



## **Traffic Volumes Monthly Report**

### **December 2009**

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#### Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	7/1/2010	First draft	Gerald Wen	Neil Beckett	Chris Parkman

# 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. Please note the 2009 data validation is still underway, so these statistics are in a draft state.

In December 2009, compared with December 2008, the monthly average daily traffic (MADT) for all vehicles remained almost the same; while the MADT for heavy vehicles has had an increase of 2.3 percent.

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**In this report** This report contains the following topics.

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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 87 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	19
Taranaki, Manawatu-Wanganui, Hawkes Bay and Gisborne	15
Wellington, Nelson, Marlborough and Tasman	13
Canterbury and West Coast	11
Otago and Southland	11

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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.

The process of 2009 data validation has begun. The initial, un-validated data has been used to provide the following.

## Overall

In the last two decades, the overall annual trend in traffic growth, up to 2005, has continued to increase. Since 2006, there are minor fluctuations on that trend. The index for heavy vehicles increased at a higher rate than the all vehicles index since 1999. But in 2009, it dropped back to a similar level to 2005.

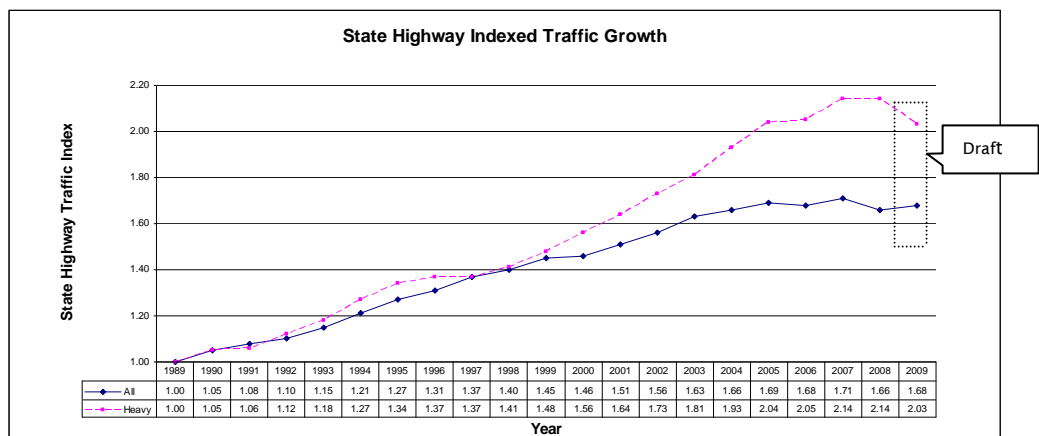
## 2009 All Vehicles

In 2009, there has been an increase of 1% in the total number of vehicles using the State Highway network, compared to 2008.

## 2009 Heavy Vehicles

In 2009, there has been a reduction of 5% in heavy vehicles using the State Highway network, compared to 2008.

## National growth (annual)



<sup>1</sup> Weighted average traffic across the 87 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 December 2009, December 2008 and percentage of difference compared are reported in the table below.

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) Dec-08	MADT (All Vehicles) Dec-09	% Change
Auckland harbour bridge (SH1)	Auckland	152208	157689	4%
Karapiro (SH1)	Hamilton	15751	15705	0%
Ngauranga Interchange (SH 1 and SH 2)	Wellington	84508	86877	3%
DUNSANDEL (Best Alternative)	Christchurch	10686	10955	3%
Burnside (SH1)	Dunedin	26440	26649	1%

In December 2009, the MADT values for Auckland, Wellington and Christchurch have had a similar increase of 3% to 4%, while Hamilton remained unchanged and Dunedin has had a minor increase of 1% when 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.

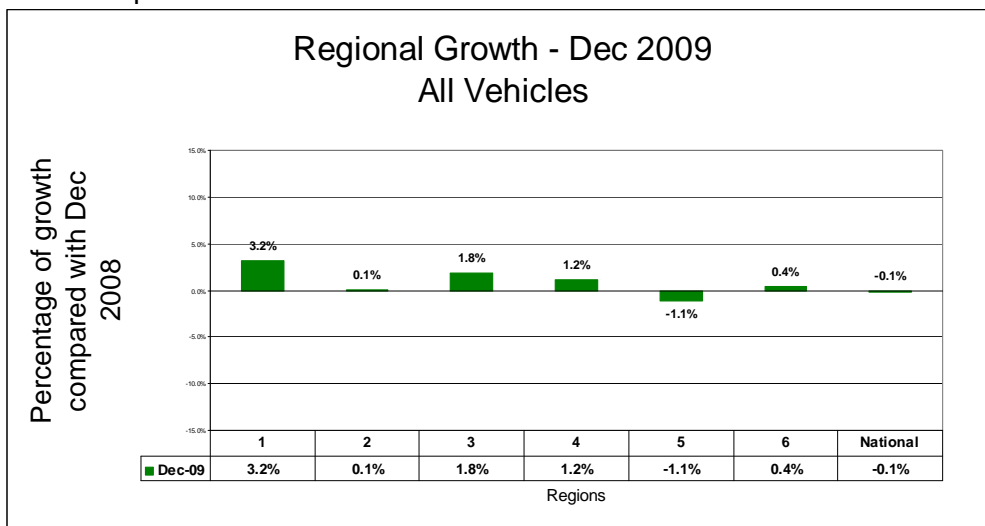
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# Results: All Vehicles

## 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 2008. The MADT values here represent all vehicle types. It can be observed that there are minor fluctuations across the country with region1 has had an increase of 3.2%, while region5 showed a slight decrease. Nationally, the MADT in December 2009 for all vehicles remained almost the same compared with December 2008<sup>1</sup>.



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.

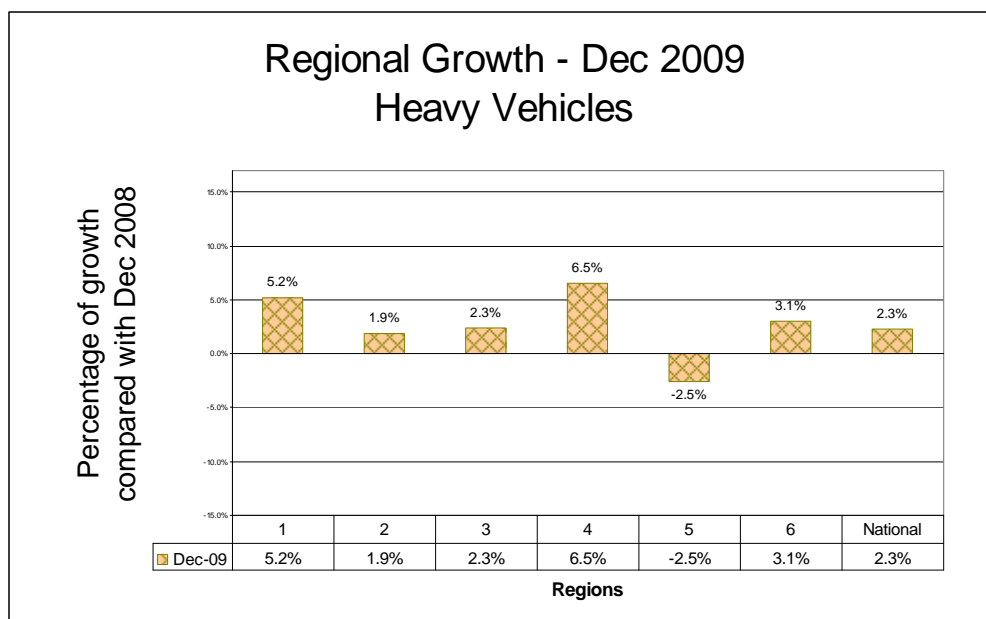
<sup>1</sup> National MADT Growth - Average of all the National telemetry sites.

# 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 2008. The MADT values here represent heavy vehicles only. It can be observed that MADT for heavy vehicles has increased in most regions, except region 5 which has had a decrease of 2.5%<sup>2</sup>. Nationally, the MADT in December 2009 for heavy vehicles has had an increase of 2.3% compared with December 2008<sup>3</sup>.



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 - Weighted average of all the National telemetry sites in the specific region.

<sup>3</sup> National MADT Growth - Average of all the National telemetry sites.



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## Appendices

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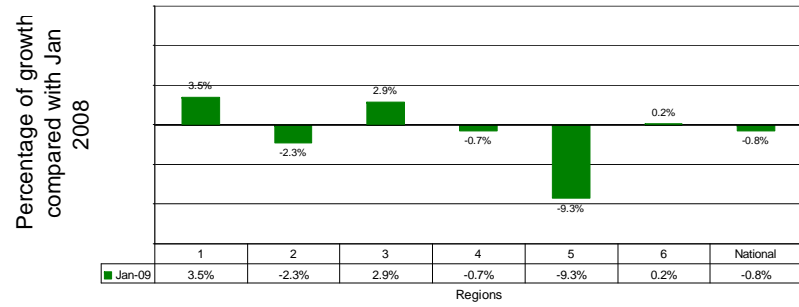
### Current and Previous Years Growth Graphs

- All Vehicles
- Heavy Vehicles

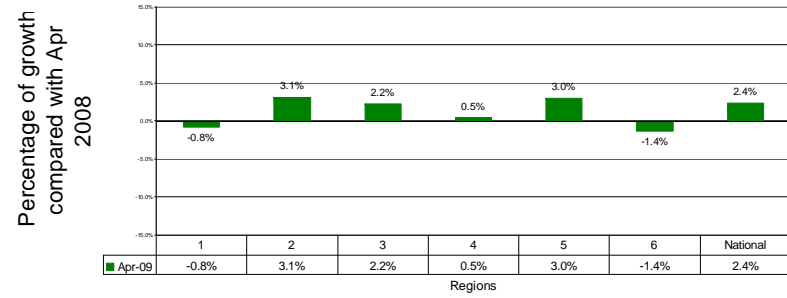
### Telemetry Site MADT's for 2009

- All Vehicles
- Heavy Vehicles

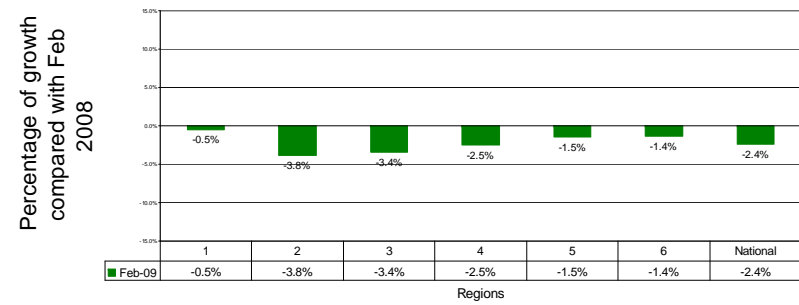
Regional Growth - Jan 2009  
All Vehicles



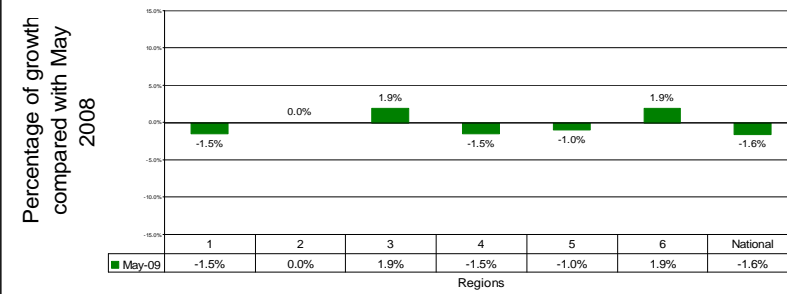
Regional Growth - Apr 2009  
All Vehicles



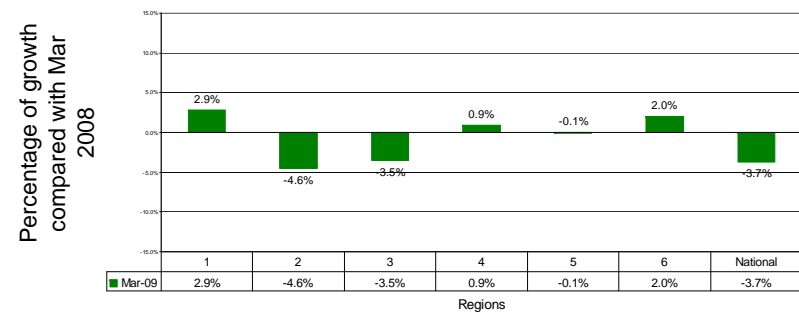
Regional Growth - Feb 2009  
All Vehicles



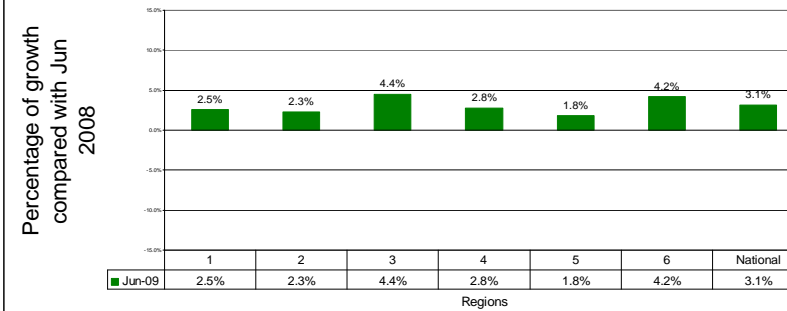
Regional Growth - May 2009  
All Vehicles

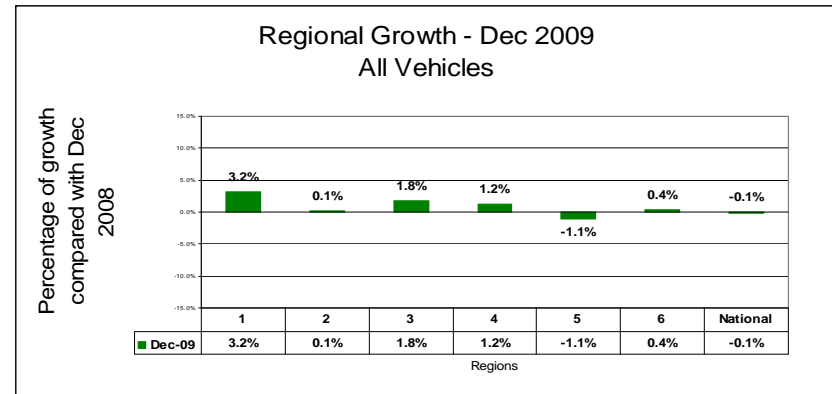
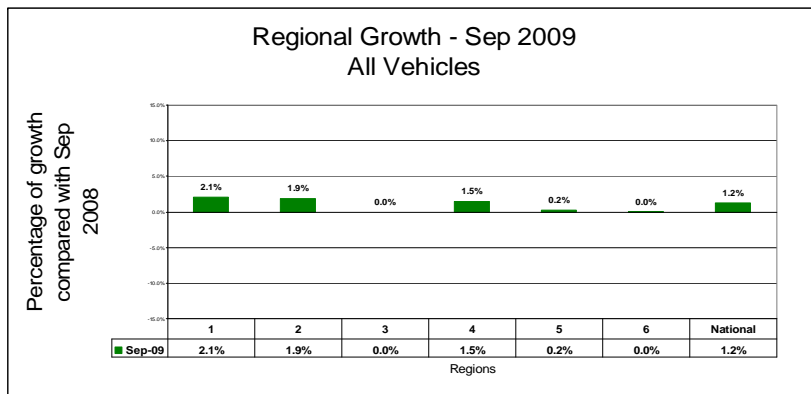
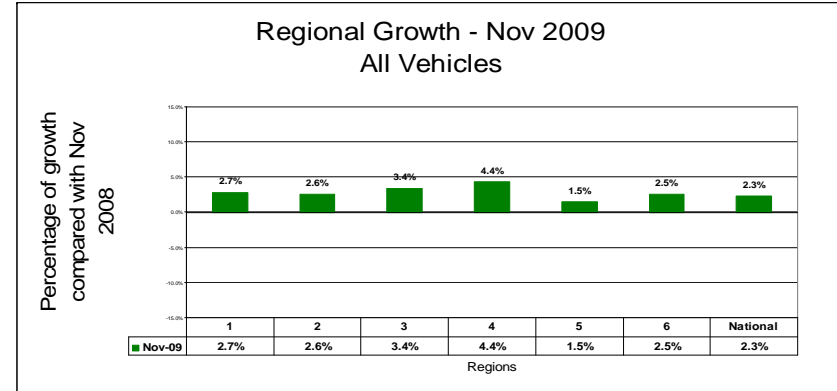
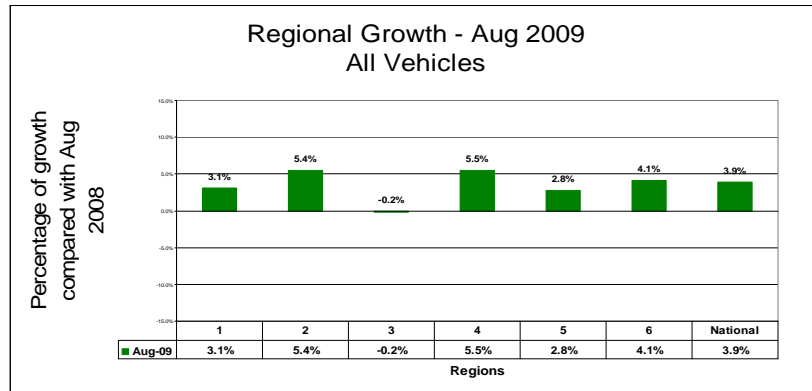
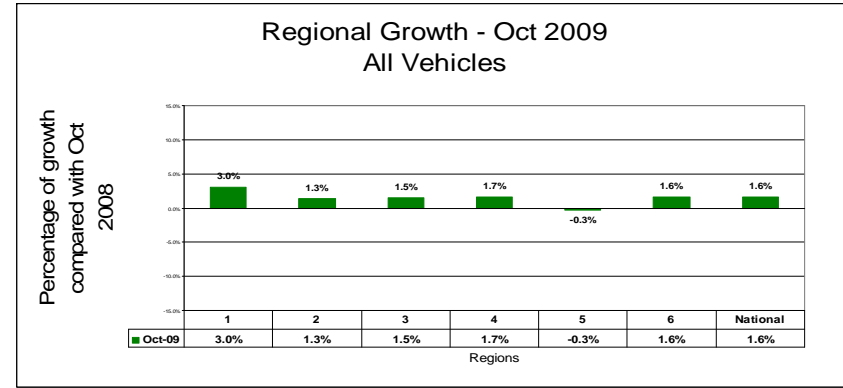
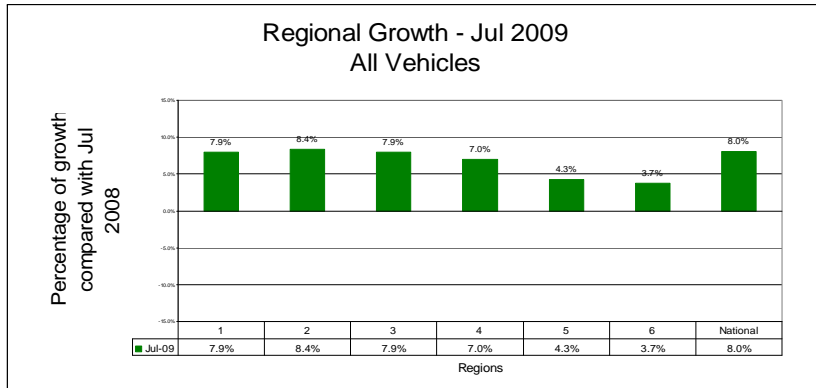


Regional Growth - Mar 2009  
All Vehicles

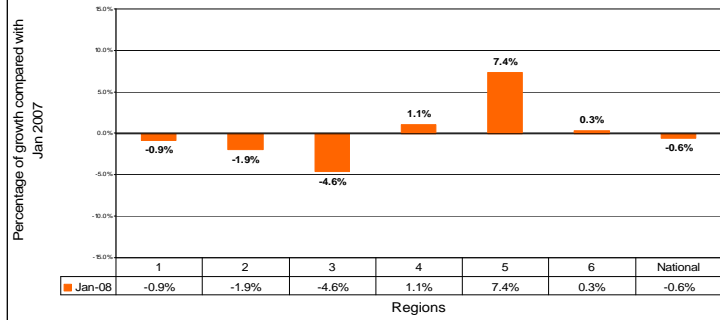


Regional Growth - Jun 2009  
All Vehicles

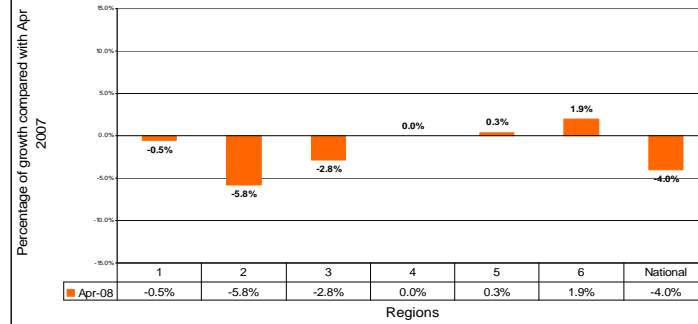




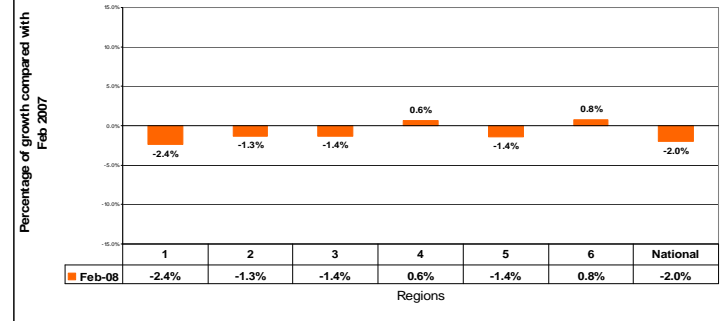
Regional Growth - Jan 2008  
All Vehicles



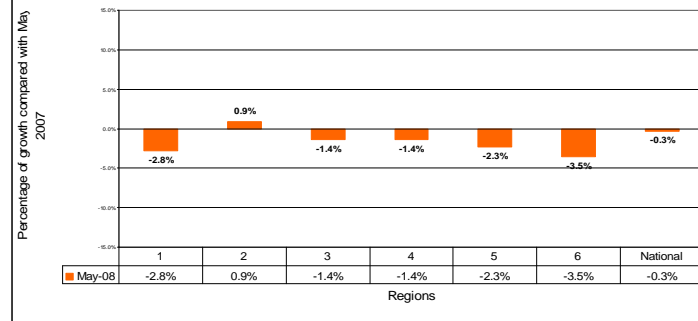
Regional Growth - Apr 2008  
All Vehicles



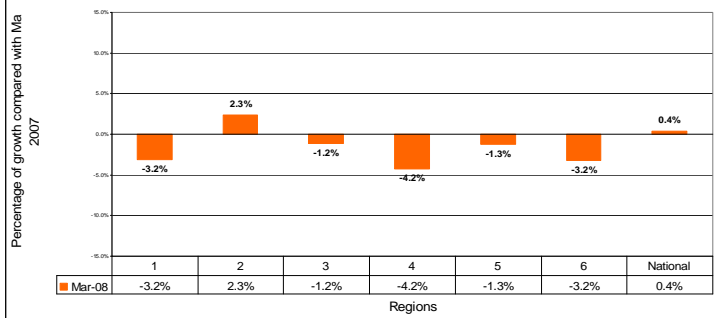
Regional Growth - Feb 2008  
All Vehicles



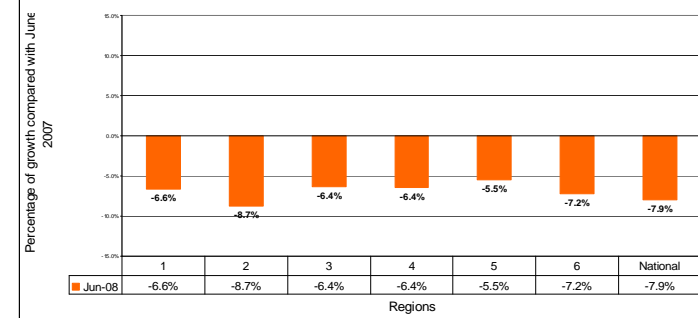
Regional Growth - May 2008  
All Vehicles



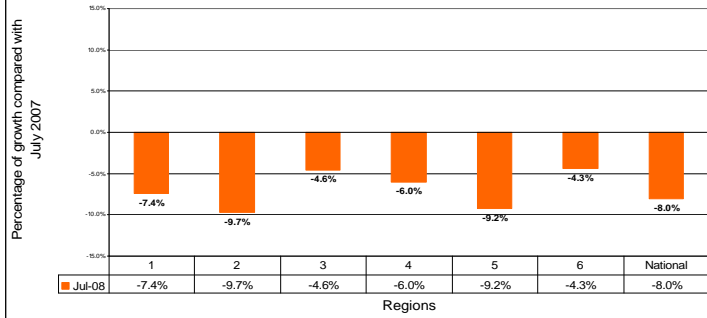
Regional Growth - Mar 2008  
All Vehicles



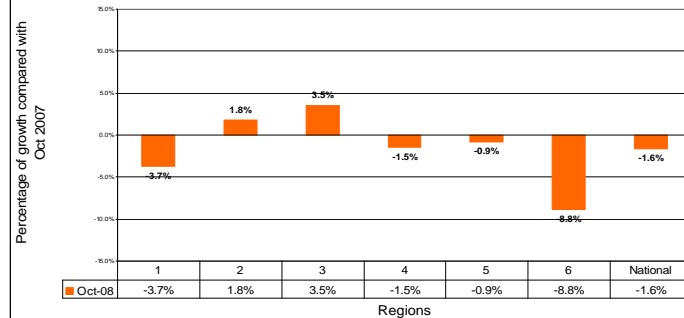
Regional Growth - June 2008  
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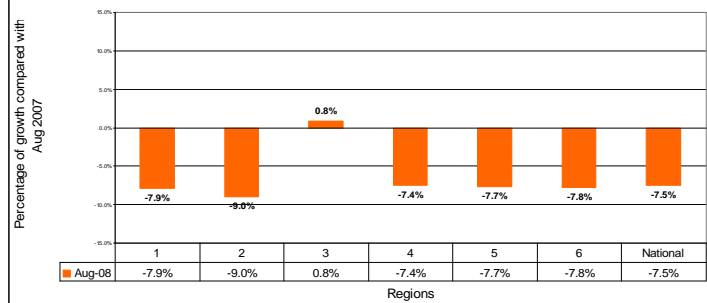
Regional Growth - July 2008  
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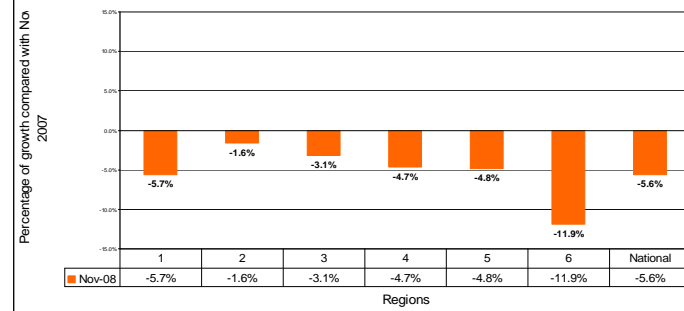
Regional Growth - Oct 2008  
All Vehicles



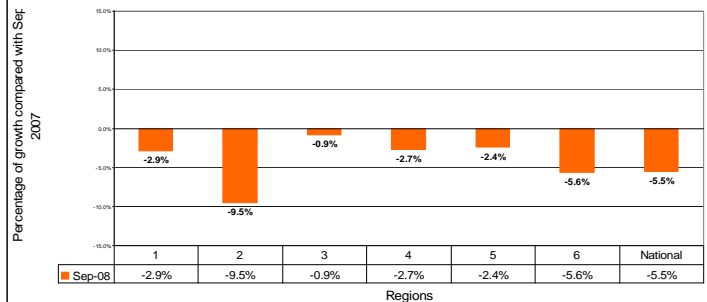
Regional Growth - Aug 2008  
All Vehicles



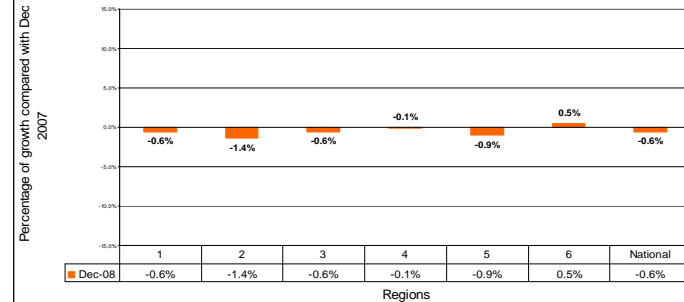
Regional Growth - Nov 2008  
All Vehicles



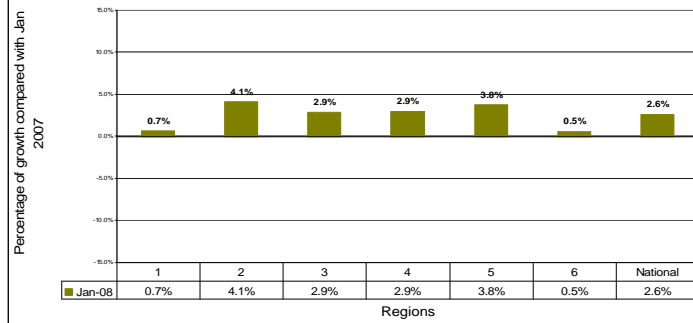
Regional Growth - Sep 2008  
All Vehicles



Regional Growth - Dec 2008  
All Vehicles



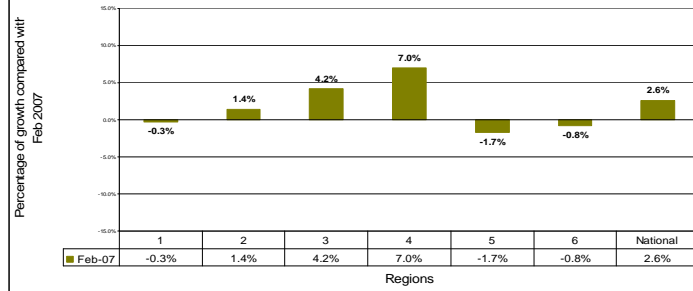
Regional Growth - Jan 2007  
All Vehicles



Regional Growth - Apr 2007  
All Vehicles



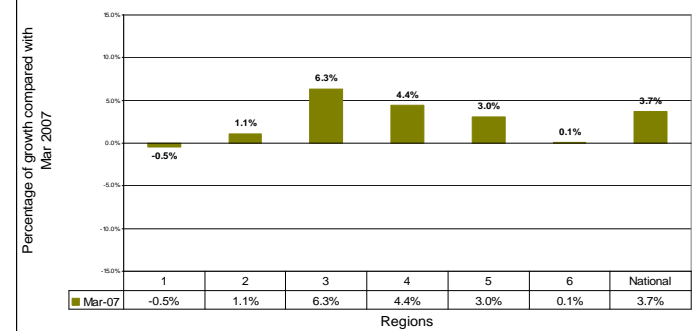
Regional Growth - Feb 2007  
All Vehicles



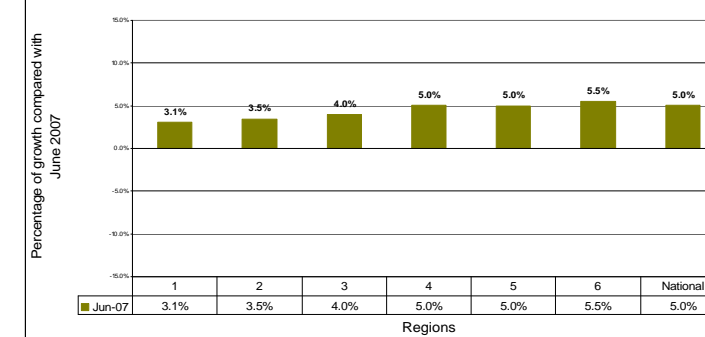
Regional Growth - May 2007  
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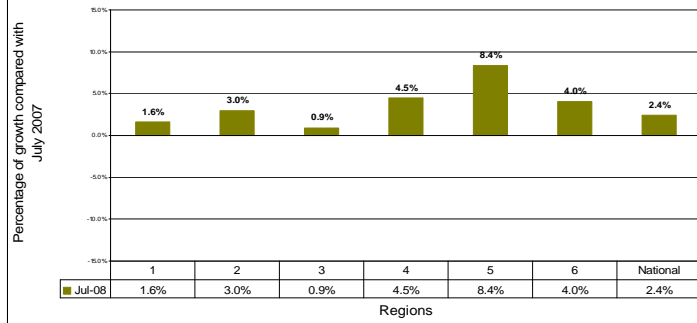
Regional Growth - Mar 2007  
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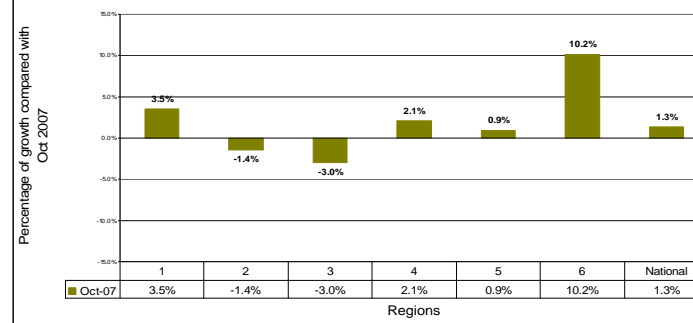
Regional Growth - June 2007  
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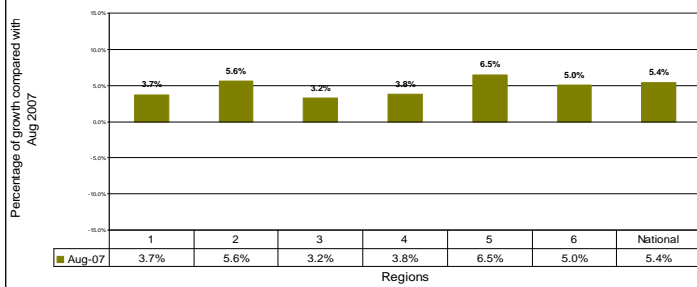
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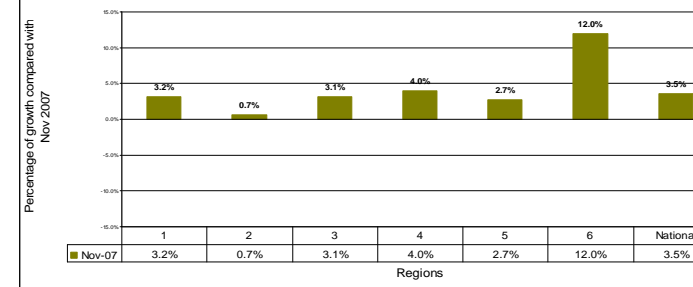
### Regional Growth - Oct 2007 All Vehicles



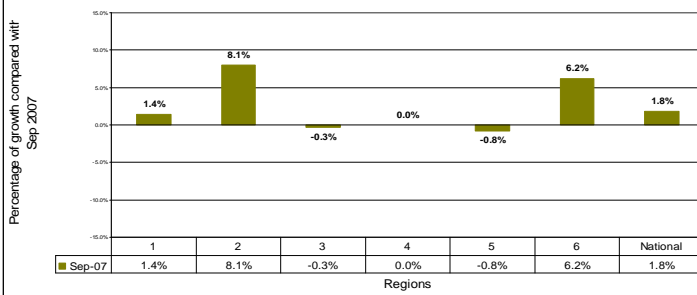
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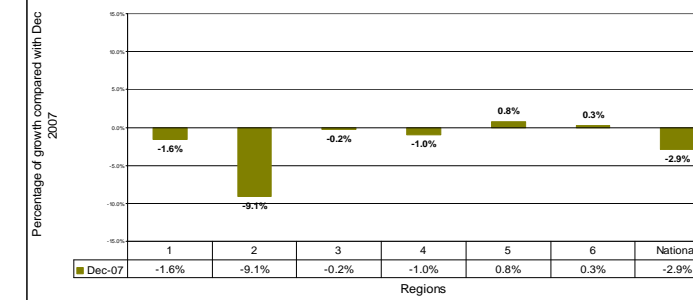
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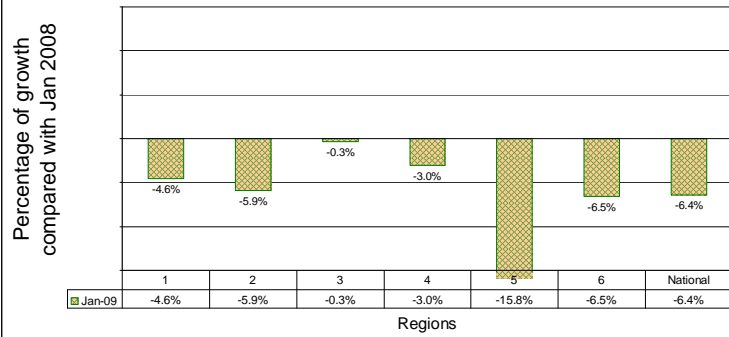
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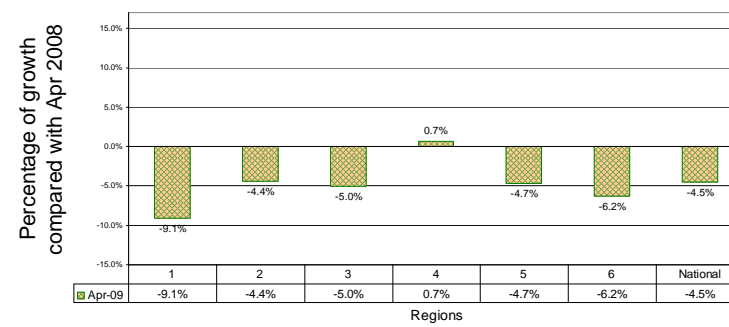
### Regional Growth - Dec 2007 All Vehicles



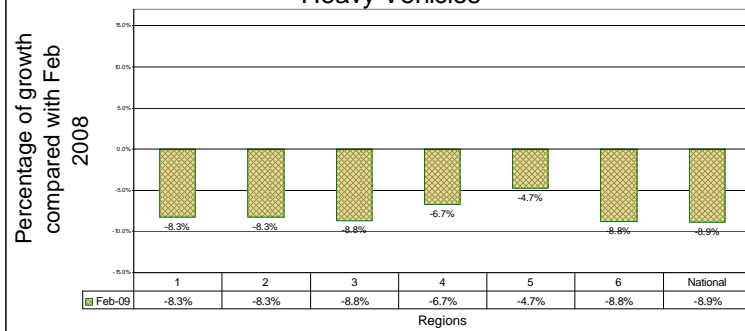
Regional Growth - Jan 2009  
Heavy Vehicles



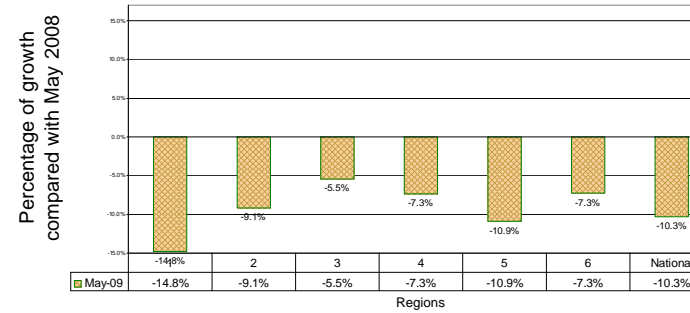
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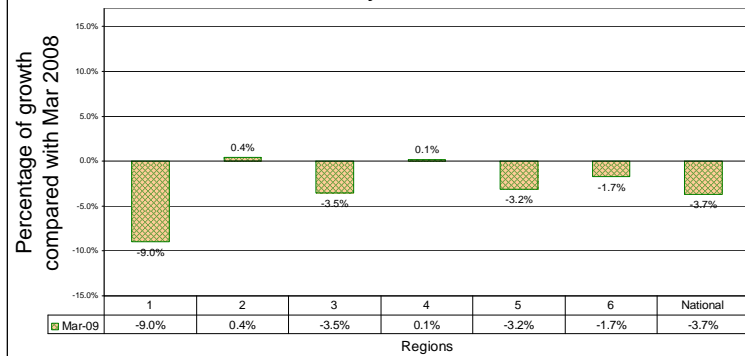
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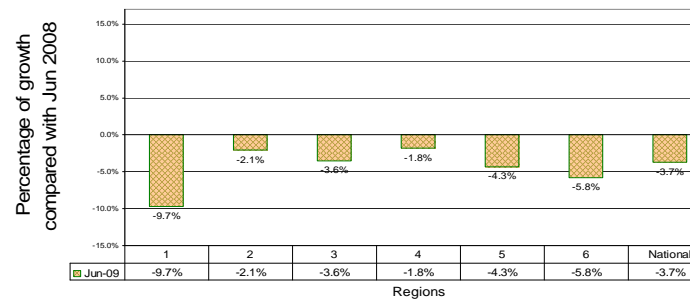
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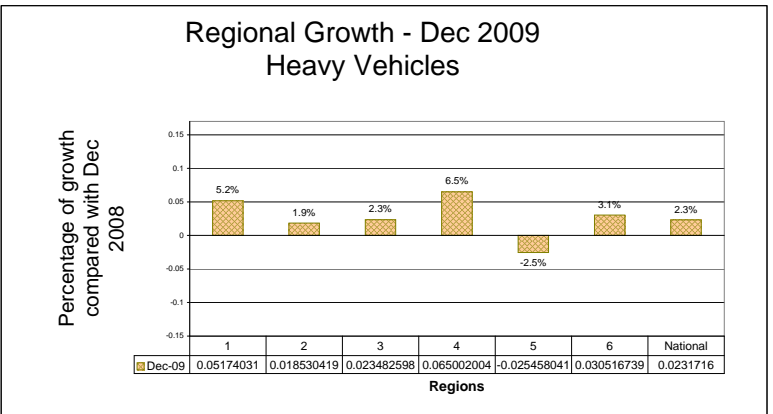
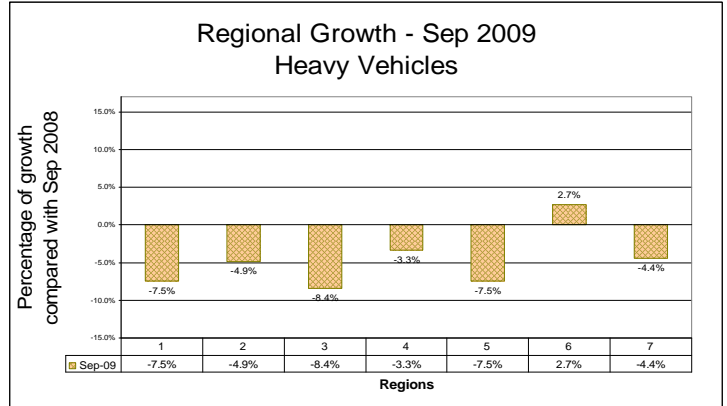
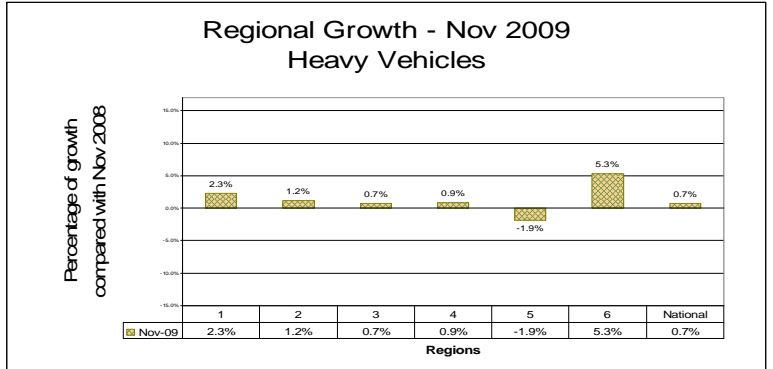
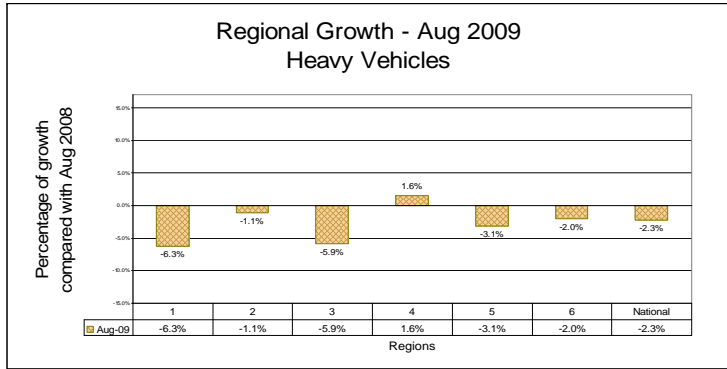
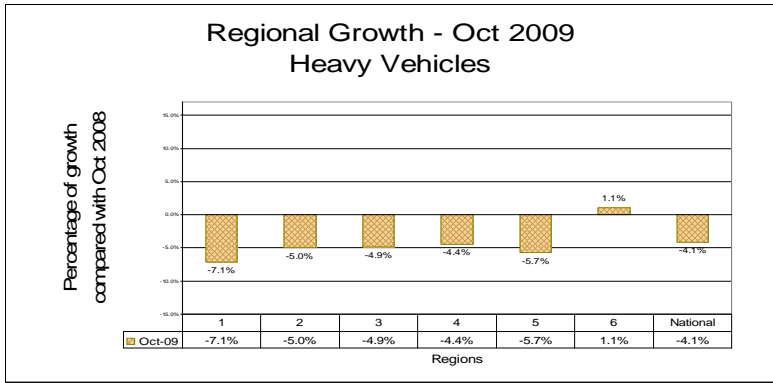
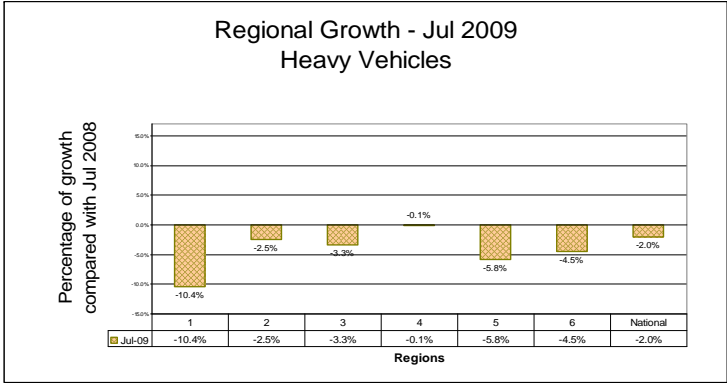
Regional Growth - Mar 2009  
Heavy Vehicles

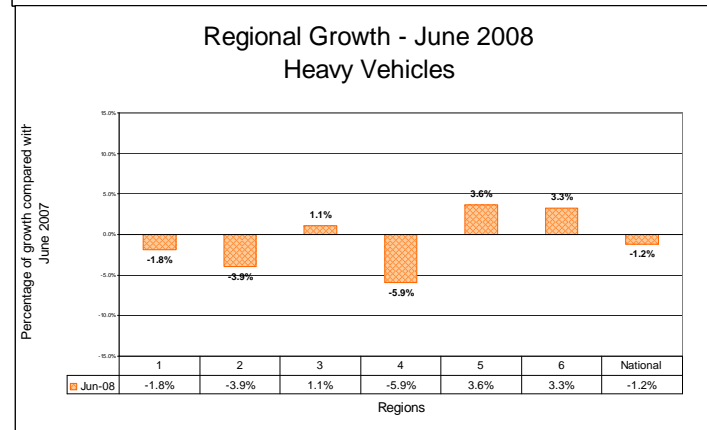
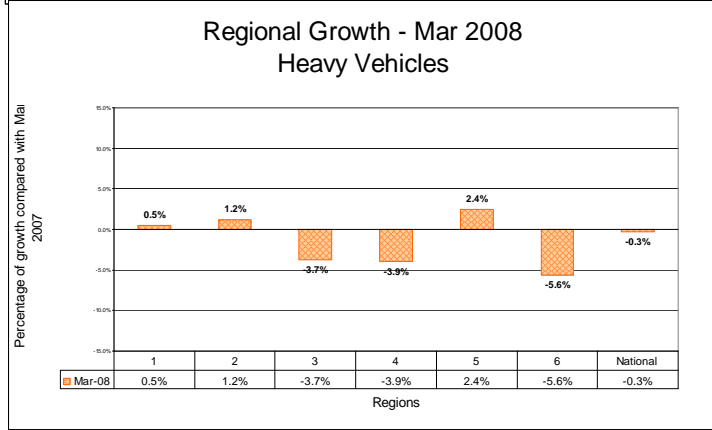
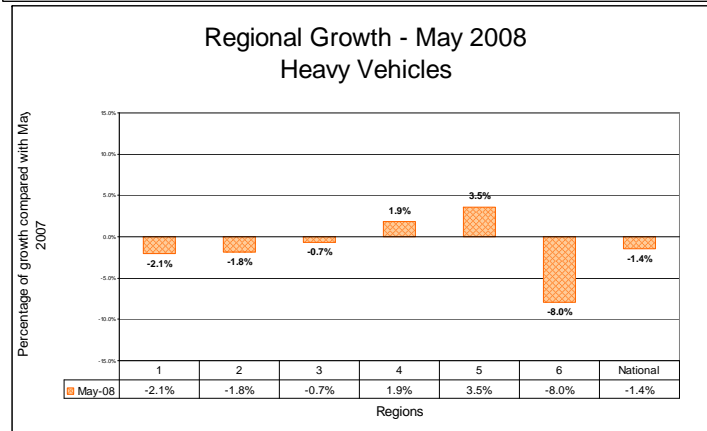
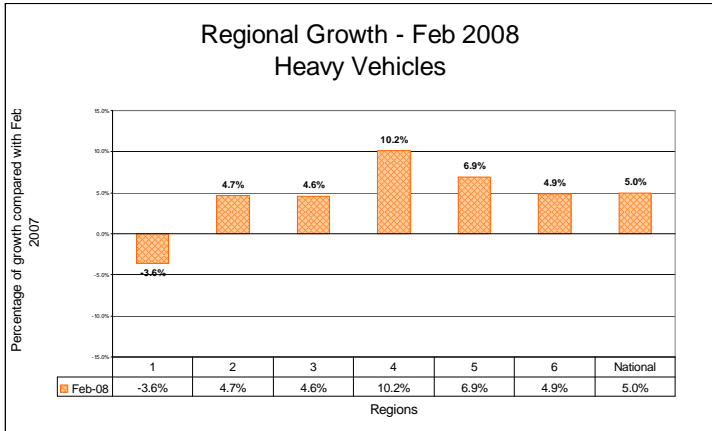
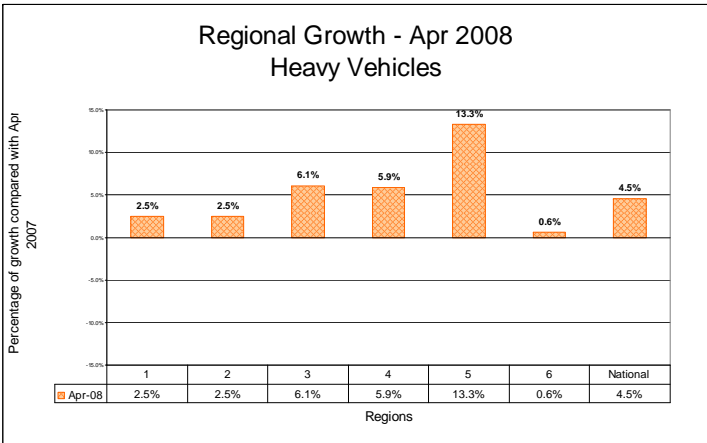
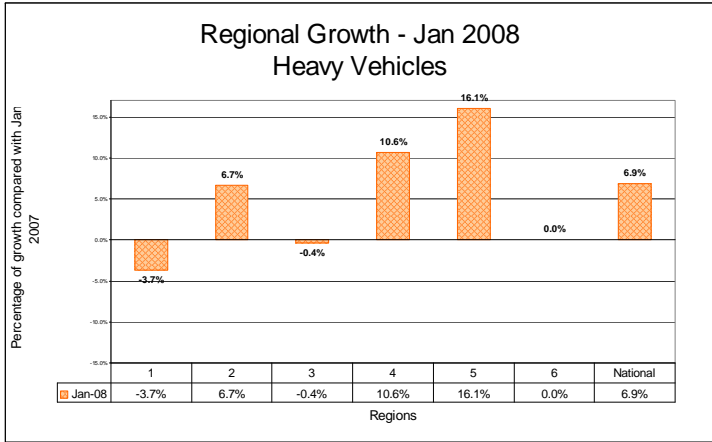


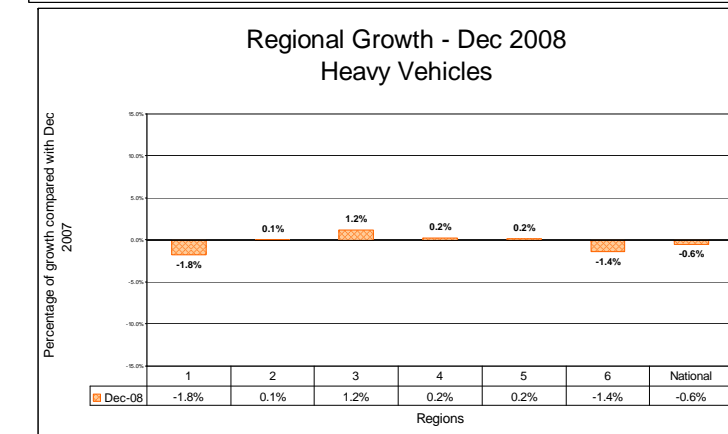
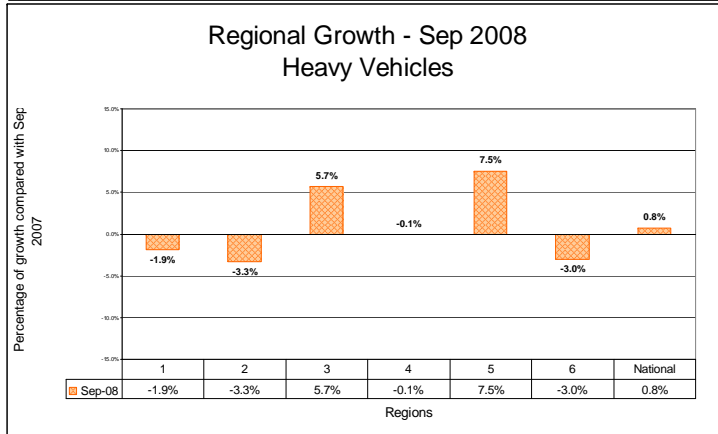
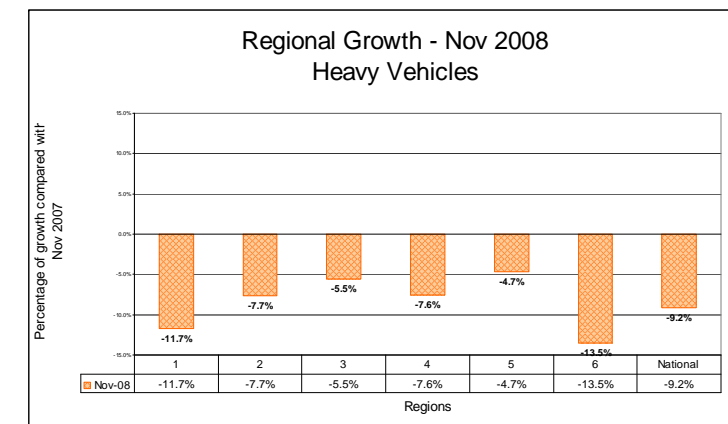
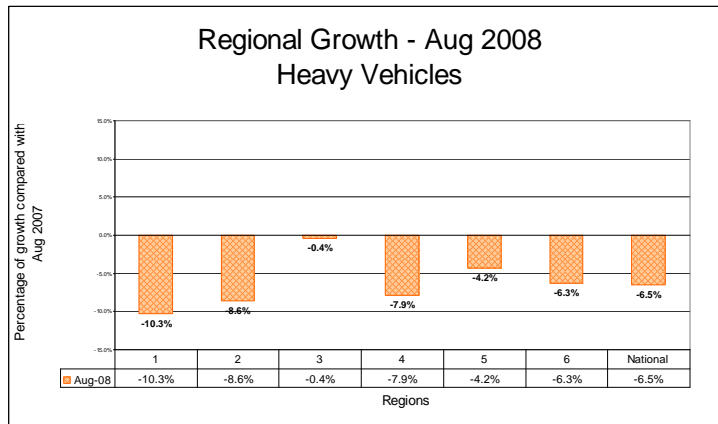
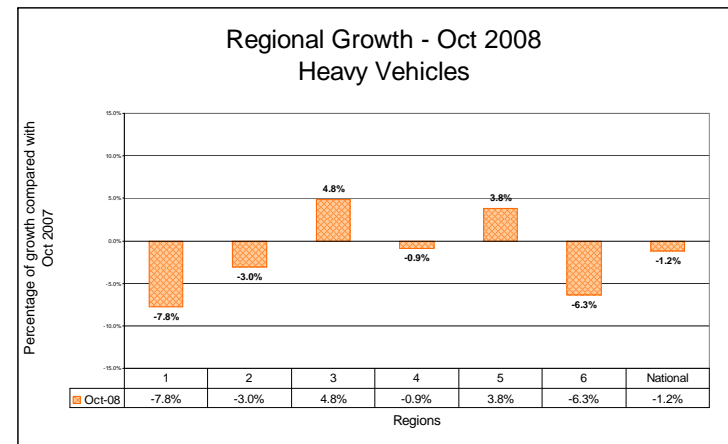
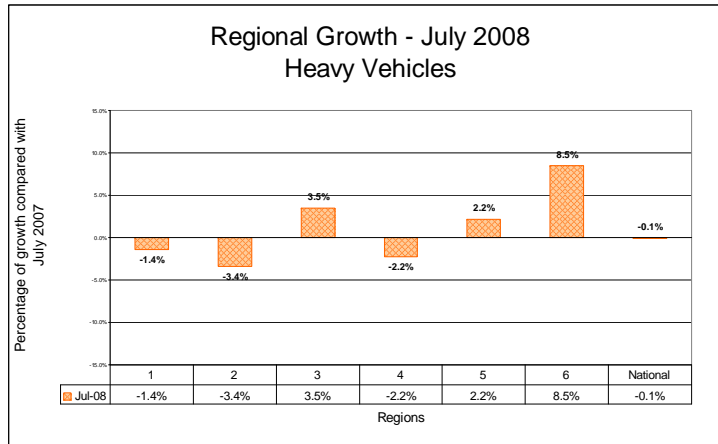
Regional Growth - Jun 2009  
Heavy Vehicles

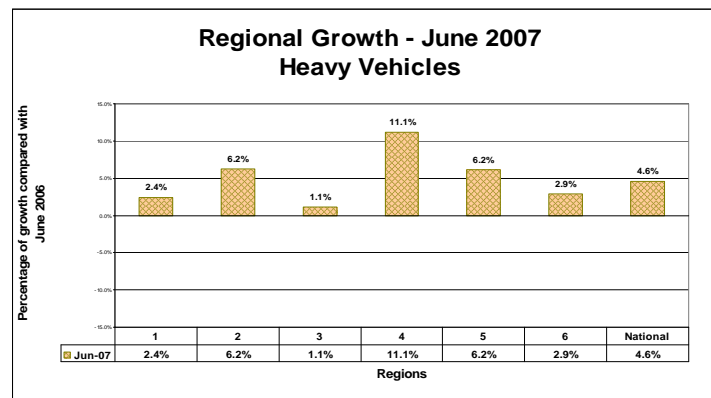
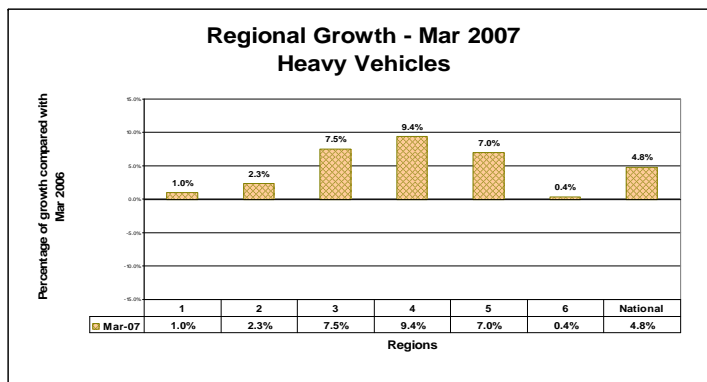
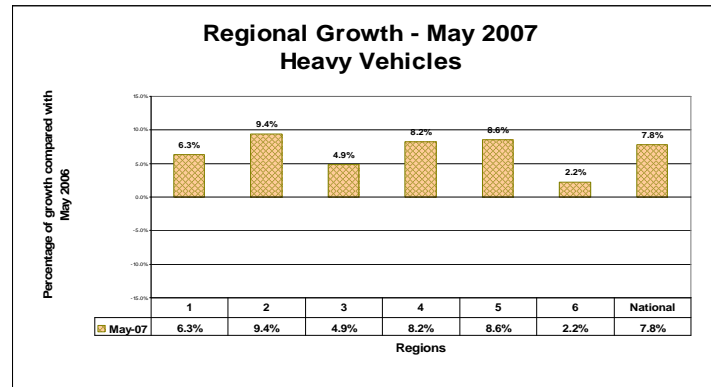
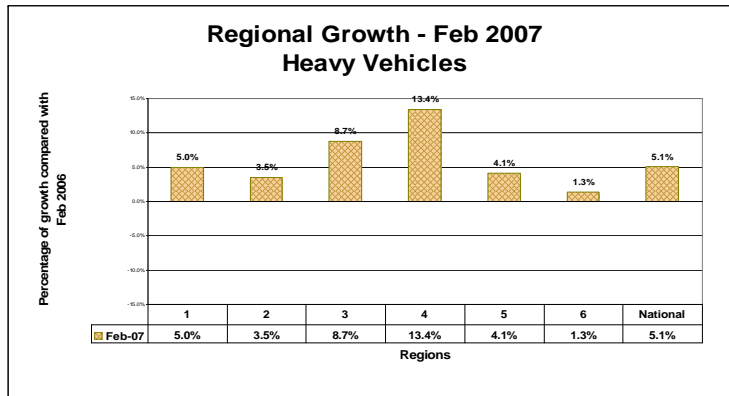
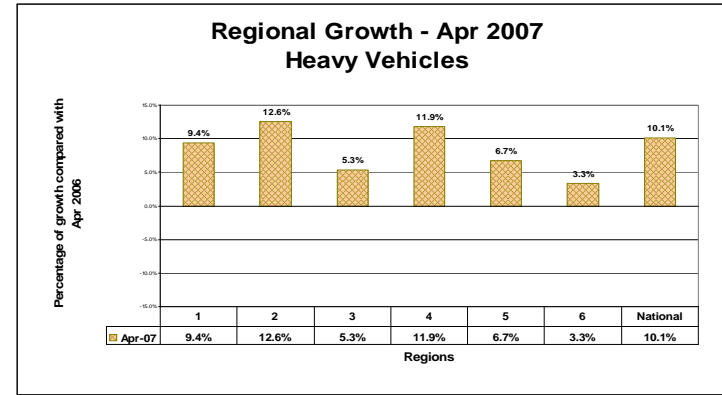
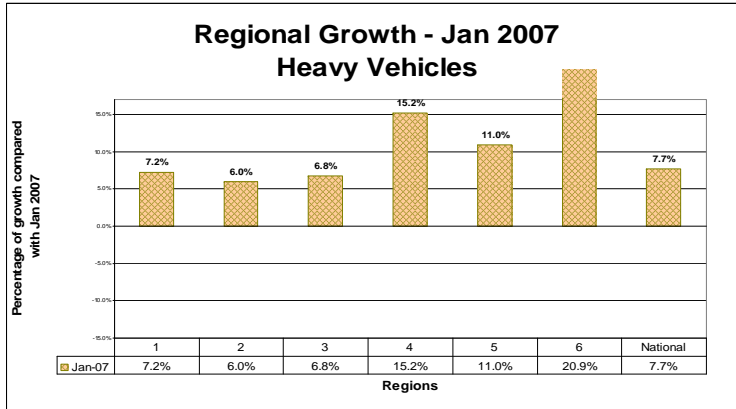




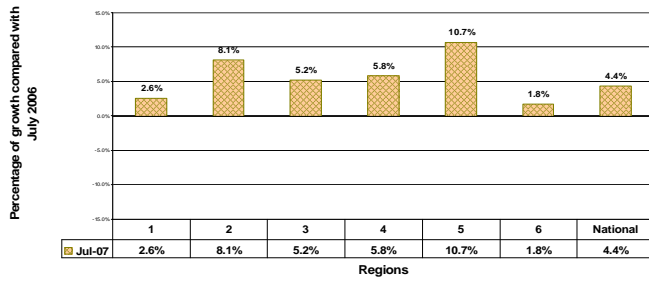




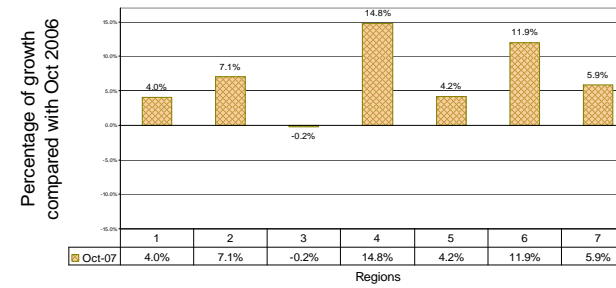




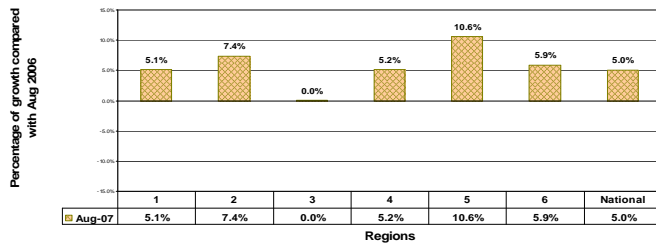
### Regional Growth - July 2007 Heavy Vehicles



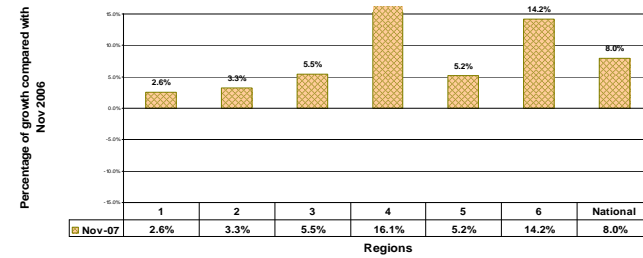
### Regional Growth - Oct 2007 Heavy Vehicles



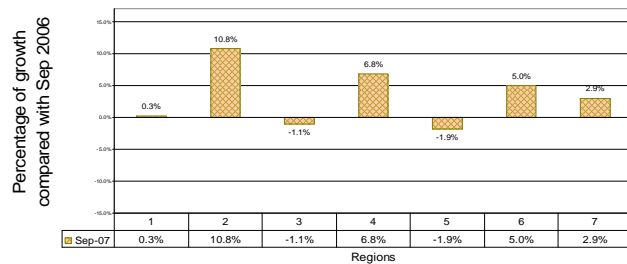
### Regional Growth - Aug 2007 Heavy Vehicles



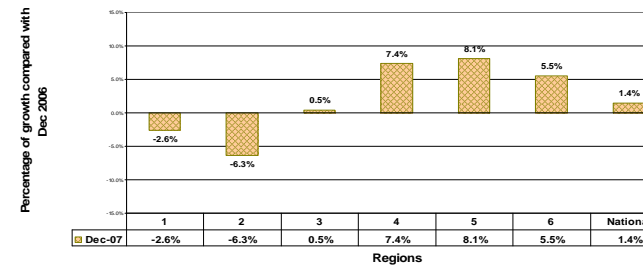
### Regional Growth - Nov 2007 Heavy Vehicles



### Regional Growth - Sep 2007 Heavy Vehicles



### Regional Growth - Dec 2007 Heavy Vehicles



## Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
1	ID:01N00212	KAWAKAWA	6891	7464	6603	6302	6472	5480	5205	5419	5241	5365	6123	6245	7049
1	ID:01000029	Sth of Takou Bay Rd	3744	5381	4080	3729	4037			3027	3045	3235		3540	3927
1	ID:01N00274	Nth of Maungakaramea Rd				14461	14893			13055	12650			13959	14688
1	ID:01200220	East of Brynderwyn Brq 161	2830		3062		2962						2665	2847	2900
1	ID:01N00130	Nth of Ramseys Brq					1232				916	1032	1068	1121	1293
1	ID:01N00265	Sth of Selwyn Avenue			22219	22761				20620					
1	ID:01700006	HATFIELDS BEACH	20581	19605	6876	6279	6076	5504	5058	5296	5227	5250	5819	5827	6733
1	ID:01N10459	DRURY - SB	30297	28681	29162	29117	28896	27503	26292	27896	27036	27417			31856
1	ID:01N20459	DRURY - NB	29186	30036	29336	29520	29247	27508	27008	28085	27273	27320			30272
1	ID:01N00339	WELLSFORD	10436	11660							7663	7655	9084	8871	10198
1	ID:01N10440	PANAMA Rd - SB	61517	57398	61880	63111	60607	60129	58263	60209	59576	62168	60956	62539	60908
1	ID:01N20440	PANAMA RD - NB	57983	56151	58456	59312	57379	56825	55650	57546	57434	59628	58768	59448	57442
1	ID:01N10474	BOMBAY - SB	19788	19226	18252	17926	18572	16532	15594	16786	16016	16437	17991		17882
1	ID:01N20474	BOMBAY - NB	18224	20285	18148	18245	18615	16171	16022	16705	16067	16165	17824		18367
1	ID:01N00424	Auckland Harbour Brq - Centre Span	80475	73761	77309	78775	81280	84221	76340	83792	82350	83580	83103	85173	83000
1	ID:01N10424	Auckland Harbour Brq - Left Clip-on	41939	38414	42550	43523	41312	38693	38479	39197	36782	38389	38020	38714	32275
1	ID:01N20424	Auckland Harbour Brq - Right Clip-on	29794	30641	38432	38935	36379	35896	38224	36471	38506	40429	40738	42678	42414
2	ID:00200002	MAUNGATAWHIRI	14799	16390	13621	13118	13693	11943	10976	11883	11138	11418	13193	12693	14430
2	ID:25A00011	NEEVESVILLE	4462	5925	3748	3346	3584	2598	2275	2503	2484	2567	3346	3101	4145
2	ID:02700011	KAIHERE	4307	4349	4219	4216	4640	3838	3645	3991	3760	3832	4215	4186	4676
2	ID:01N00526	TAUPIRI	21629	20987	20924	21447	21618	19794	19493	20987		19780	20927	20934	21832
2	ID:01N00620	LICHFIELD	9490	9475	9209	9202	9421	8384	8185	8663	8271	8689		9215	9139
2	ID:00300085	TE KUITI	4342	4324	3941	4061	4342	3691	3796	4372	4063	4047	4276	3921	4590
2	ID:03200074	West of Taupo	856	956	875	779	879	646	628	752	711	739	787	847	832
2	ID:01N00580	KARAPIRO	15751	15971	15333	15230	15465	13839	12699	13687	13234	13898	14869	14950	15705
2	ID:00200091	WAIHI	9252	9800	8025	7734	7876	6833	6507	6788	6509	6887	7608	7366	8656
2	ID:01N00729	HALLETTS BAY	6265	7050	5966	5363	5954	6096	4389	5530	4969	5005	5276	5350	5646
2	ID:00200141	TE PUNA	17171	16941	16374	16278	16239	15699	14666	15025	14810	14938	15733	16531	17635
2	ID:03010149	TE NGA	17823	17317	17704	17655	17209	16801	16464	16332	16606	16608	17083	17480	17846
2	ID:03020149	East end of Puarenga Brq (Dec)	17064	17418	17693	17539	17027	16693	16516	16369	16566	16565	17079	17489	17545
2	ID:00200204	OHINEPANEA	5297	5562	4899	4708	5035	4548	4260	4368	4302	4398	4895	4880	5469
2	ID:03000188	LAKE ROTOMA	3257	3615	3075	2887	3023	2702	2579	2670	2569	2706	2937	2969	3356
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	4407	4976	4392	4137	4332	4488	4204	4342	5096	5156	4619	4207	4388
2	ID:00500034	TARUKENGA	5554	5837	5460	5133	5677	4834	4686	4964	4710	4928	5375	5155	5623
2	ID:02900034	KAIMAI	10186	10167	9402	9361	9469	8611	8352	8501	8421	8649	9421	9211	10106
2	ID:00500057	WAIPA	7673	8134	7851	7464	7794	8429	6414	6970	6575	6685	7187	7363	7893
3	ID:00200428	ORMOND	2780	3278	2569	2509	2467	2220	2171	2151	2134	2138	2398	2436	2529
3	ID:00200627	TANGOIO	2348	2539	2234	2162	2309	1914	1818	1825	1784	1797	2039	1989	2298
3	ID:00500230	TE POHUE	3167	3506	3261	3136	3214	2457	2169	2558	2368	2463		2808	2650
3	ID:05000010	Nth of Tutaekuri River	21094	19958	21252	22081	21536	20837	20017	20367	19941	20571	20539	22120	22585
3	ID:00300171	TONGAPORUTU Brq	2406	2606	2240	2312	2514	1807	1817	1912	1739	1831	2193	2078	2448
3	ID:00300267	TARIKI	8947	8121	6690	6976	8914				8187	8188	8687	9154	9401
3	ID:00300370	WAITOTARA	3666	3581	3552	3566	3594	3138	3076	3267	3097	3168	3509	3534	3800
3	ID:04500101	OHAWE BEACH Rd	4813	4612	4606	4485	4432		4003	4032	4055	4212	4360	4311	4327
3	ID:01N00930	SANSON	12760	12776	12666	12324	12789	11313	11005		11393	11339	12338	12361	13330

## Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
3	ID:01N00988	OHAU	16202	16317	15761	15318	13220	14122	13477	14381	14025	14164	15278	15257	16401
3	ID:00200755	NORSEWOOD	4515	4803	4492	4341	4370	3644	3316	3520	3376	3519	4111	3975	4536
3	ID:00300489	MANAWATU GORGE	7363	7468	7164	7153	7184	6465	6088	6336	6155	6194	6756	6809	7408
3	ID:00400133	HOROPITO	1945	2112	1916	1776	1927	1505	1857	2403	2336	2168	2202	1748	2013
3	ID:00400226	UPOKONGARO	2125	2060		1962	2085		1753	1902	1820	1805	2061	2018	2179
3	ID:01N00827	HIHITAHU	5211	5945	5172	4582	5226	3891	3791	4505	4125			4596	4926
4	ID:01N11068	NGAURANGA - SB	21638	20438	22933	22863	22103	22141	21890	22444	22582	22148	22729	23446	22279
4	ID:00200895	CLAREVILLE	11010	10514	10787	10798	10633	9983	9841	9931	10175	10077	10284	10861	11143
4	ID:00200937	RIMUTAKA	6021	6364	6102	5965	6118	4938	4676	4980	5044	5051	5423	5749	6143
4	ID:01N01036	PUKERUA BAY	24285	23718	24055	23653	23974	22362	21667	22750	22439	22341	23670	24151	24988
4	ID:01N21068	NGAURANGA - NB	21579	19852	22820	22946	22085	22414	21932	22320	22522			23432	22251
4	ID:05800009	Pauatahanui East	14488	13432	14232	14563	14041	13447	13331	13461	13701	13451	13434	14405	13461
4	ID:00210979	NGAURANGA SH2 - SB	20802	19058	21934	21937	20661	21095	20669	21497	21130	21334	21735	22333	21235
4	ID:00220979	NGAURANGA SH2 - NB	20489	18741	21648	21925	21107	21480	20910	21465	21370			22271	21112
4	ID:00600122	STOKE	21755	21579	21450	20881	20322	19974	19547	19694	19690	20062	20761	22123	22645
4	ID:00600232	MURCHISON	2264	2736	2308	2026	2027	1515		1292	1283		1737	1856	2086
4	ID:00600100	HIRA	3638	4031	3821	3527	3356	2947	2736	2769	2787	2884	3169	3374	3699
4	ID:06000040	Riwaka	5468	6737	5187	4319	4417	3137	2633	2555	2669	2804	3345	3844	4263
4	ID:01S00037	Blenheim	4321	4657	4478	4150	4449	3349	3292	3510	3284	3241	3590	3865	4029
5	ID:01S00389	DUNSANDEL	10686	10636	10636	10473	10488	9150	8794	9592	9127	9363	10232	10478	10955
5	ID:01S00505	EVANS St Timaru	22330	21221	21155	20900	20966	19884	18936	19519	19000	19374	20447	21138	22004
5	ID:07300064	Springfield	1800	2005	2303	1900	1872	1274	1207	1705	1605	1551	1689	1634	1782
5	ID:07400006	SEMI Obsolete - Cranford St	21073	19310	21396	21649									
5	ID:01S00144	KAIKOURA	3039	3519	3127	2662	2882	2049	1818	2002	1866	1993	2470	2683	2837
5	ID:01S00522	ST ANDREWS	6316	6098	6201	6024	6174	5421	4905	5384	5008	5202	5737	5839	6169
5	ID:00700108	LEWIS PASS	1471	1799	1416	1266	1382	944	824	954	869	973	1183	1190	1375
5	ID:07409005	QE II Drive East Of Main Nth Rd	20067	17767	18993	19244		18131		17944	18255	19021	18943	19383	19571
5	ID:00600454	CHESTERFIELD	3062	3174	3256	3861	2867	2461	2276	2381	2330	2550	2844	3012	3180
5	ID:00700239	AHAURA	1296	1333	1392	1665	1319	1184	1115	1168	1107	1185	1253	1291	1343
5	ID:00600398	PUNAKAIKI	1183	1372	1327	1452	1018	803	671	704	700	813	1020	1080	1207
6	ID:00800336	ALEXANDRA	2464	2756	2813	2267	2317	1855	1712	1796	1917	1952	2126	2054	2339
6	ID:01S10713	BURNSIDE - SB	15759	13984	15870	15803		15625	15051	15228	15223	15074	15551	16185	15886
6	ID:01S20713	BURNSIDE - NB	10681	9627	10823	10762	10308	10676	10459	10496	10350	10331	10623	11025	10763
6	ID:01S50713	BURNSIDE - NB On Ramp	2497	2262	2486	2502	2427	2462	2412	2457	2483	2468	2509	2618	2610
6	ID:01S60713	BURNSIDE - SB Off Ramp	3027	2723	3092	3092	2945	3024	2955	2978	3031	3076	3078	3217	3100
6	ID:01S40713	BURNSIDE - NB Off Ramp	3326	2973	3380	3419	3261	3850	3305	3260	3287	3231	3315	3471	3290
6	ID:01S40714	Burnside - NB Off Ramp	2140	1954	2192	2179	2092	2084	2065	2032	2108	2128	2158	2264	2203
6	ID:01S00765	MILTON	6633	6516	6850	6608		5734	5445	5578	5505	5821			6773
6	ID:01S00921	INVERCARGILL	11826	10560	12147	12294	11509	11903	11640	11525	11941	11655	11801	12364	11630
6	ID:00601147	WINTON	4948	4509	4882	4792	4656	4582	4346	4310	4236	4413	4675	5004	5109
6	ID:01S00854	GORE	4323	4083	4416	4137	4158	3814	3462	3580	3521	3577	3894	4101	4133

## Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
1	ID:01N00212	KAWAKAWA	676	728	696	703	689	603	551	552	541	603	665	750	735
1	ID:01000029	Sth of Takou Bay Rd	296	382	304	289	322			219	228	261		290	295
1	ID:01N00274	Nth of Maungakaramea Rd				1601	1503			1305	1314			1509	1635
1	ID:01200220	East of Brynderwyn Brq 161	318		286		233						292	325	285
1	ID:01N00130	Nth of Ramseys Brq					149				131	165	161	163	159
1	ID:01N00265	Sth of Selwyn Avenue			994	1015				812					
1	ID:01700006	HATFIELDS BEACH	1467	1247	363	327	293	278	261	260	246		249	263	285
1	ID:01N10459	DRURY - SB	2447	2278	2486	2539	2394	2250	2184	2149	2083	2251			2379
1	ID:01N20459	DRURY - NB	2282	2229	2392	2427	2303	2164	2104	2061	1987	2117			2229
1	ID:01N00339	WELLSFORD	989	1064							778	837	927	973	996
1	ID:01N10474	BOMBAY - SB	1992	1834	2006	2017	1949	1806	1741	1718	1656	1777	1881		2199
1	ID:01N20474	BOMBAY - NB	1885	1884	2001	2006	1925	1784	1742	1698	1645	1742	1838		2329
2	ID:00200002	MAUNGATAWHIRI	1605	1593	1631	1696	1628	1542	1490	1480	1402	1501	1535	1689	1637
2	ID:25A00011	NEEVESVILLE	371	447	301	279	303	240	215	210	214	241	305	286	352
2	ID:02700011	KAIHERE	764	731	806	892	803	755	738	721	727	790	785	885	854
2	ID:01N00526	TAUPIRI	2145	1975	2151	2150	2058	1915	1897	1821		1953	2034	2224	2102
2	ID:01N00620	LICHFIELD	1365	1289	1407	1497	1413	1270	1207	1204	1159	1349		1462	1492
2	ID:00300085	TE KUITI	689	636	683	692	691	627	616	588	562	619	685	686	648
2	ID:03200074	West of Taupo	111	103	138	140	146	123	121	120	108	121	126	134	106
2	ID:01N00580	KARAPIRO	2127	1867	1992	1974	1569	1361	1257	1186	1271	1369	1505	1548	1584
2	ID:00200091	WAIHI	789	855	873	855	846	790	734	735	700	804	803	872	859
2	ID:01N00729	HALLETTS BAY	823	821	847	862	798	979	714	725	697	733	707	820	717
2	ID:00200141	TE PUNA	1099	1084	1155	1216	1213	1201	987	1024	1019	1123	1126	1241	1184
2	ID:03010149	TE NGA	890	907	970	1352	1213	872	890	817	924	962	990	1052	982
2	ID:03020149	East end of Puarenqa Brq (Dec)	874	941	1056	1149	1036	920	913	839	974	1011	1023	1095	1021
2	ID:00200204	OHINEPANEA	695	693	711	702	791	705	625	693	726	727	751	814	769
2	ID:03000188	LAKE ROTOMA	324	345	351	346	324	304	291	278	311	348	346	372	351
2	ID:03300030	Sth of Maungaranqi Rd Paengaroa	529	535	570	568	585	580	565	561	574	600	577	593	617
2	ID:00500034	TARUKENGA	574	585	617	587	574	518	490	486	461	540	579	613	622
2	ID:02900034	KAIMAI	1312	1199	1237	1245	1208	1093	1015	984	990	1054	1139	1372	1196
2	ID:00500057	WAIPA	714	742	813	825	813	928	739	769	745	775	806	852	768
3	ID:00200428	ORMOND	245	309	268	339	257	224	215	186	188	190	205	227	217
3	ID:00200627	TANGOIO	337	377	401	424	402	380	357	331	305	306	319	353	353
3	ID:00500230	TE POHUE	458	480	515	561	544	477	427	447	438	450		533	471
3	ID:05000010	Nth of Tutaeakuri River	1271	1231	1366	1486	1527	1437	1218	1200	1103	1215	1171	1390	1486
3	ID:00300171	TONGAPORUTU Brq	384	386	392	386	381	327	331	322	310	346	402	415	362
3	ID:00300267	TARIKI	896	834	775	811	997				743	863	967	1057	978
3	ID:00300370	WAITOTARA	506	461	474	501	492	453	437	418	458	452	554	607	538
3	ID:04500101	OHAWE BEACH Rd	533	490	447	448	418		231	225	354	501	553	563	516
3	ID:01N00930	SANSON	1482	1401	1484	1475	1428	1311	1282		1270	1289	1423	1578	1518
3	ID:01N00988	OHAU	1496	1429	1515	1534	1233	1371	1337	1367	1329	1386	1444	1565	1499
3	ID:00200755	NORSEWOOD	628	698	691	685	640	545	498	481	464	520	571	627	594
3	ID:00300489	MANAWATU GORGE	829	875	887	869	869	772	715	704	674	696	759	843	799
3	ID:00400133	HOROPITO	297	321	344	323	309	284	285	292	260	263	307	309	309
3	ID:00400226	UPOKONGARO	161	158		172	192		142	155	149	146	173	188	168



## Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
3	ID:01N00827	HIHITAHU	897	897	925	923	901	813	776	801	750			888	792
4	ID:01N11068	NGAURANGA - SB	745	716	785	784	818	756	764	759	764	776	770	799	764
4	ID:00200895	CLAREVILLE	593	587	638	642	608	490	467	453	504	569	551	617	570
4	ID:00200937	RIMUTAKA	315	323	337	350	456	286	263	271	275	284	309	353	330
4	ID:01N01036	PUKERUA BAY	1528	1405	1556	1582	1520	1449	1448	1455	1411	1485	1570	1683	1568
4	ID:01N21068	NGAURANGA - NB	693	718	718	731	689	687	668	673	732			760	738
4	ID:05800009	Pauatahanui East	449	420	442	470	445	388	400	404	408	411	385	462	704
4	ID:00210979	NGAURANGA SH2 - SB	676	640	719	726	685	697	694	717	707	721	727	767	724
4	ID:00220979	NGAURANGA SH2 - NB	655	619	692	697	659	680	668	689	675			732	697
4	ID:00600122	STOKE	1194	1236	1308	1365	1302	1219	1129	1120	1097	1151	1216	1281	1176
4	ID:00600232	MURCHISON	312	379	334	314	282	229		189	212		263	295	283
4	ID:00600100	HIRA	449	489	505	510	483	396	411	416	430	458	436	477	471
4	ID:06000040	Riwaka	328	385	336	306	318	223	153	146	161	190	216	263	265
4	ID:01S00037	Blenheim	558	583	594	600	709	499	452	450	454	488	528	566	606
5	ID:01S00389	DUNSANDEL	1537	1507	1549	1479	1425	1229	1123	1145	1170	1331	1453	1531	1498
5	ID:01S00505	EVANS St Timaru	1538	1476	1612	1578	1459	1301	1181	1158	1212	1382	1503	1592	1498
5	ID:07300064	Springfield	206	217	282	229	220	158	142	145	175	178	222	211	213
5	ID:07400006	SEMI Obsolete - Cranford St	428	411	450	477									
5	ID:01S00144	KAIKOURA	490	508	522	493	495	424	393	393	380	415	455	499	455
5	ID:01S00522	ST ANDREWS	940	930	989	935	908	780	665	684	741	840	920	948	931
5	ID:00700108	LEWIS PASS	211	258	206	201	192	154	138	150	150	163	182	196	195
5	ID:07409005	QE II Drive East Of Main Nth Rd	600	538	563	578		491		493	480	552	551	567	521
5	ID:00600454	CHESTERFIELD	343	349	370	403	293	233	190	199	209	305	368	383	354
5	ID:00700239	AHAURA	175	186	200	240	184	174	155	156	147	180	193	207	195
5	ID:00600398	PUNAKAIKI	116	122	134	150	99	87	59	59	68	95	119	132	124
6	ID:00800336	ALEXANDRA	235	270	270	212	218	175	153	154	166	174	191	186	211
6	ID:01S10713	BURNSIDE - SB	852	800	628	745		576	723	722	727	772	811	910	891
6	ID:01S20713	BURNSIDE - NB	585	560	621	645	597	536		634	620	670	698	735	699
6	ID:01S50713	BURNSIDE - NB On Ramp	108	104	112	116	113	109	102	106	106	105	105	113	107
6	ID:01S60713	BURNSIDE - SB Off Ramp	187	180	197	202	190	196	187	187	191	194	197	203	196
6	ID:01S40713	BURNSIDE - NB Off Ramp	185	178	199	208	197	218	192	185	187	182	189	199	187
6	ID:01S40714	Burnside - NB Off Ramp	67	67	71	72	70	66	65	63	67	68	68	71	78
6	ID:01S00765	MILTON	857	804	908	888		714	579	559	578	696			821
6	ID:01S00921	INVERCARGILL	454	412	464	460	419	411	415	412	388	409	407	427	404
6	ID:00601147	WINTON	501	470	509	495	467	401	344	349	372	453	498	527	503
6	ID:01S00854	GORE	502	457	539	528	489	433	368	365	400	450	507	562	539