



Traffic Volumes Monthly Report April 2009

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Quality Assurance Statement

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Approved for issue by: Chris Parkman

Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	8/5/2009	First draft	Gerald Wen	Neil Beckett	Chris Parkman

Overview

Summary

The purpose of this document is to report on the monthly traffic volume changes. This report also covers annual traffic trends for the period of 1989 to 2008.

The overall annual trend in traffic growth, up to 2007, has continued to increase.

In April 2009, compared with April 2008, the monthly average daily traffic (MADT) for all vehicles had increased by 2.4 percent; however the MADT for heavy vehicles had reduced by 4.5 percent.

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Technical Notes

What is MADT and AADT

Monthly Average Daily Traffic (MADT) is the average of daily traffic volume measured in a given month.

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

Purpose

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

Sample coverage

There are 87 telemetry¹ sites in use on the state highway network to provide this traffic data.

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

NZ Transport Agency Region	Number of Telemetry Sites
Northland and Auckland	18
Waikato and Bay of Plenty	19
Taranaki, Manawatu-Wanganui, Hawkes Bay and Gisborne	15
Wellington, Nelson, Marlborough and Tasman	13
Canterbury and West Coast	11
Otago and Southland	11

Sources of variation in MADT

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

¹ Telemetry sites are continuously monitored 24/7.

Key Results

The annual national State Highway Traffic Index ¹ measures the rate of traffic growth since 1989.

Overall

Since 1989, traffic has generally grown across the network. From 1999, the index for heavy vehicles starts to increase at a higher rate than the index for all vehicles. In 2006 there was a minor reduction in cars and light vehicles whilst the number of heavy vehicles showed negligible growth followed by both indexes reaching a peak in 2007.

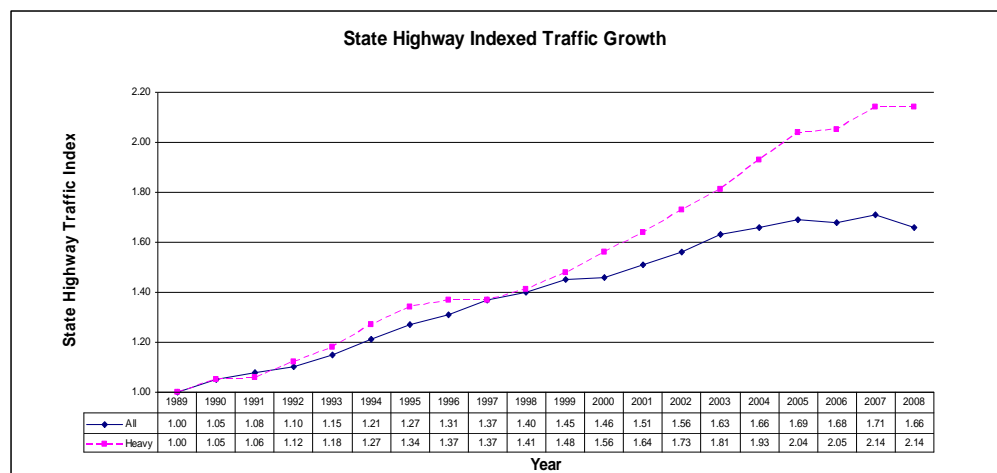
2008 All Vehicles

In 2008, the all vehicle index returned to similar levels to those observed in 2005 and 2006.

2008 Heavy Vehicles

In 2008, the heavy vehicle index remained at the same level as observed in the previous year.

National growth (annual)



¹ Weighted average traffic across the 86 telemetry sites

**Results:
Monthly
traffic at key
sites**

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

The MADT values for April 2009, April 2008 and percentage of difference compared are reported in the table below.

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) April-08	MADT (All Vehicles) April-09	% Change
Auckland harbour bridge (SH1)	Auckland	159011	158971	0%
Karapiro (SH1)	Hamilton	15045	15465	3%
Ngauranga Interchange (SH 1 and SH 2combined)	Wellington	88203	85956	-3%
DUNSANDEL (Best Alternative)	Christchurch	10184	10488	3%
Burnside (SH1 NB only)	Dunedin	10331	10308	0%

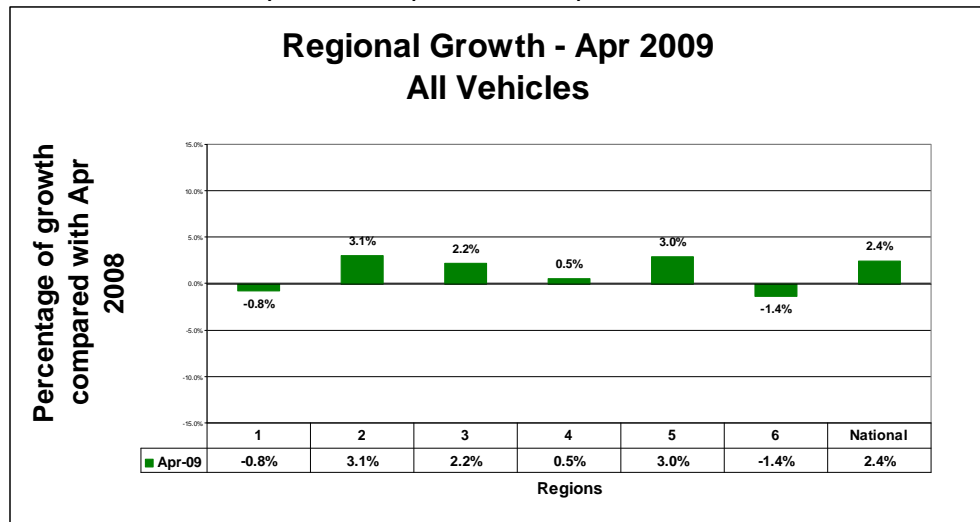
In April, the MADT values at Hamilton and Christchurch increased 3%, while Auckland and Dunedin had remained the same levels when compared to the same period in the previous year with only Wellington showing a drop of 3 percent.

Results: All Vehicles

Regions

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

The diagram below shows the percentage of difference compared with the same period in 2008. The MADT values here represent all vehicle types. It can be observed that region 1 and 6 had a small decrease, while all other regions had an increase in MADT. Nationally, the MADT in April 2009 for all vehicles increased by 2.4% compared with April 2008.



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

More graphs

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

All sites

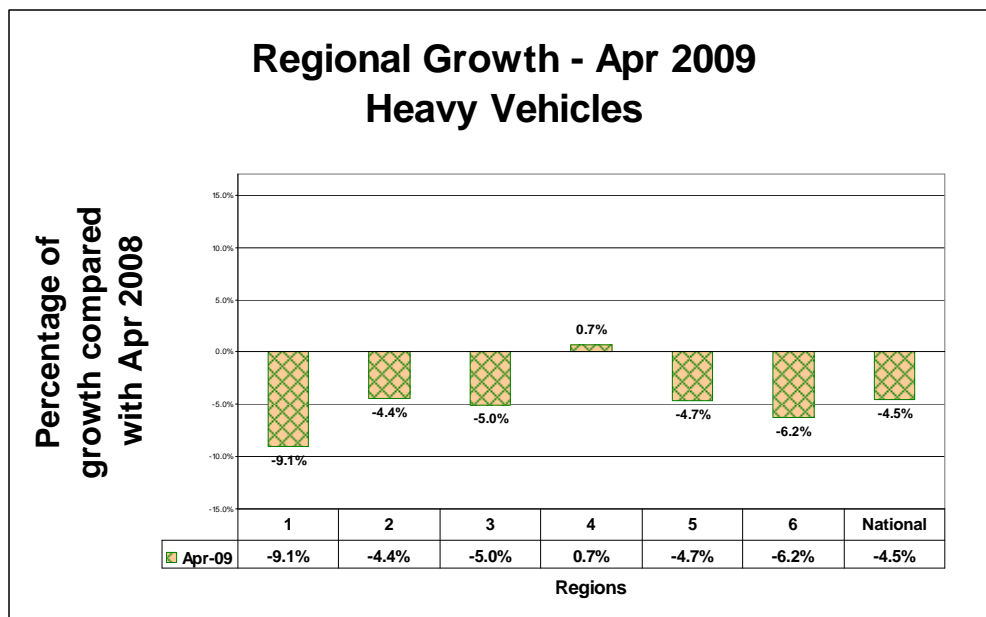
A table of MADT (all vehicles) values for all national telemetry sites is attached to this report.

Results: Heavy Vehicles

Regions

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

The diagram below shows the percentage of difference compared with the same period in 2008. The MADT values here represent heavy vehicles only. It can be observed that only region 4 had a very minor increase, while all other regions showed a decrease, with region 1 having the largest decrease of 9.1%. Nationally, the MADT in April 2009 for heavy vehicles dropped 4.5% compared with April 2008.



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

More graphs

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

All sites

A table of MADT (heavy vehicles) values for all national telemetry sites for 2009 is attached to this report.

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

Appendices

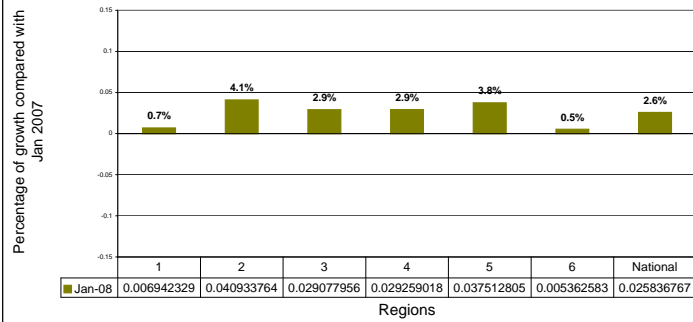
Current and Previous Years Growth Graphs

- All Vehicles
- Heavy Vehicles

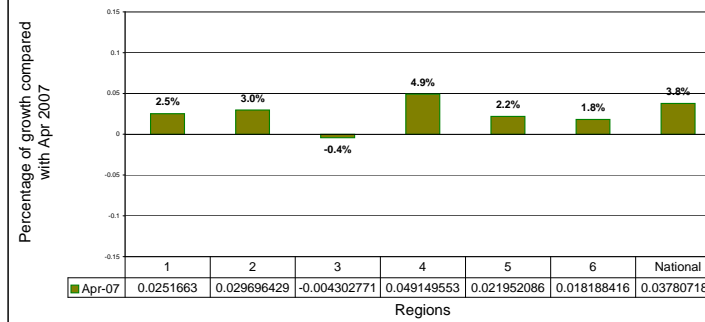
Telemetry Site MADT's for 2009

- All Vehicles
- Heavy Vehicles

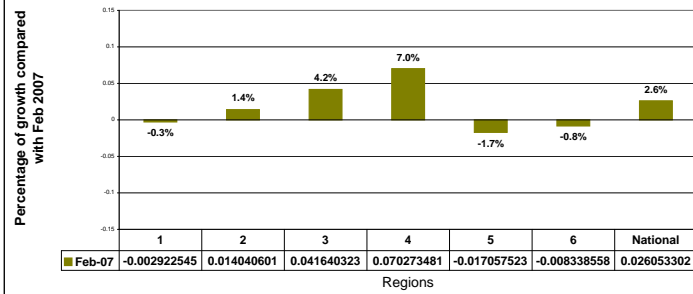
Regional Growth - Jan 2007 All Vehicles



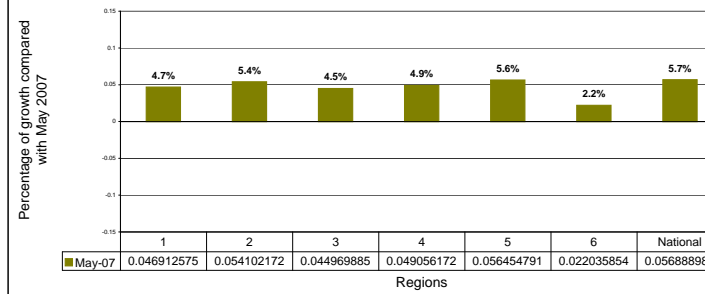
Regional Growth - Apr 2007 All Vehicles



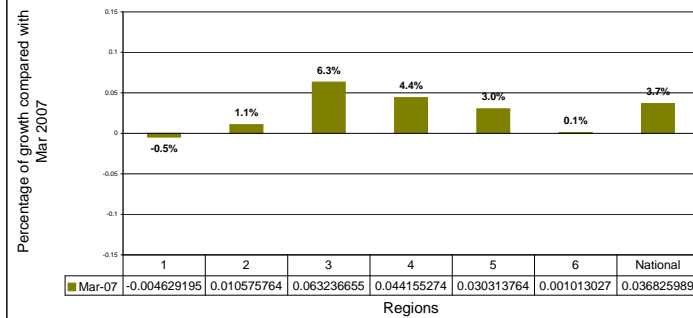
Regional Growth - Feb 2007 All Vehicles



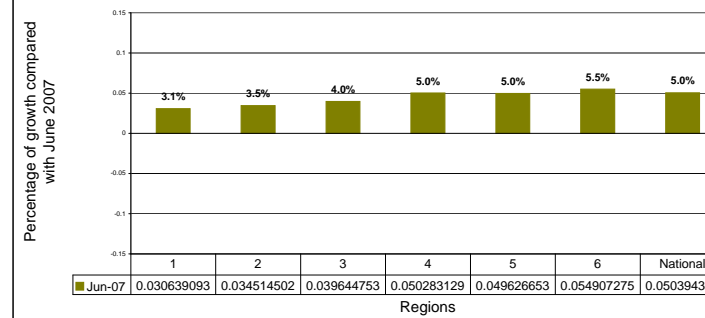
Regional Growth - May 2007 All Vehicles



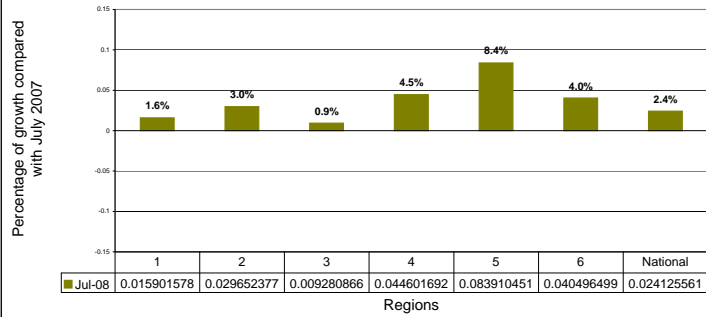
Regional Growth - Mar 2007 All Vehicles



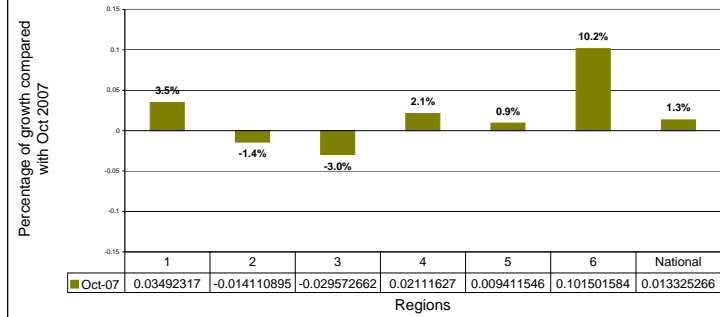
Regional Growth - June 2007 All Vehicles



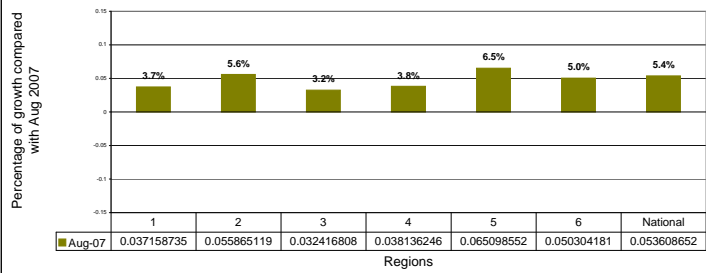
Regional Growth - July 2007 All Vehicles



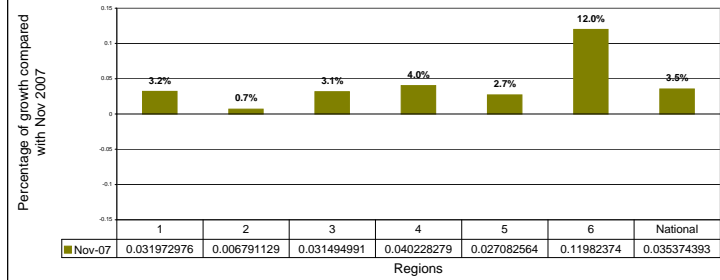
Regional Growth - Oct 2007 All Vehicles



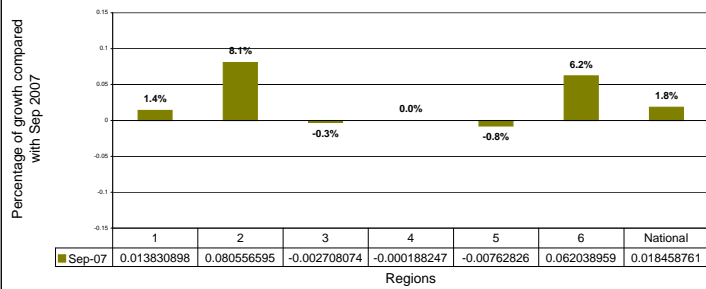
Regional Growth - Aug 2007 All Vehicles



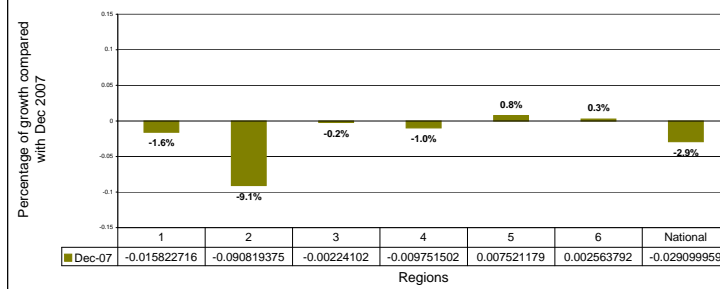
Regional Growth - Nov 2007 All Vehicles



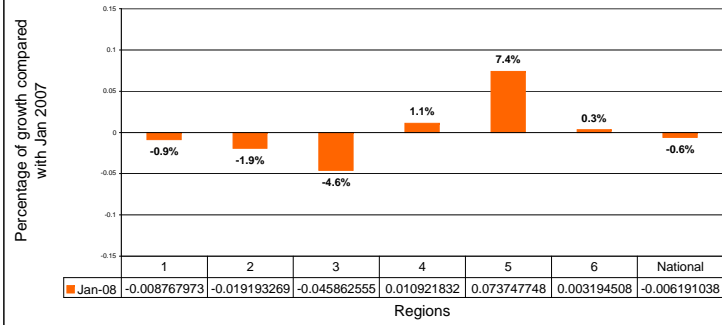
Regional Growth - Sep 2007 All Vehicles



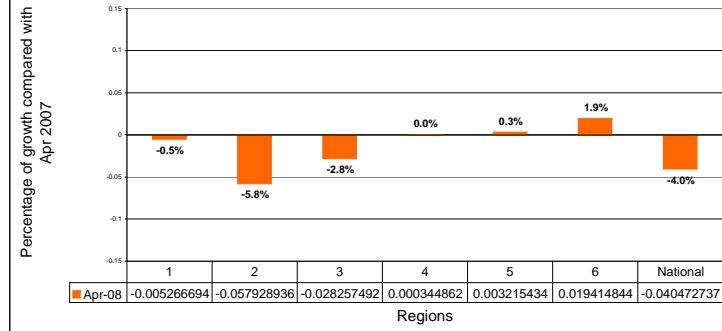
Regional Growth - Dec 2007 All Vehicles



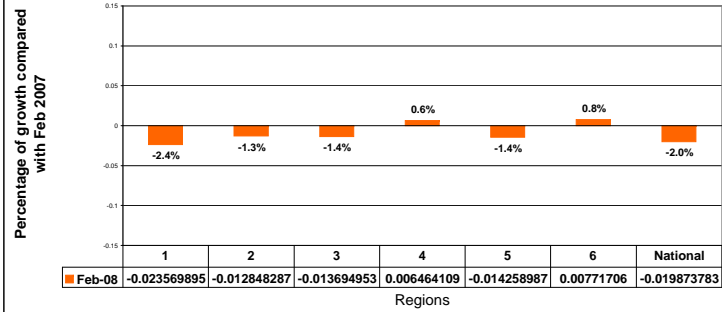
Regional Growth - Jan 2008 All Vehicles



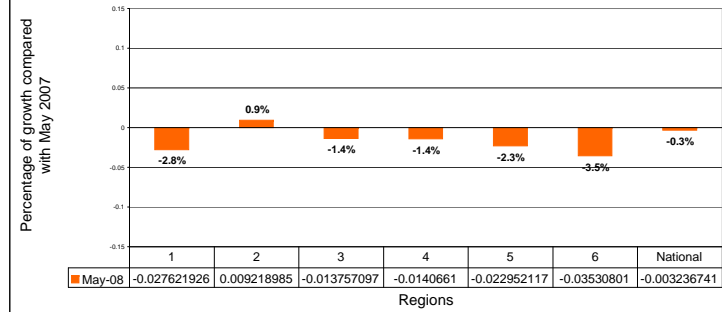
Regional Growth - Apr 2008 All Vehicles



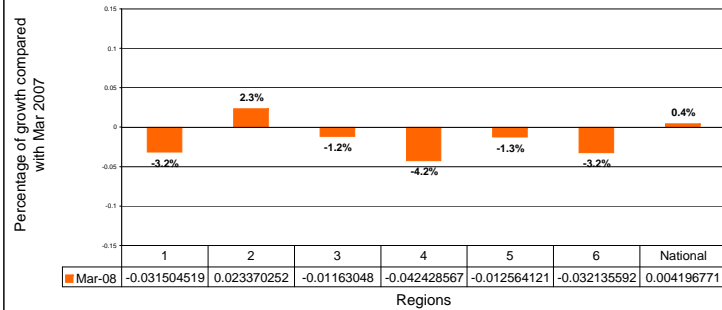
Regional Growth - Feb 2008 All Vehicles



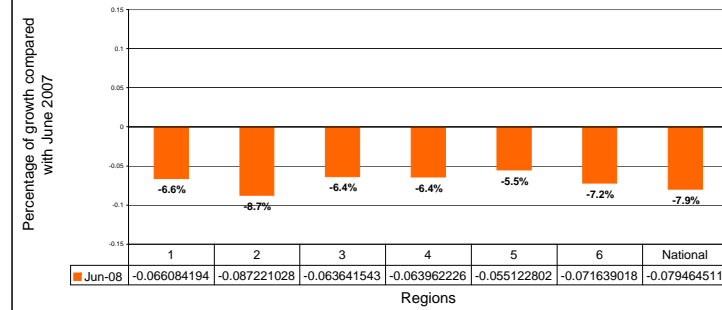
Regional Growth - May 2008 All Vehicles



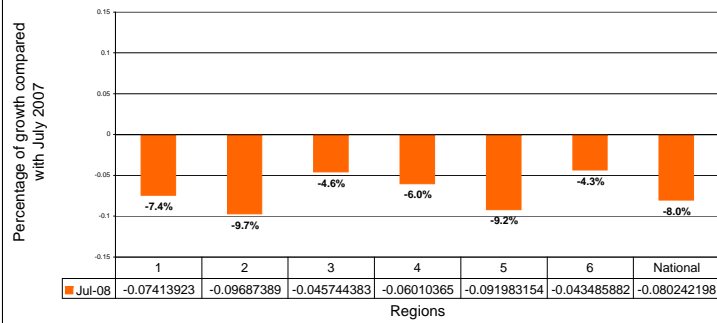
Regional Growth - Mar 2008 All Vehicles



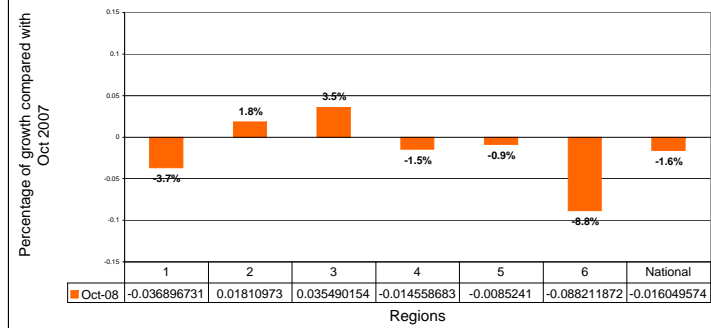
Regional Growth - June 2008 All Vehicles



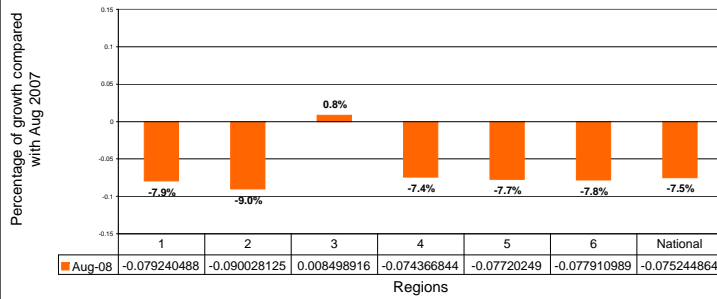
Regional Growth - July 2008 All Vehicles



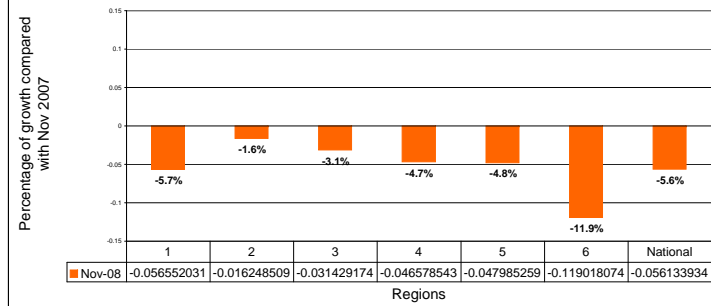
Regional Growth - Oct 2008 All Vehicles



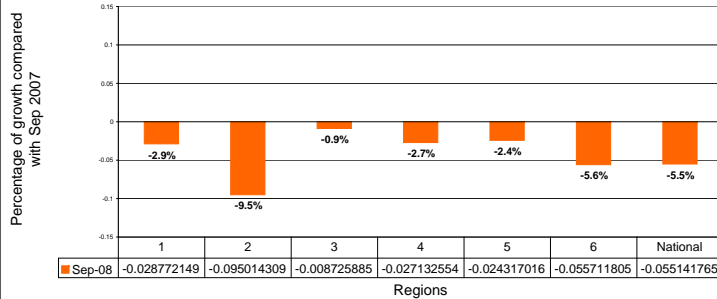
Regional Growth - Aug 2008 All Vehicles



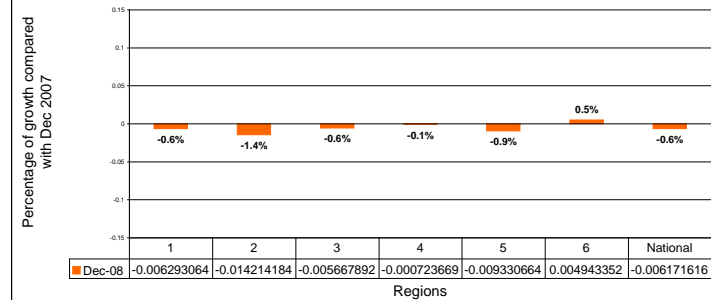
Regional Growth - Nov 2008 All Vehicles



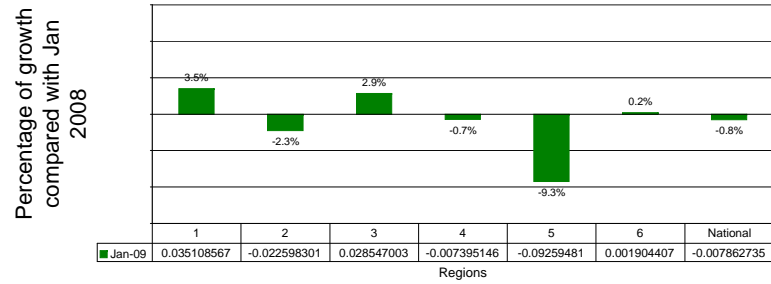
Regional Growth - Sep 2008 All Vehicles



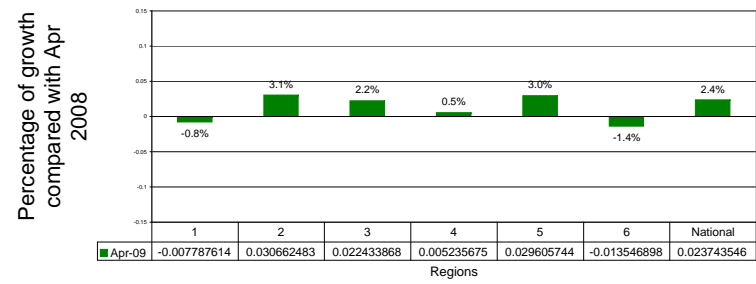
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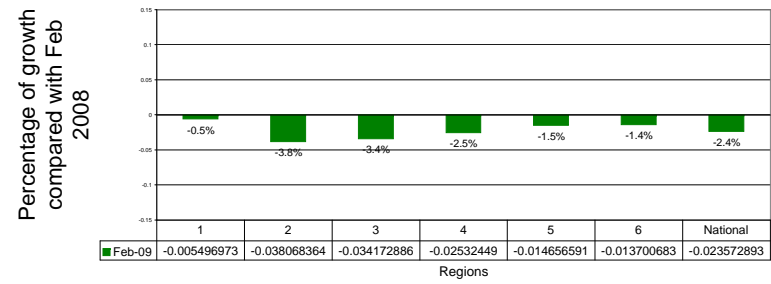
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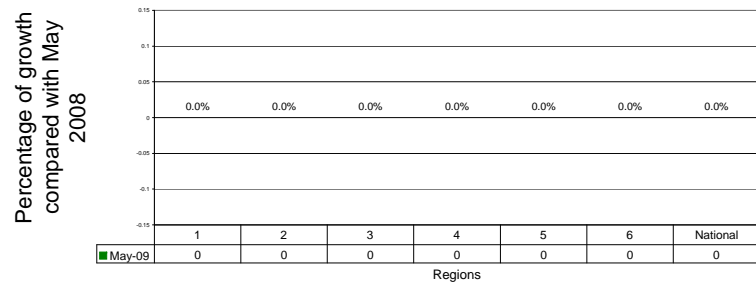
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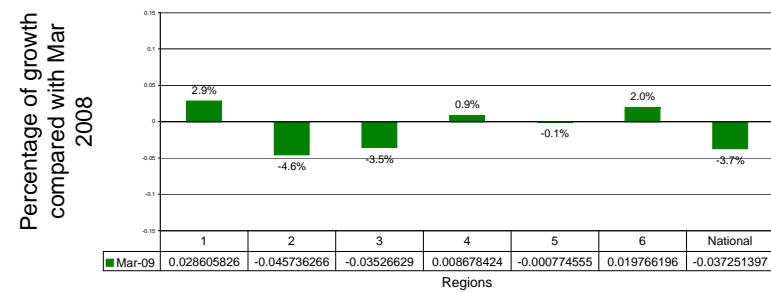
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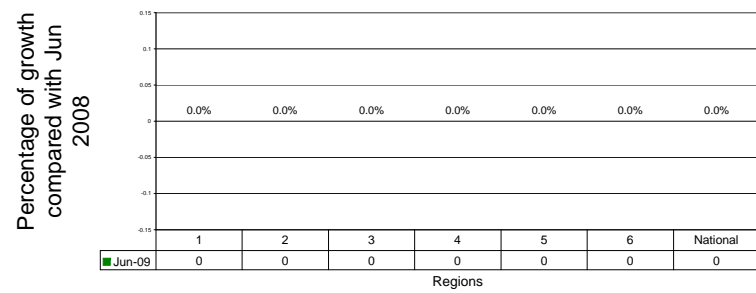
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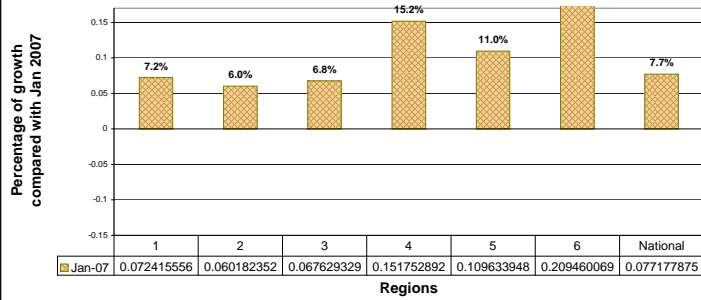
Regional Growth - Mar 2009 All Vehicles



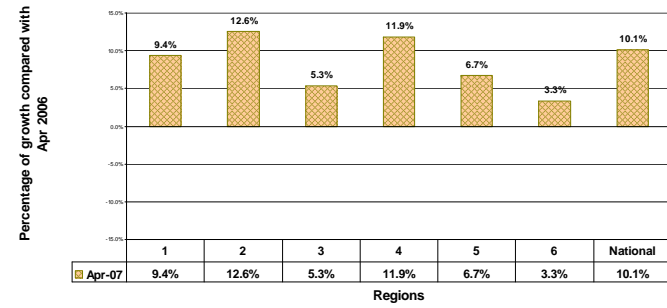
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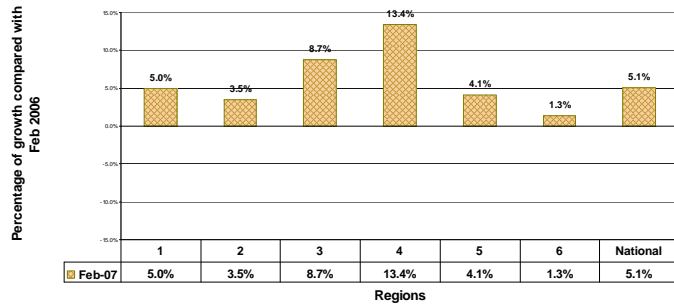
Regional Growth - Jan 2007 Heavy Vehicles



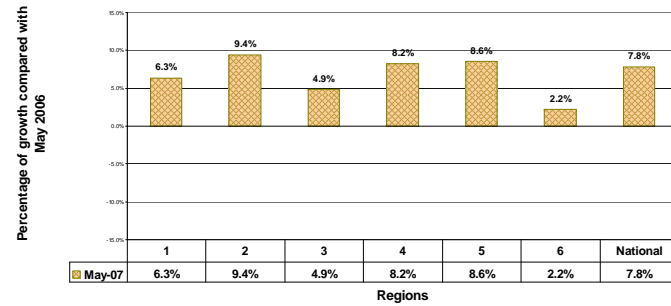
Regional Growth - Apr 2007 Heavy Vehicles



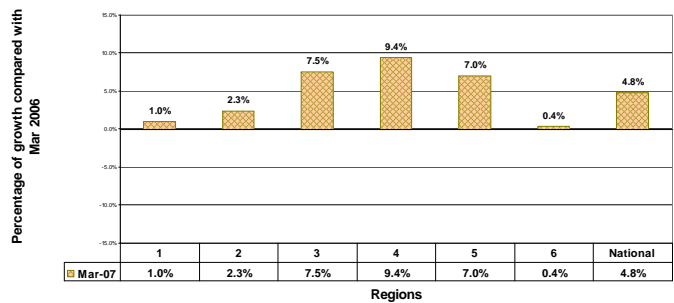
Regional Growth - Feb 2007 Heavy Vehicles



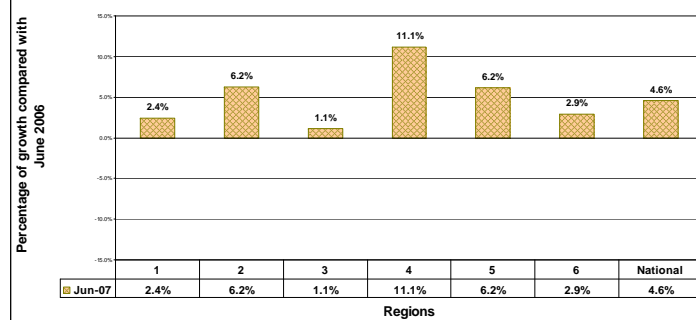
Regional Growth - May 2007 Heavy Vehicles



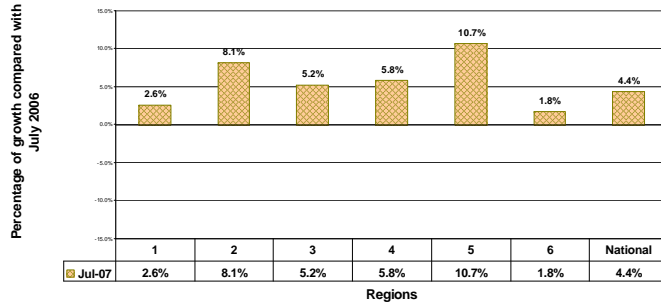
Regional Growth - Mar 2007 Heavy Vehicles



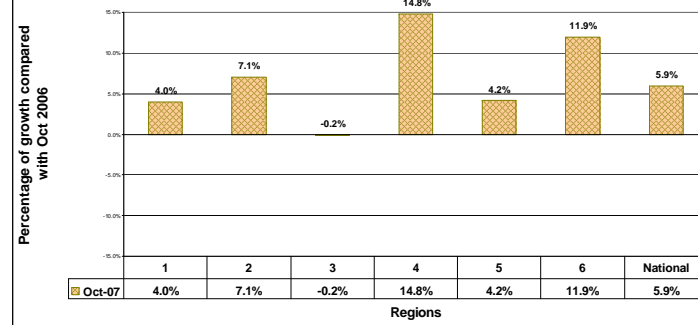
Regional Growth - June 2007 Heavy Vehicles



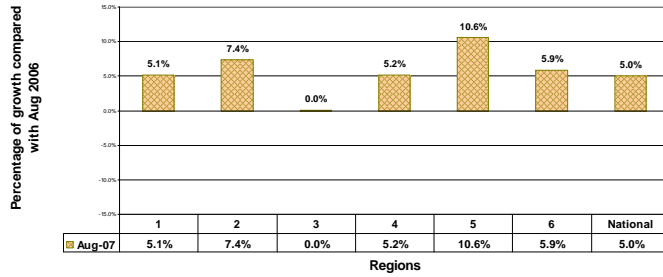
Regional Growth - July 2007 Heavy Vehicles



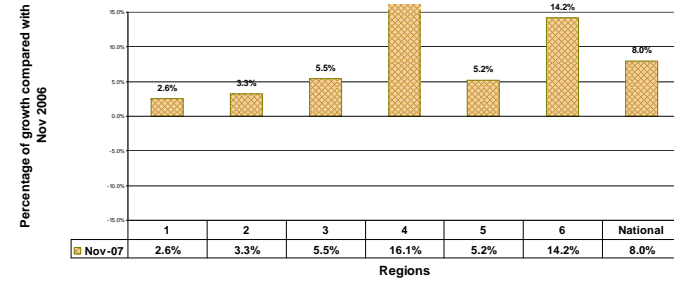
Regional Growth - Oct 2007 All Vehicles



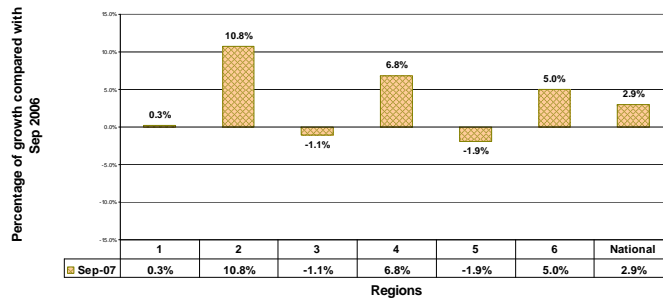
Regional Growth - Aug 2007 Heavy Vehicles



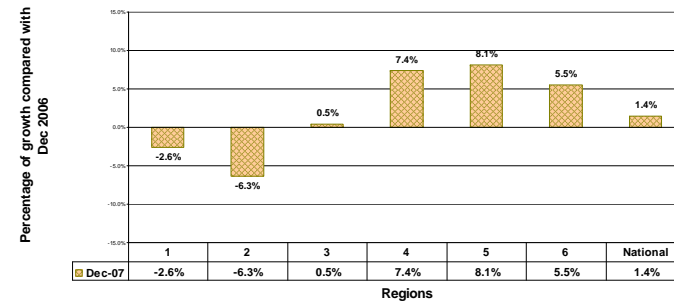
Regional Growth - Nov 2007 Heavy Vehicles



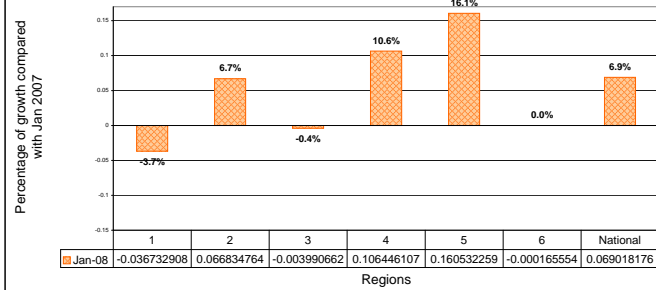
Regional Growth - Sep 2007 All Vehicles



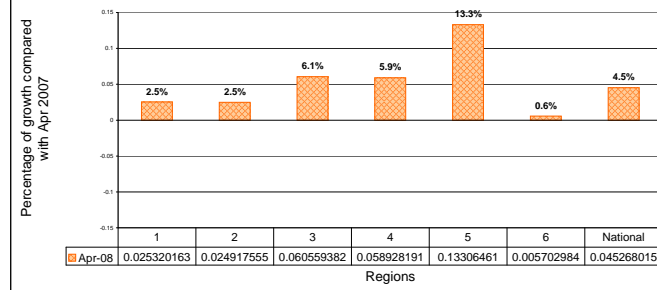
Regional Growth - Dec 2007 Heavy Vehicles



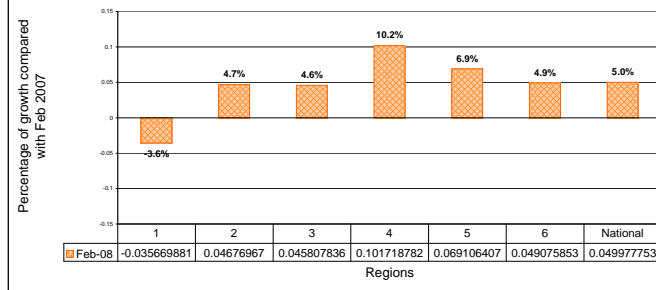
Regional Growth - Jan 2008
Heavy Vehicles



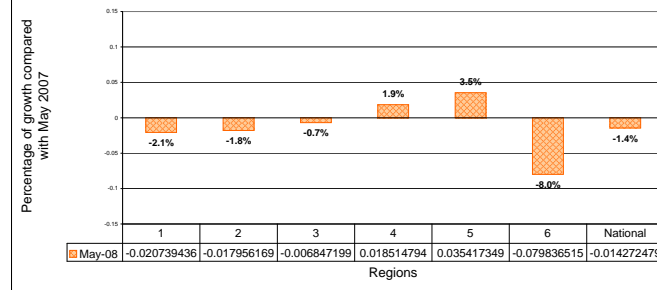
Regional Growth - Apr 2008
Heavy Vehicles



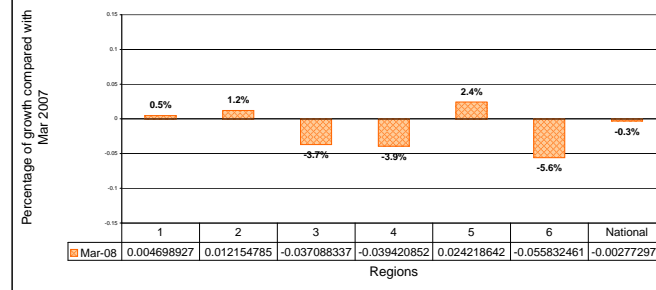
Regional Growth - Feb 2008
Heavy Vehicles



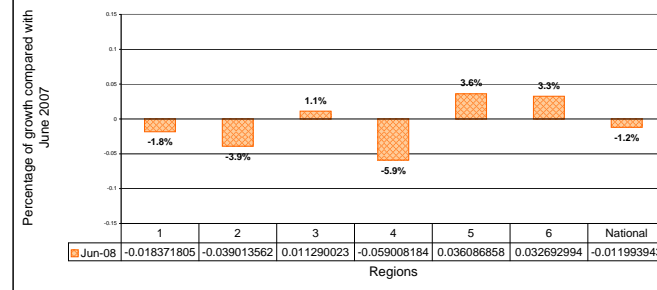
Regional Growth - May 2008
Heavy Vehicles



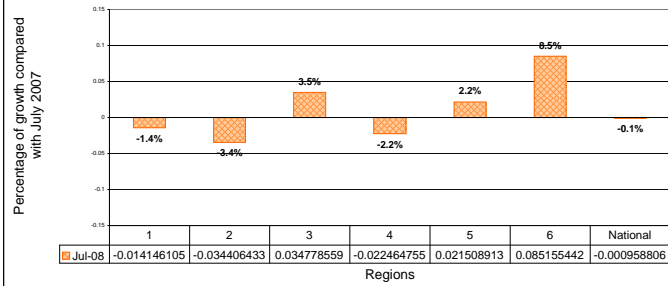
Regional Growth - Mar 2008
Heavy Vehicles



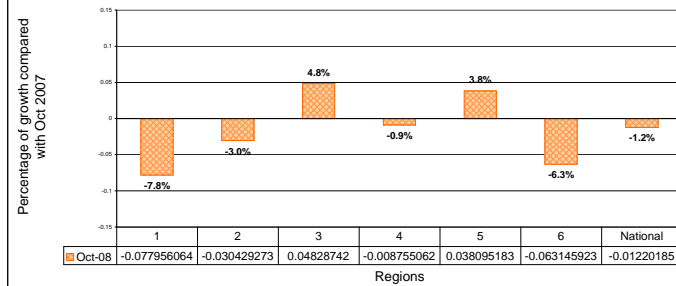
Regional Growth - June 2008
Heavy Vehicles



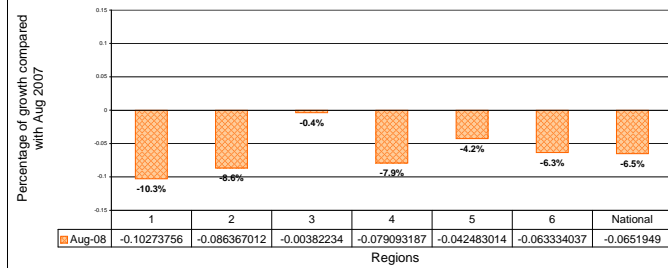
Regional Growth - July 2008
Heavy Vehicles



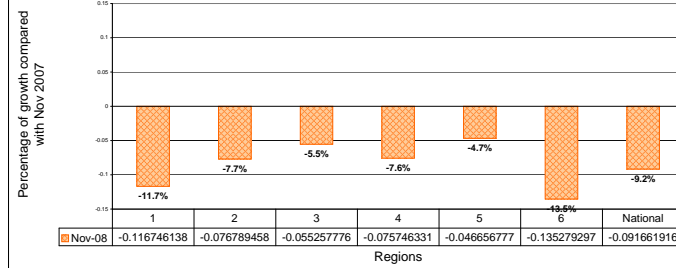
Regional Growth - Oct 2008
Heavy Vehicles



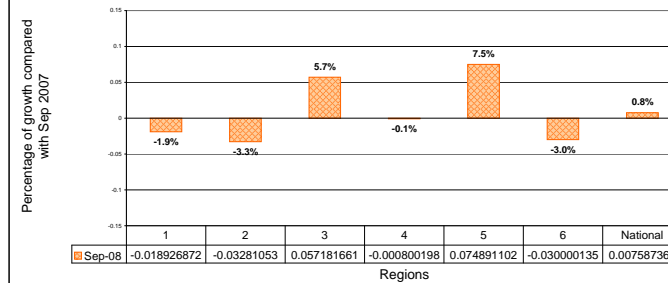
Regional Growth - Aug 2008
Heavy Vehicles



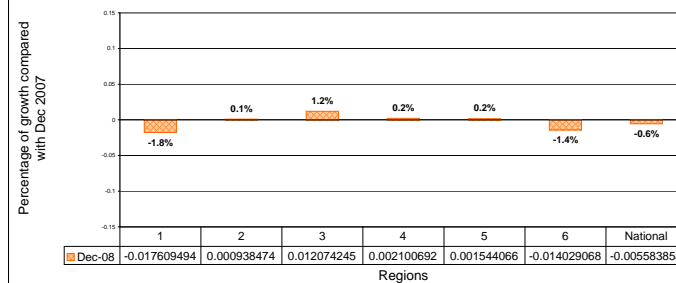
Regional Growth - Nov 2008
Heavy Vehicles



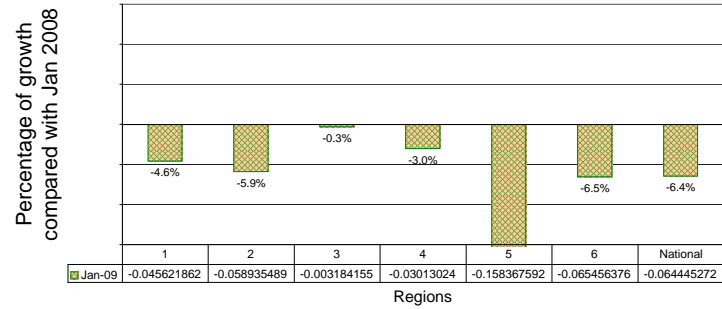
Regional Growth - Sep 2008
Heavy Vehicles



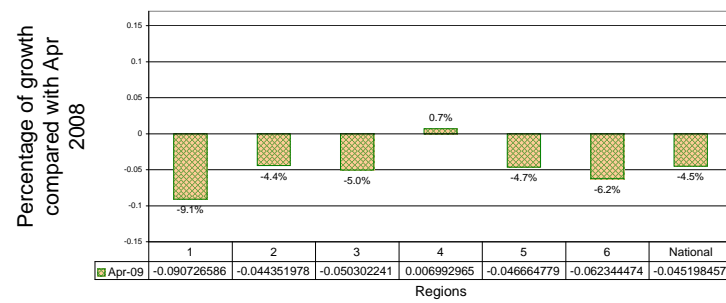
Regional Growth - Dec 2008
Heavy Vehicles



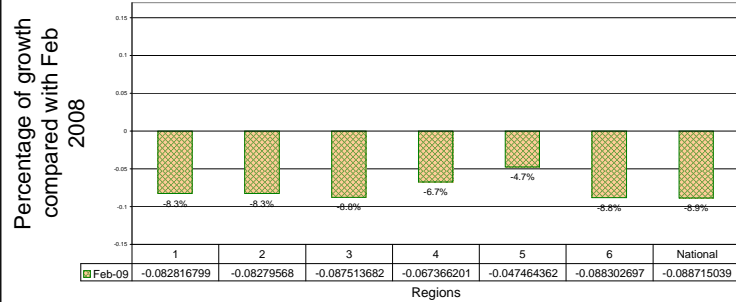
Regional Growth - Jan 2009
Heavy Vehicles



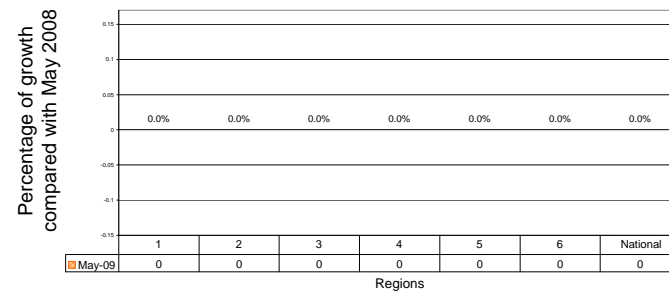
Regional Growth - Apr 2009
Heavy Vehicles



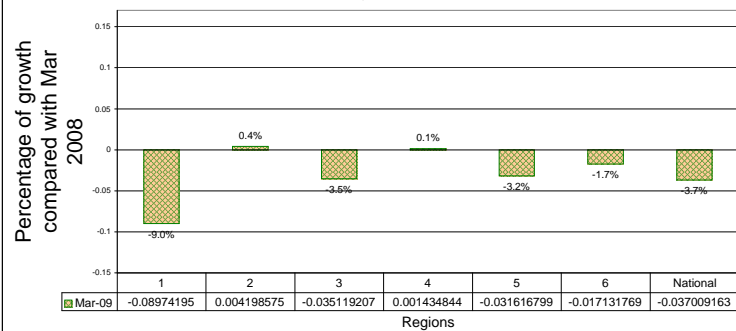
Regional Growth - Feb 2009
Heavy Vehicles



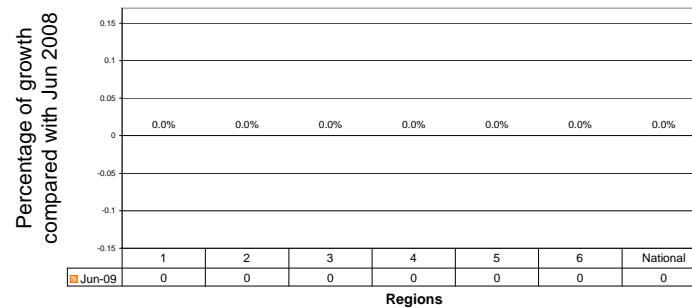
Regional Growth - May 2009
Heavy Vehicles



Regional Growth - Mar 2009
Heavy Vehicles



Regional Growth - Jun 2009
Heavy Vehicles



Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09
1	ID:01N00212	KAWAKAWA	6187	5685	5090	4971	5072	5422	6039	5912	6891	7464	6603	6302	6472
1	ID:01000029	Sth of Takou Bay Rd			3220	3036	2960		3431	3416	3744	5381	4080	3729	4037
1	ID:01N00274	Nth of Maungakaramea Rd		13584					13620	13535				14461	14893
1	ID:01200220	East of Brynderwyn Brq 161		2688		2417			2651	2727	2830		3062		2962
1	ID:01N00130	Nth of Ramseys Brq								1044					1232
1	ID:01N00265	Sth of Selwyn Avenue		22162	21364	20290	21054	21357					22219	22761	
1	ID:01N00388	HATFIELDS BEACH	17775	16548	14853	14594	14826	16051	17552	17767	20581	19605	6876	6279	6076
1	ID:01N10459	DRURY - SB	28780	28175	25893	25764	25866	27270	27904	28199	30297	28681	29162	29117	28896
1	ID:01N20459	DRURY - NB	28859	27996	26540	25986	26052	27278	28175	28249	29186	30036	29336	29520	29247
1	ID:01N00339	WELLSFORD	9127	8301	7554	7433	7358		8917	8660	10436	11660			
1	ID:01N10440	PANAMA Rd - SB	61541	61538	57765	57837	58572	61851	61182	62566	61517	57398	61880	63111	60607
1	ID:01N20440	PANAMA RD - NB	58623	58086	55241	55069	55876	59171	58470	59782	57983	56151	58456	59312	57379
1	ID:01N10474	BOMBAY - SB	17802	16623	15263	15147	15249	16233	17377	17068	19788	19226	18252	17926	18572
1	ID:01N20474	BOMBAY - NB	17776	16355	15726	15188	15169	15969	17283	16986	18224	20285	18148	18245	18615
1	ID:01N00424	Auckland Harbour Brq - Centre Span	77967	75750	69070	67950	76880	80840	79165	82306	80475	73761	77309	78775	81280
1	ID:01N10424	Auckland Harbour Brq - Left Clip-on	40842	40277	38444	38016	38804	40551	41386	42359	41939	38414	42550	43523	41312
1	ID:01N20424	Auckland Harbour Brq - Right Clip-on	40202	42790	40237	38948	34592	35216	34269	35631	29794	30641	38432	38935	36379
2	ID:00200002	MAUNGATAWHIRI	12737	11773	10618	10309	10538	11282	12703	11926	14799	16390	13621	13118	13693
2	ID:25A00011	NEEVESVILLE	3049	3342	2292	2211	2451	2590	3317	3060	4462	5925	3748	3346	3584
2	ID:02700011	KAIHERE	4247	3820	3477	3455	3474	3614	4052	3734	4307	4349	4219	4216	4640
2	ID:01N00526	TAUPIRI	20885	19901	18835	18924	18988	19725	20592	20730	21629	20987	20924	21447	21618
2	ID:01N00620	LICHFIELD	9337	8767	7951	8101	8025	8578			9490	9475	9209	9202	9421
2	ID:00300085	TE KUITI	4034	3777	3680	3935	3929	4162	5128	3808	4342	4324	3941	4061	4342
2	ID:03200074	West of Taupo	766	596	538	560	595	699	750	769	856	956	875	779	879
2	ID:01N00580	KARAPIRO	15045	13979	13473	12909	13065	13713	14731	14832	15751	15971	15333	15230	15465
2	ID:00200091	WAIHI	7451	9375	6284	6069	6099	6528	7361	7201	9252	9800	8025	7734	7876
2	ID:01N00729	HALLETTS BAY	5339	4640	4163	4933	4686	4986	5485	5127	6265	7050	5966	5363	5954
2	ID:00200141	TE PUNA	16033	15801	14268	13951	14140	14977	15434	15978	17171	16941	16374	16278	16239
2	ID:03010149	TE NGA	17684	17363	16177	16152	16231	17051	17259		17823	17317	17704	17655	17209
2	ID:03020149	East end of Puarenga Brq (Dec)	17544	17318	16222	16148	16200	16970	17222		17064	17418	17693	17539	17027
2	ID:00200204	OHINEPANEA	4893	4640	4230	4147	4082	4376	4787	4577	5297	5562	4899	4708	5035
2	ID:03000188	LAKE ROTOMA	3056	2869	2592	2526	2472	2659	2861	2729	3257	3615	3075	2887	3023
2	ID:03300030	Sth of Maungaranqi Rd Paengaroa	4047	3847	3372	3379	3429	3570	3909	3960	4407	4976	4392	4137	4332
2	ID:00500034	TARUKENGA	5435	4854	4545	4815	4421	4693	5196	5003	5554	5837	5460	5133	5677
2	ID:02900034	KAIMAI	9546	8825	8775	7933	8361	8431	9089	9049	10186	10167	9402	9361	9469
2	ID:00500057	WAIPA	7310	6864	6061	6386	6296	6646	7176	7110	7673	8134	7851	7464	7794
3	ID:00200428	ORMOND	2960	2235	2124	2090	2106	2178	2431	2326	2780	3278	2569	2509	2467
3	ID:00200627	TANGOIO	2038	1859	1739	1739	1687	1843	2087	2029	2348	2539	2234	2162	2309
3	ID:00500230	TE POHUE	2924	2425	2208	1907	2155	2344	2862	2684	3167	3506	3261	3136	3214
3	ID:05000010	Nth of Tutaekuri River	20811	19184	18633	18979	23484	20339	20518	20847	21094	19958	21252	22081	21536
3	ID:00300171	TONGAPORUTU Brq	2128	1901	1824	1796	1730	1870	2157	1999	2406	2606	2240	2312	2514
3	ID:00300267	TARIKI	8656	8620	8054	8011	7964	8270	8402	9013	8947	8121	6690	6976	8914
3	ID:00300370	WAITOTARA	3481		2893	3045	2986	3205	3421	3457	3666	3581	3552	3566	3594
3	ID:04500101	OHAWA BEACH Rd	4236	4180	3817	3870	3983	4475	4600	4879	4813	4612	4606	4485	4432
3	ID:01N00930	SANSON	12226	11327	10503	10723	10680	11135	11946	11759	12760	12776	12666	12324	12789

Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09
3	ID:01N00988	OHAU	15362	14439	13007	13290	13395	13983	15057	14789	16202	16317	15761	15318	13220
3	ID:00200755	NORSEWOOD	4130	3662	3236	3359	3213	3438	3984	3959	4515	4803	4492	4341	4370
3	ID:00300489	MANAWATU GORGE	6927	6564	6039	6054	5891	6205	6650	5999	7363	7468	7164	7153	7184
3	ID:00400133	HOROPITO	1704	1479	1605	2131	2241	2254	2092	1745	1945	2112	1916	1776	1927
3	ID:00400226	UPOKONGARO	2008	1834	1733		1752	2126	1881	1968	2125	2060		1962	2085
3	ID:01N00827	HIHITAHU	4735			4073			4641	4843	5211	5945	5172	4582	5226
4	ID:01N11068	NGAURANGA - SB	22516	22319	21236	21396	21576	22218	22170	22502	21638	20438	22933	22863	22103
4	ID:00200895	CLAREVILLE		10134	9480	9241	9341	9967	10236	10680	11010	10514	10787	10798	10633
4	ID:00200937	RIMUTAKA	5570	4980	4529	4372	4387	4815	5288	5541	6021	6364	6102	5965	6118
4	ID:01N01036	PUKERUA BAY			20451	20530	20879	21565	22925	22722	24285	23718	24055	23653	23974
4	ID:01N21068	NGAURANGA - NB	22213			21004	21379	21933	21866	22287	21579	19852	22820	22946	22085
4	ID:05800009	Pauatahanui East	13982	13852	12846	12422	12870	13298	13674	14133	14488	13432	14232	14563	14041
4	ID:00210979	NGAURANGA SH2 - SB	21938	21622	20102	20403	20529	21467	21454	21738	20802	19058	21934	21937	20661
4	ID:00220979	NGAURANGA SH2 - NB	21536			20437	20409	21291	21224	21465	20489	18741	21648	21925	21107
4	ID:00600122	STOKE	19204	19903	18737	18278	19028	19305	20042	20282	21755	21579	21450	20881	20322
4	ID:00600232	MURCHISON	1815	1445	1187	1166	1220	1369	1714	1775	2264	2736	2308	2026	2027
4	ID:00600100	HIRA	3322	3624	2666	2677	2724	2866	3118	3295	3638	4031	3821	3527	3356
4	ID:06000040	Riwaka	3764	2999	2561	2412	2538	2806	3471	3868	5468	6737	5187	4319	4417
4	ID:01S00037	Blenheim	4265	4720	3405	3431	3129	3371	3719	3900	4321	4657	4478	4150	4449
5	ID:01S00389	DUNSANDEL	10184	9311	8613	9162	8829	9457	10292	10107	10686	10636	10636	10473	10488
5	ID:01S00505	EVANS St Timaru	20930	19919	18486	19115	18981	20054	20888	21090	22330	21221	21155	20900	20966
5	ID:07300064	Springfield	1687	1275	1099	1357	1526	1527	1644	1617	1800	2005	2303	1900	1872
5	ID:07400006	SEMI Obsolete - Cranford St	21497	21278	20194	20066	20424	20810	20780	21188	21073	19310	21396	21649	
5	ID:01S00144	KAIKOURA	2576	2081	1883	1889	1630	1938	2356	2568	3039	3519	3127	2662	2882
5	ID:01S00522	ST ANDREWS	5977	5488	4878	5110	4865	5229	5734	5804	6316	6098	6201	6024	6174
5	ID:00700108	LEWIS PASS	1230	961	818	777	857	942	1192	1125	1471	1799	1416	1266	1382
5	ID:07409005	QE II Drive East Of Main Nth Rd	18944	18511	17870	17533	17511	18395		19211	20067	17767	18993	19244	
5	ID:00600454	CHESTERFIELD	2795	2447	2139	2221	2244	2502	2815	2947	3062	3174	3256	3861	2867
5	ID:00700239	AHAURA	1236	1124	1041	1062	1120	1128	1235	1277	1296	1333	1392	1665	1319
5	ID:00600398	PUNAKAIKI	1002					774	964	1018	1183	1372	1327	1452	1018
6	ID:00800336	ALEXANDRA	2129	1809	1619	1730	1840	1912	2060	2013	2464	2756	2813	2267	2317
6	ID:01S10713	BURNSIDE - SB	15638	15444	14539	14906	14797	15455	15445	15906	15759	13984	15870	15803	
6	ID:01S20713	BURNSIDE - NB	10331	10558	9823	10183	9982	10497	10537	10786	10681	9627	10823	10762	10308
6	ID:01S50713	BURNSIDE - NB On Ramp	2383	2460	2407	2410	2401	2522	2491	2546	2497	2262	2486	2502	2427
6	ID:01S60713	BURNSIDE - SB Off Ramp	3244	3041	2857	2844	2881	3048	3051	3113	3027	2723	3092	3092	2945
6	ID:01S40713	BURNSIDE - NB Off Ramp	3634	3345	3117	3120	3168	3240	3276	3389	3326	2973	3380	3419	3261
6	ID:01S40714	Burnside - NB Off Ramp	2459	2136	2038	2000	2040	2175	2179	2220	2140	1954	2192	2179	2092
6	ID:01S00765	MILTON	6385		5023	5325	5269	5540	5978	6185	6633	6516	6850	6608	
6	ID:01S00921	INVERCARGILL	11528	11480	10937	10870	10974	11316	11268	11822	11826	10560	12147	12294	11509
6	ID:00601147	WINTON	4632	4536	4089	4122	4232	4384	4572	4898	4948	4509	4882	4792	4656
6	ID:01S00854	GORE	4065	3907	4151	3475	3538	3676	3952	4099	4323	4083	4416	4137	4158

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1	ID:01N00212	KAWAKAWA	694	623	542	523	539	635	701	688	676	728	696	703	689
1	ID:01000029	Sth of Takou Bay Rd			264	233	220		274	289	296	382	304	289	322
1	ID:01N00274	Nth of Maungakaramea Rd		1492					1423	1479				1601	1503
1	ID:01200220	East of Brynderwyn Brq 161		300		237			301	348	318		286		233
1	ID:01N00130	Nth of Ramseys Brq								160					149
1	ID:01N00265	Sth of Selwyn Avenue		2291	2206	2053	2170	2282					994	1015	
1	ID:01N00388	HATFIELDS BEACH	1431	1408	1201	1117	1099	1272	1338	1361	1467	1247	363	327	293
1	ID:01N10459	DRURY - SB	2658	2616	2369	2369	2203	2468	2424	2490	2447	2278	2486	2539	2394
1	ID:01N20459	DRURY - NB	2591	2525	2303	2280	2114	2336	2315	2386	2282	2229	2392	2427	2303
1	ID:01N00339	WELLSFORD	1041	990	906	872	867		940	957	989	1064			
1	ID:01N10440	PANAMA Rd - SB													
1	ID:01N20440	PANAMA RD - NB													
1	ID:01N10474	BOMBAY - SB	2127	2041	1894	1826	1746	1949	1959	2001	1992	1834	2006	2017	1949
1	ID:01N20474	BOMBAY - NB	2114	2059	1899	1831	1736	1900	1940	1994	1885	1884	2001	2006	1925
1	ID:01N00424	Auckland Harbour Brq - Centre Span													
1	ID:01N10424	Auckland Harbour Brq - Left Clip-on													
1	ID:01N20424	Auckland Harbour Brq - Right Clip-on													
2	ID:00200002	MAUNGATAWHIRI	1831	1704	1497	1474	1451	1588	1633	1616	1605	1593	1631	1696	1628
2	ID:25A00011	NEEVESVILLE	285	323	221	214	290	331	352	318	371	447	301	279	303
2	ID:02700011	KAIHERE	871	829	723	710	726	800	855	783	764	731	806	892	803
2	ID:01N00526	TAUPIRI	2249	2209	2041	2029	1967	2176	2240	2330	2145	1975	2151	2150	2058
2	ID:01N00620	LICHFIELD	1571	1497	1310	1310	1297	1499	1565		1365	1289	1407	1497	1413
2	ID:00300085	TE KUITI	728	710	634	632	603	666	850	682	689	636	683	692	691
2	ID:03200074	West of Taupo	99	90	73	63	70	94	94	115	111	103	138	140	146
2	ID:01N00580	KARAPIRO	1887	1852	1765	1687	1778	1879	1890	1997	2127	1867	1992	1974	1569
2	ID:00200091	WAIHI	866	1105	705	697	676	749	809	798	789	855	873	855	846
2	ID:01N00729	HALLETTS BAY	867	844	727	736	697	766	797	839	823	821	847	862	798
2	ID:00200141	TE PUNA	1306	1326	1041	1030	1016	1155	1128	1166	1099	1084	1155	1216	1213
2	ID:03010149	TE NGA	933	905	793	817	813	894	887		890	907	970	1352	1213
2	ID:03020149	East end of Puarenga Brq (Dec)	1002	931	796	789	798	924	929		874	941	1056	1149	1036
2	ID:00200204	OHINEPANEA	760	741	622	602	634	708	774	745	695	693	711	702	791
2	ID:03000188	LAKE ROTOMA	324	336	300	280	289	324	348	307	324	345	351	346	324
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	598	582	485	490	506	549	565	574	529	535	570	568	585
2	ID:00500034	TARUKENGA	608	579	488	491	489	569	568	591	574	585	617	587	574
2	ID:02900034	KAIMAI	1419	1330	1219	1103	1167	1238	1309	1286	1312	1199	1237	1245	1208
2	ID:00500057	WAIPA	884	820	703	747	725	794	798	807	714	742	813	825	813
3	ID:00200428	ORMOND	345	250	231	216	206	216	233	240	245	309	268	339	257
3	ID:00200627	TANGOIO	387	358	353	351	310	344	371	372	337	377	401	424	402
3	ID:00500230	TE POHUE	608	534	475	401	434	470	500	507	458	480	515	561	544
3	ID:05000010	Nth of Tutaekuri River	1460	1334	1269	1274	1609	1419	1397	1353	1271	1231	1366	1486	1527
3	ID:00300171	TONGAPORUTU Brq	411	397	350	355	344	375	399	383	384	386	392	386	381
3	ID:00300267	TARIKI	912	916	801	843	812	945	951	989	896	834	775	811	997
3	ID:00300370	WAITOTARA	573		425	422	434	501	538	582	506	461	474	501	492
3	ID:04500101	OHAWA BEACH Rd	348	297	220	236	354	561	601	596	533	490	447	448	418
3	ID:01N00930	SANSON	1569	1488	1351	1331	1281	1392	1491	1560	1482	1401	1484	1475	1428

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3	ID:01N00988	OHAU	1574	1547	1401	1416	1379	1465	1535	1564	1496	1429	1515	1534	1233
3	ID:00200755	NORSEWOOD	714	631	534	522	494	567	618	681	628	698	691	685	640
3	ID:00300489	MANAWATU GORGE	908	834	743	719	665	735	786	774	829	875	887	869	869
3	ID:00400133	HOROPITO	325	302	295	290	277	268	279	297	297	321	344	323	309
3	ID:00400226	UPOKONGARO	194	174	170		141	173	150	173	161	158		172	192
3	ID:01N00827	HIHITAHU	964			826			908	1043	897	897	925	923	901
4	ID:01N11068	NGAURANGA - SB	812	788	768	773	771	815	792	807	745	716	785	784	818
4	ID:00200895	CLAREVILLE		570	515	480	477	598	622	674	593	587	638	642	608
4	ID:00200937	RIMUTAKA	358	312	276	249	240	273	289	327	315	323	337	350	456
4	ID:01N01036	PUKERUA BAY			1484	1517	1448	1555	1606	1657	1528	1405	1556	1582	1520
4	ID:01N21068	NGAURANGA - NB	694			641	652	701	719	729	693	718	718	731	689
4	ID:05800009	Pauatahanui East	460	459	398	382	380	423	429	454	449	420	442	470	445
4	ID:00210979	NGAURANGA SH2 - SB	748	745	673	706	686	729	754	738	676	640	719	726	685
4	ID:00220979	NGAURANGA SH2 - NB	679			669	662	701	721	706	655	619	692	697	659
4	ID:00600122	STOKE	1300	1267	1138	1105	1149	1211	1274	1280	1194	1236	1308	1365	1302
4	ID:00600232	MURCHISON	278	257	210	204	236	245	276	287	312	379	334	314	282
4	ID:00600100	HIRA	491	546	394	417	429	455	463	473	449	489	505	510	483
4	ID:06000040	Riwaka	275	234	161	131	159	183	237	259	328	385	336	306	318
4	ID:01S00037	Blenheim	729	755	515	496	445	522	564	599	558	583	594	600	709
5	ID:01S00389	DUNSANDEL	1490	1408	1211	1256	1233	1471	1654	1587	1537	1507	1549	1479	1425
5	ID:01S00505	EVANS St Timaru	1568	1443	1187	1251	1278	1559	1613	1651	1538	1476	1612	1578	1459
5	ID:07300064	Springfield	218	180	138	131	140	192	211	206	206	217	282	229	220
5	ID:07400006	SEMI Obsolete - Cranford St	651	611	571	556	513	427	461	456	428	411	450	477	
5	ID:01S00144	KAIKOURA	505	477	433	417	367	430	468	500	490	508	522	493	495
5	ID:01S00522	ST ANDREWS	940	876	704	725	754	889	973	987	940	930	989	935	908
5	ID:00700108	LEWIS PASS	202	181	154	151	192	166	185	180	211	258	206	201	192
5	ID:07409005	QE II Drive East Of Main Nth Rd	632	550	537	525	474	569		569	600	538	563	578	
5	ID:00600454	CHESTERFIELD	299	246	172	187	210	321	364	374	343	349	370	403	293
5	ID:00700239	AHAURA	215	204	179	173	203	183	201	215	175	186	200	240	184
5	ID:00600398	PUNAKAIKI	101					107	124	123	116	122	134	150	99
6	ID:00800336	ALEXANDRA	212	185	165	172	176	187	196	196	235	270	270	212	218
6	ID:01S10713	BURNSIDE - SB	698	654	717	811	789	864	873	893	852	800	628	745	
6	ID:01S20713	BURNSIDE - NB	616	598	519	551	530	463	607	625	585	560	621	645	597
6	ID:01S50713	BURNSIDE - NB On Ramp	137	128	122	118	117	118	112	112	108	104	112	116	113
6	ID:01S60713	BURNSIDE - SB Off Ramp	233	214	199	190	197	207	199	196	187	180	197	202	190
6	ID:01S40713	BURNSIDE - NB Off Ramp	232	213	186	188	185	188	193	194	185	178	199	208	197
6	ID:01S40714	Burnside - NB Off Ramp	89	73	69	64	67	77	72	71	67	67	71	72	70
6	ID:01S00765	MILTON	965		698	697	632	737	823	803	857	804	908	888	
6	ID:01S00921	INVERCARGILL	455	438	414	436	412	441	410	443	454	412	464	460	419
6	ID:00601147	WINTON	477	448	342	371	419	451	500	521	501	470	509	495	467
6	ID:01S00854	GORE	507	483	442	360	387	439	490	502	502	457	539	528	489