



Traffic Volumes Monthly Report December 2011

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Quality Assurance Statement

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Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	11/01/2012	First draft	Bernadette Bañez		
2	18/01/2012	Final	Gerald Wen	Philip Blagdon	

Overview

Summary

The purpose of this document is to report on the monthly changes in traffic volumes on the state highway. This report also covers annual state highway traffic trends for the period of 1989 to 2011.

In December 2011, compared with December 2010, the monthly average daily traffic (MADT) for all vehicles and heavy vehicles decreased by 3.1% and 4.7%, respectively.

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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. MADT is the statistical term used throughout this report.

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

Purpose

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

Sample coverage

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

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

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

Sources of variation in MADT

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

¹ Telemetry sites are continuously monitored 24/7.

Key Results

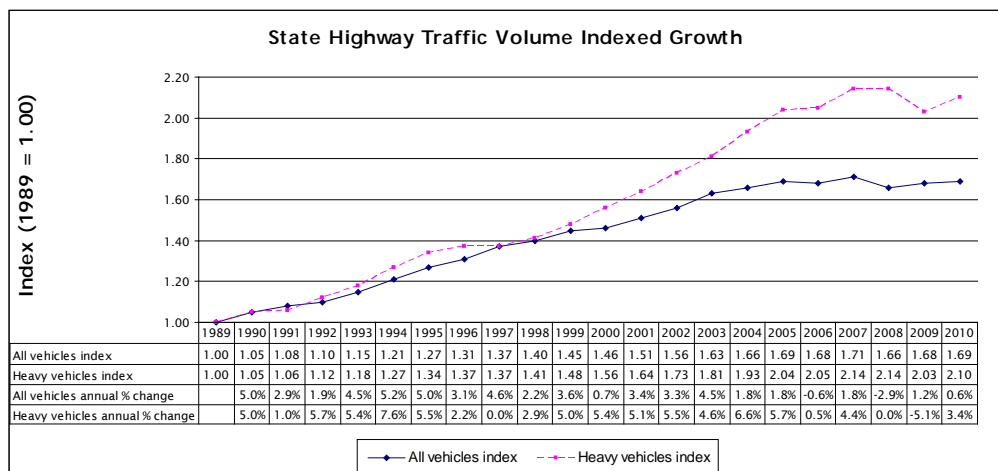
The State Highway Traffic Volume Indexed growth measures the change in traffic volume compared to 1989.

The process of 2011 traffic data validation is underway. This graph will be updated with 2011 data in the next month's report.

Overall

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

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



**Results:
Monthly
traffic at key
sites**

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

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

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) December-10	MADT (All Vehicles) December-11	% Change
Auckland harbour bridge (SH1)	Auckland	153818	149863	-3%
Greenwood (SH1)	Hamilton	22434	21894	-2%
Ngauranga Interchange (SH 1 and SH2 combined)	Wellington	90508	79449	-12%
DUNSANDEL (Alternative site)	Christchurch	10927	11121	2%
Burnside	Dunedin	25662	26188	2%

In December 2011, the MADT values for the site representing Christchurch and Dunedin indicated an increase while other 3 key sites in the north island showed decreases, compared to the same period in the previous year.

Please note:

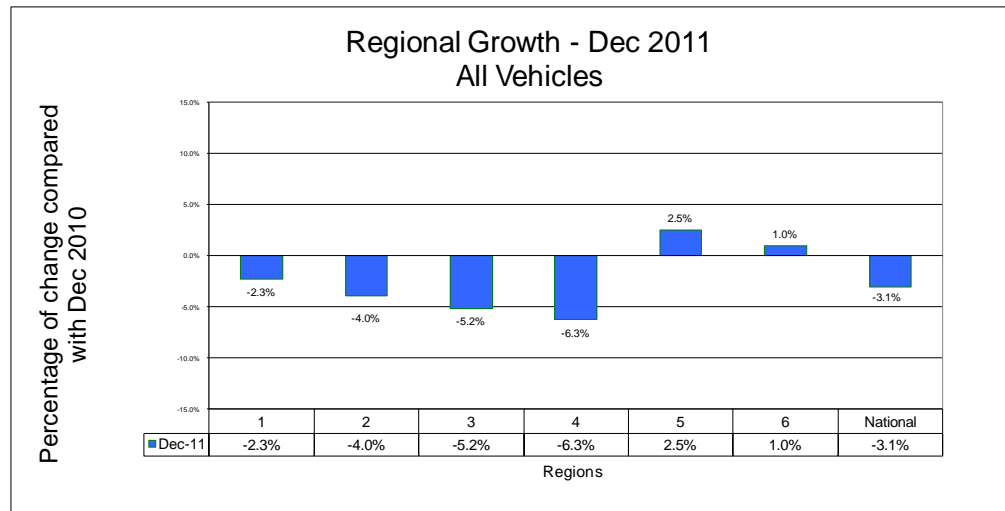
The required accuracy for the delivery of data at a single site is +/- 5%, so the above figures may be within this tolerance.

Results: All Vehicles

Regions

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

The graph below shows the percentage of difference compared with the same month last year. The MADT values here represent all vehicle types. It can be observed that regions 5 and 6 had an increase, while all other regions showed a decrease. Nationally, the MADT in December 2011 for all vehicles decreased by 3.1%, compared with December 2010.



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

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

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

More graphs

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

All sites

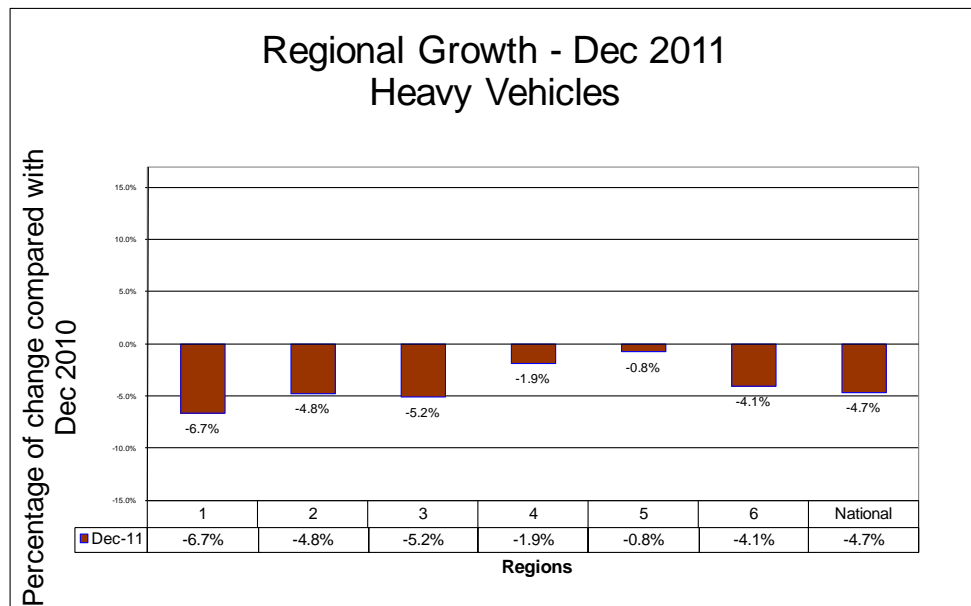
A table of MADT (all vehicles) values for all national telemetry sites is attached to this report.

Results: Heavy Vehicles

Regions

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

The graph below shows the percentage of difference compared with the same month last year. The MADT values here represent heavy vehicles only. It can be observed that MADT for heavy vehicles decreased in all the regions compared with the same month in the previous year. Nationally, the MADT in December 2011 for heavy vehicles had decreased by 4.7% compared with December 2010.



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

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

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

More graphs

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

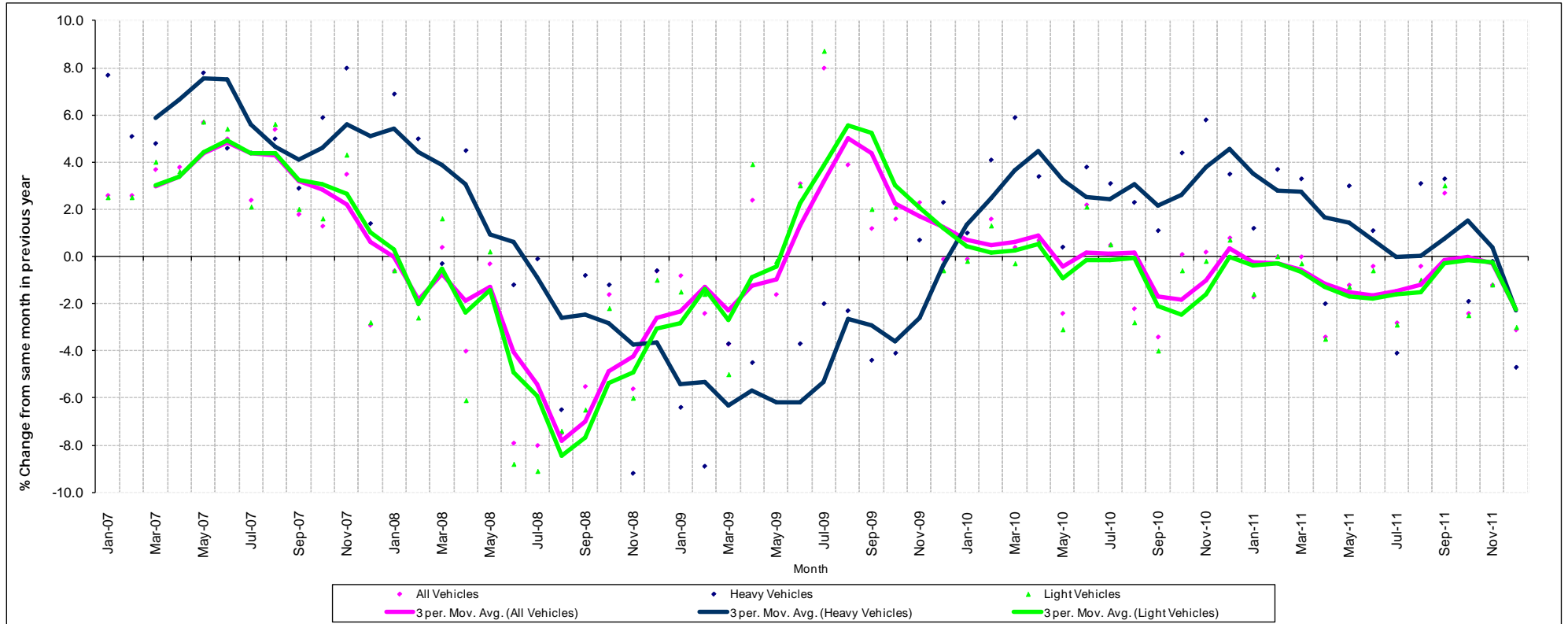
All sites

A table of MADT (heavy vehicles) values for all national telemetry sites for 2011 is attached to this report.

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

Summary of Percentage Change from Same Month in Previous Year

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



Year	2007			2008			2009			2010			2011		
Month	All Vehicles	Light Vehicles	Heavy Vehicles	All Vehicles	Light Vehicles	Heavy Vehicles	All Vehicles	Light Vehicles	Heavy Vehicles	All Vehicles	Light Vehicles	Heavy Vehicles	All Vehicles	Light Vehicles	Heavy Vehicles
January	2.6	2.5	7.7	-0.6	-0.6	6.9	-0.8	-1.5	-6.4	-0.1	-0.2	1.0	-1.7	-1.6	1.2
February	2.6	2.5	5.1	-2.0	-2.6	5.0	-2.4	-1.6	-8.9	1.6	1.3	4.1	0.0	0.0	3.7
March	3.7	4.0	4.8	0.4	1.6	-0.3	-3.7	-5.0	-3.7	0.4	-0.3	5.9	0.0	-0.3	3.3
April	3.8	3.6	10.1	-4.0	-6.1	4.5	2.4	3.9	-4.5	0.7	0.6	3.4	-3.4	-3.5	-2.0
May	5.7	5.7	7.8	-0.3	0.2	-1.4	-1.6	-0.2	-10.3	-2.4	-3.1	0.4	-1.2	-1.3	3
June	5.0	5.4	4.6	-7.9	-8.8	-1.2	3.1	3.0	-3.7	2.2	2.1	3.8	-0.4	-0.6	1.1
July	2.4	2.1	4.4	-8.0	-9.1	-0.1	8.0	8.7	-2.0	0.5	0.5	3.1	-2.8	-2.9	-4.1
August	5.4	5.6	5.0	-7.5	-7.4	-6.5	3.9	5.0	-2.3	-2.2	-2.8	2.3	-0.4	-1.0	3.1
September	1.8	2.0	2.9	-5.5	-6.5	-0.8	1.2	2.0	-4.4	-3.4	-4.0	1.1	2.7	3.0	3.3
October	1.3	1.6	5.9	-1.6	-2.2	-1.2	1.6	2.1	-4.1	0.1	-0.6	4.4	-2.4	-2.5	-1.9
November	3.5	4.3	8.0	-5.6	-6.0	-9.2	2.3	2.1	0.7	0.2	-0.2	5.8	-1.2	-1.2	-0.2
December	-2.9	-2.8	1.4	-0.6	-1.0	-0.6	-0.1	-0.6	2.3	0.8	0.7	3.5	-3.1	-3.0	-4.7

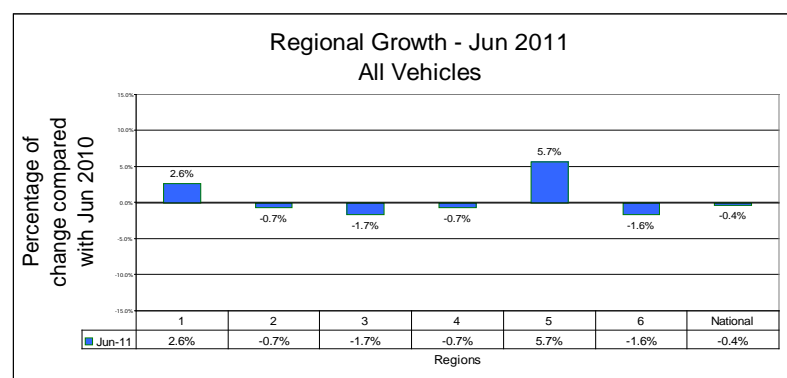
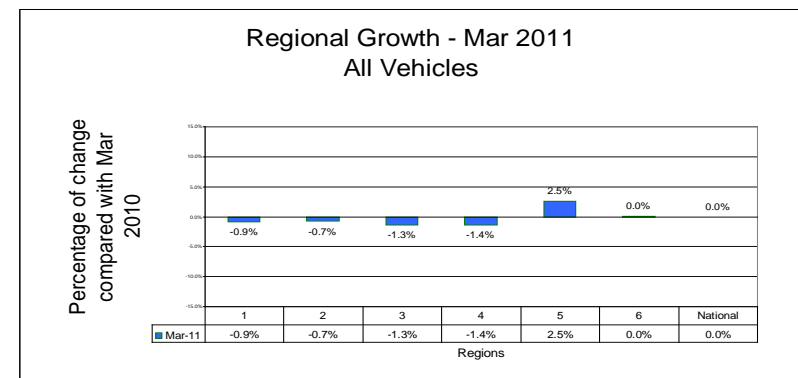
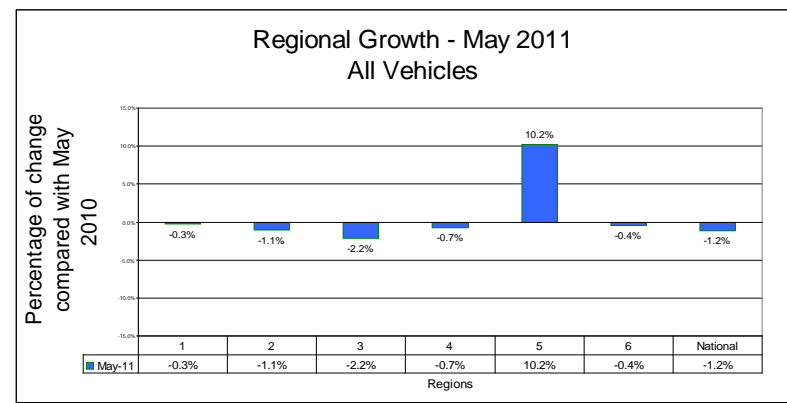
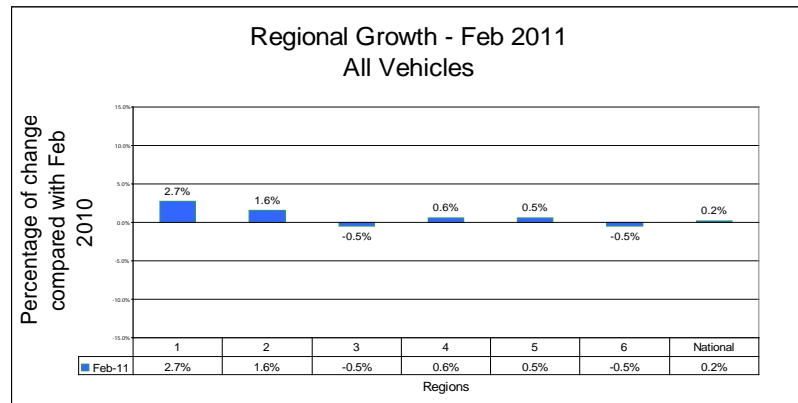
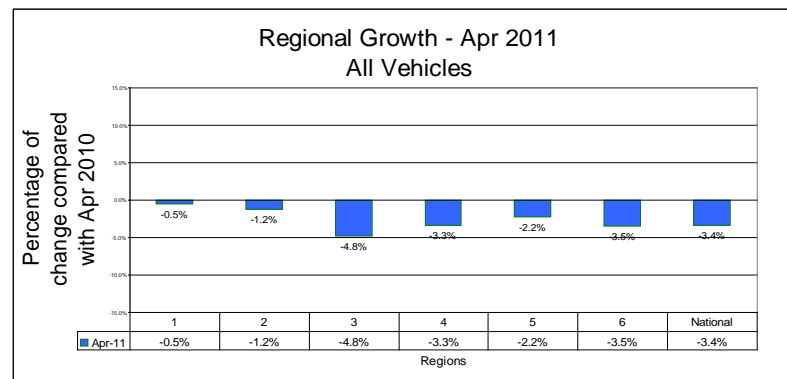
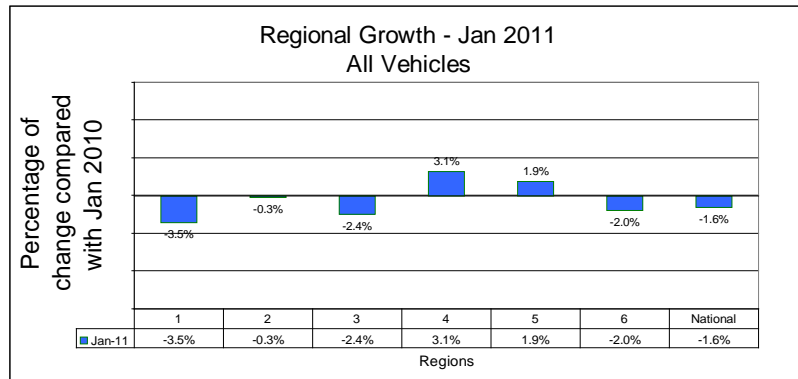
Appendices

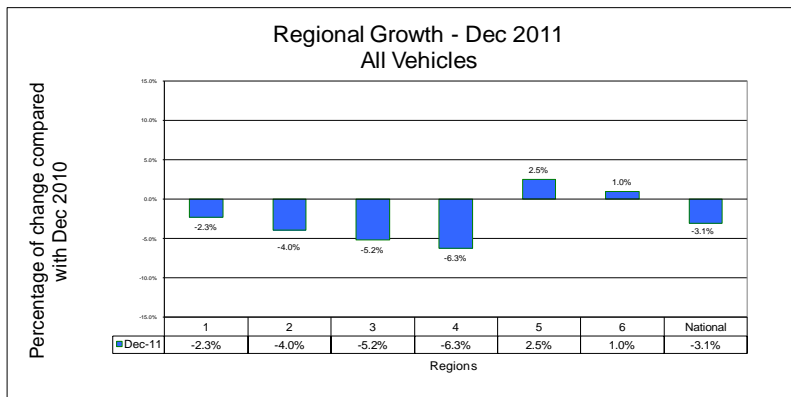
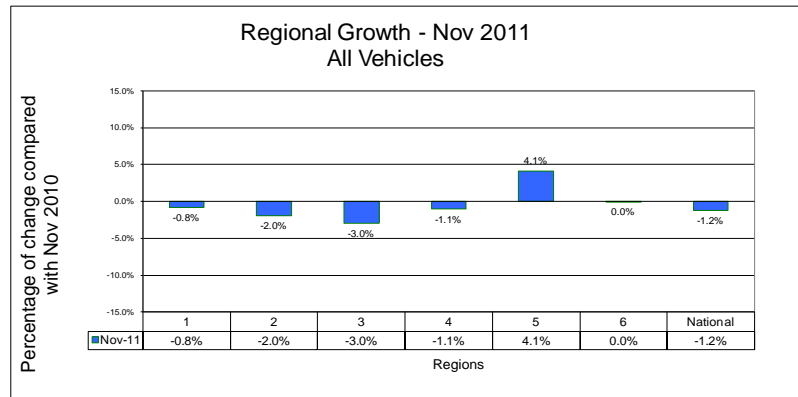
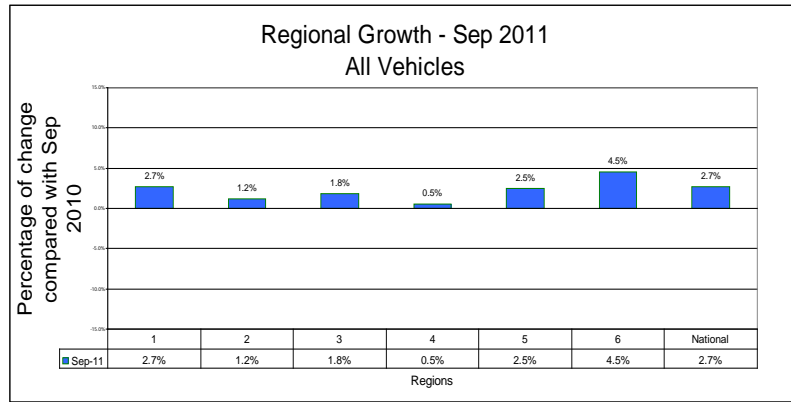
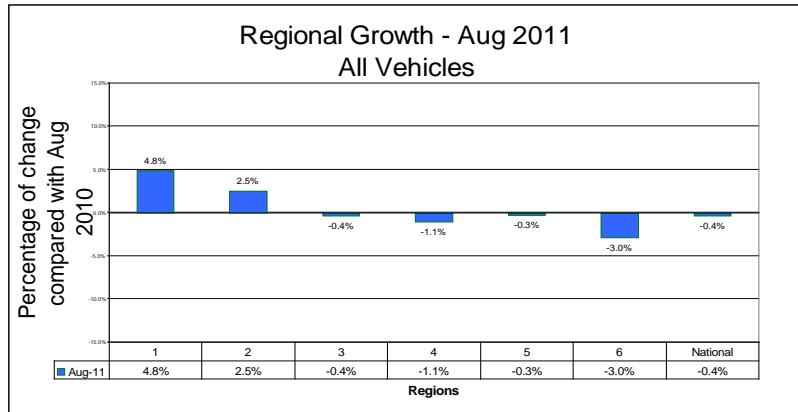
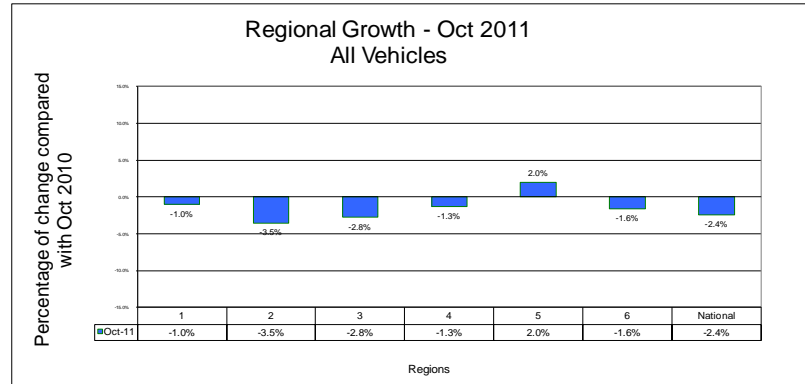
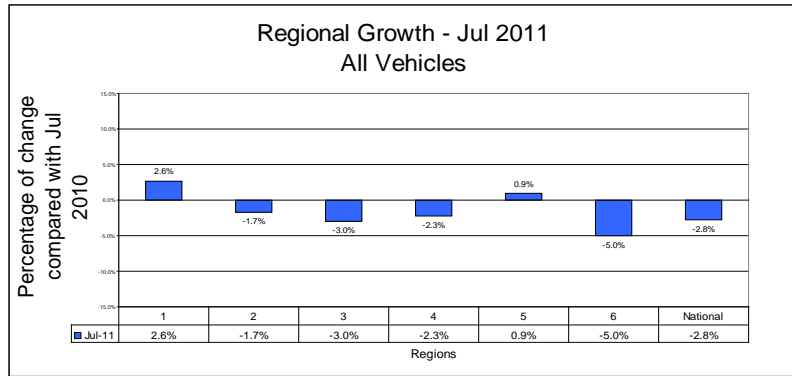
Current and Previous Years Growth Graphs: 2011, 2010, 2009 and 2008

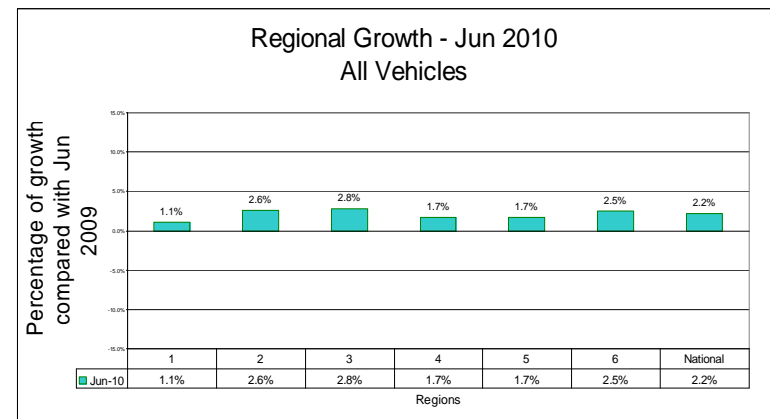
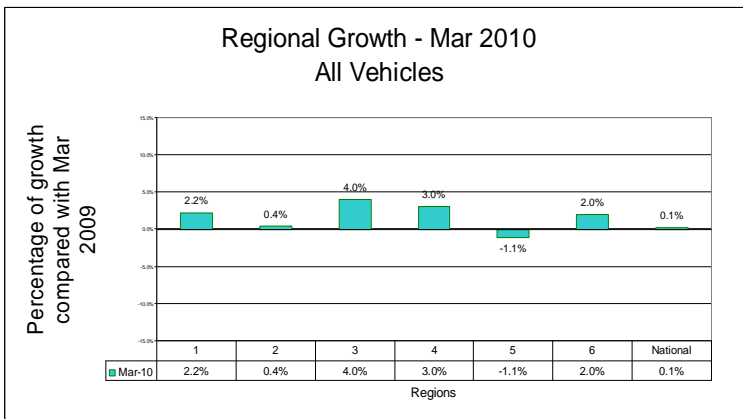
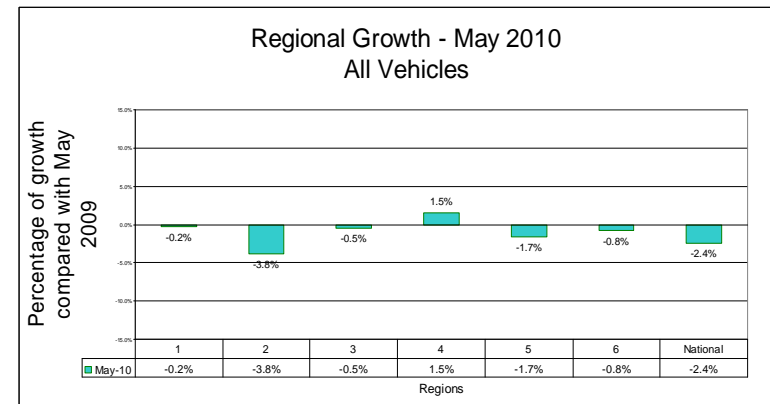
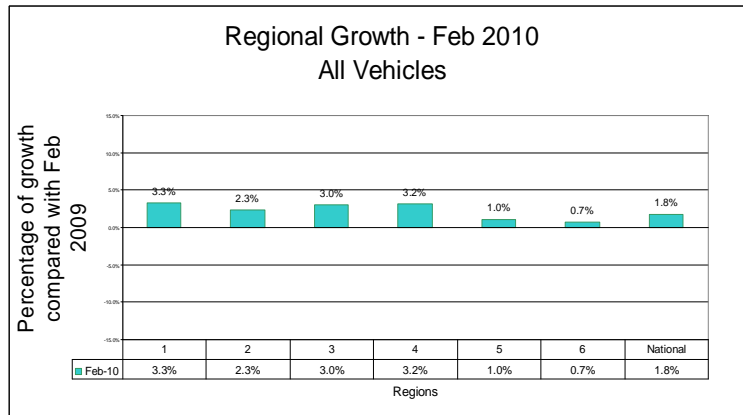
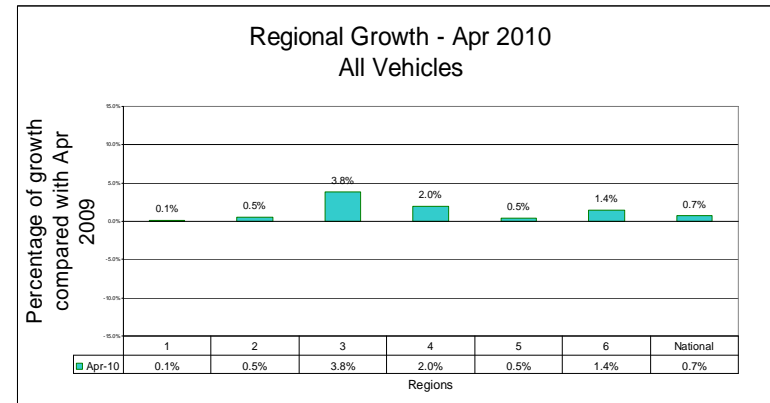
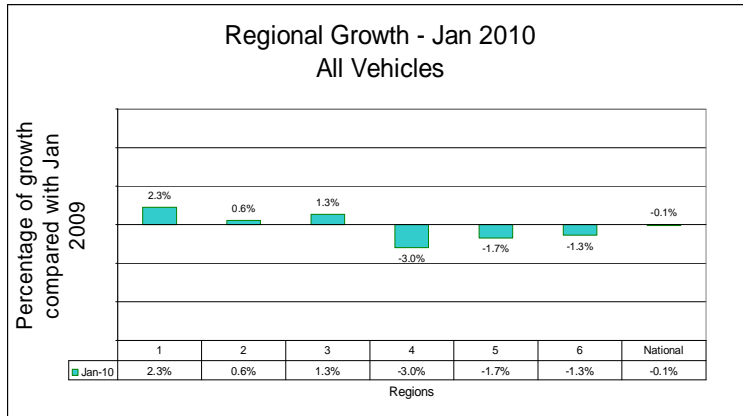
- All Vehicles
- Heavy Vehicles

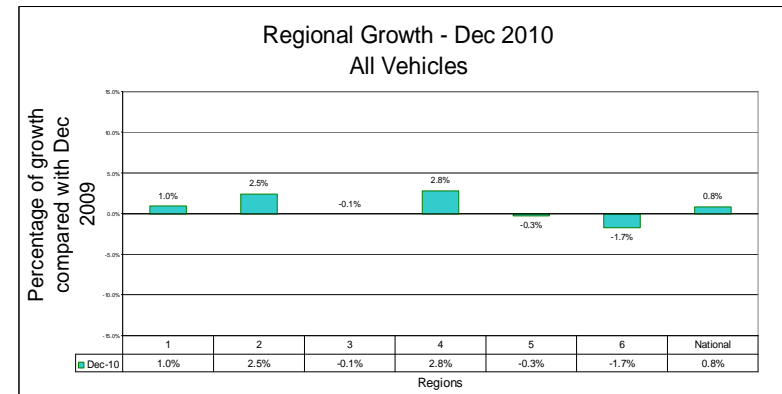
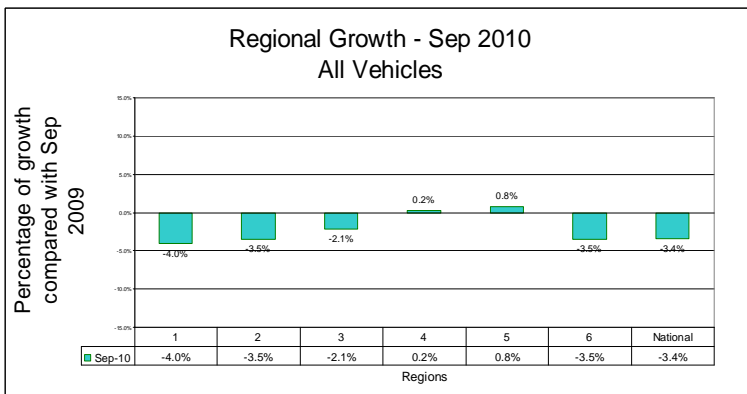
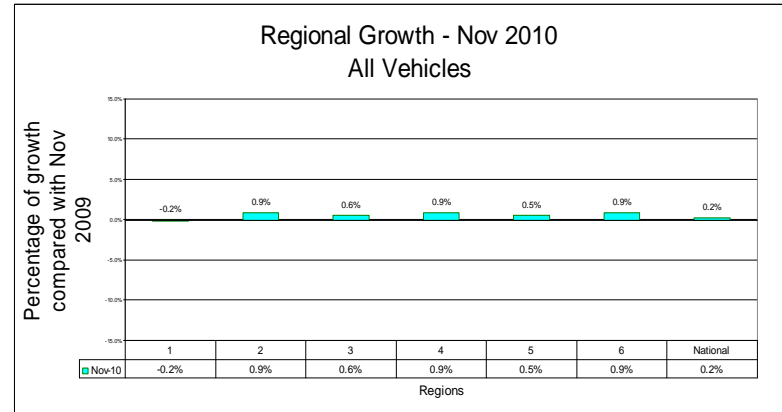
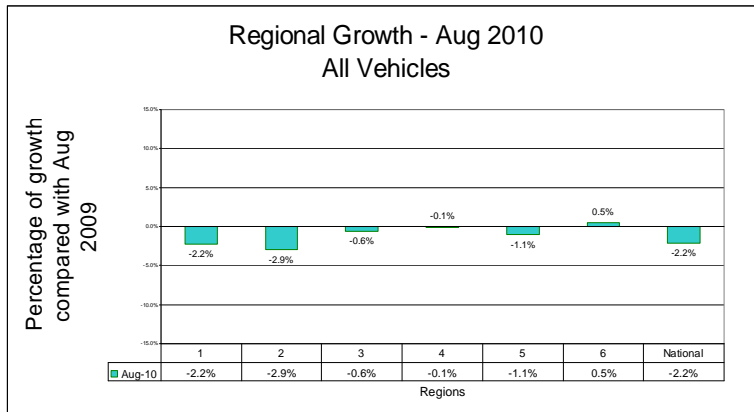
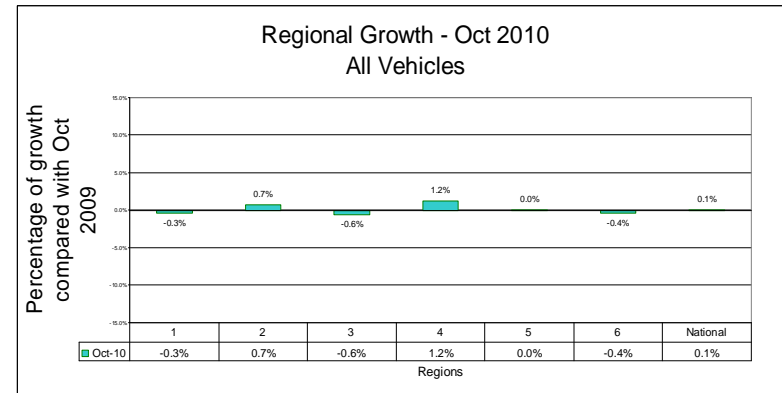
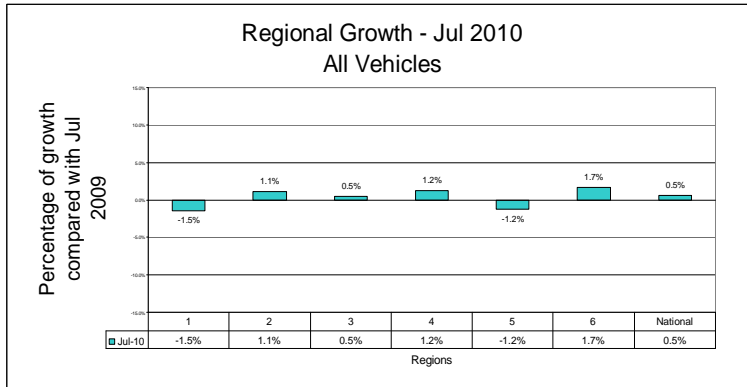
Telemetry Site MADT's for the past thirteen months

- All Vehicles
- Heavy Vehicles

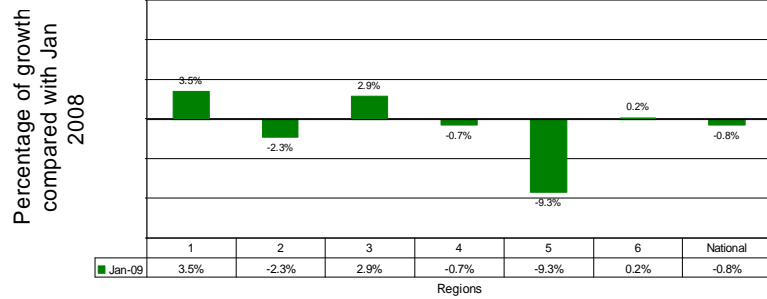




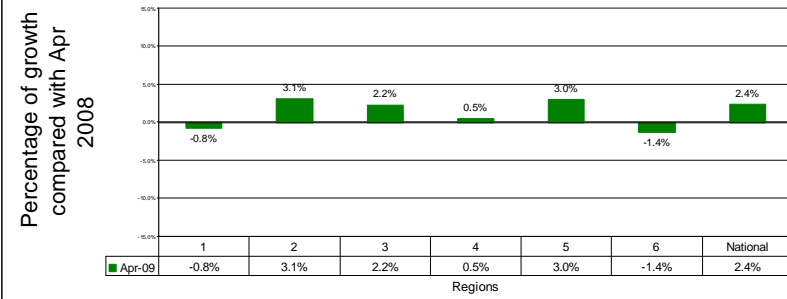




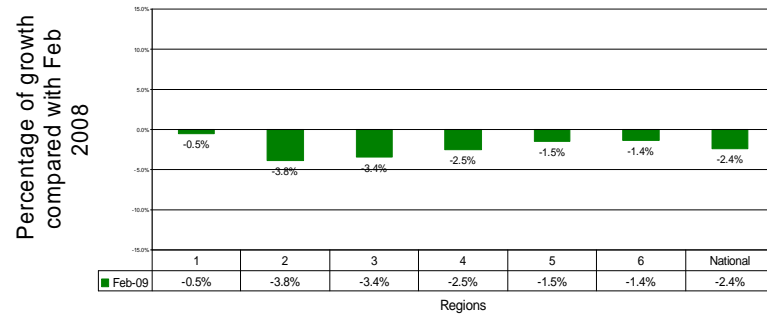
Regional Growth - Jan 2009
All Vehicles



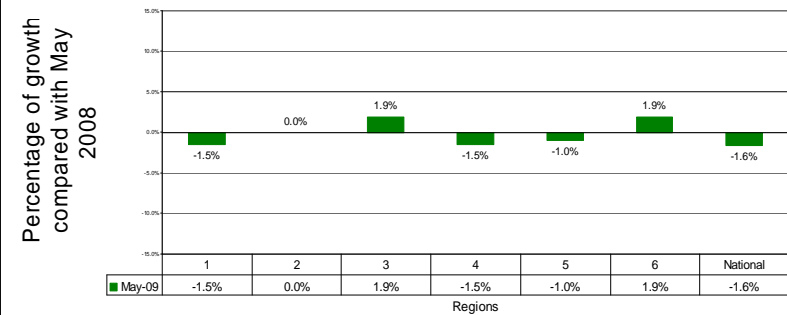
Regional Growth - Apr 2009
All Vehicles



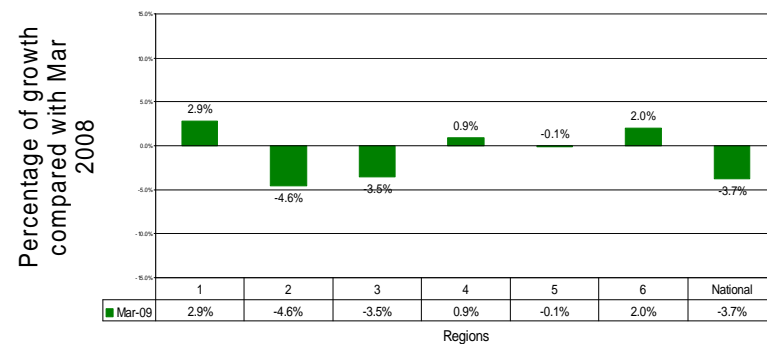
Regional Growth - Feb 2009
All Vehicles



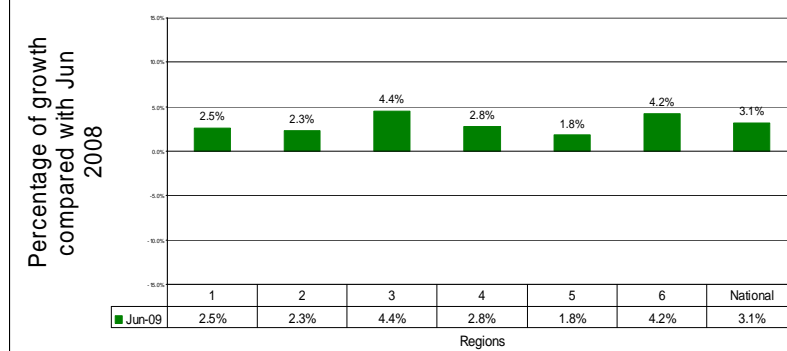
Regional Growth - May 2009
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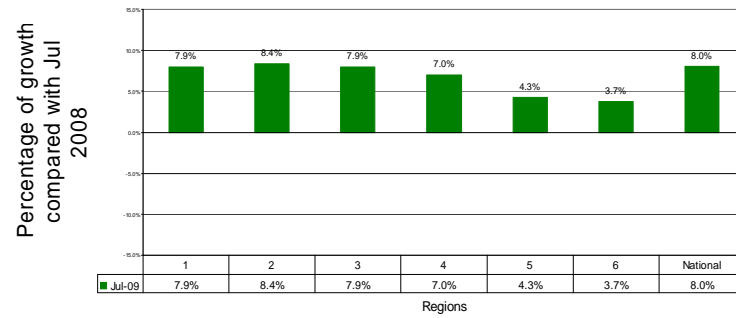
Regional Growth - Mar 2009
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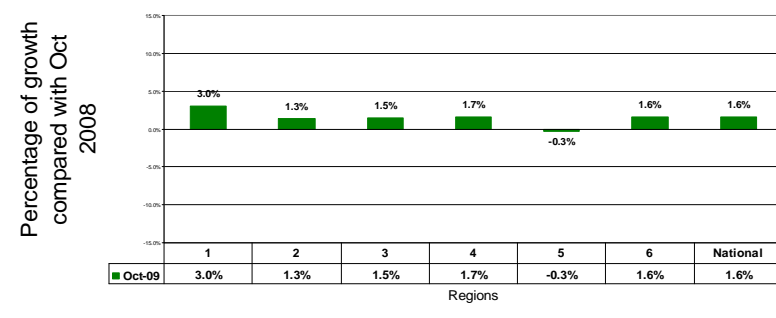
Regional Growth - Jun 2009
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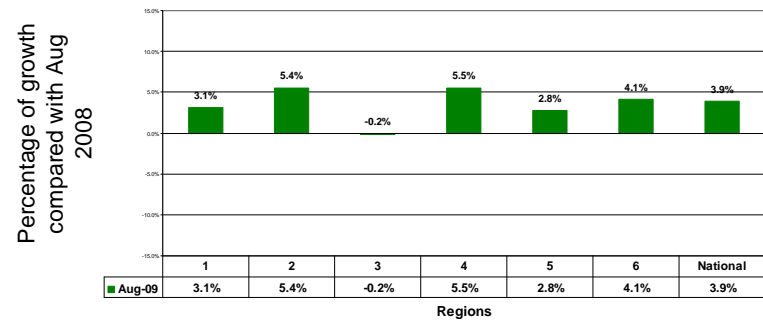
Regional Growth - Jul 2009
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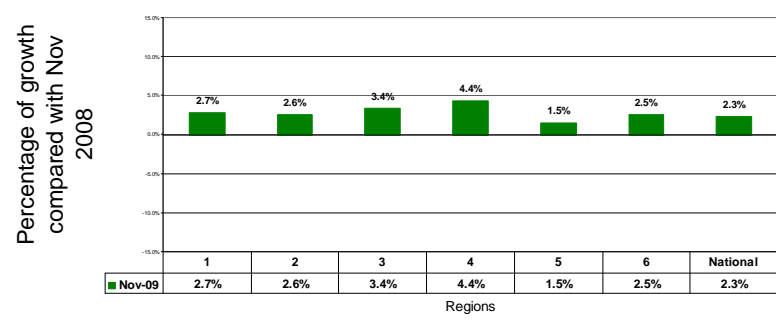
Regional Growth - Oct 2009
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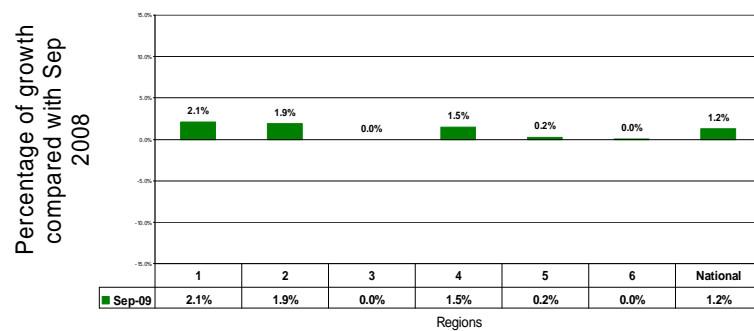
Regional Growth - Aug 2009
All Vehicles



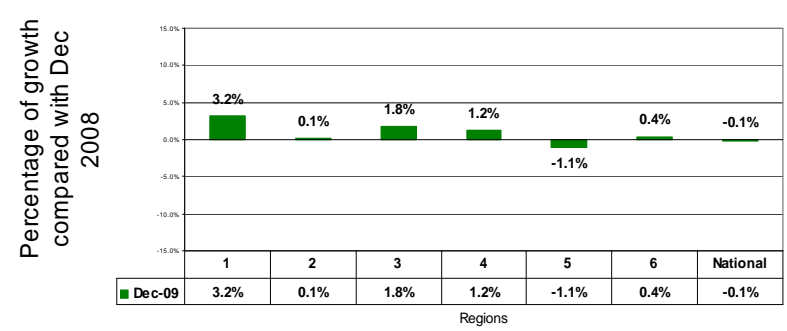
Regional Growth - Nov 2009
All Vehicles



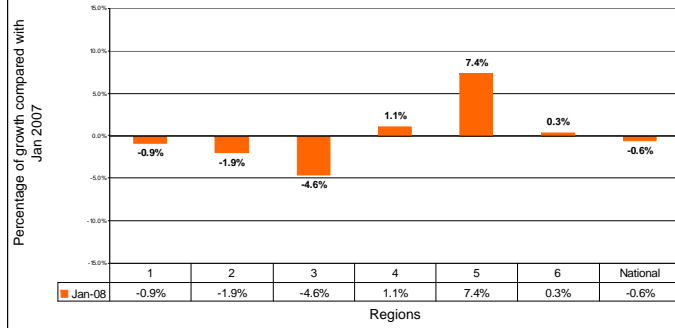
Regional Growth - Sep 2009
All Vehicles



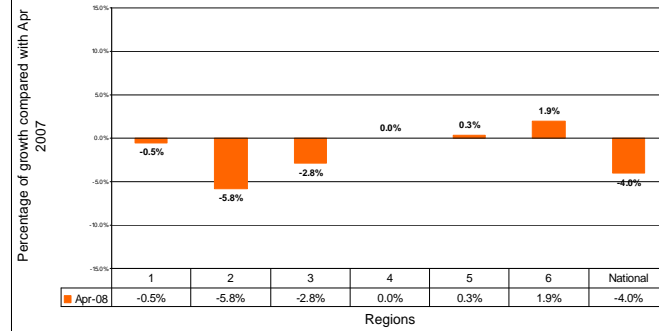
Regional Growth - Dec 2009
All Vehicles



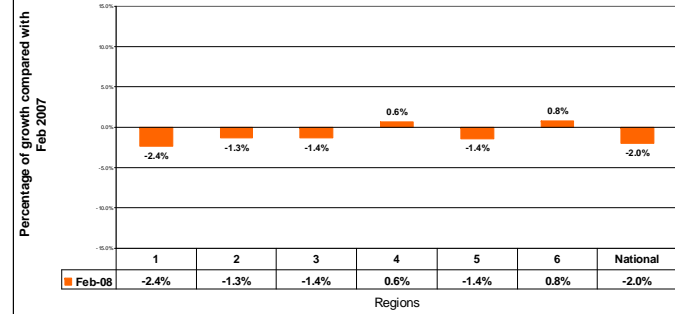
Regional Growth - Jan 2008
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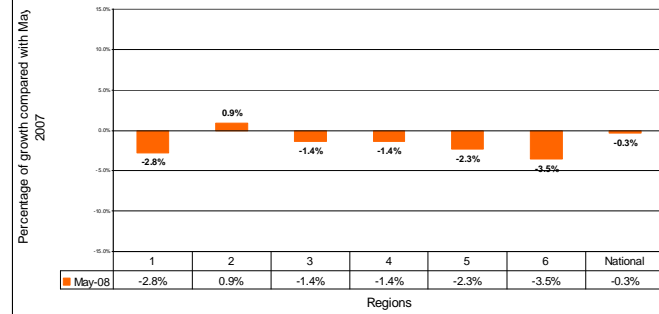
Regional Growth - Apr 2008
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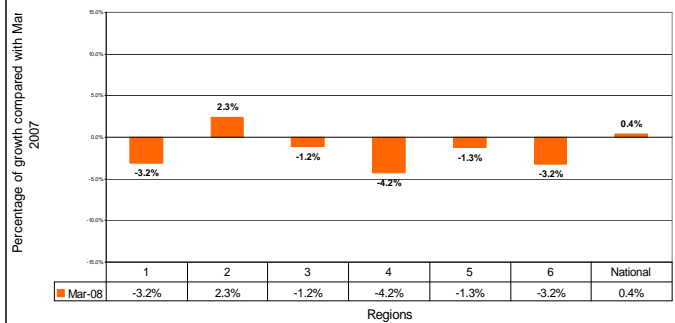
Regional Growth - Feb 2008
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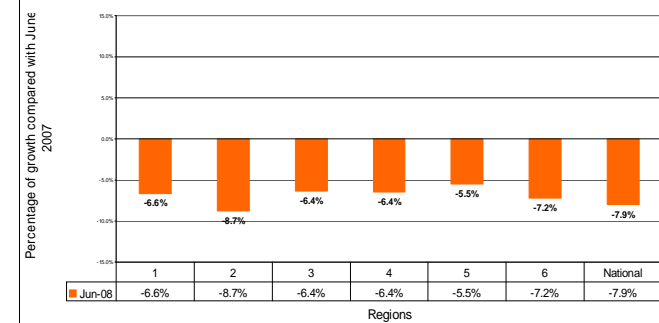
Regional Growth - May 2008
All Vehicles



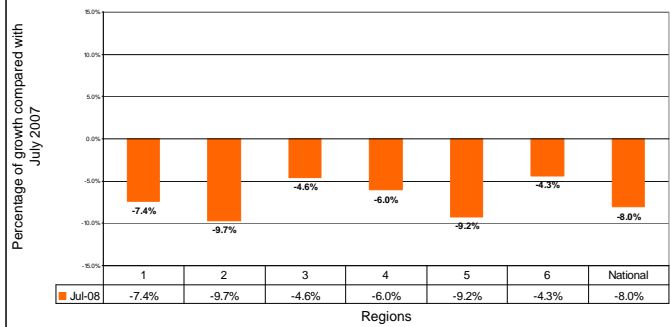
Regional Growth - Mar 2008
All Vehicles



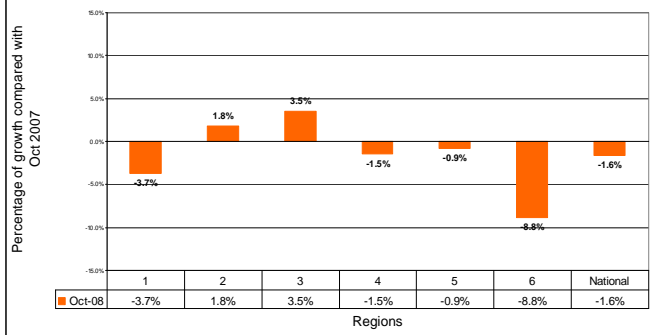
Regional Growth - June 2008
All Vehicles



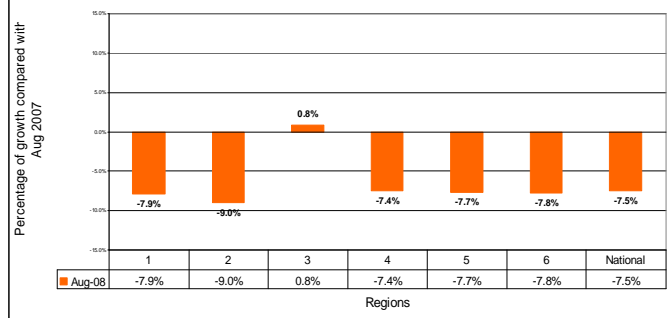
Regional Growth - July 2008
All Vehicles



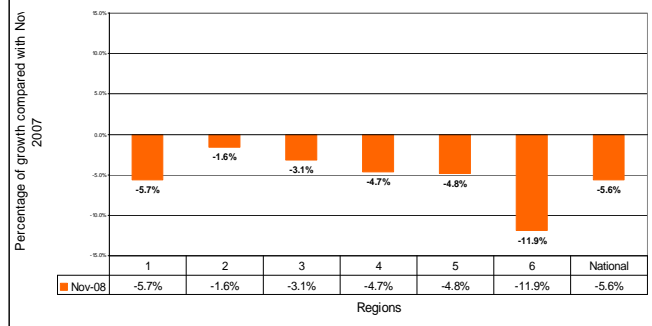
Regional Growth - Oct 2008
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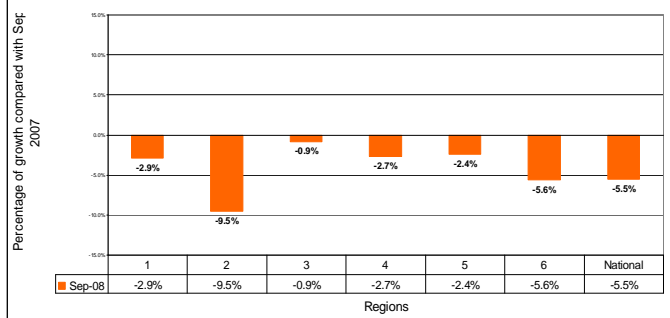
Regional Growth - Aug 2008
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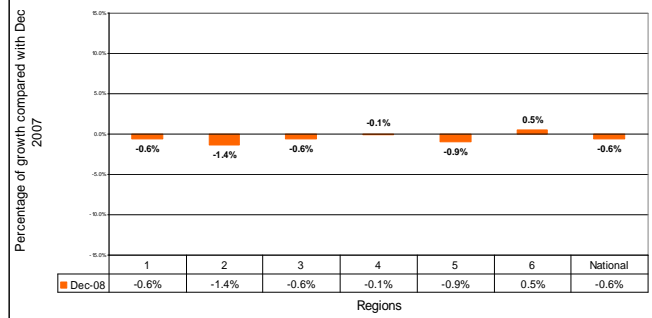
Regional Growth - Nov 2008
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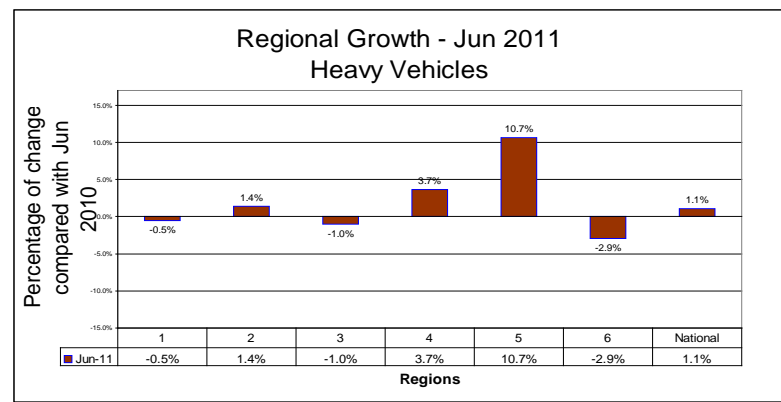
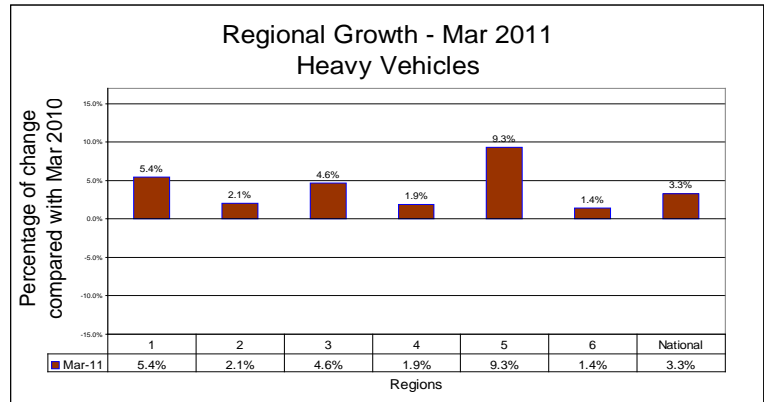
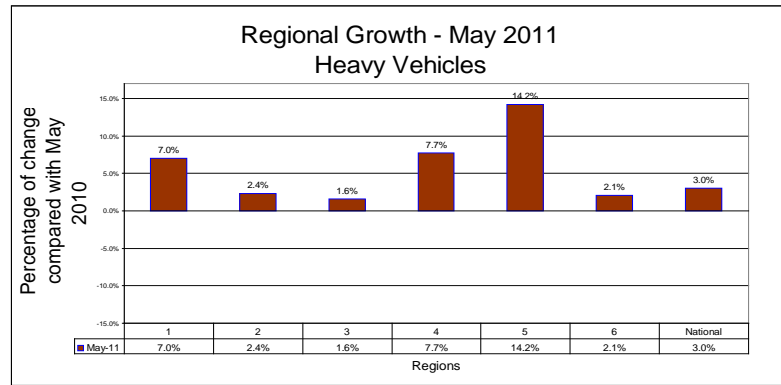
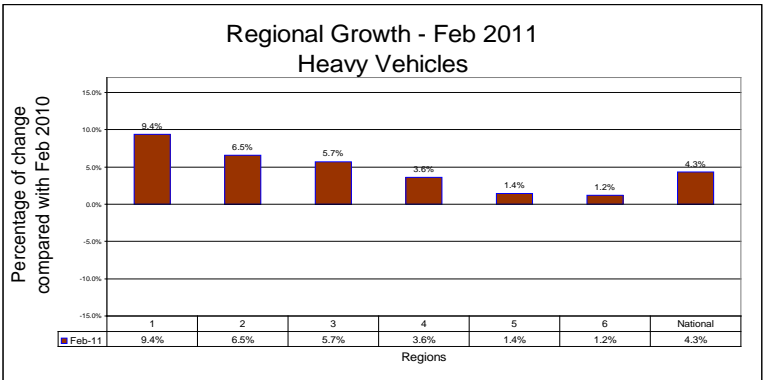
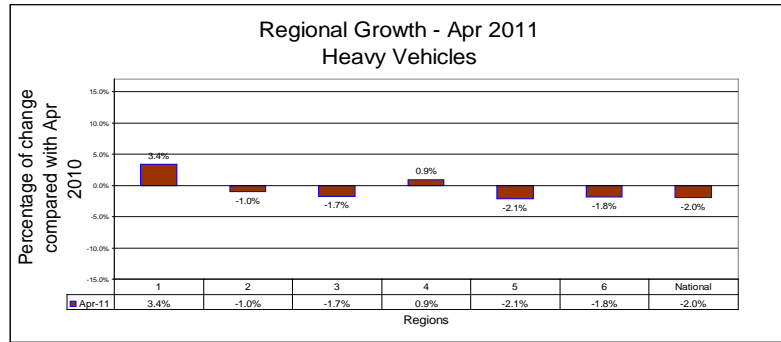
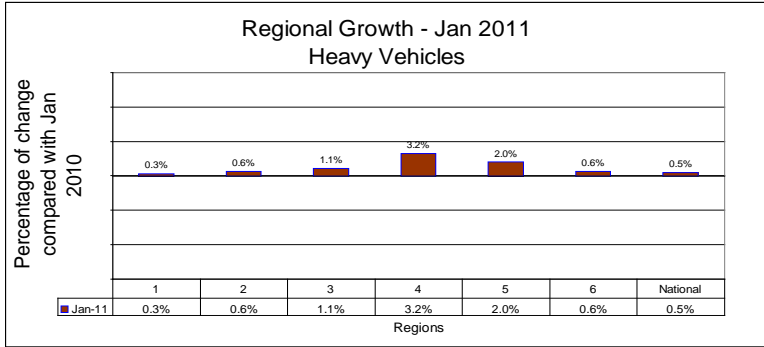


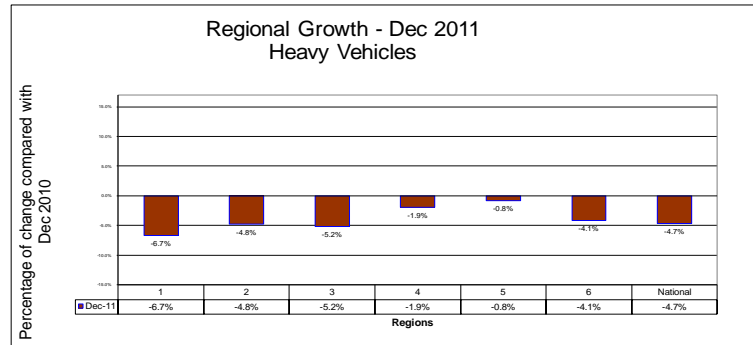
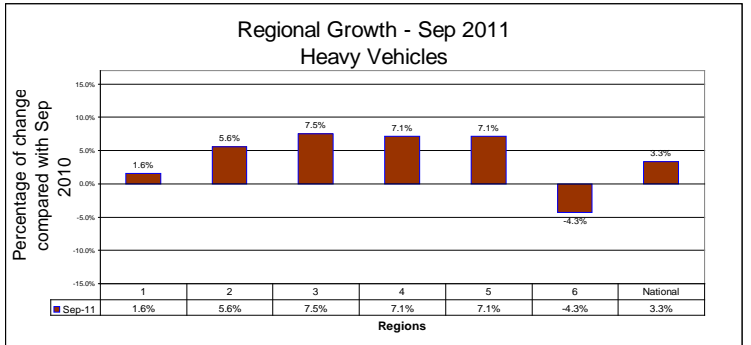
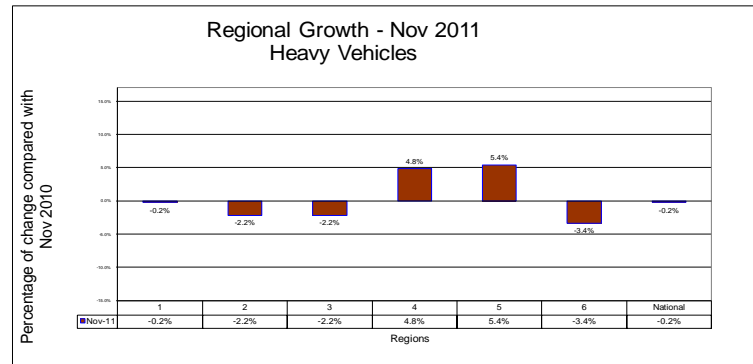
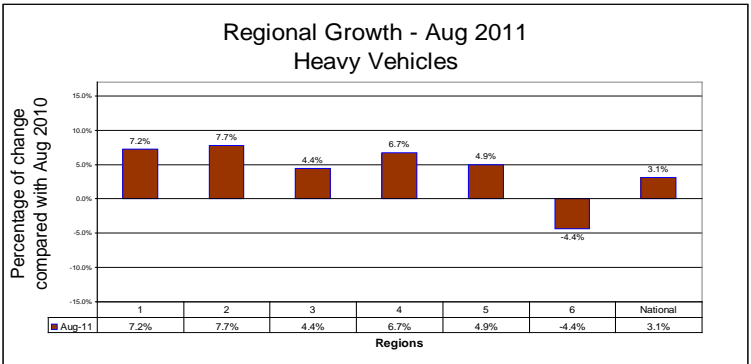
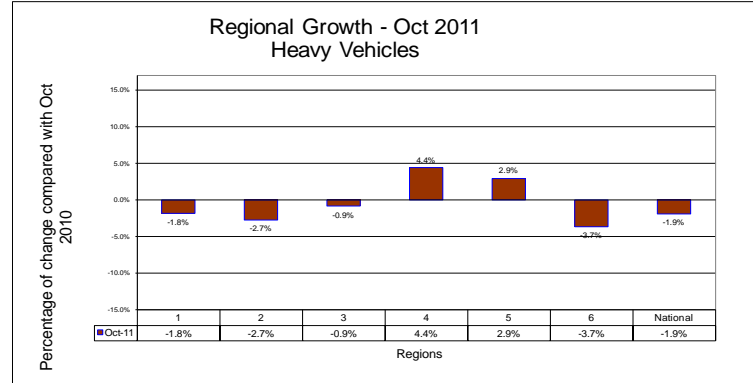
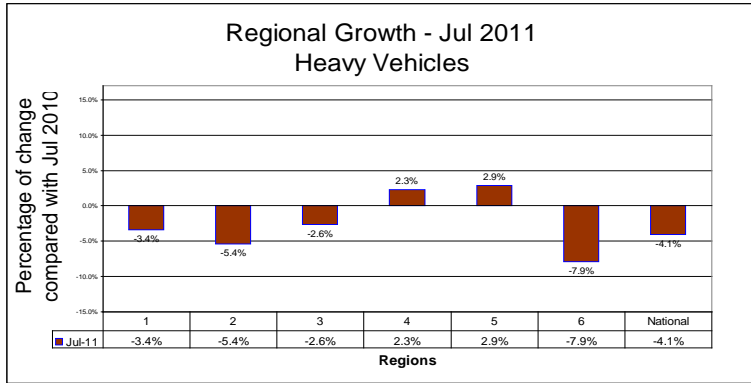
Regional Growth - Sep 2008
All Vehicles



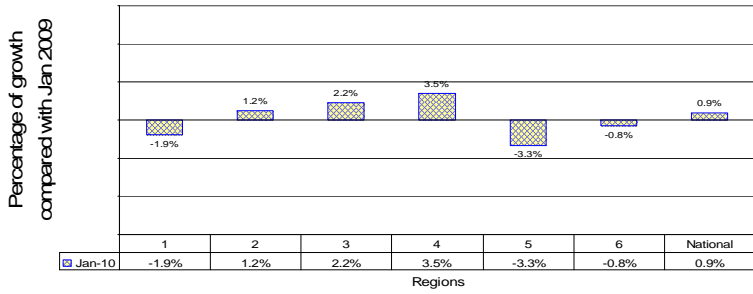
Regional Growth - Dec 2008
All Vehicles



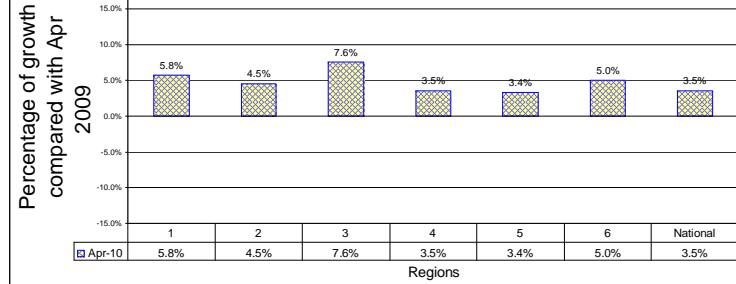




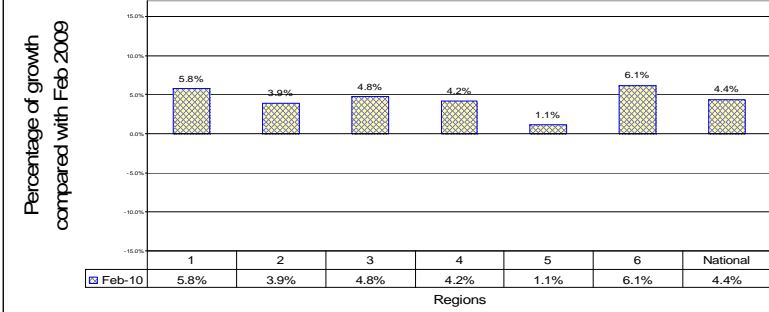
Regional Growth - Jan 2010
Heavy Vehicles



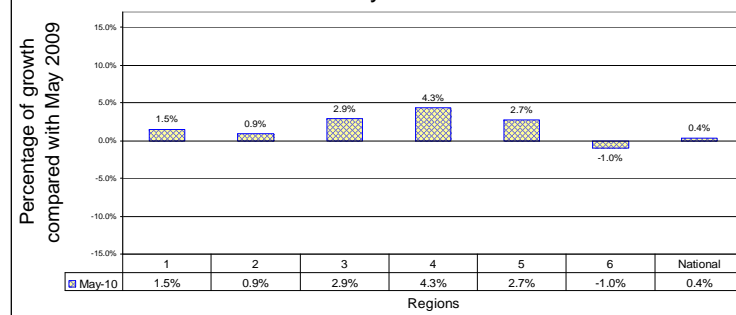
Regional Growth - Apr 2010
Heavy Vehicles



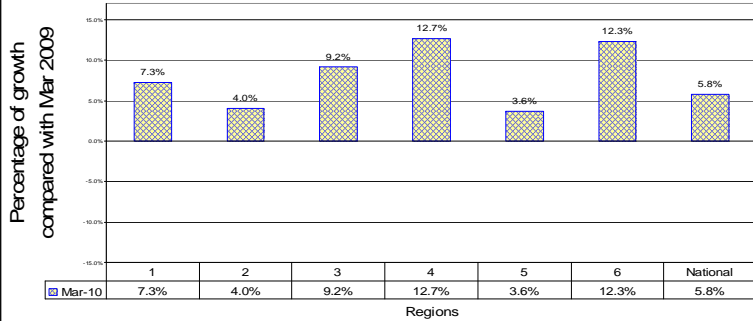
Regional Growth - Feb 2010
Heavy Vehicles



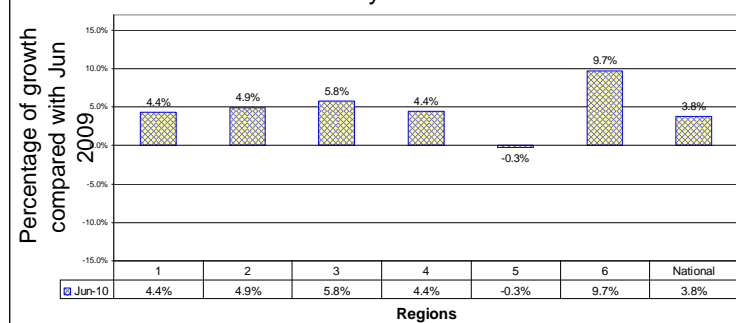
Regional Growth - May 2010
Heavy Vehicles

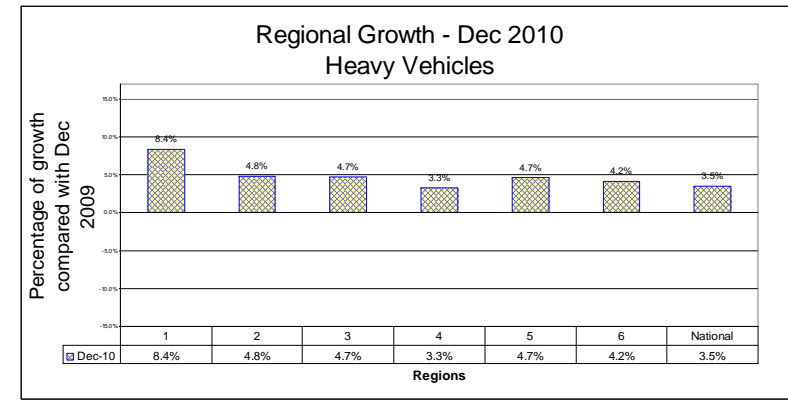
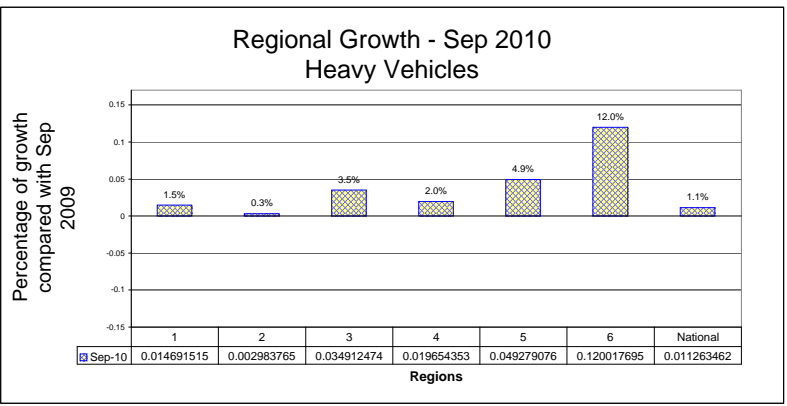
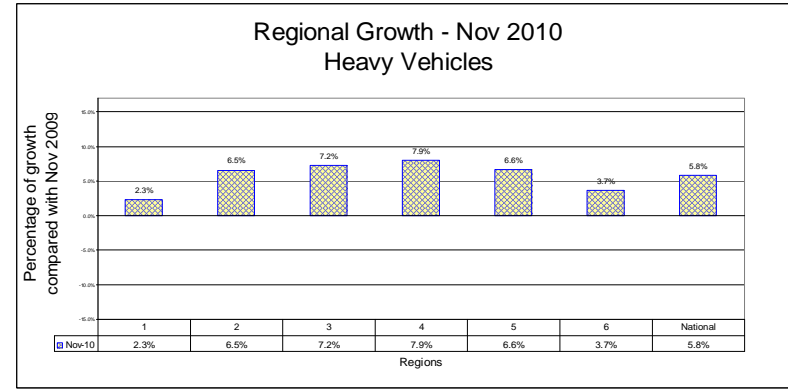
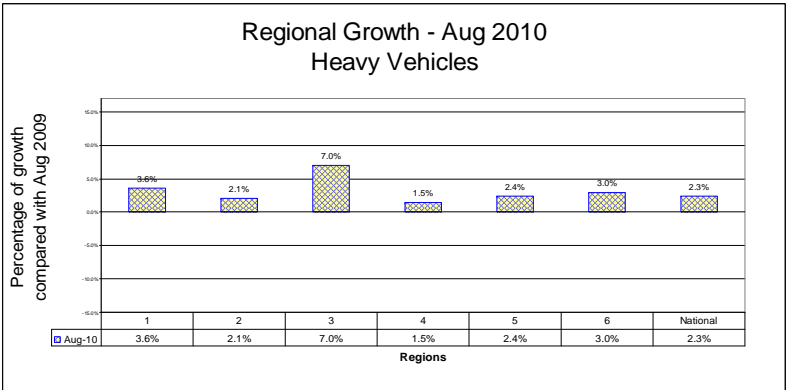
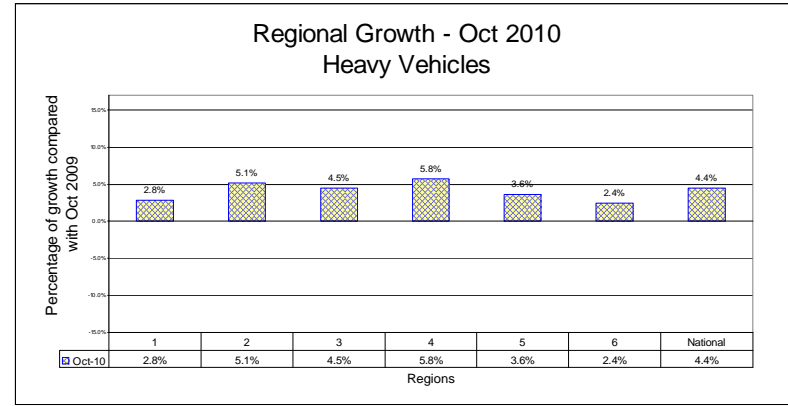
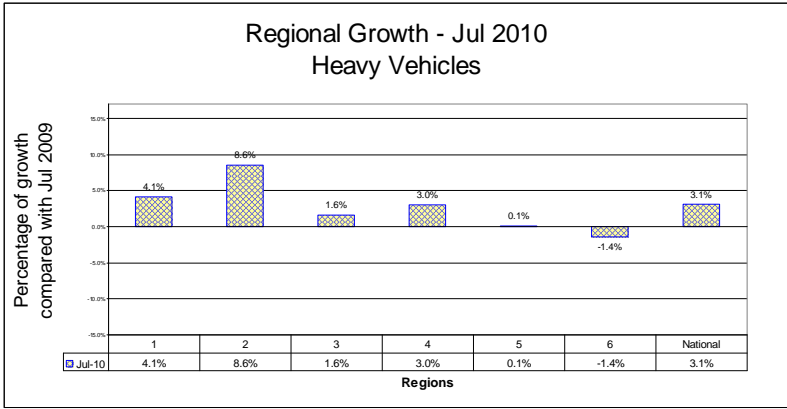


Regional Growth - Mar 2010
Heavy Vehicles

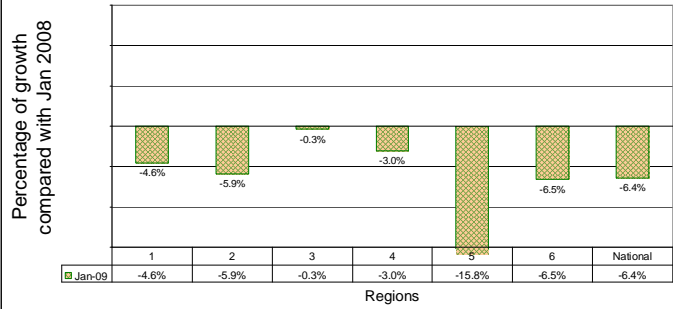


Regional Growth - Jun 2010
Heavy Vehicles

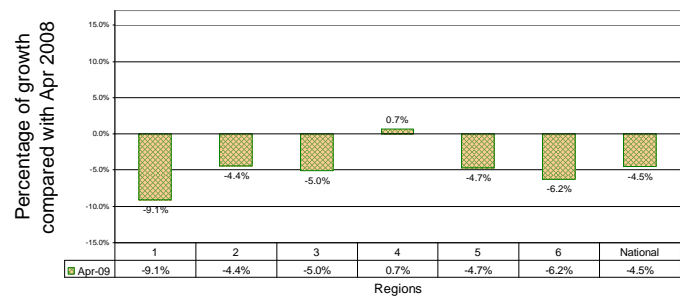




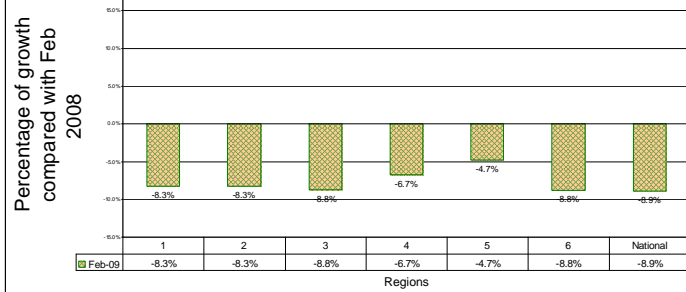
Regional Growth - Jan 2009
Heavy Vehicles



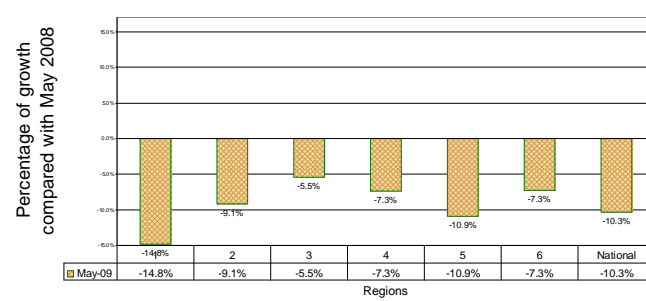
Regional Growth - Apr 2009
Heavy Vehicles



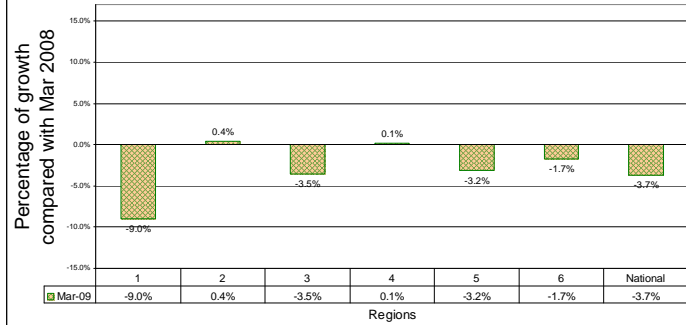
Regional Growth - Feb 2009
Heavy Vehicles



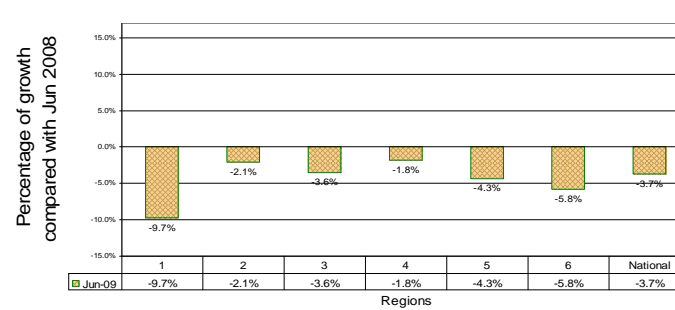
Regional Growth - May 2009
Heavy Vehicles

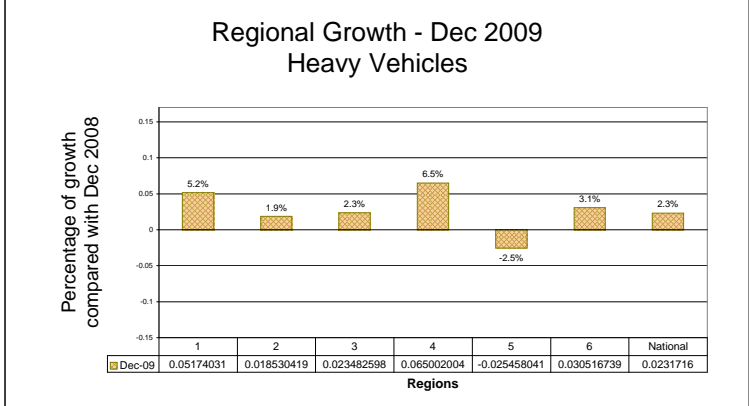
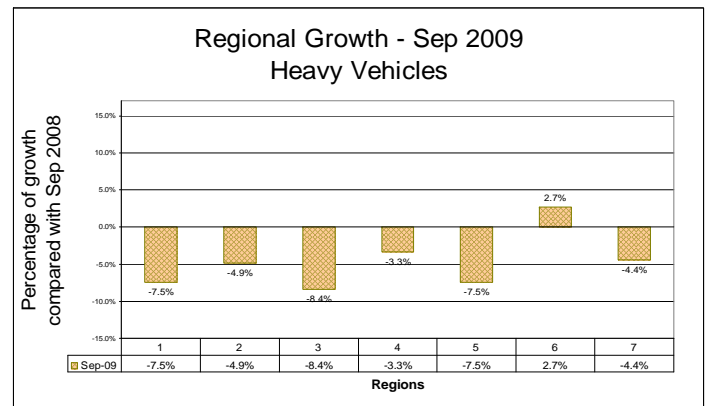
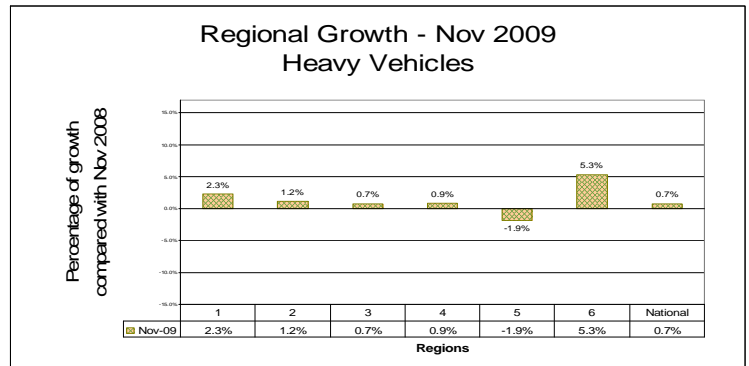
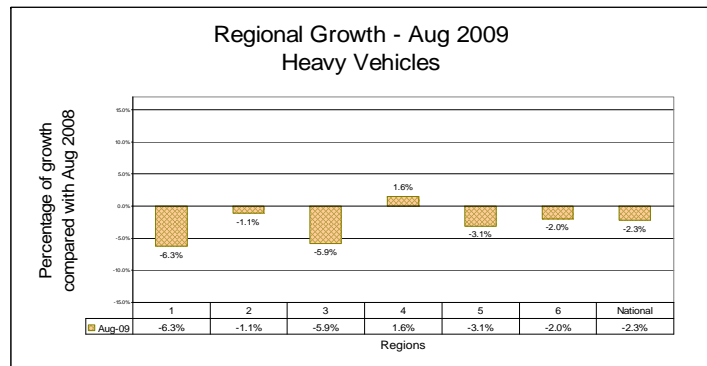
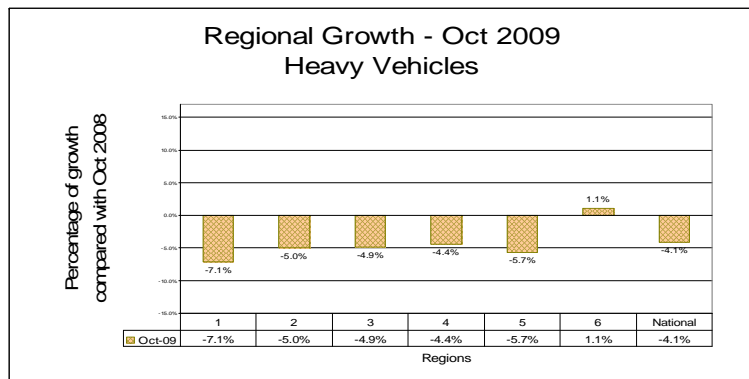
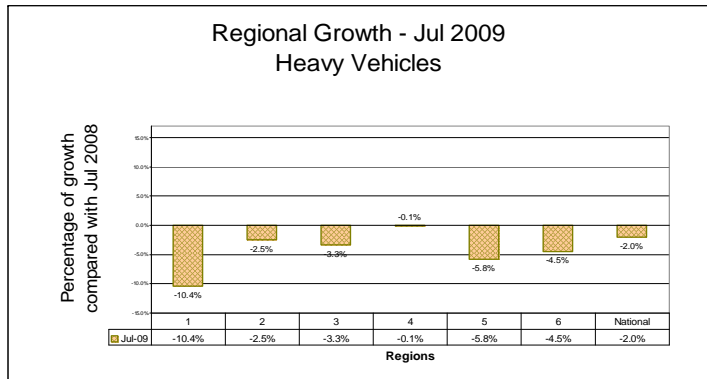


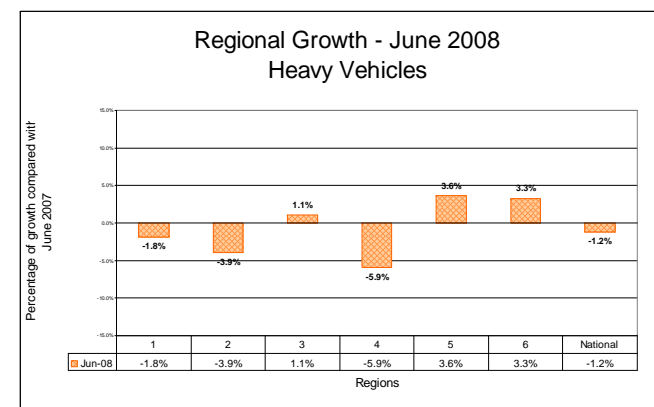
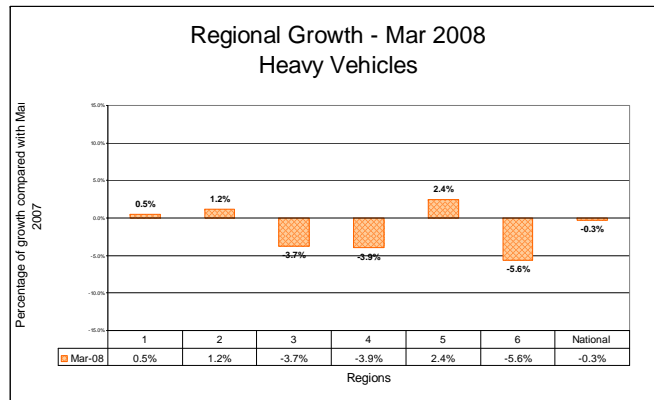
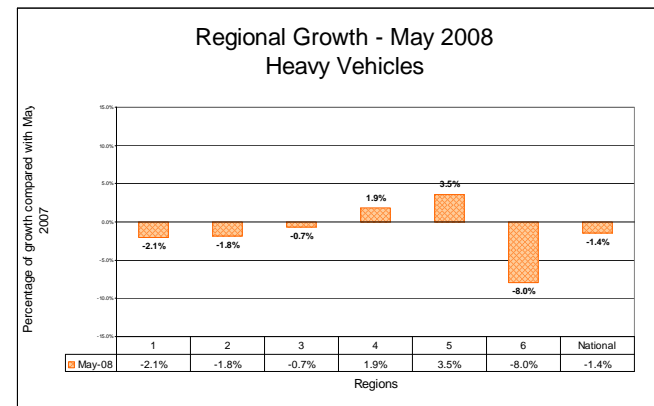
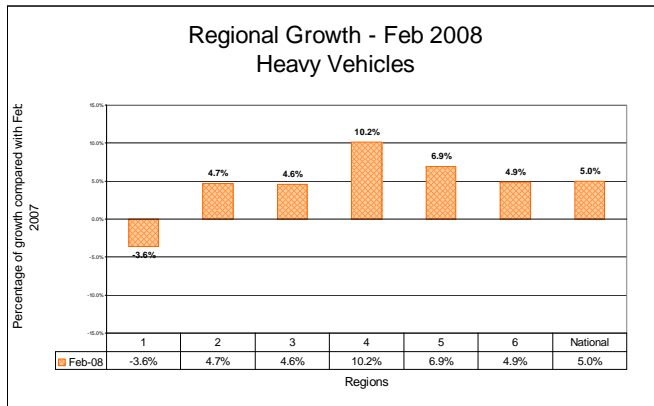
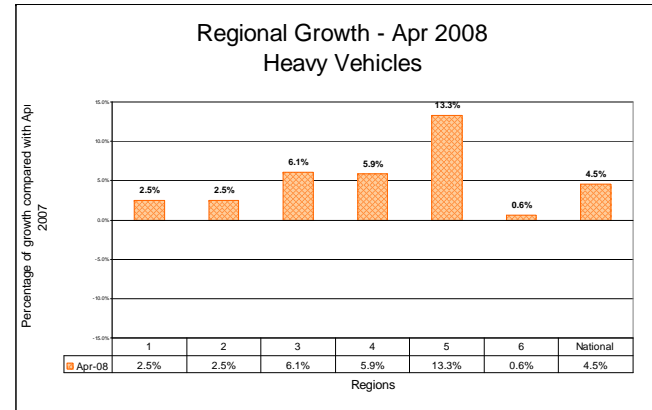
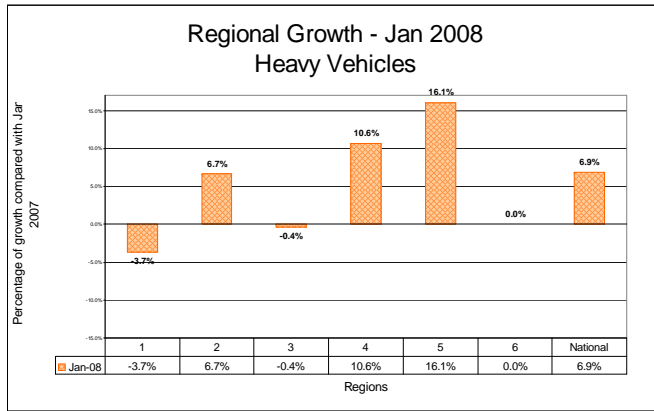
Regional Growth - Mar 2009
Heavy Vehicles



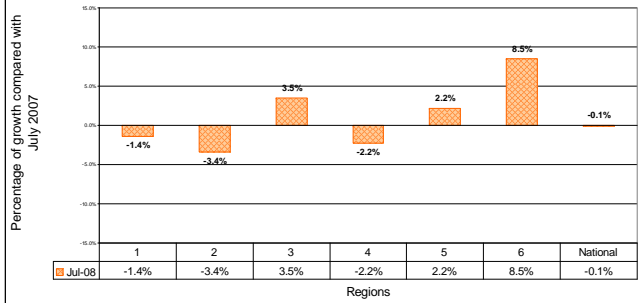
Regional Growth - Jun 2009
Heavy Vehicles



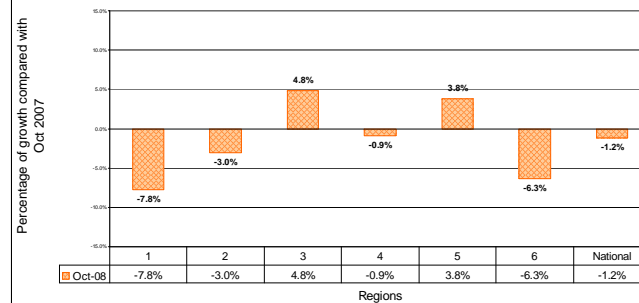




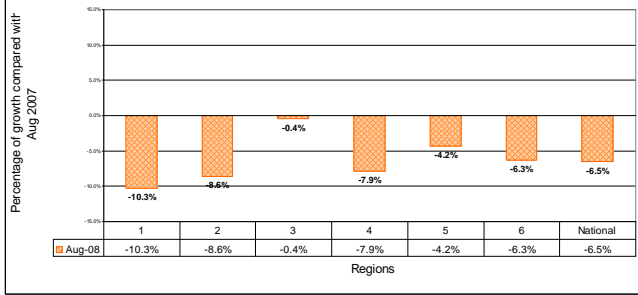
Regional Growth - July 2008
Heavy Vehicles



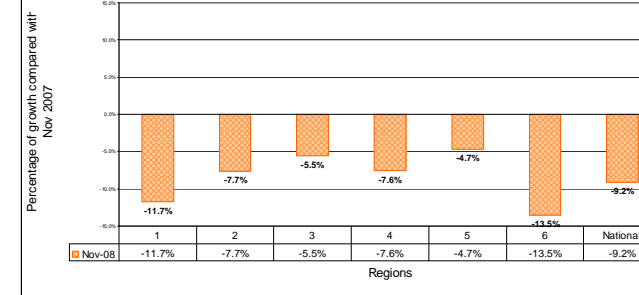
Regional Growth - Oct 2008
Heavy Vehicles



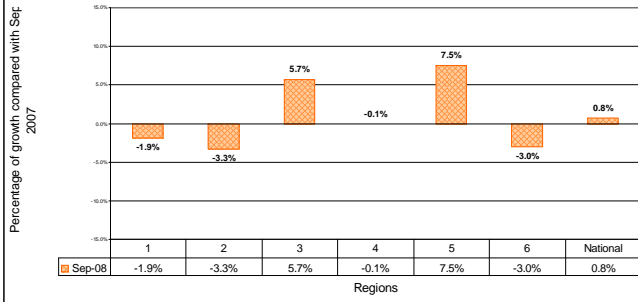
Regional Growth - Aug 2008
Heavy Vehicles



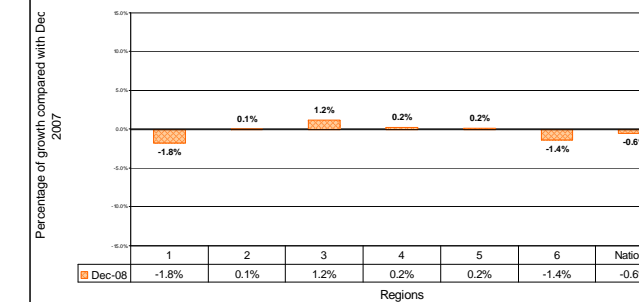
Regional Growth - Nov 2008
Heavy Vehicles



Regional Growth - Sep 2008
Heavy Vehicles



Regional Growth - Dec 2008
Heavy Vehicles



Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
1	ID:01N00212	KAWAKAWA	6969	7245	6565	6077	6330	5169	5090	5230	5165	5313	5812	6062	6750
1	ID:01000029	Sth of Takou Bay Rd	4670						3063	2986	3055	3099	3281	3551	3940
1	ID:01N00274	Nth of Maungakarema Rd	15383						12756	12841	12753	13235	13635	14112	15012
1	ID:01200220	East of Brynderwyn Brg 161							2457	2449	2387	2456	2646	2833	
1	ID:01700006	HATFIELDS BEACH	6486	6872	6394	5577	5661	4960	4717	4970	5019	5051	5636	5850	6185
1	ID:01N10459	DRURY - SB (Park Estate)	31548	29198	30712	29552	29756	27664	27581	28429	27894	27967	29323	30050	31471
1	ID:01N20459	DRURY - NB (Park Estate)	30307	30599	30881	29581	29834	27731	27581	28516	27988	27912	29578	30081	30377
1	ID:01N00336	WELLSFORD - Nth of Mangawhai Rd	10189	11778	9755	8898	9485	7682	7521	8055	7463	7748	8810	8761	9568
1	ID:01N10440	PANAMA Rd - SB	51665	49093		54687	52709	53366		56261			57061	58392	48368
1	ID:01N20440	PANAMA Rd - NB	56064	53164		58201	56563	56060		59301			60686	62110	52369
1	ID:01N10474	BOMBAY - SB	20399	19452	18744	17642	18729	15926	12999	17209	16171	17241	18311	17877	
1	ID:01N20474	BOMBAY - NB	18936	20730	18757	17676	18710	16095	16214	17194	16169	17035	18356	17733	
1	ID:01N00388	ALPURT	16139	17725	15618	14088	14775	12362	12310	12931	12242	12364	14219	14291	15852
1	ID:02000007	SH20 Puhinui Rd to Massey Rd	55895	49413		57093	54302	55251	54871	54241	56527	57429	56024	60618	57667
1	ID:01N00424	Auckland Harbour Brg - Centre Span	75593	71873	78352	77723	73127	69488	70026	71166	71570	71209	69542	71793	68516
1	ID:01N10424	Auckland Harbour Brg - Left Clip-on	34846	31473	41901	40679	38050	38608	38935	38691	39499	39618	39653	41249	38614
1	ID:01N20424	Auckland Harbour Brg - Right Clip-on	43379	36469	42022	43238	39275	42916	41479	43071	42004	43075	42758	44069	42733
2	ID:00200002	MAUNGATAWHIRI - West of Grahams Brg	15574			13273	14087	11379	11436	12290	11329	11711	13605	13227	
2	ID:25A00024	HIKUAE - Telemetry Site 76 - 1.3km after Kitahi Rd	4355	5688	3754	3352	3396	2264	2386	2448	2189	2410	3046	2990	4085
2	ID:02700011	KAIHERE	4741	4690	4626	4486	4994	3915	3933	4216	3896	4011	4493	4348	4728
2	ID:01N00526	TAUPIRI - Nth of Gordonton Rd	21702	20747	21234	20524	21380	19208		20530	19867	19802	21236	21067	21773
2	ID:01N00620	LICHFIELD - Sth of Baldwin Rd	9841	9735	9660	9259	9614	8335	8455	8724	8347	8557	9208	9130	9777
2	ID:00300085	TE KUITI - Nth of 8 Mile Junction	4366	4287	4109	4073	4231	3512	3706	4161	4061	4087	4253	3923	4304
2	ID:03200074	West of Taupo	766	864	709	636	712	489	605	587	623	649	736	715	757
2	ID:01N00580	KARAPIO	15640	15796	15679	14795	15227	13312	13152	14486	13314	13167	14581	14657	15425
2	ID:00200091	WAIHI - East of Samson Rd West	8928	9593	8145	7328	7778	6628	6601	6847	6533	6615	7541	7445	8318
2	ID:01N00729	HALLETTS BAY	6031	6917	5831	5206	5884	4121	4389	5153	4669	4843	5322	4989	5655
2	ID:01N00628	TOKOROA - (WIM Site)	9364	9337	9056	8601	8962	7650	7321	8142	7754	7996	8672	8539	9309
2	ID:01N90552	GREENWOOD	22434	19910	23029	22717	22339	21977	22357	21486	22228	21969	21678	23005	21894
2	ID:00200141	TE PUNA - West of Snodgrass	17924	17369	17396	16236	16039	15696	15376	15289	15461	15485	15915	17166	17569
2	ID:03010149	TE NGA - East End of Puarenga Brg (Inc)	18134	16699	17872	17477	16805	16299	16300	16209	16552	16157	15990	17459	16979
2	ID:03020149	East end of Puarenga Brg (Dec)	17884	17000	18004	17500	16789	16264	16262	16190	16591	16162	16036	17523	16811
2	ID:00200204	OHINEPANEA - West of Rogers Rd	5389	5457	5148	4801	4889	4441	4382	4457	4410	4540	4705	4955	5203
2	ID:03000188	LAKE ROTOMA	3284	3504	3231	2937	2951	2499	2587	2671	2534	2613	2693	2798	3046
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	4540	4946	4531	4142	4085	3745	3608	3693	3639	3562	3767	3909	4157
2	ID:00500034	TARUKENGA - 4.7km West of Dalbeth Rd	5604	5663	5544	5061	5769	4549	4734	4895	4627	4758	5134	5121	5403
2	ID:02900034	KAIMAI - 100m past Boulder Brg (Kaukumoutiti Stream)	9575	9526	9087	9030	9212	8080	8409	8480	8072	8185	8744	8761	9311
2	ID:00500057	WAIPA - Sth of SH30	7783	8166	8013	7408	7240								
2	ID:00200176	TE PUKE - (WIM Site)	19977	18711	19884	19345	19220		18440	17908	18240		17686	18859	18839
2	ID:00200242	AWAKERI	9688	8874	9348	9505	8954		8397	7938	7323	7342	7005	7700	7691
3	ID:00200428	ORMOND	2707	2472	2781	2437	2317	2144	2197	2162	2132	2165	2288	2457	2495
3	ID:03500320	OKITU	4271	4237	3732	3418	3227	3007	2838	2655	2704	2939	3009	3391	3909
3	ID:00200627	TANGOIO	2332	2447	2360	2070	1923	1810	1771	1822	1750	1863	1977	2054	2144
3	ID:00500230	TE POHUE - 1 km Nth of Oakmere Station Gateway	3136	3339	3237	3090	2945		2171	2502	2262	2506	2720	2667	2897
3	ID:05000010	Nth of Tutaekuri River	22638	20807	23309	23140	21308	21077		20512	21071	21149	20548	22445	
3	ID:00300171	TONGAPORUTU Brg	2273	2535	2157	2151	2126	1647	1843	1939	1744	1933	2175	2026	2233
3	ID:00300267	TARIKI	9203	8470	9057	8994	8796	8517	8366	8441	8341	8382	8456	9160	8868
3	ID:00300370	WAITOTARA	3702	3572	3720	3673	3656	3224	3008	3113	3131	3242	3416	3438	3646
3	ID:04500101	OHAWA BEACH Rd	4235	3880	3879	3860	3679	3593	3428	3354	3518		3936	4074	4017
3	ID:01N00930	SANSON	13418	12778	13001	12334	12486	11186	11155	11602	11190	11357	12117	12027	12817
3	ID:01N00988	OHAU	16237	16029	16058	15034	15204	13376	13533	14074	13386	13661	14557	14418	15674
3	ID:00200755	NORSEWOOD	4482	4589	4438	4056	4100	3390	3385	3522	3211	3510	3884	3735	4073
3	ID:00300489	MANAWATU GORGE	7397	7351	7368	7226	7001	6348	6341	6152	5677				

Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
3	ID:00400133	HOROPITO	1888	2069	1904	1725	1873	1339	1598	2153	2277	1999	1974	1575	1754
3	ID:00400226	UPOKONGARO	2133	2064	2082	1942	1973	1689	1747	1771	1713	1745	1798	1876	1974
3	ID:01N00827	HIHITAHAI	5128	5777		4456	4730	3425	3973	4218	3676	4058	4671	4263	4727
4	ID:01N11068	NGAURANGA - SH1 Sth Bound Lanes	24121	21291	23769	22844	21698	22405	22005	22313			22368	23225	21754
4	ID:00200895	CLAREVILLE - Nth of Whites Line	11218	10499	11324	11089	10496	10307	10189	9817	9874	10526	10887	11282	11429
4	ID:00200937	RIMUTAKA - Pukuratahi River Brg	6299	6185	6581	5928	5873	5170	5017	4951	4126		5927	5832	6026
4	ID:01N01036	PUKERUA BAY - (Piezo Axle Classification)	25586	24032	25134	23725	23541	22092	21615	22427	21921	22053	22922	23390	24480
4	ID:01N21068	NGAURANGA - SH1 Nth Bound Lanes	21809	19525	23316	22693	21615	22383	21886	22121	22270	22403	22251	23278	19050
4	ID:05800009	Pauatahanui East	14444	13097	14643	14456	13750	13571	13462	13189		13305	13481	14341	13952
4	ID:00210979	NGAURANGA - SH2 Sth Bound Lanes	23659	20048	23121	22543	20918	21928	21212	21344			21488	22623	20847
4	ID:00220979	NGAURANGA - SH2 Nth Bound Lanes	20919	18405	22556	22151	20709	21691	20955	21073	21380	21476	21254	22625	17798
4	ID:00210965	KELSON - SB	17450	15742	18235	17831	16832	17121	16818	16745	16521	17015	16902	17961	17080
4	ID:00220965	KELSON - NB	16769	14701	17277	16963	16171	16394	16171	16080	15806	16332	16141	17200	16551
4	ID:00600122	STOKE - Whakatu Drive at Songer St	22595	21563	22911	22565	20862	20373	19589	20028	20498	20484	20373	22179	21073
4	ID:00600232	MURCHISON	2148	2675	2397	2077	1945	1373	1392		1269	1429	1805	1803	2121
4	ID:00600100	HIRA			3955	3635	3401	2766	2791		2736		3094	3296	3445
4	ID:06000040	SH60 Riwaka	4551	6340	5207	4305	3721	2887	2597	2488	2500	2656	3122	3638	4441
4	ID:01S00037	Blenheim	3778	4439	4468	4066	4158		3201		3168	3213	3358	3673	4294
4	ID:06300096	ST ARNAUD	419	481	454	410	364	232	225		217	247	324	329	388
5	ID:01S00389	DUNSANDEL	10927	10665	11250	10737	10528	9199	9143	9711	8709	9555	10206	10636	11121
5	ID:01S00505	EVANS St Timaru	21937	19925	21350	21419	20369	19506	18770	19402	19134	19077	20313	21488	21390
5	ID:07300064	Springfield - West of Township	1726	1952	1859	2244	1646	1181	1170	1338	1412	1433	1536	1557	1598
5	ID:01S00144	KAIKOURA - Nth of Hapuku River	2997	3371	3117	2589	2614	1731	1914	2060	1768	1968	2383	2555	2750
5	ID:01S00522	ST ANDREWS	6217	5901	6089	5909	5960	5185	5166	5252	4822	5355	5658	5896	6148
5	ID:00700108	LEWIS PASS	1373	1750	1475	1233	1278	872	938	874	775	874	1173	1108	1285
5	ID:07409005	QE II Drive East Of Main Nth Rd							20675			20889	20052	21123	20375
5	ID:01S00285	WAIKOURA - (WIM Site)	8408	9059	8481	7802	7952	5924	6603	6564	5734	6636	7592	7598	8505
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB				20452	19587	22334	20625	19185	18994	20064	20435	21801	21029
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB				19889	18958	22009	20168	18465	18253	19389	19547	21044	20612
5	ID:00800059	FAIRLIE	2535	2807	2478	2320	2246	1582	1623	1827	1775	1737	1898	2089	2442
5	ID:00600454	CHESTERFIELD	3124	3263	3314	4038	2884	2454	2387	2349	2414	2582	2767	3004	3144
5	ID:00700239	AHAURA	1340	1349	1413	1407							1242	1309	
5	ID:00600398	PUNAKAIKI - Just Nth of Canoe Creek	1113	1325	1306	1178	1027	737	684						1116
6	ID:00800336	ALEXANDRA - Sth Near Butchers Dam	2376	2666	2246	2186	2255	1754	1741	1724	1719	1946	2113	2082	2324
6	ID:01S10713	BURNSIDE - Sth Bound	15283	13683		16156	14610	15277	15211	14843	14950	15267	15207	16201	15593
6	ID:01S20713	BURNSIDE - Nth Bound	10379	9476	10822	11137	10010	10526	10464	10252	10325	10474	10391	11063	10595
6	ID:01S50713	BURNSIDE - On Ramp - Nth Bound	2499	2272	2534	2507	2338	2503	2489	2428	2458	2470	2436	2577	2525
6	ID:01S60713	BURNSIDE - Off Ramp - Sth Bound	3032	2794	3441	3422	3017	3385	3279	3082	3212	3247	3179	3511	3221
6	ID:01S40713	BURNSIDE - Off Ramp - Nth Bound	3106	2845	3711	3524	3125	3385	3278	3135	3198	3301	3323	3623	3324
6	ID:01S40714	Burnside - Nth Bound Off Ramp	2123	1989	2427	2336	2076	2265	2207	2119	2164	2243	2197	2392	2230
6	ID:01S00765	MILTON	6580	6285	6817	6536	6484	5682	5459	5370	5087	5783	6210	6549	6662
6	ID:06A00001	FRANKTON	17600	17977	18025	17650		15195	15746	16567	17027	16466	16037	17256	18230
6	ID:08500161	GALLOWAY	2242	2238	2124	1981	2007	1748	1727	1643	1683	1838	1807	1946	2175
6	ID:08800004	RAVENSBORNE	8734	7787	9111	9101	8362	8366	8202	7777	8013	8409	8313	8958	8548
6	ID:01S00921	INVERCARGILL	11420	9657	11807	11837	10949	11328	11103	10782	11263	11219	10862	11828	11030
6	ID:00601147	WINTON	4928	4313	4737	4772	4540	4589	4346	4159	4326	4444	4360	4577	4825
6	ID:00601082	FIVE RIVERS			2328	2051	2022	1372	1278	1206	1168	1389	1661	1842	2180
6	ID:01S00854	GORE	4301	4060	4353	4283	4083	3860	3688	3655	3564	3684	3973	4265	4323
6	ID:09400141	TE ANAU	1423	1688	1642	1427	1181	732	615	510	615	753	927	1356	1436

Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
1	ID:01N00212	KAWAKAWA	724	739	762	746	710	618	577	558	601	655	667	748	687
1	ID:01000029	Sth of Takou Bay Rd	312												
1	ID:01N00274	Nth of Maungakaramea Rd	1549						1482	1451	1483	1510	1543	1679	1525
1	ID:01200220	East of Brynderwyn Brg 161							357	304	314	403	419	482	
1	ID:01700006	HATFIELDS BEACH	267	249	261	235	220	200	180	183	193	199	211	233	223
1	ID:01N10459	DRURY - SB (Park Estate)	2612	2294	2684	2696	2480	2472	2339	2186	2306	2323	2307	2627	2489
1	ID:01N20459	DRURY - NB (Park Estate)	2444	2250	2560	2576	2388	2368	2234	2100	2203	2205	2210	2502	2320
1	ID:01N00336	WELLSFORD - Nth of Mangawhai Rd	1001	1083	1024	1006	947	860	819	763	837	880	919	1006	935
1	ID:01N10474	BOMBAY- SB	2143	1868	2177	2173	1994	1942	1515	1783	1866	2000	2136	2370	
1	ID:01N20474	BOMBAY - NB	2132	2008	2237	2220	2060	1995	1935	1838	1922	2043	2219	2425	
1	ID:01N00388	ALPURT	1452	1440	1413	1311	1284	1170	1102	1065	1117	1139	1206	1344	1290
1	ID:02000007	SH20 Puhinui Rd to Massey Rd	3603	3081		3606	3108	3164	2981	2750	3100	3084	2947	3525	3251
2	ID:00200002	MAUNGATAWHIRI - West of Grahams Brg	1851			1896	1739	1682	1594	1497	1558	1676	1718	1832	
2	ID:25A00024	HIKUAU - Telemetry Site 76 - 1.3km after Kitahi Rd	354	407	295	260	251	190	194	195	199	217	250	284	315
2	ID:02700011	KAIHERE	897	806	963	993	929	861	816	750	797	866	871	957	863
2	ID:01N00526	TAUPIRI - Nth of Gordonton Rd	2175	1927	2266	2284	2079	2008		1940	2102	2157	2145	2397	2169
2	ID:01N00620	LICHFIELD - Sth of Baldwin Rd	1475	1326	1525	1654	1464	1371	1333	1232	1312	1437	1466	1564	1437
2	ID:00300085	TE KUITI - Nth of 8 Mile Junction	701	629	724	758	682	670	599	590	637	665	675	760	671
2	ID:03200074	West of Taupo	99	94	106	114	99	93	121	97	105	122	126	145	103
2	ID:01N00580	KARAPIRO	1629	1566	1765	1703	1544	1453	1330	1254	1483	1472	1512	1667	1626
2	ID:00200091	WAIHI - East of Samson Rd West	909	828	907	826	812	760	730	686	733	746	767	854	791
2	ID:01N00729	HALLETTS BAY	806	797	899	894	818	748	737	665	663	759	750	826	744
2	ID:01N00628	TOKOROA - (WIM Site)	1461	1202	1442	1547	1292	1255	1136	1193	1337	1504	1504	1606	1473
2	ID:01N90552	GREENWOOD		1613	1995	1962	1744	1733	1695	1540	1709	1665	1637	1830	1686
2	ID:00200141	TE PUNA - West of Snodgrass	1166	1067	1246	1201	1193	1252	1134	1012	1111	1126	1099	1260	1121
2	ID:03010149	TE NGA - East End of Puarenga Brg (Inc)	990	910	1110	1096	966	935	901	887	962	962	927	1068	946
2	ID:03020149	East end of Puarenga Brg (Dec)	1009	960	1136	1123	1002	963	952	888	936	944	900	1081	925
2	ID:00200204	OHINEPANEA - West of Rogers Rd	761	752	842	781	759	738	706	664	722	824	770	861	758
2	ID:03000188	LAKE ROTOMA	347	369	377	335	306	287	289	288	310	310	309	351	301
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	623	581	701	688	582	571	540	490	545	547	553	618	559
2	ID:00500034	TARUKENGA - 4.7km West of Dalbeth Rd	676	638	743	685	649	575	553	547	583	576	609	682	626
2	ID:02900034	KAIMAI - 100m past Boulder Brg (Kaukumoutiti Stream)	1311	1158	1331	1391	1268	1161	1145	1070	1201	1258	1270	1408	1344
2	ID:00500057	WAIPA - Sth of SH30	794	784	998	971	894								
2	ID:00200176	TE PUKE - (WIM Site)	1766	1544	1837	2089	2167		1855	1662	1848		1802	2022	1699
2	ID:00200242	AWAKERI	760	699	827	880	717		614	568	574	648	566	709	608
3	ID:00200428	ORMOND	252	243	316	291	260	258	261	241	210	229	227	258	222
3	ID:03500320	OKITU	336	341	400	382	323	286	285	240	273	285	293	359	292
3	ID:00200627	TANGOIO	391	393	444	418	335	373	363	338	346	358	348	411	351
3	ID:00500230	TE POHUE -1km Nth of Oakmere Station Gateway	516	557	562	601	534		451	467	472	525	483	573	460
3	ID:05000010	Nth of Tutaekuri River	1389	1325	1553	1728	1558	1410		1205	1269	1341	1242	1418	
3	ID:00300171	TONGAPORUTU Brg	409	375	413	436	393	381	358	348	399	410	433	488	402
3	ID:00300267	TARIKI	1045	923	1033	1061	968	901	780	803	960	1008	1034	1134	1008
3	ID:00300370	WAITOTARA	601	561	689	683	646	578	423	414	571	561	598	671	614
3	ID:04500101	OHAWA BEACH Rd	518	491	471	457	388	306	216	235	370		605	584	530
3	ID:01N00930	SANSON	1556	1488	1724	1721	1598	1496	1357	1258	1372	1470	1501	1638	1557
3	ID:01N00988	OHAU	1569	1466	1679	1699	1509	1430	1383	1315	1366	1411	1401	1496	1444
3	ID:00200755	NORSEWOOD	628	633	699	718	677	569	541	493	525	603	580	618	566
3	ID:00300489	MANAWATU GORGE	808	794	901	956	861	776	707	642	723				
3	ID:00400133	HOROPITO	303	299	354	345	295	276	277	275	297	294	270	288	259
3	ID:00400226	UPOKONGARO	161	154	180	173	151	136	146	138	138	139	133	195	155

Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
3	ID:01N00827	HIHITAH	913	910		1028	885	824	864	784	740	830	883	967	839
4	ID:01N11068	NGAURANGA - SH1 Sth Bound Lanes	678	603	669	636	557	588	556	571			744	818	735
4	ID:00200895	CLAREVILLE - Nth of Whites Line	595	571	683	679	589	546	497	463	506	600	606	660	588
4	ID:00200937	RIMUTAKA - Pukuratahi River Brg	368	345	424	389	346	333	302	278	251		335	391	342
4	ID:01N01036	PUKERUA BAY - (Piezo Axle Classification)	1814	1636	1935	2020	1812	1803	1695	1641	1745	1794	1732	1874	1769
4	ID:01N21068	NGAURANGA - SH1 Nth Bound Lanes	689	634	758	738	688	710	688	703	701	703	697	766	586
4	ID:05800009	Pauatahanui East	562	528	623	640	613	673	656	641		659	630	707	666
4	ID:00210979	NGAURANGA - SH2 Sth Bound Lanes	803	690	797	813	707	750	706	700			870	963	824
4	ID:00220979	NGAURANGA - SH2 Nth Bound Lanes	712	639	796	832	723	771	722	708	755	780	756	865	567
4	ID:00210965	KELSON - SB	687	624	785	749	668	693	661	634	648	672	646	754	672
4	ID:00220965	KELSON - NB	599	518	659	642	569	590	558	548	555	587	562	646	600
4	ID:00600122	STOKE - Whakatu Drive at Songer St	1208	1246	1421	1467	1341	1297	1038	1141	1239	1252	1167	1349	1168
4	ID:00600232	MURCHISON	314	384	356	341	289	247	224		237	258	293	320	314
4	ID:00600100	HIRA			588	562	480	406	408		440		430	501	453
4	ID:06000040	SH60 Riwaka	272	367	342	307	270	202	172	145	165	176	193	254	253
4	ID:01S00037	Blenheim	639	656	664	712	864		506		531	577	589	649	580
4	ID:06300096	ST ARNAUD	40	44	52	50	40	35	29		30	32	39	41	38
5	ID:01S00389	DUNSANDEL	1566	1513	1613	1611	1440	1324	1190	1245	1227	1434	1496	1627	1562
5	ID:01S00505	EVANS St Timaru	1573	1429	1575	1718	1560	1410	1227	1163	1306	1356	1561	1706	1485
5	ID:07300064	Springfield - West of Township	210	227	244	315	207	174	150	116	162	180	192	215	202
5	ID:01S00144	KAIKOURA - Nth of Hapuku River	528	529	567	570	516	422	421	422	429	473	480	534	478
5	ID:01S00522	ST ANDREWS	945	876	924	1013	947	839	716	672	758	884	926	975	912
5	ID:00700108	LEWIS PASS	215	265	218	214	193	168	158	141	152	166	191	193	192
5	ID:07409005	QE II Drive East Of Main Nth Rd							792			629	592	707	611
5	ID:01S00285	WAIPARA - (WIM Site)	1097	959	1085	1188	1044	1031	1020	959	986	1191	1219	1344	1271
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB				1287	1168	1317	1140	1017	1074	1256	1274	1406	1238
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB				1228	1100	1283	1088	942	997	1150	1156	1289	1203
5	ID:00800059	FAIRLIE	305	335	304	279	258	194	171	149	168	199	224	276	303
5	ID:00600454	CHESTERFIELD	355	356	374	463	314	251	200	188	230	324	373	397	377
5	ID:00700239	AHAURA	194	196	225	233							205	235	
5	ID:00600398	PUNAKAIKI - Just Nth of Canoe Creek	122	128	145	131	102	73	57	57	72	90	101	113	105
6	ID:00800336	ALEXANDRA - Sth Near Butchers Dam	222	264	223	222	202	185	159	150	167	186	195	209	236
6	ID:01S10713	BURNSIDE - Sth Bound	981	761		943	786	832	755	702	736	837	840	900	834
6	ID:01S20713	BURNSIDE - Nth Bound	834	664	812	839	695	667	590	532	570	659	670	710	643
6	ID:01S50713	BURNSIDE - On Ramp - Nth Bound	111	111	128	146	118	127	113	117	112	113	111	123	111
6	ID:01S60713	BURNSIDE - Off Ramp - Sth Bound	193	185	233	253	200	201	194	179	184	191	192	206	187
6	ID:01S40713	BURNSIDE - Off Ramp - Nth Bound	178	179	246	233	191	138	126	112	113	124	129	146	140
6	ID:01S40714	Burnside - Nth Bound Off Ramp	71	73	92	84	72	68	66	64	64	71	70	71	64
6	ID:01S00765	MILTON	832	785	932	929	814	765	621	556	599	786	868	928	890
6	ID:06A00001	FRANKTON	964	986	983	973		737	695	756	792	813	817	939	957
6	ID:08500161	GALLOWAY	113	136	142	135	137	117	110	95	105	114	111	126	127
6	ID:08800004	RAVENSBOURNE	512	453	558	561	496	504	424	354	389	454	465	555	487
6	ID:01S00921	INVERCARGILL	334	309	372	383	337	341	339	325	374	375	366	395	343
6	ID:00601147	WINTON	537	473	521	519	470	427	361	324	409	454	442	434	476
6	ID:00601082	FIVE RIVERS			315	272	242	164	122	106	127	143	170	227	238
6	ID:01S00854	GORE	525	507	572	575	518	478	365	340	405	478	533	573	560
6	ID:09400141	TE ANAU	155	173	178	163	129	78	65	48	66	81	104	160	156