



## Traffic Volumes Monthly Report September 2013

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#### Quality Assurance Statement

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#### Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	8/10/2013	Final	Gerald Wen	Philip Blagdon	

# Overview

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## Summary

The purpose of this report is to provide information about changes to and trends in Monthly Average Daily Traffic (MADT) on state highways.

## September 2013 State Highway Traffic Insights

**1.3%**

Nationally, the MADT of all vehicles was up 1.3% versus the same month last year, slightly less than last month's 1.5% increase. Regionally, Region5 (Canterbury and West Coast) recorded the largest increase in September, with a more moderate increase measured in region1 (Northland and Auckland), region2 (Waikato and Bay of Plenty) and region6 (Otago and Southland).

**5.6%**

Nationally, the MADT for heavy vehicles was up 5.6 % versus the same month last year, higher than last month's 4% increase. All regions had an increase with a range of +4.3% to +13.6%. The growth of heavy vehicles was led by region5 (Canterbury and West Coast, +13.6%), followed by region1 (Northland and Auckland, +8.5%).

**13.6%**

The 13.6% heavy vehicles growth in region5 (Canterbury and West Coast ) represents the strongest monthly increase rate for any region in the year to September.

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

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## Technical Notes

**What is MADT?** Monthly Average Daily Traffic (MADT) is the average of daily traffic volume in a given month. Each monitored location (count site), MADT is reported for all vehicles and heavy vehicles<sup>1</sup>.  
MADT is the statistical term used throughout this report.

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

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

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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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**Site Coverage** The table below shows the number of traffic counting sites in each NZ Transport Agency region. These numbers represent the sample sizes that are used to report the National and regional MADT changes in this report.

NZ Transport Agency Region	Number of Sites
Northland and Auckland	18
Waikato and Bay of Plenty	25
Taranaki, Manawatu-Wanganui, Hawkes Bay and Gisborne	19
Wellington, Nelson, Marlborough and Tasman	17
Canterbury and West Coast	15
Otago and Southland	19
Total	113

These sites are mostly NZTA's national telemetry site. There are also a few regional continuous sites used in Auckland.

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**Sources of variation in MADT** The number of weekends in a specific month can affect the MADT comparability between years. Also, public holidays that occur in different months can affect comparisons between years. This report does not attempt to compensate for these variations.

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

**Results:  
Monthly  
traffic at key  
sites**

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

The MADT values for September 2012, September 2013 and percentage change compared are reported in the table below.

Note the MADT values include all vehicles.

Site	City Represented	MADT (All Vehicles) September - 12	MADT (All Vehicles) September - 13	% Change
Auckland Harbour Bridge (SH1)	Auckland	157269	159513	1%
Greenwood (SH1)	Hamilton	22284	23081	4%
Ngauranga Interchange (SH 1 and SH2)	Wellington	82610	83252	1%
Waimakariri Bridge	Christchurch	41179	42758	4%
Burnside	Dunedin	25124	25659	2%

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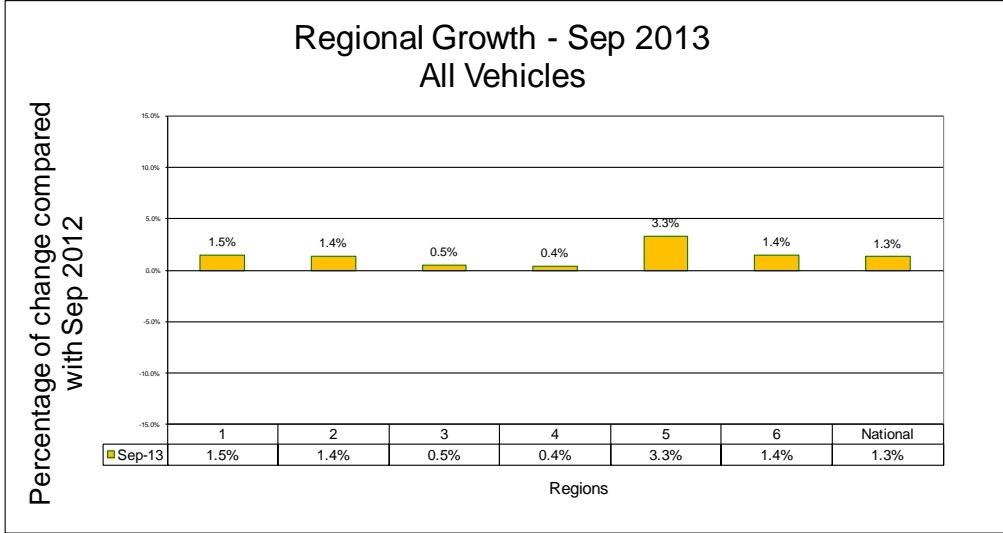
# Results: All Vehicles

**Regions**

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

The graph below shows the MADT change compared with the same month last year. The MADT values here represent all vehicle types.

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



**More graphs**

The graphs (as above) dated back to January 2008 are available from the NZTA website:  
<http://www.nzta.govt.nz/resources/state-highway-traffic-growth/>

**All sites**

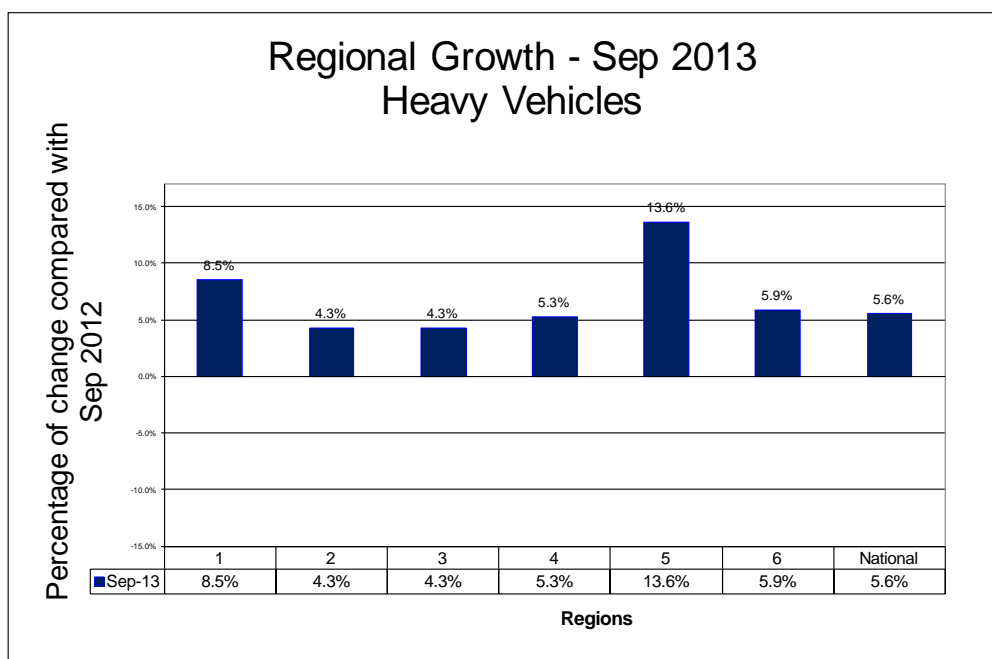
A table of MADT (all vehicles) values for the past thirteen months is attached to this report.

## Results: Heavy Vehicles

### Regions

Comparisons of heavy vehicle traffic across NZ Transport Agency regions as detailed below.

The graph shows the MADT change compared with the same month last year. The MADT values here represent heavy vehicles only.



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

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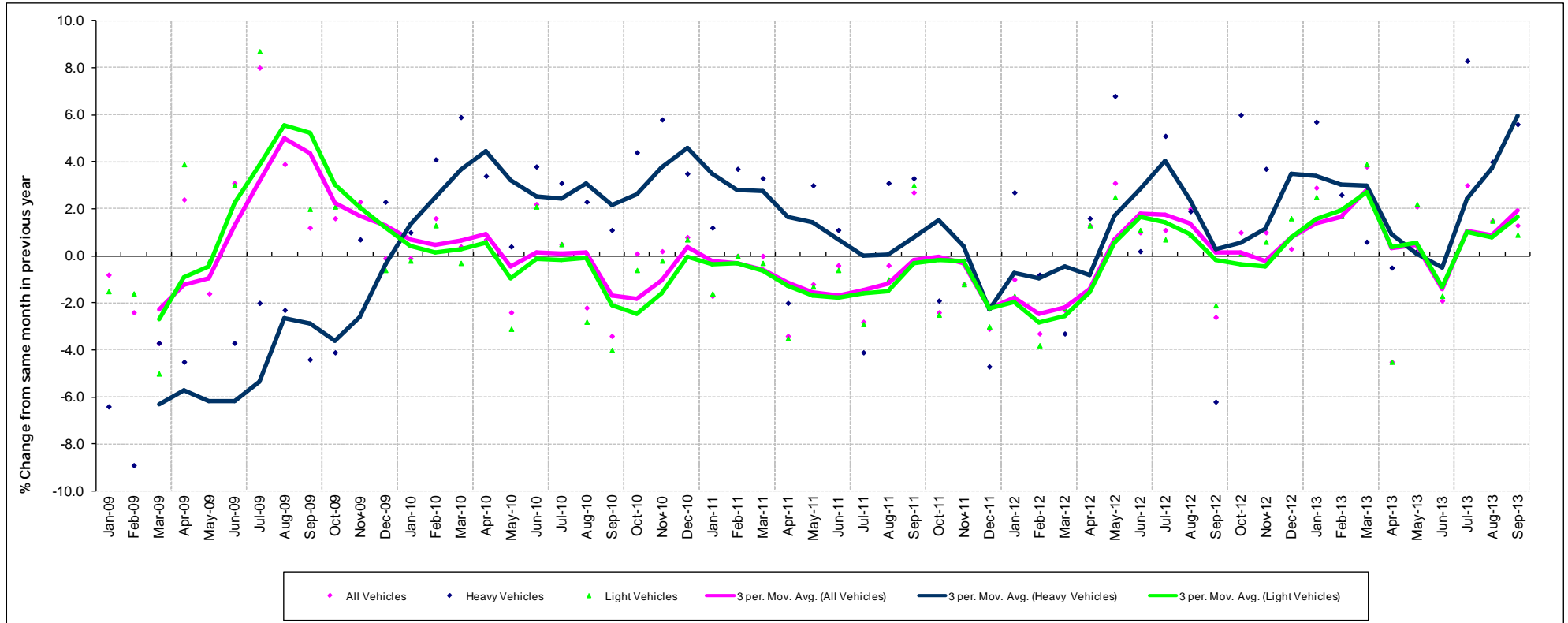
### All sites

A table of MADT (heavy vehicles) values for the past thirteen months is attached to this report.



# Summary of MADT Change from Same Month in Previous Year

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



Year	2009			2010			2011			2012			2013		
Month	All Vehicles	Light Vehicles	Heavy Vehicles	All Vehicles	Light Vehicles	Heavy Vehicles	All Vehicles	Light Vehicles	Heavy Vehicles	All Vehicles	Light Vehicles	Heavy Vehicles	All Vehicles	Light Vehicles	Heavy Vehicles
January	-0.8	-1.5	-6.4	-0.1	-0.2	1.0	-1.7	-1.6	1.2	-1.0	-1.7	2.7	2.9	2.5	5.7
February	-2.4	-1.6	-8.9	1.6	1.3	4.1	0.0	0.0	3.7	-3.3	-3.8	-0.8	1.7	1.7	2.6
March	-3.7	-5.0	-3.7	0.4	-0.3	5.9	0.0	-0.3	3.3	-2.3	-2.2	-3.3	3.8	3.9	0.6
April	2.4	3.9	-4.5	0.7	0.6	3.4	-3.4	-3.5	-2.0	1.3	1.3	1.6	-4.5	-4.5	-0.5
May	-1.6	-0.2	-10.3	-2.4	-3.1	0.4	-1.2	-1.3	3	3.1	2.5	6.8	2.1	2.2	0.2
June	3.1	3.0	-3.7	2.2	2.1	3.8	-0.4	-0.6	1.1	1	1.1	0.2	-1.9	-1.7	-1.2
July	8.0	8.7	-2.0	0.5	0.5	3.1	-2.8	-2.9	-4.1	1.1	0.7	5.1	3.0	2.5	8.3
August	3.9	5.0	-2.3	-2.2	-2.8	2.3	-0.4	-1.0	3.1	2.0	0.9	1.9	1.5	1.5	4.0
September	1.2	2.0	-4.4	-3.4	-4.0	1.1	2.7	3.0	3.3	-2.6	-2.1	-6.2	1.3	0.9	5.6
October	1.6	2.1	-4.1	0.1	-0.6	4.4	-2.4	-2.5	-1.9	1.0	0.1	6.0			
November	2.3	2.1	0.7	0.2	-0.2	5.8	-1.2	-1.2	-0.2	1.0	0.6	3.7			
December	-0.1	-0.6	2.3	0.8	0.7	3.5	-3.1	-3	-4.7	0.3	1.6	0.8			

## Appendices

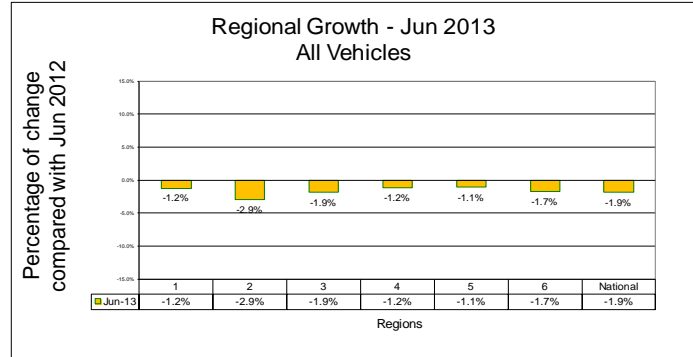
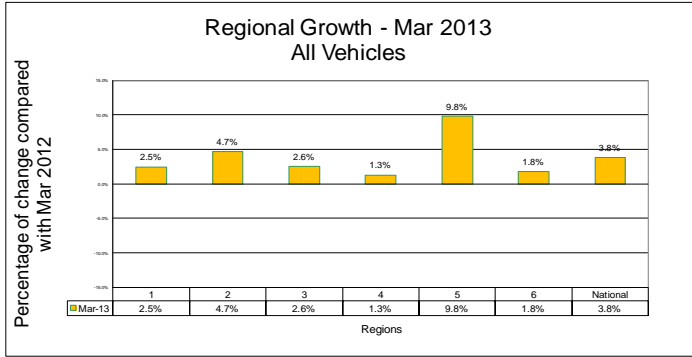
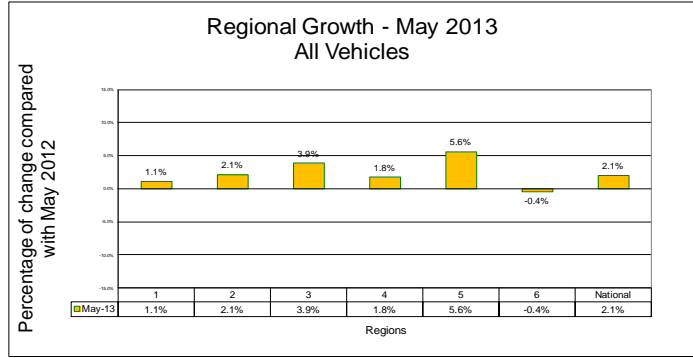
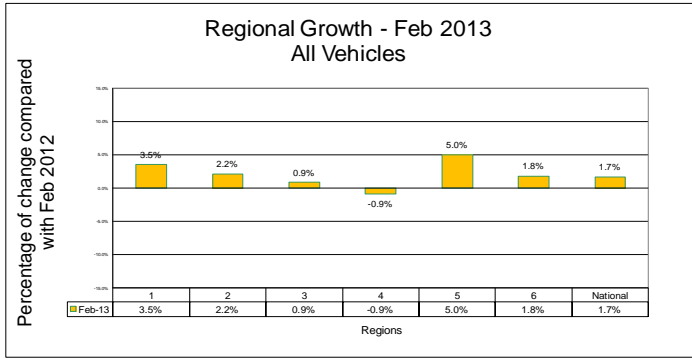
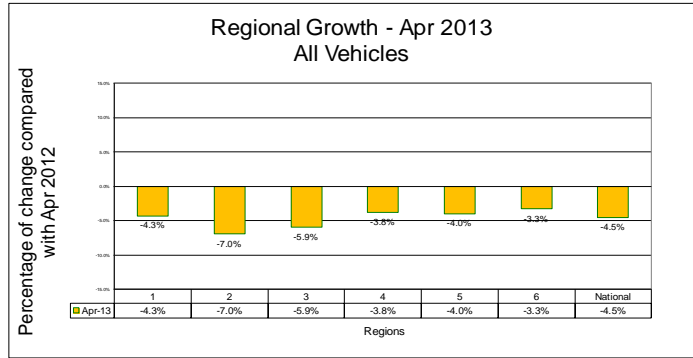
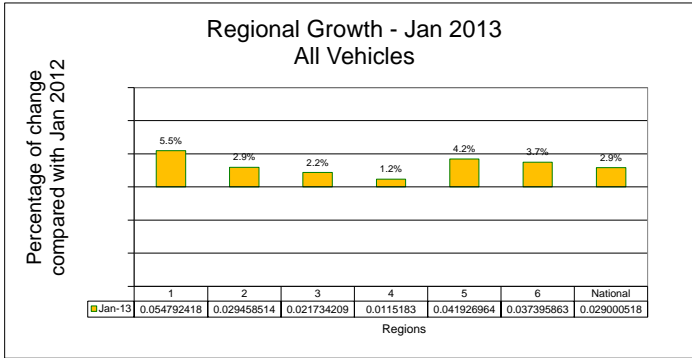
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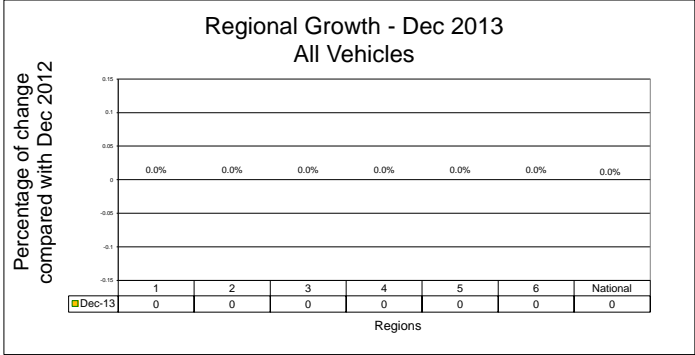
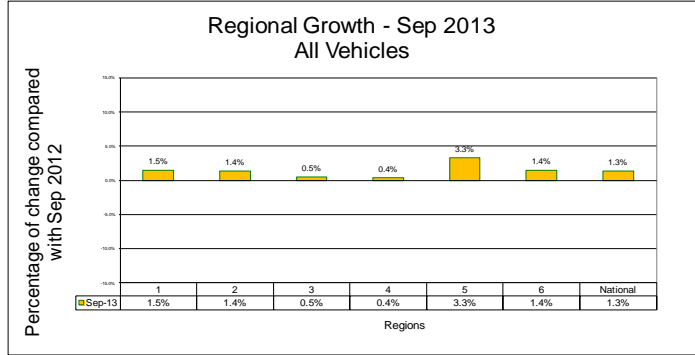
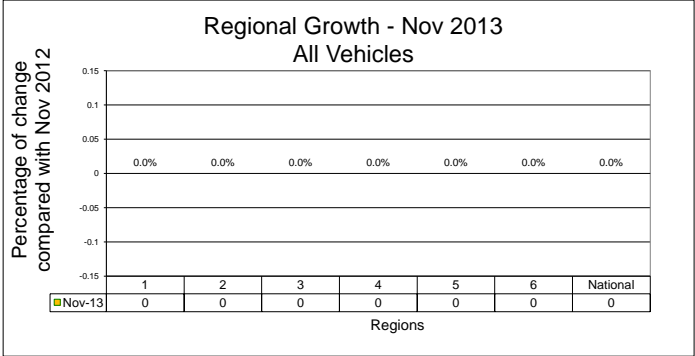
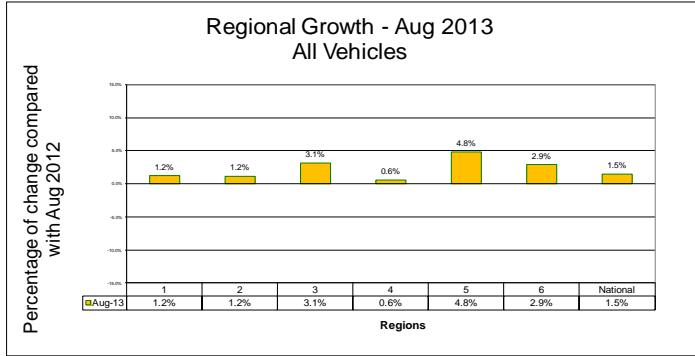
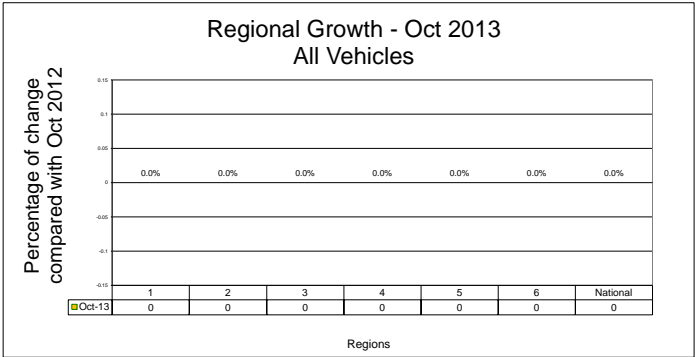
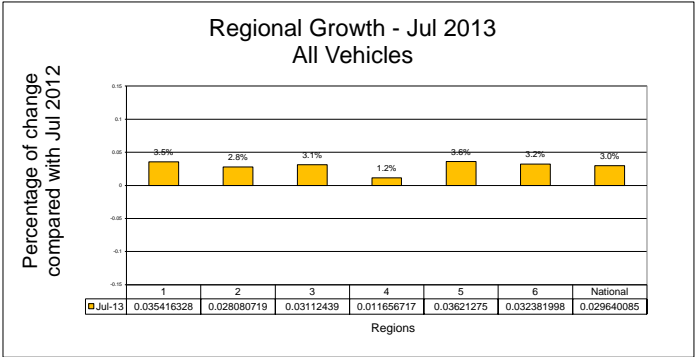
### Current Year Growth Graphs

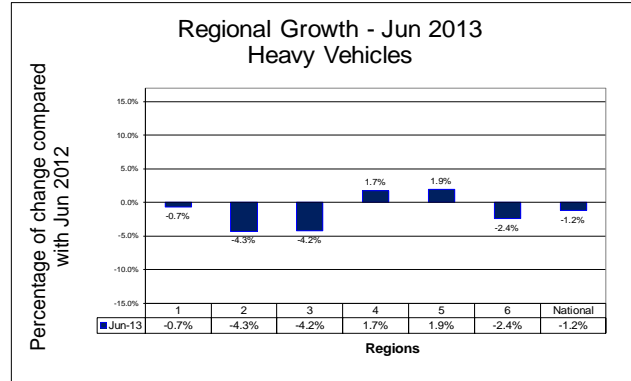
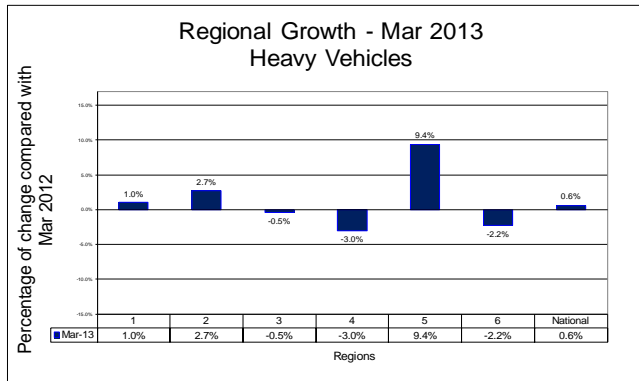
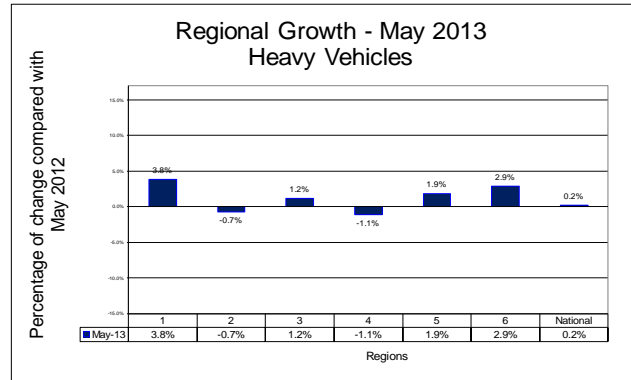
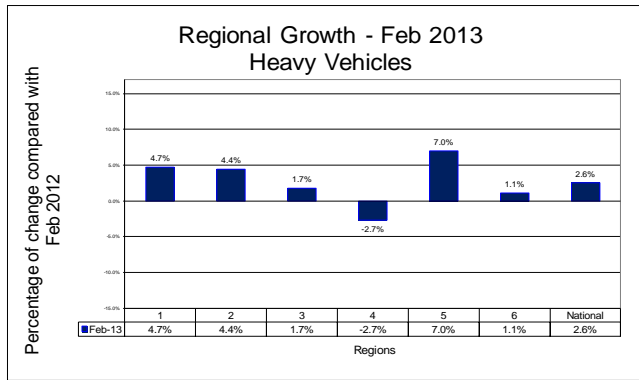
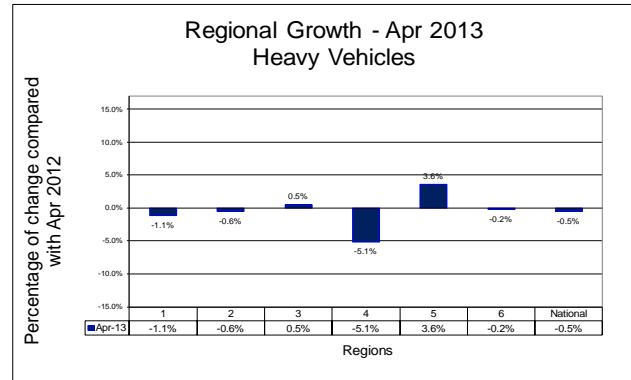
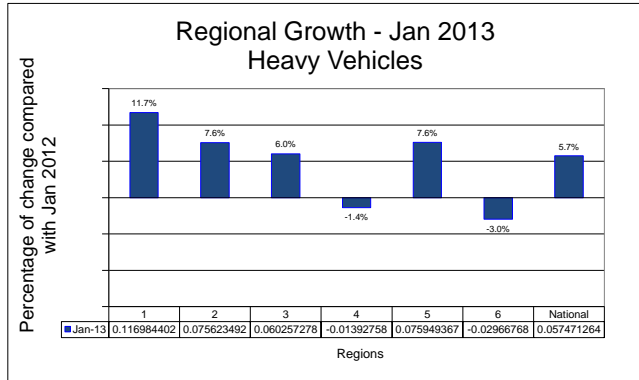
- All Vehicles
- Heavy Vehicles

### MADTs of the sample sites for the past thirteen months

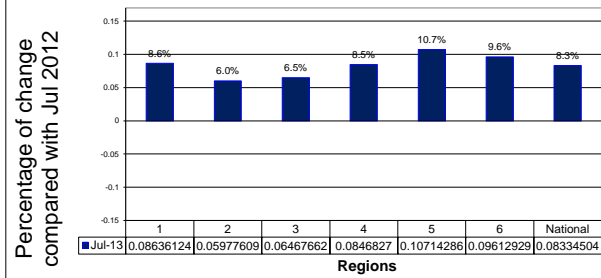
- All Vehicles
- Heavy Vehicles



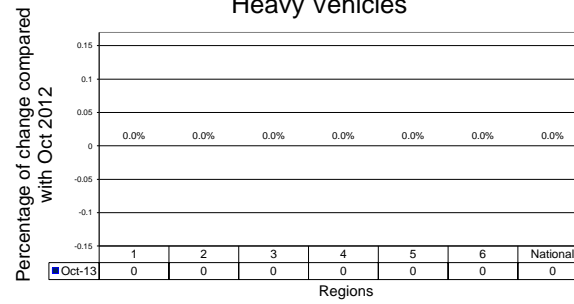




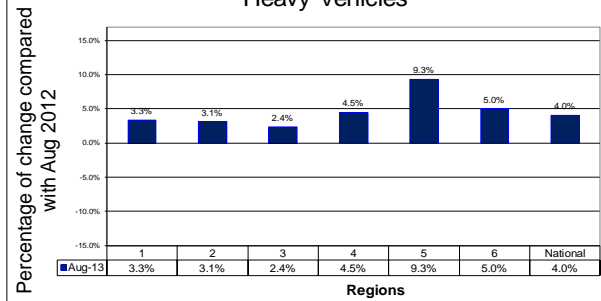
Regional Growth - Jul 2013  
Heavy Vehicles



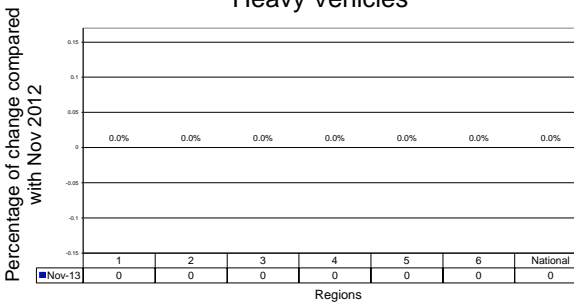
Regional Growth - Oct 2013  
Heavy Vehicles



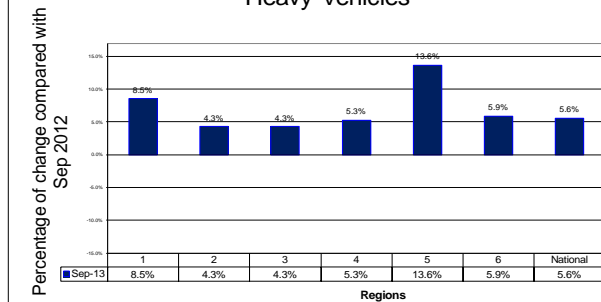
Regional Growth - Aug 2013  
Heavy Vehicles



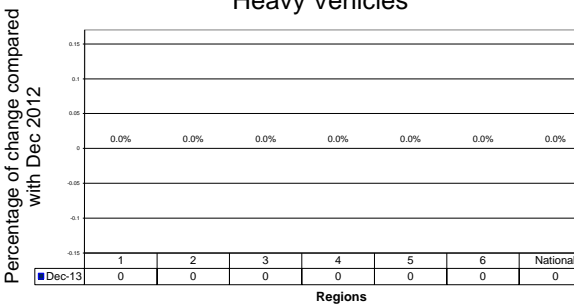
Regional Growth - Nov 2013  
Heavy Vehicles



Regional Growth - Sep 2013  
Heavy Vehicles



Regional Growth - Dec 2013  
Heavy Vehicles



MADT (All Vehicles)

NZTA Region	Site Ref	Description	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13
1	ID:01N00212	KAWAKAWA - Telemetry Site 18	5030	5944	6057	6595	7081	6383	6224	5696	5344	5037	5269	5013	5093
1	ID:01200026	KAIKOHE - Telemetry Site 102	1108	1205	1280	1379	1355	1292	1329	1178	1177	1128	1116	1103	1095
1	ID:01400016	MAUNGATAPERE - Telemetry Site 104	2390	2567	2626	2473	2451	2743	2601	2392	2549	2411	2439	2438	2403
1	ID:01N10459	DRURY - Telemetry Site 7 - SB (Park Estate)	27449	29536	30687	31579	30166	30810	30889	27816	29400	27764	29214	28749	28206
1	ID:01N20459	DRURY - Telemetry Site 7 - NB (Park Estate)	27100	29418	30431	30072	31351	30448	30003	28661	28229	27541	29018	28071	27871
1	ID:01N00336	WELLSFORD - Telemetry Site 17 - Nth of Mangawhai Rd	7501	8649	8455	9996	10796	9356	9019	8555	7908	7636	8002	7459	7471
1	ID:01N10440	PANAMA Rd - Telemetry Site 79 - SB	57282	61202		61155	60512	62132	60172		60974	59501	62206	62234	60140
1	ID:01N20440	PANAMA RD - Telemetry Site 79 - NB	54197	57939		55015	58421	58043		54517	52182	52877	56862	56596	55138
1	ID:01N10474	BOMBAY - Telemetry No Site 72 - SB	16268	18022	18460				19096	17320	16833	16568	17340	16485	16560
1	ID:01N20474	BOMBAY - Telemetry Site 72 - NB	16372	18113	18341				18554	17669	16636	16571	17150	16134	16297
1	ID:01N00388	ALPURT - Telemetry Site 95 (new late Dec 08)	13242	14543	14753	16869	18703	16289	15965	14652	13830	13541	14063	13355	13179
1	ID:01N00424	Auckland Harbour Brg - Centre Span - Telemetry Site 55	73041	74267	77134	74141	72902	75232	72910	72412	74762	70617	73827	73587	73878
1	ID:01N10424	Auckland Harbour Brg - Left Clip-on - Telemetry Site 55	41998	43002	45346	42274	40288	43422	41820	41259	42402	40178	41964	42168	42255
1	ID:01N20424	Auckland Harbour Brg - Right Clip-on - Telemetry Site 55	42230	42594	45244	44629	41422	44100	44449	42861	44024	41184	42972	43396	43380
1	ID:01600016	SH16 Royal Rd to Hobsonville Rd - local site	46195	47126	49953	46760	44469	48893	47626	46850	48095	45764	47542	46714	
1	ID:01810007	SH18 Upper Harbour Bridge WB - local site	17889	18223	19460	17532	16776	19244	18916	18723	19640	18634	19266	19439	19064
1	ID:01820007	SH18 Upper Harbour Bridge EB - local site	16887	17227	18235	16902	15911	18049	17703	17591	18324		18210	17887	
1	ID:02000006	SH20 Puhinui Rd to Massey Rd - local site	58565	59716	64574	59697	54980	62591	61675	60244	61706	59854	61459	62198	61725
2	ID:00200002	MAUNGATAWHIRI - Telemetry Site 74	11623	13279	13027	16393	17529	13947	14189	12953	11896	11523	12555	11669	11947
2	ID:25A00024	HIKUAE - Telemetry Site 76 - 1.3km after Kitahi Rd	2431	3142	3013	4239	5461	3688	3819	3120	2436	2434	2521	2267	2418
2	ID:02700011	KAIHERE - Telemetry Site 33	3826	4293	4337	4498	4434	4371	4429	4290	4024	3827	4097	3834	3948
2	ID:01N00526	TAUPIRI - Telemetry Site 19 - Nth of Gordonton Rd	19169	20681	21285	21749	19680	21258	21755	20346	20093	20034	20748	19933	19434
2	ID:01N00620	LICHFIELD - Telemetry Site 21 - Sth of Baldwin Rd	8428	9215	9382	9552	9715	9555	9210	8619	8150	8762	8406		
2	ID:00300085	TE KUITI - Telemetry Site 16 - Nth of 8 Mile Junction	3798	4018	3904	4280	4281	4175	4305	3976	3757	3736	4292	3899	3821
2	ID:03200074	West of Taupo - Telemetry Site 43	546	623	619	672	740	633	630	550	463	468	548	472	465
2	ID:01N00580	KARAPIRO - Telemetry Site 20		14340	14648	12820	15717	15604	15557	14110	13705	13884	13739	13236	13507
2	ID:00200091	WAIHI - Telemetry Site 34 - East of Samson Rd West	6670	7476	7488	8801	9556	8160	8376	7209	6701	6622	6889	6535	6585
2	ID:01N00729	HALLETT'S BAY - Telemetry Site 42	4550	5120	5045	5773	6501	5731	5287	4988	4399	4154	5116	4566	4594
2	ID:01N00628	TOKOROA - Telemetry Site 51 - (WIM Site)	7876	8727	8813	9090	9086	8916	8928	8259	7917	7595	8190	7815	7997
2	ID:01N90552	GREENWOOD - Telemetry Site 97 (New Oct 09)	22284	22882	24283	23055	22077	24083	23785	22834	24556	23506	24226	24065	23081
2	ID:00200141	TE PUNA - Telemetry Site 65 - West of Snodgrass	14940	16122	17184	17521	17661	17056	15544	16438	15478	15678	15577	15357	
2	ID:03010149	TE NGA - Telemetry Site 64 (Inc)	16203	17317	18086	17686	17610	18854	17800	16532	17249	16471	16693	16896	15955
2	ID:03020149	East end of Puarenga Brg (Dec) - Telemetry Site 64	16119	17294	18077	17456	17792	18892	17689	16597	17218	16467	16604	16813	15868
2	ID:00200204	OHINEPANEA - Telemetry Site 13 - West of Rogers Rd	4256	4799	4956	5275	5520	4878	4887	4480	4599	4364	4579	4505	4353
2	ID:03000188	LAKE ROTOMA - Telemetry Site 22	2515	2865	2826	3143	3478	3063	3009	2679	2676	2556	2622	2550	2530
2	ID:03300030	Sth of Maunqarangi Rd Paengaroa - Telemetry Site 14	3446	3852	3959	4204	4751	4324	4186	3673	3761	3511	3630	3477	3453
2	ID:00500034	TARUKENGA - Telemetry Site 15	4637	5131	5151	5560	5840	5723	5582	5263	4900	4854	4979	4631	4624
2	ID:02900034	KAIMAI - Telemetry Site 12	8212	9040	9276	9878	10024	9641	9770	9072	8810	8649	8690	8332	8538
2	ID:00500057	WAIIPA - Telemetry Site 41 - Sth of SH30	6530	7281	7397	8030	8129	7903	7630	7082	6842	6569	7058	6653	6603
2	ID:00200176	TE PUKE - Telemetry Site 49 - (WIM Site)	16553	17726	18790	18731	18690		18372	16901	18815	17674	17883	17629	16834
2	ID:00200242	AWAKERI - Telemetry Site 92	8102	8686	9173	9153	9056	8966	9076	8177	8934	8350	8542	8562	8335
2	ID:00210152	TAKITIMU DRIVE - Telemetry Site 105 - Inc	14664	15120	16235	15979	15411	16213	15881	15333	15870	15036	15474	15551	14939
2	ID:00220152	TAKITIMU DRIVE - Telemetry Site 105 - Dec	15614	16186	17362	16624	16521	17190	16751	16320	16800	15924	16436	16573	15879
3	ID:00200428	ORMOND - Telemetry Site 26	2087	2306	2332	2573	2459	2571	2493	2224	2310	2135		2164	2071
3	ID:03500321	HAMANATUA BRIDGE - Telemetry Site 108 WIM	4081	4482	4538	5582	5553	4765	4576	4226	4277	3947	3928	3871	3801
3	ID:00200627	TANGOIO - Telemetry Site 24	1740	2032	2012	2278	2340	2218	2171	1962	1976	1780	1805	1714	1753
3	ID:00500230	TE POHUE - Telemetry Site 23	2345	2705	2666	3026	3308	3250	2959	2739	2370	2272	2579	2175	2367
3	ID:00500259	ESKDALE - Telemetry Site 101 - (WIM Site)	3228	3670	3621	3964	4195	4175	3572	3247	3072	3217	3020	3191	
3	ID:05000010	Nth of Tutaekuri River (Telemetry Site 58)	20334	21721	22966	22079	21642	23129	22808	21380	22938	21453	21607	21621	20994
3	ID:00300171	TONGAPORUTU Brg - Telemetry Site 78	1777	2023	2083	2288	2438	2209	2361	2187	1876	1942	1904	1743	1849
3	ID:00300267	TARIKI - Telemetry Site 6	8088	8814	9359	9037	8810	9025	9242	8485	8946	8582	8754	8615	8355
3	ID:00300370	WAITOTARA - Telemetry Site 5	3295	3596	3689	3784	3690	3691	3897	3357	3444		0	3488	3601
3	ID:04500101	OHAWE BEACH Rd - Telemetry Site 71	3587	3952	4116	4037	3976	3945	3825	3405	3624	3378	3453	3671	3706
3	ID:01N00930	SANSON - Telemetry Site 38		11994	12163	12856	12590	12675	12712	11589	11611	10728	11454	11233	11025
3	ID:01N00988	OHAU - Telemetry Site 56	13319	14291	14546	15526	15570	15462	15396	13959	13979	13183	13790	13539	13254
3	ID:00200755	NORSEWOOD - Telemetry Site 25	3295	3850		4358	4513	4298	4308	3732	3545	3248	3432	3228	3273
3	ID:00300489	MANAWATU GORGE - Telemetry Site 30	4176	5737	6116	6615	6620	6798	6828	6038	6212	5796	6059	5961	5774
3	ID:00400133	HOROPITO - Telemetry Site 37	2008	1918	1586	1733	1987	1797	1845	1571	1431		2412	2097	1970
3	ID:00400226	UPOKONGARO - Telemetry Site 28	1642	1778	1887	2036	2065	2003	1986	1856	1697	1669	1774	1752	1738
3	ID:01N00827	HIHITAIHI - Telemetry Site 29	3926	4571	4333	4785	5495	4802	4584	4343	3789	3562	4192	3816	3922
3	ID:05400049	FIELDING - Telemetry Site 106	6278	6393	6968	6367	5798	6623	6673	6225	6814	6395	6502	6532	6201
3	ID:05700014	SHANNON - Telemetry Site 107	7009	7322	7598	7676	7276	7909	7752	7209	7592	7172	7207	7259	7032

Note: There are some new sites added and some sites removed since 2013.



MADT (All Vehicles)

NZTA Region	Site Ref	Description	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13
4	ID:01N11068	NGAURANGA (SH1 - Telemetry Site 3 - SB)	20924	21618	22201	20869	19834	21633	21384	20562	22266	20752	21433	21556	20712
4	ID:00200895	CLAREVILLE - Telemetry Site 80 - Nth of Whites Line	9951	10614	11144	11038	10813	11240	11016	10164	10608	9954	9999	10374	9939
4	ID:00200937	RIMUTAKA - Telemetry Site 01 - Pukuratahi River Brg	4940	5531	5748	6204	6448	6208	6356	5463	5233	4943	5050	4997	5010
4	ID:01N01036	PUKERUA BAY - Telemetry Site 47		22791	23595	24314	23351	24258	23941	22041	22775	21713	22464	22225	21231
4	ID:01N21068	NGAURANGA (SH1 - Telemetry Site 4 - NB)	21429	22237	23337	21521	20039	22216	22244	22244	23307	21636	21996	22446	21397
4	ID:05800009	Pauatahanui East (Telemetry Site 73)	12978	13602	14229	13870	13048	14304	14247	13151	13975	13106	13512	13680	13028
4	ID:00210979	NGAURANGA (SH2 - Telemetry Site 4 - Sth Bound Lanes)	20063	21375	22248	20305	18969	21836	21369	20493	22340	20683	21157	21451	20663
4	ID:00220979	NGAURANGA (SH2 - Telemetry Site 4 - Nth Bound Lanes)	20194	21278	22208	20163	18788	21398	20841	22339	20601	21010	21415	20480	
4	ID:00210965	KELSON - Telemetry Site 99 - SB	16896	17284		16665	15977	17710	17268	16356	17529	16412	16905	16972	16869
4	ID:00220965	KELSON - Telemetry Site 99 - NB	16384	16702		16133	15134	16936	16664	15776	17025	16036	16459	16500	16305
4	ID:00600122	STOKE - Telemetry Site 81	19474	20973	22573	22366	22556		21774	20553	21902	20482	21009	20992	20333
4	ID:00600232	MURCHISON - Telemetry Site 35	1340	1689	1781	2021	2377	2239	2013	1739	1481	1211	1318	1296	
4	ID:00600100	HIRA - Telemetry Site 36	2741	3162	3313	3504	3941	3814	3675	3024	2873	2649	2707	2638	2713
4	ID:06000040	SH60 Riwaka Telemetry Site 86	2481	3149	3666	5300	5661	4984	4274	3280	2920	2613	2524	2388	2554
4	ID:01S00037	Blenheim Telemetry Site 87	3101	3461	3613	3997	4319	4006	3932	3948	3416	3201	3455	3294	3208
4	ID:06300096	ST ARNAUD - Telemetry Site 93		299	352	347	430	449	422	323	257	226		220	217
4	ID:06000006	RICHMOND - Telemetry Site 112	8832	9491	10214	11055	11582	10930	10493	9228	9524	8838	8799	8902	8839
5	ID:01S00389	DUNSANDEL - Telemetry Site 68 (LTSA)	9551	10512	11037	11481	11333	11358	11470	10592	10087	9275	10238	9800	10134
5	ID:01S00505	EVANS St Timaru - Telemetry Site 69	19095	20780	20477	21585	19619		19714	18957	19805	18708	19550	19501	19092
5	ID:07300064	Springfield - West of Township - Telemetry Site 11	1433	1451	1577	1733	1919	1920	1839	1600	1271	1214	1504	1455	1477
5	ID:01S00144	KAIKOURA - Telemetry Site 9 - Nth of Hapuku River	1924	2489	2486	2814	3364	2915	2772	2533	2088	1888	2011	1740	1934
5	ID:01S00522	ST ANDREWS - Telemetry Site 31	5298	5966	6088	6399	6262	6308	6340	6010	5715	5090	5494	5389	5567
5	ID:00700108	LEWIS PASS - Telemetry Site 32	886	1207	1115	1320	1630	1362	1282	1182	928	805	893	850	883
5	ID:01S00285	WAIPARA - Telemetry Site 52 - (WIM Site)	6535	7857	7578	8619	8863	8252	7992					6642	
5	ID:01S10327	WAIMAKARIRI BRIDGE - Telemetry site 96 SB	21057	22265	22959	22313	22168	23149	22692	21611	22522	20277	22852	22279	21699
5	ID:01S20327	WAIMAKARIRI BRIDGE - Telemetry site 96 NB	20122	21336	21901	21872	20904	22088	22179	20520	21858	20035	22247	21519	21059
5	ID:00800059	FAIRLIE - Telemetry Site 98 (New Dec 09)	1920		2297	2822	3161	2764	2689	2410	1813	1697	2022	2084	2104
5	ID:07409025	LYTTLETON TUNNEL - Telemetry Site 114	9496	9841	10352	10144	10444	10764	10544	9775	9990	9361	9686	9936	9833
5	ID:00600454	CHESTERFIELD - Telemetry Site 70	2461	2839	3087	3141	3104	3290	3167	2762	2606	2312	2431	2492	2560
5	ID:00700239	AHAURA - Telemetry Site 40	1116	1256	1304	1288	1332	1375	1340	1178	1138	1014	1081	1071	
5	ID:00600398	PUNAKAIKI - Telemetry Site 39	744	893	1061	1114	1212	1297	1142	896	729	608	644	672	693
5	ID:00600753	HAAST - Telemetry Site 111	703	927	1005	1019	1157	1297	1172	841	535	395	457	506	594
6	ID:00600895	WANAKA - Telemetry Site 109	2755	3008	3068	3603	4319	3533	3536	3185	2688	2491	2919	2921	2790
6	ID:00800263	TARRAS - Telemetry Site 110	1126	1295	1322	1820	2230	1716	1890	1563	1077	969	1187	1210	1257
6	ID:00800336	ALEXANDRA - Telemetry Site 44	1982	2092	2116	2417	2719	2433	2383	2196	1905	1709	1881	1993	1929
6	ID:01S10713	BURNSIDE - Telemetry Site 63 - Sth Bound	14866	15360	16413	15596	14220	16157	15564	15315	15760	15201	15623	15784	15175
6	ID:01S20713	BURNSIDE - Telemetry Site 63 - Nth Bound	10258	10640	11334	10755	9912	11229	10974	10830	11019	10589	10894	10882	10484
6	ID:01S50713	BURNSIDE - Telemetry Site 63 - On Ramp - Nth Bound	2366	2503	2667	2508	2342	2560	2475	2439	2535	2427	2532	2473	
6	ID:01S60713	BURNSIDE - Telemetry Site 63 - Off Ramp - Sth Bound	3015	3051	3279	3018	2857	3220	3303	2969	3122	2955	3125	3134	3012
6	ID:01S40713	BURNSIDE - Telemetry Site 63 - Off Ramp - Nth Bound	3177	3150	3387	3132	2934	3365	3210	3059	3259	3152	3228	3261	3117
6	ID:01S40714	Burnside - Nth Bound Off Ramp - Telemetry Site 63	2090	2090	2262	2067	1980	2215	2114	1999	2115	1994	2118	2141	2058
6	ID:01S00765	MILTON - Telemetry Site 27	5633	6067	6377	6488	6370	6668	6653	6350	5937	5350	5670	5587	5416
6	ID:06A00001	FRANKTON - Telemetry Site 90	16619	17194	18349	19471	19694	20129	19449	18083	16397	16678	19084	19943	17545
6	ID:08S00161	GALLOWAY - Telemetry Site 89	1765	1875	1985	2186	2313	2126	2004	1906	1869	1659	1749	1870	1798
6	ID:08800004	RAVENSBOURNE - Telemetry Site 88	8190	8488	9101	8816	7989	9296	8961	8473	8494	8146	8314	8499	8703
6	ID:08300063	KUROW - Telemetry Site 113	796	968	985	1433	1483	1219	1144	932	728	645	703	733	794
6	ID:01S00921	JNVERCARGILL - Telemetry Site 62	10695	11003	11848	10841	9829	11598	11582	11244	11411	10806	10867	11218	10194
6	ID:00601147	WINTON - Telemetry Site 46	4195	4605	5090	4882	4524	4999	4903	4629	4786	4360	4478	4640	4352
6	ID:00601082	FIVE RIVERS - Telemetry Site 91	1382	1687	1938	2520	2527	2458	2244	2058	1447	1245	1367	1380	1402
6	ID:01S00854	GORE - Telemetry Site 45	3555	3928	4247	4216	4048	4327	4201	3969	3895	3528	3706	3714	3596
6	ID:09400141	TE ANAU - Telemetry Site 94	709	885	1184	1486	1550	1679	1558	1216	749	541	644	687	740

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# MADT (Heavy Vehicles)

NZTA Region	Site Ref	Description	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13
1	ID:01N00212	KAWAKAWA - Telemetry Site 18	615	749	773	710	793	773	753	669	683	592	627	619	644
1	ID:01200026	KAIKOHE - Telemetry Site 102	52	53	55	55	56	66	70	55	51	42	44	44	44
1	ID:01400016	MAUNGATAPERE - Telemetry Site 104	270	311	292	245	285	331	315	283	291	251	294	294	299
1	ID:01N10459	DRURY - Telemetry Site 7 - SB (Park Estate)	2241	2520	2763	2562	2578	2722	2717	2484	2743	2343	2493	2472	2432
1	ID:01N20459	DRURY - Telemetry Site 7 - NB (Park Estate)	2090	2410	2641	2399	2523	2606	2607	2455	2573	2274	2405	2351	2309
1	ID:01N00336	WELLSFORD - Telemetry Site 17 - Nth of Mangawhai Rd	811	981	1000	972	1059	1043	961	911	938	829	892	870	881
1	ID:01N10474	BOMBAY - Telemetry No Site 72 - SB	1901	2101	2314				2151	2021	2152	1958	2063	2001	1973
1	ID:01N20474	BOMBAY - Telemetry Site 72 - NB	1906	2118	2322				2061	1923	1997	1773	1854	1814	1789
1	ID:01N00388	ALPURT - Telemetry Site 95	1064	1238	1308	1306	1411	1362	1302	1179	1184	1060	1128	1060	1065
1	ID:01600016	SH16 Royal Rd to Hobsonville Rd	1970	2217	2412	1947	1920	2372	2440	2306	2165	1959	2067		2071
1	ID:01810007	SH18 Upper Harbour Bridge WB	678	749	830	694	882	1263	1225	1726	1746		994	1119	1252
1	ID:01820007	SH18 Upper Harbour Bridge EB	581	632	687	577	551	646	634	644				632	637
1	ID:02000006	SH20 Puhinui Rd to Massey Rd	3269	3524	4124	3450	4004	3961	3818	3629	4673	3658	4044	3847	3930
2	ID:00200002	MAUNGATAWHIRI - Telemetry Site 74	1526	1708	1847	1307	1770	1912	1802	1682	1748	1521	1622	1651	1611
2	ID:25A00024	HIKUAE - Telemetry Site 76 - 1.3km after Kitahi Rd	266	307	294	348	396	303	298	242	212	198	215	197	222
2	ID:02700011	KAIHERE - Telemetry Site 33	809	924	998	858	855	976	963	911	915	788	806	853	855
2	ID:01N00526	TAUPIRI - Telemetry Site 19 - Nth of Gordonton Rd	2060	2324	2392	2350	2194	2355	2305	2152	2233	2006	2108	2148	2119
2	ID:01N00620	LICHFIELD - Telemetry Site 21 - Sth of Baldwin Rd	1395	1573	1680	1429	1339	1589		1506	1465	1256	1339	1431	
2	ID:00300085	TE KUITI - Telemetry Site 16 - Nth of 8 Mile Junction	613	701	766	672	684	818		756	723	600	676	627	662
2	ID:03200074	West of Taupo - Telemetry Site 43	67	80	80	74	76	82	91	67	63	60	57	52	52
2	ID:01N00580	KARAPIRO - Telemetry Site 20		1581	1761	1775	1795	1892	1832	1466	1482	1249	1341	1399	1409
2	ID:00200091	WAIHI - Telemetry Site 34 - East of Samson Rd West	744	812	880	829	878	887	882	786	807	693	740	729	737
2	ID:01N00729	HALLETS BAY - Telemetry Site 42	686	798	881	773	833	897	827	764	772	693	700	732	731
2	ID:01N00628	TOKOROA - Telemetry Site 51 - (WIM Site)	1483	1670	1742	1488	1414	1612	1625	1426	1450	1298	1363	1462	1510
2	ID:01N90552	GREENWOOD - Telemetry Site 97	1649	1749	1896	1671	1656	1832	1775	1709	1858	1705	1805	1801	1745
2	ID:00200141	TE PUNA - Telemetry Site 65 - West of Snodgrass	1123	1210	1276	1120	1203		1208	1167	1291	1093	1113	1103	1102
2	ID:03010149	TE NGA - Telemetry Site 64	968	1064	1165	1033	1069	1223	1092	941	1024	927	934	969	923
2	ID:03020149	East end of Puarenga Brg (Dec) - Telemetry Site 64	1025	1128	1233	1064	1133	1312	1167	1034	1097	981	958	998	957
2	ID:00200204	OHINEPANEA - Telemetry Site 13 - West of Rogers Rd	713	826	854	737	761	770	716	681	742	654	742	715	783
2	ID:03000188	LAKE ROTOMA - Telemetry Site 22	324	362	366	344	379	372	358	347	344	291	302	332	329
2	ID:03300030	Sth of Maungarangi Rd Paengaroa - Telemetry Site 14	510	592	649	565	630	707	708	584	634	555	577	583	581
2	ID:00500034	TARUKENGA - Telemetry Site 15	529	630	683	619	641	704	676	639	605	529	545	562	562
2	ID:02900034	KAIMAI - Telemetry Site 12	1181	1391	1487	1355	1337	1533	1505	1387	1427	1153	1210	1231	1277
2	ID:00500057	WAIWA - Telemetry Site 41 - Sth of SH30	825	936	960	686	853	965	947	865	898	792	833	855	862
2	ID:00200176	TE PUKE - Telemetry Site 49 - (WIM Site)	1689	1936	2129	1695	1764		1936	1845	2156	1908	1916	1927	1896
2	ID:00200242	AWAKERI - Telemetry Site 92	647	729	800	689	746	794	830	675	769	605	611	625	657
2	ID:00210152	TAKITIMU DRIVE - Telemetry Site 105 - Inc	1062	1170	1278	1114	1116	1287	1269	1238	1267	1074	1147	1133	1099
2	ID:00220152	TAKITIMU DRIVE - Telemetry Site 105 - Dec	1072	1179	1270	1095	1113	1264	1229	1234	1265	1089	1165	1150	1118
3	ID:00200428	ORMOND - Telemetry Site 26	229	258	256	252	265	320	332	307	281	270		217	204
3	ID:03500321	HAMANATUA BRIDGE - Telemetry Site 108 WIM	505	566	595	465	461	588	552	500	538	446	492	461	429
3	ID:00200627	TANGOIO - Telemetry Site 24	326	393	412	371	410	455	444	396	424	346	356	337	317
3	ID:00500230	TE POHUE - Telemetry Site 23	492	584	669	552	602	594	518	491	503	396	452	441	488
3	ID:00500259	ESKDALE - Telemetry Site 101 - (WIM Site)	596	673	684	572	598	683		637	644	546	566	578	620
3	ID:05000010	Nth of Tutaeakuri River (Telemetry Site 58)	1252	1396	1510	1318	1423	1613	1635	1543	1637	1379	1367	1267	1282
3	ID:00300171	TONGAPORUTU Brg - Telemetry Site 78	381	428	474	408	447	454	454	472	440	366	384	387	422
3	ID:00300267	TARIKI - Telemetry Site 6	975	1056	1136	1012	1053	1075	1092	987	1001	816	901	949	1036
3	ID:00300370	WAITOTARA - Telemetry Site 5	572	661	725	648	606	637	640	612	617			677	685
3	ID:04500101	OHAWA BEACH Rd - Telemetry Site 71	563	633	641	574	543	505	455	344	328	252	279	428	594
3	ID:01N00930	SANSON - Telemetry Site 38		1568	1733	1591	1566	1672	1675	1518	1587	1298	1332	1469	1464
3	ID:01N00988	OHAU - Telemetry Site 56	1301	1432	1561	1396	1433	1558	1528	1392	1467	1299	1355	1377	1360
3	ID:00200755	NORSEWOOD - Telemetry Site 25	527	630		604	657	690	688	580	564	475	501	493	527
3	ID:00300489	MANAWATU GORGE - Telemetry Site 30	487	683	793	723	758	843	837	750	772	673	700	701	679
3	ID:00400133	HOROPITO - Telemetry Site 37	260	264	300	267	304	320	312	266	280		318	254	250
3	ID:00400226	UPOKONGARO - Telemetry Site 28	127	148	164	158	170	175	171	159	148	132	148	145	137
3	ID:01N00827	HIHITAHU - Telemetry Site 29	815	962	1062	894	992	1054	996	925	931	830	880	854	866
3	ID:05400049	FIELDING - Telemetry Site 106	236	244	277	236	225	271	284	249	267	219	219	223	217
3	ID:05700014	SHANNON - Telemetry Site 107	602	665	732	661	665	744	707	638	682	641	648	662	663

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## MADT (Heavy Vehicles)

NZTA Region	Site Ref	Description	Sep- 12	Oct- 12	Nov- 12	Dec- 12	Jan- 13	Feb- 13	Mar- 13	Apr- 13	May- 13	Jun- 13	Jul- 13	Aug- 13	Sep- 13
4	ID:01N11068	NGAURANGA (SH1 - Telemetry Site 3 - SB)	620	646	699	608	611	679	651	606	655	596	649	661	628
4	ID:00200895	CLAREVILLE - Telemetry Site 80 - Nth of Whites Line	557	669	680	603	602	678	678	595	572	484	541	556	585
4	ID:00200937	RIMUTAKA - Telemetry Site 01- Pukuratahi River Brg	280	332	361	345	354	390	381	337	307	263	281	289	294
4	ID:01N01036	PUKERUA BAY - Telemetry Site 47		1843	2116	1912	1758	1943	1872	1792	1843	1724	1850	1861	1800
4	ID:01N21068	NGAURANGA (SH1 - Telemetry Site 4 - NB)	559	606	661	565	556	631	622		717	601	648	658	626
4	ID:05800009	Pauatahanui East (Telemetry Site 73)	508	547	592	564	534	607	603	574	577	452	489	515	466
4	ID:00210979	NGAURANGA (SH2 - Telemetry Site 4 - Sth Bound Lanes)	641	701	735	624	630	701	679	672	698	653	689	701	698
4	ID:00220979	NGAURANGA (SH2 - Telemetry Site 4 - Nth Bound Lanes)	699	767	813	699	699	760	733		797	878	929	933	916
4	ID:00210965	KELSON - Telemetry Site 99 - SB	650	699		609	598	726	706	662	698	660	683	676	677
4	ID:00220965	KELSON - Telemetry Site 99 - NB	608	670		621	594	707	693	650	671	621	653	640	642
4	ID:00600122	STOKE - Telemetry Site 81 - Whakatu Drive at Songer St	1130	1272	1433	1197	1375		1379	1330	1509	1260	1320	1203	1209
4	ID:00600232	MURCHISON - Telemetry Site 35	235	275	314	283	361	357	318	281	273	214	222	234	
4	ID:00600100	HIRA - Telemetry Site 36	445	511	523	479	505	548	526	449	461	386	422	420	431
4	ID:06000040	SH60 Riwaka Telemetry Site 86	170	219	288	248	273	281	271	224	251	208	158	161	179
4	ID:01S00037	Blenheim Telemetry Site 87	491	571	602	565	611	624	632	754	598	484	512	541	538
4	ID:06300096	ST ARNAUD - Telemetry Site 93		38	53	37	43	48	47	37	37	28		29	27
5	ID:01S00389	DUNSANDEL - Telemetry Site 68 (LTSA)	1357	1565	1700	1608	1705	1764	1719	1591	1511	1225	1342	1357	1543
5	ID:01S00505	EVANS St Timaru - Telemetry Site 69	1363	1629	1478	1400	1309		1090		1419	1285	1422	1494	1642
5	ID:07300064	Springfield - West of Township - Telemetry Site 11	167	201	226	203	240	260	239	215	194	141	165	206	221
5	ID:01S00144	KAIKOURA - Telemetry Site 9 - Nth of Hapuku River	435	511	542	467	535	545	513	507	495	401	421	411	461
5	ID:01S00522	ST ANDREWS - Telemetry Site 31	870	1014	1020	973	1037	1076	1078	979	928	714	765	864	997
5	ID:00700108	LEWIS PASS - Telemetry Site 32	147	191	198	193	255	226	207	198	175	147	155	160	155
5	ID:01S00285	WAIKOURA - Telemetry Site 52 -(WIM Site)	1035	1207	1258	1228	1281	1326	1404					967	
5	ID:01S10327	WAIMAKARIRI BRIDGE - Telemetry site 96 SB	1440	1598	1680	1472	1555	1672	1601	1508	1534	1274	1517	1502	1539
5	ID:01S20327	WAIMAKARIRI BRIDGE - Telemetry site 96 NB	1229	1359	1424	1327	1287	1410	1401	1273	1301	1102	1312	1284	1321
5	ID:07409025	LYTTLETON TUNNEL - Telemetry Site 114	1408	1581	1630	1458	1588	1600	1640	1654	1581	1381	1580	1614	1656
5	ID:00800059	FAIRLIE - Telemetry Site 98	205		314	349	381	361	330	302	234	165	179	188	236
5	ID:00600454	CHESTERFIELD - Telemetry Site 70	309	388	429	380	377	390	343	308	279	186	222	246	351
5	ID:00700239	AHAURA - Telemetry Site 40	183	223	236	194	209	226	197	166	160	127	139	150	
5	ID:00600398	PUNAKAIKI - Telemetry Site 39 - Just Nth of Canoe Creek	101	113	131	115	115	123	109	86	72	61	56	64	86
6	ID:00800336	ALEXANDRA - Telemetry Site 44 - Sth Near Butchers Dam	182	200	223	226	266	247	228	217	213	163	184	203	187
6	ID:01S10713	BURNSIDE - Telemetry Site 63 - Sth Bound	753	816	927	812	803	960	903	872	876	741	796	803	807
6	ID:01S20713	BURNSIDE - Telemetry Site 63 - Nth Bound	580	633	726	627	613	737	724	713	726	595	645	645	655
6	ID:01S50713	BURNSIDE - Telemetry Site 63 - On Ramp - Nth Bound	112	126	140	120	117	134	128	126	128	109	119	120	122
6	ID:01S60713	BURNSIDE - Telemetry Site 63 - Off Ramp - Sth Bound	180	195	212	187	184	209	211	202	204	175	198	201	195
6	ID:01S40713	BURNSIDE - Telemetry Site 63 - Off Ramp - Nth Bound	120	130	142	128	130	158	144	138	138	112	135	134	122
6	ID:01S40714	Burnside - Nth Bound Off Ramp - Telemetry Site 63	73	72	78	68	69	80	74	73	76	64	71	78	71
6	ID:01S00765	MILTON - Telemetry Site 27	730	844	964	839	820	881	864	854	799	627	645	656	707
6	ID:06A00001	FRANKTON - Telemetry Site 90	765	806	946	949	969	1044	978	888	734	668	810	871	784
6	ID:08500161	GALLOWAY - Telemetry Site 89	104	113	134	126	138	143	138	135	137	100	107	134	117
6	ID:08800004	RAVENSBOURNE - Telemetry Site 88	407	457	613	565	467	624	559	483	498	419	427	416	462
6	ID:01S00921	INVERCARGILL - Telemetry Site 62	386	407	427	347	327	383	400	395	369	344	351	368	347
6	ID:00601147	WINTON - Telemetry Site 46	390	466	540	468	463	510	494	459	452	333	386	422	425
6	ID:00601082	FIVE RIVERS - Telemetry Site 91	137	177	231	242	250	263	238	221	168	119	137	164	146
6	ID:01S00854	GORE - Telemetry Site 45	438	513	590	527	517	560	522	512	487	361	372	444	461
6	ID:09400141	TE ANAU - Telemetry Site 94	72	96	147	154	155	201	180	151	94	59	61	73	73

Note: There are some new sites added and some sites removed since 2013.