



**Traffic Volumes Monthly Report**  
**September 2008**

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#### Quality Assurance Statement

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#### Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
11	14/10/2008	First 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 September 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 September 2008, compared with September 2007, the monthly average daily traffic (MADT) for all vehicles had reduced by 5.5 percent and the MADT for heavy vehicles had a minimal increased of 0.8 percent.

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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.

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

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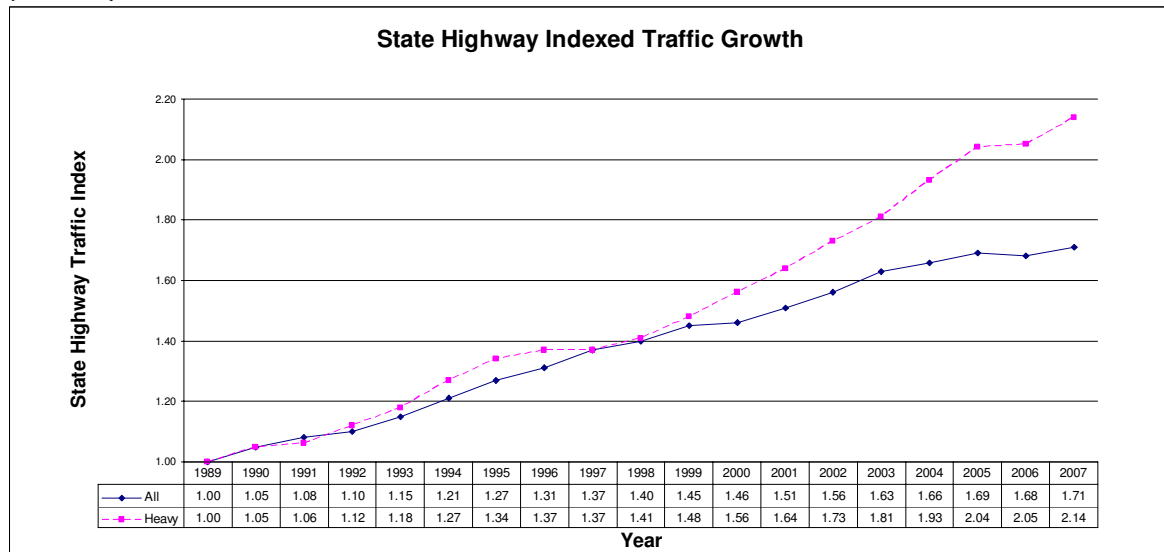
<sup>1</sup> Telemetry sites are continuously monitored 24/7.

# 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 the five cities in NZ.

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

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) September- 07	MADT (All Vehicles) September- 08	% Change
Auckland harbour bridge (SH1)	Auckland	162554	156607	-4%
Lichfield (SH1)	Hamilton	9289	8578	-8%
Ngauranga Interchange (SH 1 and SH 2combined)	Wellington	88679	86909	-2%
Cranford Street	Christchurch	21571	20810	-4%
Burnside (SH1)	Dunedin	28406	25952	-9%

The MADT values decreased across all sites in September when compared to the same period in the previous year with Dunedin showing the largest drop of 9 percent.

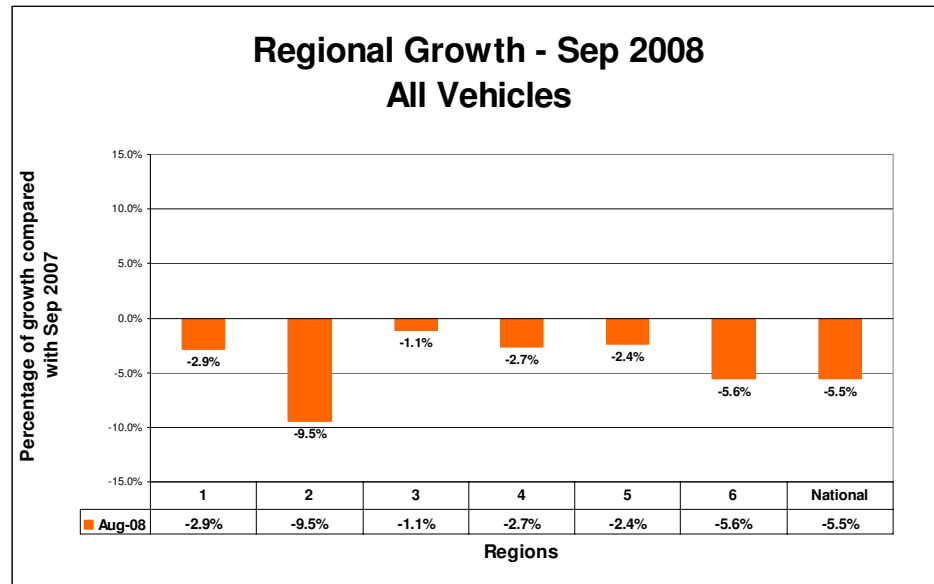
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## Results: All Vehicles

### 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 six regions had decreases in MADT with Waikato and Bay of Plenty having the largest downward contribution of 9.5% for this period. Nationally, the MADT in September 2008 for all vehicles dropped 5.5% compared with September 2007.



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) for the past 12 months are attached to this report.

### All sites

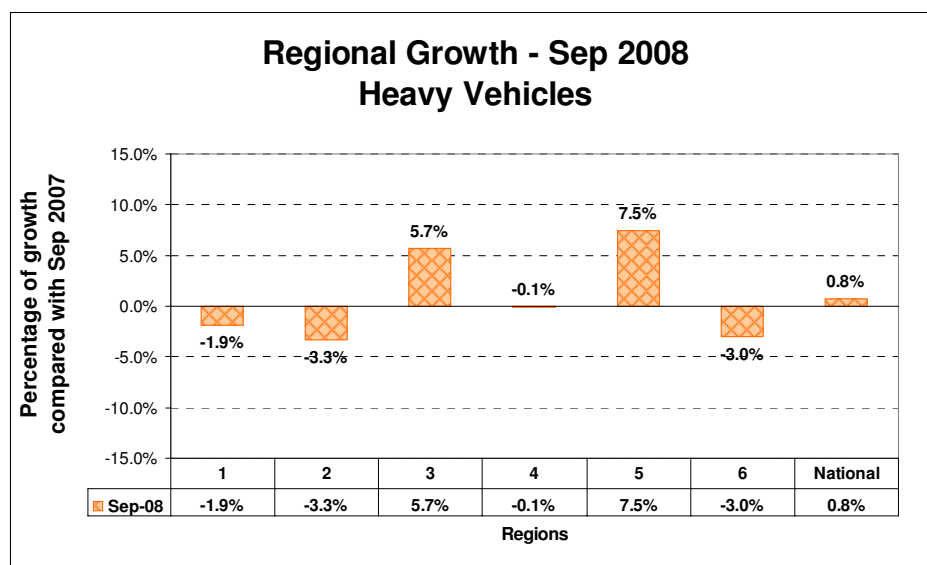
A table of MADT (all vehicles) values for all sites is attached to this report.

## 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 increased in Region 3 and 5 but decreased in all the other regions compared with the same month in the previous year. The largest decrease was 3.3% in Region 2 and the largest increase was 7.5% in Region 5. Nationally, the MADT in September 2008 for heavy vehicles increased 0.8% compared with September 2007.



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) for the past 12 months are attached to this report.

### All sites

A table of MADT (heavy vehicles) values for all 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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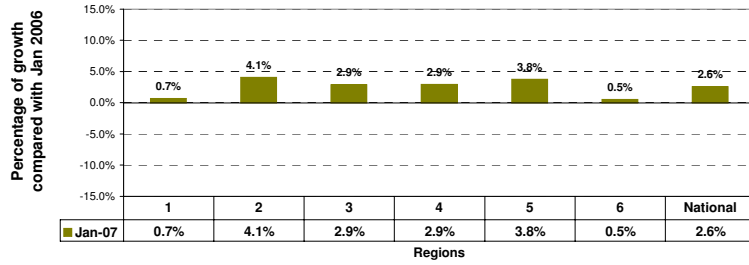
### Current and Previous Years Growth Graphs

- All Vehicles
- Heavy Vehicles

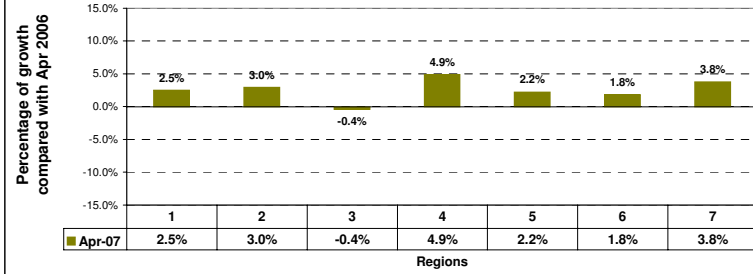
### Telemetry Site MADT's for 2008

- All Vehicles
- Heavy Vehicles

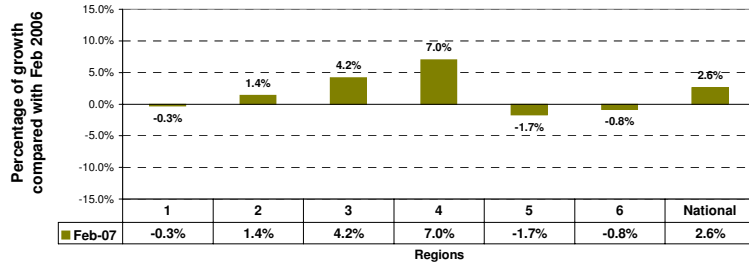
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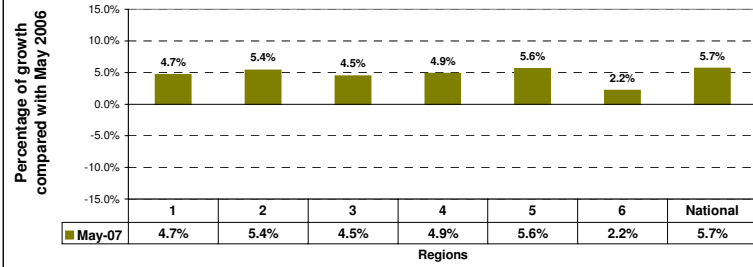
### Regional Growth - Apr 2007 All Vehicles



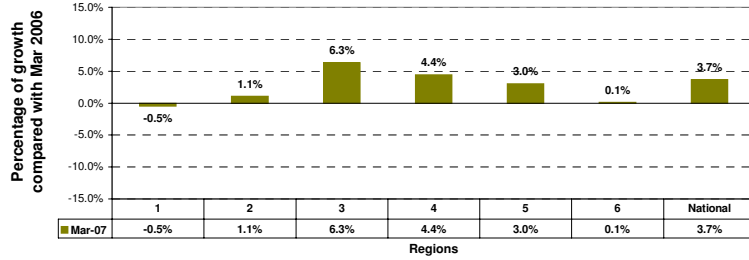
### Regional Growth - Feb 2007 All Vehicles



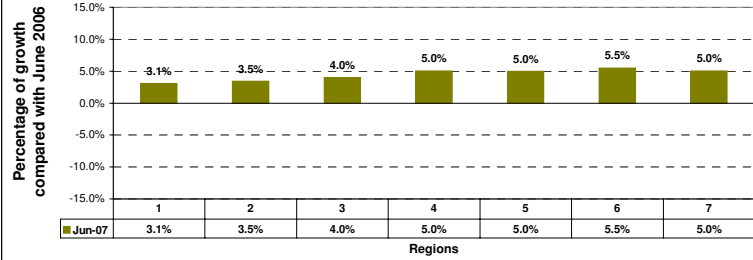
### Regional Growth - May 2007 All Vehicles



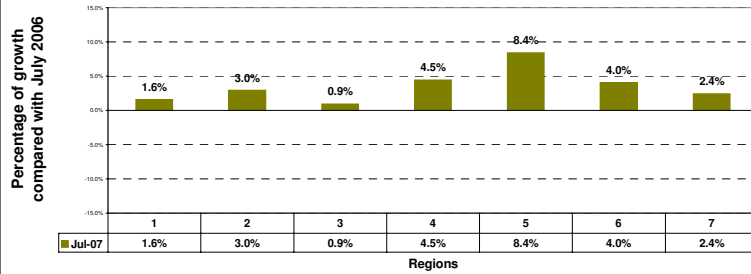
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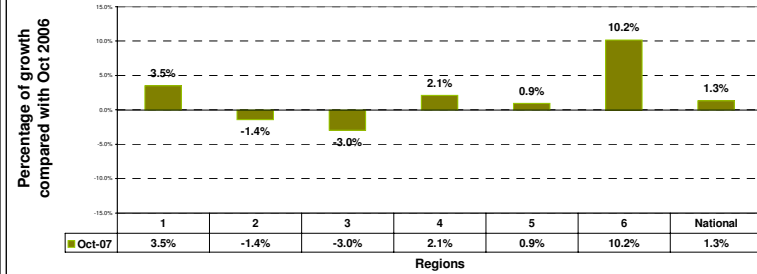
### Regional Growth - June 2007 All Vehicles



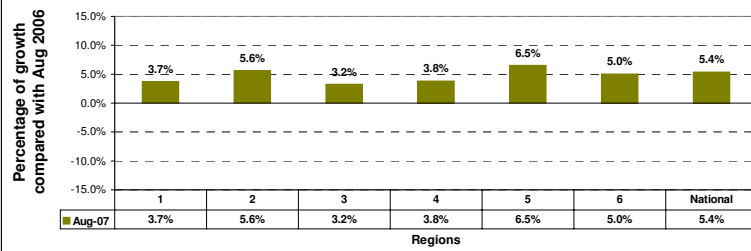
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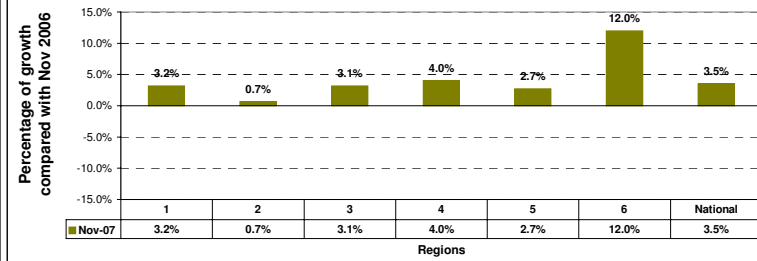
### Regional Growth - Oct 2007 All Vehicles



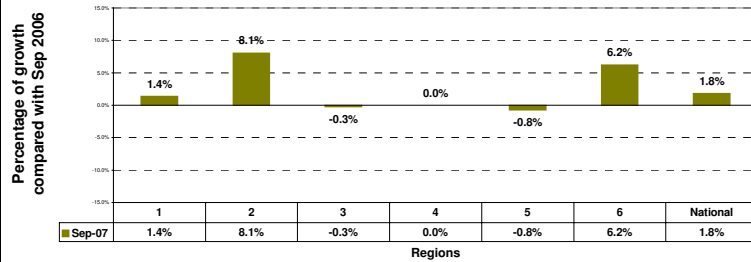
### Regional Growth - Aug 2007 All Vehicles



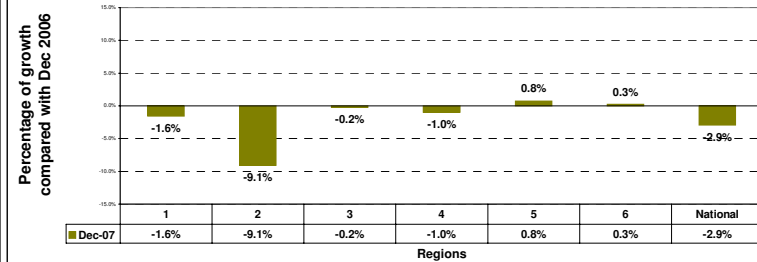
### Regional Growth - Nov 2007 All Vehicles



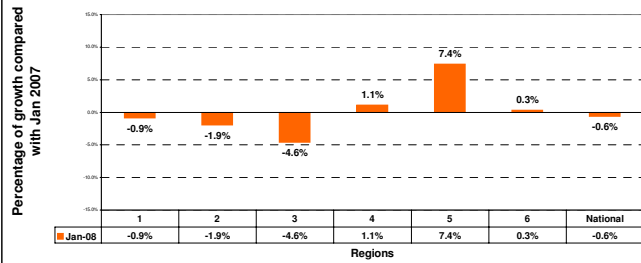
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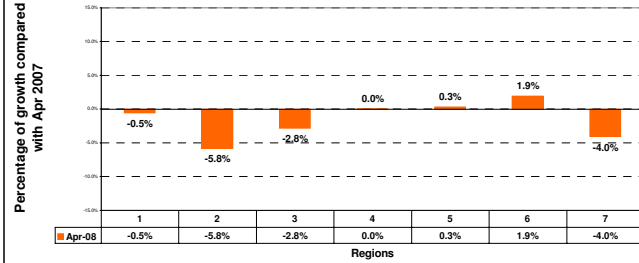
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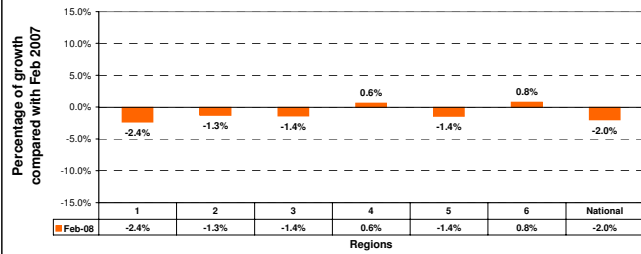
**Regional Growth - Jan 2008  
All Vehicles**



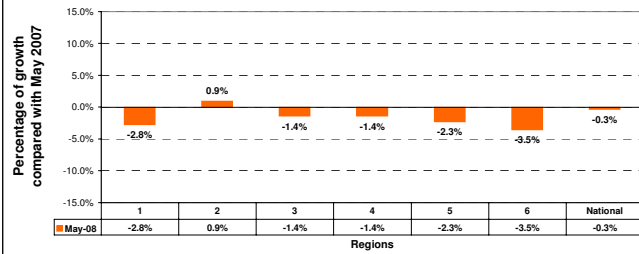
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All Vehicles**



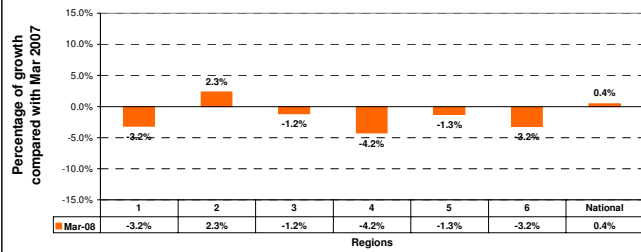
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All Vehicles**



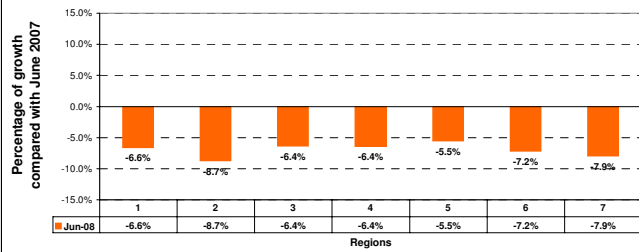
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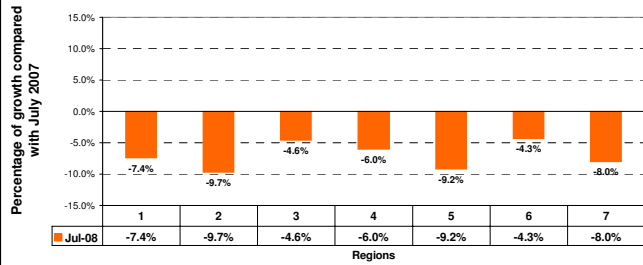
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All Vehicles**



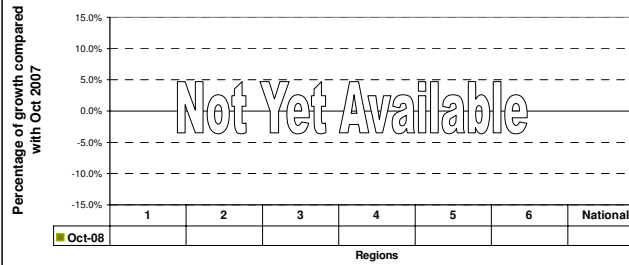
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All Vehicles**



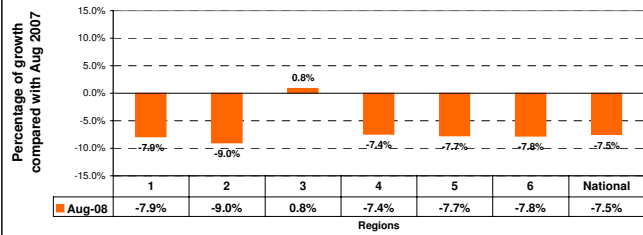
**Regional Growth - July 2008  
All Vehicles**



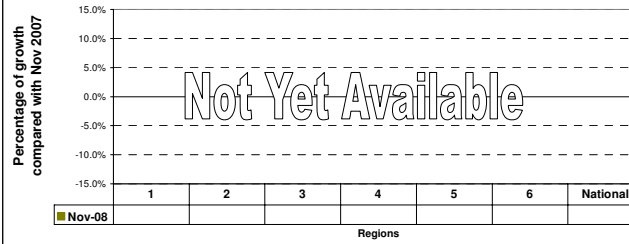
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All Vehicles**



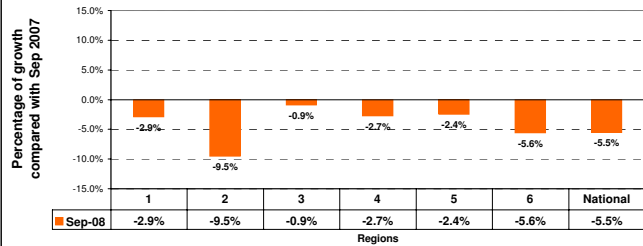
**Regional Growth - Aug 2008  
All Vehicles**



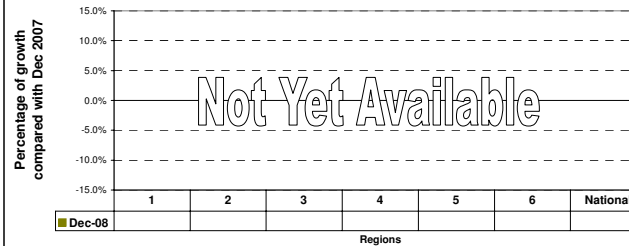
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All Vehicles**



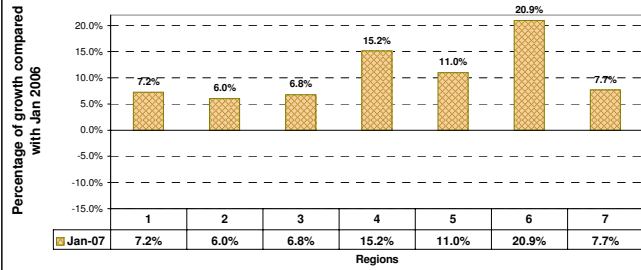
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All Vehicles**



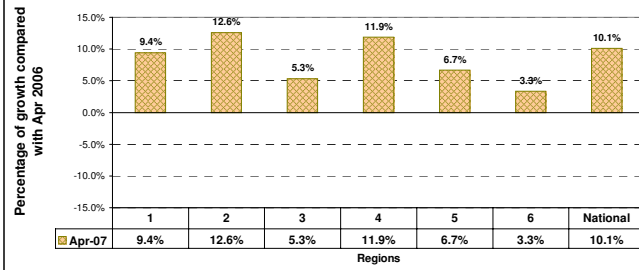
**Regional Growth - Dec 2008  
All Vehicles**



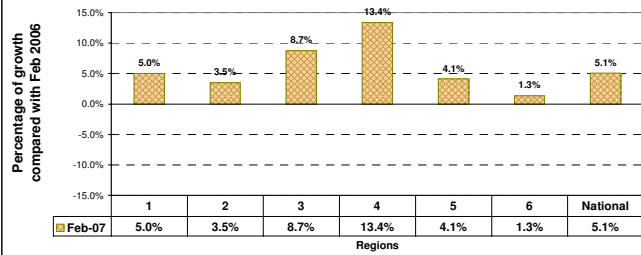
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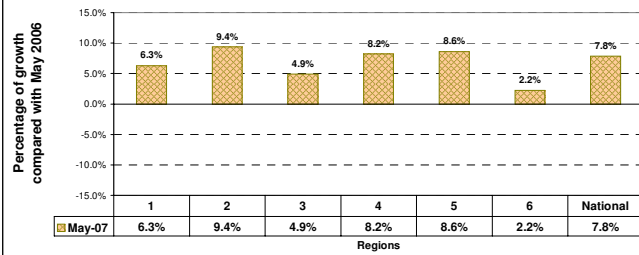
### Regional Growth - Apr 2007 Heavy Vehicles



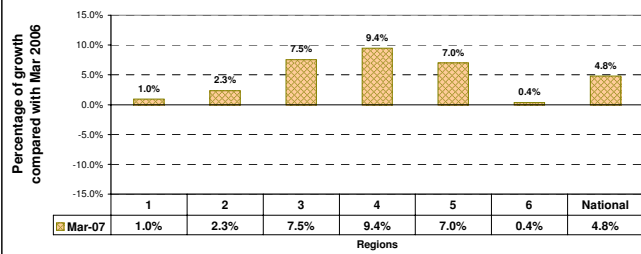
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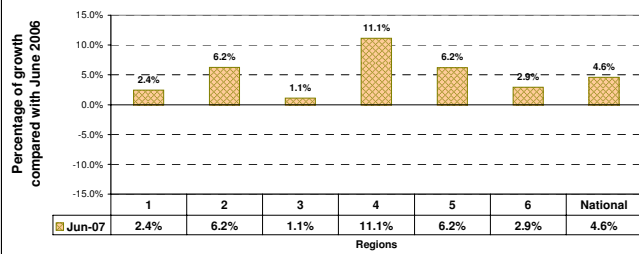
### Regional Growth - May 2007 Heavy Vehicles



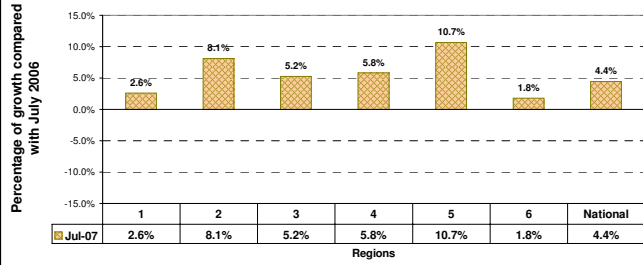
### Regional Growth - Mar 2007 Heavy Vehicles



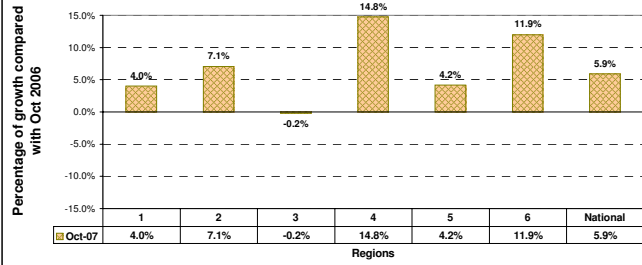
### Regional Growth - June 2007 Heavy Vehicles



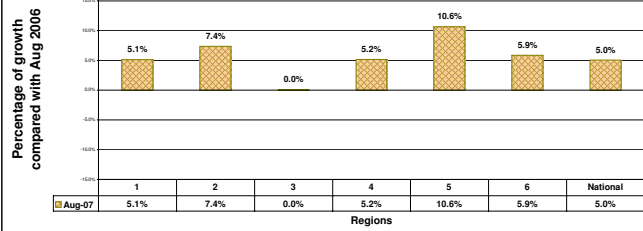
**Regional Growth - July 2007  
Heavy Vehicles**



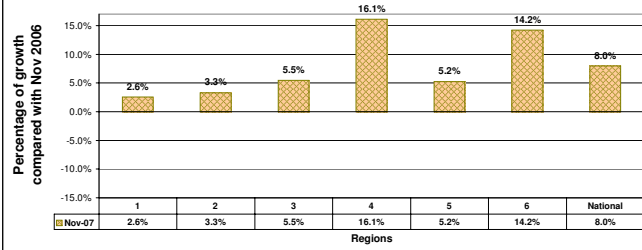
**Regional Growth - Oct 2007  
Heavy Vehicles**



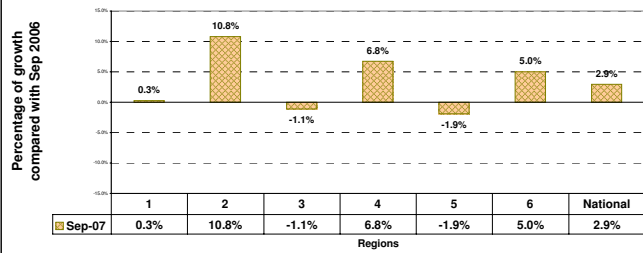
**Regional Growth - Aug 2007  
Heavy Vehicles**



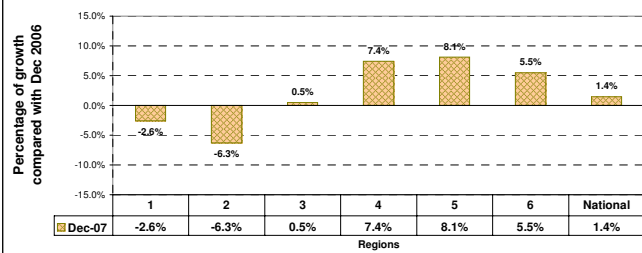
**Regional Growth - Nov 2007  
Heavy Vehicles**



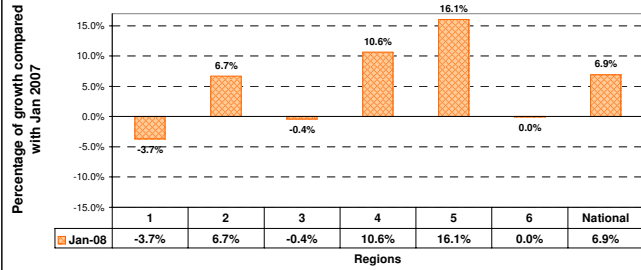
**Regional Growth - Sep 2007  
Heavy Vehicles**



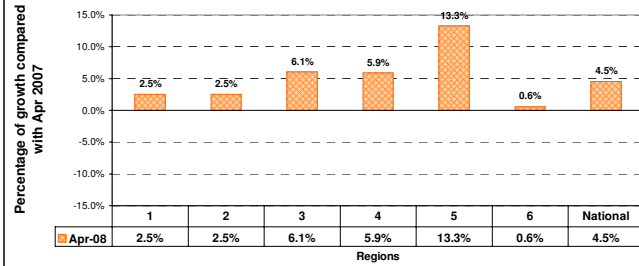
**Regional Growth - Dec 2007  
Heavy Vehicles**



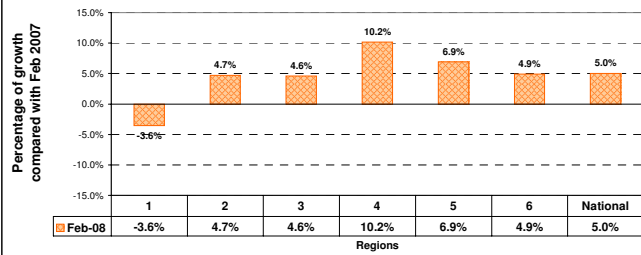
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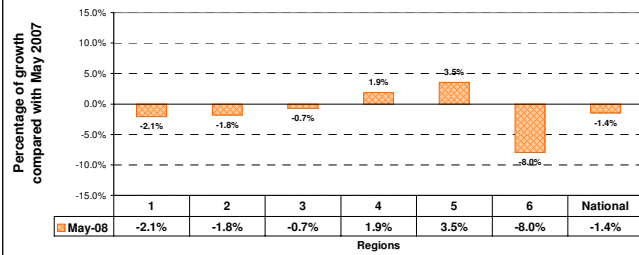
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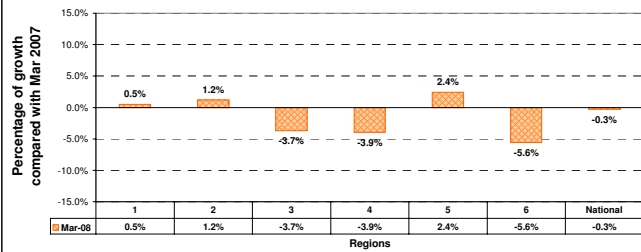
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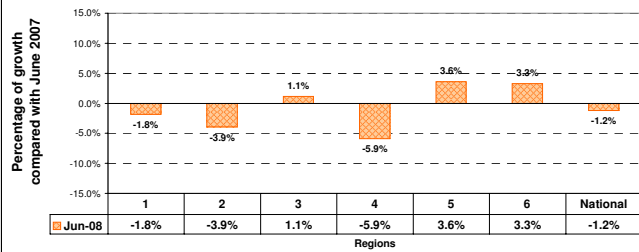
### Regional Growth - May 2008 Heavy Vehicles



### Regional Growth - Mar 2008 Heavy Vehicles

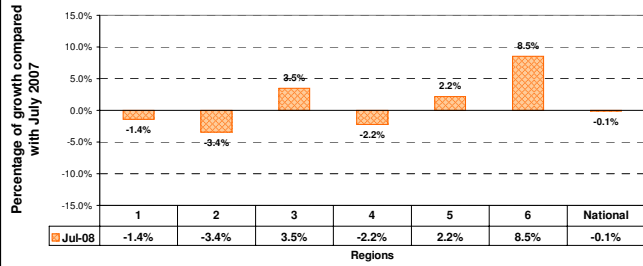


### Regional Growth - June 2008 Heavy Vehicles

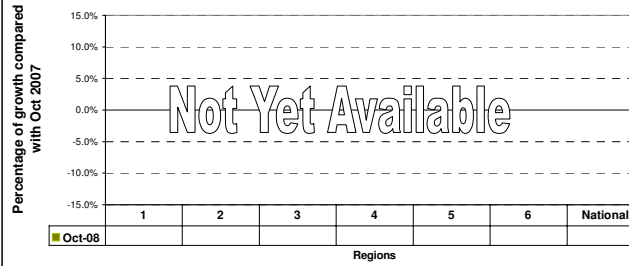




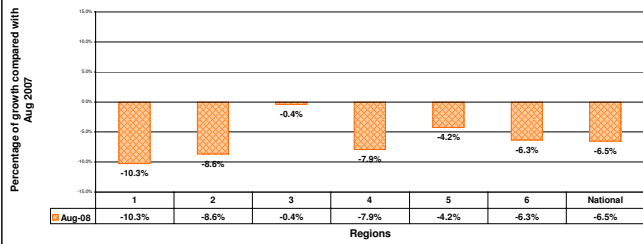
**Regional Growth - July 2008  
Heavy Vehicles**



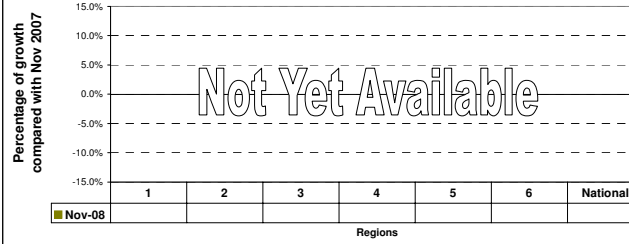
**Regional Growth - Oct 2008  
Heavy Vehicles**



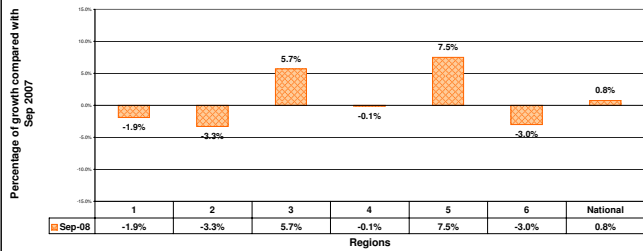
**Regional Growth - Aug 2008  
Heavy Vehicles**



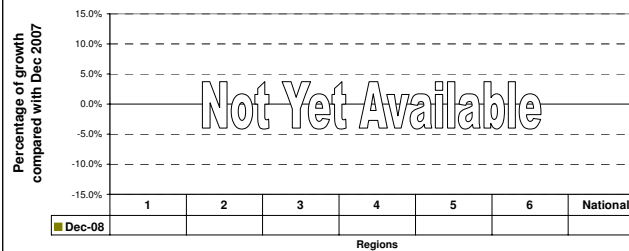
**Regional Growth - Nov 2008  
Heavy Vehicles**



**Regional Growth - Sep 2008  
Heavy Vehicles**



**Regional Growth - Dec 2008  
Heavy Vehicles**



## Telemetry Site MADT All Vehicles

Region	Site Ref	Description	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
1	ID:01N00212	KAWAKAWA	5749	6429	6533	7121	7547	6782	7010	6187	5685	5090	4971	5072	5422
1	ID:01000029	Sth of Takou Bay Rd	3388	3747	3816			4078	4088			3220	3036	2960	
1	ID:01N00274	Nth of Maungakaramea Rd	13328	13924	14332			14586	14832		13584				
1	ID:01200220	East of Brynderwyn Brg 161	2704	2796	2926			3099			2688		2417		
1	ID:01N00130	Nth of Ramseys Brg	1002	1120	1089			1148	1188						
1	ID:01N00265	Sth of Selwyn Avenue	21992	22787	23669			23107	22712		22162	21364	20290	21054	21357
1	ID:01N00388	HATFIELDS BEACH	16783	17844	18730	20247	22215	19682	19475	17775	16548	14853	14594	14826	16051
1	ID:01N10459	DRURY - SB	28769	28601	29716	30387	26985	24719	29589	28780	28175	25893	25764	25866	27270
1	ID:01N20459	DRURY - NB	28770	28585	29865	29213	29426	24810	29880	28859	27996	26540	25986	26052	27278
1	ID:01N00339	WELLSFORD	8399	9183	9291	9703	11628	10072	10323	9127	8301	7554	7433	7358	
1	ID:01N10440	PANAMA Rd - SB	60927	61954	65136	60342	57317	62695	61126	61541	61538	57765	57837	58572	61851
1	ID:01N20440	PANAMA RD - NB	59072	59937	62368	57649	55191	59365	58285	58623	58086	55241	55069	55876	59171
1	ID:01N10474	BOMBAY - SB	17046	17472	18057	20017	19241	18933	17999	17802	16623	15263	15147	15249	16233
1	ID:01N20474	BOMBAY - NB	19987	18561	17812	18547	20394	18622	18466	17776	16355	15726	15188	15169	15969
1	ID:01N00424	Auckland Harbour Brg - Centre Span	80085	81501	85078	81809	77393	78441	77861	77967	75750	69070	67950	76880	80840
1	ID:01N10424	Auckland Harbour Brg - Left Clip-on	38993	40306	42666	40176	35745	40952	31304	40842	40277	38444	38016	38804	40551
1	ID:01N20424	Auckland Harbour Brg - Right Clip-on	43476	44779	46073	35673	21229	44324	41052	40202	42790	40237	38948	34592	35216
2	ID:00200002	MAUNGATAWHIRI	15570	12710	7946	14509	16631	14160	13234	12737	11773	10618	10309	10538	11282
2	ID:25A00011	NEEVESVILLE	2607	3250	3151	4481	5753	3691	4215	3049	3342	2292	2211	2451	2590
2	ID:02700011	KAIHERE	4193	4387	4379	5070	4592	4471	4407	4247	3820	3477	3455	3474	3614
2	ID:01N00526	TAUPIRI	20532	20562	21292			21396	22023	20885	19901	18835	18924	18988	19725
2	ID:01N00620	LICHFIELD	9289	11742	9597	9443		10517	10005	9337	8767	7951	8101	8025	8578
2	ID:00300085	TE KUITI	4292	4813	3995	4411	4398	4147	4388	4034	3777	3680	3935	3929	4162
2	ID:03200074	West of Taupo	706	687	653	829	1147	803	710	766	596	538	560	595	699
2	ID:01N00580	KARAPIRO	19390	14522	15099	15756	15945	15832	15847	15045	13979	13473	12909	13065	13713
2	ID:00200091	WAIHI	6985	7546	7637	8867	9923	8105	8153	7451	9375	6284	6069	6099	6528
2	ID:01N00729	HALLETTS BAY	5482	5479	6947	6338	8780	6029	5315	5339	4640	4163	4933	4686	4986
2	ID:00200141	TE PUNA	15603	16075	17891	17298	17075	16702	16496	16033	15801	14268	13951	14140	14977
2	ID:03010149	TE NGA	17438	13788	19242	18707	18279	18899	17939	17684	17363	16177	16152	16231	17051
2	ID:03020149	East end of Puarenga Brg (Dec)	17356	18076	19038	18216	18224	18708	17705	17544	17318	16222	16148	16200	16970
2	ID:00200204	OHINEPANEA	4664	4984	6453	5438	5611	4997	5062	4893	4640	4230	4147	4082	4376
2	ID:03000188	LAKE ROTOMA	4041	3016	3166	3444	3698	3313	3199	3056	2869	2592	2526	2472	2659
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	5250	3950	4204		5022	4370	5732	4047	3847	3372	3379	3429	3570
2	ID:00500034	TARUKENGA	5075	5167	5321	5604	5753	5823	5696	5435	4854	4545	4815	4421	4693
2	ID:02900034	KAIMAI	8722	9054	9405	10141	10139	9576	10071	9546	8825	8775	7933	8361	8431
2	ID:00500057	WAIPA	7023	7159	7518	7823	8447	8185	8255	7310	6864	6061	6386	6296	6646
3	ID:00200428	ORMOND	2278	2474	2540	2743	2738	2642	2571	2960	2235	2124	2090	2106	2178
3	ID:00200627	TANGOIO	1923	2103	2081	2348	2363	2213	2273	2038	1859	1739	1739	1687	1843

## Telemetry Site MADT All Vehicles

Region	Site Ref	Description	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
3	ID:00500230	TE POHUE	2585	2809	2728	3267	3553	3186	3432	2924	2425	2208	1907	2155	2344
3	ID:05000010	Nth of Tutaekuri River	18833	19062	21111	20652		21857	21148	20811	19184	18633	18979	23484	20339
3	ID:00300171	TONGAPORUTU Brg	1945	2116	2063	2433	2599	2224		2128	1901	1824	1796	1730	1870
3	ID:00300267	TARIKI	8315	8492	9199	9080	8281	9108	8919	8656	8620	8054	8011	7964	8270
3	ID:00300370	WAITOTARA	3226	3550	3565	3763	3646	3648	3759	3481		2893	3045	2986	3205
3	ID:04500101	OHAWE BEACH Rd	4146	3372	4639	4437	4331	4390	4269	4236	4180	3817	3870	3983	4475
3	ID:01N00930	SANSON	11794	12001	12312	13208	11150	12932	13154	12226	11327	10503	10723	10680	11135
3	ID:01N00988	OHAU	14668	14854	15519	16454	16326	16298	16174	15362	14439	13007	13290	13395	13983
3	ID:00200755	NORSEWOOD	4501	4003	4062	4616	4621	4487	4668	4130	3662	3236	3359	3213	3438
3	ID:00300489	MANAWATU GORGE	6554	6864	7073	7528	7380	7410	7475	6927	6564	6039	6054	5891	6205
3	ID:00400133	HOROPITO	2397	1807	1674	1966	2041	1913	1795	1704	1479	1605	2131	2241	2254
3	ID:00400226	UPOKONGARO	1964	1912	2065	2285	2162	2148	2162	2008	1834	1733		1752	2126
3	ID:01N00827	HIHITAH					6086			4735			4073		
4	ID:01N11068	NGAURANGA - SB	22616	22482	23751	21773	20532	23468	22172	22516	22319	21236	21396	21576	22218
4	ID:00200895	CLAREVILLE	10324	10561	11183	11139	10374				10134	9480	9241	9341	9967
4	ID:00200937	RIMUTAKA	5258			6203	6189	6302	6297	5570	4980	4529	4372	4387	4815
4	ID:01N01036	PUKERUA BAY	22207	22623	23924	24444	23778	24438				20451	20530	20879	21565
4	ID:01N21068	NGAURANGA - NB	22536	22388	23605	21587	20033	23255	22034	22213			21004	21379	21933
4	ID:05800009	Pauatahanui East	14005	13954	14743	14291	13239	14701	14098	13982	13852	12846	12422	12870	13298
4	ID:00210979	NGAURANGA SH2 - SB	21720	22005	23040	20890	19464	22592	21241	21938	21622	20102	20403	20529	21467
4	ID:00220979	NGAURANGA SH2 - NB	21807	21912	22988	20777	19228	22426	21059	21536			20437	20409	21291
4	ID:00600122	STOKE					22298	22127	21246	19204	19903	18737	18278	19028	19305
4	ID:00600232	MURCHISON	1502	1663	1859	2248	2670	2347	2787	1815	1445	1187	1166	1220	1369
4	ID:00600100	HIRA	3078	3247	3511	3327	4053	4011	3852	3322	3624	2666	2677	2724	2866
4	ID:06000040	Riwaka	3014	3455	4109	5155	6553	5489	4737	3764	2999	2561	2412	2538	2806
4	ID:01S00037	Blenheim	3609	3852	4247	4362	4783	4557	4473	4265	4720	3405	3431	3129	3371
5	ID:01S00389	DUNSANDEL	9385	9862	10196	10734	13057	10642	10924	10184	9311	8613	9162	8829	9457
5	ID:01S00505	EVANS St Timaru	20504	21432	22435	22357	25818	21871	20561	20930	19919	18486	19115	18981	20054
5	ID:07300064	Springfield	1482	1552	1667	1757	2035	1879	2042	1687	1275	1099	1357	1526	1527
5	ID:07400006	SEMI Obsolete - Cranford St	21571	21407	22050	21312	20075	22114	21018	21497	21278	20194	20066	20424	20810
5	ID:01S00144	KAIKOURA	2095	2489	2690	3152	3539	3195	3763	2576	2081	1883	1889	1630	1938
5	ID:01S00522	ST ANDREWS	5513	5857	6102	6320	7537	6266	6294	5977	5488	4878	5110	4865	5229
5	ID:00700108	LEWIS PASS	996	1174	1197	1484	2210	1431	1470	1230	961	818	777	857	942
5	ID:07409005	QE II Drive East Of Main Nth Rd	18951	19257	20122	20702	17920	19359	19325	18944	18511	17870	17533	17511	18395
5	ID:00600454	CHESTERFIELD	2496	2647	3722	2953	3145	3159	3366	2795	2447	2139	2221	2244	2502
5	ID:00700239	AHAURA	1079	1216	1258	1262				1236	1124	1041	1062	1120	1128
5	ID:00600398	PUNAKAIKI	783	922	1081	1184	1385	1388	1257	1002					774

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Region	Site Ref	Description	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
6	ID:00800336	ALEXANDRA	2099	2520	2081	2531	2706	2392	2317	2129	1809	1619	1730	1840	1912
6	ID:01S10713	BURNSIDE - SB	17082	17157	18270	15748	14237	16443	15456	15638	15444	14539	14906	14797	15455
6	ID:01S20713	BURNSIDE - NB	11324	11374	11992	10563	9696	11185	10533	10331	10558	9823	10183	9982	10497
6	ID:01S50713	BURNSIDE - NB On Ramp	2621	2610	2765	2631	2419	2649	2429	2383	2460	2407	2410	2401	2522
6	ID:01S60713	BURNSIDE - SB Off Ramp	3123	3169	3161	3111	2835	3264	3118	3244	3041	2857	2844	2881	3048
6	ID:01S40713	BURNSIDE - NB Off Ramp	4060	4126	4290	3225	2962	3475	3280	3634	3345	3117	3120	3168	3240
6	ID:01S40714	Burnside - NB Off Ramp	2231	2263	2409	2240	2081	2328	2168	2459	2136	2038	2000	2040	2175
6	ID:01S00765	MILTON	5711	7238	6384	6609	6430	6958	6798	6385		5023	5325	5269	5540
6	ID:01S00921	INVERCARGILL	11524	11626	14792	11574	10031	12058	11518	11528	11480	10937	10870	10974	11316
6	ID:00601147	WINTON	4367	4575	6079	4869	4427	4773	4641	4632	4536	4089	4122	4232	4384
6	ID:01S00854	GORE	3591	4731	4212	4218	4064	4513	4351	4065	3907	4151	3475	3538	3676

## Telemetry Site MADT Heavy Vehicles

Region	Site Ref	Description	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
1	ID:01N00212	KAWAKAWA	639	768	851	711	762	738	753	694	623	542	523	539	635
1	ID:01000029	Sth of Takou Bay Rd	268	291	332			318	322			264	233	220	
1	ID:01N00274	Nth of Maungakaramea Rd	1279	1423	1510			1473	1537		1492				
1	ID:01200220	East of Brynderwyn Brg 161	283	300	317				317		300		237		
1	ID:01N00130	Nth of Ramseys Brg	146	160	159			159	160						
1	ID:01N00265	Sth of Selwyn Avenue	2081	2256	2397			2408	2399		2291	2206	2053	2170	2282
1	ID:01N00388	HATFIELDS BEACH	1250	1414	1533	1398	1455	1482	1483	1431	1408	1201	1117	1099	1272
1	ID:01N10459	DRURY - SB	2531	2649	2834	2493	2193	2328	2646	2658	2616	2369	2369	2203	2468
1	ID:01N20459	DRURY - NB	2512	2628	2873	2440	2284	2297	2598	2591	2525	2303	2280	2114	2336
1	ID:01N00339	WELLSFORD	918	1058	1111	960	1134	1129	1087	1041	990	906	872	867	
1	ID:01N10440	PANAMA Rd - SB													
1	ID:01N20440	PANAMA RD - NB													
1	ID:01N10474	BOMBAY - SB	1958	2054	2292	2032	1996	2187	2030	2127	2041	1894	1826	1746	1949
1	ID:01N20474	BOMBAY - NB	2185	2209	2269	1941	2036	2158	2041	2114	2059	1899	1831	1736	1900
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	2595	2134	1415	2008	2162	2188	2060	1831	1704	1497	1474	1451	1588
2	ID:25A00011	NEEVESVILLE	266	356	331	404	453	336	396	285	323	221	214	290	331
2	ID:02700011	KAIHERE	812	904	976	931	863	941	877	871	829	723	710	726	800
2	ID:01N00526	TAUPIRI	2200	2384	2577			2408	2332	2249	2209	2041	2029	1967	2176
2	ID:01N00620	LICHFIELD	1522	2030	1732	1473		1677	1525	1571	1497	1310	1310	1297	1499
2	ID:00300085	TE KUITI	645	825	759	673	710	762	711	728	710	634	632	603	666
2	ID:03200074	West of Taupo	61	67	73	68	120	98	83	99	90	73	63	70	94
2	ID:01N00580	KARAPIRO	1921	1529	1738	1557	1625	1750	1728	1887	1852	1765	1687	1778	1879
2	ID:00200091	WAIHI	760	851	927	867	871	899	867	866	1105	705	697	676	749
2	ID:01N00729	HALLETTS BAY	783	874	1224	866	1150	977	836	867	844	727	736	697	766
2	ID:00200141	TE PUNA	1200	1294	1486	1223	1241	1325	1220	1306	1326	1041	1030	1016	1155
2	ID:03010149	TE NGA	848	707	1018	875	890	979	937	933	905	793	817	813	894
2	ID:03020149	East end of Puarenga Brg (Dec)	887	1008	1158	978	1044	1123	1067	1002	931	796	789	798	924
2	ID:00200204	OHINEPANEA	728	828	1077	704	701	745	706	760	741	622	602	634	708
2	ID:03000188	LAKE ROTOMA	461	372	377	355	359	381	367	324	336	300	280	289	324
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	720	561	648		609	632	806	598	582	485	490	506	549
2	ID:00500034	TARUKENGA	537	594	678	577	610	679	643	608	579	488	491	489	569
2	ID:02900034	KAIMAI	1137	1266	1460	1221	1255	1381	1346	1419	1330	1219	1103	1167	1238
2	ID:00500057	WAIPA	732	789	889	730	802	926	912	884	820	703	747	725	794
3	ID:00200428	ORMOND	212	231	264	229	264	308	323	345	250	231	216	206	216
3	ID:00200627	TANGOIO	316	351	370	327	352	407	402	387	358	353	351	310	344

## Telemetry Site MADT Heavy Vehicles

Region	Site Ref	Description	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
3	ID:00500230	TE POHUE	462	497	555	487	541	573	603	608	534	475	401	434	470
3	ID:05000010	Nth of Tutaekuri River	1187	1197	1351	1245		1452	1500	1460	1334	1269	1274	1609	1419
3	ID:00300171	TONGAPORUTU Brg	387	412	454	406	433	435		411	397	350	355	344	375
3	ID:00300267	TARIKI	899	973	1082	937	926	1066	965	912	916	801	843	812	945
3	ID:00300370	WAITOTARA	472	546	611	473	536	598	548	573		425	422	434	501
3	ID:04500101	OHAWA BEACH Rd	519	453	619	488	464	437	403	348	297	220	236	354	561
3	ID:01N00930	SANSON	1329	1433	1622	1443	1239	1636	1573	1569	1488	1351	1331	1281	1392
3	ID:01N00988	OHAU	1401	1495	1667	1489	1473	1672	1576	1574	1547	1401	1416	1379	1465
3	ID:00200755	NORSEWOOD	666	626	736	622	682	758	721	714	631	534	522	494	567
3	ID:00300489	MANAWATU GORGE	702	777	887	801	856	945	921	908	834	743	719	665	735
3	ID:00400133	HOROPITO	255	262	315	287	314	354	326	325	302	295	290	277	268
3	ID:00400226	UPOKONGARO	164	167	217	181	199	221	208	194	174	170		141	173
3	ID:01N00827	HIHITAHU					947			964			826		
4	ID:01N11068	NGAURANGA - SB	751	767	853	747	726	825	764	812	788	768	773	771	815
4	ID:00200895	CLAREVILLE	630	648	777	674	700				570	515	480	477	598
4	ID:00200937	RIMUTAKA	304			342	337	381	369	358	312	276	249	240	273
4	ID:01N01036	PUKERUA BAY	1581	1665	1838	1582	1528	1749				1484	1517	1448	1555
4	ID:01N21068	NGAURANGA - NB	640	666	722	636	615	718	665	694			641	652	701
4	ID:05800009	Pauatahanui East	429	440	492	432	420	509	462	460	459	398	382	380	423
4	ID:00210979	NGAURANGA SH2 - SB	717	759	825	675	693	792	694	748	745	673	706	686	729
4	ID:00220979	NGAURANGA SH2 - NB	691	726	807	659	663	765	662	679			669	662	701
4	ID:00600122	STOKE					1258	1334	1356	1300	1267	1138	1105	1149	1211
4	ID:00600232	MURCHISON	250	274	309	304	384	342	396	278	257	210	204	236	245
4	ID:00600100	HIRA	445	474	538	370	494	567	548	491	546	394	417	429	455
4	ID:06000040	Riwaka	216	226	287	313	382	382	322	275	234	161	131	159	183
4	ID:01S00037	Blenheim	581	631	702	588	611	632	636	729	755	515	496	445	522
5	ID:01S00389	DUNSANDEL	1315	1495	1572	1454	1893	1572	1522	1490	1408	1211	1256	1233	1471
5	ID:01S00505	EVANS St Timaru	1379	1635	1686	1483	1847	1697	1549	1568	1443	1187	1251	1278	1559
5	ID:07300064	Springfield	195	205	242	209	247	263	249	218	180	138	131	140	192
5	ID:07400006	SEMI Obsolete - Cranford St	468	468	586	647	640	706	616	651	611	571	556	513	427
5	ID:01S00144	KAIKOURA	417	483	529	482	531	545	634	505	477	433	417	367	430
5	ID:01S00522	ST ANDREWS	821	917	998	891	1124	1017	944	940	876	704	725	754	889
5	ID:00700108	LEWIS PASS	156	196	199	213	336	223	222	202	181	154	151	192	166
5	ID:07409005	QE II Drive East Of Main Nth Rd	595	610	610	679	558	610	630	632	550	537	525	474	569
5	ID:00600454	CHESTERFIELD	304	336	474	320	342	336	349	299	246	172	187	210	321
5	ID:00700239	AHAURA	169	205	213	181				215	204	179	173	203	183
5	ID:00600398	PUNAKAIKI	84	104	121	110	120	144	114	101					107

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Region	Site Ref	Description	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
6	ID:00800336	ALEXANDRA	187	236	213	231	265	233	232	212	185	165	172	176	187
6	ID:01S10713	BURNSIDE - SB	878	881	1010	864	838	882	775	698	654	717	811	789	864
6	ID:01S20713	BURNSIDE - NB	570	573	660	569	559	651	602	616	598	519	551	530	463
6	ID:01S50713	BURNSIDE - NB On Ramp	130	130	148	131	134	144	127	137	128	122	118	117	118
6	ID:01S60713	BURNSIDE - SB Off Ramp	224	226	229	220	218	241	214	233	214	199	190	197	207
6	ID:01S40713	BURNSIDE - NB Off Ramp	238	241	258	197	201	236	216	232	213	186	188	185	188
6	ID:01S40714	Burnside - NB Off Ramp	78	77	89	78	81	88	80	89	73	69	64	67	77
6	ID:01S00765	MILTON	827	1060	953	929	952	1064	985	965		698	697	632	737
6	ID:01S00921	INVERCARGILL	394	417	541	399	387	458	427	455	438	414	436	412	441
6	ID:00601147	WINTON	414	450	625	493	488	498	476	477	448	342	371	419	451
6	ID:01S00854	GORE	411	558	561	511	512	550	537	507	483	442	360	387	439