



## Traffic Volumes Monthly Report November 2008

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#### Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	4/12/2008	First draft	Carol Ma	Neil Beckett	Chris Parkman
2	8/12/2008	Second draft	Carol Ma	Neil Beckett	Chris Parkman

# Overview

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## Summary

The purpose of this document is to report on the monthly traffic volume changes in November 2008. 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 November 2008, compared with November 2007, the monthly average daily traffic (MADT) for all vehicles had reduced by 5.6 percent and the MADT for heavy vehicles also had a drop of 9.2 percent. It is worth noting that a main contributor to this significant drop was a sharp rise in traffic volume observed in November 2007.

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

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# Technical Notes

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**What is MADT and AADT**

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

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

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**Purpose**

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

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**Sample coverage**

There are 86 telemetry<sup>1</sup> sites in use on the state highway network to provide this traffic data.

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

<b>NZ Transport Agency Region</b>	<b>Number of Telemetry Sites</b>
Northland and Auckland	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

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**Sources of variation in MADT**

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

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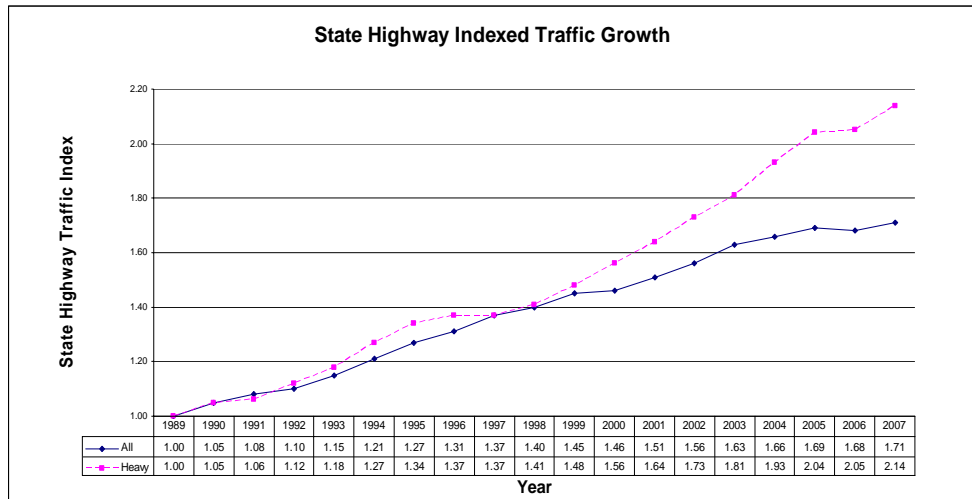
<sup>1</sup> Telemetry sites are continuously monitored 24/7.

# Key Results

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

**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.

## National growth (annual)



<sup>1</sup> Weighted average traffic across the 86 telemetry sites

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**Results:  
Monthly  
traffic at key  
sites**

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

The MADT values for November 2008, November 2007 and percentage of difference compared are reported in the table below.

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) November-07	MADT (All Vehicles) November- 08	% Change
Auckland harbour bridge (SH1)	Auckland	173817	160296	-8%
Karapiro (SH1)	Hamilton	15099	14832	-2%
Ngauranga Interchange (SH 1 and SH 2combined)	Wellington	93384	87992	-6%
Cranford Street	Christchurch	22050	21188	-4%
Burnside (SH1)	Dunedin	30262	26692	-12%

Overall the MADT values decreased in November when compared to the same period in the previous year with Dunedin showing the largest drop of 12 percent.

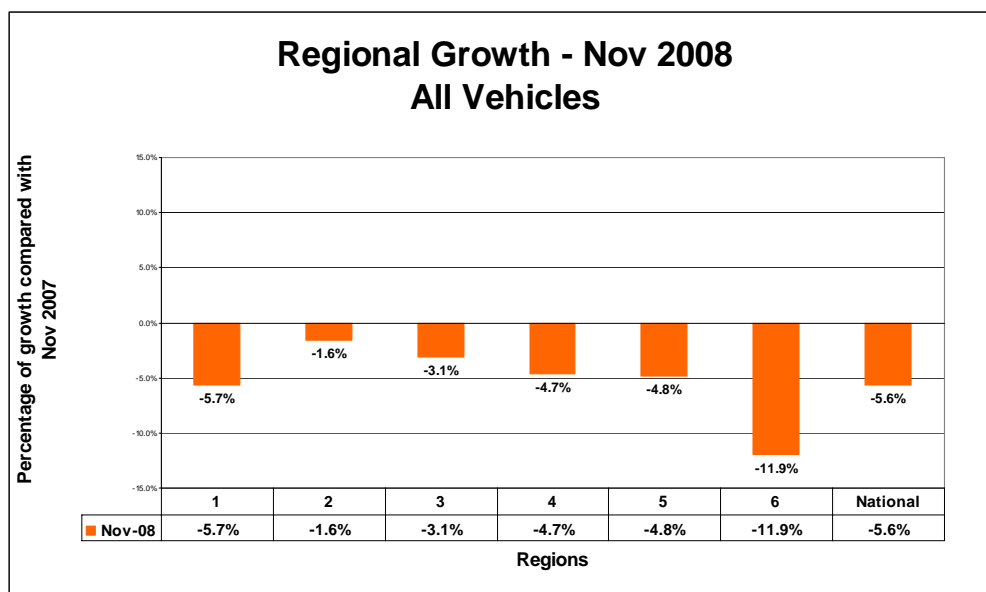
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## Results: All Vehicles

### 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 2007. The MADT values here represent all vehicle types. It can be observed that all regions had decreases in MADT with Otago and Southland having the largest downward contribution of 11.9% for this period. Nationally, the MADT in November 2008 for all vehicles dropped 5.6% compared with November 2007. The high traffic volume in November 2007 played a significant role in the decrease observed from 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

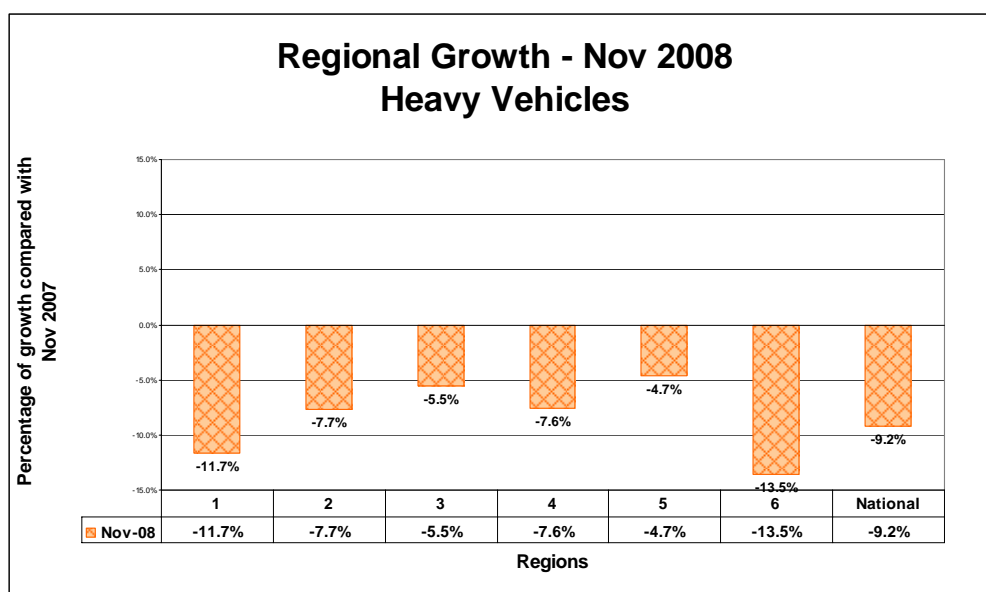
A table of MADT (all vehicles) values for all national telemetry sites is attached to this report.

# Results: Heavy Vehicles

## Regions

Comparisons across the NZ Transport Agency regions have also been carried out, focusing on heavy vehicles<sup>1</sup>.

The diagram below shows the percentage of difference compared with the same period in 2007. 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 13.5% in Region 6. Nationally, the MADT in November 2008 for heavy vehicles decreased 9.2% compared with November 2007. The high traffic volume of heavy vehicles observed in November 2007 largely 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 2008 is attached to this report.

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



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## **Appendices**

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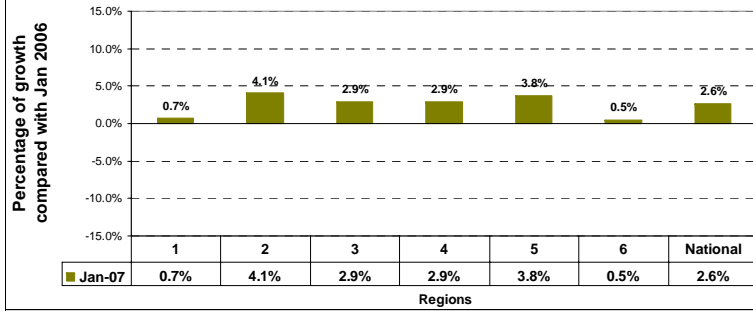
### **Current and Previous Years Growth Graphs**

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

### **Telemetry Site MADT's for 2008**

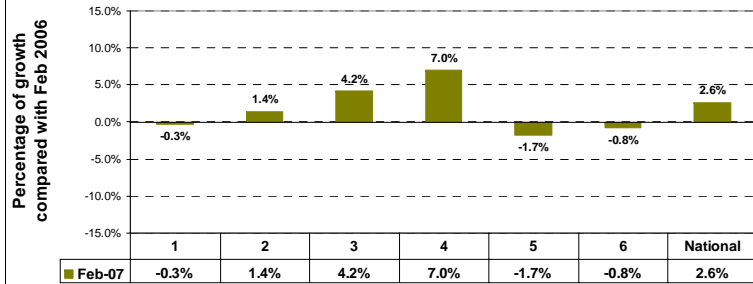
- **All Vehicles**
- **Heavy Vehicles**

### Regional Growth - Jan 2007 All Vehicles



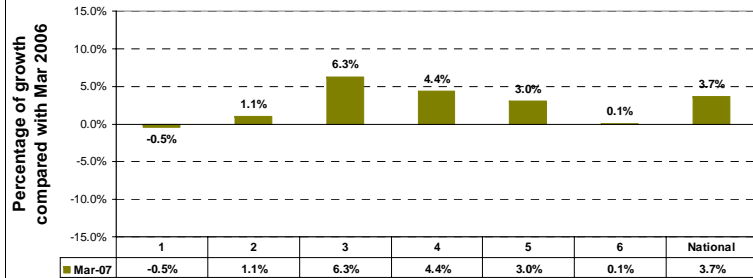
Regions

### Regional Growth - Feb 2007 All Vehicles



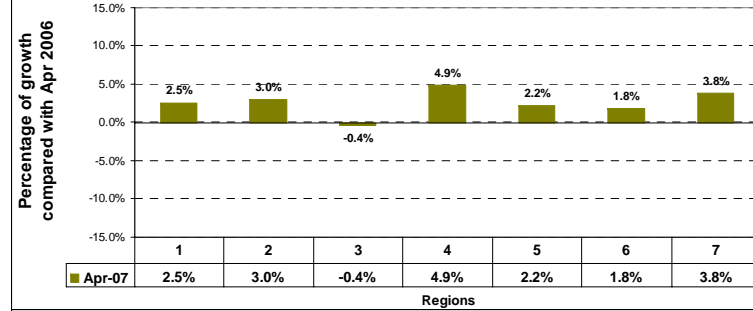
Regions

### Regional Growth - Mar 2007 All Vehicles



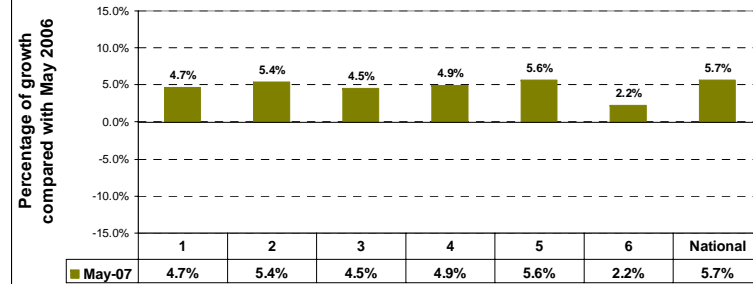
Regions

### Regional Growth - Apr 2007 All Vehicles



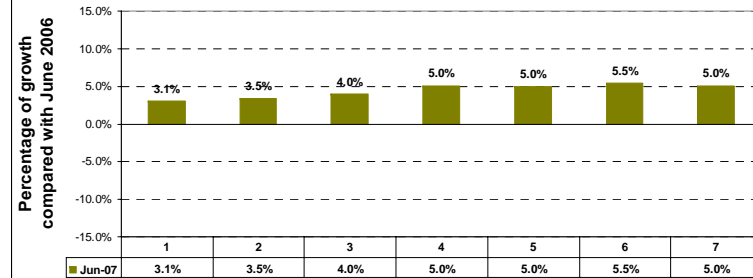
Regions

### Regional Growth - May 2007 All Vehicles

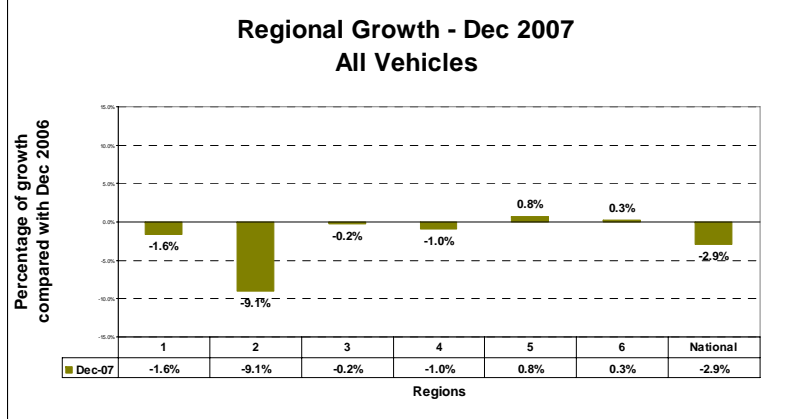
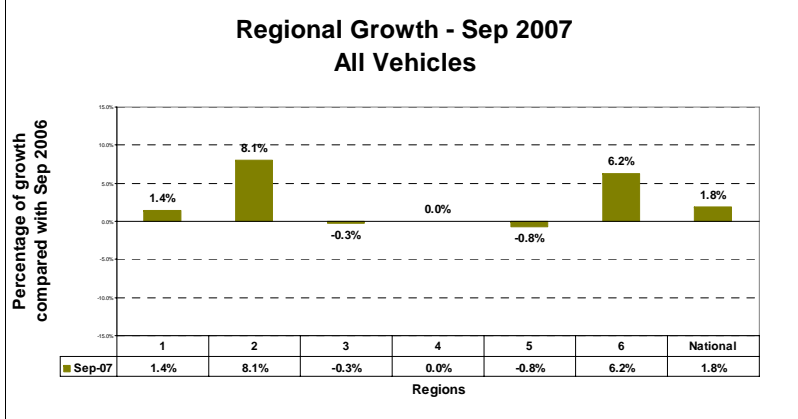
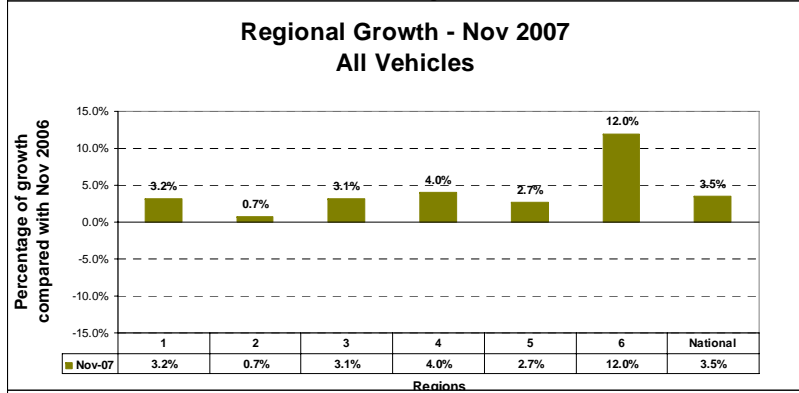
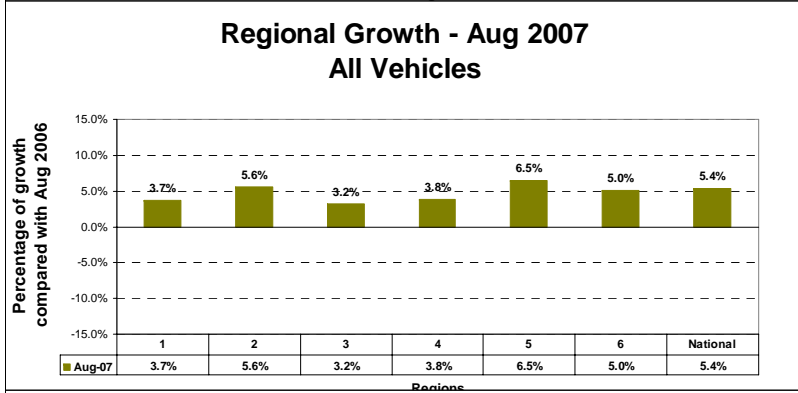
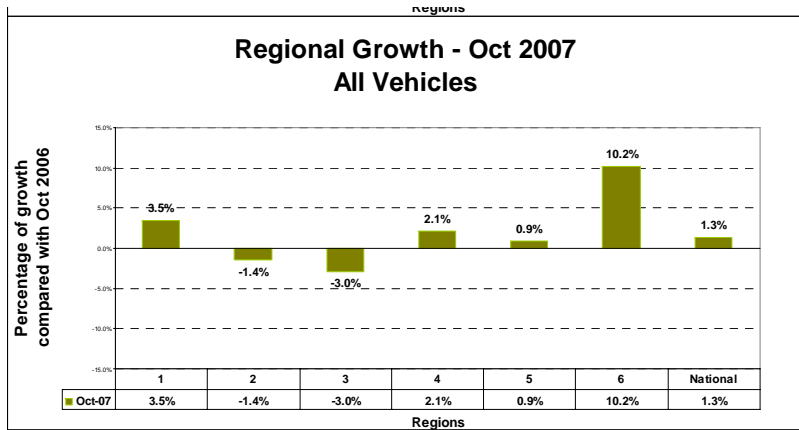
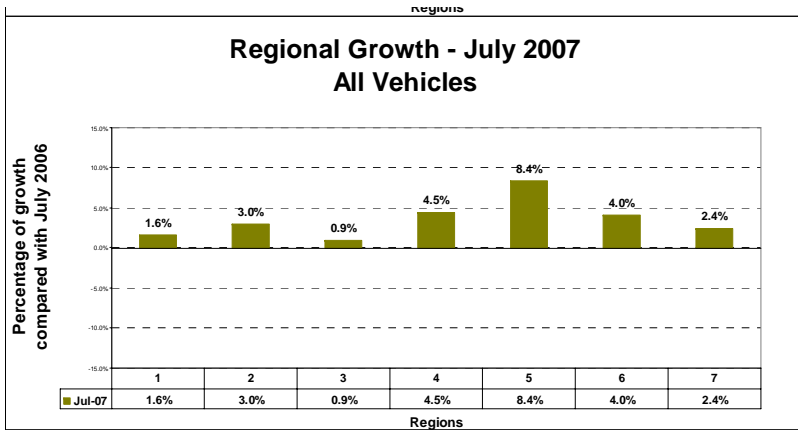


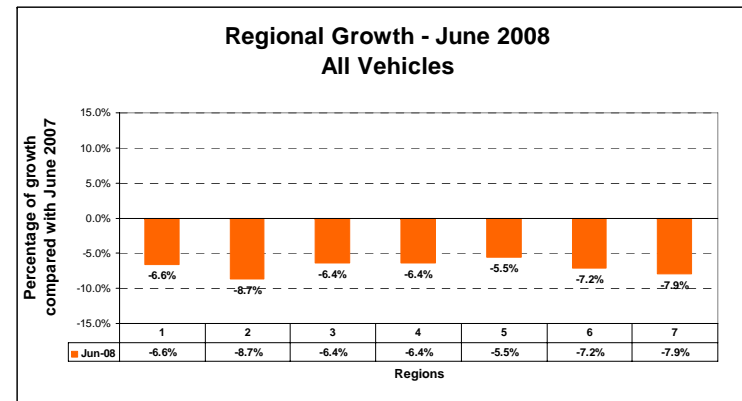
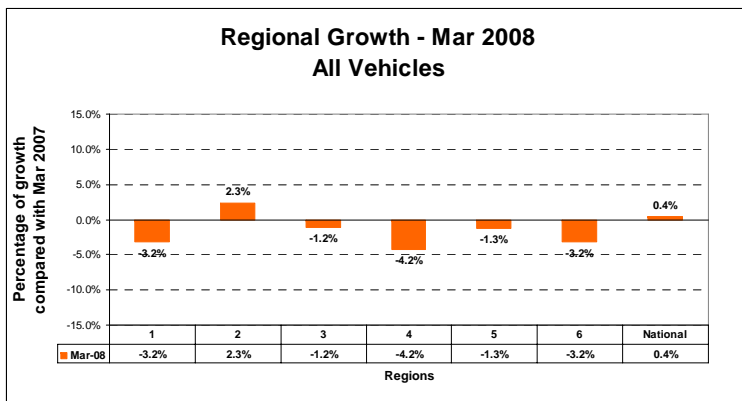
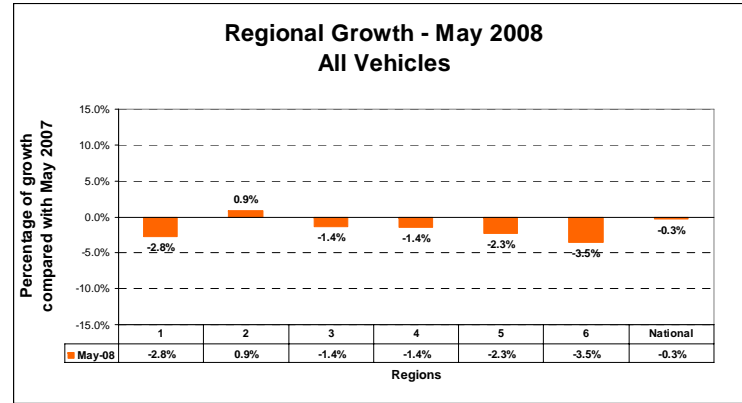
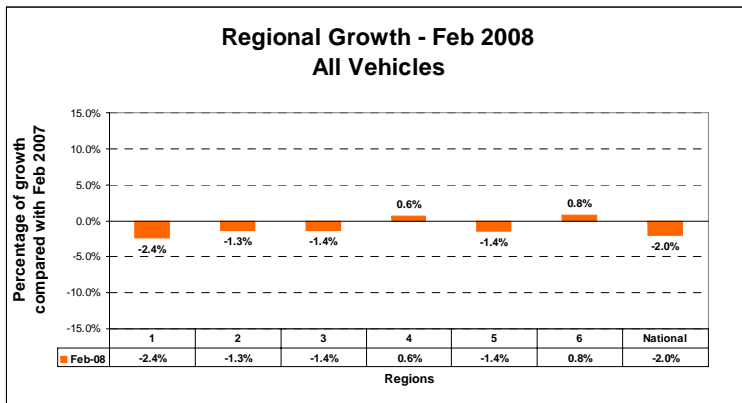
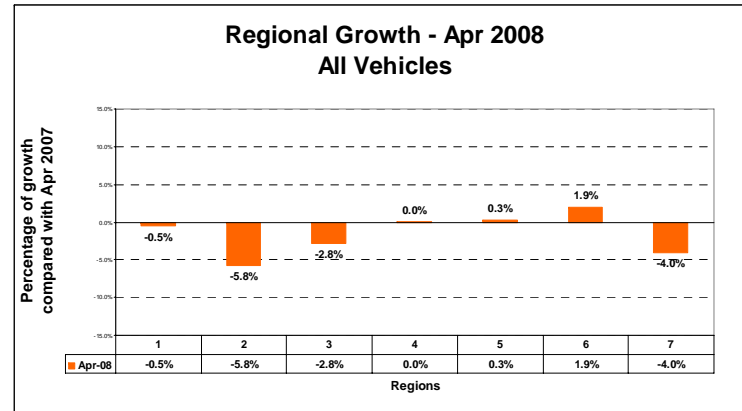
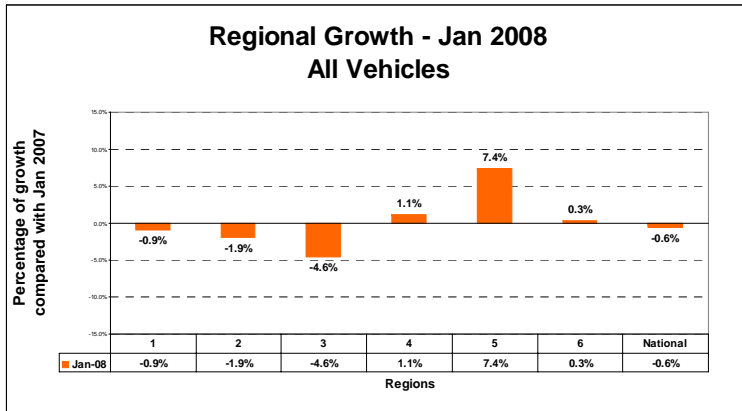
Regions

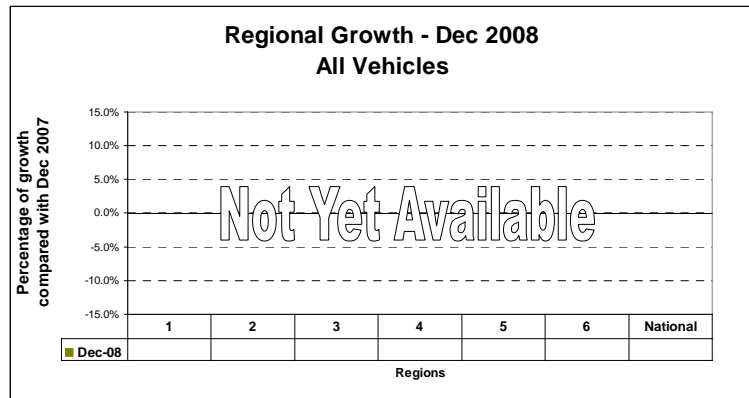
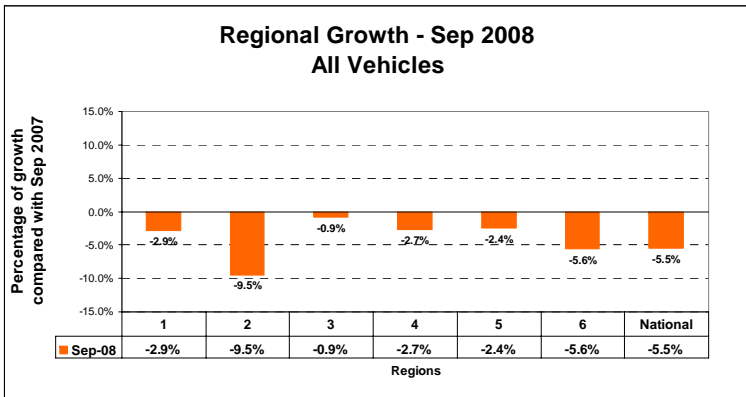
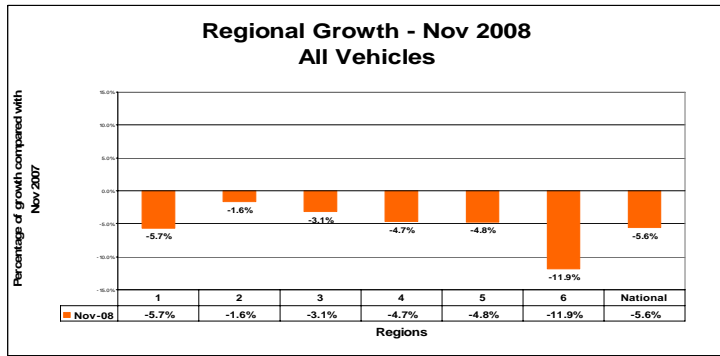
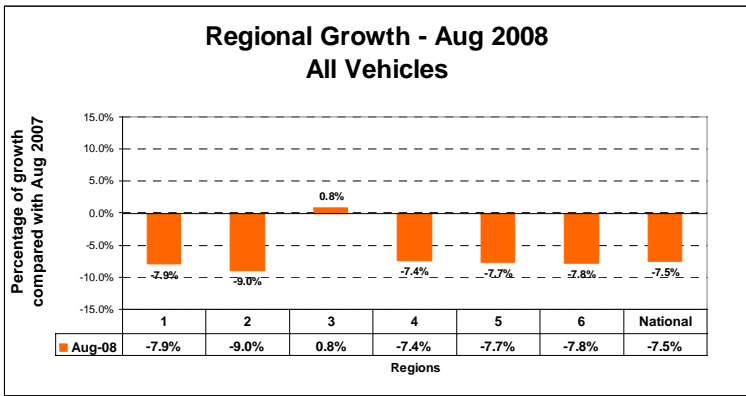
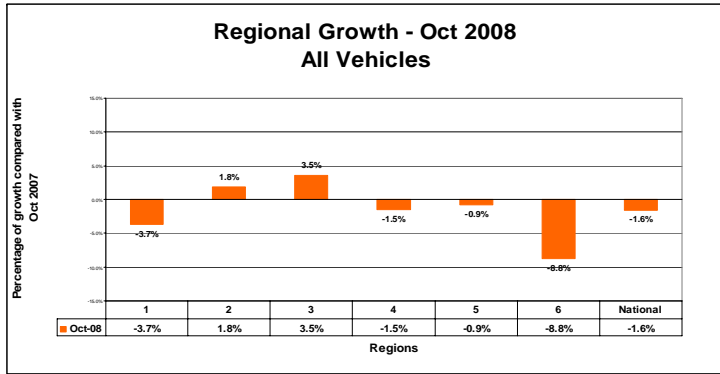
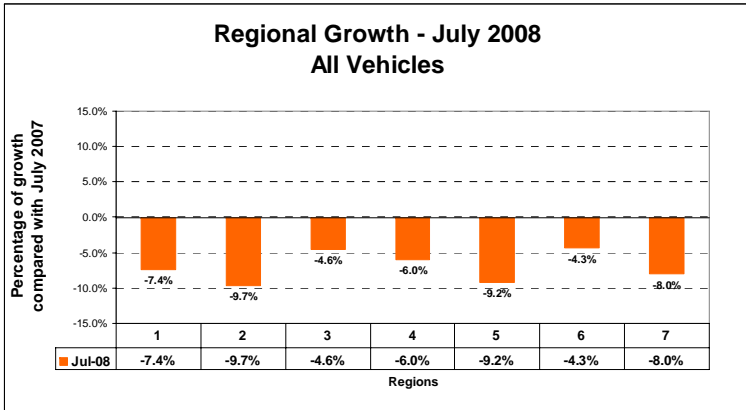
### Regional Growth - June 2007 All Vehicles



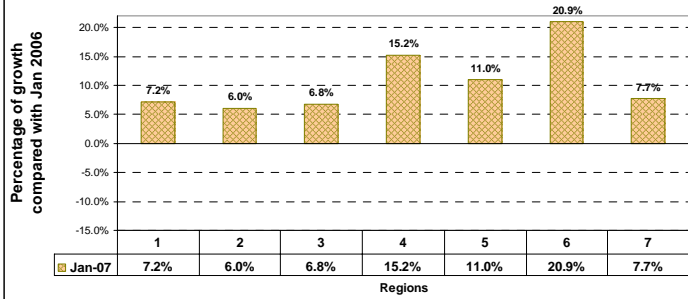
Regions



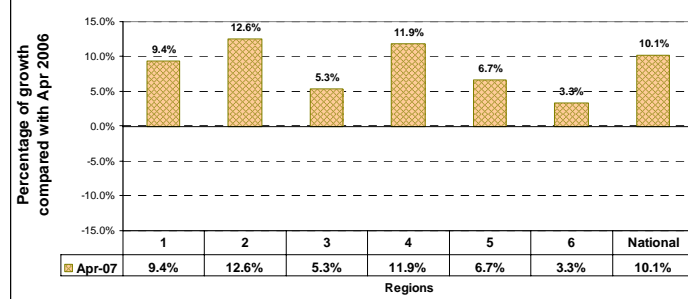




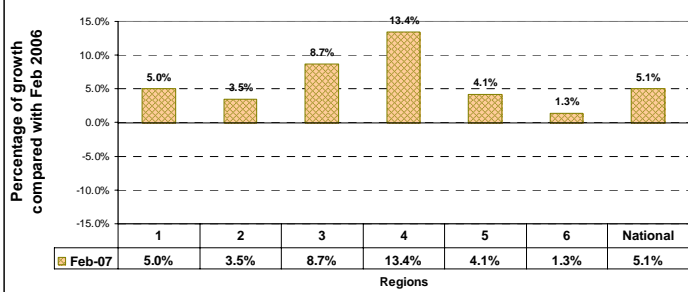
**Regional Growth - Jan 2007  
Heavy Vehicles**



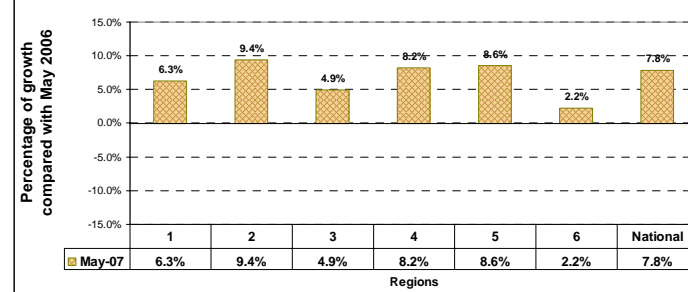
**Regional Growth - Apr 2007  
Heavy Vehicles**



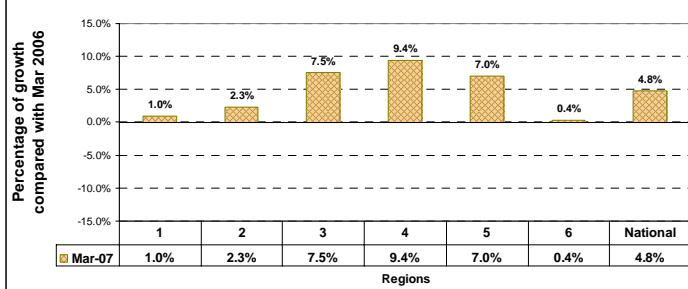
**Regional Growth - Feb 2007  
Heavy Vehicles**



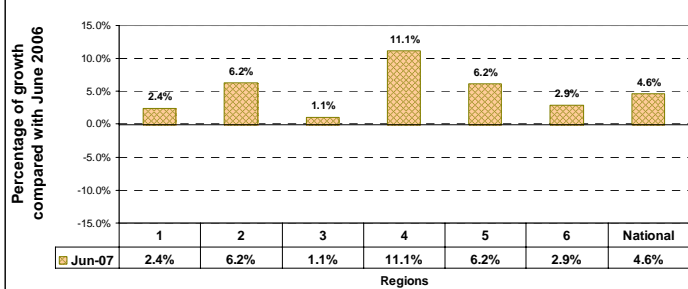
**Regional Growth - May 2007  
Heavy Vehicles**



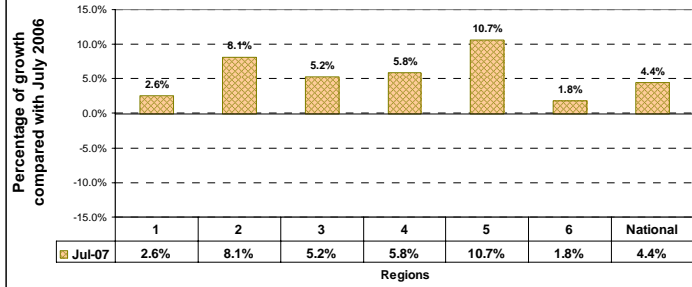
**Regional Growth - Mar 2007  
Heavy Vehicles**



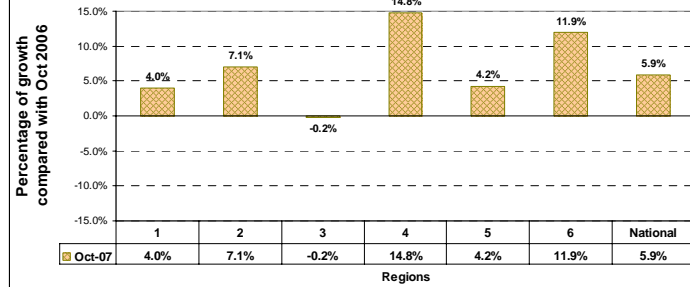
**Regional Growth - June 2007  
Heavy Vehicles**



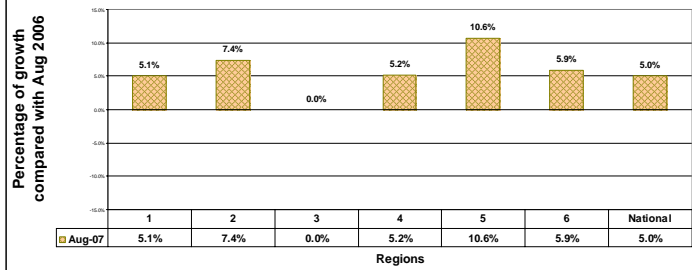
**Regional Growth - July 2007  
Heavy Vehicles**



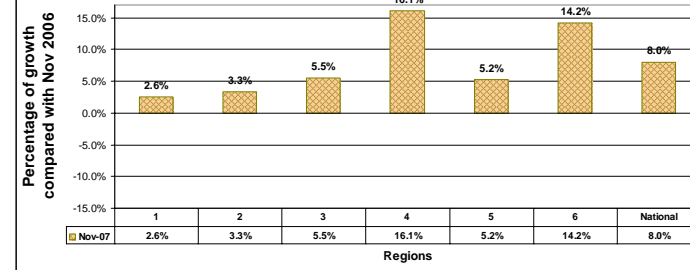
**Regional Growth - Oct 2007  
Heavy Vehicles**



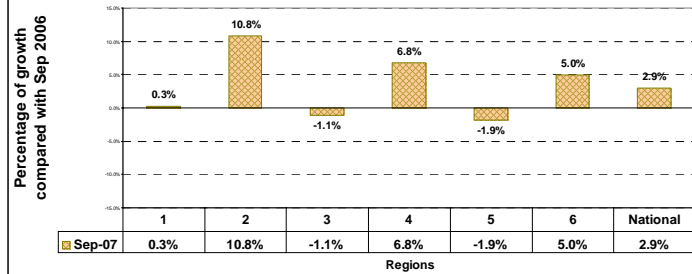
**Regional Growth - Aug 2007  
Heavy Vehicles**



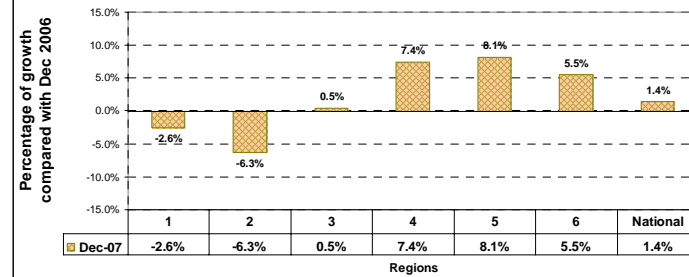
**Regional Growth - Nov 2007  
Heavy Vehicles**

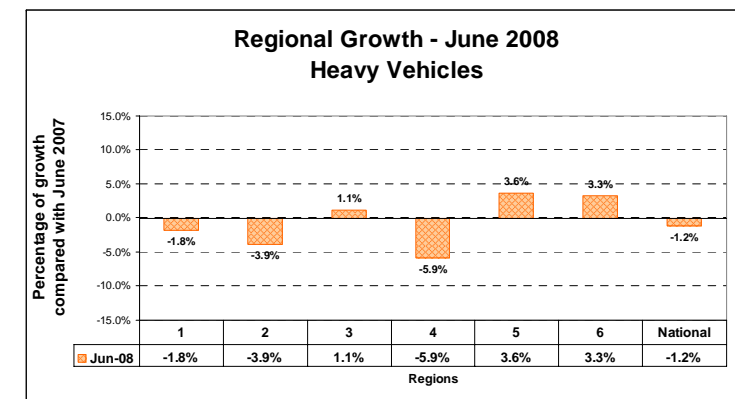
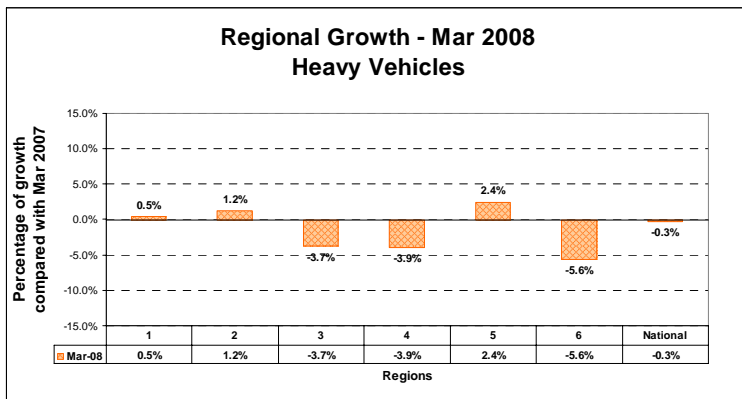
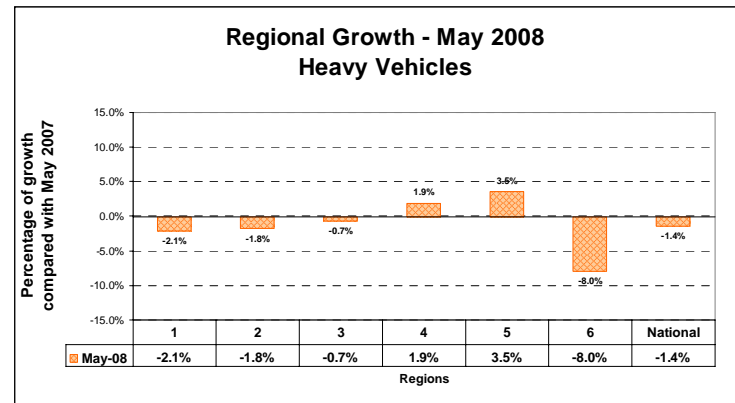
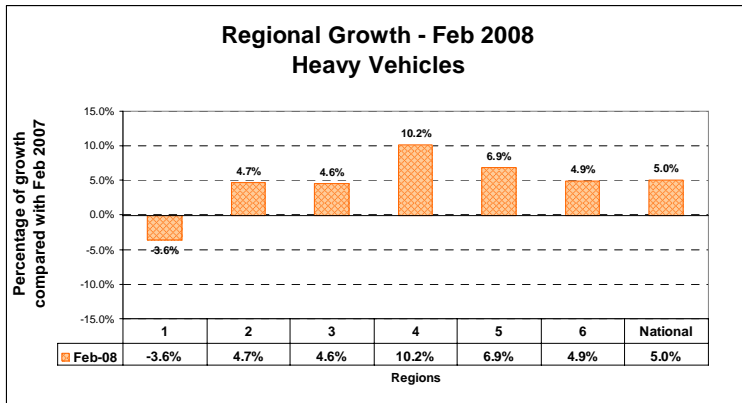
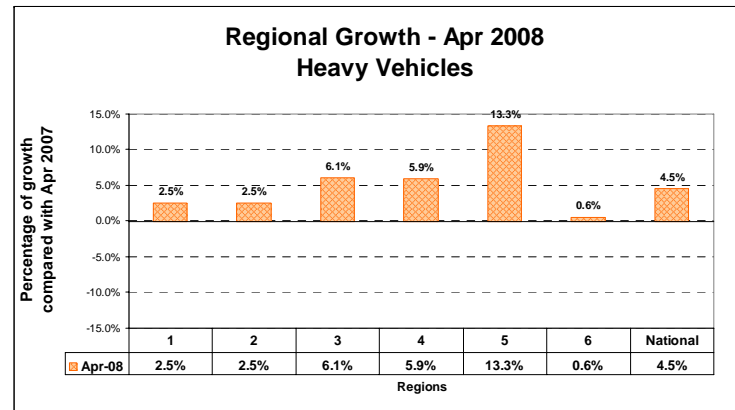
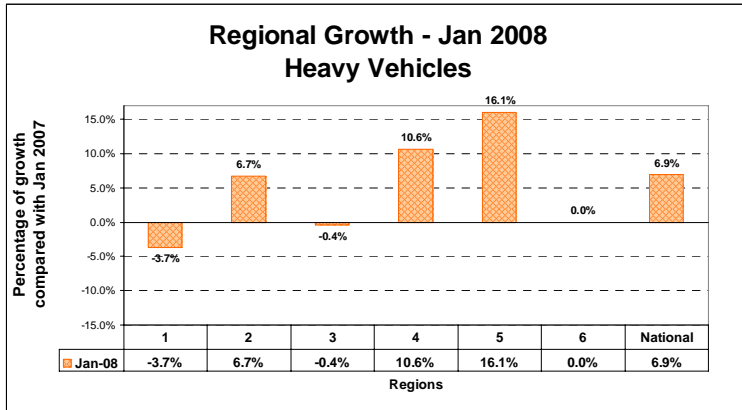


**Regional Growth - Sep 2007  
Heavy Vehicles**

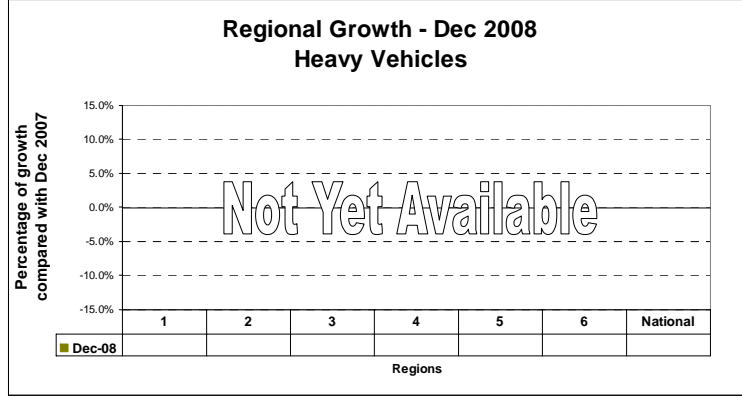
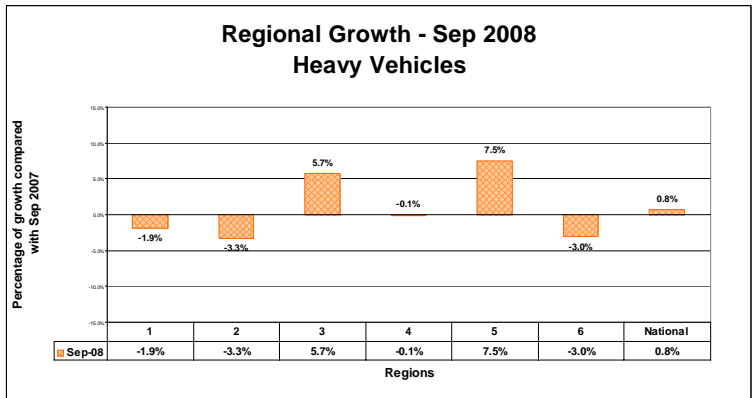
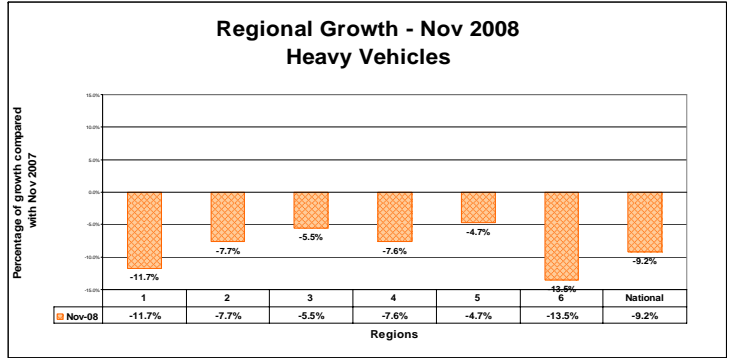
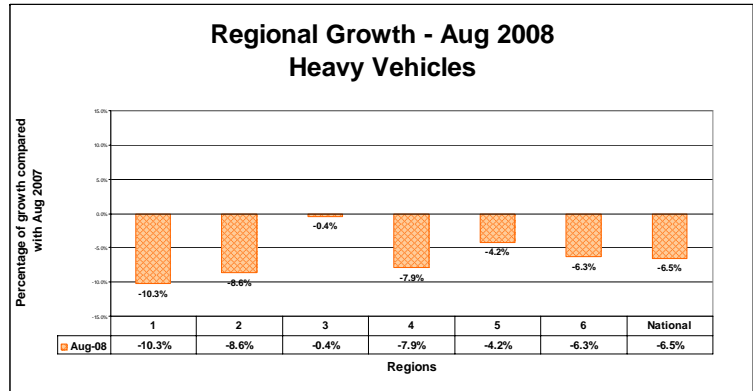
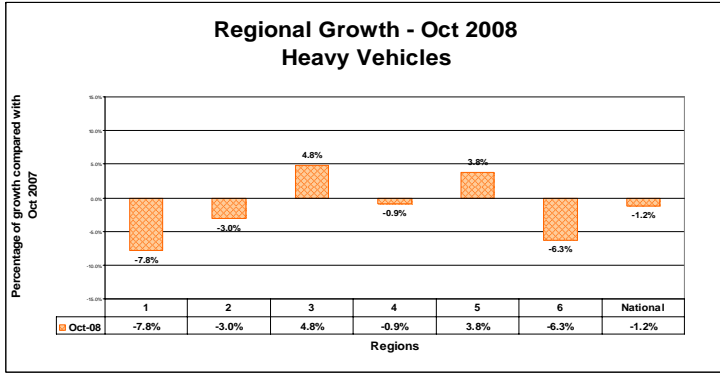
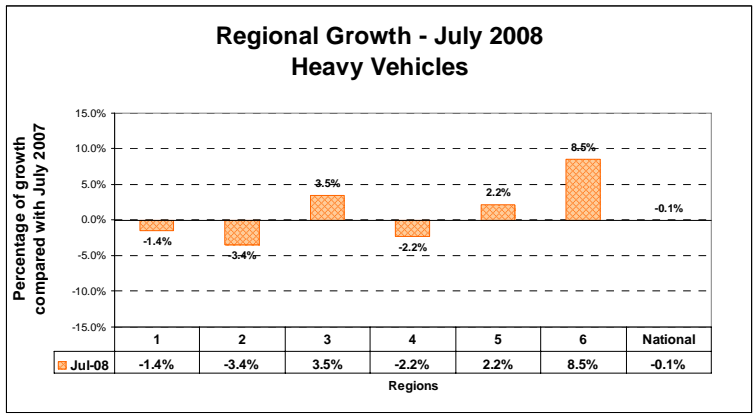


**Regional Growth - Dec 2007  
Heavy Vehicles**









## Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08
1	ID:01N00212	KAWAKAWA	6533	7121	7547	6782	7010	6187	5685	5090	4971	5072	5422	6039	5912
1	ID:01000029	Sth of Takou Bay Rd	3816			4078	4088			3220	3036	2960		3431	3416
1	ID:01N00274	Nth of Maungakaramea Rd	14332			14586	14832		13584					13620	13535
1	ID:01200220	East of Brynderwyn Brg 161	2926				3099		2688		2417			2651	2727
1	ID:01N00130	Nth of Ramseys Brg	1089			1148	1188								1044
1	ID:01N00265	Sth of Selwyn Avenue	23669			23107	22712		22162	21364	20290	21054	21357		
1	ID:01N00388	HATFIELDS BEACH	18730	20247	22215	19682	19475	17775	16548	14853	14594	14826	16051	17552	17767
1	ID:01N10459	DRURY - SB	29716	30387	26985	24719	29589	28780	28175	25893	25764	25866	27270	27904	28199
1	ID:01N20459	DRURY - NB	29865	29213	29426	24810	29880	28859	27996	26540	25986	26052	27278	28175	28249
1	ID:01N00339	WELLSFORD	9291	9703	11628	10072	10323	9127	8301	7554	7433	7358		8917	8660
1	ID:01N10440	PANAMA Rd - SB	65136	60342	57317	62695	61126	61541	61538	57765	57837	58572	61851	61182	62566
1	ID:01N20440	PANAMA RD - NB	62368	57649	55191	59365	58285	58623	58086	55241	55069	55876	59171	58470	59782
1	ID:01N10474	BOMBAY - SB	18057	20017	19241	18933	17999	17802	16623	15263	15147	15249	16233	17377	17068
1	ID:01N20474	BOMBAY - NB	17812	18547	20394	18622	18466	17776	16355	15726	15188	15169	15969	17283	16986
1	ID:01N00424	Auckland Harbour Brg - Centre Span	85078	81809	77393	78441	77861	77967	75750	69070	67950	76880	80840	79165	82306
1	ID:01N10424	Auckland Harbour Brg - Left Clip-on	42666	40176	35745	40952	31304	40842	40277	38444	38016	38804	40551	41386	42359
1	ID:01N20424	Auckland Harbour Brg - Right Clip-on	46073	35673	21229	44324	41052	40202	42790	40237	38948	34592	35216	34269	35631
2	ID:00200002	MAUNGATAWHIRI	7946	14509	16631	14160	13234	12737	11773	10618	10309	10538	11282	12703	11926
2	ID:25A00011	NEEVESVILLE	3151	4481	5753	3691	4215	3049	3342	2292	2211	2451	2590	3317	3060
2	ID:02700011	KAIHERE	4379	5070	4592	4471	4407	4247	3820	3477	3455	3474	3614	4052	3734
2	ID:01N00526	TAUPIRI	21292			21396	22023	20885	19901	18835	18924	18988	19725	20592	20730
2	ID:01N00620	LICHFIELD	9597	9443		10517	10005	9337	8767	7951	8101	8025	8578		
2	ID:00300085	TE KUITI	3995	4411	4398	4147	4388	4034	3777	3680	3935	3929	4162	5128	3808
2	ID:03200074	West of Taupo	653	829	1147	803	710	766	596	538	560	595	699	750	769
2	ID:01N00580	KARAPIRO	15099	15756	15945	15832	15847	15045	13979	13473	12909	13065	13713	14731	14832
2	ID:00200091	WAIHI	7637	8867	9923	8105	8153	7451	9375	6284	6069	6099	6528	7361	7201
2	ID:01N00729	HALLETT'S BAY	6947	6338	8780	6029	5315	5339	4640	4163	4933	4686	4986	5485	5127
2	ID:00200141	TE PUNA	17891	17298	17075	16702	16496	16033	15801	14268	13951	14140	14977	15434	15978
2	ID:03010149	TE NGA	19242	18707	18279	18899	17939	17684	17363	16177	16152	16231	17051	17259	
2	ID:03020149	East end of Puarenga Brg (Dec)	19038	18216	18224	18708	17705	17544	17318	16222	16148	16200	16970	17222	
2	ID:00200204	OHINEPANEA	6453	5438	5611	4997	5062	4893	4640	4230	4147	4082	4376	4787	4577
2	ID:03000188	LAKE ROTOMA	3166	3444	3698	3313	3199	3056	2869	2592	2526	2472	2659	2861	2729
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	4204		5022	4370	5732	4047	3847	3372	3379	3429	3570	3909	3960
2	ID:00500034	TARUKENGA	5321	5604	5753	5823	5696	5435	4854	4545	4815	4421	4693	5196	5003
2	ID:02900034	KAIMAI	9405	10141	10139	9576	10071	9546	8825	8775	7933	8361	8431	9089	9049
2	ID:00500057	WAIPA	7518	7823	8447	8185	8255	7310	6864	6061	6386	6296	6646	7176	7110
3	ID:00200428	ORMOND	2540	2743	2738	2642	2571	2960	2235	2124	2090	2106	2178	2431	2326
3	ID:00200627	TANGOIO	2081	2348	2363	2213	2273	2038	1859	1739	1739	1687	1843	2087	2029
3	ID:00500230	TE POHUE	2728	3267	3553	3186	3432	2924	2425	2208	1907	2155	2344	2862	2684
3	ID:05000010	Nth of Tutaekuri River	21111	20652		21857	21148	20811	19184	18633	18979	23484	20339	20518	20847
3	ID:00300171	TONGAPORUTU Brg	2063	2433	2599	2224		2128	1901	1824	1796	1730	1870	2157	1999

## Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08
3	ID:00300267	TARIKI	9199	9080	8281	9108	8919	8656	8620	8054	8011	7964	8270	8402	9013
3	ID:00300370	WAITOTARA	3565	3763	3646	3648	3759	3481		2893	3045	2986	3205	3421	3457
3	ID:04500101	OHAWA BEACH Rd	4639	4437	4331	4390	4269	4236	4180	3817	3870	3983	4475	4600	4879
3	ID:01N00930	SANSON	12312	13208	11150	12932	13154	12226	11327	10503	10723	10680	11135	11946	11759
3	ID:01N00988	OHAU	15519	16454	16326	16298	16174	15362	14439	13007	13290	13395	13983	15057	14789
3	ID:00200755	NORSEWOOD	4062	4616	4621	4487	4668	4130	3662	3236	3359	3213	3438	3984	3959
3	ID:00300489	MANAWATU GORGE	7073	7528	7380	7410	7475	6927	6564	6039	6054	5891	6205	6650	5999
3	ID:00400133	HOROPITO	1674	1966	2041	1913	1795	1704	1479	1605	2131	2241	2254	2092	1745
3	ID:00400226	UPOKONGARO	2065	2285	2162	2148	2162	2008	1834	1733		1752	2126	1881	1968
3	ID:01N00827	HIHITAH			6086			4735			4073			4641	4843
4	ID:01N11068	NGAURANGA - SB	23751	21773	20532	23468	22172	22516	22319	21236	21396	21576	22218	22170	22502
4	ID:00200895	CLAREVILLE	11183	11139	10374				10134	9480	9241	9341	9967	10236	10680
4	ID:00200937	RIMUTAKA		6203	6189	6302	6297	5570	4980	4529	4372	4387	4815	5288	5541
4	ID:01N01036	PUKERUA BAY	23924	24444	23778	24438				20451	20530	20879	21565	22925	22722
4	ID:01N21068	NGAURANGA - NB	23605	21587	20033	23255	22034	22213			21004	21379	21933	21866	22287
4	ID:05800009	Pauatahanui East	14743	14291	13239	14701	14098	13982	13852	12846	12422	12870	13298	13674	14133
4	ID:00210979	NGAURANGA SH2 - SB	23040	20890	19464	22592	21241	21938	21622	20102	20403	20529	21467	21454	21738
4	ID:00220979	NGAURANGA SH2 - NB	22988	20777	19228	22426	21059	21536			20437	20409	21291	21224	21465
4	ID:00600122	STOKE			22298	22127	21246	19204	19903	18737	18278	19028	19305	20042	20282
4	ID:00600232	MURCHISON	1859	2248	2670	2347	2787	1815	1445	1187	1166	1220	1369	1714	1775
4	ID:00600100	HIRA	3511	3327	4053	4011	3852	3322	3624	2666	2677	2724	2866	3118	3295
4	ID:06000040	Riwaka	4109	5155	6553	5489	4737	3764	2999	2561	2412	2538	2806	3471	3868
4	ID:01S00037	Blenheim	4247	4362	4783	4557	4473	4265	4720	3405	3431	3129	3371	3719	3900
5	ID:01S00389	DUNSANDEL	10196	10734	13057	10642	10924	10184	9311	8613	9162	8829	9457	10292	10107
5	ID:01S00505	EVANS St Timaru	22435	22357	25818	21871	20561	20930	19919	18486	19115	18981	20054	20888	21090
5	ID:07300064	Springfield	1667	1757	2035	1879	2042	1687	1275	1099	1357	1526	1527	1644	1617
5	ID:07400006	SEMI Obsolete - Cranford St	22050	21312	20075	22114	21018	21497	21278	20194	20066	20424	20810	20780	21188
5	ID:01S00144	KAIKOURA	2690	3152	3539	3195	3763	2576	2081	1883	1889	1630	1938	2356	2568
5	ID:01S00522	ST ANDREWS	6102	6320	7537	6266	6294	5977	5488	4878	5110	4865	5229	5734	5804
5	ID:00700108	LEWIS PASS	1197	1484	2210	1431	1470	1230	961	818	777	857	942	1192	1125
5	ID:07409005	QE II Drive East Of Main Nth Rd	20122	20702	17920	19359	19325	18944	18511	17870	17533	17511	18395		19211
5	ID:00600454	CHESTERFIELD	3722	2953	3145	3159	3366	2795	2447	2139	2221	2244	2502	2815	2947
5	ID:00700239	AHAURA	1258	1262				1236	1124	1041	1062	1120	1128	1235	1277
5	ID:00600398	PUNAKAIKI	1081	1184	1385	1388	1257	1002					774	964	1018
6	ID:00800336	ALEXANDRA	2081	2531	2706	2392	2317	2129	1809	1619	1730	1840	1912	2060	2013
6	ID:01S10713	BURNSIDE - SB	18270	15748	14237	16443	15456	15638	15444	14539	14906	14797	15455	15445	15906
6	ID:01S20713	BURNSIDE - NB	11992	10563	9696	11185	10533	10331	10558	9823	10183	9982	10497	10537	10786
6	ID:01S50713	BURNSIDE - NB On Ramp	2765	2631	2419	2649	2429	2383	2460	2407	2410	2401	2522	2491	2546
6	ID:01S60713	BURNSIDE - SB Off Ramp	3161	3111	2835	3264	3118	3244	3041	2857	2844	2881	3048	3051	3113
6	ID:01S40713	BURNSIDE - NB Off Ramp	4290	3225	2962	3475	3280	3634	3345	3117	3120	3168	3240	3276	3389
6	ID:01S40714	Burnside - NB Off Ramp	2409	2240	2081	2328	2168	2459	2136	2038	2000	2040	2175	2179	2220
6	ID:01S00765	MILTON	6384	6609	6430	6958	6798	6385		5023	5325	5269	5540	5978	6185
6	ID:01S00921	INVERCARGILL	14792	11574	10031	12058	11518	11528	11480	10937	10870	10974	11316	11268	11822
6	ID:00601147	WINTON	6079	4869	4427	4773	4641	4632	4536	4089	4122	4232	4384	4572	4898
6	ID:01S00854	GORE	4212	4218	4064	4513	4351	4065	3907	4151	3475	3538	3676	3952	4099

## Telemetry Site MADT Heavy Vehicles

NZTA	Site Ref	Description	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08
<b>Region</b>															
1	ID:01N00212	KAWAKAWA	851	711	762	738	753	694	623	542	523	539	635	701	688
1	ID:01000029	Sth of Takou Bay Rd	332			318	322			264	233	220		274	289
1	ID:01N00274	Nth of Maungakaramea Rd	1510			1473	1537		1492					1423	1479
1	ID:01200220	East of Brynderwyn Brg 161	317				317		300		237			301	348
1	ID:01N00130	Nth of Ramseys Brg	159			159	160								160
1	ID:01N00265	Sth of Selwyn Avenue	2397			2408	2399		2291	2206	2053	2170	2282		
1	ID:01N00388	HATFIELDS BEACH	1533	1398	1455	1482	1483	1431	1408	1201	1117	1099	1272	1338	1361
1	ID:01N10459	DRURY - SB	2834	2493	2193	2328	2646	2658	2616	2369	2369	2203	2468	2424	2490
1	ID:01N20459	DRURY - NB	2873	2440	2284	2297	2598	2591	2525	2303	2280	2114	2336	2315	2386
1	ID:01N00339	WELLSFORD	1111	960	1134	1129	1087	1041	990	906	872	867		940	957
1	ID:01N10440	PANAMA Rd - SB													
1	ID:01N20440	PANAMA RD - NB													
1	ID:01N10474	BOMBAY - SB	2292	2032	1996	2187	2030	2127	2041	1894	1826	1746	1949	1959	2001
1	ID:01N20474	BOMBAY - NB	2269	1941	2036	2158	2041	2114	2059	1899	1831	1736	1900	1940	1994
1	ID:01N00424	Auckland Harbour Brg - Centre Span													
1	ID:01N10424	Auckland Harbour Brg - Left Clip-on													
1	ID:01N20424	Auckland Harbour Brg - Right Clip-on													
2	ID:00200002	MAUNGATAWHIRI	1415	2008	2162	2188	2060	1831	1704	1497	1474	1451	1588	1633	1616
2	ID:25A00011	NEEVESVILLE	331	404	453	336	396	285	323	221	214	290	331	352	318
2	ID:02700011	KAIHERE	976	931	863	941	877	871	829	723	710	726	800	855	783
2	ID:01N00526	TAUPIRI	2577			2408	2332	2249	2209	2041	2029	1967	2176	2240	2330
2	ID:01N00620	LICHFIELD	1732	1473		1677	1525	1571	1497	1310	1310	1297	1499	1565	
2	ID:00300085	TE KUIITI	759	673	710	762	711	728	710	634	632	603	666	850	682
2	ID:03200074	West of Taupo	73	68	120	98	83	99	90	73	63	70	94	94	115
2	ID:01N00580	KARAPIRO	1738	1557	1625	1750	1728	1887	1852	1765	1687	1778	1879	1890	1997
2	ID:00200091	WAIHI	927	867	871	899	867	866	1105	705	697	676	749	809	798
2	ID:01N00729	HALLETTS BAY	1224	866	1150	977	836	867	844	727	736	697	766	797	839
2	ID:00200141	TE PUNA	1486	1223	1241	1325	1220	1306	1326	1041	1030	1016	1155	1128	1166
2	ID:03010149	TE NGA	1018	875	890	979	937	933	905	793	817	813	894	887	
2	ID:03020149	East end of Puarenga Brg (Dec)	1158	978	1044	1123	1067	1002	931	796	789	798	924	929	
2	ID:00200204	OHINEPANEA	1077	704	701	745	706	760	741	622	602	634	708	774	745
2	ID:03000188	LAKE ROTOMA	377	355	359	381	367	324	336	300	280	289	324	348	307
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	648		609	632	806	598	582	485	490	506	549	565	574
2	ID:00500034	TARUKENGA	678	577	610	679	643	608	579	488	491	489	569	568	591
2	ID:02900034	KAIMAI	1460	1221	1255	1381	1346	1419	1330	1219	1103	1167	1238	1309	1286
2	ID:00500057	WAIPA	889	730	802	926	912	884	820	703	747	725	794	798	807
3	ID:00200428	ORMOND	264	229	264	308	323	345	250	231	216	206	216	233	240
3	ID:00200627	TANGOIO	370	327	352	407	402	387	358	353	351	310	344	371	372
3	ID:00500230	TE POHUE	555	487	541	573	603	608	534	475	401	434	470	500	507
3	ID:05000010	Nth of Tutaekuri River	1351	1245		1452	1500	1460	1334	1269	1274	1609	1419	1397	1353
3	ID:00300171	TONGAPORUTU Brg	454	406	433	435		411	397	350	355	344	375	399	383
3	ID:00300267	TARIKI	1082	937	926	1066	965	912	916	801	843	812	945	951	989

## Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08
3	ID:00300370	WAITOTARA	611	473	536	598	548	573		425	422	434	501	538	582
3	ID:04500101	OHAWA BEACH Rd	619	488	464	437	403	348	297	220	236	354	561	601	596
3	ID:01N00930	SANSON	1622	1443	1239	1636	1573	1569	1488	1351	1331	1281	1392	1491	1560
3	ID:01N00988	OHAU	1667	1489	1473	1672	1576	1574	1547	1401	1416	1379	1465	1535	1564
3	ID:00200755	NORSEWOOD	736	622	682	758	721	714	631	534	522	494	567	618	681
3	ID:00300489	MANAWATU GORGE	887	801	856	945	921	908	834	743	719	665	735	786	774
3	ID:00400133	HOROPITO	315	287	314	354	326	325	302	295	290	277	268	279	297
3	ID:00400226	UPOKONGARO	217	181	199	221	208	194	174	170		141	173	150	173
3	ID:01N00827	HIHITAH			947			964			826			908	1043
4	ID:01N11068	NGAURANGA - SB	853	747	726	825	764	812	788	768	773	771	815	792	807
4	ID:00200895	CLAREVILLE	777	674	700				570	515	480	477	598	622	674
4	ID:00200937	RIMUTAKA		342	337		369	358	312	276	249	240	273	289	327
4	ID:01N01036	PUKERUA BAY	1838	1582	1528	1749				1484	1517	1448	1555	1606	1657
4	ID:01N21068	NGAURANGA - NB	722	636	615	718	665	694			641	652	701	719	729
4	ID:05800009	Pauatahanui East	492	432	420	509	462	460	459	398	382	380	423	429	454
4	ID:00210979	NGAURANGA SH2 - SB	825	675	693	792	694	748	745	673	706	686	729	754	738
4	ID:00220979	NGAURANGA SH2 - NB	807	659	663	765	662	679			669	662	701	721	706
4	ID:00600122	STOKE			1258	1334	1356	1300	1267	1138	1105	1149	1211	1274	1280
4	ID:00600232	MURCHISON	309	304	384	342	396	278	257	210	204	236	245	276	287
4	ID:00600100	HIRA	538	370	494	567	548	491	546	394	417	429	455	463	473
4	ID:06000040	Riwaka	287	313	382	382	322	275	234	161	131	159	183	237	259
4	ID:01S00037	Blenheim	702	588	611	632	636	729	755	515	496	445	522	564	599
5	ID:01S00389	DUNSANDEL	1572	1454	1893	1572	1522	1490	1408	1211	1256	1233	1471	1654	1587
5	ID:01S00505	EVANS St Timaru	1686	1483	1847	1697	1549	1568	1443	1187	1251	1278	1559	1613	1651
5	ID:07300064	Springfield	242	209	247	263	249	218	180	138	131	140	192	211	206
5	ID:07400006	SEMI Obsolete - Cranford St	586	647	640	706	616	651	611	571	556	513	427	461	456
5	ID:01S00144	KAIKOURA	529	482	531	545	634	505	477	433	417	367	430	468	500
5	ID:01S00522	ST ANDREWS	998	891	1124	1017	944	940	876	704	725	754	889	973	987
5	ID:00700108	LEWIS PASS	199	213	336	223	222	202	181	154	151	192	166	185	180
5	ID:07409005	QE II Drive East Of Main Nth Rd	610	679	558	610	630	632	550	537	525	474	569		569
5	ID:00600454	CHESTERFIELD	474	320	342	336	349	299	246	172	187	210	321	364	374
5	ID:00700239	AHAURA	213	181				215	204	179	173	203	183	201	215
5	ID:00600398	PUNAKAIKI	121	110	120	144	114	101					107	124	123
6	ID:00800336	ALEXANDRA	213	231	265	233	232	212	185	165	172	176	187	196	196
6	ID:01S10713	BURNSIDE - SB	1010	864	838	882	775	698	654	717	811	789	864	873	893
6	ID:01S20713	BURNSIDE - NB	660	569	559	651	602	616	598	519	551	530	463	607	625
6	ID:01S50713	BURNSIDE - NB On Ramp	148	131	134	144	127	137	128	122	118	117	118	112	112
6	ID:01S60713	BURNSIDE - SB Off Ramp	229	220	218	241	214	233	214	199	190	197	207	199	196
6	ID:01S40713	BURNSIDE - NB Off Ramp	258	197	201	236	216	232	213	186	188	185	188	193	194
6	ID:01S40714	Burnside - NB Off Ramp	89	78	81	88	80	89	73	69	64	67	77	72	71
6	ID:01S00765	MILTON	953	929	952	1064	985	965		698	697	632	737	823	803
6	ID:01S00921	INVERCARGILL	541	399	387	458	427	455	438	414	436	412	441	410	443
6	ID:00601147	WINTON	625	493	488	498	476	477	448	342	371	419	451	500	521
6	ID:01S00854	GORE	561	511	512	550	537	507	483	442	360	387	439	490	502