



## Traffic Volumes Monthly Report September 2012

This report has been prepared for the benefit of the NZ Transport Agency (NZTA). No liability is accepted by this company or any employee or sub-consultant of this company with respect to its use by any other person.

This disclaimer shall apply notwithstanding that the report may be made available to other persons for an application for permission or approval or to fulfil a legal requirement.

#### Quality Assurance Statement

Project Manager: Gerald Wen

Prepared by: Gerald Wen

Reviewed by: Philip Blagdon

Approved for issue by: David Darwin

#### Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	5/10/2012	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 2012.

In September 2012, compared with September 2011, the MADT for all vehicles decreased by 2.6%; the MADT for heavy vehicles decreased by 6.2%.

---

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

Topic	See Page
Overview	1
Technical Notes	2
Key Sites Result	3
Results: All Vehicles	4
Results: Heavy Vehicles	5
The Graph of National MADT change ( 5 years)	6
Appendix	

---

## Technical Notes

**What is MADT?** Monthly Average Daily Traffic (MADT) is the average of daily traffic volume in a given month. For each monitored location (count site), it is reported separately by MADT of all vehicles and MADT of heavy vehicle<sup>1</sup>. 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.

---

**How is MADT change reported each month?** We report MADT change of all vehicles and heavy vehicles, by national and regional level. We first calculate the percent change in MADT (all and heavy vehicles separately) of each sample site for the current month compared to the same month in the previous year. We then calculate the median of those percent changes across all sample sites and report it as the national MADT change for the current month. To report each regional MADT change, we calculate the median of percent changes of the sample sites in each region.

---

**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 106 telemetry<sup>2</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.

NZ Transport Agency Region	Number of Telemetry Sites
Northland and Auckland	16
Waikato and Bay of Plenty	25
Taranaki, Manawatu-Wanganui, Hawkes Bay and Gisborne	19
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.

---

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

<sup>2</sup> Telemetry sites are continuously monitored 24/7.

---

**Results:  
Monthly  
traffic at key  
sites**

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

The MADT values for September 2011, September 2012 and percentage of difference compared are reported in the table below.

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) September- 11	MADT (All Vehicles) September- 12	% Change
Auckland harbour bridge (SH1)	Auckland	166266	170511	3%
Greenwood (SH1)	Hamilton	21969	22284	1%
Ngauranga Interchange (SH 1 and SH2 NB only)	Wellington	43879	41623	-5%
Waimakariri Bridge	Christchurch	39453	41179	4%
Burnside	Dunedin	25741	25124	-2%

In September 2012, the sites representing Auckland, Christchurch and Hamilton recorded an increase in MADT; while the sites representing Wellington and Dunedin showed a decrease in MADT, compared to the same period in the previous year.

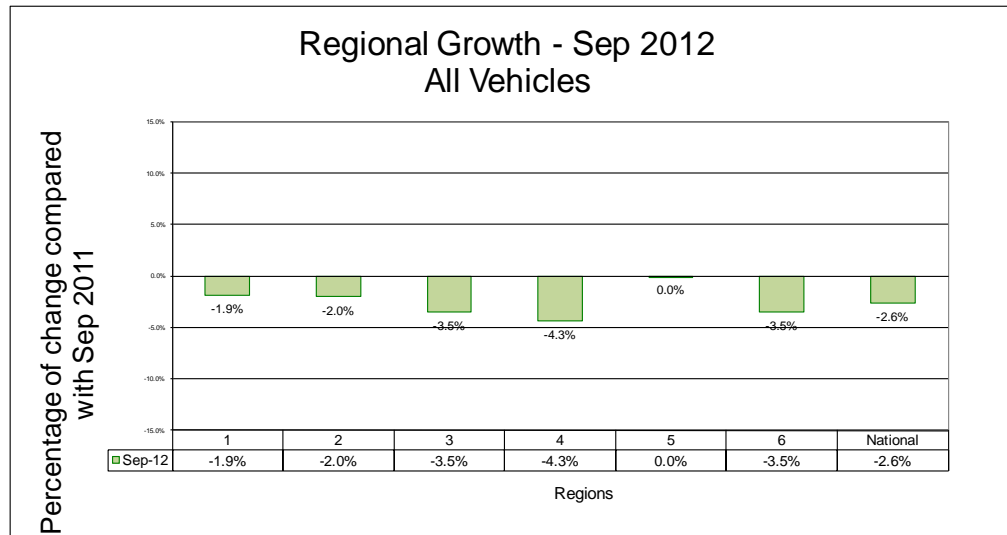
---

# Results: All Vehicles

## Regions

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

The graph below shows the MADT change compared with the same month last year. The MADT values here represent all vehicle types. In September 2012, most regions recorded a decrease except region 5 which remained at the same level. Nationally, the MADT change for all vehicles decreased by 2.6%, compared with September 2011.



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 (as above) dated back to January 2008 are attached to this report.

## All sites

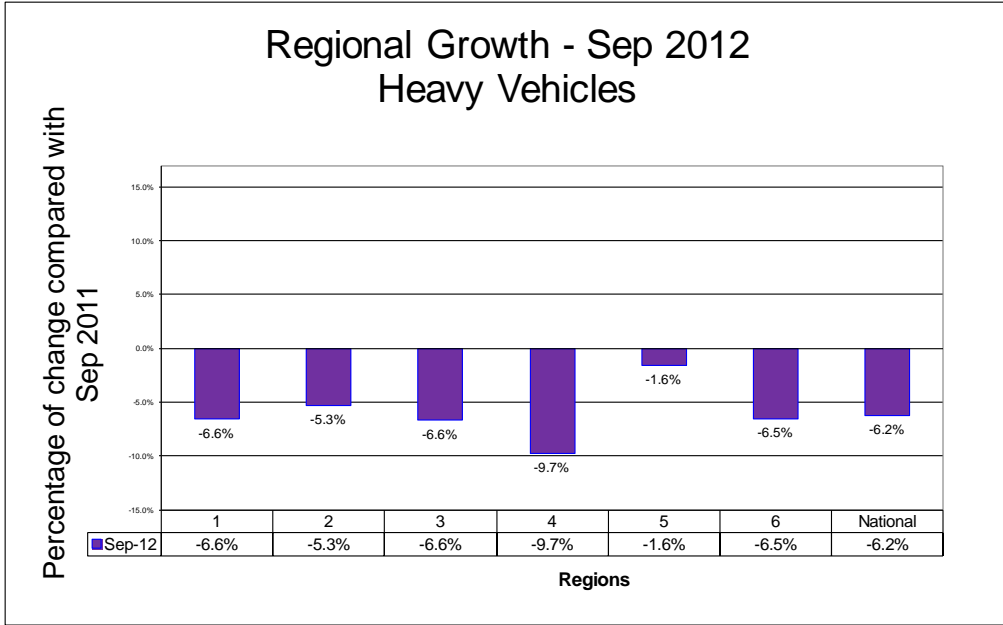
A table of MADT (all vehicles) values for all sample sites is attached to this report.

# Results: Heavy Vehicles

**Regions**

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

The graph below shows the MADT change compared with the same month last year. The MADT values here represent heavy vehicles only. In September 2012, all regions had a decrease. Nationally, the MADT change for heavy vehicles decreased by 6.2%, compared with September 2011.



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**

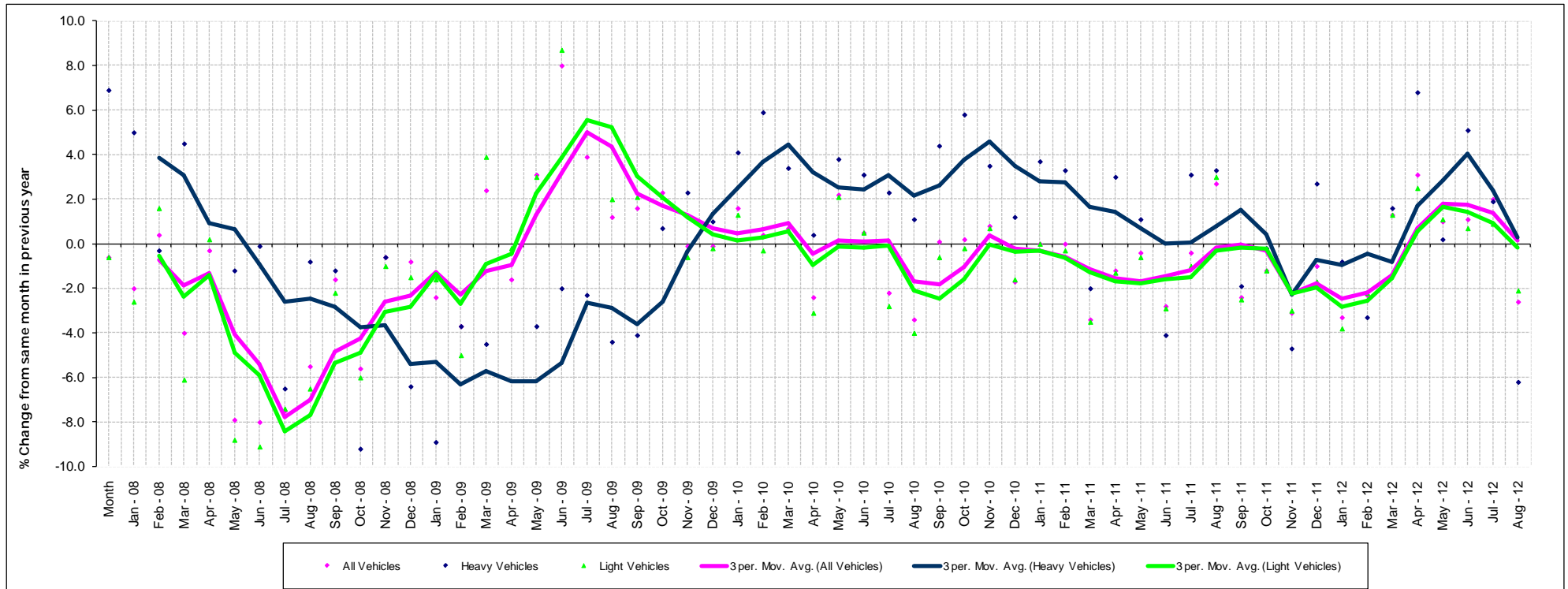
The graphs (as above) dated back to January 2008 are attached to this report.

**All sites**

A table of MADT (heavy vehicles) values for all sample sites for 2012 is attached to this report.

# Summary of MADT Change from Same Month in Previous Year

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





Year	2008			2009			2010			2011			2012		
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	-0.6	-0.6	6.9	-0.8	-1.5	-6.4	-0.1	-0.2	1.0	-1.7	-1.6	1.2	-1.0	-1.7	2.7
February	-2.0	-2.6	5.0	-2.4	-1.6	-8.9	1.6	1.3	4.1	0.0	0.0	3.7	-3.3	-3.8	-0.8
March	0.4	1.6	-0.3	-3.7	-5.0	-3.7	0.4	-0.3	5.9	0.0	-0.3	3.3	-2.3	-2.2	-3.3
April	-4.0	-6.1	4.5	2.4	3.9	-4.5	0.7	0.6	3.4	-3.4	-3.5	-2.0	1.3	1.3	1.6
May	-0.3	0.2	-1.4	-1.6	-0.2	-10.3	-2.4	-3.1	0.4	-1.2	-1.3	3	3.1	2.5	6.8
June	-7.9	-8.8	-1.2	3.1	3.0	-3.7	2.2	2.1	3.8	-0.4	-0.6	1.1	1	1.1	0.2
July	-8.0	-9.1	-0.1	8.0	8.7	-2.0	0.5	0.5	3.1	-2.8	-2.9	-4.1	1.1	0.7	5.1
August	-7.5	-7.4	-6.5	3.9	5.0	-2.3	-2.2	-2.8	2.3	-0.4	-1.0	3.1	2.0	0.9	1.9
September	-5.5	-6.5	-0.8	1.2	2.0	-4.4	-3.4	-4.0	1.1	2.7	3.0	3.3	-2.6	-2.1	-6.2
October	-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	-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	-0.6	-1.0	-0.6	-0.1	-0.6	2.3	0.8	0.7	3.5	-3.1	-3	-4.7			

## Appendices

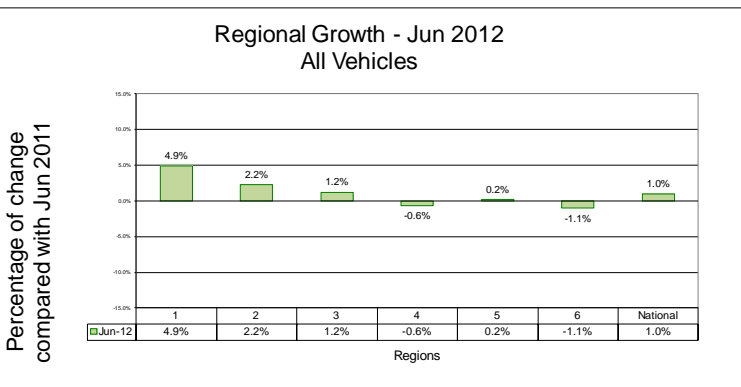
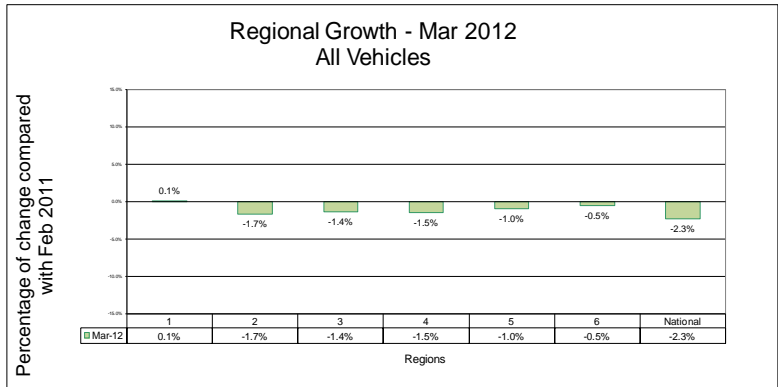
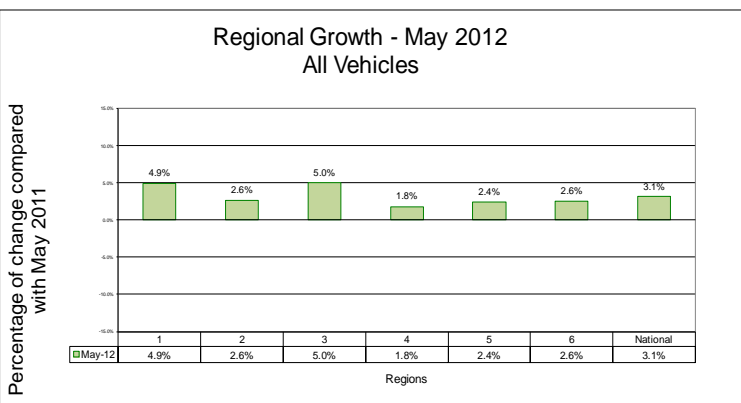
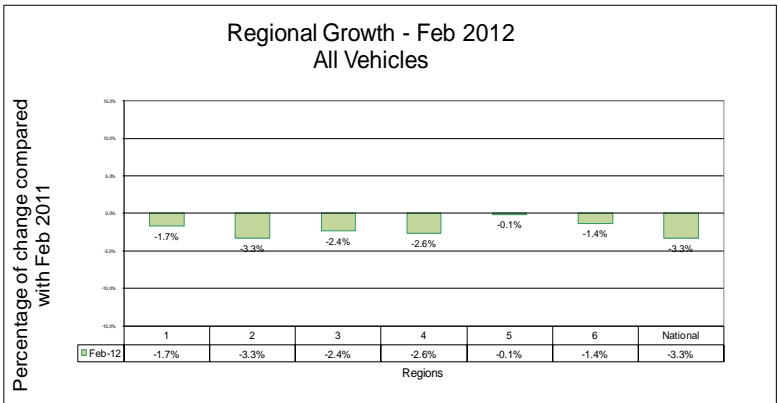
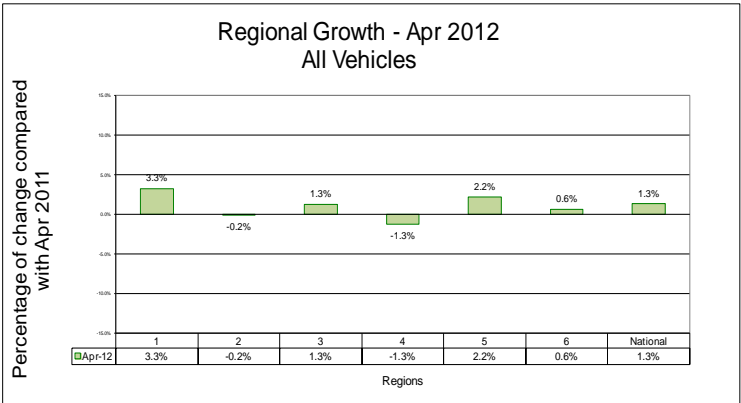
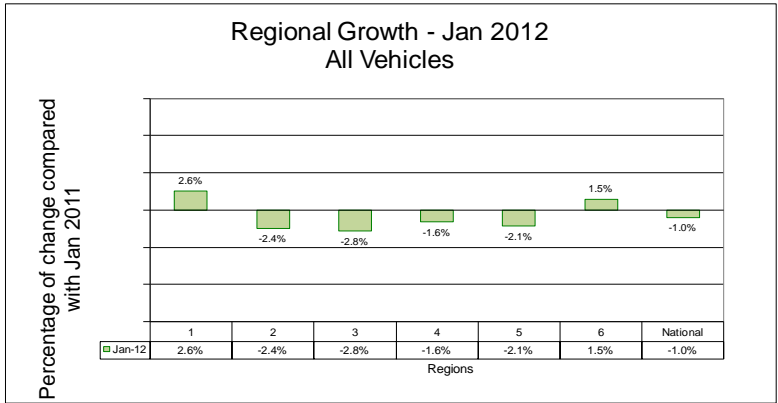
---

Current and Previous Years Growth Graphs: 2012, 2011, 2010, 2009 and 2008

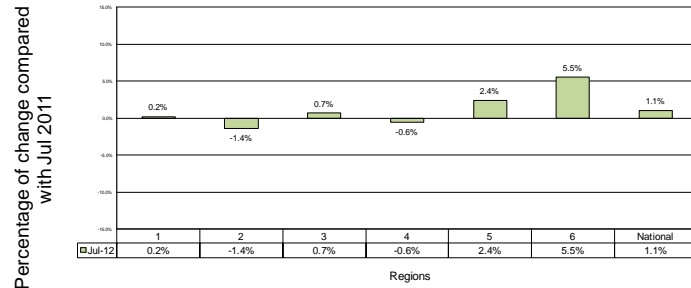
- All Vehicles
- Heavy Vehicles

MADTs of the sample sites for the past thirteen months

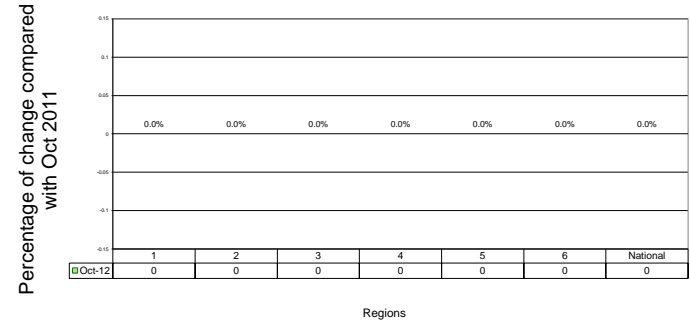
- All Vehicles
- Heavy Vehicles



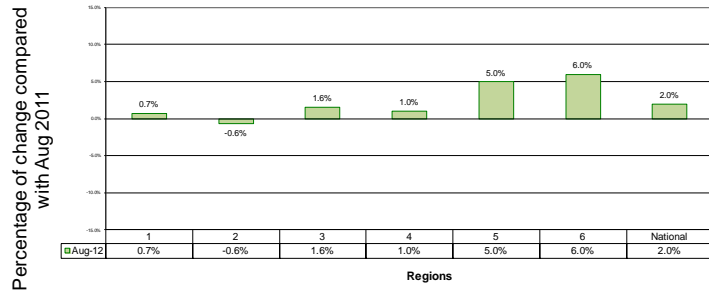
Regional Growth - Jul 2012  
All Vehicles



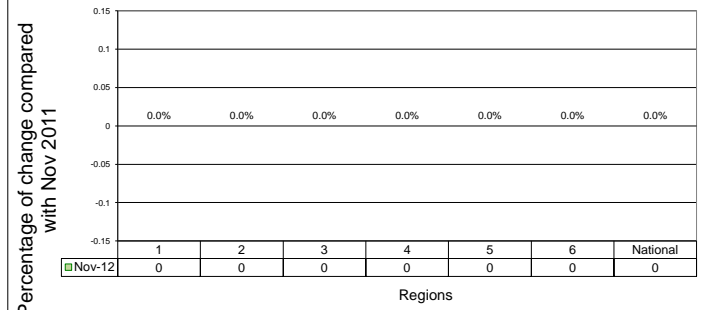
Regional Growth - Oct 2012  
All Vehicles



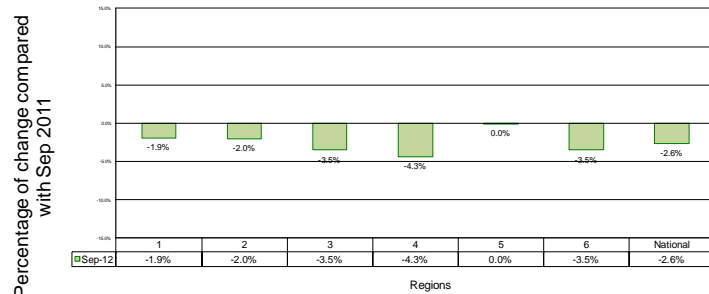
Regional Growth - Aug 2012  
All Vehicles



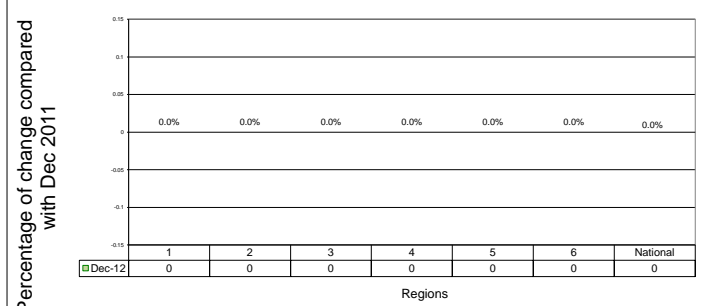
Regional Growth - Nov 2012  
All Vehicles

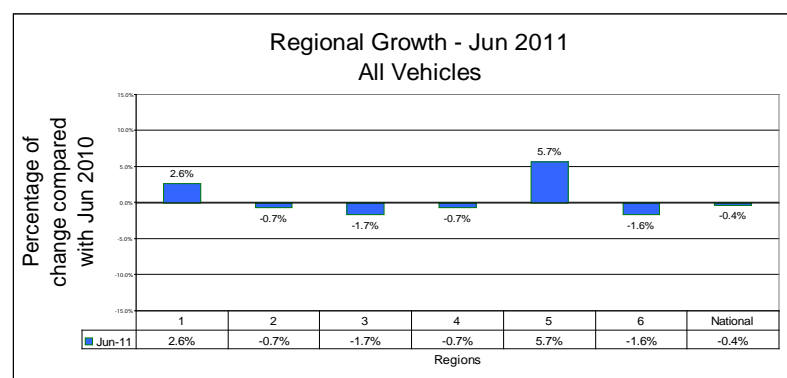
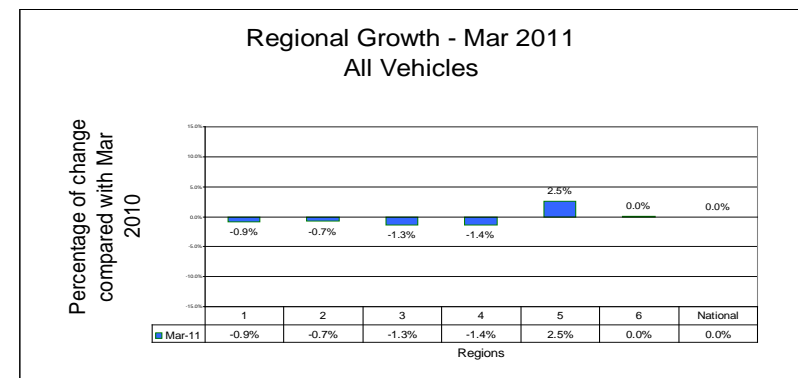
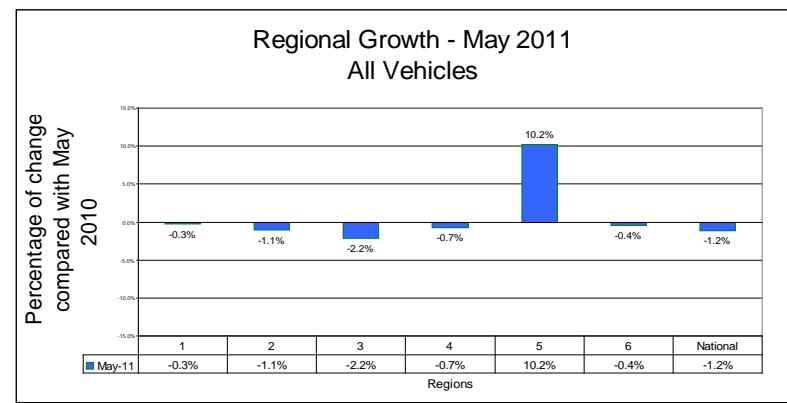
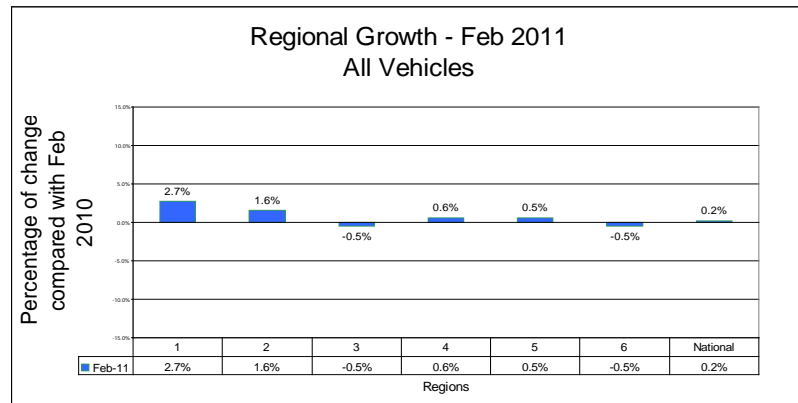
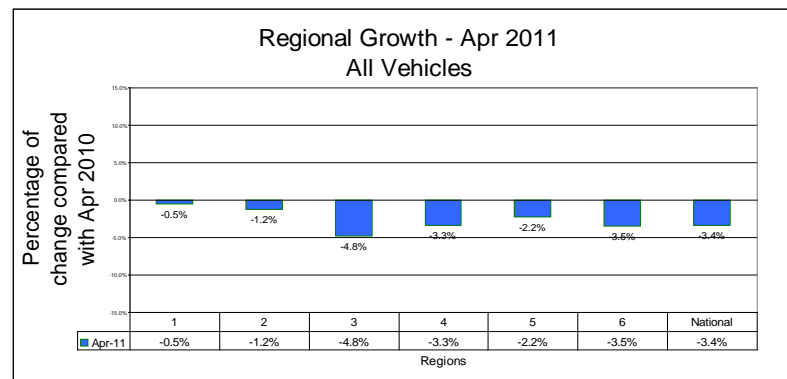
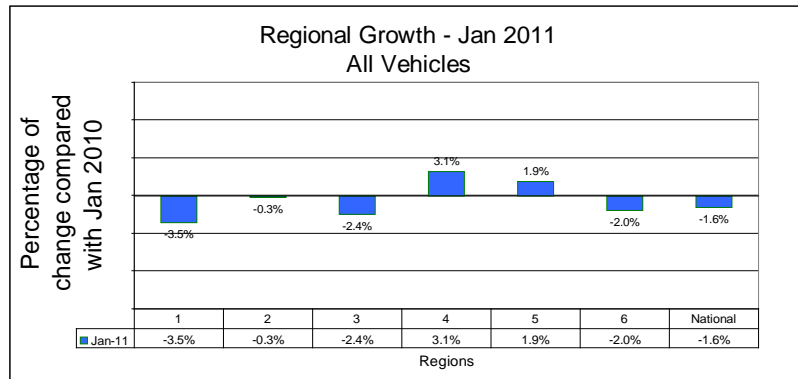


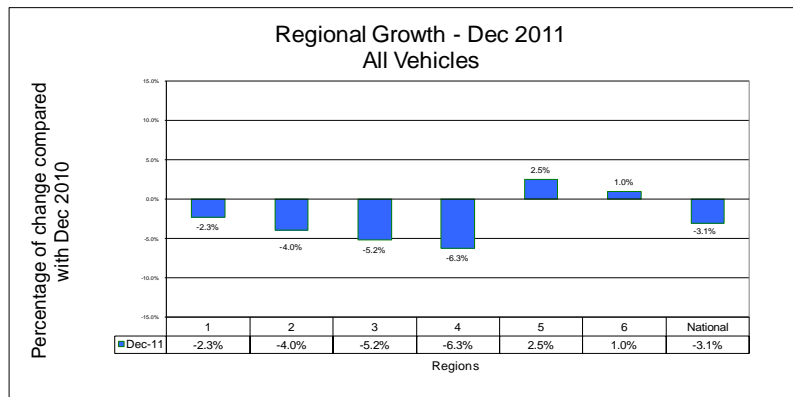
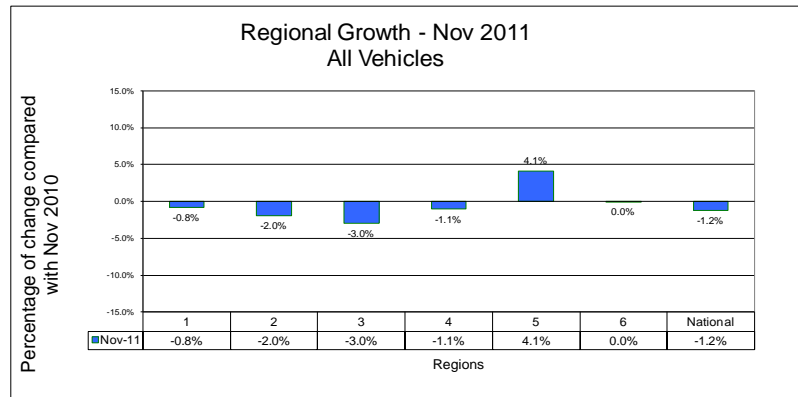
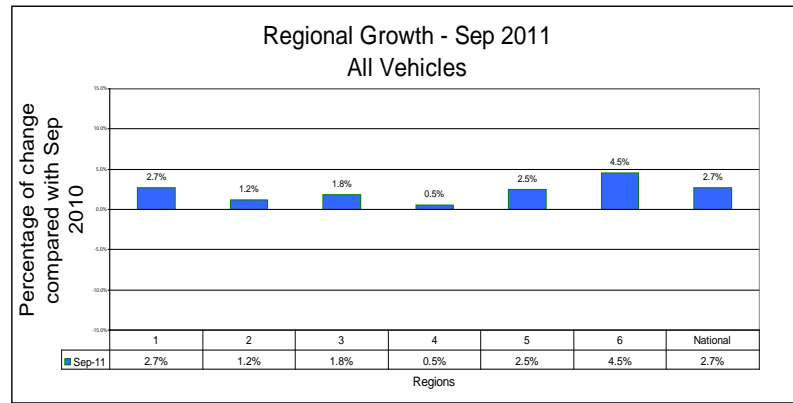
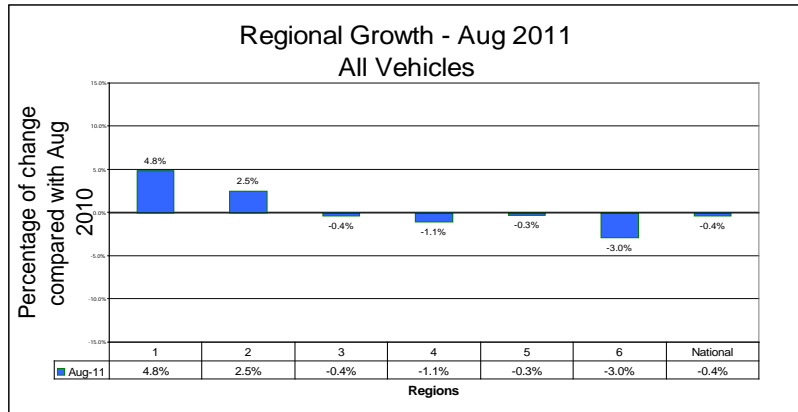
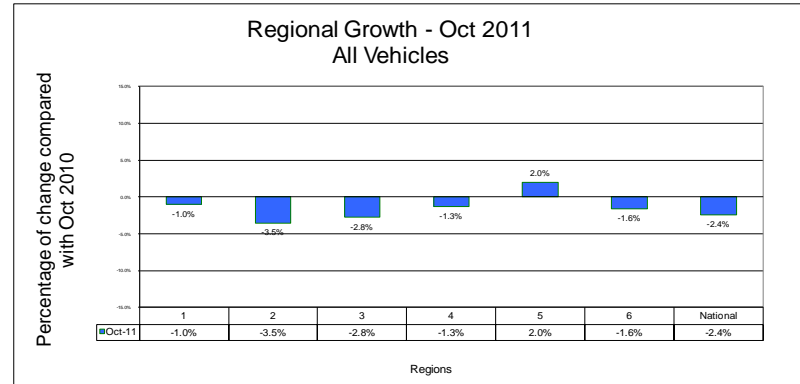
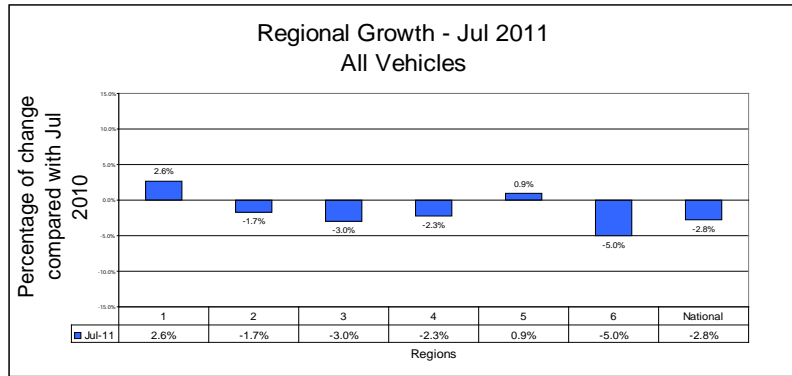
Regional Growth - Sep 2012  
All Vehicles

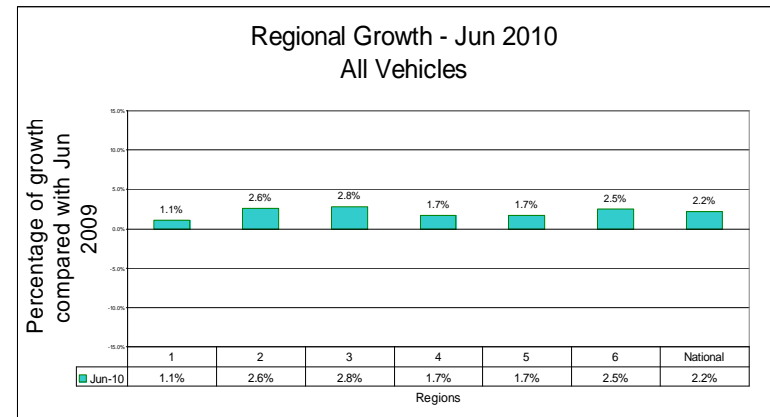
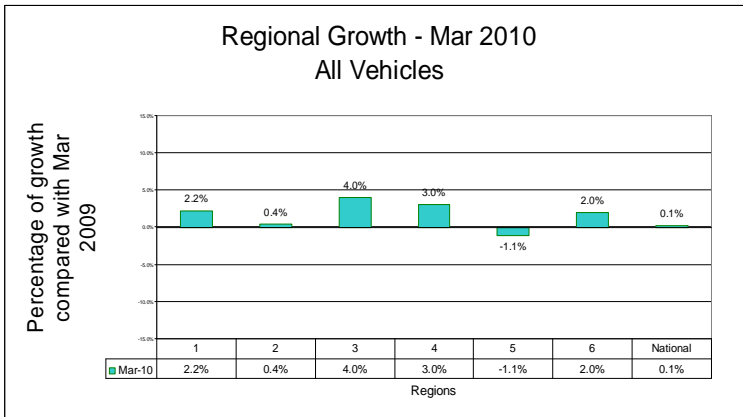
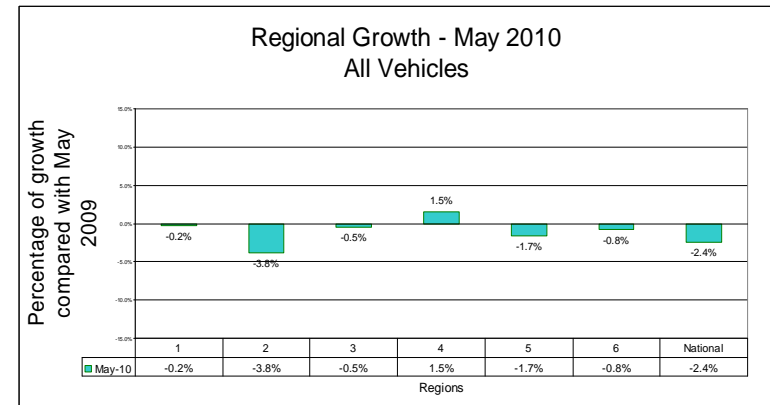
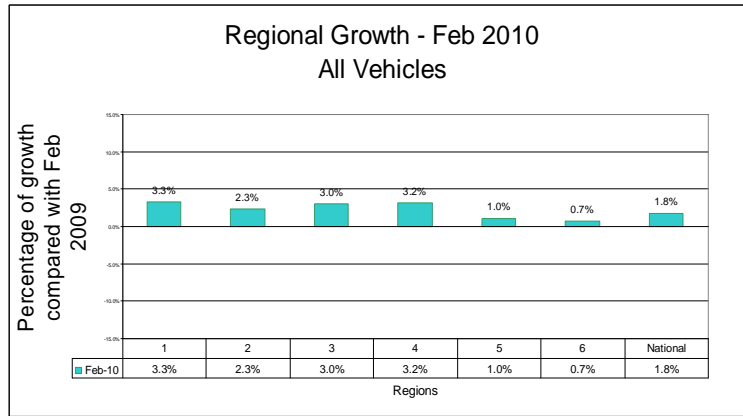
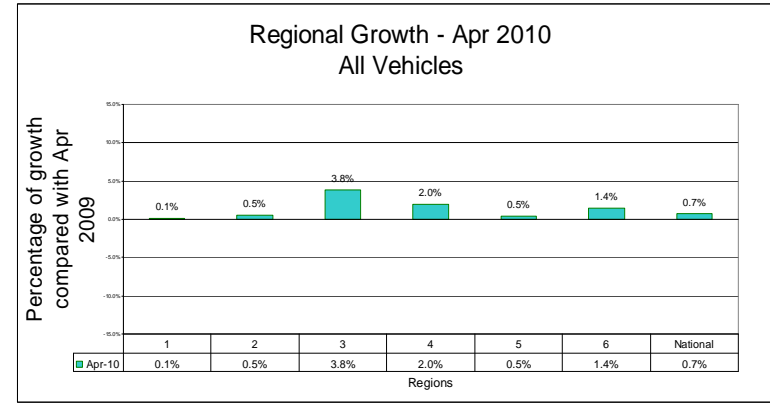
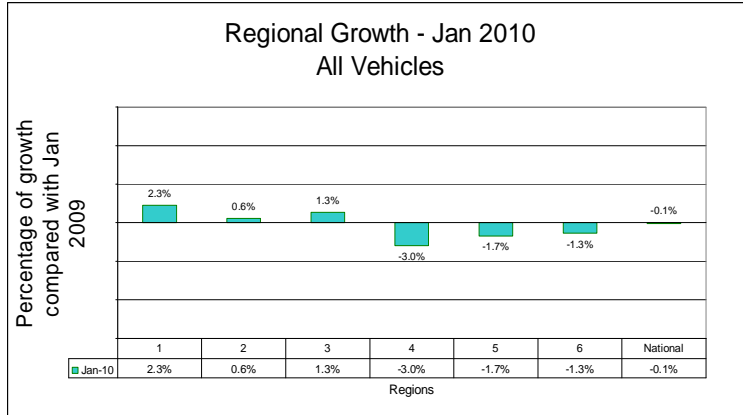


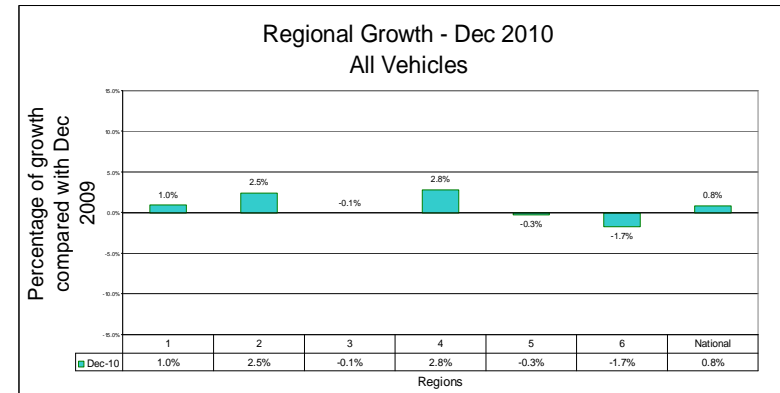
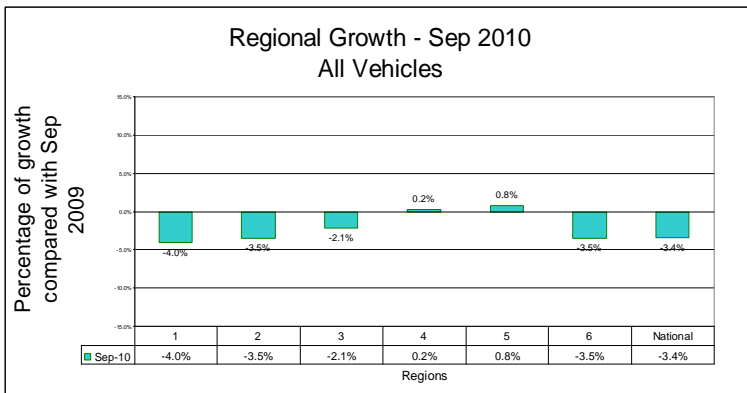
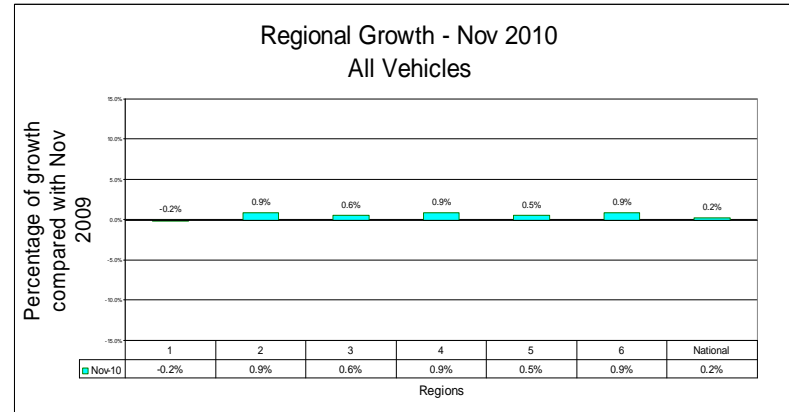
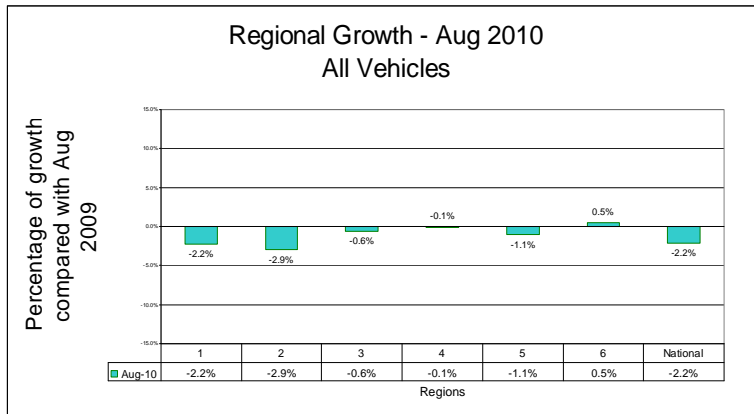
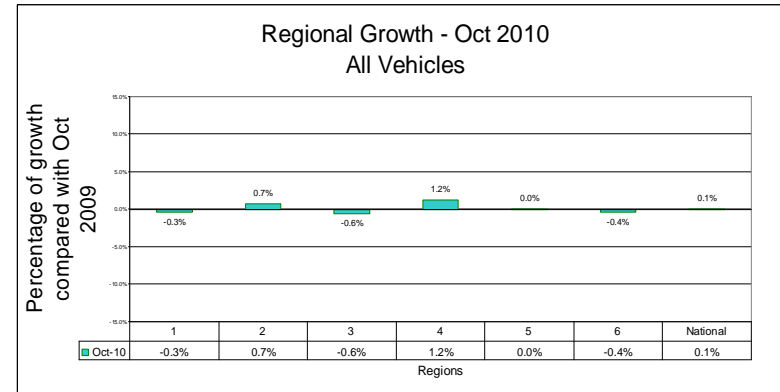
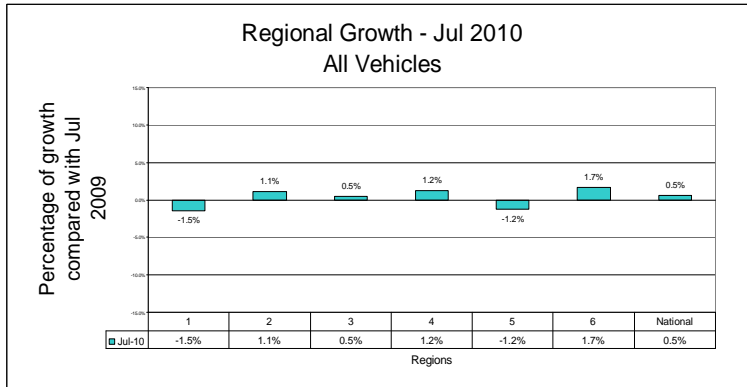
Regional Growth - Dec 2012  
All Vehicles





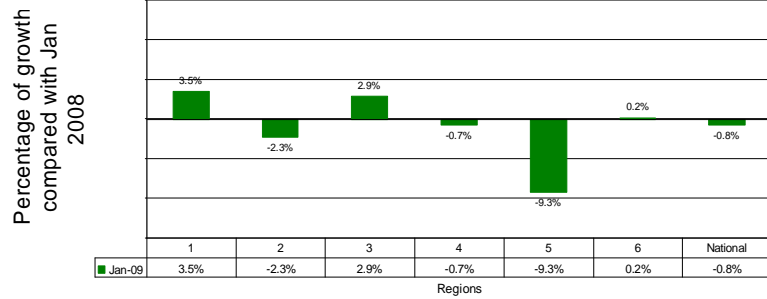




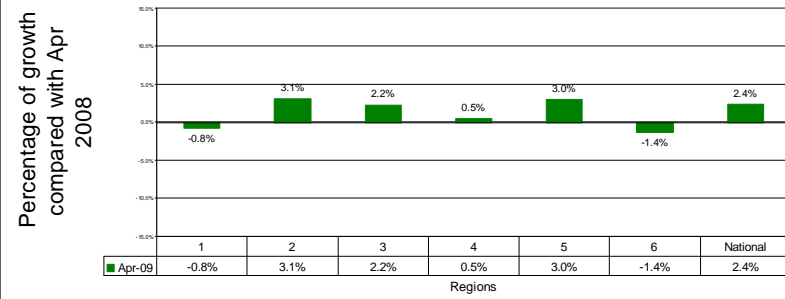




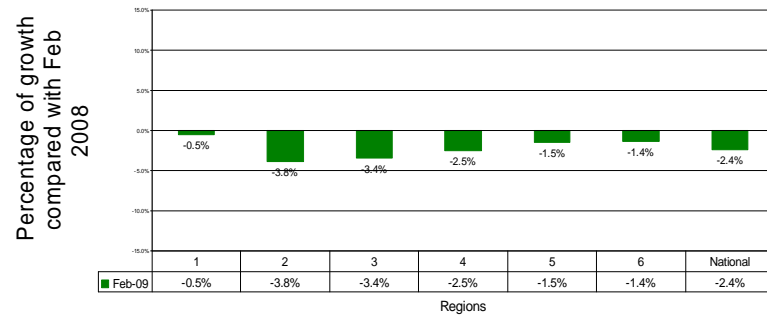
Regional Growth - Jan 2009  
All Vehicles



Regional Growth - Apr 2009  
All Vehicles



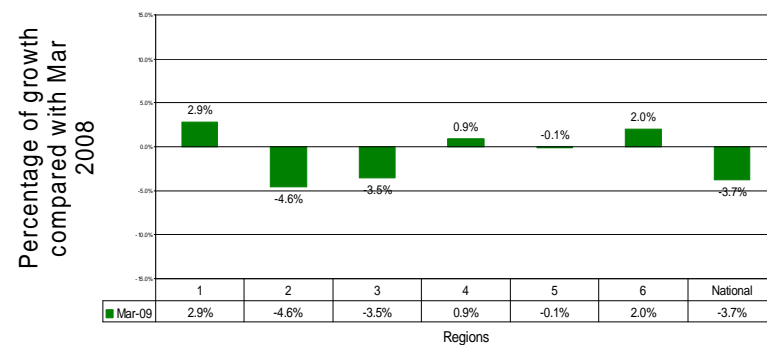
Regional Growth - Feb 2009  
All Vehicles



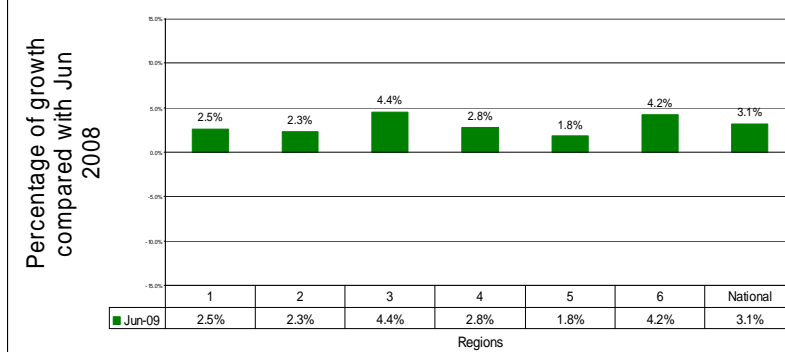
Regional Growth - May 2009  
All Vehicles



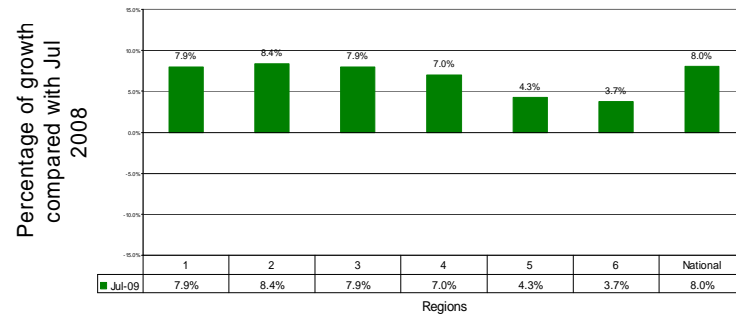
Regional Growth - Mar 2009  
All Vehicles



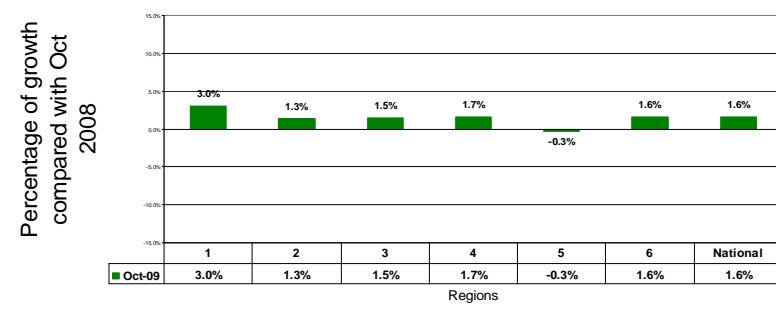
Regional Growth - Jun 2009  
All Vehicles



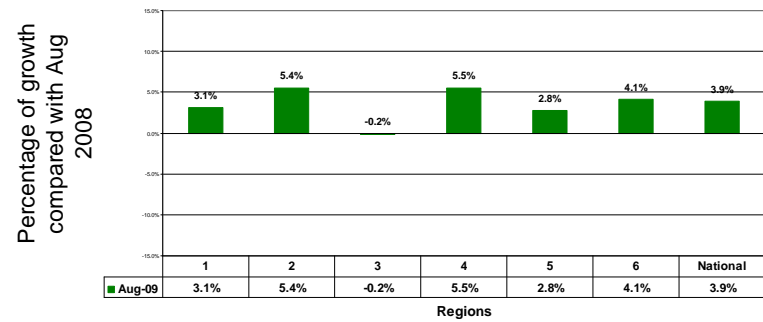
Regional Growth - Jul 2009  
All Vehicles



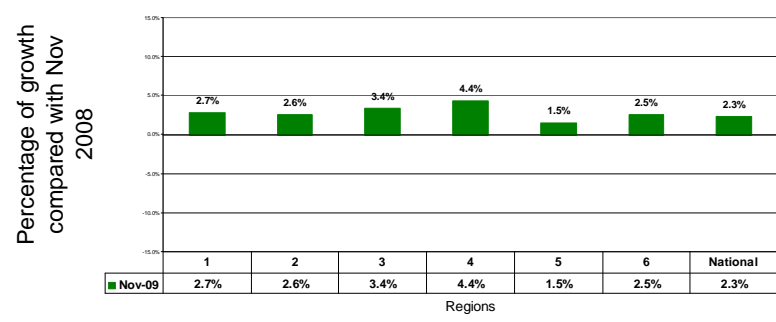
Regional Growth - Oct 2009  
All Vehicles



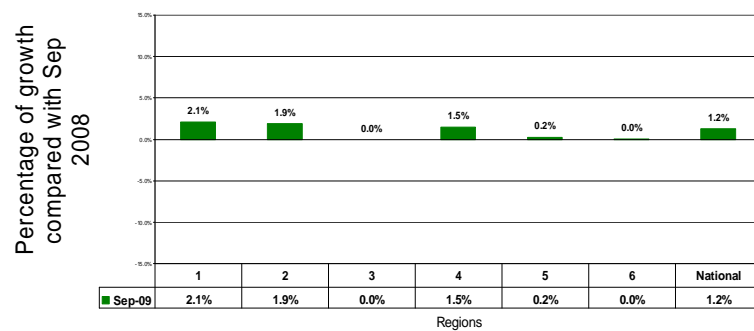
Regional Growth - Aug 2009  
All Vehicles



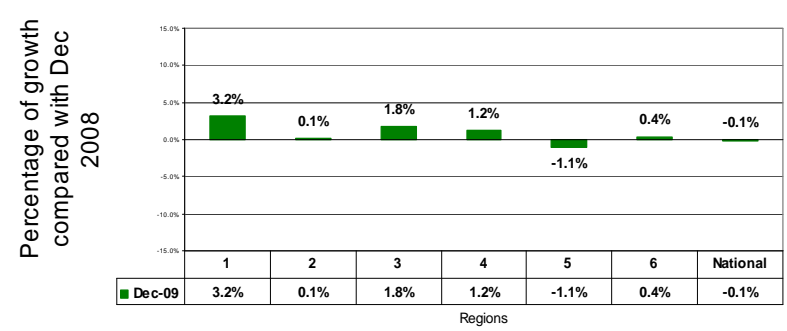
Regional Growth - Nov 2009  
All Vehicles



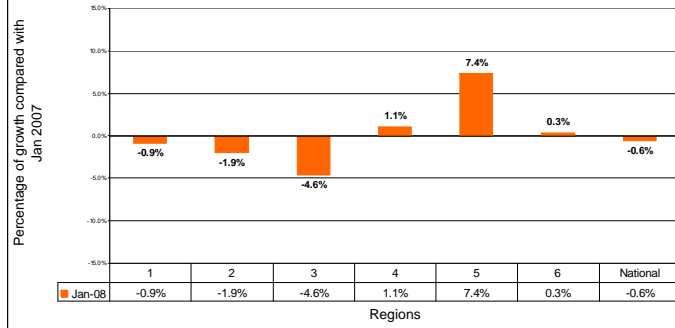
Regional Growth - Sep 2009  
All Vehicles



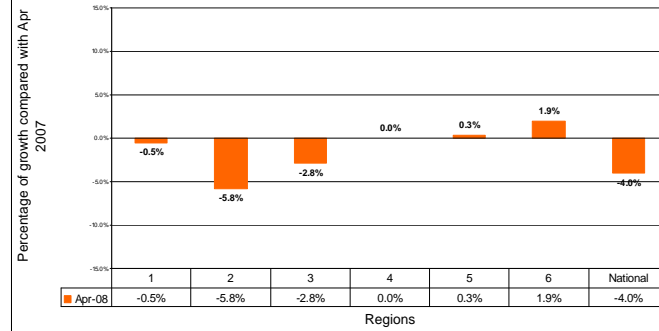
Regional Growth - Dec 2009  
All Vehicles



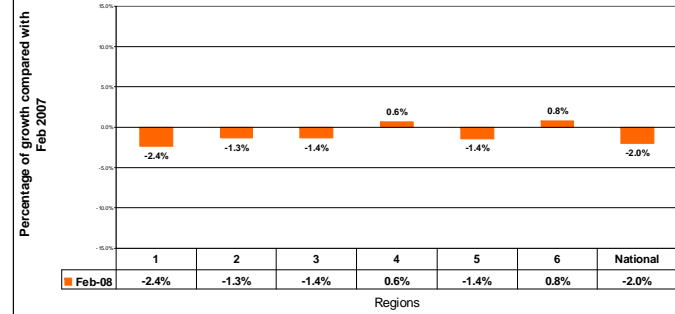
Regional Growth - Jan 2008  
All Vehicles



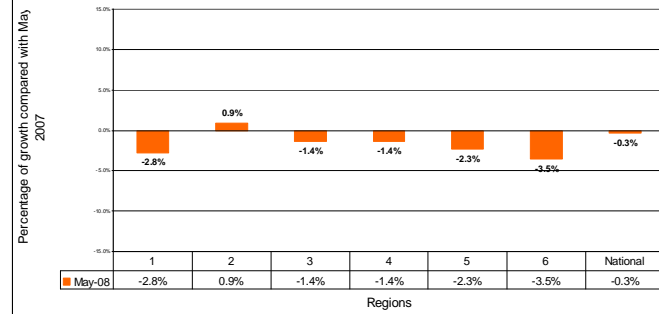
Regional Growth - Apr 2008  
All Vehicles



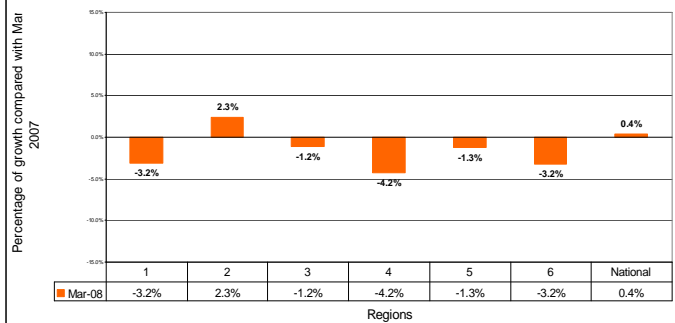
Regional Growth - Feb 2008  
All Vehicles



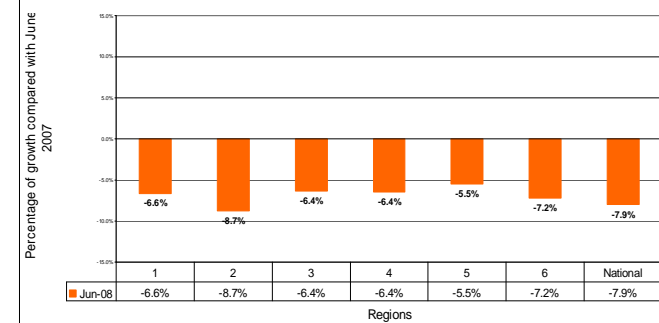
Regional Growth - May 2008  
All Vehicles



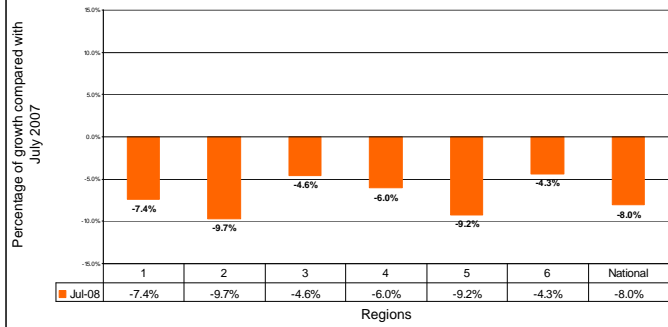
Regional Growth - Mar 2008  
All Vehicles



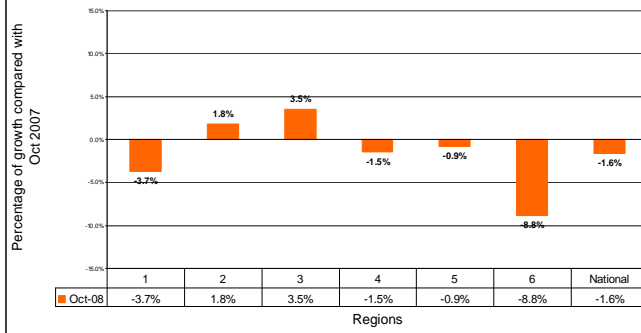
Regional Growth - June 2008  
All Vehicles



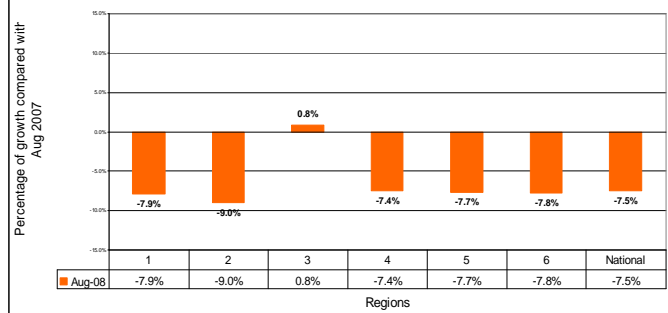
Regional Growth - July 2008  
All Vehicles



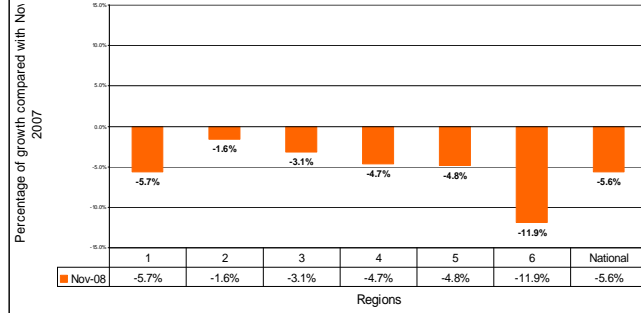
Regional Growth - Oct 2008  
All Vehicles



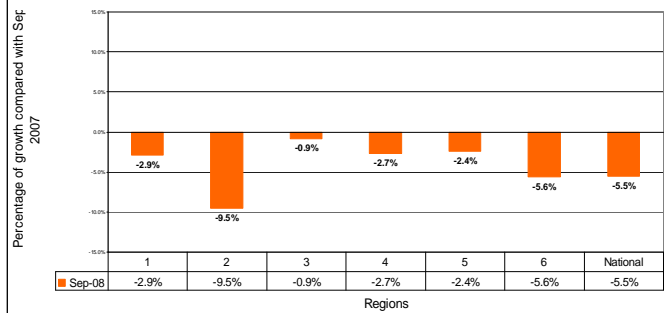
Regional Growth - Aug 2008  
All Vehicles



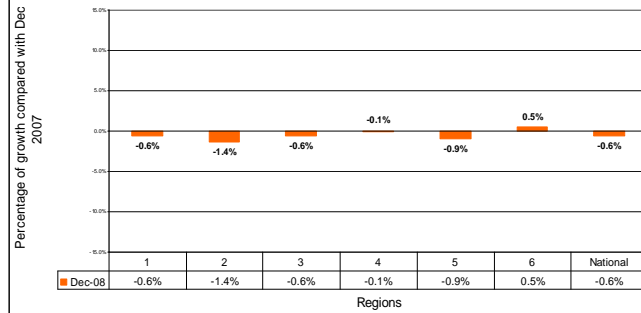
Regional Growth - Nov 2008  
All Vehicles

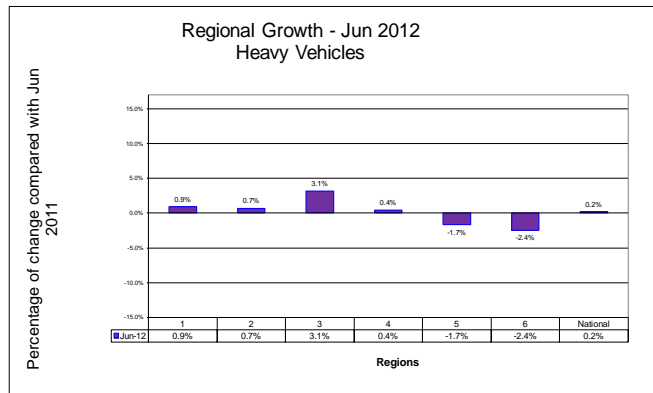
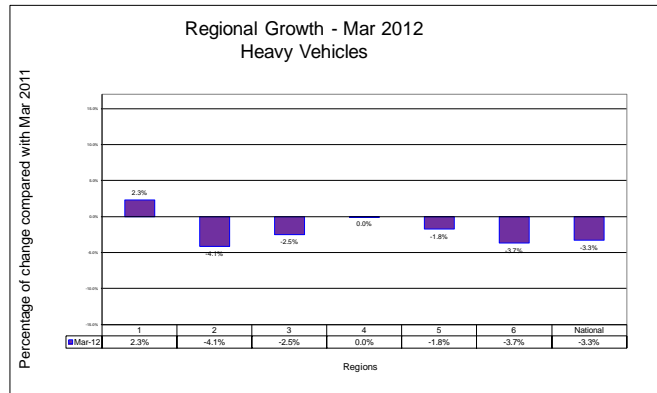
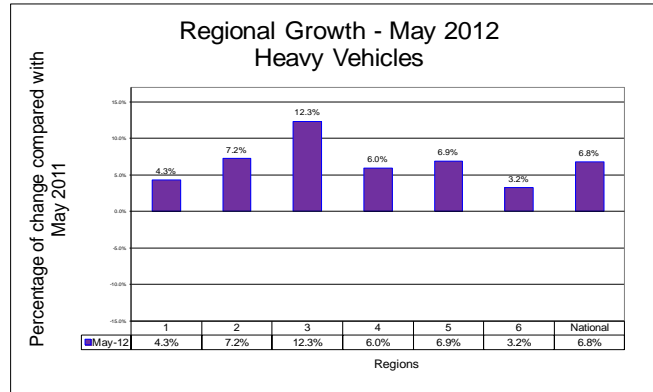
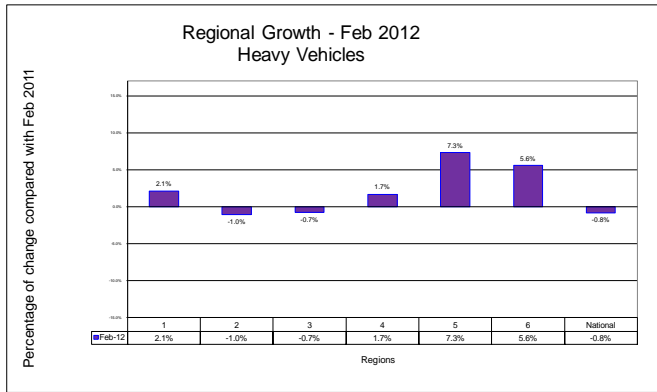
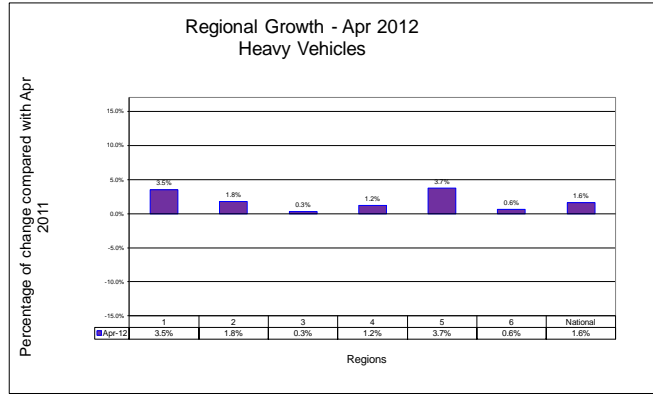
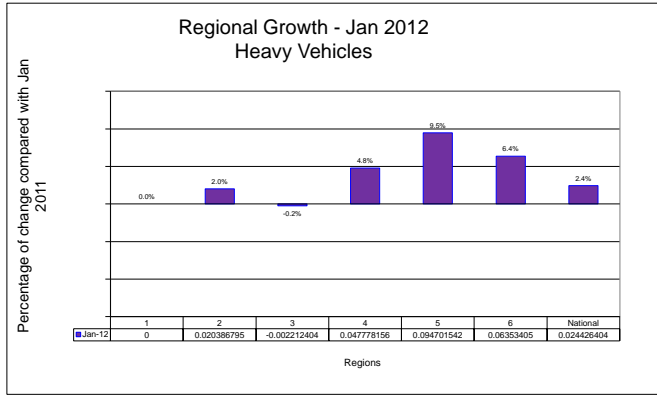


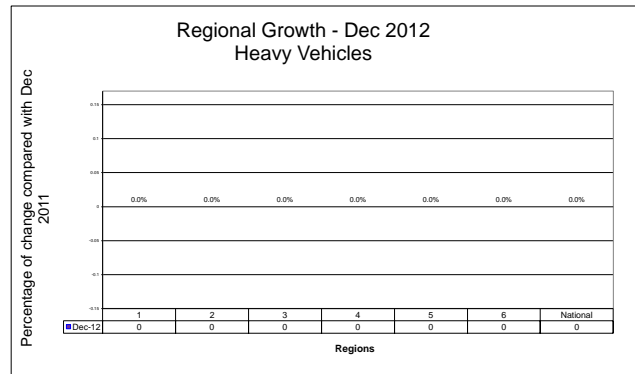
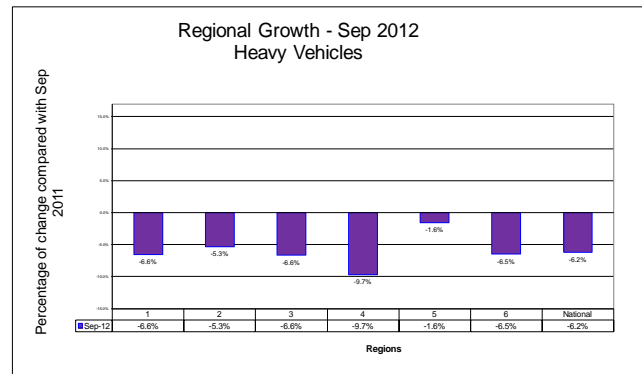
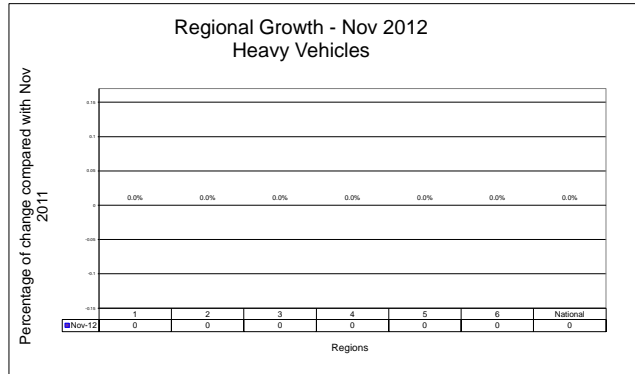
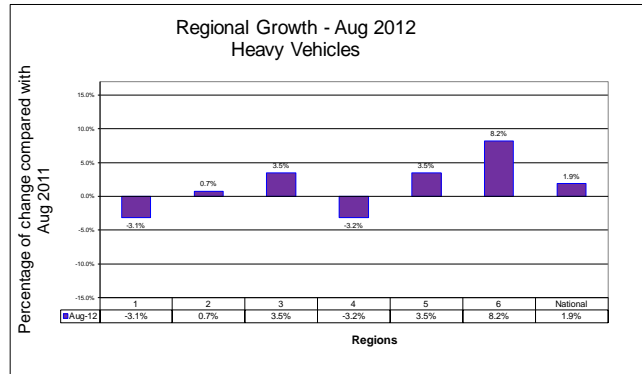
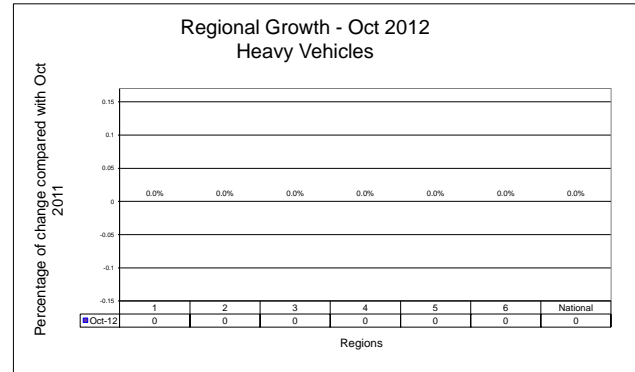
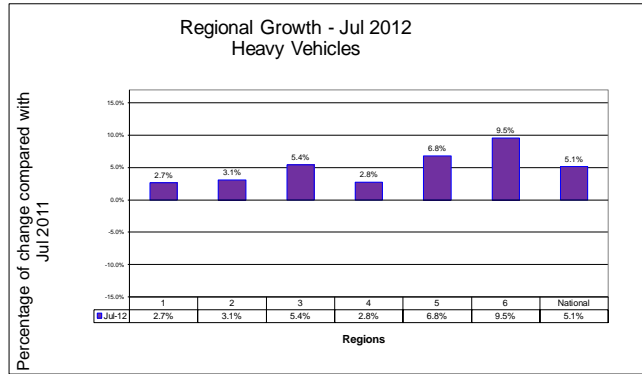
Regional Growth - Sep 2008  
All Vehicles

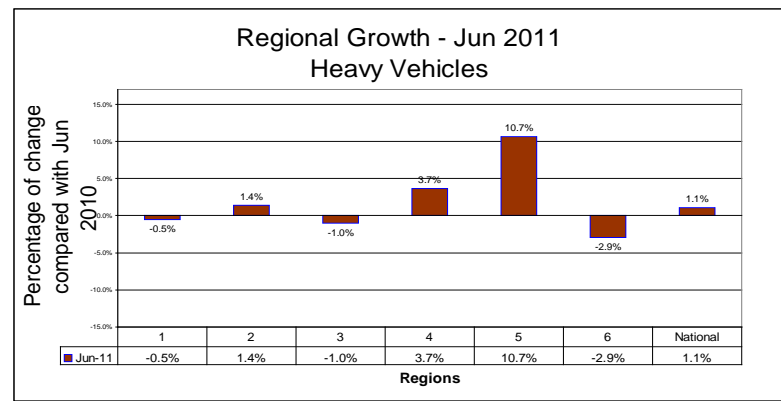
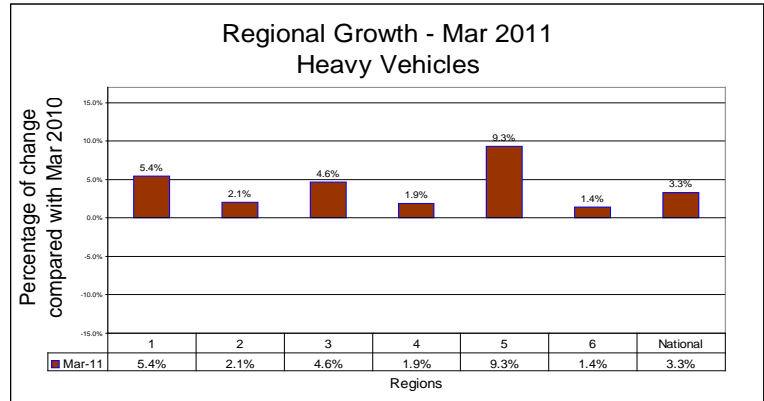
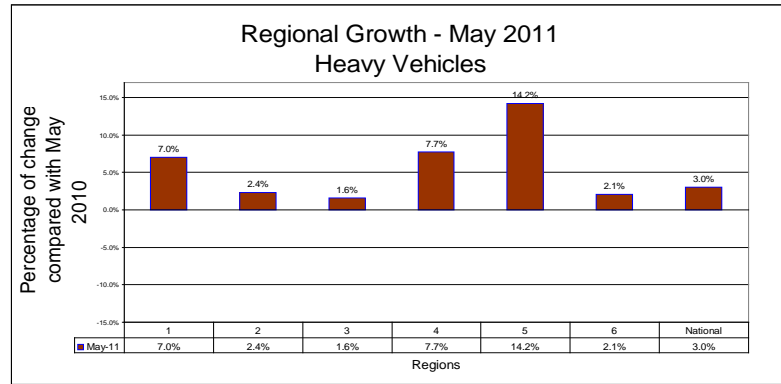
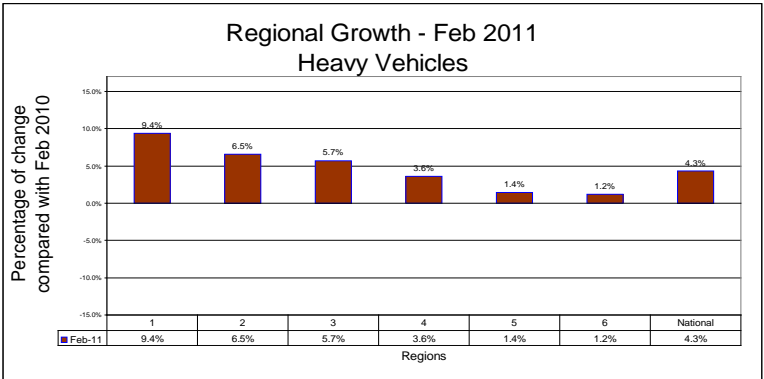
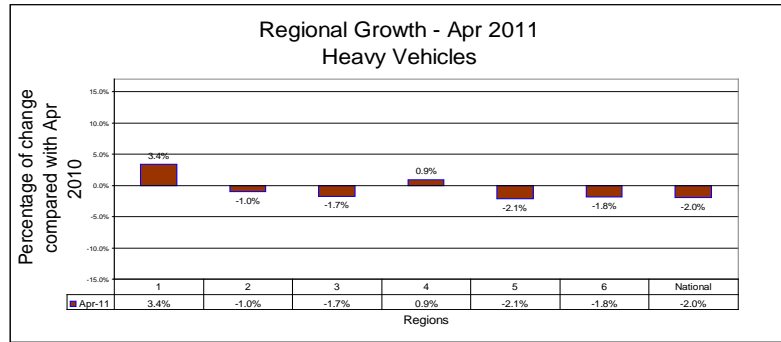
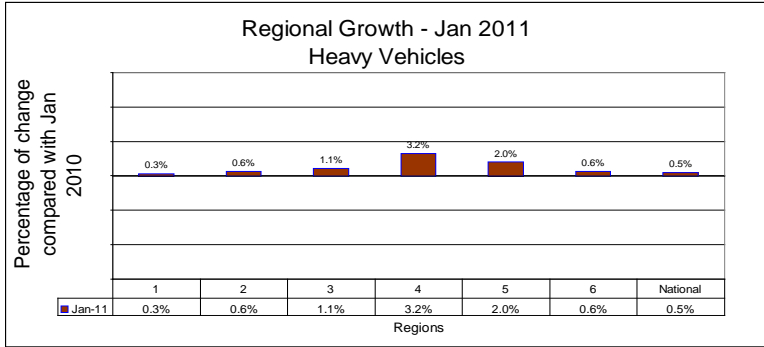


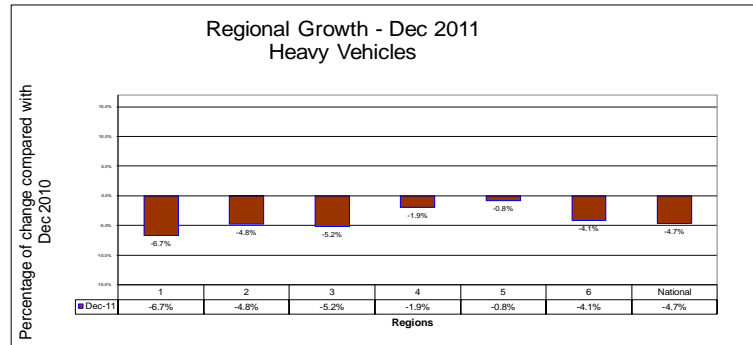
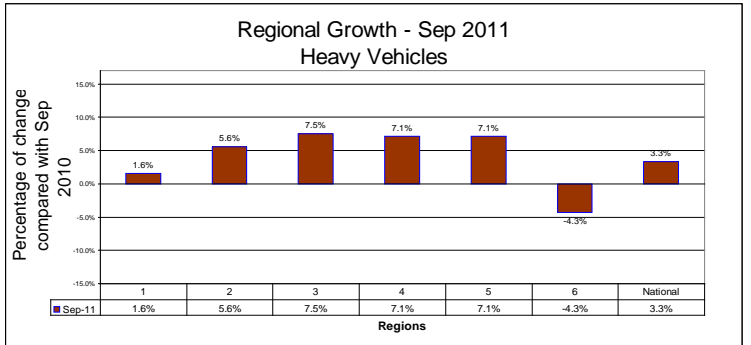
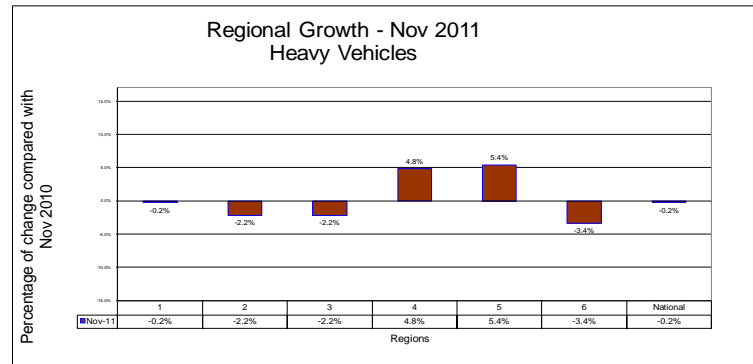
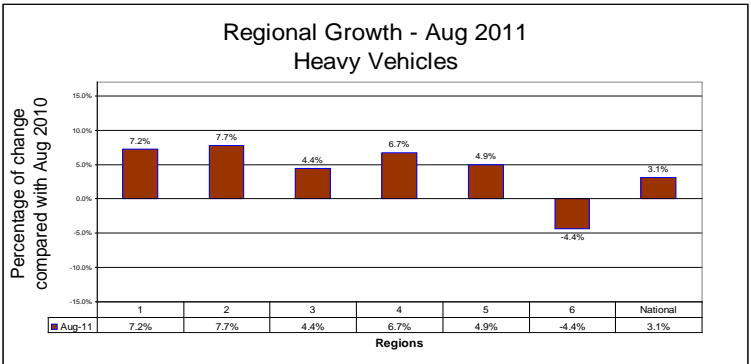
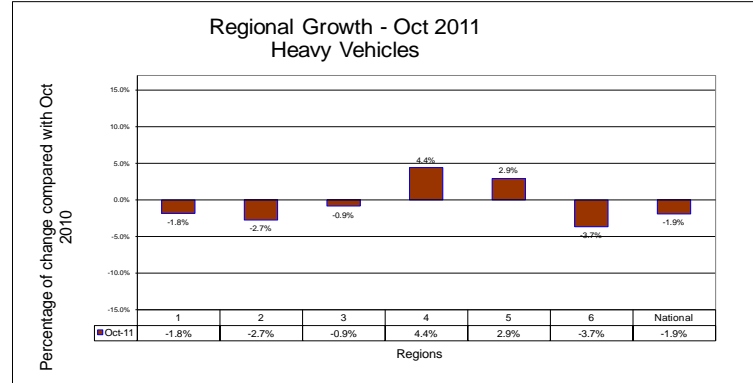
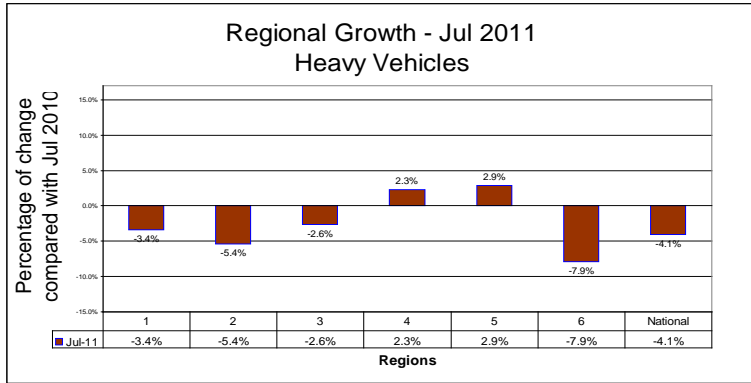
Regional Growth - Dec 2008  
All Vehicles





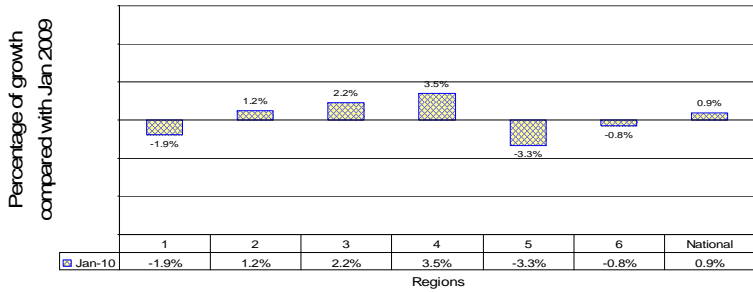




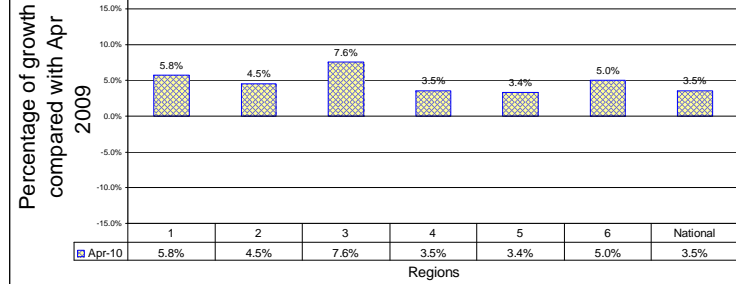




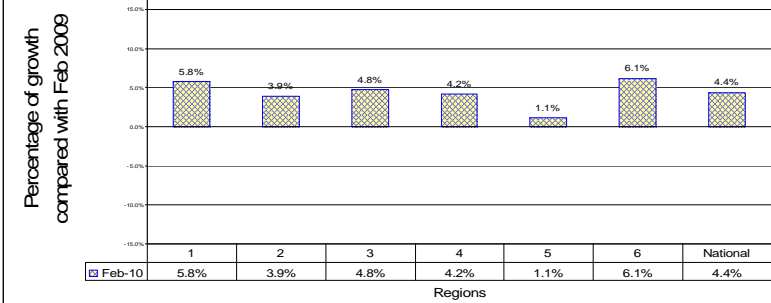
Regional Growth - Jan 2010  
Heavy Vehicles



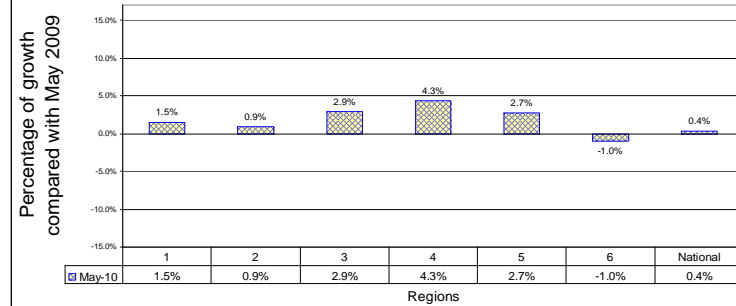
Regional Growth - Apr 2010  
Heavy Vehicles



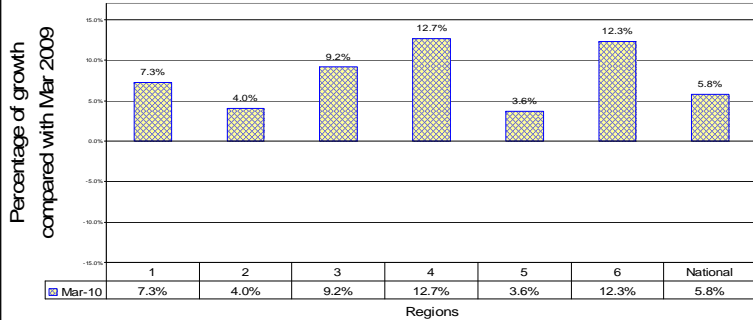
Regional Growth - Feb 2010  
Heavy Vehicles



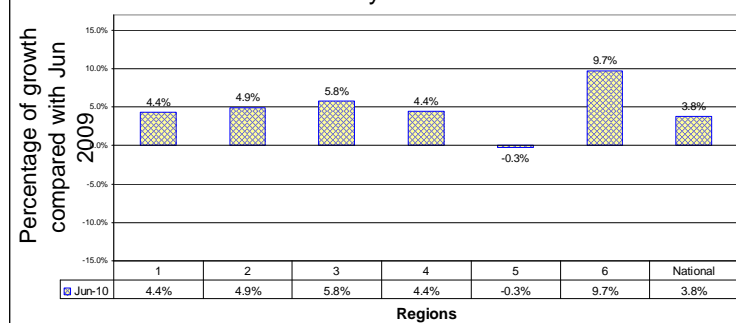
Regional Growth - May 2010  
Heavy Vehicles

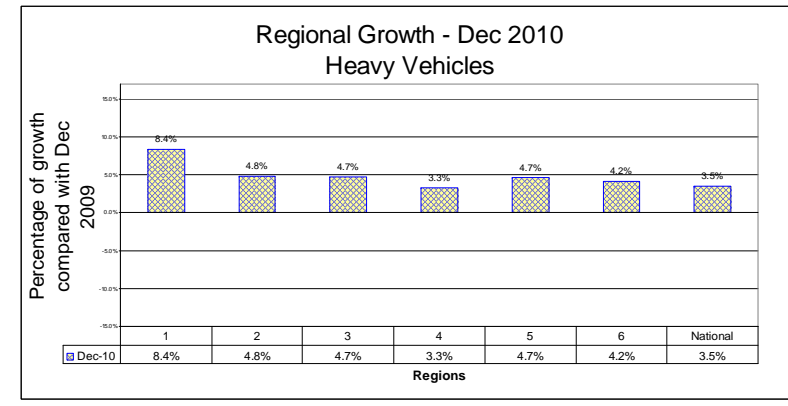
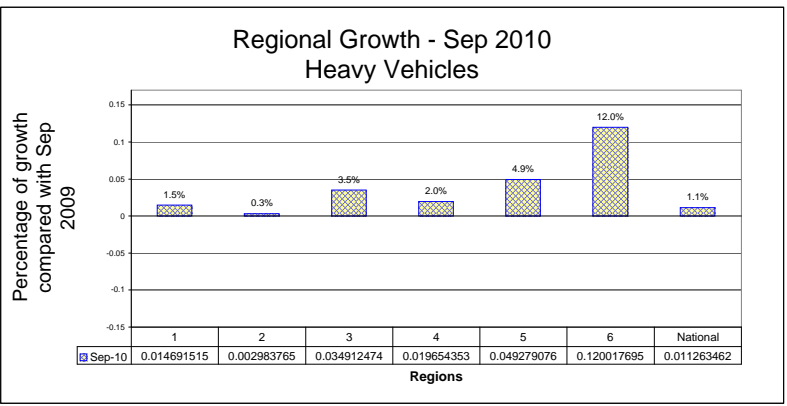
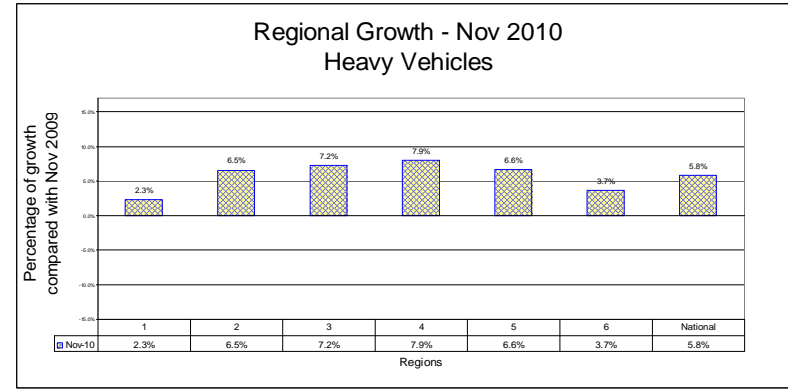
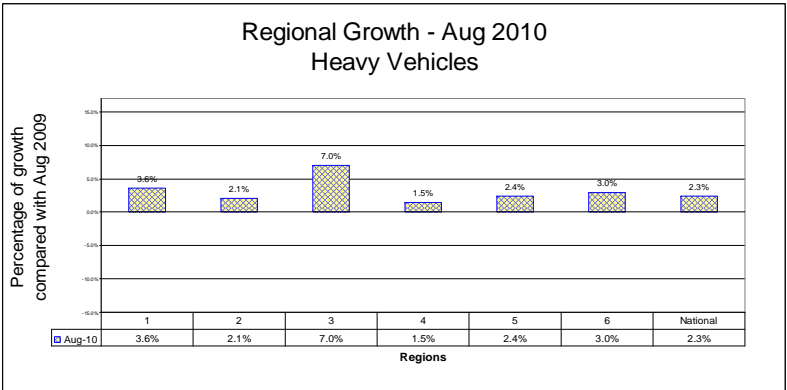
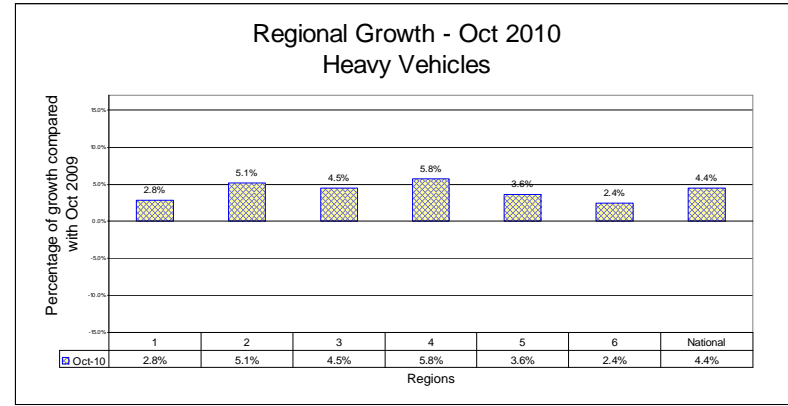
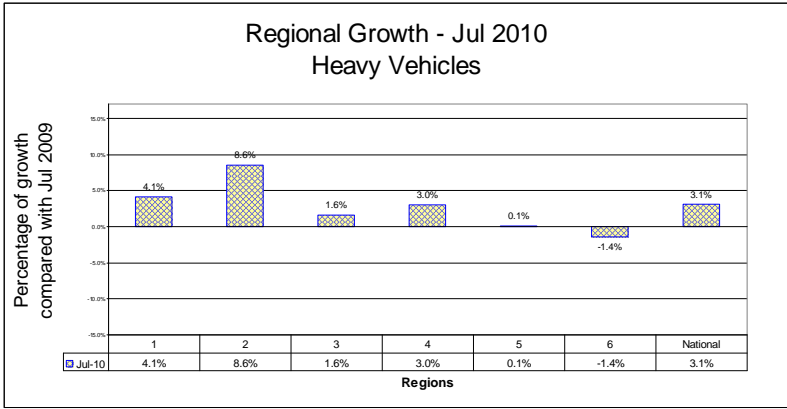


Regional Growth - Mar 2010  
Heavy Vehicles

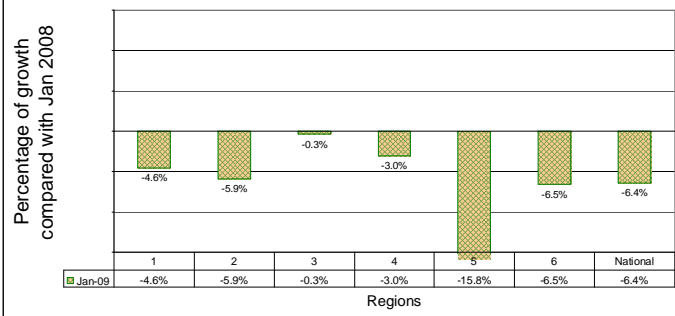


Regional Growth - Jun 2010  
Heavy Vehicles

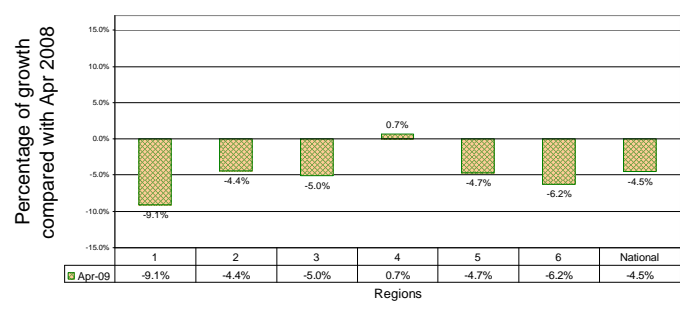




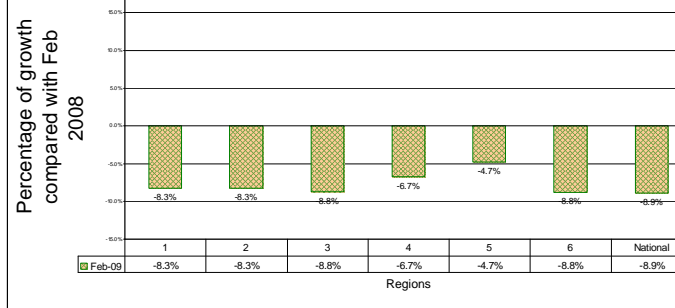
Regional Growth - Jan 2009  
Heavy Vehicles



Regional Growth - Apr 2009  
Heavy Vehicles



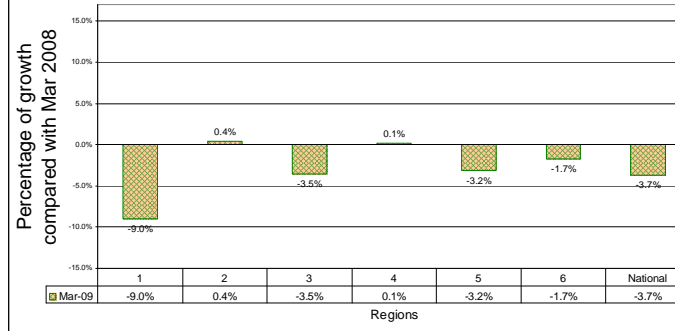
Regional Growth - Feb 2009  
Heavy Vehicles



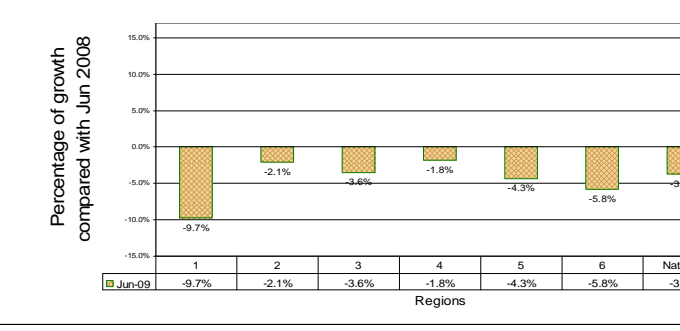
Regional Growth - May 2009  
Heavy Vehicles

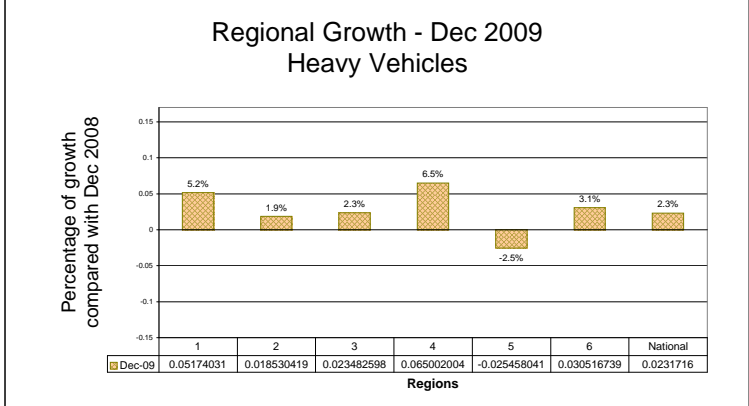
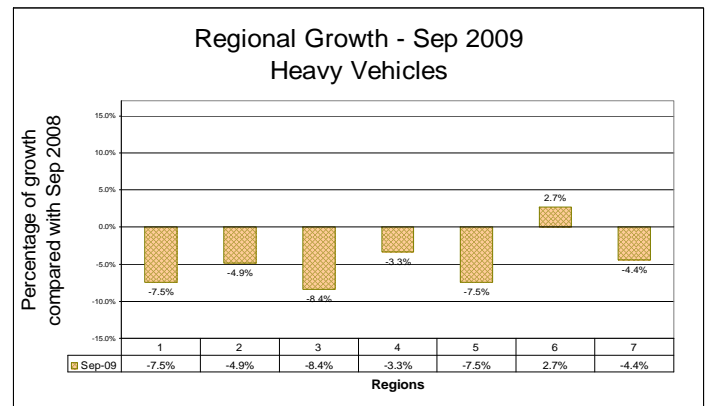
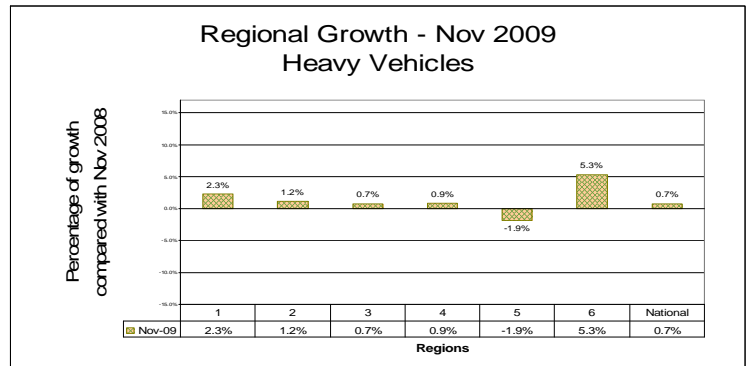
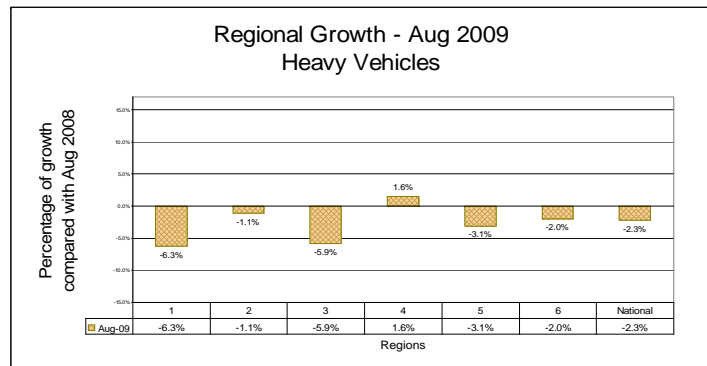
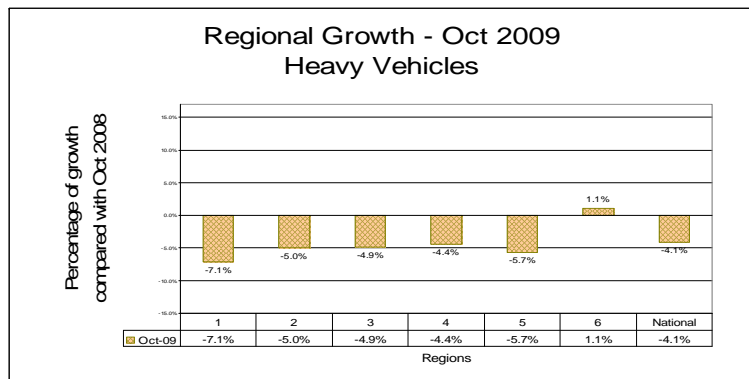
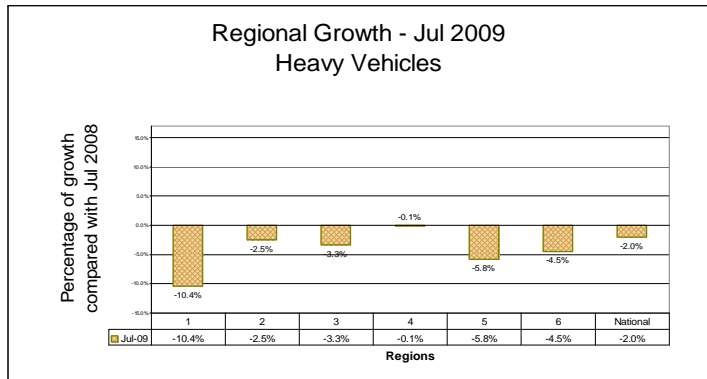


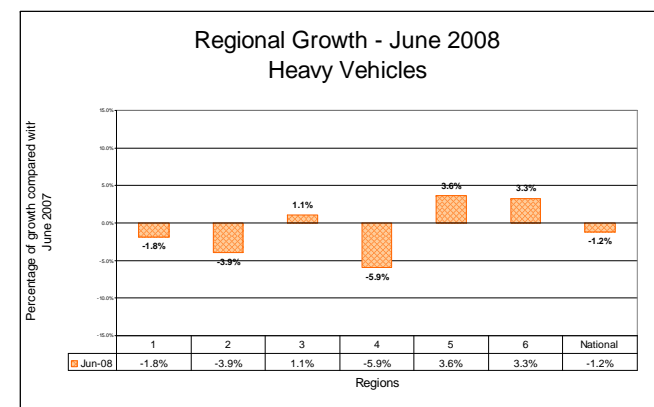
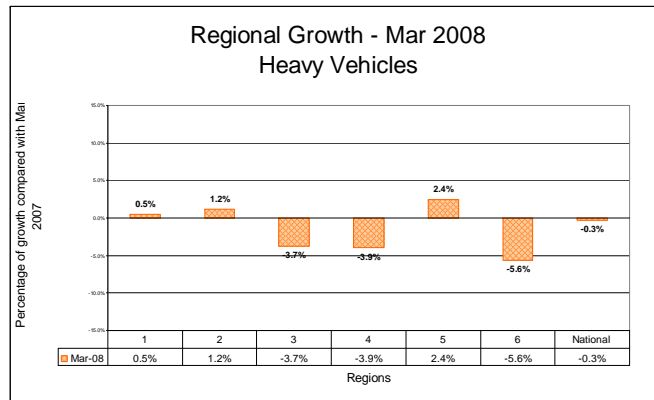
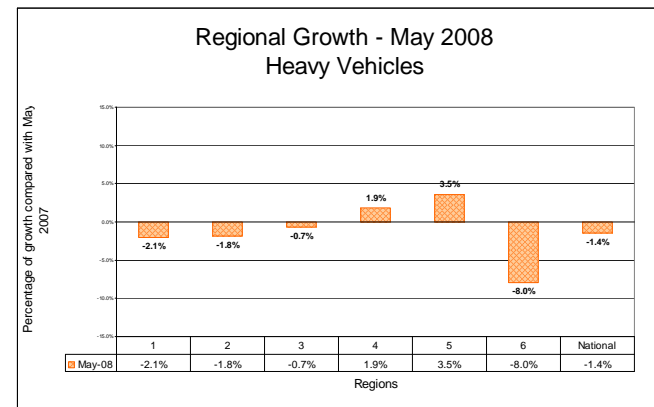
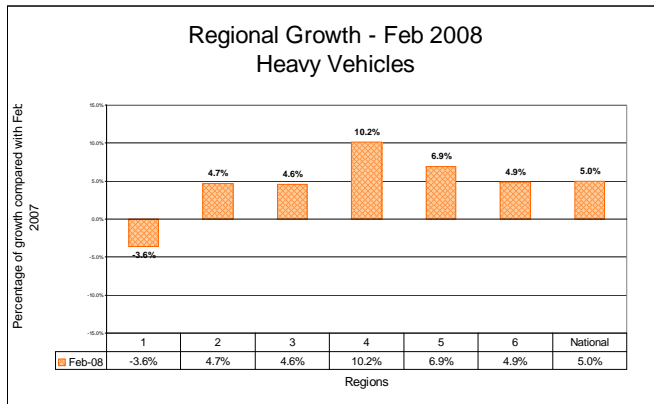
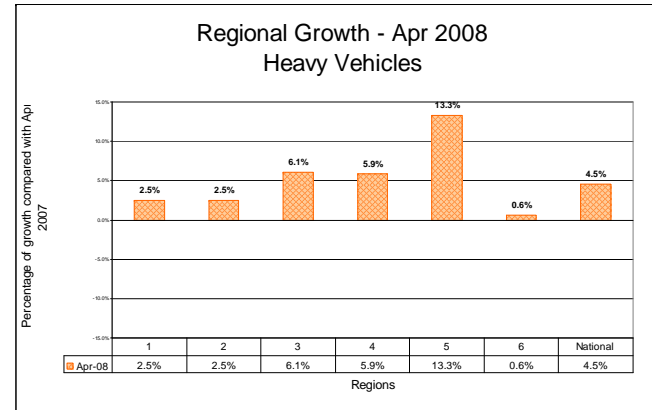
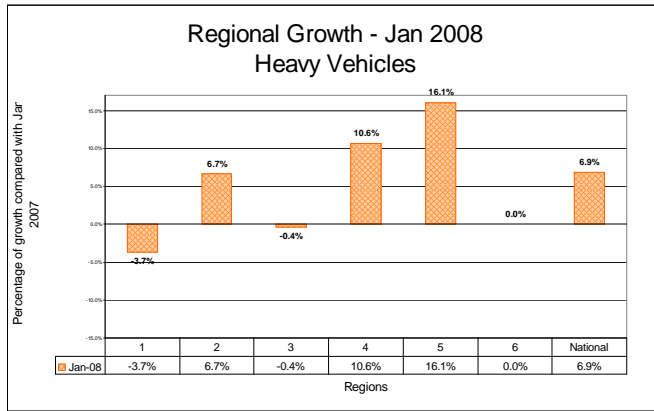
Regional Growth - Mar 2009  
Heavy Vehicles



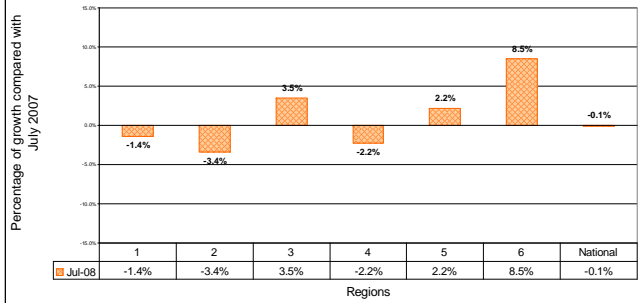
Regional Growth - Jun 2009  
Heavy Vehicles



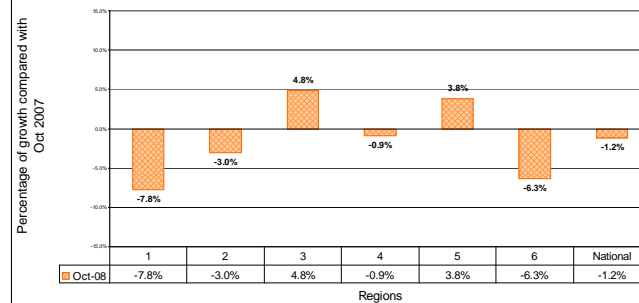




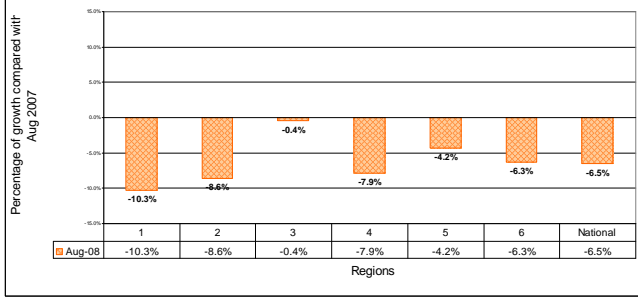
Regional Growth - July 2008  
Heavy Vehicles



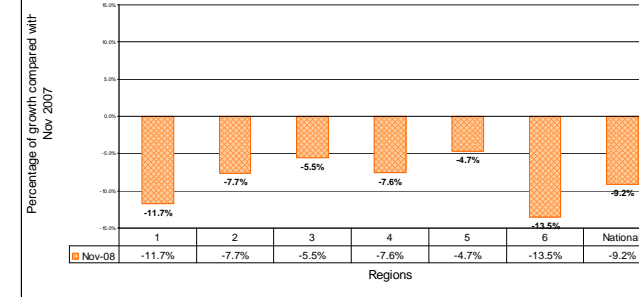
Regional Growth - Oct 2008  
Heavy Vehicles



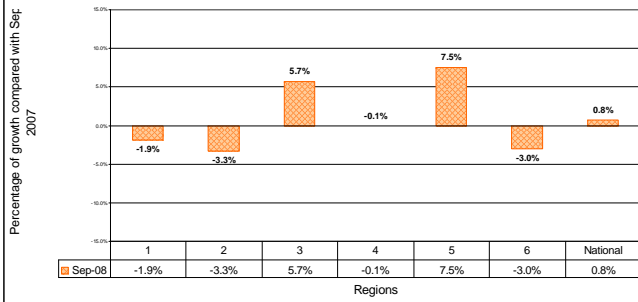
Regional Growth - Aug 2008  
Heavy Vehicles



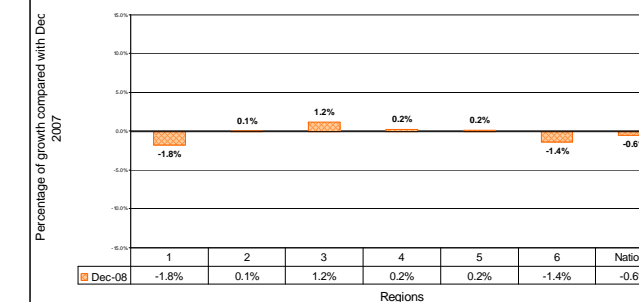
Regional Growth - Nov 2008  
Heavy Vehicles



Regional Growth - Sep 2008  
Heavy Vehicles



Regional Growth - Dec 2008  
Heavy Vehicles



Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Sep- 11	Oct- 11	Nov- 11	Dec- 11	Jan- 12	Feb- 12	Mar- 12	Apr- 12	May- 12	Jun- 12	Jul- 12	Aug- 12	Sep- 12
1	ID:01N00212	KAWAKAWA	5313	5812	6062	6750	7181	6520		6061	5305	5176	5129	5012	5030
1	ID:01200026	KAIKOHE	1194	1217	1386				1254	1228	1194	1142	1117	1104	1108
1	ID:01400016	MAUNGATAPERE	2363	2420	2607	2455	2272	2459	2692	2441	2524	2465	2366	2410	2390
1	ID:01700006	HATFIELDS BEACH	5051	5636	5850	6185	7076	6573	5836	6305	5234	5148	5069	5054	5117
1	ID:01N10459	DRURY - SB (Park Estate)	27967	29323	30050	31471	29342	30622	30171	30019	28630	28669	28191	28235	27449
1	ID:01N20459	DRURY - NB (Park Estate)	27912	29578	30081	30377	30561	30671	29847	30366	28248	28495	28161	27730	27100
1	ID:01N00336	WELLSFORD - Nth of Mangawhai Rd	7748	8810	8761	9568	11318	9634	8720	9556	7660	7839		7348	7501
1	ID:01N10440	PANAMA Rd - SB		57061	58392	48368	51106	56233	57947	58251	60187	57225	58316	60545	57282
1	ID:01N20440	PANAMA RD - NB		60686	62110	52369	54066	58745	59551	54491	55738	52837	54490	56354	54197
1	ID:01N10474	BOMBAY - SB	17241	18311	17877		20137	19137	18296	19895			16761	16156	16268
1	ID:01N20474	BOMBAY - NB	17035	18356	17733		20515	19023	18119	20374			16943	16035	16372
1	ID:01N00388	ALPURT	12364	14219	14291	15852	18046	15543	14094	15350	12942	13222	13061	12610	13242
1	ID:02000006	SH20 Puhinui Rd to Massey Rd	57429	56024	60618	57667	52124			56207	60211	58011	57206	59132	58565
1	ID:01N00424	Auckland Harbour Brg - Centre Span	71209	69542	71793	68516	66424	69257	68694	73628	74811	71091	70899	73647	73041
1	ID:01N10424	Auckland Harbour Brg - Left Clip-on	39618	39653	41249	38614	38317	42071	41977	40486	42596	41737	41407	42280	41998
1	ID:01N20424	Auckland Harbour Brg - Right Clip-on	43075	42758	44069	42733	38024	42456	43324	40193	43850	42532	42864	43039	42230
2	ID:00200002	MAUNGATAWHIRI - West of Grahams Brg	11711	13605	13227			13902	13012	13911	11416		11892	11218	11623
2	ID:25A00024	HUKUAE - Telemetry Site 76 - 1.3km after Kitahi Rd	2410	3046	2990	4085	5309	3745	3187	3599	2244	2531	2518	2209	2431
2	ID:02700011	KAIHERE	4011	4493	4348	4728	4587	4385	4254	4603	3847	3858	4033	3671	3826
2	ID:01N00526	TAUPIRI - Nth of Gordonton Rd	19802	21236	21067	21773	20748	21705	20816	21901	19979			19576	19169
2	ID:01N00620	LICHFIELD - Sth of Baldwin Rd	8557	9208	9130	9777	9437	9623	9360	9554	8553	8551	8663	8480	8428
2	ID:00300085	TE KUITI - Nth of 8 Mile Junction	4087	4253	3923	4304	4170	4141	4009	4303	3632	3918	4035	3864	3798
2	ID:03200074	West of Taupo	649	736	715	757	851	766	637	711	514	565	592	553	546
2	ID:01N00580	KARAPIRO	13167	14581	14657	15425	15324	15208	14857	15495	13582	14304	13724	13187	
2	ID:00200091	WAIHI - East of Samson Rd West	6615	7541	7445	8318	9474	7975	7487	8229	6783	7051	6529	6626	6670
2	ID:01N00729	HALLETT'S BAY	4843	5322	4989	5655	6727	5727	4982	5408	4162	4403	4985	4407	4550
2	ID:01N00628	TOKOROA - (WIM Site)	7996	8672	8539	9309	9100	9002			7896	7940	8074	7861	7876
2	ID:01N90552	GREENWOOD	21969	21678	23005	21894	20057	22369	23099	21856	23412		22145	22785	22284
2	ID:00200141	TE PUNA - West of Snodgrass	15485	15915	17166	17569	17039	16814	16426	16580	16095	15668	14827	15545	14940
2	ID:03010149	TE NGA - East End of Puarenga Brg (Inc)	16157	15990	17459	16979	16329	16972	17388	16421	16982	16612	16153	16650	16203
2	ID:03020149	East end of Puarenga Brg (Dec)	16162	16036	17523	16811	16636	17020	17357	16390	16945	16596	16127	16612	16119
2	ID:00200204	OHINEPANEA - West of Rogers Rd	4540	4705	4955	5203	5306	4993	4514	4860	4593	4553	4389	4373	4256
2	ID:03000188	LAKE ROTOMA	2613	2693	2798	3046	3367	2998	2777	2927	2622	2639	2623	2576	2515
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	3562	3767	3909	4157	4545	4119	3892	4130	3752	3665	3536	3483	3446
2	ID:00500034	TARUKENGA - 4.7km West of Dalbeth Rd	4758	5134	5121	5403	5878	5276	5152	5811	4558	4938	4933	4577	4637
2	ID:02900034	KAIMAI - 100m past Boulder Brg (Kaukumoutiti Stream)	8185	8744	8761	9311	9297	9087	8853	9423	8489	7879	8556	7871	8212
2	ID:00500057	WAIPIA - Sth of SH30					7759	7535	7611	6758	6635	6809	6593	6530	
2	ID:00200176	TE PUKE - (WIM Site)		17686	18859	18839	18273	18631	17951				16956	17460	16553
2	ID:00200242	AWAKERI	7342	7005	7700	7691	7332	7338	7687	8517	8733	8353	8658	8776	8102
2	ID:00210152	TAKITIMU DRIVE - Inc	14889			16817	14415	15382	15187	14563	15065	14713	14234	14779	14664
2	ID:00220152	TAKITIMU DRIVE - Dec	16079			18032	15593	16675	16486	15643	16302	15734	15204	15705	15614
3	ID:00200428	ORMOND	2165	2288	2457	2495	2646	2530	1827	2149	2185	2150	2015	2100	2087
3	ID:03500320	OKITU (New location from April 2012)	2939	3009	3391	3909	4158	3453	3096	4093	3998	3980	3540	3801	4081
3	ID:00200627	TANGOIO	1863	1977	2054	2144	2528	2201	2265	1972	1889	1891	1748	1719	1740
3	ID:00500230	TE POHUE - 1km Nth of Oakmere Station Gateway	2506	2720	2667	2897	3358	3196	3195	3046	2352	2459	2436	2253	2345
3	ID:00500259	ESKDALE - (WIM Site)	3322	3618	3614	3969	4359	3895	4046	3862	3198	3295	3246	3086	3228
3	ID:05000010	Nth of Tutaekuri River	21149	20548	22445			23151	22857	21085	22198	21360	20752	21291	20334
3	ID:00300171	TONGAPORUTU Brg	1933	2175	2026	2233	2517	2243	2135	2349	1767	1979	1852	1690	1777
3	ID:00300267	TARKI	8382	8456	9160	8868	8267	9096	9062	8923	9013	8507	8502	8319	8088
3	ID:00300370	WAITOTARA	3242	3416	3438	3646	3542	3569	3799	3839	3486	3220	3410	3325	3295
3	ID:04500101	OHAWA BEACH Rd		3936	4074	4017	3715	3880	3734	3616	3582	3344	3318	3509	3587
3	ID:01N00930	SANSON	11357	12117	12027	12817	12553	12662	12557	12661	11353	11257	11636	11117	
3	ID:01N00988	OHAU	13661	14557	14418	15674	15241	15317	14585	14857	13192	13252	13612	13090	13319
3	ID:00200755	NORSEWOOD	3510	3884	3735	4073	4417	4280	3894	3990	3300	3326	3343	3103	3295
3	ID:00300489	MANAWATU GORGE										3268			4176

Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Sep- 11	Oct- 11	Nov- 11	Dec- 11	Jan- 12	Feb- 12	Mar- 12	Apr- 12	May- 12	Jun- 12	Jul- 12	Aug- 12	Sep- 12
3	ID:00400133	HOROPITO	1999	1974	1575	1754	1931	1805	1649	1870	1362	1649	2142	2000	2008
3	ID:00400226	UPOKONGARO	1745	1798	1876	1974	2036	1987	1943	1899	1685	1706	1679	1641	1642
3	ID:01N00827	HIHITAH	4058	4671	4263	4727	5147	4861	4260	4862	3627	3843	4145	3793	3926
3	ID:05400049	FIELDING	5989	5921	6394	6125	5367	6280	6671	6136	6710	6604	6576	6525	6278
3	ID:05700014	SHANNON	6821	7055		7389	6710	7441	7408	7177	7050	6987	6929	6844	
4	ID:01N11068	NGAURANGA - SH1 Sth Bound Lanes		22368	23225	21754	20108	23040	22763	21464	22667	22123	21710	21589	20924
4	ID:00200895	CLAREVILLE - Nth of Whites Line	10526	10887	11282	11429	10713	11414	11092	10594	10658	10279	9971	10320	9951
4	ID:00200937	RIMUTAKA - Pukuratahi River Brg		5927	5832	6026	6377	6653	5801		5324	5068	5178	4950	4940
4	ID:01N01036	PUKERUA BAY - (Piezo Axle Classification)	22053	22922	23390	24480	23301	24341	23344	22915	22155	21780	22204	21711	
4	ID:01N21068	NGAURANGA - SH1 Nth Bound Lanes	22403	22251	23278	19050	19669	22947	22866	21339	22816	21897	21875	22495	21429
4	ID:05800009	Pauatohanui East	13305	13481	14341	13952	12721	14256	14062	13509	13772	13261	13197	13485	12978
4	ID:00210979	NGAURANGA - SH2 Sth Bound Lanes		21488	22623	20847	18873	22262	22227	20630	22048	21223	20709	21425	20063
4	ID:00220979	NGAURANGA - SH2 Nth Bound Lanes	21476	21254	22625	17798	18567	22049	22002	20425	21895	20754	20769	21293	20194
4	ID:00210965	KELSON - SB	17015	16902	17961	17080	15908	17926	17682	16994	17771	16852	16855	17082	16896
4	ID:00220965	KELSON - NB	16332	16141	17200	16551	14888	17087	17073	16396	17240	16397	16252	16687	16384
4	ID:00600122	STOKE - Whakatu Drive at Songer St	20484	20373	22179	21073	21532	22276	21314	19919	20729	19992	19881	20359	19474
4	ID:00600232	MURCHISON	1429	1805	1803	2121		2231	1940	2095	1385	1219	1336	1279	
4	ID:00600100	HIRA		3094	3296	3445	3802	3696	3432	3243	2861	2868		2622	2741
4	ID:06000040	SH60 Riwaka	2656	3122	3638	4441	5685	4819	3939	3659	2790	2493	2370	2386	2481
4	ID:01S00037	Blenheim	3213	3358	3673	4294	4225	3955		3957	3210	3188	3128	3006	3101
4	ID:06300096	ST ARNAUD	247	324	329	388	442	418	385	359	239		243	203	
5	ID:01S00389	DUNSANDEL	9555	10206	10636	11121	10649	10816	10447	10796	9551	9152	9707	9277	9551
5	ID:01S00505	EVANS St Timaru	19077	20313	21488	21390	19845	20461	20255	20008	20133	20602	19897	19471	19095
5	ID:07300064	Springfield - West of Township	1433	1536	1557	1598	1847	1646	1519	1703	1198	1292	1491	1527	1433
5	ID:01S00144	KAIKOURA - Nth of Hapuku River	1968	2383	2555	2750	3362	2903	2478	2589	1905	1995	1939	1723	1924
5	ID:01S00522	ST ANDREWS	5355	5658	5896	6148	5865	5947	5765	5991	5480	5241	5302	5008	5298
5	ID:00700108	LEWIS PASS	874	1173	1108	1285	1560	1337	1164	1293	859		897	818	
5	ID:07409005	QE II Drive East Of Main Nth Rd	20889	20052	21123	20375	17932		19148	16605				18733	
5	ID:01S00285	WAI PARA - (WIM Site)	6636	7592	7598	8505	8924	8170	6999		6443	6332	6503	6125	6535
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB	20064	20435	21801	21029	20103	21715	21823	20591	21265	19692	20354	20822	21057
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB	19389	19547	21044	20612	18786	20647	20975	19787	20410	18906	19395	19993	20122
5	ID:00800059	FAIRLIE	1737	1898	2089	2442	2707	2536	2352	2603	1633	1638	1868	1873	1920
5	ID:00600454	CHESTERFIELD	2582	2767	3004	3144	3268	3275	3024	2876	2614	2296	2489	2489	2461
5	ID:00700239	AHAURA		1242	1309			1390	1354	1307	1137	1084	1118	1147	
5	ID:00600398	PUNAKAIKI - Just Nth of Canoe Creek				1116	1299	1287	1083	1004	738	640	694	716	744
6	ID:00800336	ALEXANDRA - Sth Near Butchers Dam	1946	2113	2082	2324	2560	2402	2231	2338	1845	1768	1822	1937	1982
6	ID:01S10713	BURNSIDE - Sth Bound	15267	15207	16201	15593	13736	16031	15763	14996	15824	15089	15003	15293	14866
6	ID:01S20713	BURNSIDE - Nth Bound	10474	10391	11063	10595	9560	11014	10969	10361	10883	10410	10431	10536	10258
6	ID:01S50713	BURNSIDE - On Ramp - Nth Bound	2470	2436	2577	2525	2241	1502	2527	2391	2556	2432	2429	2442	2366
6	ID:01S60713	BURNSIDE - Off Ramp - Sth Bound	3247	3179	3511	3221	2909	1986	3425	3094	3304	3144	3086	3178	3015
6	ID:01S40713	BURNSIDE - Off Ramp - Nth Bound	3301	3323	3623	3324	2935	3455	3442	3204	3403	3281	3187	3273	3177
6	ID:01S40714	Burnside - Nth Bound Off Ramp	2243	2197	2392	2230	2026	2306	2285	2120	2251	2099	2090	2158	2090
6	ID:01S00765	MILTON	5783	6210	6549	6662	6464	6830	6515	6520	6005	5478	5568	5590	5633
6	ID:06A00001	FRANKTON	16466	16037	17256	18230	18799	18404	18036	17754	15940	16281	18324	18910	16619
6	ID:08500161	GALLOWAY	1838	1807	1946	2175	2339	2174	1969	2022	1841	1671	1702	1808	1765
6	ID:08800004	RAVENSBOURNE	8409	8313	8958	8548	7689	8839	8815	8033	8574	8174	8074	8339	8190
6	ID:01S00921	INVERCARGILL	11219	10862	11828	11030	9339	11404	11853	10496	11577	11032	10914	11543	10695
6	ID:00601147	WINTON	4444	4360	4577	4825	4322	4757	4757	4488	4548	4307	4290	4539	4195
6	ID:00601082	FIVE RIVERS	1389	1661	1842	2180	2350	2370	2084	2022	1402	1273	1318	1323	1382
6	ID:01S00854	GORE	3684	3973	4265	4323	4101	4607	4267	4105	3990	3670	3635	3706	3555
6	ID:09400141	TE ANAU	753	927	1356	1436	1685	1599	1398	1358	760	625	739	746	709



### Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Sep- 11	Oct- 11	Nov- 11	Dec- 11	Jan- 12	Feb- 12	Mar- 12	Apr- 12	May- 12	Jun- 12	Jul- 12	Aug- 12	Sep- 12
1	ID:01N00212	KAWAKAWA	655	667	748	687	730	756		677	682	585	573	616	615
1	ID:01200026	KAIKOHE	61	60	95				65	53	51	61	47	45	52
1	ID:01400016	MAUNGATAPERE	289	285	309	237	231	284	270	263	252	232	241	269	270
1	ID:01700006	HATFIELDS BEACH	199	211	233	223	245	257	234	188	166	152	148	153	156
1	ID:01N10459	DRURY - SB (Park Estate)	2323	2307	2627	2489	2308	2600	2700	2511	2599	2388	2300	2414	2241
1	ID:01N20459	DRURY - NB (Park Estate)	2205	2210	2502	2320	2246	2486	2581	2421	2478	2279	2186	2290	2090
1	ID:01N00336	WELLSFORD - Nth of Mangawhai Rd	880	919	1006	935	1056	1060	1001	948	936	839		822	811
1	ID:01N10474	BOMBAY- SB	2000	2136	2370		2296	2316	2327	2198			1899	1949	1901
1	ID:01N20474	BOMBAY - NB	2043	2219	2425		2418	2395	2398	2312			1902	1939	1906
1	ID:01N00388	ALPURT	1139	1206	1344	1290	1435	1384	1285	1278	1227	1149	1096	1019	1064
1	ID:02000006	SH20 Puhinui Rd to Massey Rd	3084	2947	3525	3251	2891			3145	3584	3268	3149	3373	3269
2	ID:00200002	MAUNGATAWHIRI - West of Grahams Brg	1676	1718	1832			1668	1782	1770	1692		1498	1559	1526
2	ID:25A00024	HIKUAE - Telemetry Site 76 - 1.3km after Kitahi Rd	217	250	284	315	369	287	261	277	209	215	240	236	266
2	ID:02700011	KAIHERE	866	871	957	863	822	935	967	870	900	789	805	810	809
2	ID:01N00526	TAUPIRI - Nth of Gordonton Rd	2157	2145	2397	2169	2016	2260	2251	2107	1994			2003	2060
2	ID:01N00620	LICHFIELD - Sth of Baldwin Rd	1437	1466	1564	1437	1334	1545	1652	1495	1508	1310	1291	1404	1395
2	ID:00300085	TE KUITI - Nth of 8 Mile Junction	665	675	760	671	655	737	735	713	732	627	592	605	613
2	ID:03200074	West of Taupo	122	126	145	103	102	121	104	89	84	75	71	70	67
2	ID:01N00580	KARAPIRO	1472	1512	1667	1626	1585	1755	1727	1649	1515	1314	1267	1482	
2	ID:00200091	WAIHI - East of Samson Rd West	746	767	854	791	808	854	861	826	797	752	665	751	744
2	ID:01N00729	HALLETTS BAY	759	750	826	744	822	888	843	756	786	712	668	678	686
2	ID:01N00628	TOKOROA - (WIM Site)	1504	1504	1606	1473	1416	1595			1525	1318	1319	1457	1483
2	ID:01N90552	GREENWOOD	1665	1637	1830	1686	1552	1814	1765	1578	1768		1564	1687	1649
2	ID:00200141	TE PUNA - West of Snodgrass	1126	1099	1260	1121	1087	1212	1236	1244	1325	1149	1014	1146	1123
2	ID:03010149	TE NGA - East End of Puarenga Brg (Inc)	962	927	1068	946	927	1022	1068	957	1029	952	909	965	968
2	ID:03020149	East end of Puarenga Brg (Dec)	944	900	1081	925	951	1039	1128	1028	1108	1027	980	1036	1025
2	ID:00200204	OHINEPANEA - West of Rogers Rd	824	770	861	758	719	811	723	783	805	697	658	731	713
2	ID:03000188	LAKE ROTOMA	310	309	351	301	346	372	340	349	348	310	320	336	324
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	547	553	618	559	571	613	610	599	629	563	504	530	510
2	ID:00500034	TARUKENGA - 4.7km West of Dalbeth Rd	576	609	682	626	651	682	634	628	569	512	495	545	529
2	ID:02900034	KAIMAI - 100m past Boulder Brg (Kaukomoutiti Stream)	1258	1270	1408	1344	1243	1424	1395	1365	1305	1152	1157	1207	1181
2	ID:00500057	WAIPA - Sth of SH30						972	956	905	919	829	785	816	825
2	ID:00200176	TE PUKE - (WIM Site)		1802	2022	1699	1652	1975	1885				1643	1805	1689
2	ID:00200242	AWAKERI	648	566	709	608	619	745	706	797	797	660	690	714	647
2	ID:00210152	TAKITIMU DRIVE - Inc	1141			1334	978	1153	1171	1156	1220	1073	991	1066	1062
2	ID:00220152	TAKITIMU DRIVE - Dec	1237			1415	982	1159	1164	1153	1220	1081	990	1075	1072
3	ID:00200428	ORMOND	229	227	258	222	257	379	244	205	237	224	202	215	229
3	ID:03500320	OKITU (New location from April 2012)	285	293	359	292	322	425	367	384	483	443	379	412	505
3	ID:00200627	TANGOIO	358	348	411	351	419	440	491	350	401	375	335	377	326
3	ID:00500230	TE POHUE - 1km Nth of Oakmere Station Gateway	525	483	573	460	458	583	694	564	607	525	505	508	492
3	ID:00500259	ESKDALE - (WIM Site)	644	579	679	540	577	608	789	628	698	616	613	612	596
3	ID:05000010	Nth of Tutaeakuri River	1341	1242	1418			1547	1588	1432	1518	1381	1241	1266	1252
3	ID:00300171	TONGAPORUTU Brg	410	433	488	402	464	457	440	428	424	384	353	357	381
3	ID:00300267	TARIKI	1008	1034	1134	1008	987	1063	1097	1048	1070	884	848	931	975
3	ID:00300370	WAITOTARA	561	598	671	614	565	599	642	672	623	480	480	599	572
3	ID:04500101	OHAWA BEACH Rd		605	584	530	501	497	463	434	342	237	243	406	563
3	ID:01N00930	SANSON	1470	1501	1638	1557	1477	1636	1646	1552	1536	1355	1334	1419	
3	ID:01N00988	OHAU	1411	1401	1496	1444	1376	1559	1494	1388	1423	1305	1305	1309	1301
3	ID:00200755	NORSEWOOD	603	580	618	566	621	698	704	653	652	513	499	515	527
3	ID:00300489	MANAWATU GORGE										426			487
3	ID:00400133	HOROPITO	294	270	288	259	285	325	317	296	291	277	270	266	260
3	ID:00400226	UPOKONGARO	139	133	195	155	184	175	181	163	151	143	128	125	127

Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Sep- 11	Oct- 11	Nov- 11	Dec- 11	Jan- 12	Feb- 12	Mar- 12	Apr- 12	May- 12	Jun- 12	Jul- 12	Aug- 12	Sep- 12
3	ID:01N00827	HIHITAH	830	883	967	839	829	993	1004	914	938	822	825	831	815
3	ID:05400049	FIELDING	244	251	276	274	234	274	289	247	259	239	252	243	236
3	ID:05700014	SHANNON	655	624		654	606	714	695	625	644	623	588	594	
4	ID:01N11068	NGAURANGA - SH1 Sth Bound Lanes		744	818	735	709	813	765	710	778	751	705	623	620
4	ID:00200895	CLAREVILLE - Nth of Whites Line	600	606	660	588	569	686	670	600	576	476	487	537	557
4	ID:00200937	RIMUTAKA - Pukuratahi River Brg		335	391	342	359	401	380		328	266	283	286	280
4	ID:01N01036	PUKERUA BAY - (Piezo Axle Classification)	1794	1732	1874	1769	1619	1896	1871	1738	1863	1675	1702	1746	
4	ID:01N21068	NGAURANGA - SH1 Nth Bound Lanes	703	697	766	586	668	769	740	671	733	682	689	617	559
4	ID:05800009	Pauatahanui East	659	630	707	666	619	738	668	551	560	507	490	509	508
4	ID:00210979	NGAURANGA - SH2 Sth Bound Lanes		870	963	824	800	891	883	810	872	876	794	669	641
4	ID:00220979	NGAURANGA - SH2 Nth Bound Lanes	780	756	865	567	694	778	762	692	757	738	723	739	699
4	ID:00210965	KELSON - SB	672	646	754	672	643	777	760	699	723	619	631	653	650
4	ID:00220965	KELSON - NB	587	562	646	600	546	663	699	669	679	583	580	613	608
4	ID:00600122	STOKE - Whakatu Drive at Songer St	1252	1167	1349	1168	1291	1355	1415	1273	1347	1181	1183	1185	1130
4	ID:00600232	MURCHISON	258	293	320	314		349	328	310	260	189	211	231	
4	ID:00600100	HIRA		430	501	453	495	533	522	479	478	428		415	445
4	ID:06000040	SH60 Riwaka	176	193	254	253	312	308	291	261	219	152	145	154	170
4	ID:01S00037	Blenheim	577	589	649	580	637	669		714	616	489	454	500	491
4	ID:06300096	ST ARNAUD	32	39	41	38	41	46	43	39	33		20	20	
5	ID:01S00389	DUNSANDEL	1434	1496	1627	1562	1554	1632	1554	1484	1453	1202	1196	1292	1357
5	ID:01S00505	EVANS St Timaru	1356	1561	1706	1485	1494	1638	1619	1539	1537	1240	1211	1205	1363
5	ID:07300064	Springfield - West of Township	180	192	215	202	241	216	196	191	184	140	155	170	167
5	ID:01S00144	KAIKOURA - Nth of Hapuku River	473	480	534	478	538	559	532	486	486	439	411	403	435
5	ID:01S00522	ST ANDREWS	884	926	975	912	963	1006	985	952	930	716	684	732	870
5	ID:00700108	LEWIS PASS	166	191	193	192	237	215	201	193	175		140	140	
5	ID:07409005	QE II Drive East Of Main Nth Rd	629	592	707	611	557		592	500				585	
5	ID:01S00285	WAIPARA - (WIM Site)	1191	1219	1344	1271	1377	1413	1273		1134	933	919	936	1035
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB	1256	1274	1406	1238	1271	1419	1386	1316	1384	1188	1226	1355	1440
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB	1150	1156	1289	1203	1135	1287	1264	1208	1241	1061	1082	1154	1229
5	ID:00800059	FAIRLIE	199	224	276	303	336	318	302	318	202	162	161	172	205
5	ID:00600454	CHESTERFIELD	324	373	397	377	378	380	342	325	284	188	207	244	309
5	ID:00700239	AHAURA		205	235			195	195	178	148	135	143	159	
5	ID:00600398	PUNAKAIKI - Just Nth of Canoe Creek	90	101	113	105	110	118	109	103	72	57	57	80	101
6	ID:00800336	ALEXANDRA - Sth Near Butchers Dam	186	195	209	236	273	257	239	224	202	159	164	204	182
6	ID:01S10713	BURNSIDE - Sth Bound	837	840	900	834	831	952	923	837	850	717	710	737	753
6	ID:01S20713	BURNSIDE - Nth Bound	659	670	710	643	664	742	729	641	658	545	536	565	580
6	ID:01S50713	BURNSIDE - On Ramp - Nth Bound	113	111	123	111	106	68	131	128	130	111	109	111	112
6	ID:01S60713	BURNSIDE - Off Ramp - Sth Bound	191	192	206	187	174	122	216	195	197	183	187	190	180
6	ID:01S40713	BURNSIDE - Off Ramp - Nth Bound	124	129	146	140	129	155	158	148	140	121	118	118	120
6	ID:01S40714	Burnside - Nth Bound Off Ramp	71	70	71	64	64	79	75	70	74	67	69	73	73
6	ID:01S00765	MILTON	786	868	928	890	915	953	921	836	807	614	610	662	730
6	ID:06A00001	FRANKTON	813	817	939	957	1127	1386	987	892	746	663	797	844	765
6	ID:08500161	GALLOWAY	114	111	126	127	148	152	144	135	128	99	96	121	104
6	ID:08800004	RAVENSBOURNE	454	465	555	487	491	549	513	490	500	406	388	409	407
6	ID:01S00921	INVERCARGILL	375	366	395	343	304	376	383	336	374	365	380	421	386
6	ID:00601147	WINTON	454	442	434	476	453	518	515	471	428	347	336	411	390
6	ID:00601082	FIVE RIVERS	143	170	227	238	249	246	227	207	161	127	132	147	137
6	ID:01S00854	GORE	478	533	573	560	554	628	596	540	507	372	337	426	438
6	ID:09400141	TE ANAU	81	104	160	156	175	172	161	156	79	61	77	78	72