



Traffic Volumes Monthly Report **January 2009**

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Quality Assurance Statement

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Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	13/2/2009	First draft	Neil Beckett	Neil Beckett	Chris Parkman

Overview

Summary

The purpose of this document is to report on the monthly traffic volume changes in January 2009. This report also covers annual traffic trends for the period of 1989 to 2007.

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

In January 2009, compared with January 2008, the monthly average daily traffic (MADT) for all vehicles had reduced by 0.8 percent and the MADT for heavy vehicles also had a drop of 6.4 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 86 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	17
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.

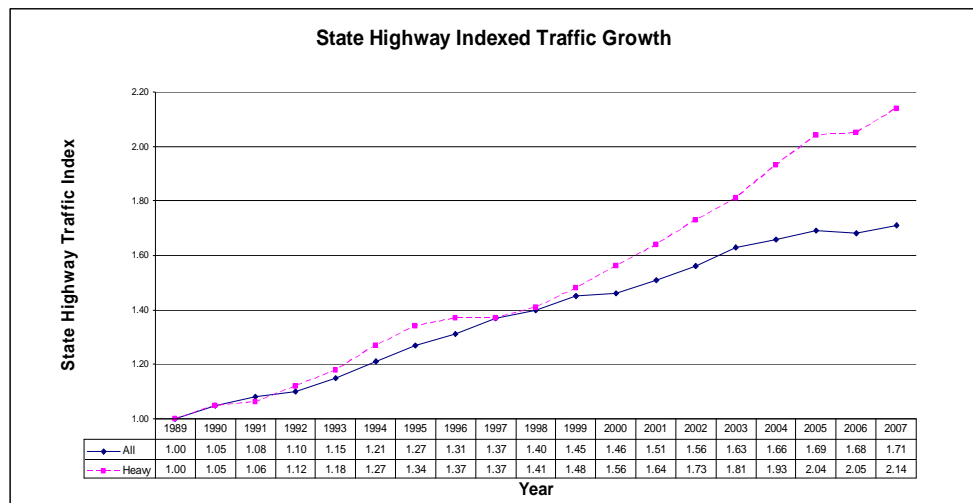
¹ Telemetry sites are continuously monitored 24/7.

Key Results

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

Interpretation of the graph: Both indexes for all vehicles and heavy vehicles only have continued to grow. In recent years, the only exception to this trend was that in 2006, there was a minor reduction in cars and light vehicles whilst the number of heavy vehicles showed negligible growth. The rate of traffic growth for the past ten years is around 3% for all vehicles and 7% for heavy vehicles. This graph will be updated with 2008 data within the next two months.

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 January 2009, January 2008 and percentage of difference compared are reported in the table below.

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) January-08	MADT (All Vehicles) January-09	% Change
Auckland harbour bridge (SH1)	Auckland	134367	142816	6%
Karapiro (SH1)	Hamilton	15945	15971	0%
Ngauranga Interchange (SH 1 and SH 2combined)	Wellington	79257	78089	-1%
Cranford Street	Christchurch	20075	19310	-4%
Burnside (SH1)	Dunedin	23933	23611	-1%

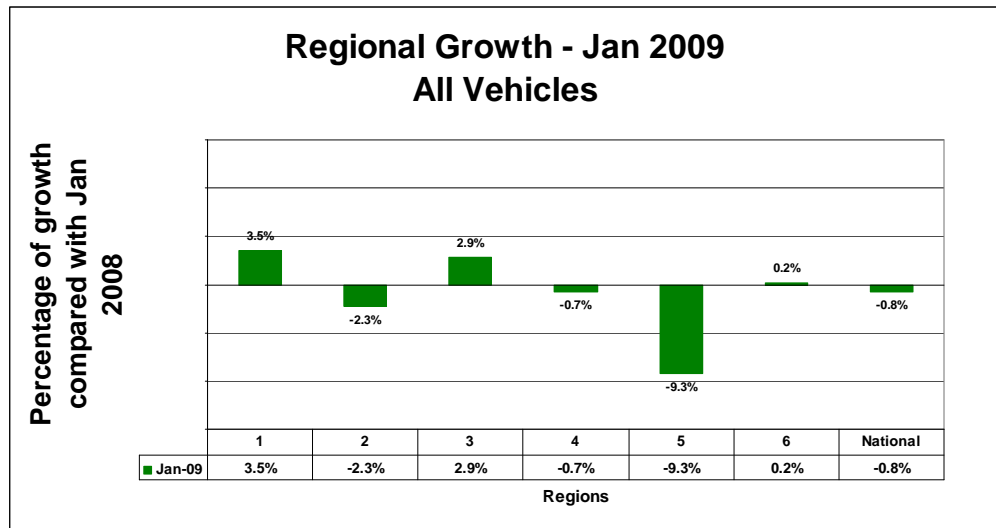
Overall the MADT values decreased in January when compared to the same period in the previous year with Christchurch showing the largest drop of 4 percent.

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 three regions had decreases in MADT with Christchurch having the largest downward contribution of 9.3% for this period. Nationally, the MADT in January 2009 for all vehicles dropped a minimal of 0.8% compared with January 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

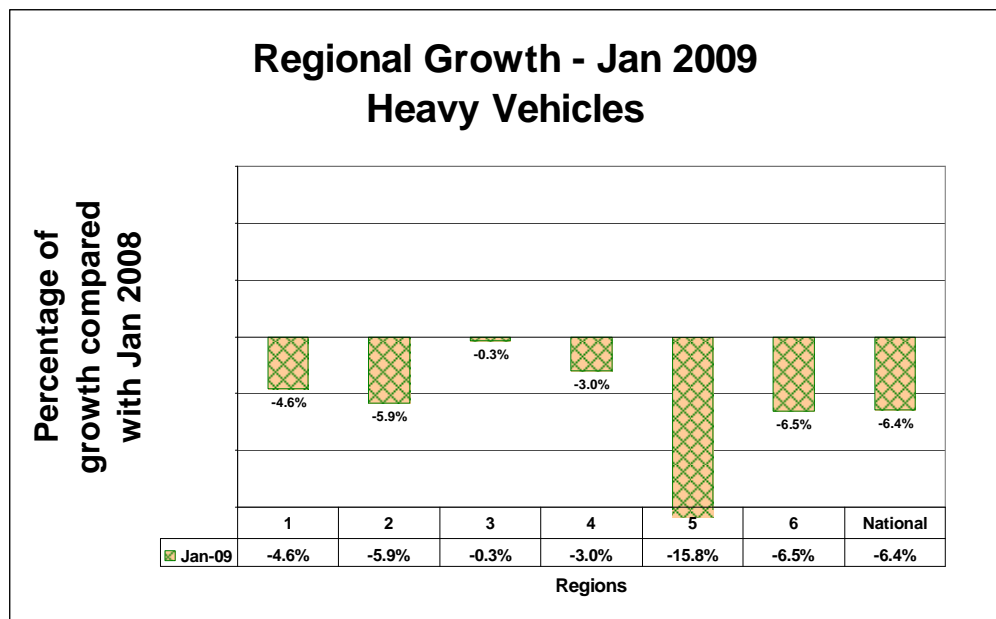
A table of MADT (all vehicles) values for all national telemetry sites is attached to this report.

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 MADT for heavy vehicles decreased in all the regions compared with the same month in the previous year. The largest decrease was 15.8% in Region 5. Nationally, the MADT in January 2009 for heavy vehicles decreased 6.4% compared with January 2008. The high traffic volume of heavy vehicles observed in January 2008 contributed to the significant decrease observed in this comparison.



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

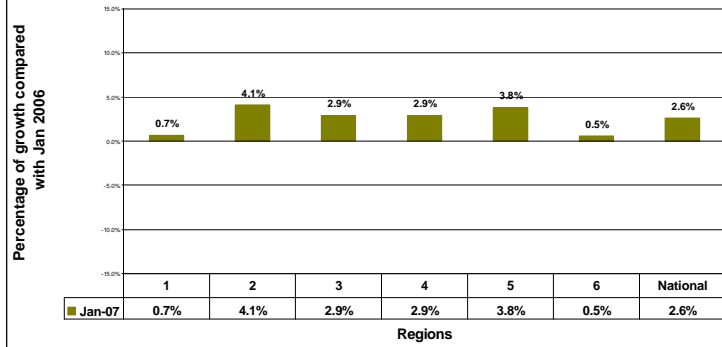
Current and Previous Years Growth Graphs for 2007, 2008 and 2009

- **All Vehicles**
- **Heavy Vehicles**

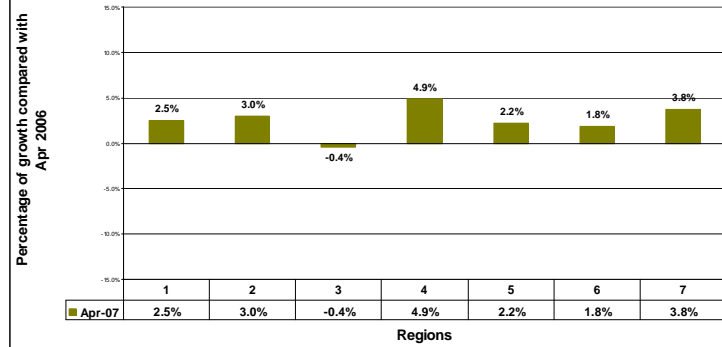
Telemetry Site MADT's for the past twelve months

- **All Vehicles**
- **Heavy Vehicles**

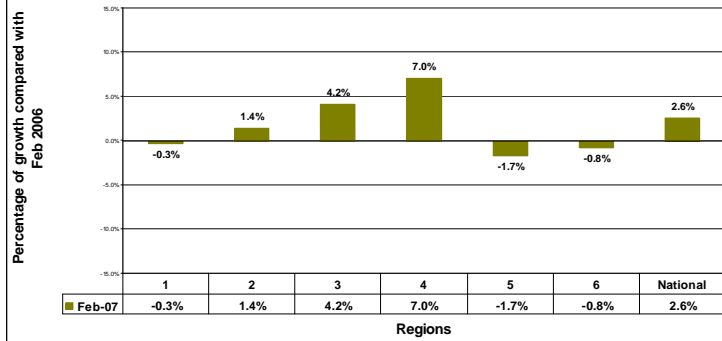
Regional Growth - Jan 2007 All Vehicles



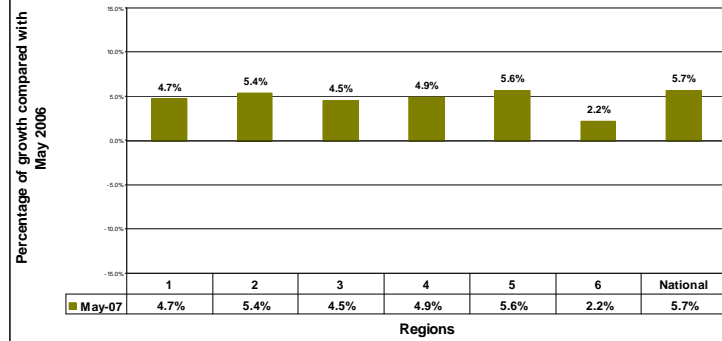
Regional Growth - Apr 2007 All Vehicles



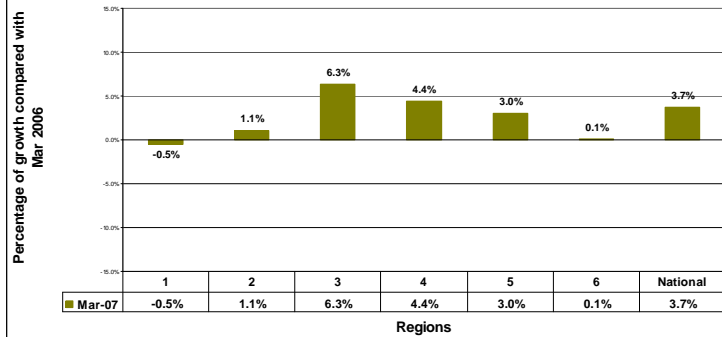
Regional Growth - Feb 2007 All Vehicles



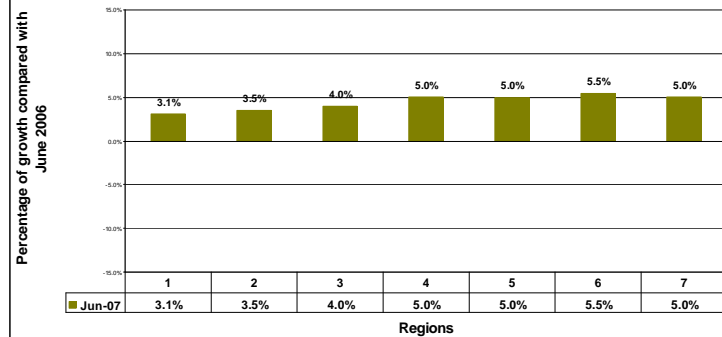
Regional Growth - May 2007 All Vehicles



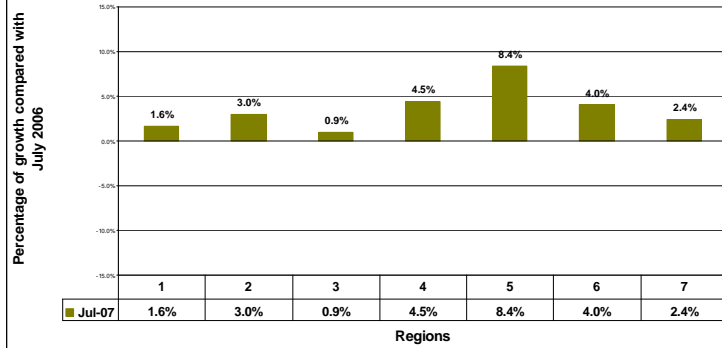
Regional Growth - Mar 2007 All Vehicles



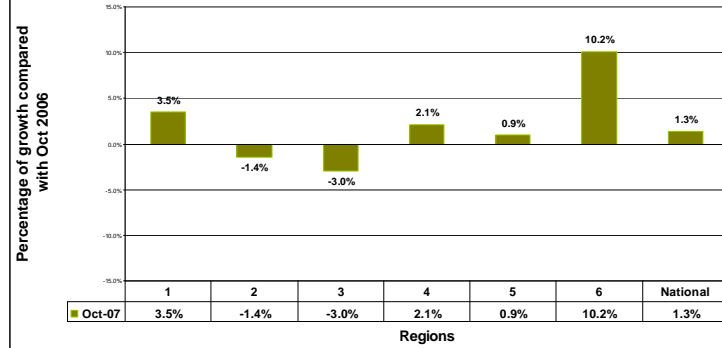
Regional Growth - June 2007 All Vehicles



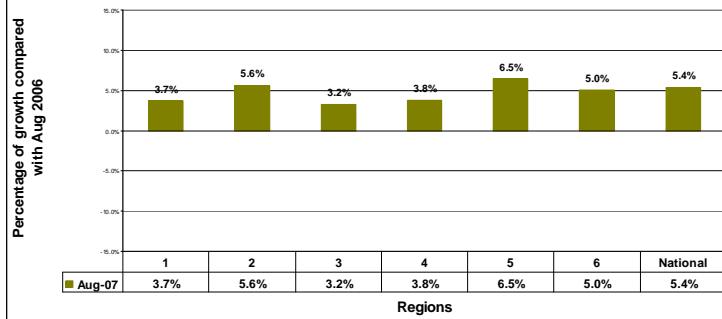
Regional Growth - July 2007 All Vehicles



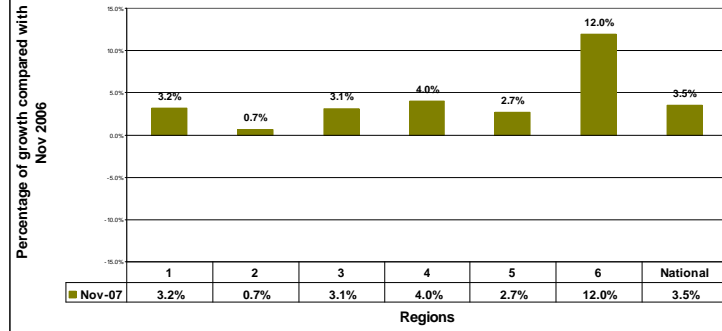
Regional Growth - Oct 2007 All Vehicles



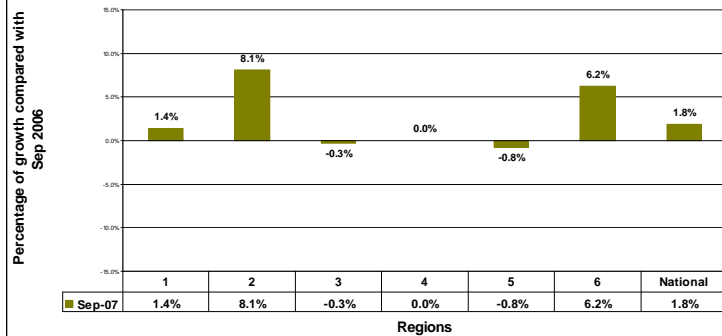
Regional Growth - Aug 2007 All Vehicles



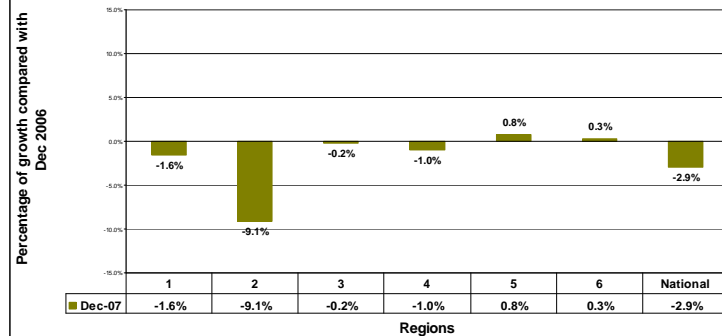
Regional Growth - Nov 2007 All Vehicles



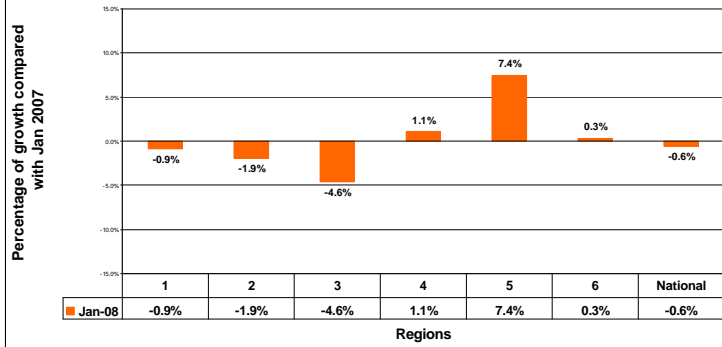
Regional Growth - Sep 2007 All Vehicles



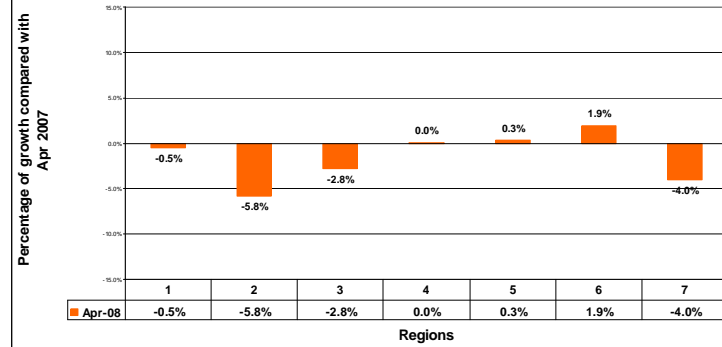
Regional Growth - Dec 2007 All Vehicles



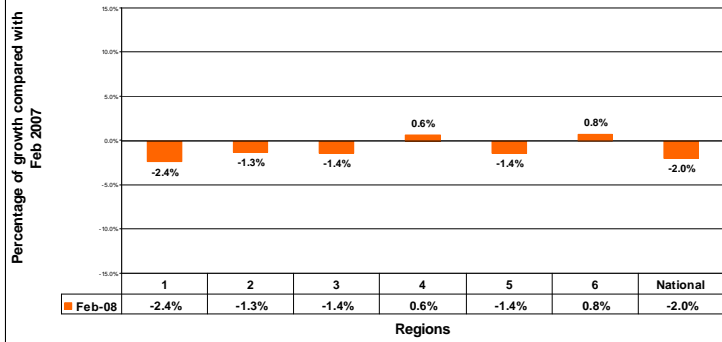
Regional Growth - Jan 2008 All Vehicles



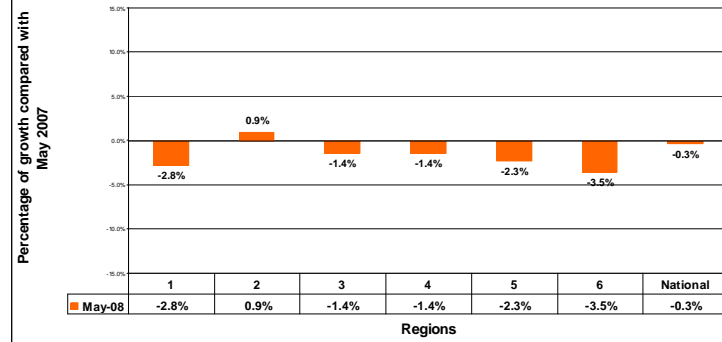
Regional Growth - Apr 2008 All Vehicles



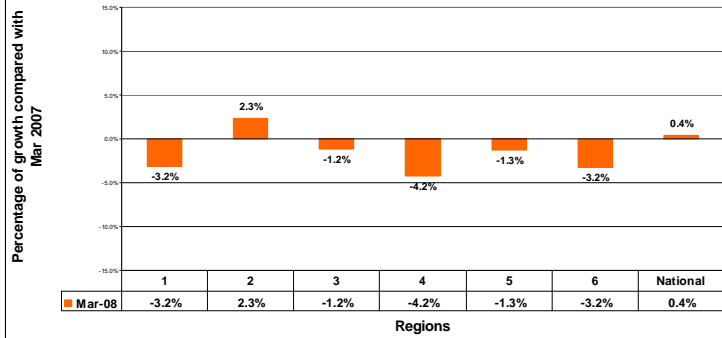
Regional Growth - Feb 2008 All Vehicles



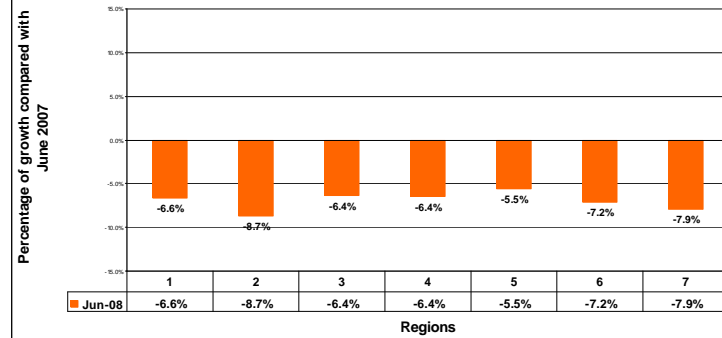
Regional Growth - May 2008 All Vehicles



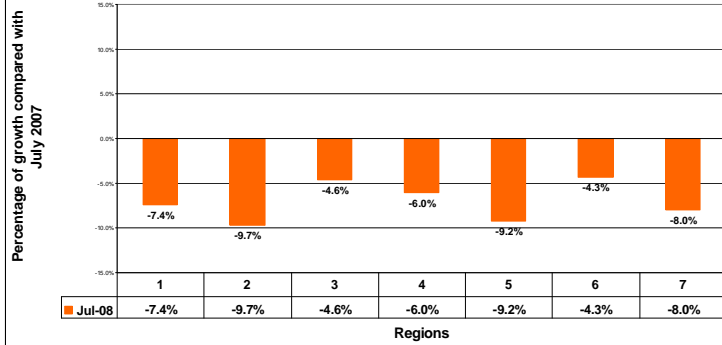
Regional Growth - Mar 2008 All Vehicles



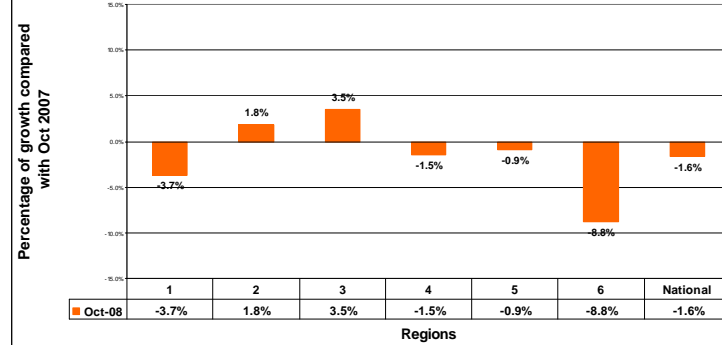
Regional Growth - June 2008 All Vehicles



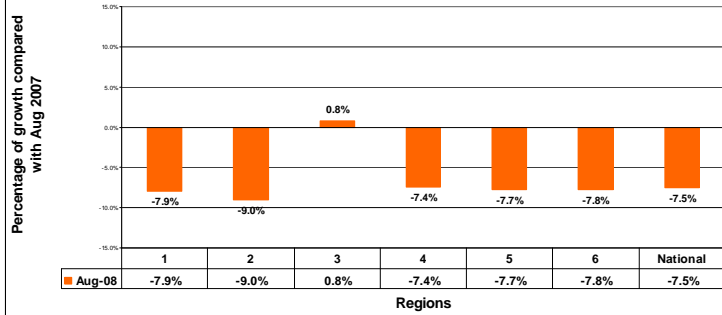
Regional Growth - July 2008 All Vehicles



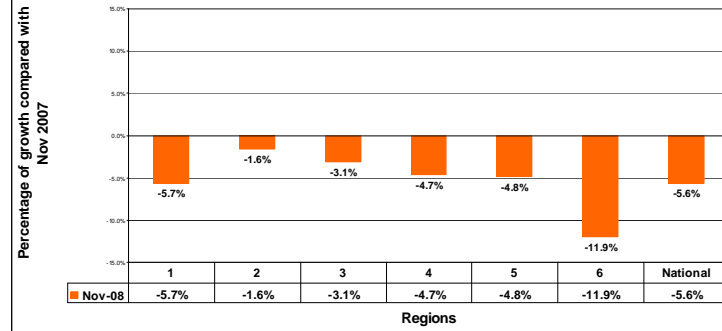
Regional Growth - Oct 2008 All Vehicles



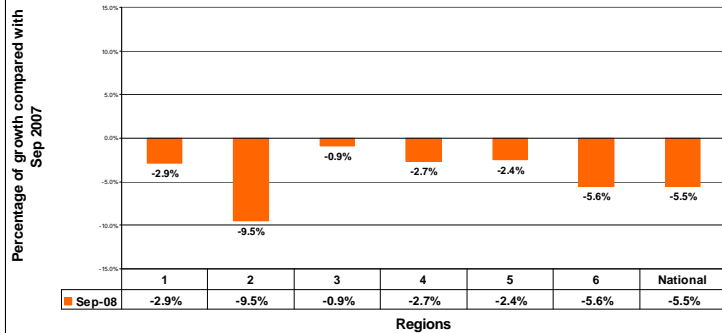
Regional Growth - Aug 2008 All Vehicles



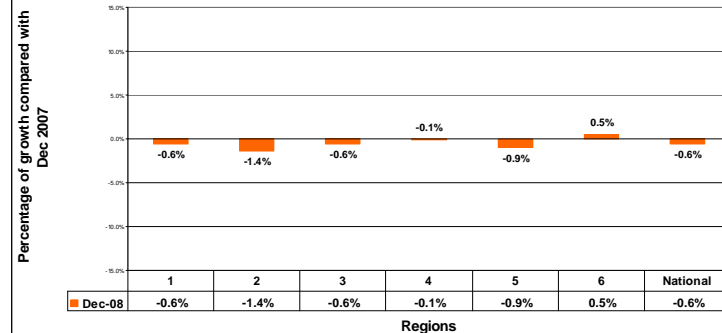
Regional Growth - Nov 2008 All Vehicles



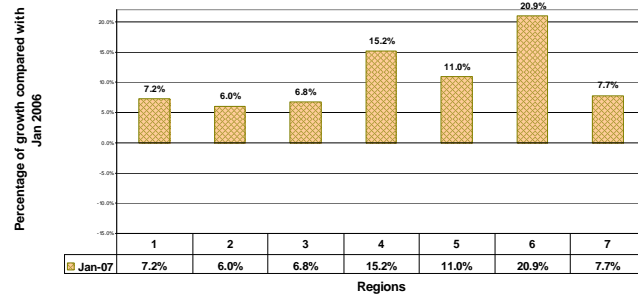
Regional Growth - Sep 2008 All Vehicles



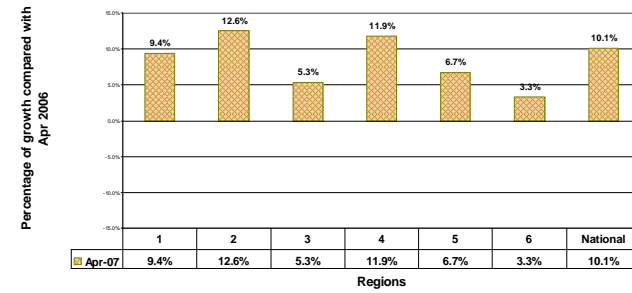
Regional Growth - Dec 2008 All Vehicles



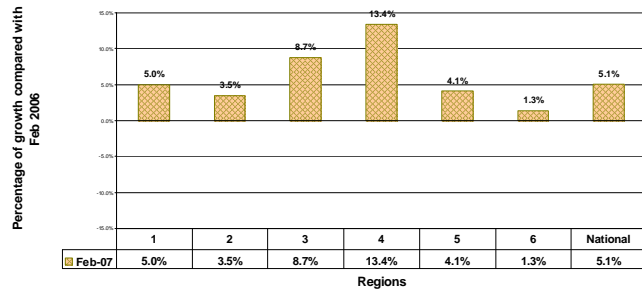
Regional Growth - Jan 2007 Heavy Vehicles



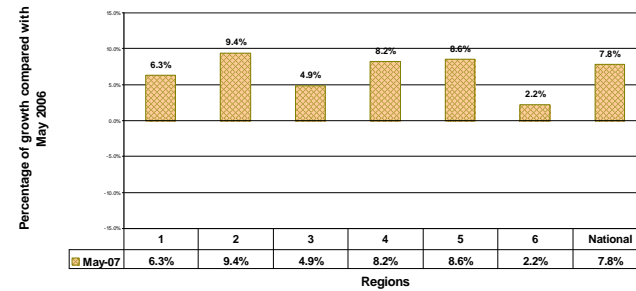
Regional Growth - Apr 2007 Heavy Vehicles



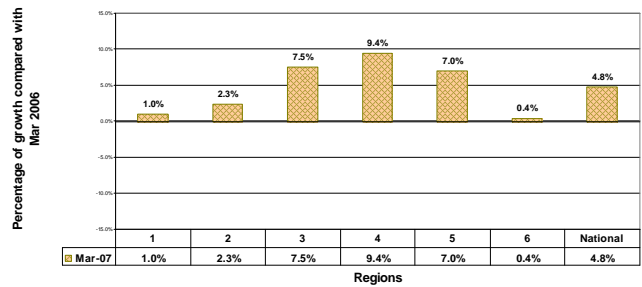
Regional Growth - Feb 2007 Heavy Vehicles



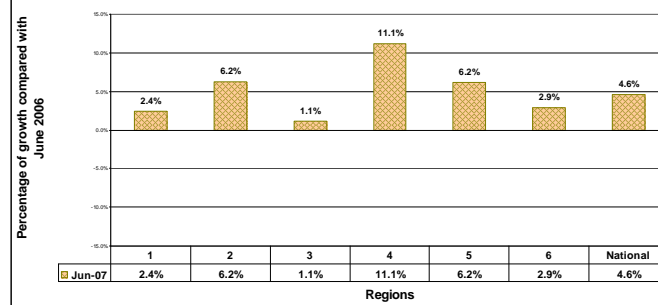
Regional Growth - May 2007 Heavy Vehicles



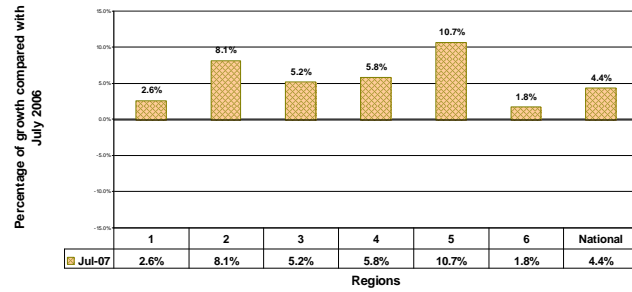
Regional Growth - Mar 2007 Heavy Vehicles



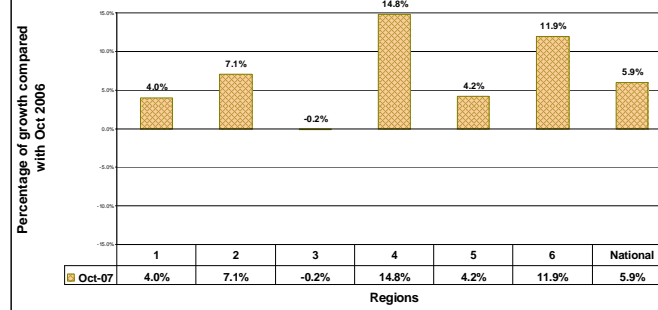
Regional Growth - June 2007 Heavy Vehicles



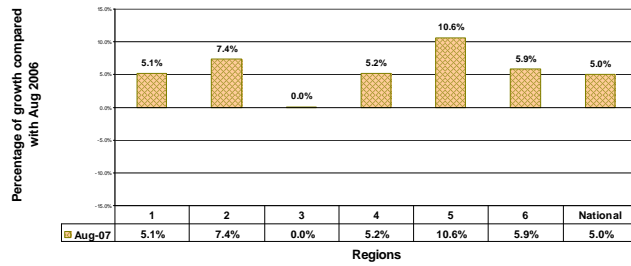
Regional Growth - July 2007 Heavy Vehicles



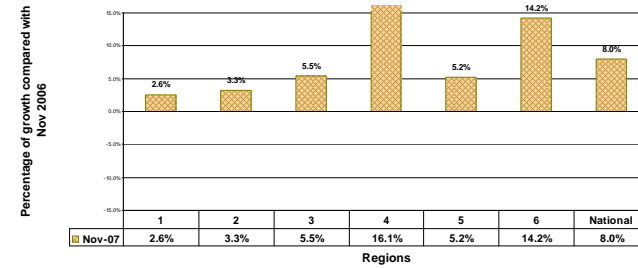
Regional Growth - Oct 2007 All Vehicles



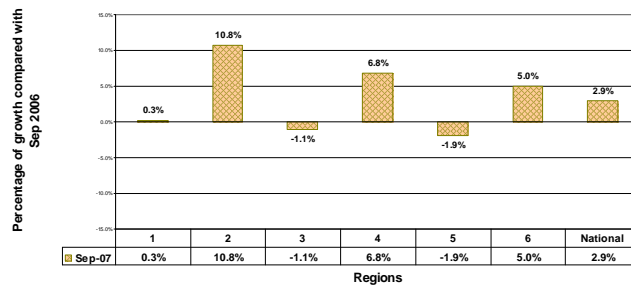
Regional Growth - Aug 2007 Heavy Vehicles



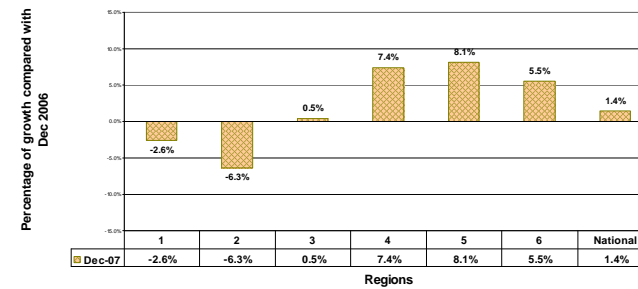
Regional Growth - Nov 2007 Heavy Vehicles



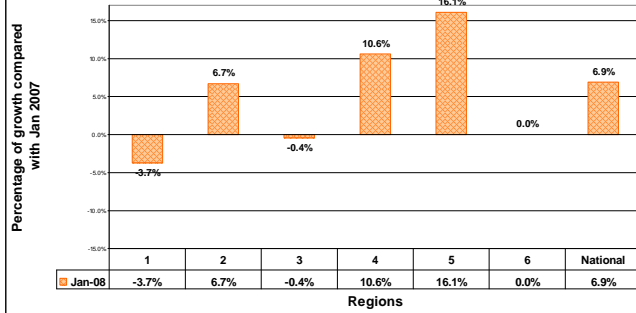
Regional Growth - Sep 2007 All Vehicles



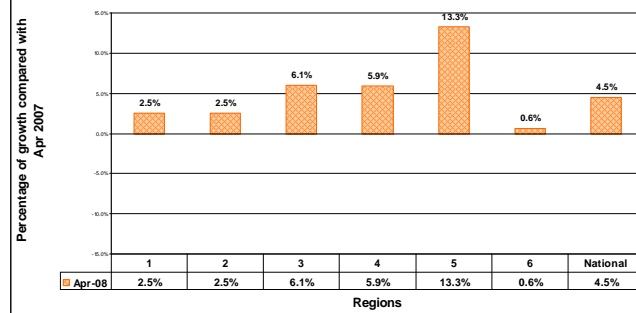
Regional Growth - Dec 2007 Heavy Vehicles



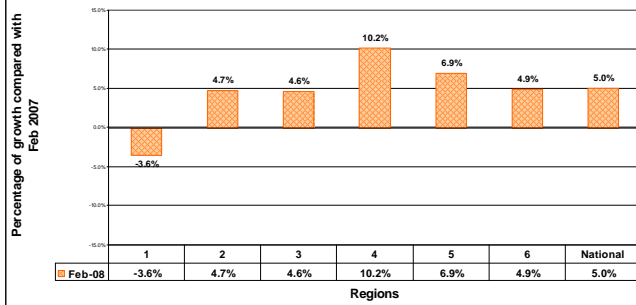
Regional Growth - Jan 2008 Heavy Vehicles



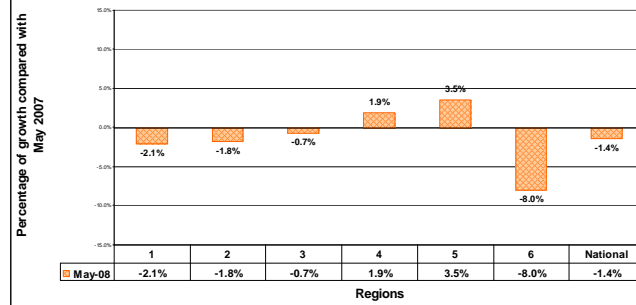
Regional Growth - Apr 2008 Heavy Vehicles



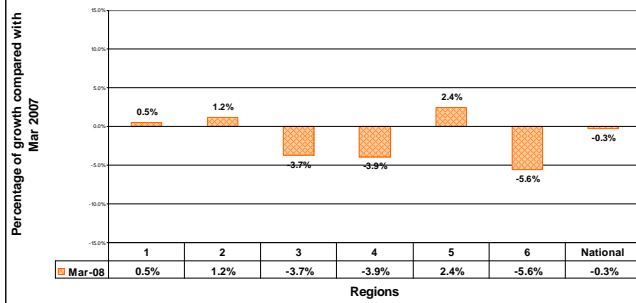
Regional Growth - Feb 2008 Heavy Vehicles



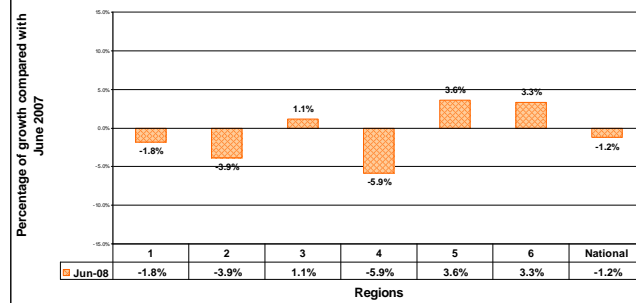
Regional Growth - May 2008 Heavy Vehicles



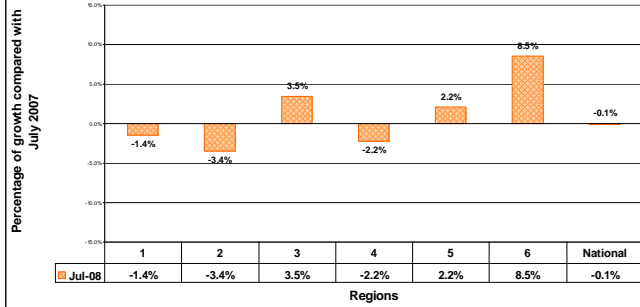
Regional Growth - Mar 2008 Heavy Vehicles



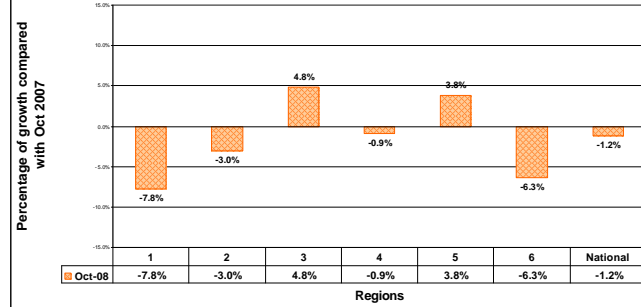
Regional Growth - June 2008 Heavy Vehicles



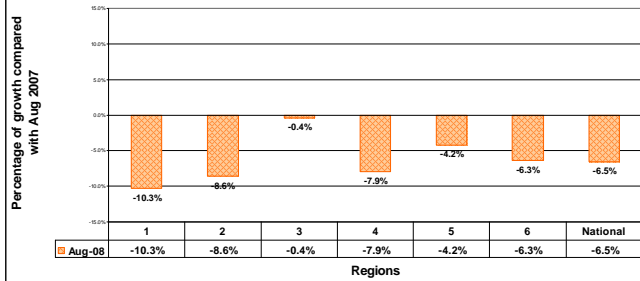
**Regional Growth - July 2008
Heavy Vehicles**



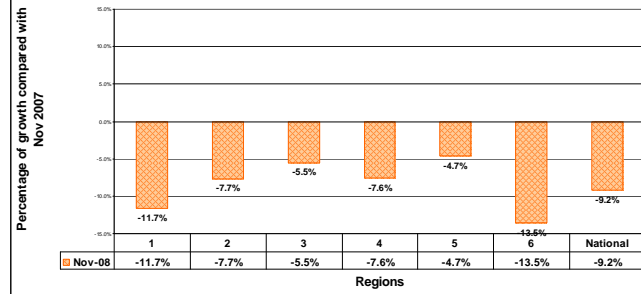
**Regional Growth - Oct 2008
Heavy Vehicles**



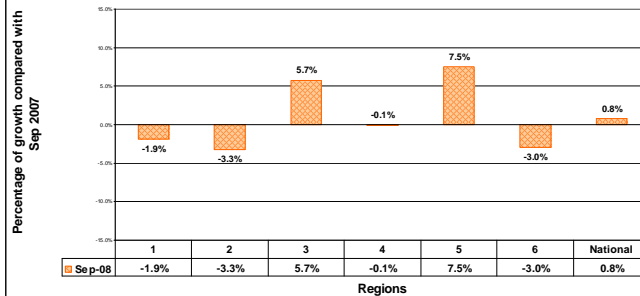
**Regional Growth - Aug 2008
Heavy Vehicles**



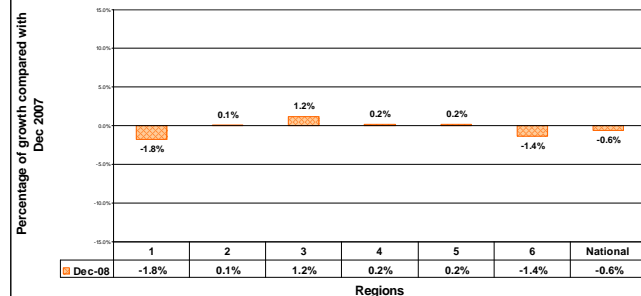
**Regional Growth - Nov 2008
Heavy Vehicles**

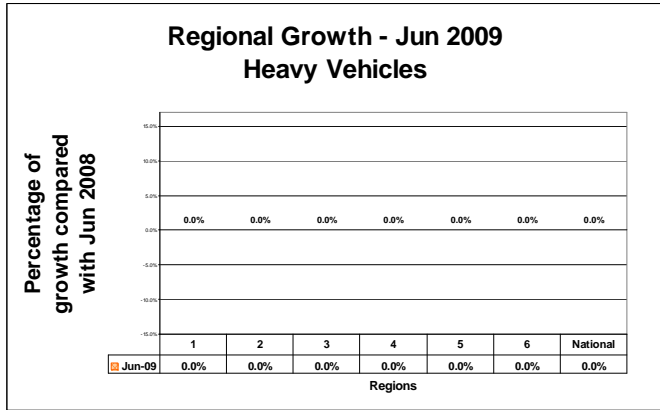
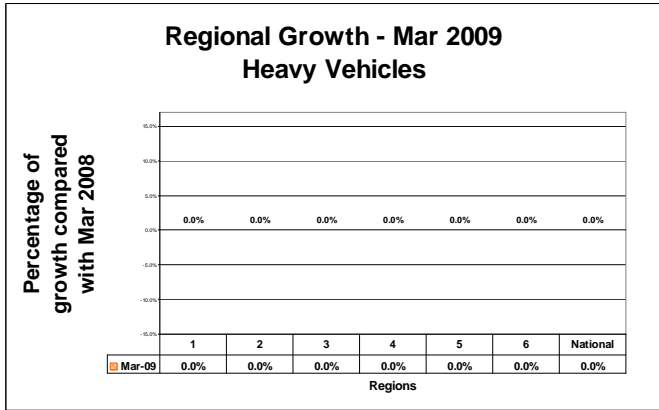
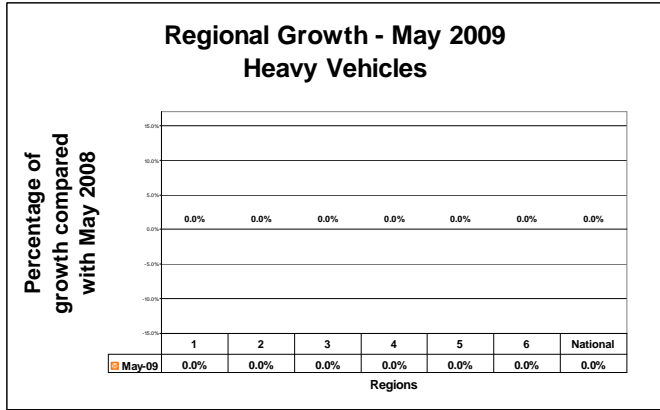
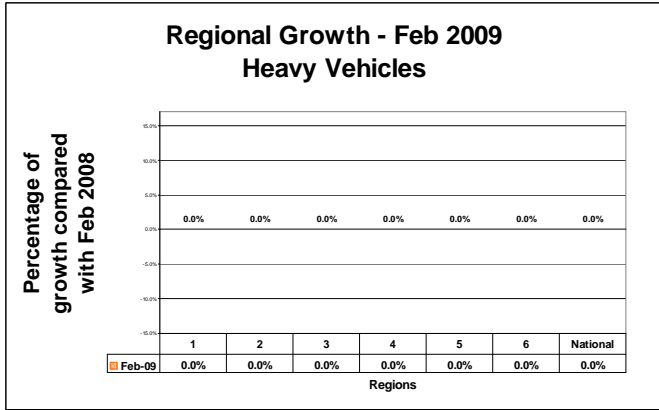
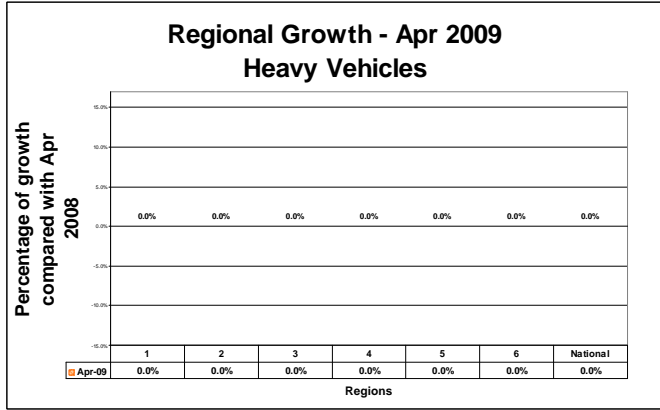
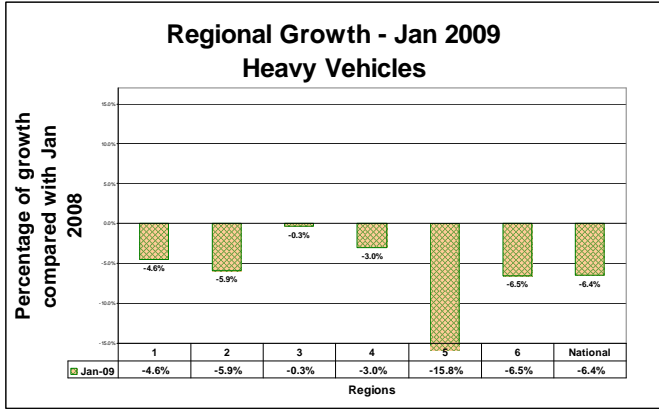


**Regional Growth - Sep 2008
Heavy Vehicles**



**Regional Growth - Dec 2008
Heavy Vehicles**





Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09
1	ID:01N00212	KAWAKAWA	7547	6782	7010	6187	5685	5090	4971	5072	5422	6039	5912	6891	7464
1	ID:01000029	Sth of Takou Bay Rd		4078	4088			3220	3036	2960		3431	3416	3744	5381
1	ID:01N00274	Nth of Maungakaramea Rd		14586	14832		13584					13620	13535		
1	ID:01200220	East of Brynderwyn Brq 161			3099		2688		2417			2651	2727	2830	
1	ID:01N00130	Nth of Ramseys Brq		1148	1188								1044		
1	ID:01N00265	Sth of Selwyn Avenue		23107	22712		22162	21364	20290	21054	21357				
1	ID:01N00388	HATFIELDS BEACH	22215	19682	19475	17775	16548	14853	14594	14826	16051	17552	17767	20581	19605
1	ID:01N10459	DRURY - SB	26985	24719	29589	28780	28175	25893	25764	25866	27270	27904	28199	30297	28681
1	ID:01N20459	DRURY - NB	29426	24810	29880	28859	27996	26540	25986	26052	27278	28175	28249	29186	30036
1	ID:01N00339	WELLSFORD	11628	10072	10323	9127	8301	7554	7433	7358		8917	8660	10436	11660
1	ID:01N10440	PANAMA Rd - SB	57317	62695	61126	61541	61538	57765	57837	58572	61851	61182	62566	61517	57398
1	ID:01N20440	PANAMA RD - NB	55191	59365	58285	58623	58086	55241	55069	55876	59171	58470	59782	57983	56151
1	ID:01N10474	BOMBAY - SB	19241	18933	17999	17802	16623	15263	15147	15249	16233	17377	17068	19788	19226
1	ID:01N20474	BOMBAY - NB	20394	18622	18466	17776	16355	15726	15188	15169	15969	17283	16986	18224	20285
1	ID:01N00424	Auckland Harbour Brq - Centre Span	77393	78441	77861	77967	75750	69070	67950	76880	80840	79165	82306	80475	73761
1	ID:01N10424	Auckland Harbour Brq - Left Clip-on	35745	40952	31304	40842	40277	38444	38016	38804	40551	41386	42359	41939	38414
1	ID:01N20424	Auckland Harbour Brq - Right Clip-on	21229	44324	41052	40202	42790	40237	38948	34592	35216	34269	35631	29794	30641
2	ID:00200002	MAUNGATAWHIRI	16631	14160	13234	12737	11773	10618	10309	10538	11282	12703	11926	14799	16390
2	ID:25A00011	NEEVESVILLE	5753	3691	4215	3049	3342	2292	2211	2451	2590	3317	3060	4462	5925
2	ID:02700011	KAIHERE	4592	4471	4407	4247	3820	3477	3455	3474	3614	4052	3734	4307	4349
2	ID:01N00526	TAUPIRI		21396	22023	20885	19901	18835	18924	18988	19725	20592	20730	21629	20987
2	ID:01N00620	LICHFIELD		10517	10005	9337	8767	7951	8101	8025	8578			9490	9475
2	ID:00300085	TE KUITI	4398	4147	4388	4034	3777	3680	3935	3929	4162	5128	3808	4342	4324
2	ID:03200074	West of Taupo	1147	803	710	766	596	538	560	595	699	750	769	856	956
2	ID:01N00580	KARAPIRO	15945	15832	15847	15045	13979	13473	12909	13065	13713	14731	14832	15751	15971
2	ID:00200091	WAIHI	9923	8105	8153	7451	9375	6284	6069	6099	6528	7361	7201	9252	9800
2	ID:01N00729	HALLETTS BAY	8780	6029	5315	5339	4640	4163	4933	4686	4986	5485	5127	6265	7050
2	ID:00200141	TE PUNA	17075	16702	16496	16033	15801	14268	13951	14140	14977	15434	15978	17171	16941
2	ID:03010149	TE NGA	18279	18899	17939	17684	17363	16177	16152	16231	17051	17259		17823	17317
2	ID:03020149	East end of Puarenga Brq (Dec)	18224	18708	17705	17544	17318	16222	16148	16200	16970	17222		17064	17418
2	ID:00200204	OHINEPANEA	5611	4997	5062	4893	4640	4230	4147	4082	4376	4787	4577	5297	5562
2	ID:03000188	LAKE ROTOMA	3698	3313	3199	3056	2869	2592	2526	2472	2659	2861	2729	3257	3615
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	5022	4370	5732	4047	3847	3372	3379	3429	3570	3909	3960	4407	4976
2	ID:00500034	TARUKENGA	5753	5823	5696	5435	4854	4545	4815	4421	4693	5196	5003	5554	5837
2	ID:02900034	KAIMAI	10139	9576	10071	9546	8825	8775	7933	8361	8431	9089	9049	10186	10167
2	ID:00500057	WAIPA	8447	8185	8255	7310	6864	6061	6386	6296	6646	7176	7110	7673	8134
3	ID:00200428	ORMOND	2738	2642	2571	2960	2235	2124	2090	2106	2178	2431	2326	2780	3278
3	ID:00200627	TANGOIO	2363	2213	2273	2038	1859	1739	1739	1687	1843	2087	2029	2348	2539
3	ID:00500230	TE POHUE	3553	3186	3432	2924	2425	2208	1907	2155	2344	2862	2684	3167	3506
3	ID:05000010	Nth of Tutaekuri River		21857	21148	20811	19184	18633	18979	23484	20339	20518	20847	21094	19958
3	ID:00300171	TONGAPORUTU Brq	2599	2224		2128	1901	1824	1796	1730	1870	2157	1999	2406	2606
3	ID:00300267	TARIKI	8281	9108	8919	8656	8620	8054	8011	7964	8270	8402	9013	8947	8121
3	ID:00300370	WAITOTARA	3646	3648	3759	3481		2893	3045	2986	3205	3421	3457	3666	3581
3	ID:04500101	OHAWA BEACH Rd	4331	4390	4269	4236	4180	3817	3870	3983	4475	4600	4879	4813	4612
3	ID:01N00930	SANSON	11150	12932	13154	12226	11327	10503	10723	10680	11135	11946	11759	12760	12776

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NZTA Region	Site Ref	Description	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09
3	ID:01N00988	OHAU	16326	16298	16174	15362	14439	13007	13290	13395	13983	15057	14789	16202	16317
3	ID:00200755	NORSEWOOD	4621	4487	4668	4130	3662	3236	3359	3213	3438	3984	3959	4515	4803
3	ID:00300489	MANAWATU GORGE	7380	7410	7475	6927	6564	6039	6054	5891	6205	6650	5999	7363	7468
3	ID:00400133	HOROPITO	2041	1913	1795	1704	1479	1605	2131	2241	2254	2092	1745	1945	2112
3	ID:00400226	UPOKONGARO	2162	2148	2162	2008	1834	1733		1752	2126	1881	1968	2125	2060
3	ID:01N00827	HIHITAHU	6086			4735			4073			4641	4843	5211	5945
4	ID:01N11068	NGAURANGA - SB	20532	23468	22172	22516	22319	21236	21396	21576	22218	22170	22502	21638	20438
4	ID:00200895	CLAREVILLE	10374				10134	9480	9241	9341	9967	10236	10680	11010	10514
4	ID:00200937	RIMUTAKA	6189	6302	6297	5570	4980	4529	4372	4387	4815	5288	5541	6021	6364
4	ID:01N01036	PUKERUA BAY	23778	24438				20451	20530	20879	21565	22925	22722	24285	23718
4	ID:01N21068	NGAURANGA - NB	20033	23255	22034	22213			21004	21379	21933	21866	22287	21579	19852
4	ID:05800009	Pauatahanui East	13239	14701	14098	13982	13852	12846	12422	12870	13298	13674	14133	14488	13432
4	ID:00210979	NGAURANGA SH2 - SB	19464	22592	21241	21938	21622	20102	20403	20529	21467	21454	21738	20802	19058
4	ID:00220979	NGAURANGA SH2 - NB	19228	22426	21059	21536			20437	20409	21291	21224	21465	20489	18741
4	ID:00600122	STOKE	22298	22127	21246	19204	19903	18737	18278	19028	19305	20042	20282	21755	21579
4	ID:00600232	MURCHISON	2670	2347	2787	1815	1445	1187	1166	1220	1369	1714	1775	2264	2736
4	ID:00600100	HIRA	4053	4011	3852	3322	3624	2666	2677	2724	2866	3118	3295	3638	4031
4	ID:06000040	Riwaka	6553	5489	4737	3764	2999	2561	2412	2538	2806	3471	3868	5468	6737
4	ID:01S00037	Blenheim	4783	4557	4473	4265	4720	3405	3431	3129	3371	3719	3900	4321	4657
5	ID:01S00389	DUNSANDEL	13057	10642	10924	10184	9311	8613	9162	8829	9457	10292	10107	10686	10636
5	ID:01S00505	EVANS St Timaru	25818	21871	20561	20930	19919	18486	19115	18981	20054	20888	21090	22330	21221
5	ID:07300064	Springfield	2035	1879	2042	1687	1275	1099	1357	1526	1527	1644	1617	1800	2005
5	ID:07400006	SEMI Obsolete - Cranford St	20075	22114	21018	21497	21278	20194	20066	20424	20810	20780	21188	21073	19310
5	ID:01S00144	KAIKOURA	3539	3195	3763	2576	2081	1883	1889	1630	1938	2356	2568	3039	3519
5	ID:01S00522	ST ANDREWS	7537	6266	6294	5977	5488	4878	5110	4865	5229	5734	5804	6316	6098
5	ID:00700108	LEWIS PASS	2210	1431	1470	1230	961	818	777	857	942	1192	1125	1471	1799
5	ID:07409005	QE II Drive East Of Main Nth Rd	17920	19359	19325	18944	18511	17870	17533	17511	18395		19211	20067	17767
5	ID:00600454	CHESTERFIELD	3145	3159	3366	2795	2447	2139	2221	2244	2502	2815	2947	3062	3174
5	ID:00700239	AHAURA				1236	1124	1041	1062	1120	1128	1235	1277	1296	1333
5	ID:00600398	PUNAKAIKI	1385	1388	1257	1002					774	964	1018	1183	1372
6	ID:00800336	ALEXANDRA	2706	2392	2317	2129	1809	1619	1730	1840	1912	2060	2013	2464	2756
6	ID:01S10713	BURNSIDE - SB	14237	16443	15456	15638	15444	14539	14906	14797	15455	15445	15906	15759	13984
6	ID:01S20713	BURNSIDE - NB	9696	11185	10533	10331	10558	9823	10183	9982	10497	10537	10786	10681	9627
6	ID:01S50713	BURNSIDE - NB On Ramp	2419	2649	2429	2383	2460	2407	2410	2401	2522	2491	2546	2497	2262
6	ID:01S60713	BURNSIDE - SB Off Ramp	2835	3264	3118	3244	3041	2857	2844	2881	3048	3051	3113	3027	2723
6	ID:01S40713	BURNSIDE - NB Off Ramp	2962	3475	3280	3634	3345	3117	3120	3168	3240	3276	3389	3326	2973
6	ID:01S40714	Burnside - NB Off Ramp	2081	2328	2168	2459	2136	2038	2000	2040	2175	2179	2220	2140	1954
6	ID:01S00765	MILTON	6430	6958	6798	6385		5023	5325	5269	5540	5978	6185	6633	6516
6	ID:01S00921	INVERCARGILL	10031	12058	11518	11528	11480	10937	10870	10974	11316	11268	11822	11826	10560
6	ID:00601147	WINTON	4427	4773	4641	4632	4536	4089	4122	4232	4384	4572	4898	4948	4509
6	ID:01S00854	GORE	4064	4513	4351	4065	3907	4151	3475	3538	3676	3952	4099	4323	4083

Telemetry Site MADT Heavy Vehicles

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1	ID:01N00212	KAWAKAWA	762	738	753	694	623	542	523	539	635	701	688	676	728
1	ID:01000029	Sth of Takou Bay Rd		318	322			264	233	220		274	289	296	382
1	ID:01N00274	Nth of Maungakaramea Rd		1473	1537		1492					1423	1479		
1	ID:01200220	East of Brynderwyn Brq 161			317		300		237			301	348	318	
1	ID:01N00130	Nth of Ramseys Brq		159	160								160		
1	ID:01N00265	Sth of Selwyn Avenue		2408	2399		2291	2206	2053	2170	2282				
1	ID:01N00388	HATFIELDS BEACH	1455	1482	1483	1431	1408	1201	1117	1099	1272	1338	1361	1467	1247
1	ID:01N10459	DRURY - SB	2193	2328	2646	2658	2616	2369	2369	2203	2468	2424	2490	2447	2278
1	ID:01N20459	DRURY - NB	2284	2297	2598	2591	2525	2303	2280	2114	2336	2315	2386	2282	2229
1	ID:01N00339	WELLSFORD	1134	1129	1087	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	1996	2187	2030	2127	2041	1894	1826	1746	1949	1959	2001	1992	1834
1	ID:01N20474	BOMBAY - NB	2036	2158	2041	2114	2059	1899	1831	1736	1900	1940	1994	1885	1884
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	2162	2188	2060	1831	1704	1497	1474	1451	1588	1633	1616	1605	1593
2	ID:25A00011	NEEVESVILLE	453	336	396	285	323	221	214	290	331	352	318	371	447
2	ID:02700011	KAIHERE	863	941	877	871	829	723	710	726	800	855	783	764	731
2	ID:01N00526	TAUPIRI		2408	2332	2249	2209	2041	2029	1967	2176	2240	2330	2145	1975
2	ID:01N00620	LICHFIELD		1677	1525	1571	1497	1310	1310	1297	1499	1565		1365	1289
2	ID:00300085	TE KUITI	710	762	711	728	710	634	632	603	666	850	682	689	636
2	ID:03200074	West of Taupo	120	98	83	99	90	73	63	70	94	94	115	111	103
2	ID:01N00580	KARAPIRO	1625	1750	1728	1887	1852	1765	1687	1778	1879	1890	1997	2127	1867
2	ID:00200091	WAIHI	871	899	867	866	1105	705	697	676	749	809	798	789	855
2	ID:01N00729	HALLETTS BAY	1150	977	836	867	844	727	736	697	766	797	839	823	821
2	ID:00200141	TE PUNA	1241	1325	1220	1306	1326	1041	1030	1016	1155	1128	1166	1099	1084
2	ID:03010149	TE NGA	890	979	937	933	905	793	817	813	894	887		890	907
2	ID:03020149	East end of Puarenga Brq (Dec)	1044	1123	1067	1002	931	796	789	798	924	929		874	941
2	ID:00200204	OHINEPANEA	701	745	706	760	741	622	602	634	708	774	745	695	693
2	ID:03000188	LAKE ROTOMA	359	381	367	324	336	300	280	289	324	348	307	324	345
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	609	632	806	598	582	485	490	506	549	565	574	529	535
2	ID:00500034	TARUKENGA	610	679	643	608	579	488	491	489	569	568	591	574	585
2	ID:02900034	KAIMAI	1255	1381	1346	1419	1330	1219	1103	1167	1238	1309	1286	1312	1199
2	ID:00500057	WAIPA	802	926	912	884	820	703	747	725	794	798	807	714	742
3	ID:00200428	ORMOND	264	308	323	345	250	231	216	206	216	233	240	245	309
3	ID:00200627	TANGOIO	352	407	402	387	358	353	351	310	344	371	372	337	377
3	ID:00500230	TE POHUE	541	573	603	608	534	475	401	434	470	500	507	458	480
3	ID:05000010	Nth of Tutaekuri River		1452	1500	1460	1334	1269	1274	1609	1419	1397	1353	1271	1231
3	ID:00300171	TONGAPORUTU Brq	433	435		411	397	350	355	344	375	399	383	384	386
3	ID:00300267	TARIKI	926	1066	965	912	916	801	843	812	945	951	989	896	834
3	ID:00300370	WAITOTARA	536	598	548	573		425	422	434	501	538	582	506	461
3	ID:04500101	OHAWBEACH Rd	464	437	403	348	297	220	236	354	561	601	596	533	490
3	ID:01N00930	SANSON	1239	1636	1573	1569	1488	1351	1331	1281	1392	1491	1560	1482	1401

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3	ID:01N00988	OHAU	1473	1672	1576	1574	1547	1401	1416	1379	1465	1535	1564	1496	1429
3	ID:00200755	NORSEWOOD	682	758	721	714	631	534	522	494	567	618	681	628	698
3	ID:00300489	MANAWATU GORGE	856	945	921	908	834	743	719	665	735	786	774	829	875
3	ID:00400133	HOROPITO	314	354	326	325	302	295	290	277	268	279	297	297	321
3	ID:00400226	UPOKONGARO	199	221	208	194	174	170		141	173	150	173	161	158
3	ID:01N00827	HIHITAHU	947			964			826			908	1043	897	897
4	ID:01N11068	NGAURANGA - SB	726	825	764	812	788	768	773	771	815	792	807	745	716
4	ID:00200895	CLAREVILLE	700				570	515	480	477	598	622	674	593	587
4	ID:00200937	RIMUTAKA	337	381	369	358	312	276	249	240	273	289	327	315	323
4	ID:01N01036	PUKERUA BAY	1528	1749				1484	1517	1448	1555	1606	1657	1528	1405
4	ID:01N21068	NGAURANGA - NB	615	718	665	694			641	652	701	719	729	693	718
4	ID:05800009	Pauatahanui East	420	509	462	460	459	398	382	380	423	429	454	449	420
4	ID:00210979	NGAURANGA SH2 - SB	693	792	694	748	745	673	706	686	729	754	738	676	640
4	ID:00220979	NGAURANGA SH2 - NB	663	765	662	679			669	662	701	721	706	655	619
4	ID:00600122	STOKE	1258	1334	1356	1300	1267	1138	1105	1149	1211	1274	1280	1194	1236
4	ID:00600232	MURCHISON	384	342	396	278	257	210	204	236	245	276	287	312	379
4	ID:00600100	HIRA	494	567	548	491	546	394	417	429	455	463	473	449	489
4	ID:06000040	Riwaka	382	382	322	275	234	161	131	159	183	237	259	328	385
4	ID:01S00037	Blenheim	611	632	636	729	755	515	496	445	522	564	599	558	583
5	ID:01S00389	DUNSANDEL	1893	1572	1522	1490	1408	1211	1256	1233	1471	1654	1587	1537	1507
5	ID:01S00505	EVANS St Timaru	1847	1697	1549	1568	1443	1187	1251	1278	1559	1613	1651	1538	1476
5	ID:07300064	Springfield	247	263	249	218	180	138	131	140	192	211	206	206	217
5	ID:07400006	SEMI Obsolete - Cranford St	640	706	616	651	611	571	556	513	427	461	456	428	411
5	ID:01S00144	KAIKOURA	531	545	634	505	477	433	417	367	430	468	500	490	508
5	ID:01S00522	ST ANDREWS	1124	1017	944	940	876	704	725	754	889	973	987	940	930
5	ID:00700108	LEWIS PASS	336	223	222	202	181	154	151	192	166	185	180	211	258
5	ID:07409005	QE II Drive East Of Main Nth Rd	558	610	630	632	550	537	525	474	569		569	600	538
5	ID:00600454	CHESTERFIELD	342	336	349	299	246	172	187	210	321	364	374	343	349
5	ID:00700239	AHAURA				215	204	179	173	203	183	201	215	175	186
5	ID:00600398	PUNAKAIKI	120	144	114	101					107	124	123	116	122
6	ID:00800336	ALEXANDRA	265	233	232	212	185	165	172	176	187	196	196	235	270
6	ID:01S10713	BURNSIDE - SB	838	882	775	698	654	717	811	789	864	873	893	852	800
6	ID:01S20713	BURNSIDE - NB	559	651	602	616	598	519	551	530	463	607	625	585	560
6	ID:01S50713	BURNSIDE - NB On Ramp	134	144	127	137	128	122	118	117	118	112	112	108	104
6	ID:01S60713	BURNSIDE - SB Off Ramp	218	241	214	233	214	199	190	197	207	199	196	187	180
6	ID:01S40713	BURNSIDE - NB Off Ramp	201	236	216	232	213	186	188	185	188	193	194	185	178
6	ID:01S40714	Burnside - NB Off Ramp	81	88	80	89	73	69	64	67	77	72	71	67	67
6	ID:01S00765	MILTON	952	1064	985	965		698	697	632	737	823	803	857	804
6	ID:01S00921	INVERCARGILL	387	458	427	455	438	414	436	412	441	410	443	454	412
6	ID:00601147	WINTON	488	498	476	477	448	342	371	419	451	500	521	501	470
6	ID:01S00854	GORE	512	550	537	507	483	442	360	387	439	490	502	502	457