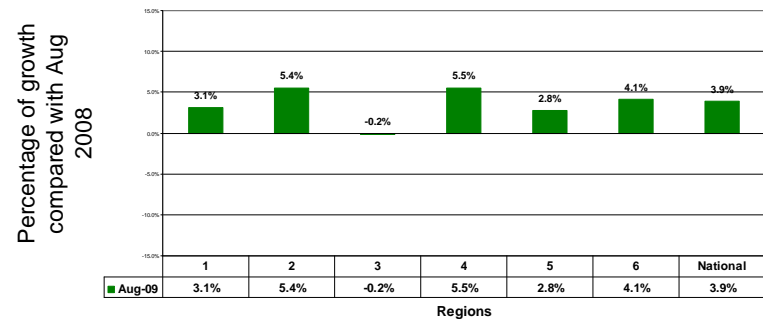
Regional Growth - Jul 2009  
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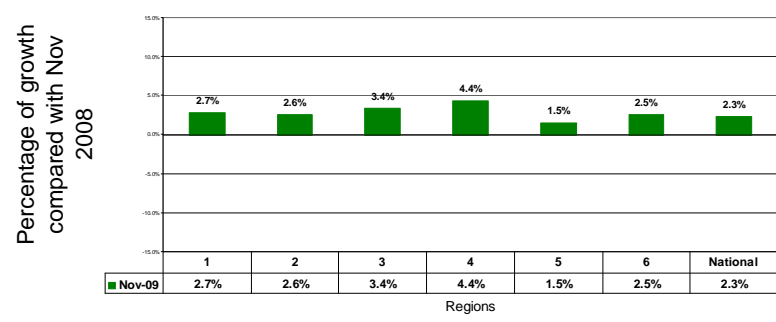
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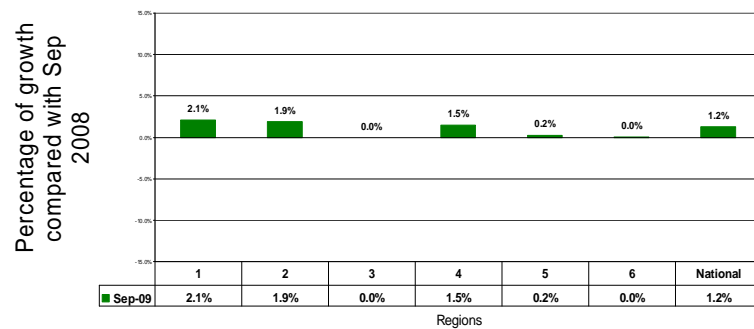
Regional Growth - Aug 2009  
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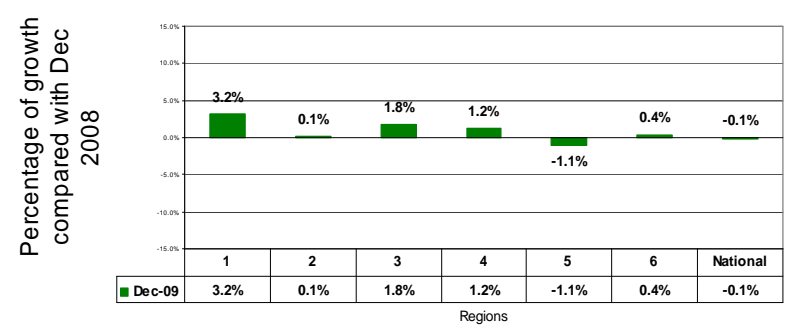
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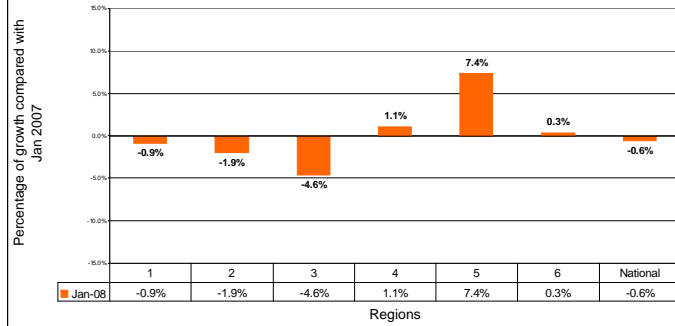
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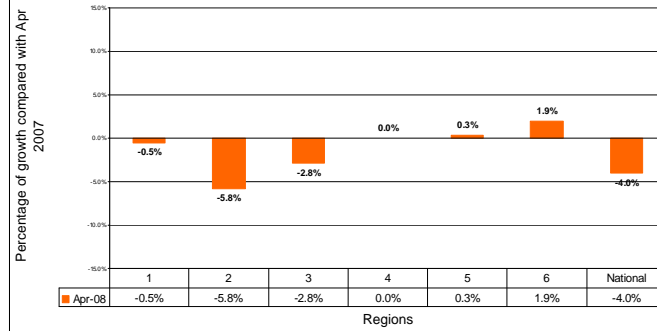
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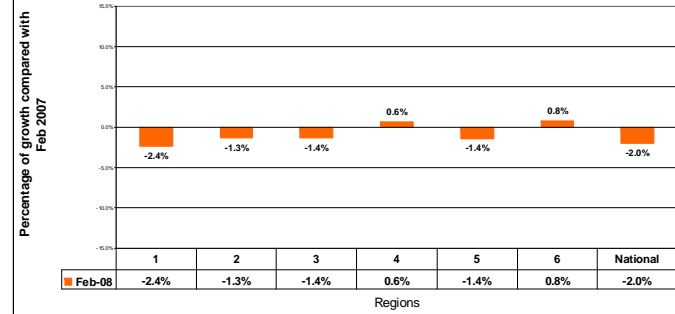
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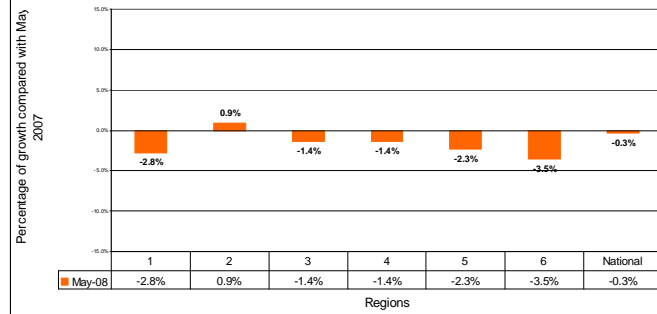
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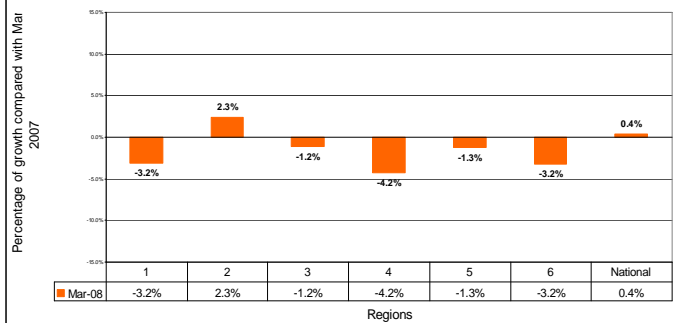
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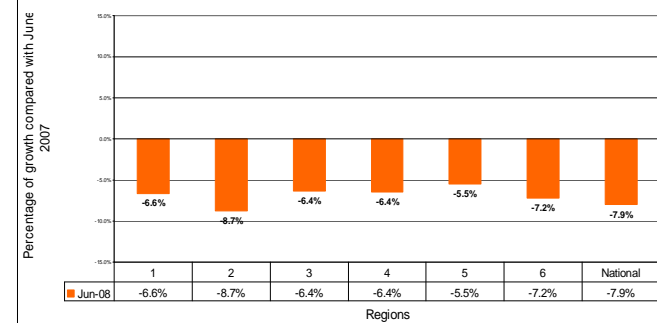
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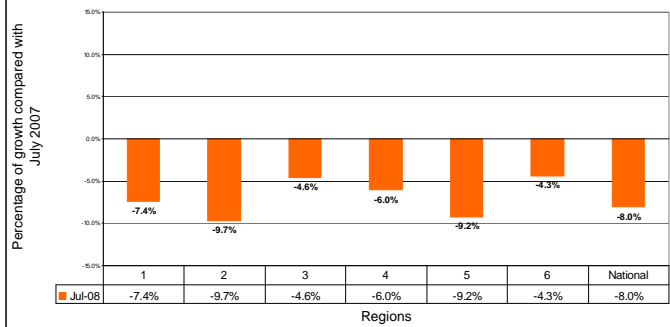
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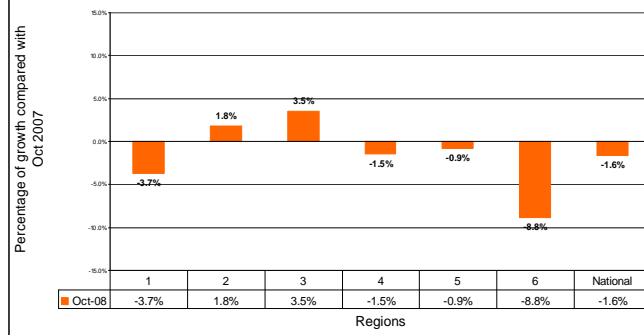
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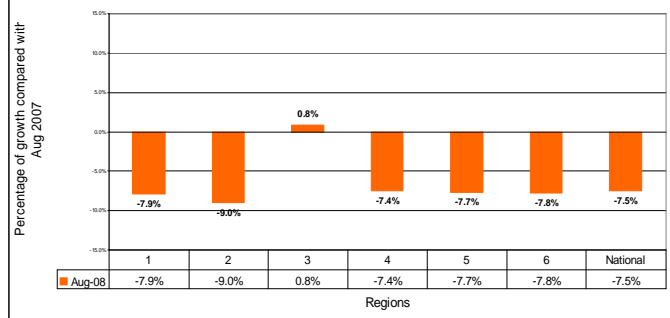
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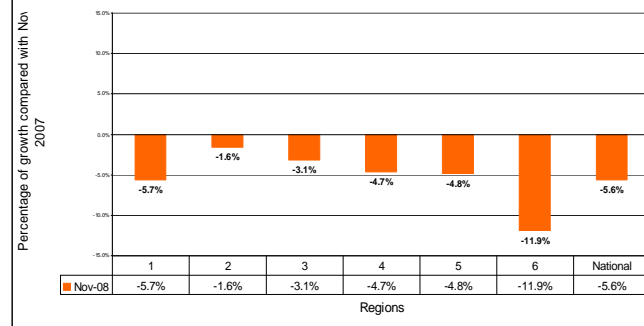
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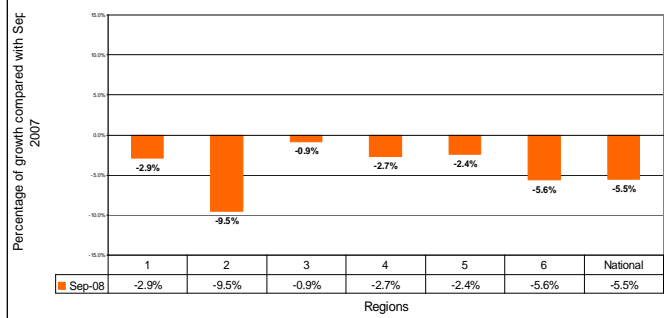
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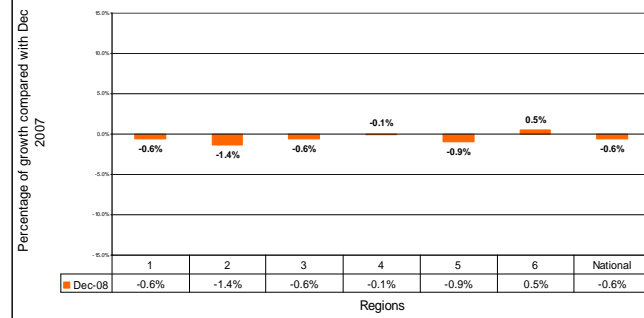
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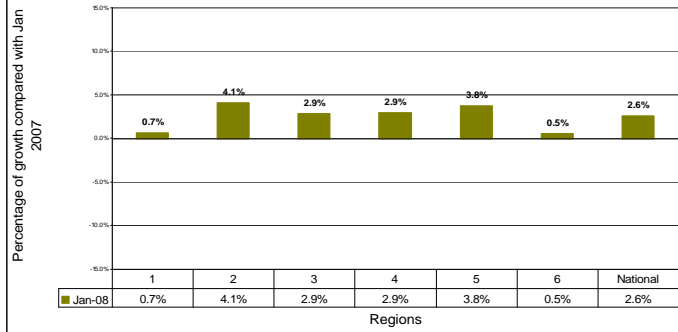
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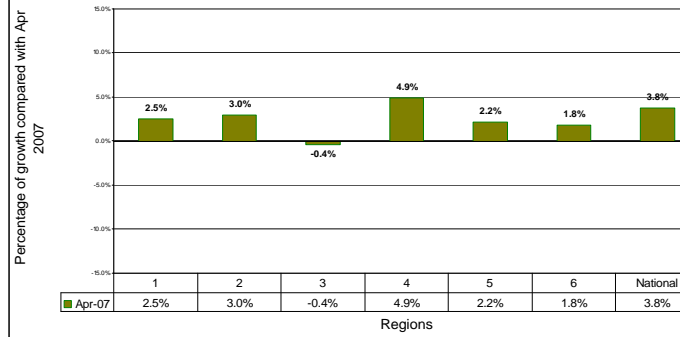
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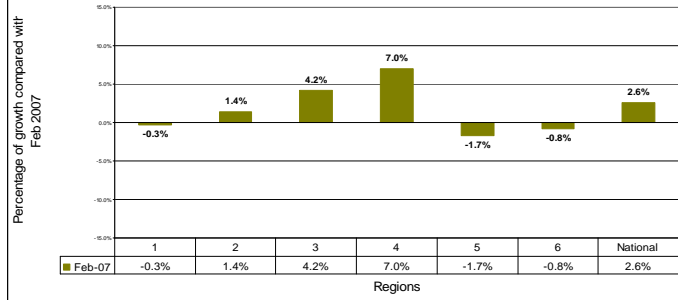
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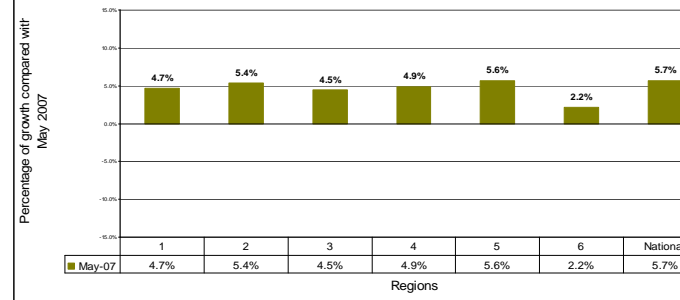
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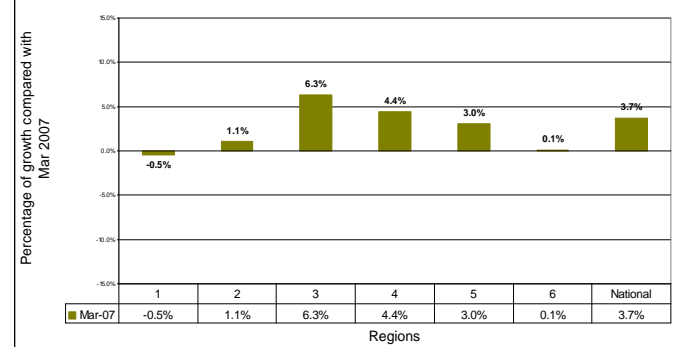
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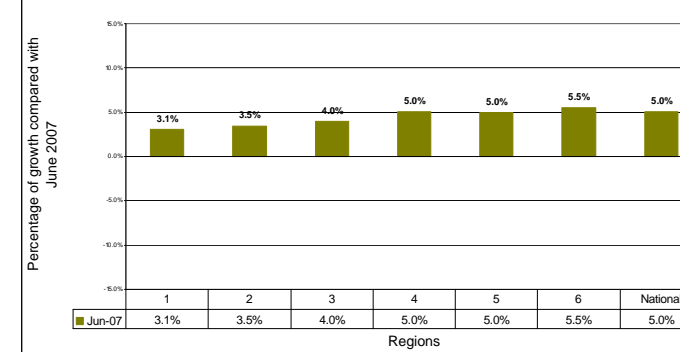
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Regional Growth - Mar 2007  
All Vehicles

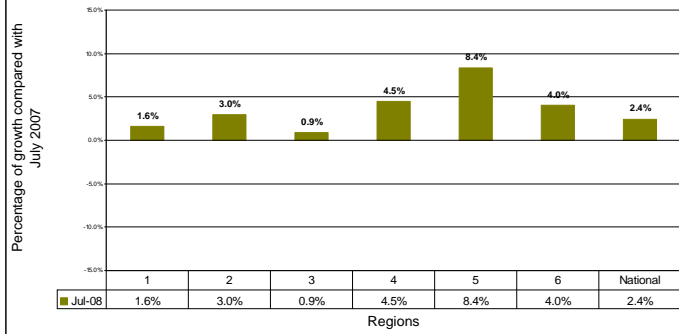


Regional Growth - June 2007  
All Vehicles

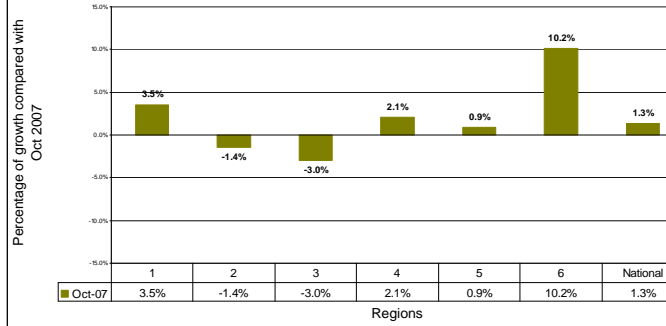




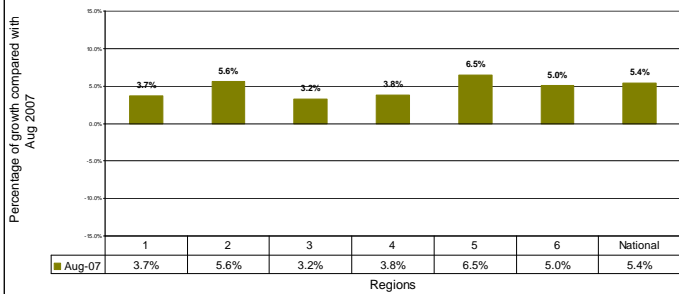
Regional Growth - July 2007  
All Vehicles



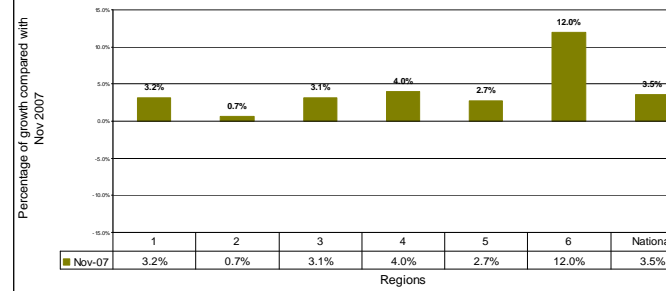
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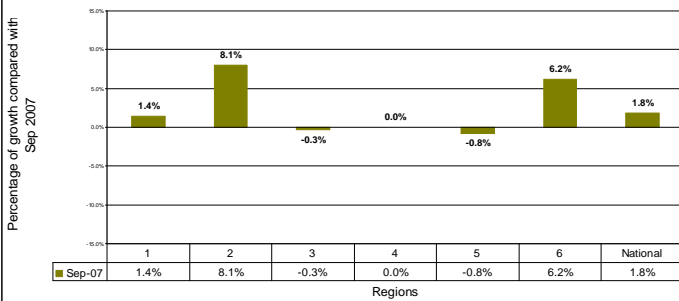
Regional Growth - Aug 2007  
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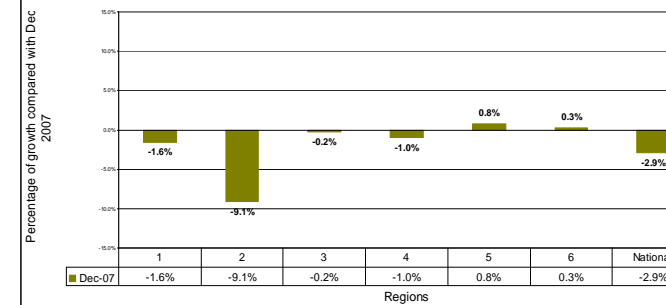
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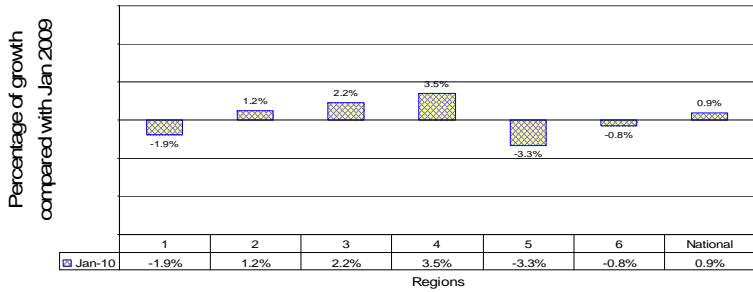
Regional Growth - Sep 2007  
All Vehicles



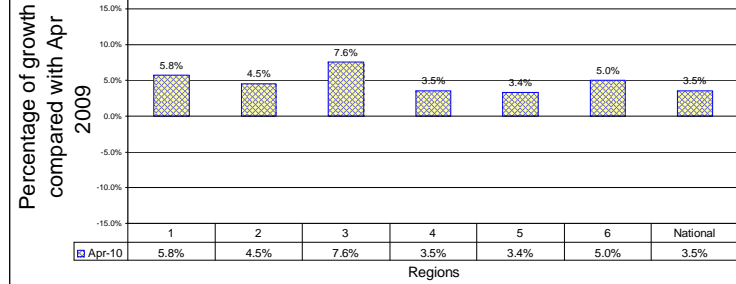
Regional Growth - Dec 2007  
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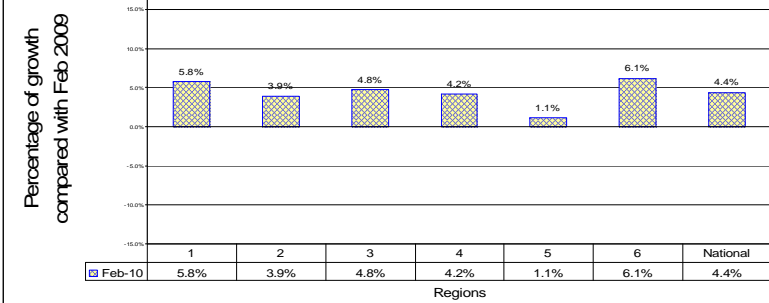
Regional Growth - Jan 2010  
Heavy Vehicles



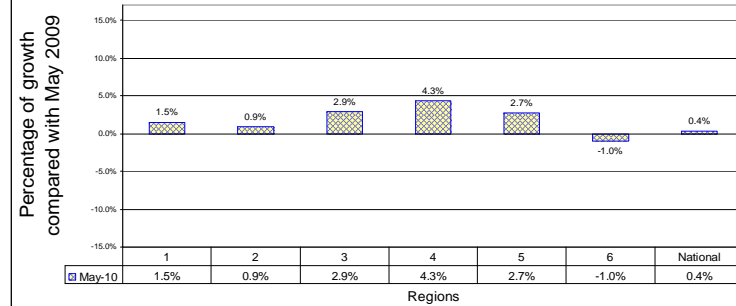
Regional Growth - Apr 2010  
Heavy Vehicles



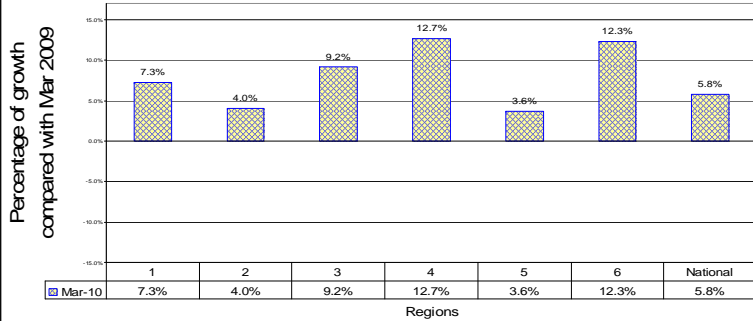
Regional Growth - Feb 2010  
Heavy Vehicles



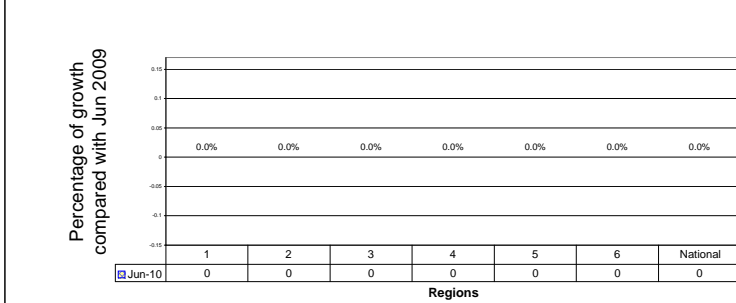
Regional Growth - May 2010  
Heavy Vehicles



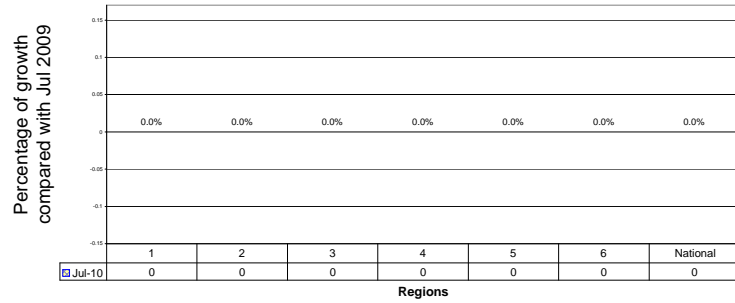
Regional Growth - Mar 2010  
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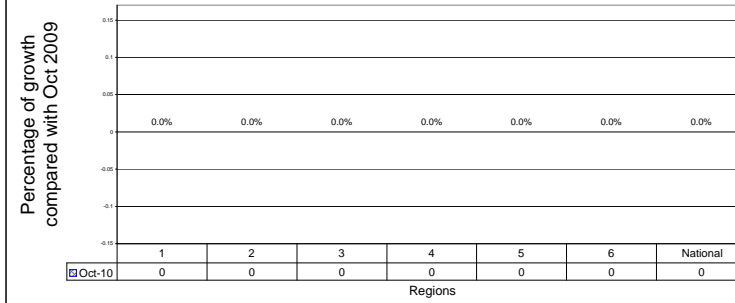
Regional Growth - Jun 2010  
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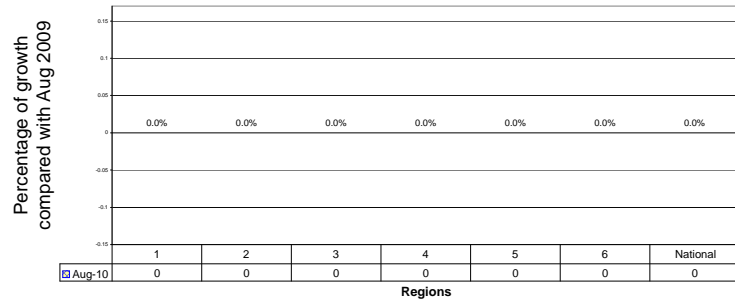
Regional Growth - Jul 2010  
Heavy Vehicles



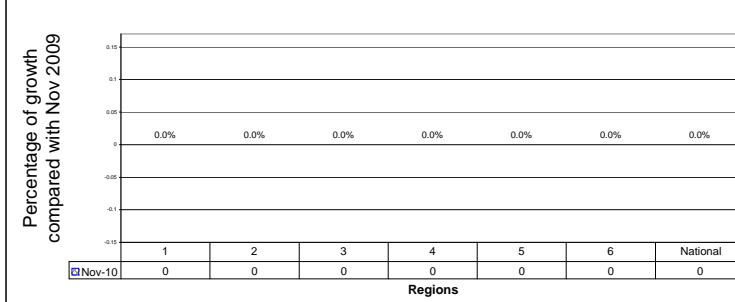
Regional Growth - Oct 2010  
Heavy Vehicles



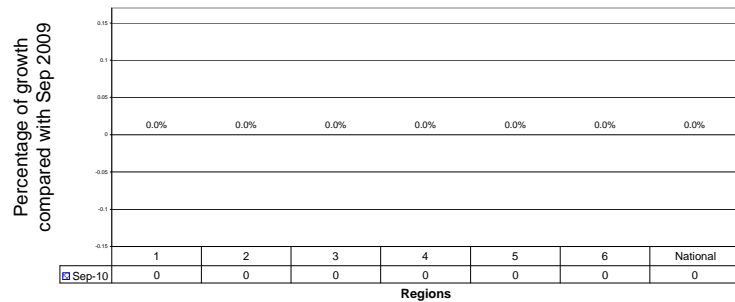
Regional Growth - Aug 2010  
Heavy Vehicles



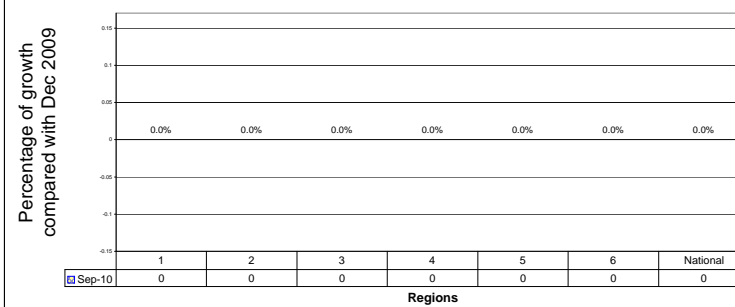
Regional Growth - Nov 2010  
Heavy Vehicles



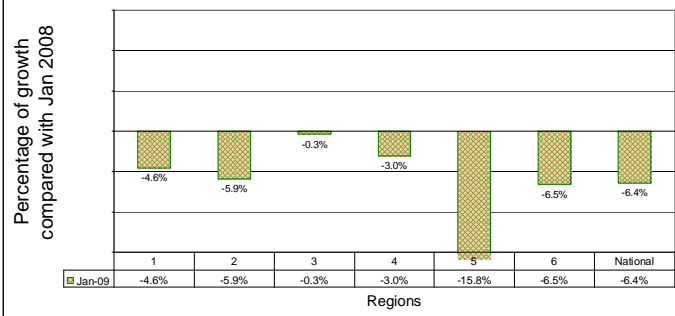
Regional Growth - Sep 2010  
Heavy Vehicles



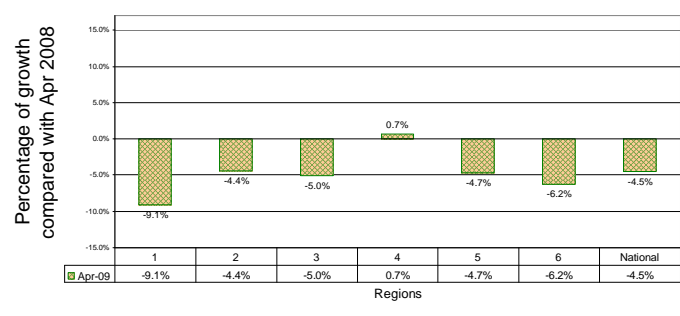
Regional Growth - Dec 2010  
Heavy Vehicles



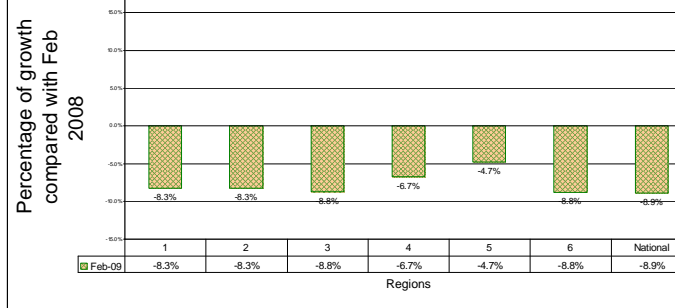
Regional Growth - Jan 2009  
Heavy Vehicles



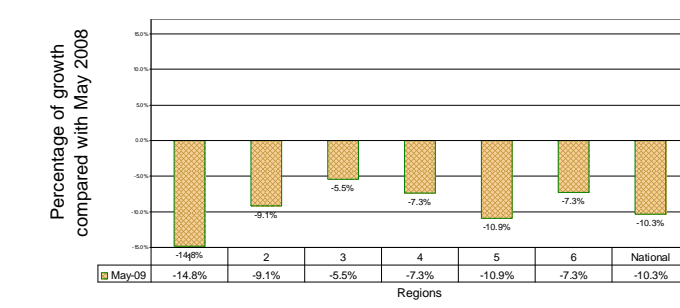
Regional Growth - Apr 2009  
Heavy Vehicles



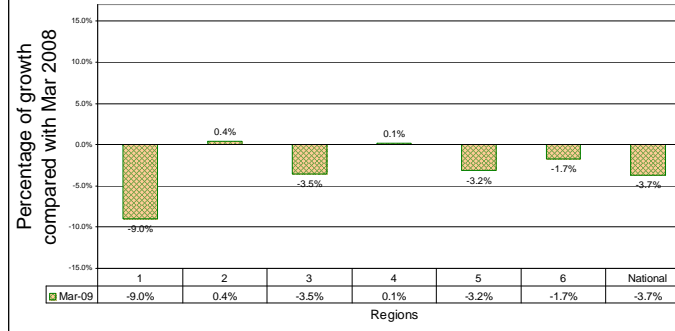
Regional Growth - Feb 2009  
Heavy Vehicles



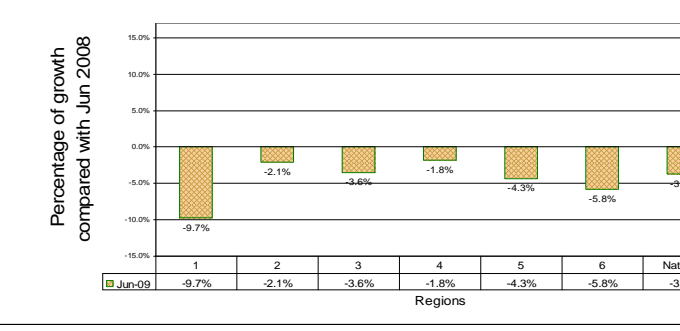
Regional Growth - May 2009  
Heavy Vehicles

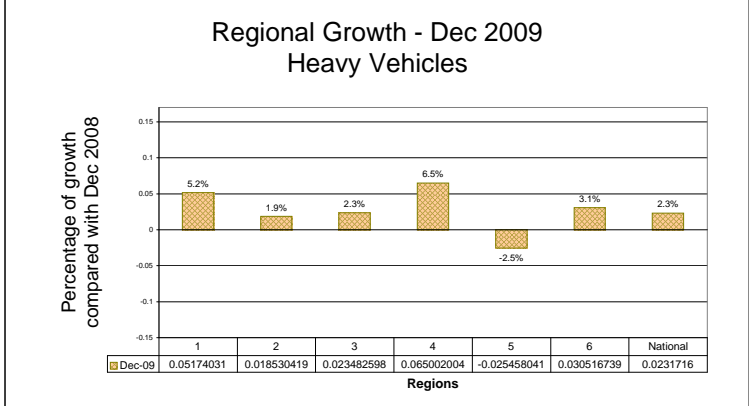
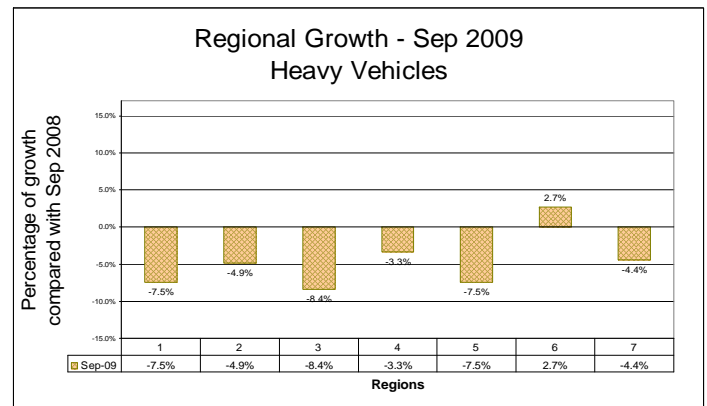
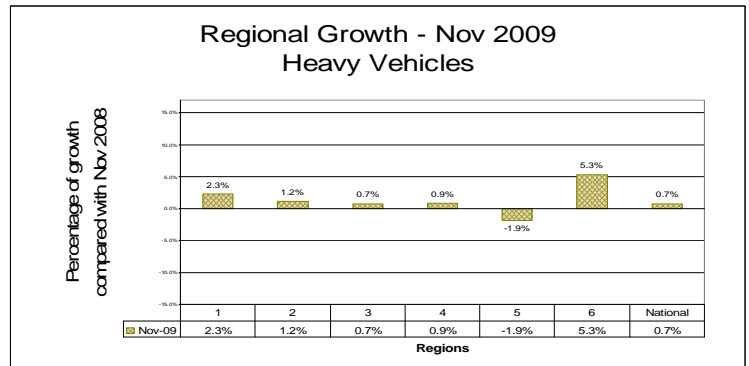
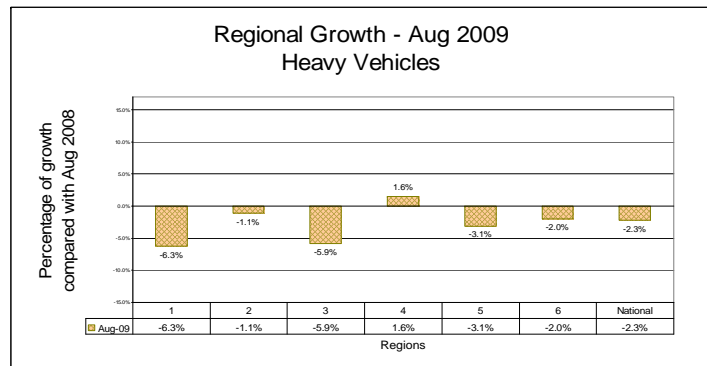
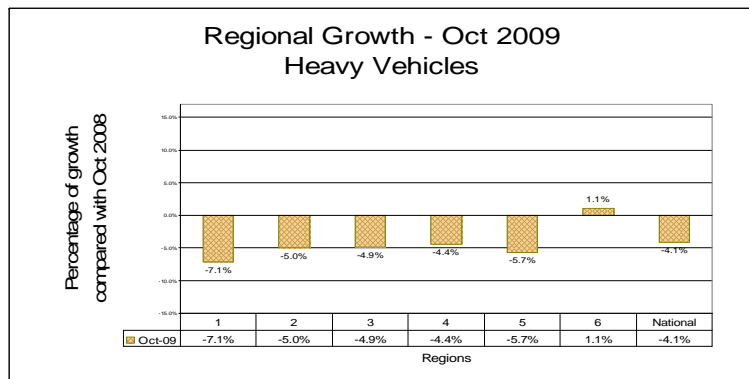
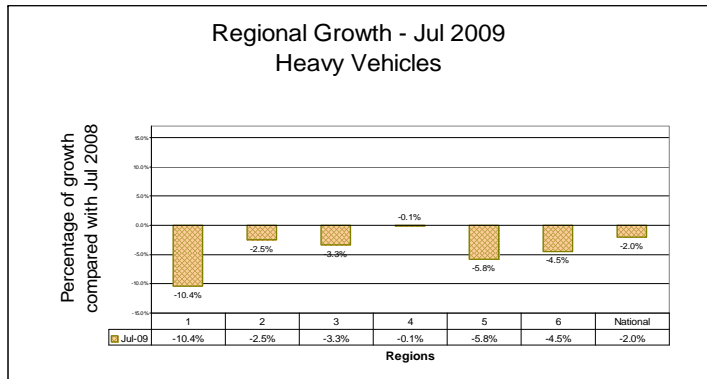


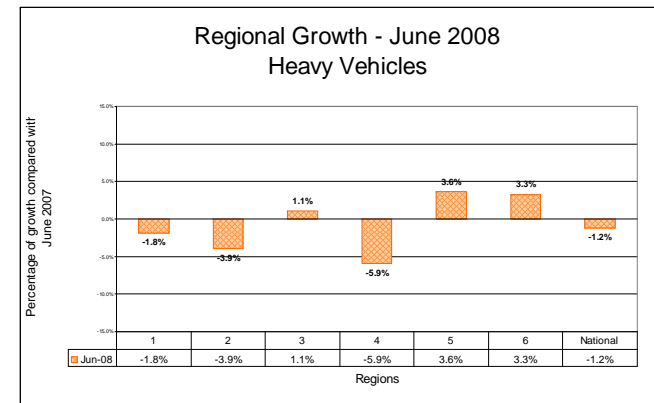
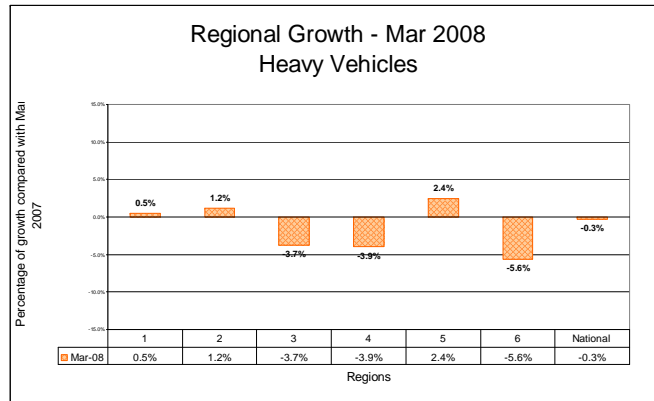
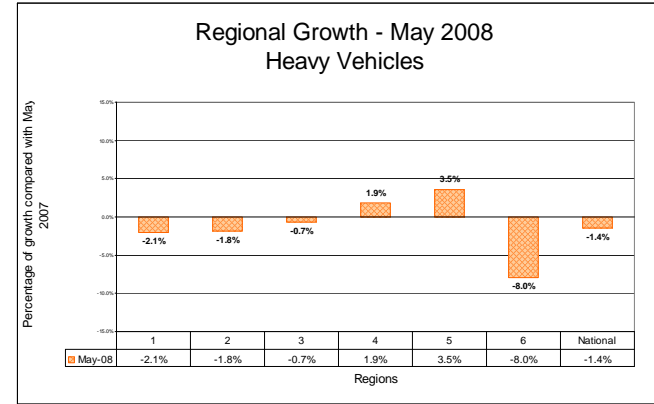
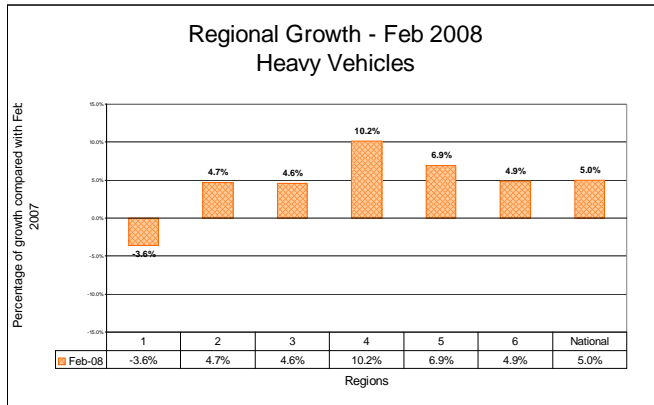
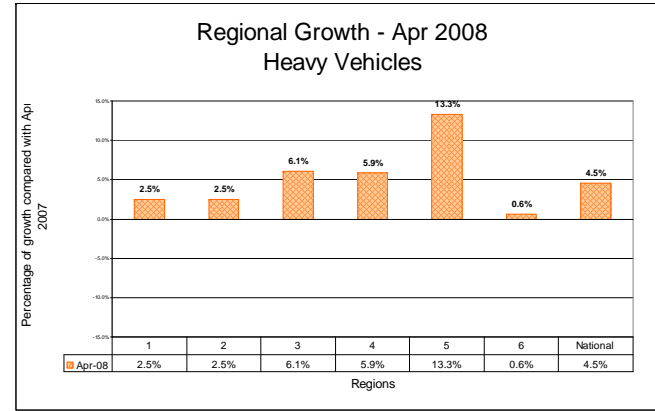
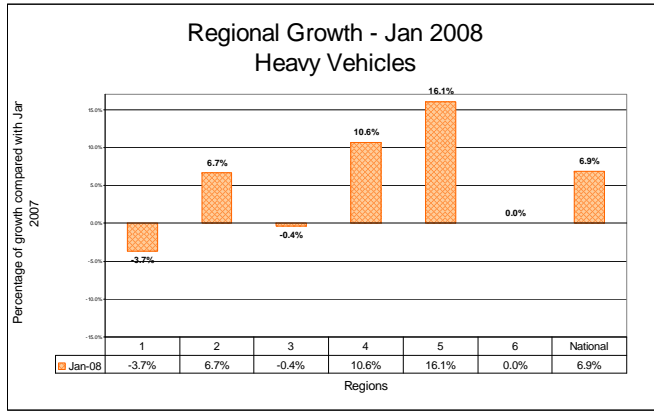
Regional Growth - Mar 2009  
Heavy Vehicles



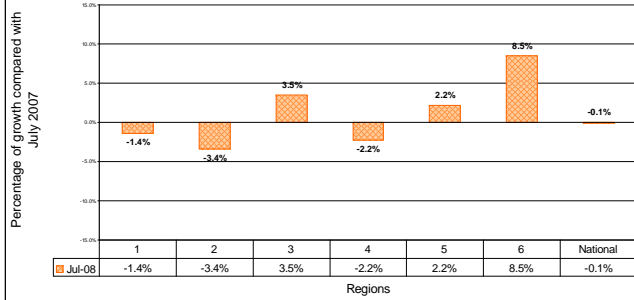
Regional Growth - Jun 2009  
Heavy Vehicles



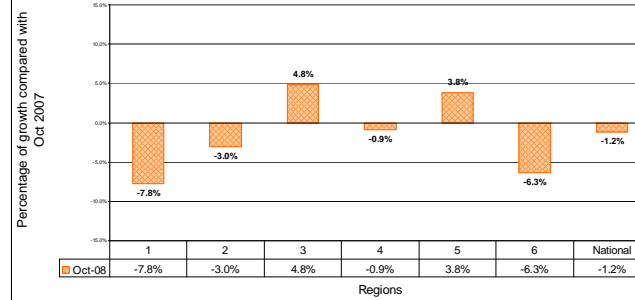




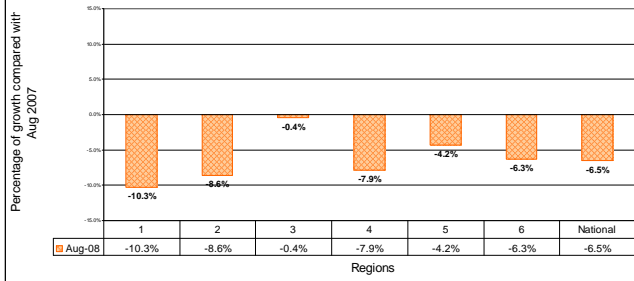
Regional Growth - July 2008  
Heavy Vehicles



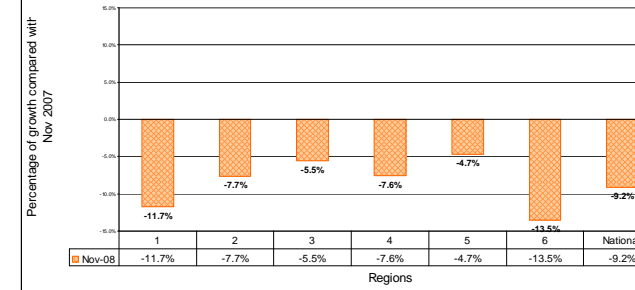
Regional Growth - Oct 2008  
Heavy Vehicles



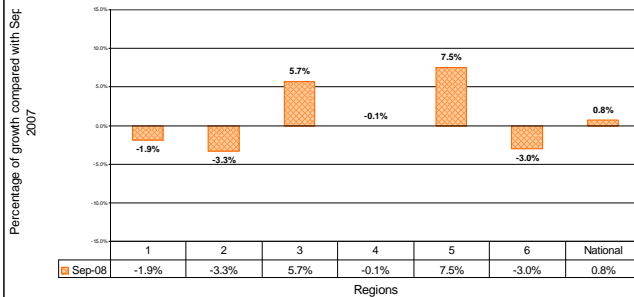
Regional Growth - Aug 2008  
Heavy Vehicles



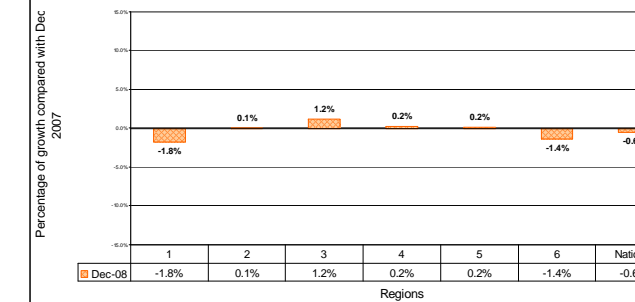
Regional Growth - Nov 2008  
Heavy Vehicles



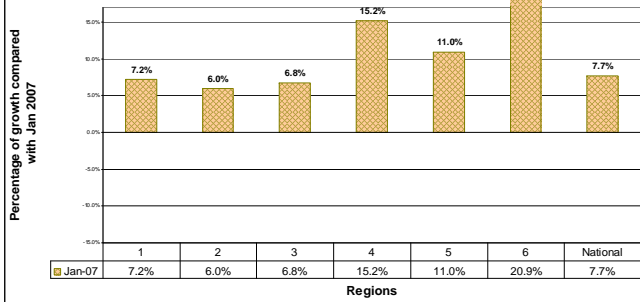
Regional Growth - Sep 2008  
Heavy Vehicles



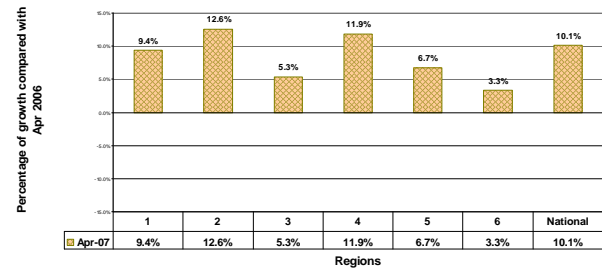
Regional Growth - Dec 2008  
Heavy Vehicles



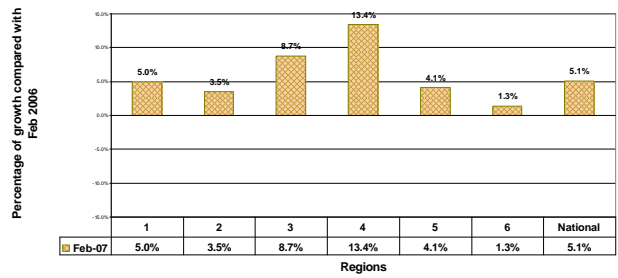
### Regional Growth - Jan 2007 Heavy Vehicles



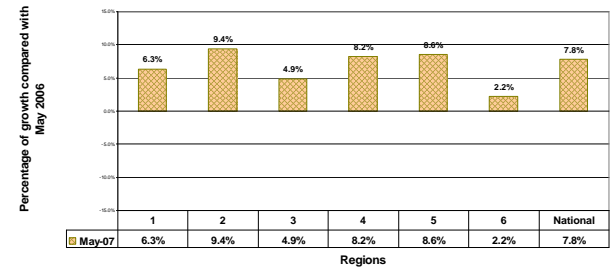
### Regional Growth - Apr 2007 Heavy Vehicles



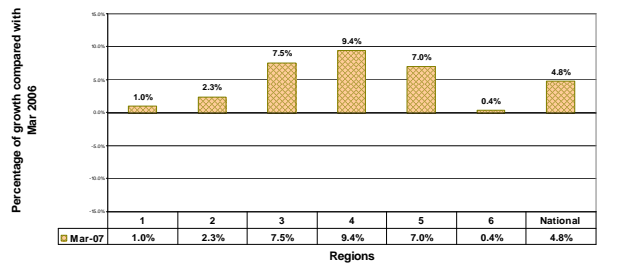
### Regional Growth - Feb 2007 Heavy Vehicles



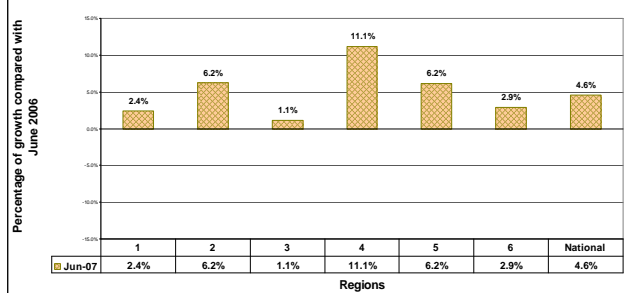
### Regional Growth - May 2007 Heavy Vehicles



### Regional Growth - Mar 2007 Heavy Vehicles

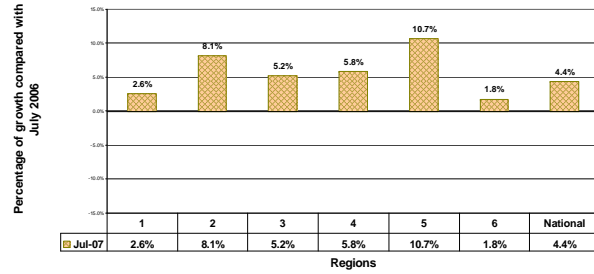


### Regional Growth - June 2007 Heavy Vehicles

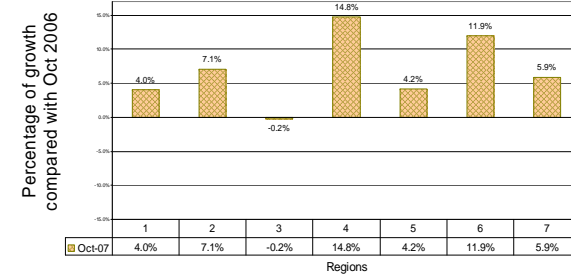




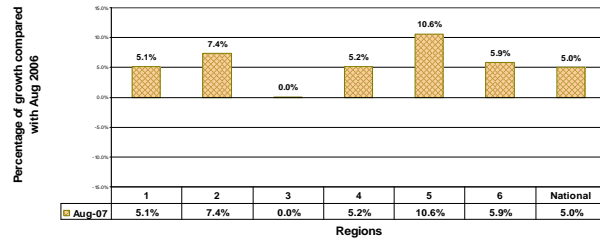
### Regional Growth - July 2007 Heavy Vehicles



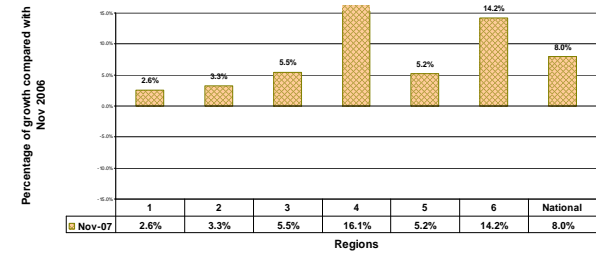
### Regional Growth - Oct 2007 Heavy Vehicles



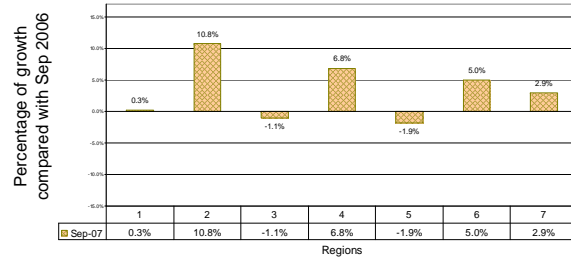
### Regional Growth - Aug 2007 Heavy Vehicles



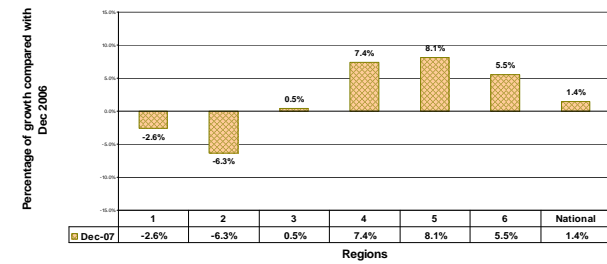
### Regional Growth - Nov 2007 Heavy Vehicles



### Regional Growth - Sep 2007 Heavy Vehicles



### Regional Growth - Dec 2007 Heavy Vehicles



Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10
1	ID:01N00212	KAWAKAWA	5480	5205	5419	5241	5365	6123	6245	7049	7635	6772	6312	6452	5345
1	ID:01O00029	Sth of Takou Bay Rd			3027	3045	3235		3540	3927		3994	3787		3085
1	ID:01N00274	Nth of Maungakaramea Rd			13055	12650			13959	14688		14706	14424	14545	
1	ID:01200220	East of Brynderwyn Brg 161						2665	2847	2900			3037	2838	2595
1	ID:01N00130	Nth of Ramseys Brg				916	1032	1068	1121	1293			1194	1197	
1	ID:01N00265	Sth of Selwyn Avenue			20620							22947			22081
1	ID:01700006	HATFIELDS BEACH	5504	5058	5296	5227	5250	5819	5827	6733	7302	6473	5843	5829	5100
1	ID:01N10459	DRURY - SB	27503	26292	27896	27036	27417			31856	30074	30620	30113	29833	27716
1	ID:01N20459	DRURY - NB	27508	27008	28085	27273	27320			30272	30654	31181	30211	30070	27994
1	ID:01N00339	WELLSFORD				7663	7655	9084	8871	10198	11878	10071	9173	9761	7941
1	ID:01N10440	PANAMA Rd - SB	60129	58263	60209	59576	62168	60956	62539	60908	56292	62318	63014	60094	59742
1	ID:01N20440	PANAMA RD - NB	56825	55650	57546	57434	59628	58768	59448	57442	54884	59272	59335	56952	56372
1	ID:01N10474	BOMBAY - SB	16532	15594	16786	16016	16437	17991		17882		19253	17940	18975	16117
1	ID:01N20474	BOMBAY - NB	16171	16022	16705	16067	16165	17824		18367		19199	18064	18935	16267
1	ID:01N00388	ALPURT	11939	11232	11855	11483	11753	13558	13415	15868	17735	15341	14062	14483	12291
1	ID:01N00424	Auckland Harbour Brg - Centre Span	84221	76340	83792	82350	83580	83103	85173	83000	78228	83216	85638	79222	79507
1	ID:01N10424	Auckland Harbour Brg - Left Clip-on	38693	38479	39197	36782	38389	38020	38714	32275	30569	38195	38319	36956	38376
1	ID:01N20424	Auckland Harbour Brg - Right Clip-on	35896	38224	36471	38506	40429	40738	42678	42414	38134	42551	43334	40179	39868
2	ID:00200002	MAUNGATAWHIRI	11943	10976	11883	11138	11418	13193	12693	14430	17100	14336	13291	14240	11328
2	ID:25A00011	NEEVESVILLE	2598	2275	2503	2484	2567	3346	3101	4145	5385	3854	3272	3694	2387
2	ID:02700011	KAIHERE	3838	3645	3991	3760	3832	4215	4186	4676	4697	4568	4352	4511	3862
2	ID:01N00526	TAUPIRI	19794	19493	20987		19780	20927	20934	21832	21086	21695	20928	21182	19257
2	ID:01N00620	LICHFIELD	8384	8185	8663	8271	8689		9215	9139		9579	9288	9741	8293
2	ID:00300085	TE KUITI	3691	3796	4372	4063	4047	4276	3921	4590	4334	4164	4108	4207	3677
2	ID:03200074	West of Taupo	646	628	752	711	739	787	847	832	995	835	747	854	591
2	ID:01N00580	KARAPIRO	13839	12699	13687	13234	13898	14869	14950	15705	15817	15706	15175		13671
2	ID:00200091	WAIHI	6833	6507	6788	6509	6887	7608	7366	8656	10169				6729
2	ID:01N00729	HALLETS BAY	6096	4389	5530	4969	5005	5276	5350	5646	7208	5849	5131	5805	4271
2	ID:01N00628	TOKOROA	7892	7658	8200	7767	8113	8640	8625	9227	9191	9007	8664	8797	7634
2	ID:00200141	TE PUNA	15699	14666	15025	14810	14938	15733	16531	17635	16951	17150	16646	16425	15876
2	ID:03010149	TE NGA	16801	16464	16332	16606	16608	17083	17480	17846	16982	17512	17532	17016	16625
2	ID:03020149	East end of Puarenga Brg (Dec)	16693	16516	16369	16566	16565	17079	17489	17545	17222	17578	17542	17015	16716
2	ID:00200204	OHINEPANEA	4548	4260	4368	4302	4398	4895	4880	5469	5601	5067	4944	5117	4555
2	ID:03000188	LAKE ROTOMA	2702	2579	2670	2569	2706	2937	2969	3356	3677	3171	3056	3169	2753
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	4488	4204	4342	5096	5156	4619	4207	4388	4799	4379	4224		3836
2	ID:00500034	TARUKENGA	4834	4686	4964	4710	4928	5375	5155	5623	5894	5463	5271	5731	
2	ID:02900034	KAIMAI	8611	8352	8501	8421	8649	9421	9211	10106	10108	9676	9425	10014	
2	ID:00500057	WAIPA	8429	6414	6970	6575	6685	7187	7363	7893	8545	7858	7557	7652	6574
2	ID:00200176	TE PUKE	19775	18694	18625	19086	19818	18917		20129	19392	19596	19846	20172	19572
2	ID:00200242	AWAKERI	8709	8452	8629	8442	8461	8926	9104	9600	9084	8995	9228	9200	8332
3	ID:00200428	ORMOND	2220	2171	2151	2134	2138	2398	2436	2529	2745	2695	2620	2528	2185
3	ID:00200627	TANGOIO	1914	1818	1825	1784	1797	2039	1989	2298	2446	2230	2103	2264	1898
3	ID:00500230	TE POHUE	2457	2169	2558	2368	2463		2808	2650		3337	2923	3142	1824
3	ID:05000010	Nth of Tutaekuri River	20837	20017	20367	19941	20571	20539	22120	22585	20841	22993	23557	22112	21287
3	ID:00300171	TONGAPORUTU Brg	1807	1817	1912	1739	1831	2193	2078	2448	2598	2287	2067	2308	1738
3	ID:00300267	TARIKI				8187	8188	8687	9154	9401	8486	9172	9272	9155	8615
3	ID:00300370	WAITOTARA	3138	3076	3267	3097	3168	3509	3534	3800	3706	3737	3559	3696	3184
3	ID:04500101	OHAWE BEACH Rd		4003	4032	4055	4212	4360	4311	4327	4074	4168	4050	3938	3557

Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10
3	ID:01N00930	SANSON	11313	11005		11393	11339	12338	12361	13330	13158	13071	12605	13161	11581
3	ID:01N00988	OHAU	14122	13477	14381	14025	14164	15278	15257	16401	16592	16262	15384	15766	13843
3	ID:00200755	NORSEWOOD	3644	3316	3520	3376	3519	4111	3975	4536	4779	4448	4195	4376	3484
3	ID:00300489	MANAWATU GORGE	6465	6088	6336	6155	6194	6756	6809	7408	7469	7412	7074	7277	6492
3	ID:00400133	HOROPITO	1505	1857	2403	2336	2168	2202	1748	2013	2145	1981	1759	1957	1418
3	ID:00400226	UPOKONGARO		1753	1902	1820	1805	2061	2018	2179	2229	2194	2058	2084	1769
3	ID:01N00827	HIHITAHAI	3891	3791	4505	4125			4596	4926	5965	5040	4397	5154	3765
4	ID:01N11068	NGAURANGA - SB	22141	21890	22444	22582	22148	22729	23446	22279	19697		23705	22655	22574
4	ID:00200895	CLAREVILLE	9983	9841	9931	10175	10077	10284	10861	11143	10246	11163	11143	10758	10294
4	ID:00200937	RIMUTAKA	4938	4676	4980	5044	5051	5423	5749	6143	6340	6068	5906	6161	5117
4	ID:01N01036	PUKERUA BAY	22362	21667	22750	22439	22341	23670	24151	24988	24379	25212	24384	24329	22623
4	ID:01N21068	NGAURANGA - NB	22414	21932	22320	22522			23432	22251	18402		23547	22411	22501
4	ID:05800009	Pauatahanui East	13447	13331	13461	13701	13451	13434	14405	13461	12980	14533	14710	14160	13819
4	ID:00210979	NGAURANGA SH2 - SB	21095	20669	21497	21130	21334	21735	22333	21235	18046		22429	21736	21878
4	ID:00220979	NGAURANGA SH2 - NB	21480	20910	21465	21370			22271	21112	16747		22860	21494	21644
4	ID:00600122	STOKE	19974	19547	19694	19690	20062	20761	22123	22645	21947	22527	22332	21331	20576
4	ID:00600232	MURCHISON	1515		1292	1283		1737	1856	2086	2717	2354	2037	2073	1345
4	ID:00600100	HIRA	2947	2736	2769	2787	2884	3169	3374	3699	4092	3953	3718	3475	2882
4	ID:06000040	Riwaka	3137	2633	2555	2669	2804	3345	3844	4263	6311	5212	4261	3835	2869
4	ID:01S00037	Blenheim	3349	3292	3510	3284	3241	3590	3865	4029			3730	4242	3100
5	ID:01S00389	DUNSANDEL	9150	8794	9592	9127	9363	10232	10478	10955	10746	10959	10637	10970	9050
5	ID:01S00505	EVANS St Timaru	19884	18936	19519	19000	19374	20447	21138	22004	20106	20955	20770	20510	19086
5	ID:07300064	Springfield	1274	1207	1705	1605	1551	1689	1634	1782	1986	1951	1518	1779	1258
5	ID:01S00144	KAIKOURA	2049	1818	2002	1866	1993	2470	2683	2837	3662	3195	2686	2826	1908
5	ID:01S00522	ST ANDREWS	5421	4905	5384	5008	5202	5737	5839	6169			6169	6270	5129
5	ID:00700108	LEWIS PASS	944	824	954	869	973	1183	1190	1375	1842	1430	1251	1373	884
5	ID:07409005	QE II Drive East Of Main Nth Rd	18131		17944	18255	19021	18943	19383	19571	17299	19488	19443		18441
5	ID:01S00285	WAIPARA	6434	6144	6571	6247	6487	7570	7663	8456	9235	8382	7898	8380	6374
5	ID:00600454	CHESTERFIELD	2461	2276	2381	2330	2550	2844	3012	3180	3297	3363	3389	3027	2501
5	ID:00700239	AHAURA	1184	1115	1168	1107	1185	1253	1291	1343	1368	1446	1390	1331	1169
5	ID:00600398	PUNAKAIKI	803	671	704	700	813	1020	1080	1207	1388	1392	1190	1048	762
6	ID:00800336	ALEXANDRA	1855	1712	1796	1917	1952	2126	2054	2339	2808	2373	2157	2439	1821
6	ID:01S10713	BURNSIDE - SB	15625	15051	15228	15223	15074	15551	16185	15886	13921	16199	16270	15587	15363
6	ID:01S20713	BURNSIDE - NB	10676	10459	10496	10350	10331	10623	11025	10763	9589	11196	11206	10828	10868
6	ID:01S50713	BURNSIDE - NB On Ramp	2462	2412	2457	2483	2468	2509	2618	2610	2262	2631	2586	2477	2526
6	ID:01S60713	BURNSIDE - SB Off Ramp	3024	2955	2978	3031	3076	3078	3217	3100	2767	3328	3218	3037	3117
6	ID:01S40713	BURNSIDE - NB Off Ramp	3850	3305	3260	3287	3231	3315	3471	3290	2982	3468	3442	3285	3393
6	ID:01S40714	Burnside - NB Off Ramp	2084	2065	2032	2108	2128	2158	2264	2203	1966	2302	2245	2096	2156
6	ID:01S00765	MILTON	5734	5445	5578	5505	5821			6773	6344				5696
6	ID:06A00001	FRANKTON	14898	15487	17369	17363	16321	16118	16908	17806	18442	18236	17460	17145	14999
6	ID:01S00921	INVERCARGILL	11903	11640	11525	11941	11655	11801	12364	11630	9999	12000	12434	11401	11727
6	ID:00601147	WINTON	4582	4346	4310	4236	4413	4675	5004	5109	4529	4845	4801	4580	4520
6	ID:01S00854	GORE	3814	3462	3580	3521	3577	3894	4101	4133	3928	4354	4095	4033	3690
6	ID:09400141	TE ANAU	927	621	632	619	807	1114	1419	1452	1590	1520	1479	1209	796

## Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10
1	ID:01N00212	KAWAKAWA	603	551	552	541	603	665	750	735	773	743	724	683	586
1	ID:01000029	Sth of Takou Bay Rd			219	228	261		290	295		305	301		232
1	ID:01N00274	Nth of Maungakaramea Rd			1305	1314			1509	1635		1592	1650	1654	
1	ID:01200220	East of Brynderwyn Brg 161						292	325	285			285	244	223
1	ID:01N00130	Nth of Ramseys Brg				131	165	161	163	159			194	167	
1	ID:01N00265	Sth of Selwyn Avenue			812										
1	ID:01700006	HATFIELDS BEACH	278	261	260	246		249	263	285	283	268	254	238	202
1	ID:01N10459	DRURY - SB	2250	2184	2149	2083	2251			2379	2159	2593	2740	2502	2314
1	ID:01N20459	DRURY - NB	2164	2104	2061	1987	2117			2229	2082	2502	2613	2406	2212
1	ID:01N00339	WELLSFORD				778	837	927	973	996	1138	1086	1046	963	834
1	ID:01N10474	BOMBAY - SB	1806	1741	1718	1656	1777	1881		2199		2239	2290	2087	1885
1	ID:01N20474	BOMBAY - NB	1784	1742	1698	1645	1742	1838		2329		2228	2215	2102	1930
1	ID:01N00388	ALPURT	1266	1210	1181	1099	1256	1385	1466	1551	1623	1587	1483	1361	1147
2	ID:00200002	MAUNGATAWHIRI	1542	1490	1480	1402	1501	1535	1689	1637	1712	1820	1896	1901	1562
2	ID:25A00011	NEEVESVILLE	240	215	210	214	241	305	286	352	388	300	294	318	209
2	ID:02700011	KAIHERE	755	738	721	727	790	785	885	854	792	905	949	839	810
2	ID:01N00526	TAUPIRI	1915	1897	1821		1953	2034	2224	2102	1934	2240	2309	2074	1952
2	ID:01N00620	LICHFIELD	1270	1207	1204	1159	1349		1462	1492		1396	1567	1494	1317
2	ID:00300085	TE KUITI	627	616	588	562	619	685	686	648	618	701	746	680	660
2	ID:03200074	West of Taupo	123	121	120	108	121	126	134	106	115	118	123	122	107
2	ID:01N00580	KARAPIRO	1361	1257	1186	1271	1369	1505	1548	1584	1586	1681	1624		1383
2	ID:00200091	WAIHI	790	734	735	700	804	803	872	859	884				773
2	ID:01N00729	HALLETTS BAY	979	714	725	697	733	707	820	717	800	859	853	808	739
2	ID:01N00628	TOKOROA	1238	1185	1165	1135	1269	1335	1482	1361	1241	1393	1577	1360	1271
2	ID:00200141	TE PUNA	1201	987	1024	1019	1123	1126	1241	1184	1099	1233	1362	1296	1213
2	ID:03010149	TE NGA	872	890	817	924	962	990	1052	982	966	1075	1087	1000	931
2	ID:03020149	East end of Puarenga Brg (Dec)	920	913	839	974	1011	1023	1095	1021	1017	1140	1151	1076	1020
2	ID:00200204	OHINEPANEA	705	625	693	726	727	751	814	769	725	766	793	773	727
2	ID:03000188	LAKE ROTOMA	304	291	278	311	348	346	372	351	376	387	405	395	348
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	580	565	561	574	600	577	593	617	616	633	645		560
2	ID:00500034	TARUKENGA	518	490	486	461	540	579	613	622	600	643	650	682	
2	ID:02900034	KAIMAI	1093	1015	984	990	1054	1139	1372	1196	1136	1238	1332	1248	
2	ID:00500057	WAIPA	928	739	769	745	775	806	852	768	787	877	906	864	795
2	ID:00200176	TE PUKE	1957	1715	1661	1706	1893	1727		1675	1561	1850	2003	1986	1983
2	ID:00200242	AWAKERI	700	633	653	643	679	723	779	776	763	810	900	786	673
3	ID:00200428	ORMOND	224	215	186	188	190	205	227	217	263	292	327	277	218
3	ID:00200627	TANGOIO	380	357	331	305	306	319	353	353	360	392	422	409	389
3	ID:00500230	TE POHUE	477	427	447	438	450		533	471		551	572	545	388
3	ID:05000010	Nth of Tutaekuri River	1437	1218	1200	1103	1215	1171	1390	1486	1380	1542	1802	1596	1426
3	ID:00300171	TONGAPORUTU Brg	327	331	322	743	310	346	402	415	362	385	407	404	360
3	ID:00300267	TARIKI				743	863	967	1057	978	978	1043	1073	1002	924
3	ID:00300370	WAITOTARA	453	437	418	458	452	554	607	538	532	563	547	613	511
3	ID:04500101	OHAWA BEACH Rd		231	225	354	501	553	563	516	520	511	479	392	294
3	ID:01N00930	SANSON	1311	1282		1270	1289	1423	1578	1518	1441	1557	1579	1576	1447
3	ID:01N00988	OHAU	1371	1337	1367	1329	1386	1444	1565	1499	1428	1605	1628	1548	1457
3	ID:00200755	NORSEWOOD	545	498	481	464	520	571	627	594	610	653	696	674	549

## Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10
3	ID:00300489	MANAWATU GORGE	772	715	704	674	696	759	843	799	834	886	895	841	757
3	ID:00400133	HOROPITO	284	285	292	260	263	307	309	309	288	322	338	320	272
3	ID:00400226	UPOKONGARO		142	155	149	146	173	188	168	173	200	195	170	142
3	ID:01N00827	HIHITAH	813	776	801	750			888	792	809	905	892	934	858
4	ID:01N11068	NGAURANGA - SB	756	764	759	764	776	770	799	764	710		821	650	557
4	ID:00200895	CLAREVILLE	490	467	453	504	569	551	617	570	519	626	640	608	516
4	ID:00200937	RIMUTAKA	286	263	271	275	284	309	353	330	324	345	361	353	303
4	ID:01N01036	PUKERUA BAY	1449	1448	1455	1411	1485	1570	1683	1568	1399	1674	1796	1666	1609
4	ID:01N21068	NGAURANGA - NB	687	668	673	732			760	738	641		740	700	676
4	ID:05800009	Pauatahanui East	388	400	404	408	411	385	462	704	733	810	814	572	522
4	ID:00210979	NGAURANGA SH2 - SB	697	694	717	707	721	727	767	724	646		773	694	665
4	ID:00220979	NGAURANGA SH2 - NB	680	668	689	675			732	697	559		781	714	704
4	ID:00600122	STOKE	1219	1129	1120	1097	1151	1216	1281	1176	1198	1372	1504	1366	1273
4	ID:00600232	MURCHISON	229		189	212		263	295	283	372	340	323	298	240
4	ID:00600100	HIRA	396	411	416	430	458	436	477	471	472	554	556	519	448
4	ID:06000040	Riwaka	223	153	146	161	190	216	263	265	364	341	317	276	208
4	ID:01S00037	Blenheim	499	452	450	454	488	528	566	606			608	754	500
5	ID:01S00389	DUNSANDEL	1229	1123	1145	1170	1331	1453	1531	1498	1442	1595	1604	1513	1277
5	ID:01S00505	EVANS St Timaru	1301	1181	1158	1212	1382	1503	1592	1498	1379	1566	1656	1462	1313
5	ID:07300064	Springfield	158	142	145	175	178	222	211	213	216	252	205	213	172
5	ID:01S00144	KAIKOURA	424	393	393	380	415	455	499	455	520	539	497	527	436
5	ID:01S00522	ST ANDREWS	780	665	684	741	840	920	948	931			1035	928	769
5	ID:00700108	LEWIS PASS	154	138	150	150	163	182	196	195	273	220	211	200	160
5	ID:07409005	QE II Drive East Of Main Nth Rd	491		493	480	552	551	567	521	475	583	578		477
5	ID:01S00285	WAIPARA	917	850	844	873	958	1004	1097	1100	1118	1224	1255	1196	1003
5	ID:00600454	CHESTERFIELD	233	190	199	209	305	368	383	354	346	364	363	312	250
5	ID:00700239	AHAURA	174	155	156	147	180	193	207	195	195	229	203	187	164
5	ID:00600398	PUNAKAIKI	87	59	59	68	95	119	132	124	131	140	128	106	76
6	ID:00800336	ALEXANDRA	175	153	154	166	174	191	186	211	269	231	213	214	175
6	ID:01S10713	BURNSIDE - SB	576	723	722	727	772	811	910	891	759	922	926	870	737
6	ID:01S20713	BURNSIDE - NB	536		634	620	670	698	735	699	639	767	785	750	726
6	ID:01S50713	BURNSIDE - NB On Ramp	109	102	106	106	105	105	113	107	94	117	117	106	108
6	ID:01S60713	BURNSIDE - SB Off Ramp	196	187	187	191	194	197	203	196	177	214	211	192	196
6	ID:01S40713	BURNSIDE - NB Off Ramp	218	192	185	187	182	189	199	187	192	211	209	195	193
6	ID:01S40714	Burnside - NB Off Ramp	66	65	63	67	68	68	71	78	68	86	75	69	73
6	ID:01S00765	MILTON	714	579	559	578	696			821	709				725
6	ID:06A00001	FRANKTON	803	827	971	922	937	902	979	997	1062	1077	1074	996	766
6	ID:01S00921	INVERCARGILL	411	415	412	388	409	407	427	404	340	438	448	398	380
6	ID:00601147	WINTON	401	344	349	372	453	498	527	503	483	535	554	465	414
6	ID:01S00854	GORE	433	368	365	400	450	507	562	539	496	583	565	519	444
6	ID:09400141	TE ANAU	107	68	68	61	99	141	177	159	174	171	179	144	98