



Traffic Volumes Monthly Report February 2012



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Quality Assurance Statement

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Revision Schedule										
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1	8/03/2012	Final	Gerald Wen	Philip Blagdon						

Summary The purpose of this document is to report on the monthly changes in traffic volumes on the state highway. This report also covers annual state highway traffic trends for the period of 1989 to 2012.

In February 2012, compared with February 2011, the monthly average daily traffic (MADT) for all vehicles decreased by 3.3%; the MADT for heavy vehicles remained at a similar level.

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Technical Notes

What is MADT and AADT	Monthly Average Daily Traffic (MADT) is the average of daily traffic volume measured in a given month. 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.							
Purpose	Monthly Average Daily Traffic (MADT) reporting enables us to provide a month-by-month indication of traffic trends, and to allow the effects of specific events (e.g. storms, fuel price shifts, economy, etc.) to be monitored.							
Sample coverageThere are 104 telemetry' 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 Agend region. These numbers represent the sample sizes that are used to rep the regional MADT results.								
	NZ Transport Agency Region	Number of Telemetry Sites						
	Northland and Auckland	19						
	Waikato and Bay of Plenty	23						
	Taranaki, Manawatu-Wanganui, Hawkes Bay and Gisborne	16						
	Wellington, Nelson, Marlborough and Tasman	16						
	Canterbury and West Coast	14						
	Otago and Southland 16							
Sources of variation in MADT	The number of weekends in a specific n comparison between years. Also, public months can also affect comparison betw attempt to compensate for these variati	holidays that can occur in different veen years. This report does not						

¹ Telemetry sites are continuously monitored 24/7.

Key Results

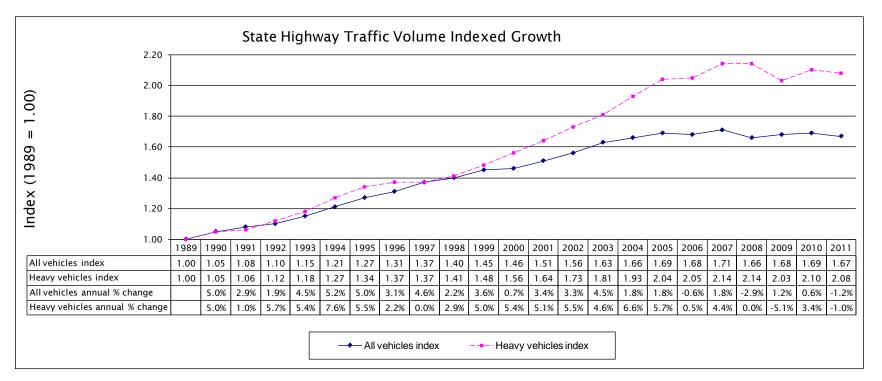
The State Highway Traffic Volume growth indexes measures the change in the yearly traffic volume (All vehicles and heavy vehicles) compared to 1989 when our systematic traffic data records begun.

2011 All Vehicles

There has been a decrease of 1.2% in the all vehicles, compared to 2010.

2011 Heavy Vehicles

There has been a decrease of 1.0% in the heavy vehicles, compared to 2010.



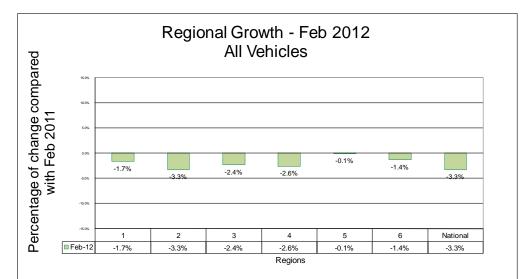
Results:Five key sites have been selected to represent five main centres in NZ.Monthly
traffic at key
sitesThe MADT values for February 2011, February 2012 and percentage of
difference compared are reported in the table below.

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) February-1%	MADT (All Vehicles) February-1&	% Change	
Auckland harbour bridge (SH1)	Auckland	162275	153784	-5%	
Greenwood (SH1)	Hamilton	23029	22369	-3%	
Ngauranga Interchange (SH 1 and SH2 combined)	Wellington	92762	90298	-3%	
Waimakariri Bridge	Christchurch	41133	42362	3%	
Burnside (NB only)	Dunedin	10822	11014	2%	

In February 2012, the MADT values for the sites representing Auckland, Hamilton and Wellington showed a decrease, while the site representing Christchurch and Dunedin indicated an increase, compared to the same period in the previous year. **Regions** Comparisons across the NZ Transport Agency regions have also been carried out.

The graph below shows the percentage of difference compared with the same month last year. The MADT values here represent all vehicle types. In February 2012, regionally, almost all regions had a decrease, except region 5 remained at a similar level. Nationally, the MADT for all vehicles decreased by 3.3%, compared with February 2011.



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

Regional MADT Growth (All vehicles) - Sum of weighted MADT (All vehicles) percentage change compared with the same month previous year from each telemetry site in a region.

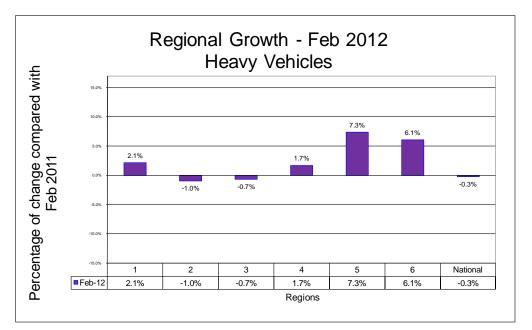
National MADT Growth (All vehicles) – Average of MADT (All vehicles) percentage change compared with the same month previous year from all telemetry sites (not weighted).

More graphs The graphs (as above) dated back to January 2008 are attached to this report.

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

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

The graph below shows the percentage of difference compared with the same month last year. The MADT values here represent heavy vehicles only. In February 2012, regionally, region 2 and 3 had a decrease, while all other regions showed an increase. Nationally, the MADT for heavy vehicles remained at a similar level, compared with February 2011.



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

Regional MADT Growth (Heavy vehicles) – Sum of weighted MADT (Heavy vehicles) percentage change compared with the same month previous year from each telemetry site in a region.

National MADT Growth (Heavy vehicles) – Average of MADT (Heavy vehicles) percentage change compared with the same month previous year from all telemetry sites (not weighted).

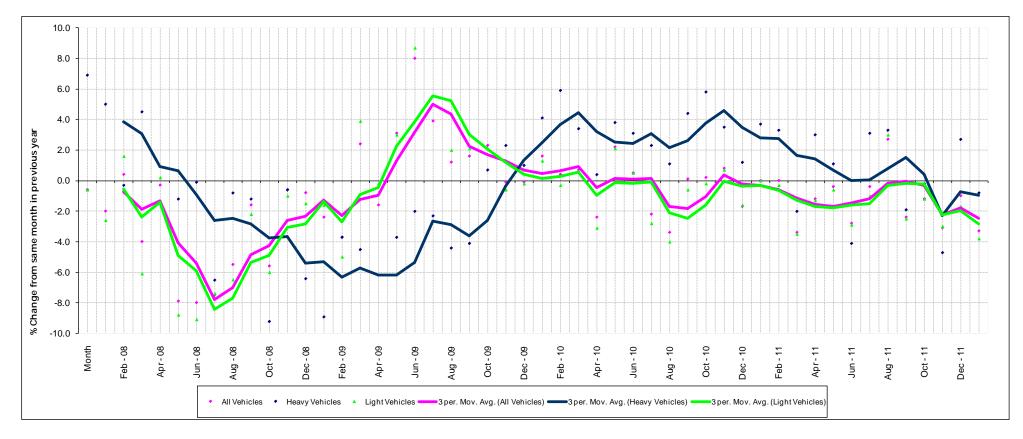
More graphs The graphs (as above) dated back to January 2008 are attached to this report.

All sites A table of MADT (heavy vehicles) values for all national telemetry sites for 2011 is attached to this report.

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

Summary of Percentage Change from Same Month in Previous Year

The graph and table below shows 5 years national percentage change from the same month in the previous year, summarising the figures published in previous monthly reports.



Year	2008			2009		2010		2011		2012					
Month	All	Light	Heavy												
WOITT	Vehicles														
January	-0.6	-0.6	6.9	-0.8	-1.5	-6.4	-0.1	-0.2	1.0	-1.7	-1.6	1.2	-1.0	-1.7	2.7
February	-2.0	-2.6	5.0	-2.4	-1.6	-8.9	1.6	1.3	4.1	0.0	0.0	3.7	-3.3	-3.8	-0.8
March	0.4	1.6	-0.3	-3.7	-5.0	-3.7	0.4	-0.3	5.9	0.0	-0.3	3.3			
April	-4.0	-6.1	4.5	2.4	3.9	-4.5	0.7	0.6	3.4	-3.4	-3.5	-2.0			
Мау	-0.3	0.2	-1.4	-1.6	-0.2	-10.3	-2.4	-3.1	0.4	-1.2	-1.3	3			
June	-7.9	-8.8	-1.2	3.1	3.0	-3.7	2.2	2.1	3.8	-0.4	-0.6	1.1			
July	-8.0	-9.1	-0.1	8.0	8.7	-2.0	0.5	0.5	3.1	-2.8	-2.9	-4.1			
August	-7.5	-7.4	-6.5	3.9	5.0	-2.3	-2.2	-2.8	2.3	-0.4	-1.0	3.1			
September	-5.5	-6.5	-0.8	1.2	2.0	-4.4	-3.4	-4.0	1.1	2.7	3.0	3.3			
October	-1.6	-2.2	-1.2	1.6	2.1	-4.1	0.1	-0.6	4.4	-2.4	-2.5	-1.9			
November	-5.6	-6.0	-9.2	2.3	2.1	0.7	0.2	-0.2	5.8	-1.2	-1.2	-0.2			
December	-0.6	-1.0	-0.6	-0.1	-0.6	2.3	0.8	0.7	3.5	-3.1	-3	-4.7			

Current and Previous Years Growth Graphs: 2011, 2010, 2009 and 2008 - All Vehicles - Heavy Vehicles

Telemetry Site MADT's for the past thirteen months - All Vehicles

- -Heavy Vehicles

