



## Traffic Volumes Monthly Report January 2011

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#### Quality Assurance Statement

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Approved for issue by:

#### Revision Schedule

Rev. No	Date	Description	Prepared by	Reviewed by	Approved by
1	11/2/2011	First draft	Gerald Wen	Neil Beckett	

# Overview

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**Summary**

The purpose of this document is to report on the monthly traffic volume changes. This report also covers annual traffic trends for the period of 1989 to 2010.

The overall trend in traffic growth for all and heavy vehicles, up to 2005, have continued to increase. But both indexes have been shown fluctuations on their increase trend since 2006.

In January 2011, compared with January 2010, the monthly average daily traffic (MADT) for all vehicles had reduced by 1.7 percent; while the MADT for heavy vehicles had a minimal increase of 0.2%.

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**In this report**

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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 104 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	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

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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.

## Overall

The overall trend in traffic growth for all and heavy vehicles, up to 2005, have continued to increase. But both indexes have fluctuated since 2006.

The average annual growth in last 10 years using the State Highway network for all vehicles is 1.5%, and for heavy vehicles is 3%.

After experiencing the first significant reduction of heavy vehicle growth in 2009, for the last two decades, 2010 has seen the indexed growth for heavy vehicles using the State Highway network increase.

## 2010 All Vehicles

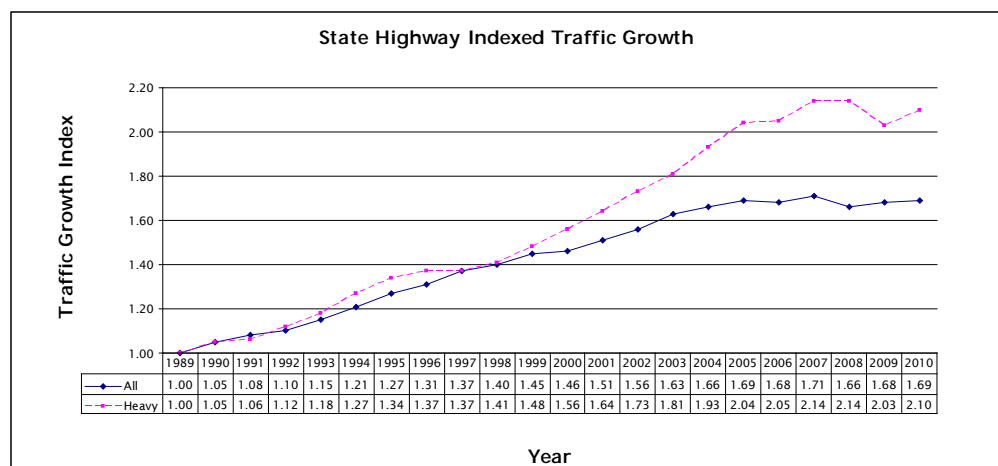
In 2010, there has been an increase of approximately 1% in the total number of vehicles using the State Highway network, compared to 2009.

## 2010 Heavy Vehicles

There has been an increase of approximately 3% in the total number of heavy vehicles using the State Highway network, compared to 2009.

The percentage of very long heavy vehicles (>17m) increased by approximately 6%, compared to 2009.

## National growth (annual)



<sup>1</sup> Weighted average traffic across the National 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 January 2011, January 2010 and percentage of difference compared are reported in the table below.

Note the MADT values include all vehicles.

Site	City	MADT (All Vehicles) January-10	MADT (All Vehicles) January-11	% Change
Auckland harbour bridge (SH1)	Auckland	146931	139815	-5%
Greenwood (SH1)	Hamilton	17695	19910	13%
Ngauranga Interchange (SH 1 and SH 2)	Wellington	72892	79269	9%
DUNSANDEL (Best Alternative)	Christchurch	10746	10665	-1%
Burnside	Dunedin	23510	23159	-1%

In January 2011, the MADT values for the sites representing Hamilton and Wellington had an increase, while Auckland, Christchurch and Dunedin indicated a decrease, compared to the same period in the previous year.

Please note that the required accuracy for the delivery of data at a single site is +/- 5%, so the above figures may be within this tolerance.

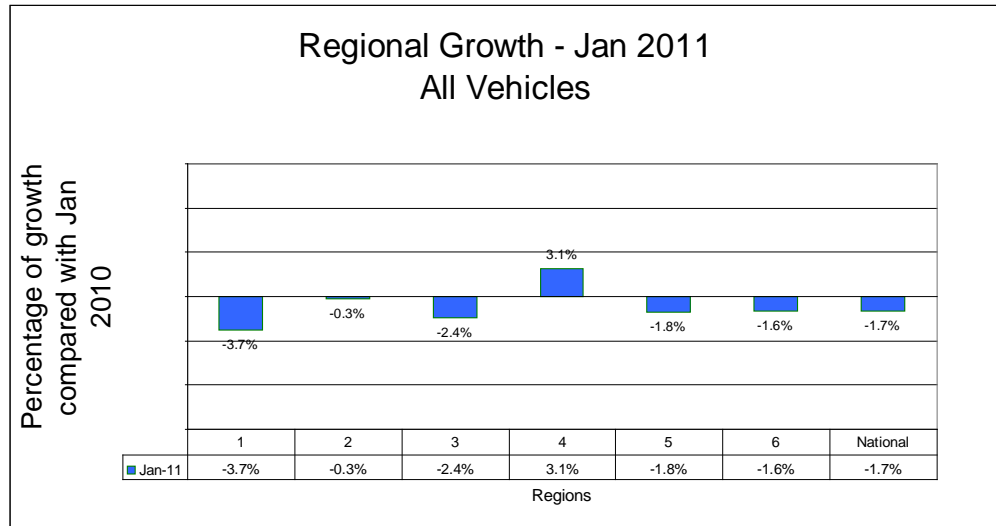
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# Results: All Vehicles

## Regions

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

The graph below shows the percentage of difference compared with the same period in 2010. The MADT values here represent all vehicle types. It can be observed that almost all regions had a minor decrease in MADT<sup>1</sup>, except region 4, compared with the same period last year<sup>2</sup>. Nationally, the MADT in January 2011 for all vehicles had reduced by 1.7 percent<sup>3</sup>, compared with January 2010.



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.

<sup>1</sup> Regional MADT Growth – Sum of weighted growth of the telemetry sites in a region.

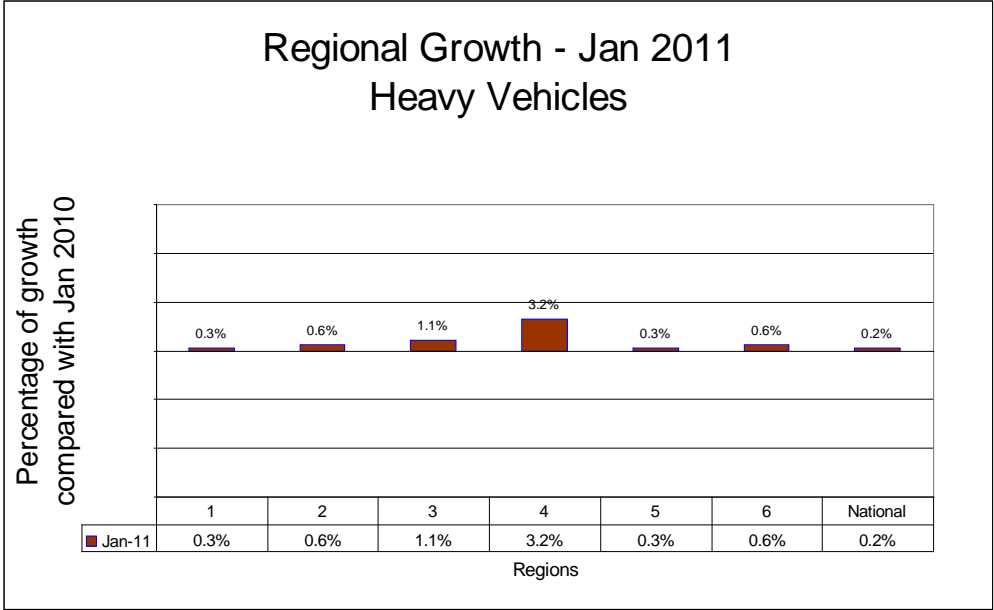
<sup>2</sup> Regional MADT Growth – Sum of weighted growth of the telemetry sites in a region.

<sup>3</sup> National MADT Growth – Average growth of the entire telemetry sites (not weighted).

# Results: Heavy Vehicles

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

The graph below shows the percentage of difference compared with the same period in 2010. The MADT values here represent heavy vehicles only. It can be observed that all regions had a minimal increase<sup>2</sup>, except region 4 with an increase of 3.2%. Nationally, the MADT in January 2011 for heavy vehicles had a minimal increase of 0.2%<sup>3</sup>, compared with January 2010.



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 2010 is attached to this report.

<sup>1</sup> Heavy vehicles are those with a gross vehicle mass exceeding 3.5 tonnes.  
<sup>2</sup> Regional MADT Growth – Sum of weighted growth of the telemetry sites in a region.  
<sup>3</sup> National MADT Growth – Average growth of the entire telemetry sites (not weighted).

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## Appendices

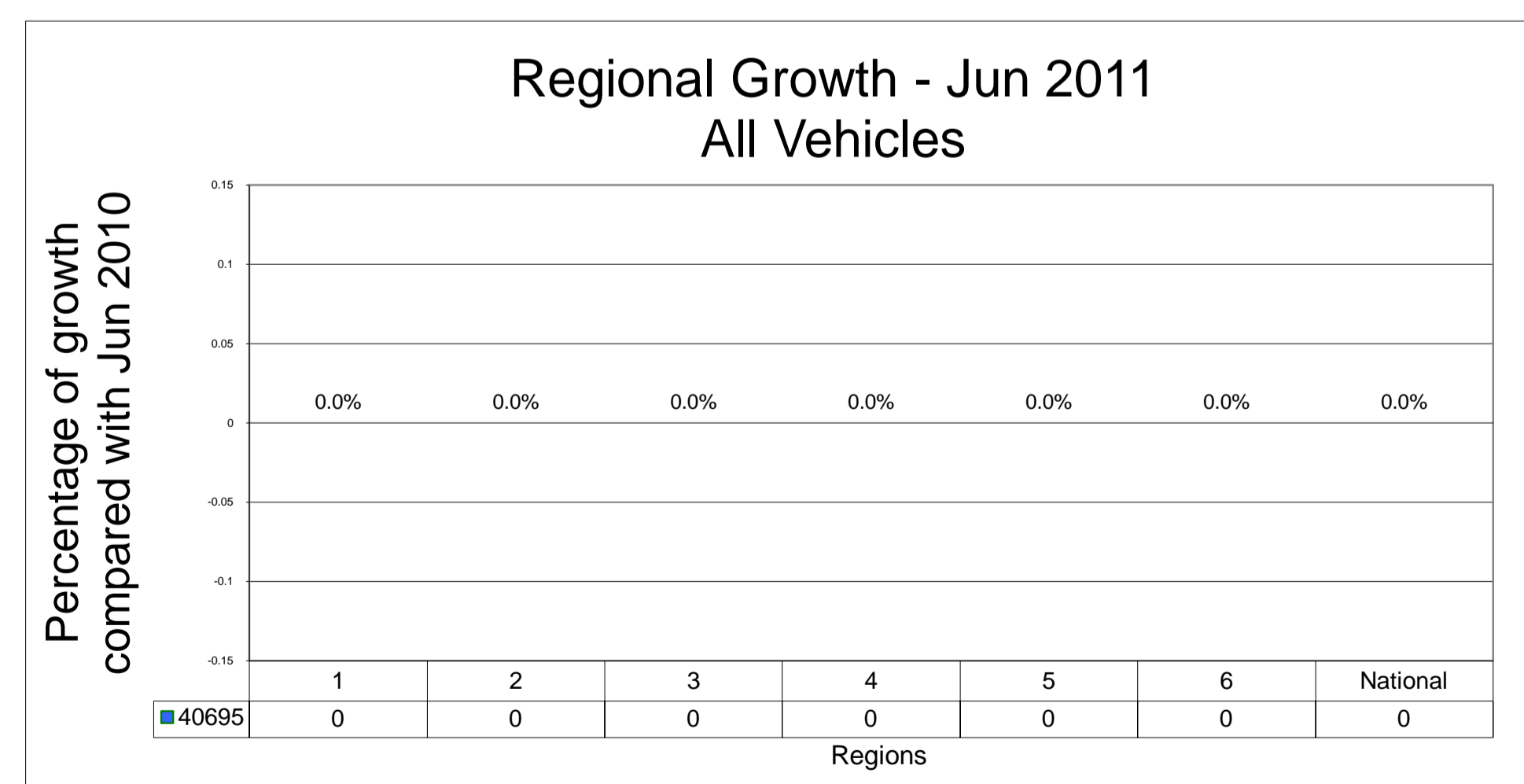
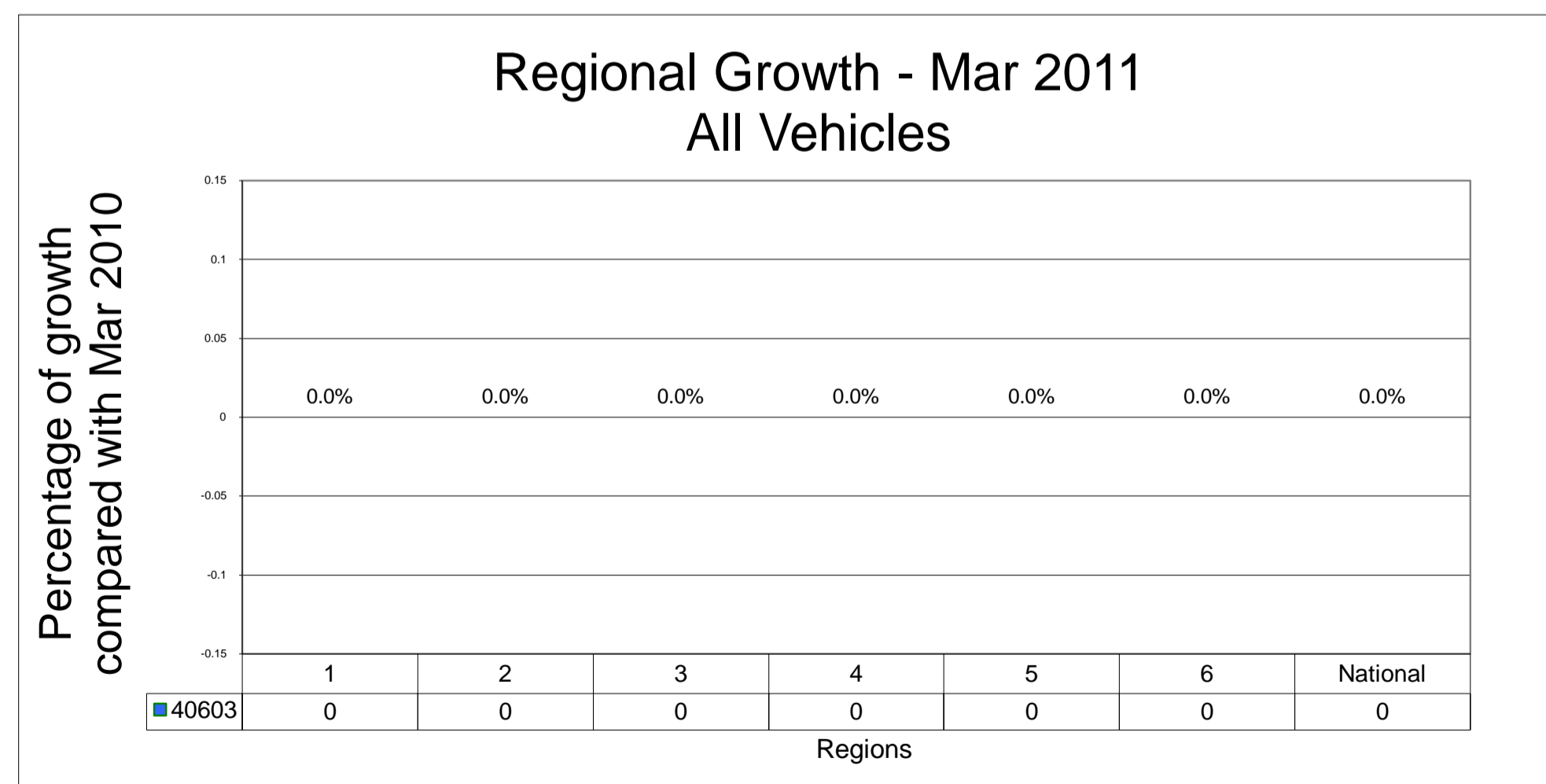
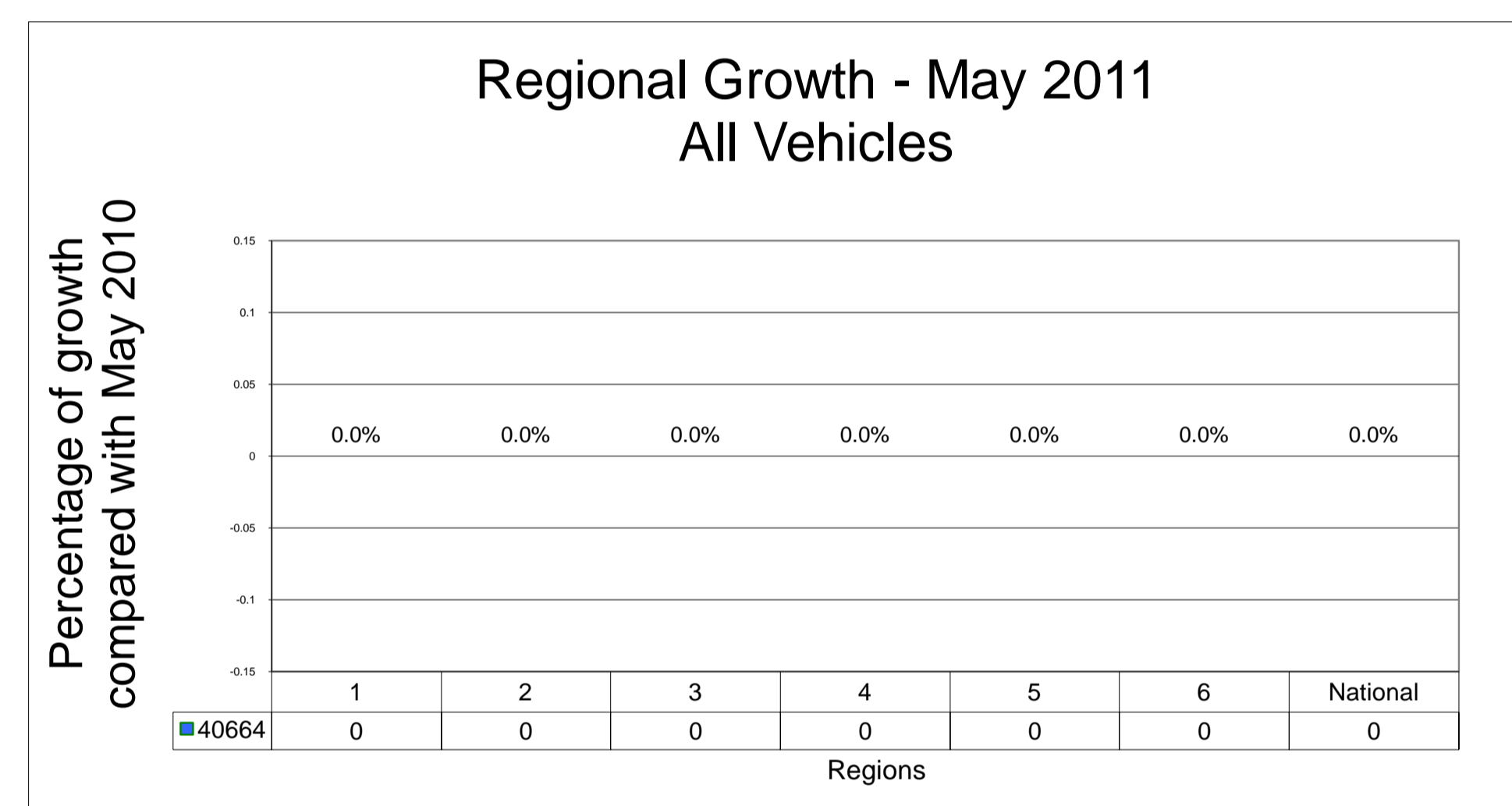
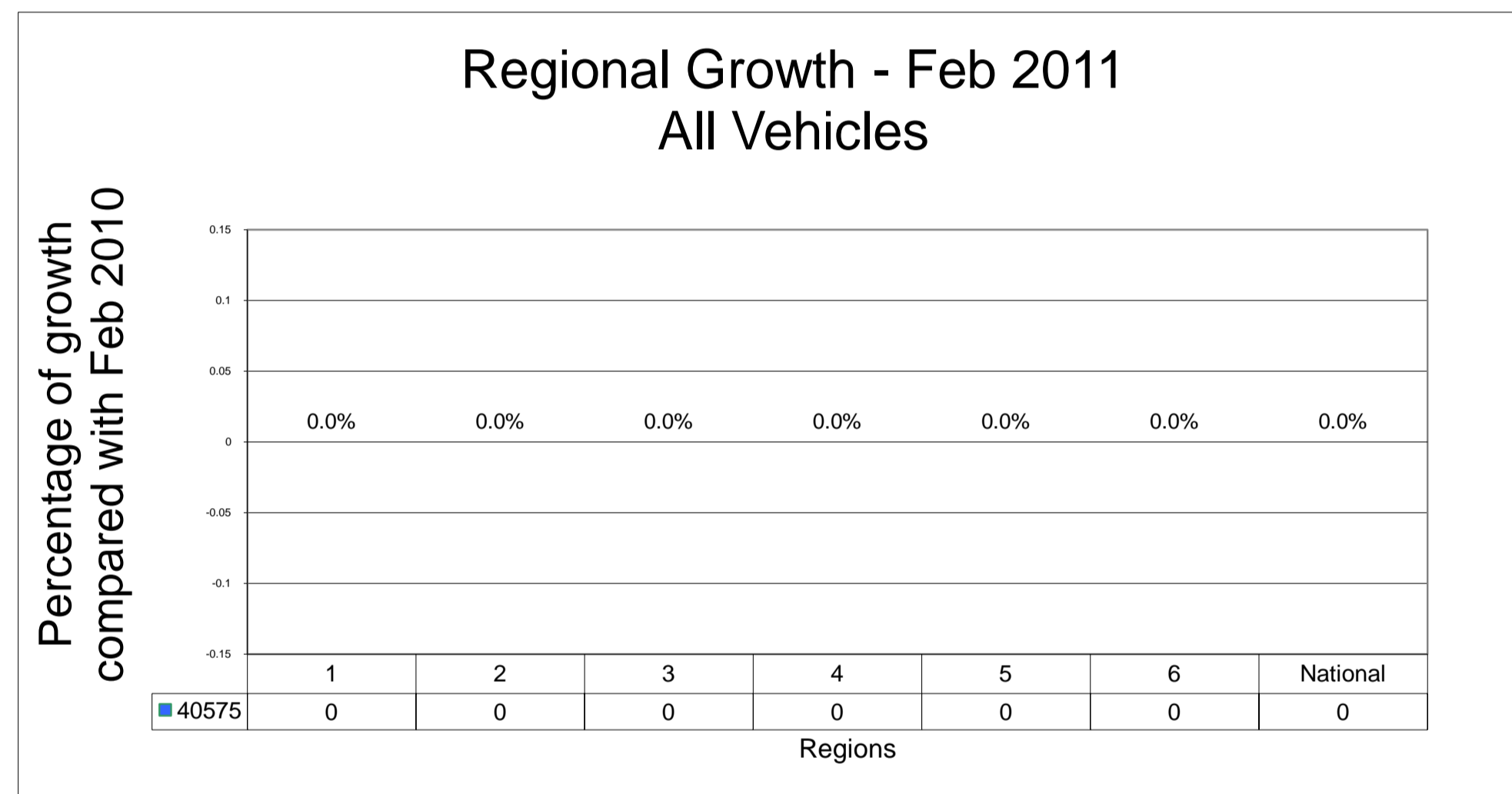
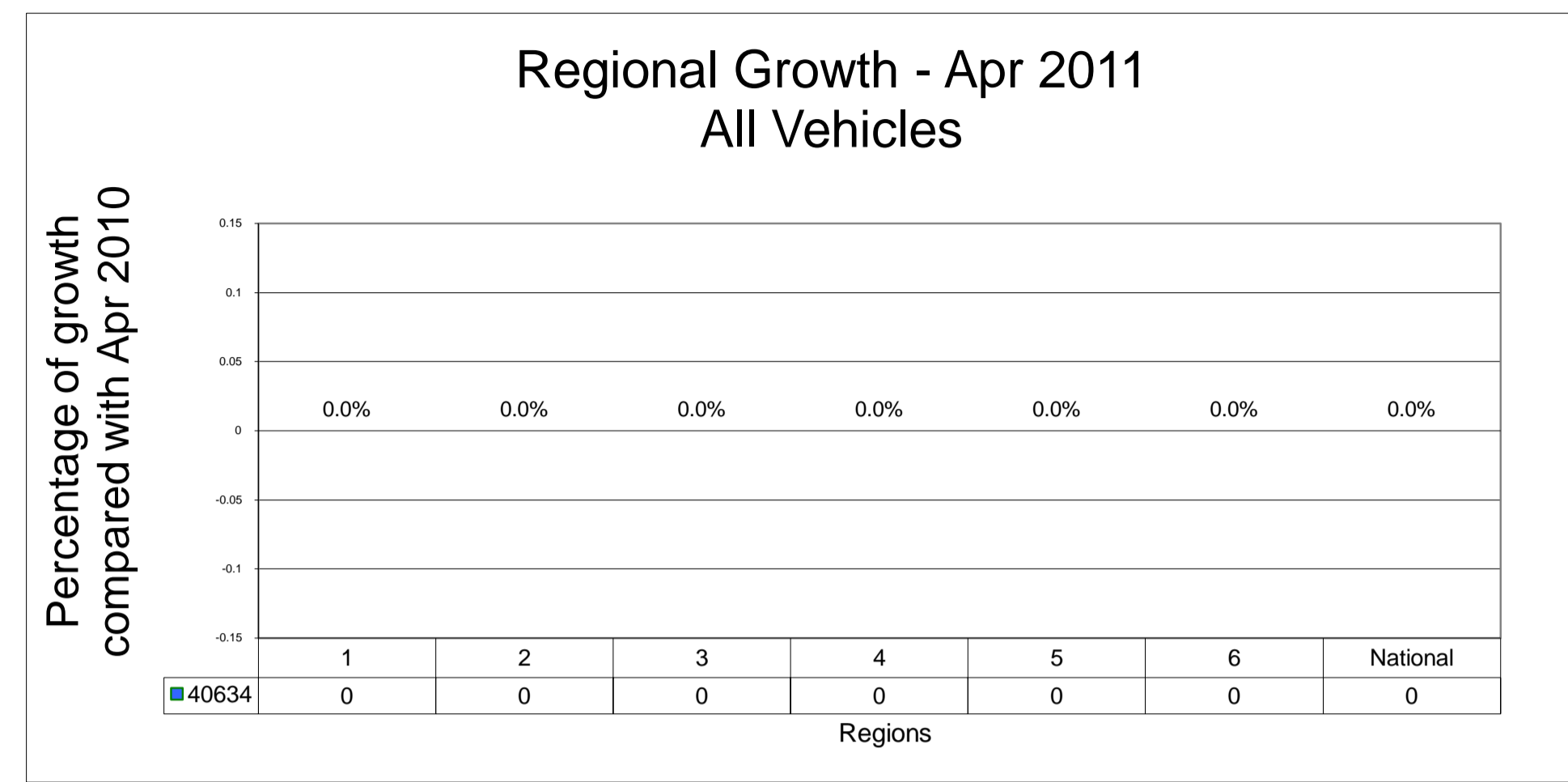
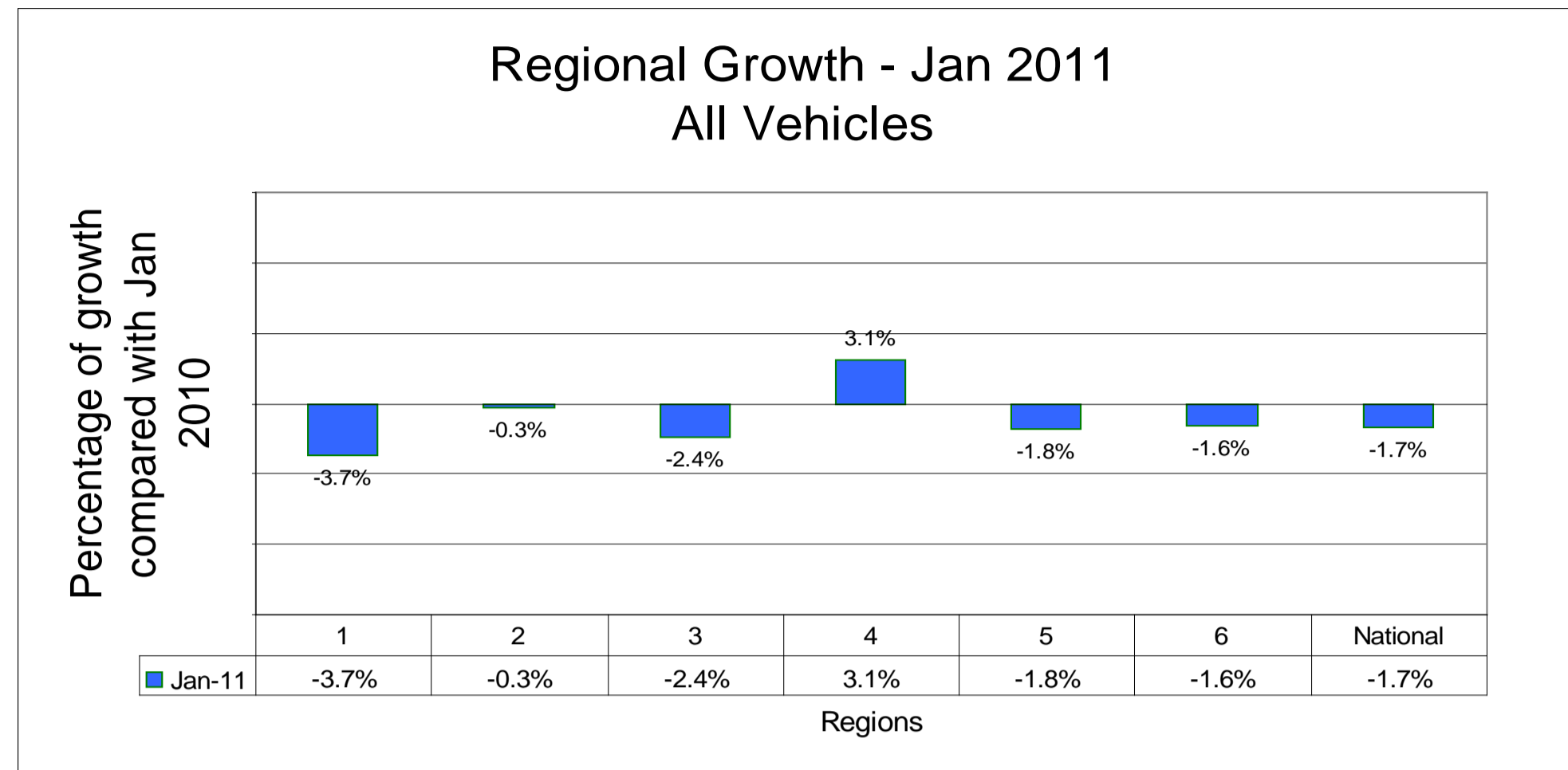
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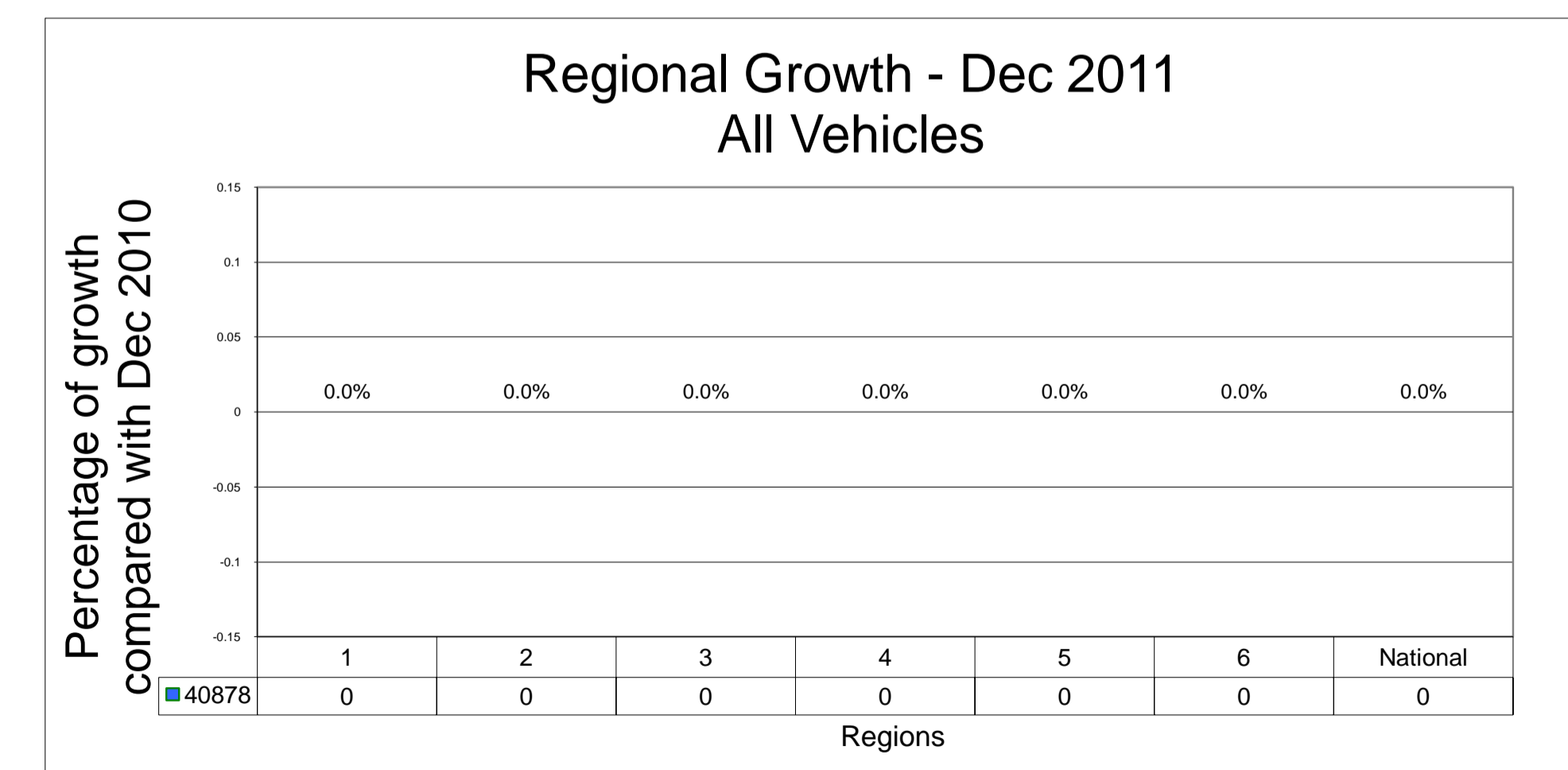
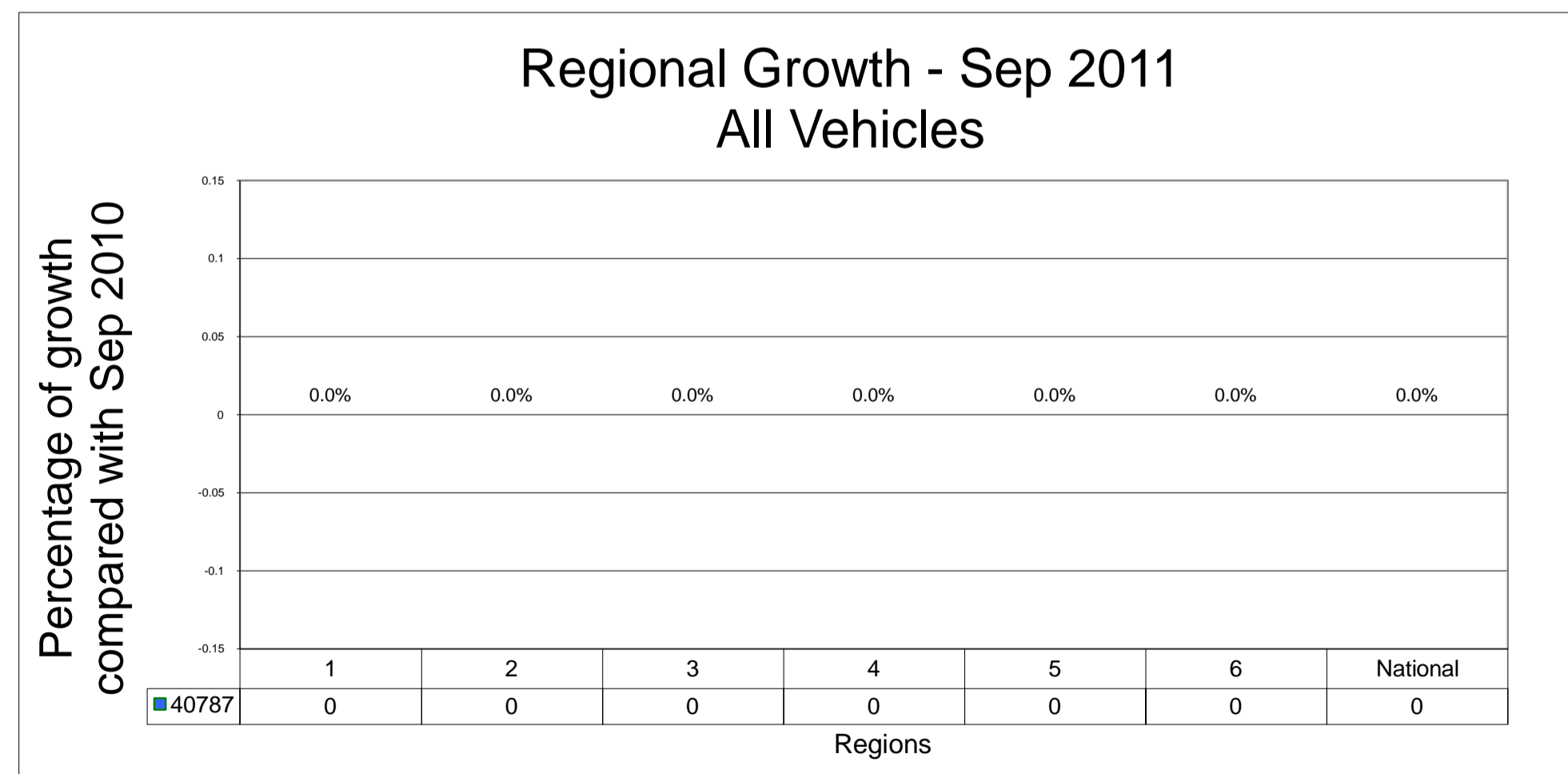
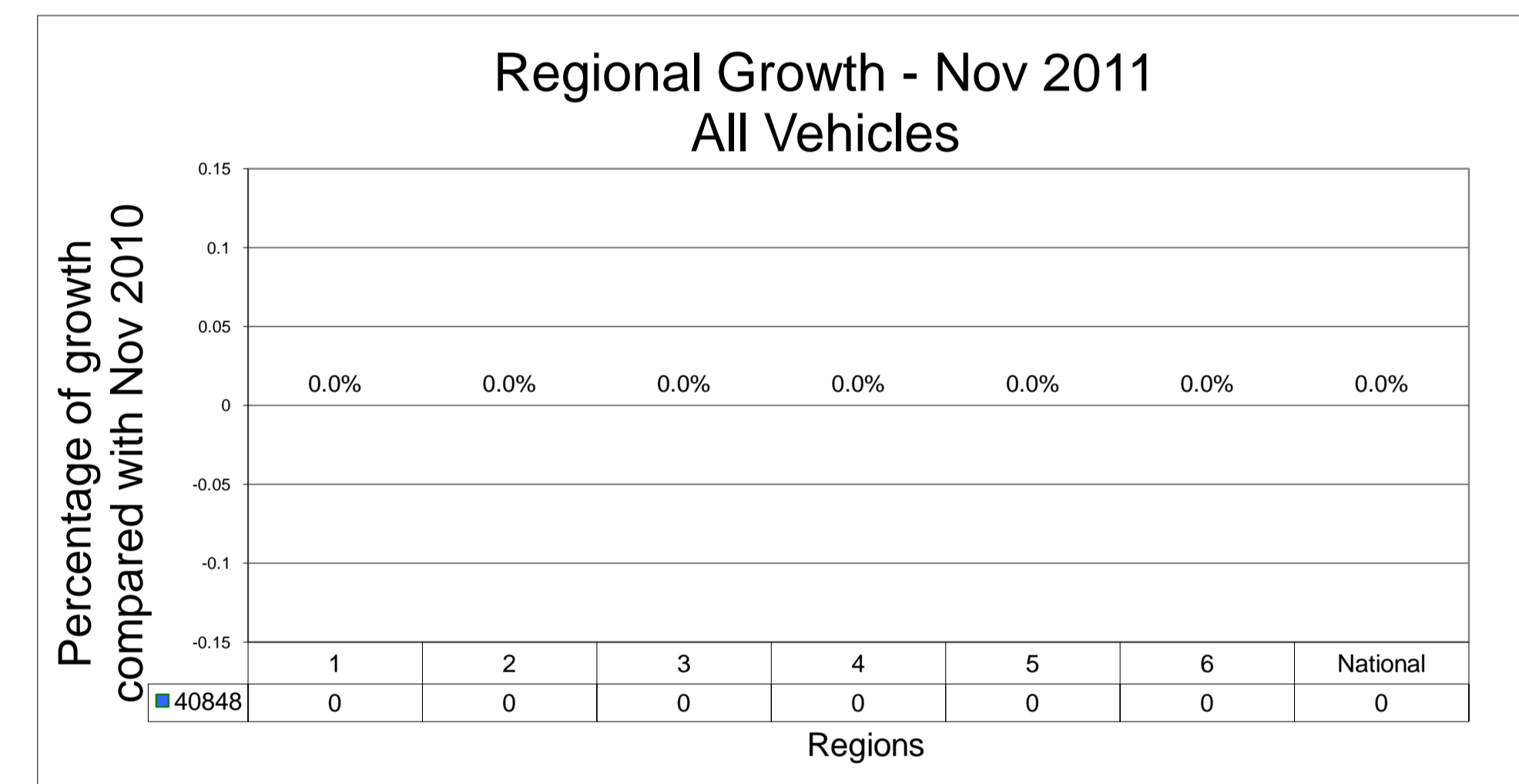
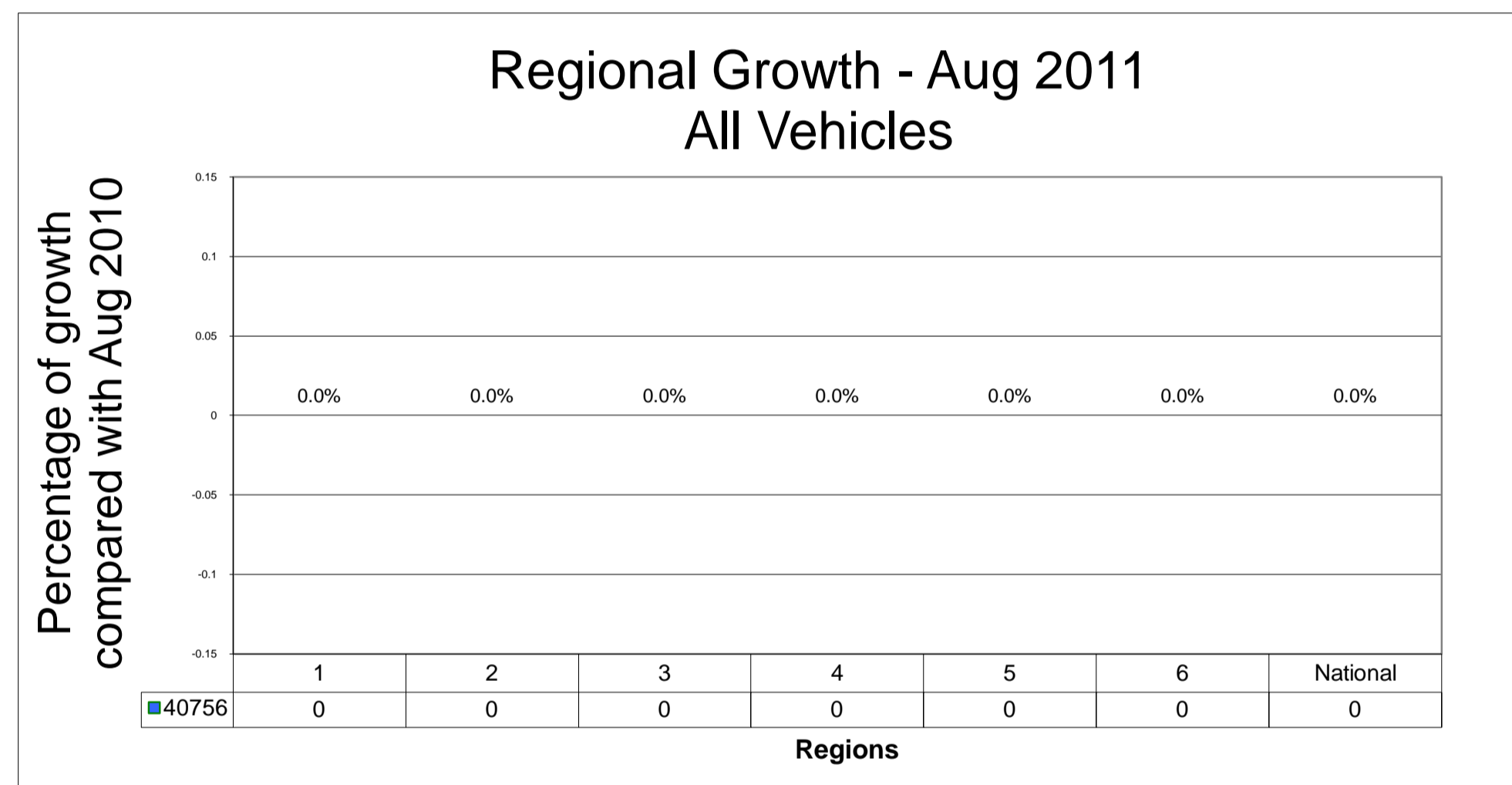
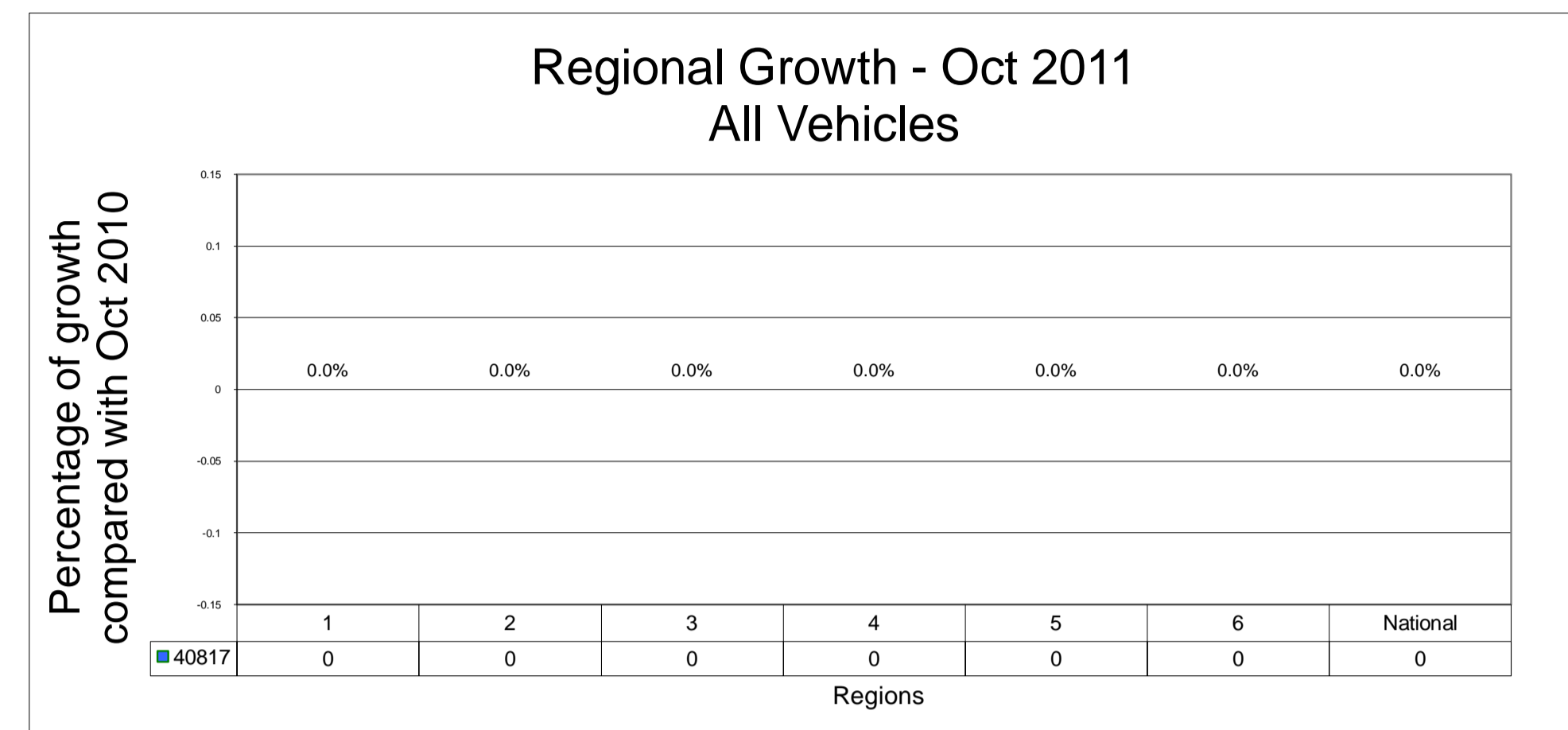
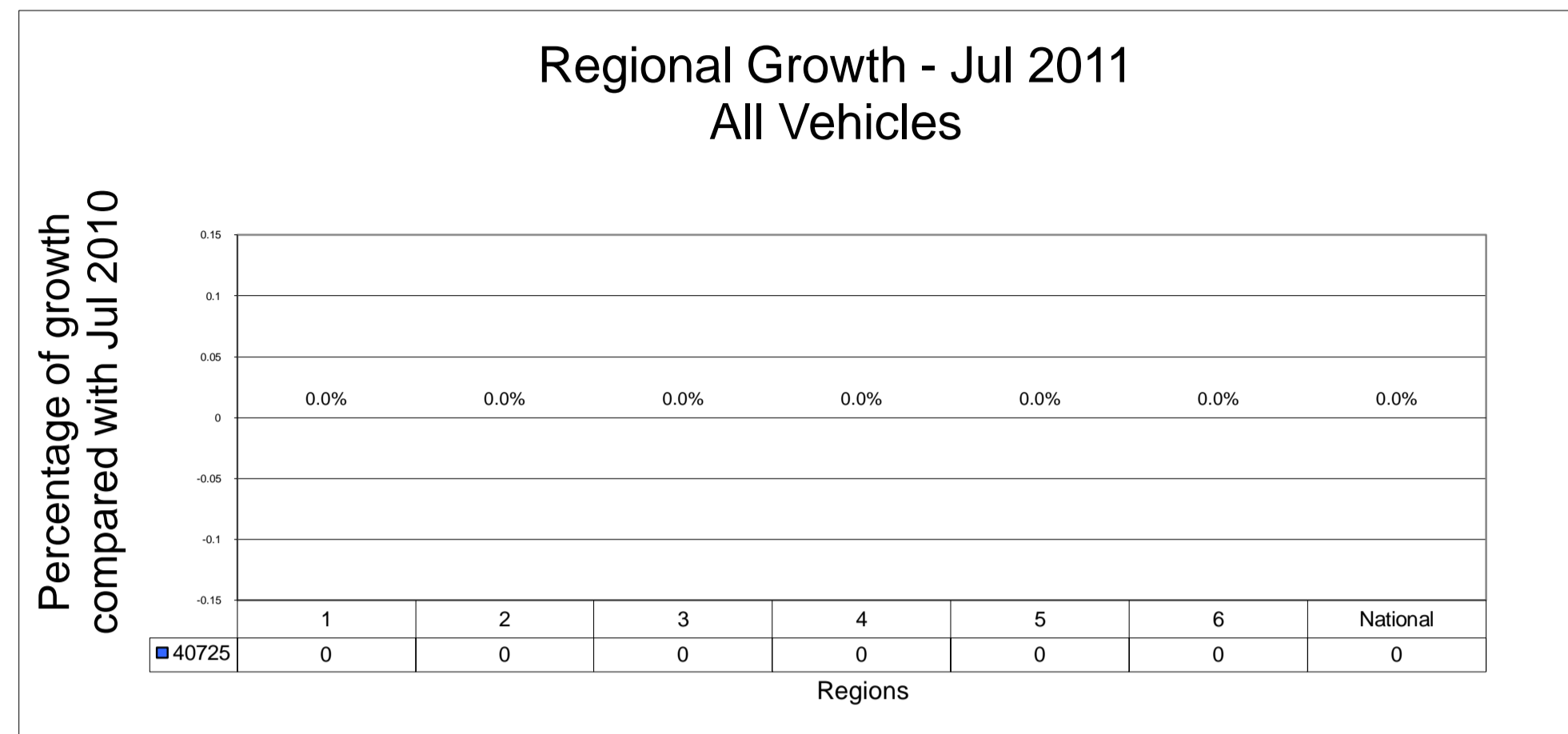
### Current and Previous Years Growth Graphs: 2011, 2010, 2009 and 2008

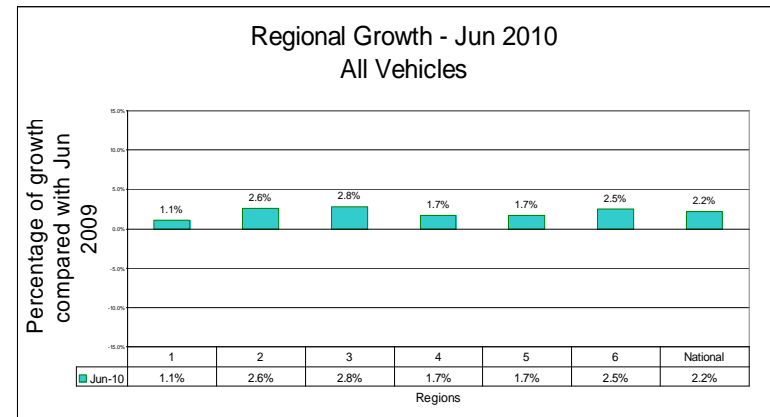
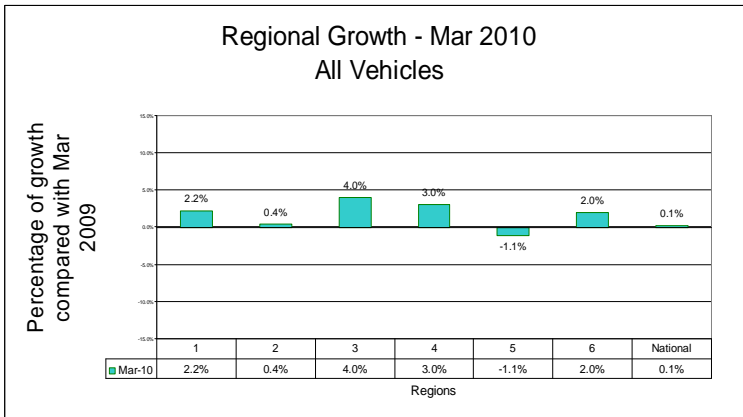
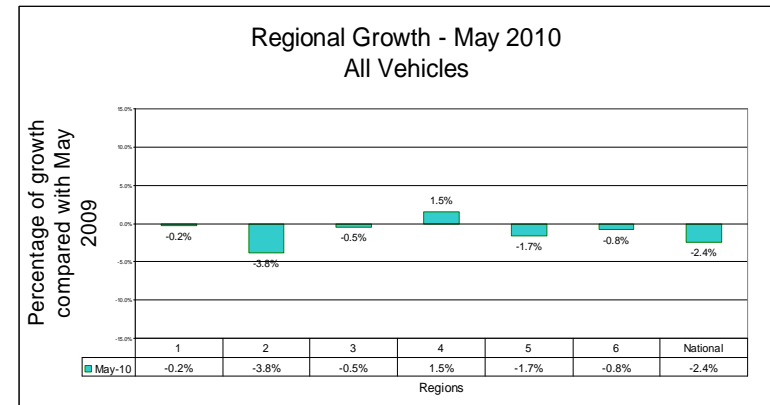
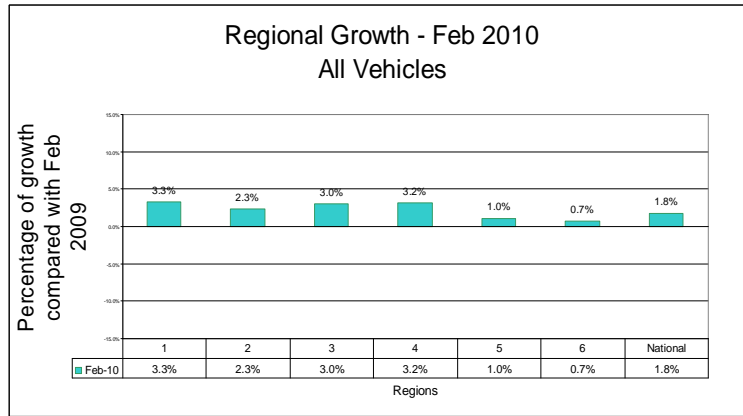
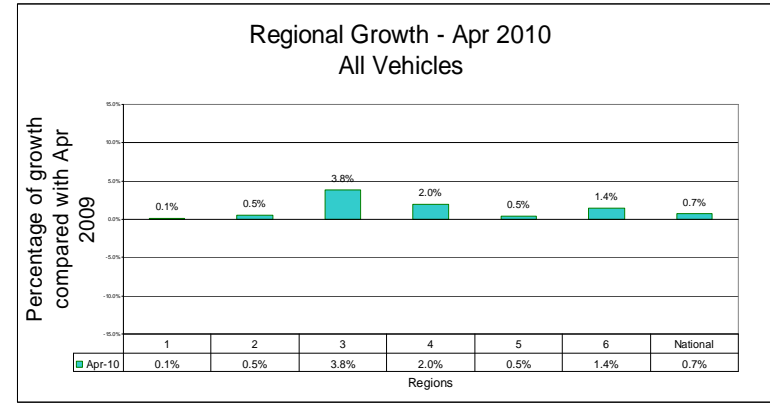
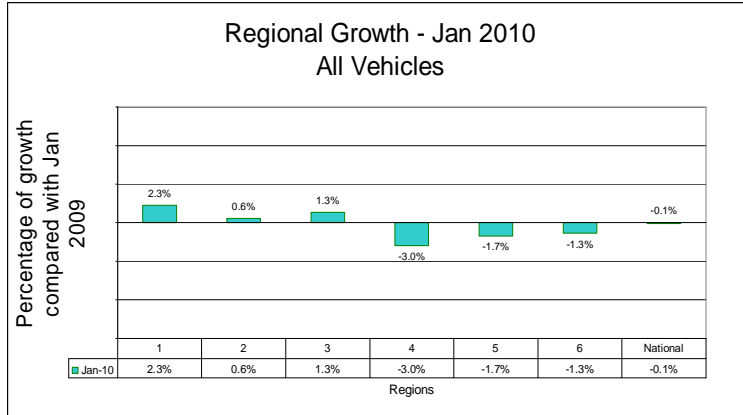
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- Heavy Vehicles

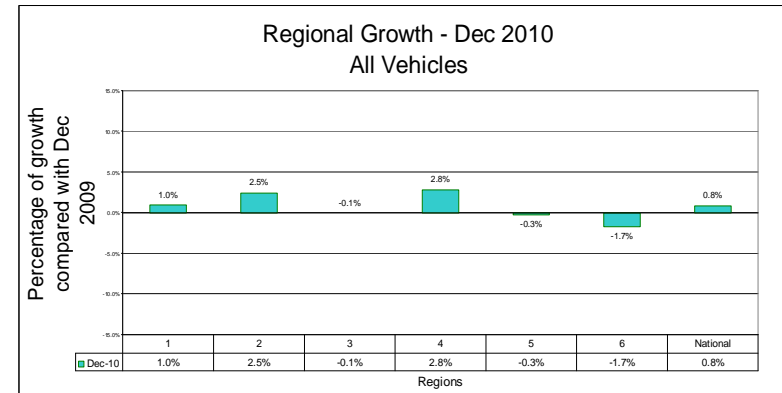
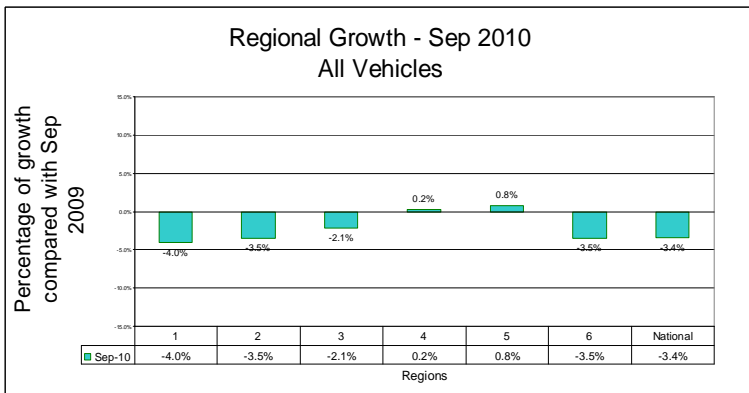
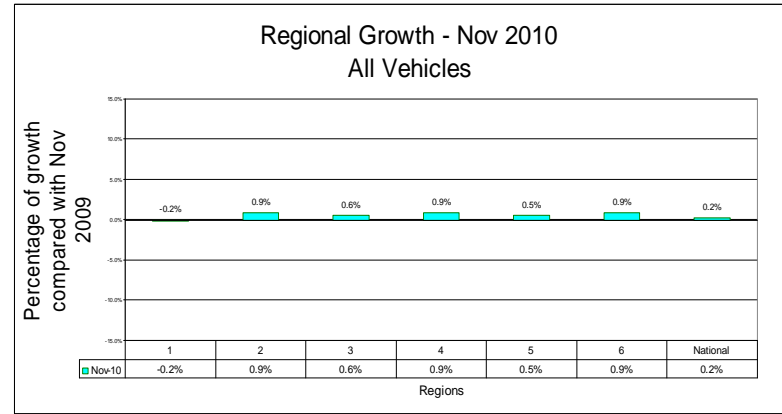
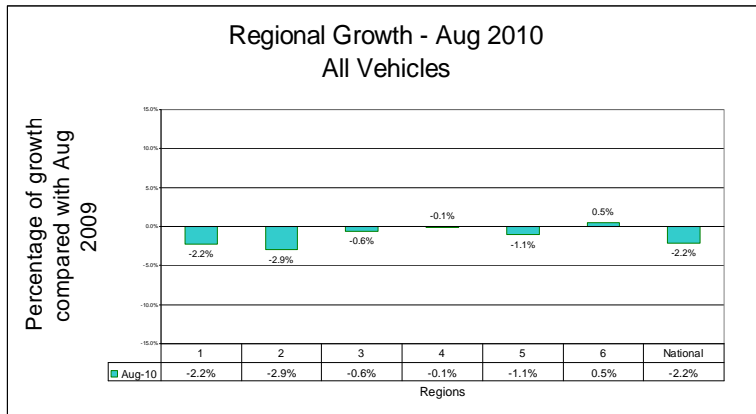
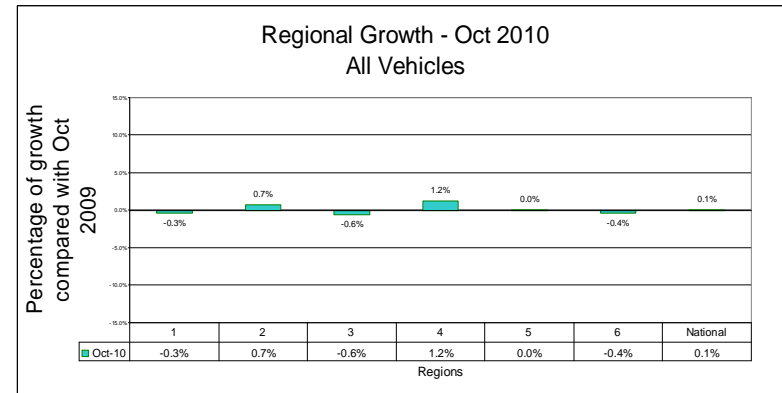
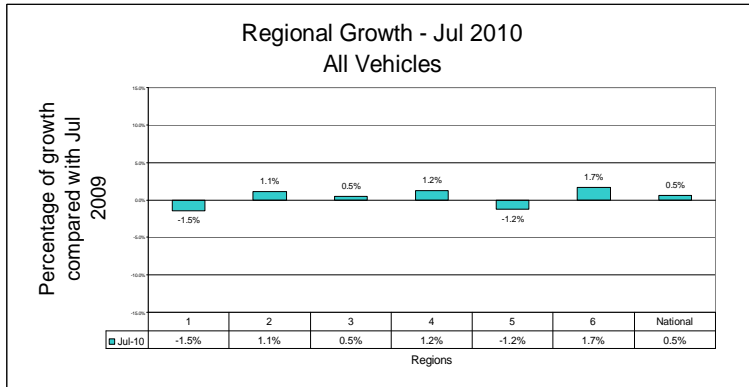
### Telemetry Site MADT's for the past twelve months

- All Vehicles
- Heavy Vehicles

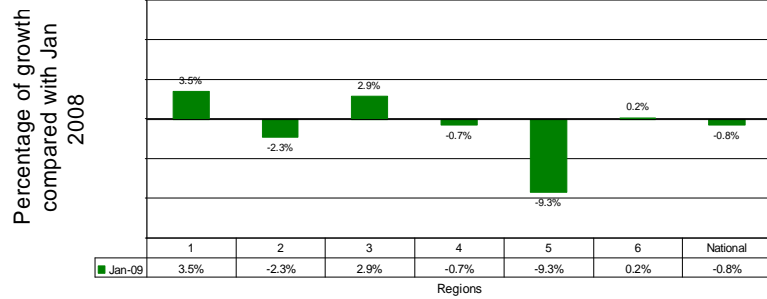




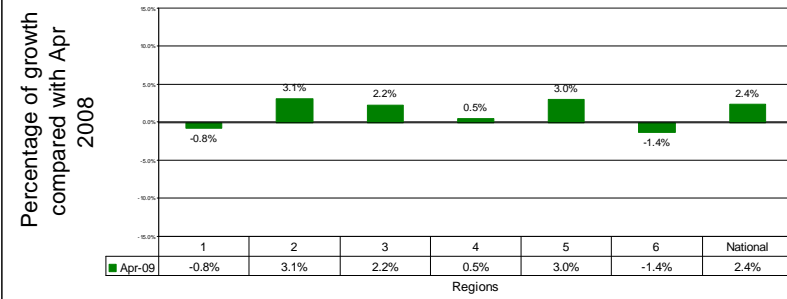




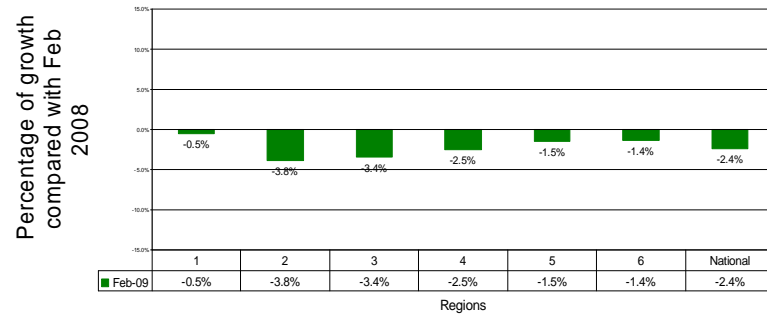
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All Vehicles



Regional Growth - Apr 2009  
All Vehicles



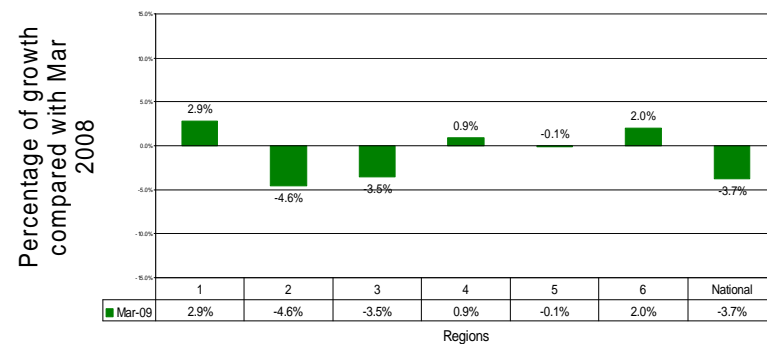
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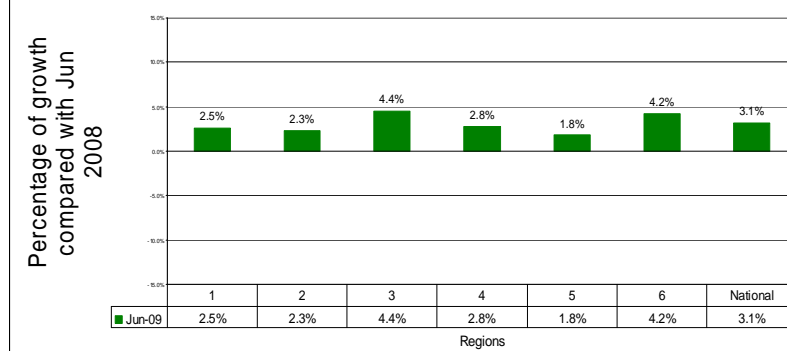
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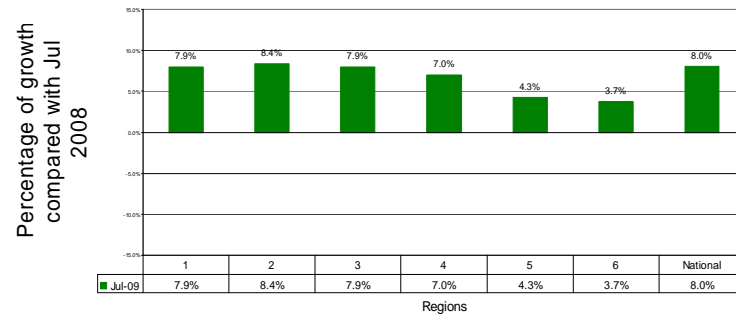
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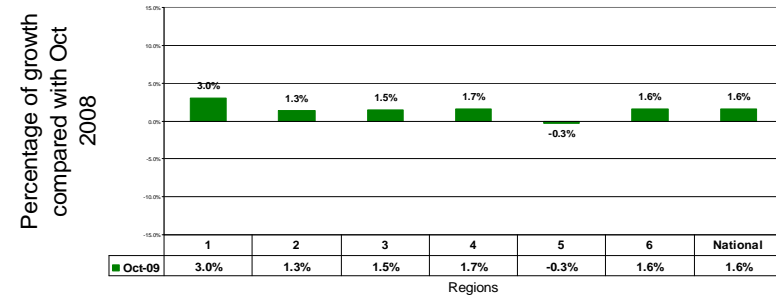
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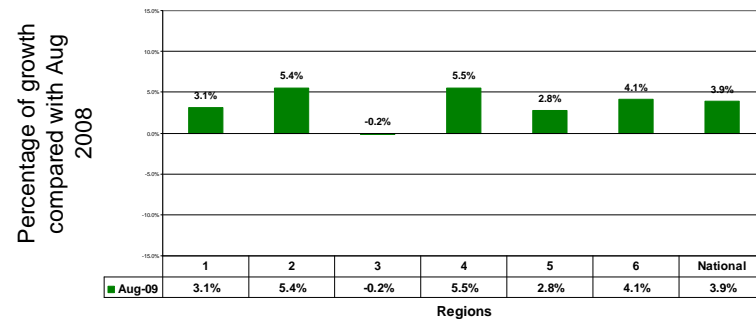
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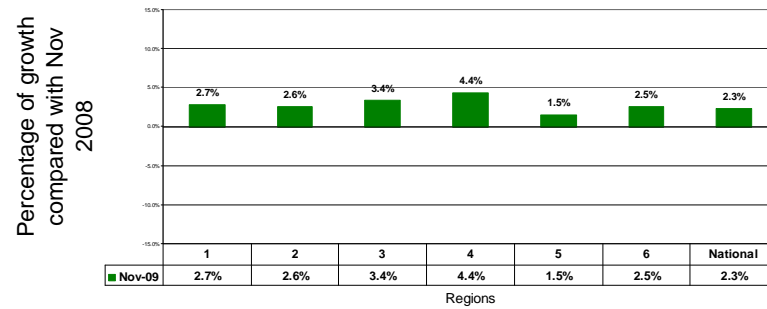
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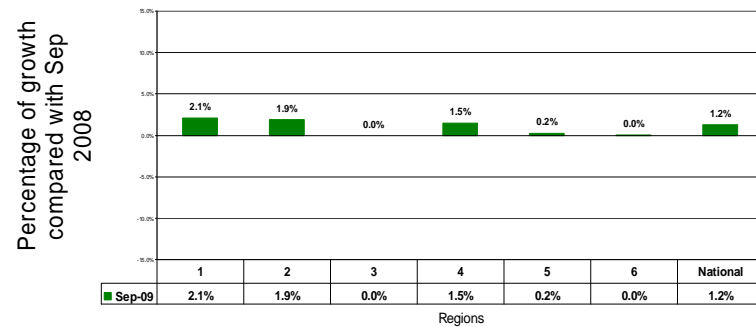
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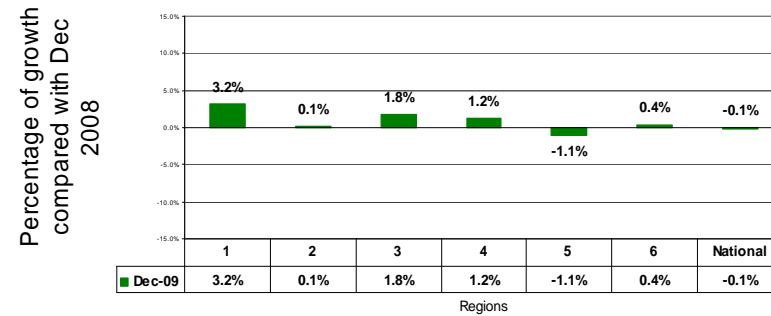
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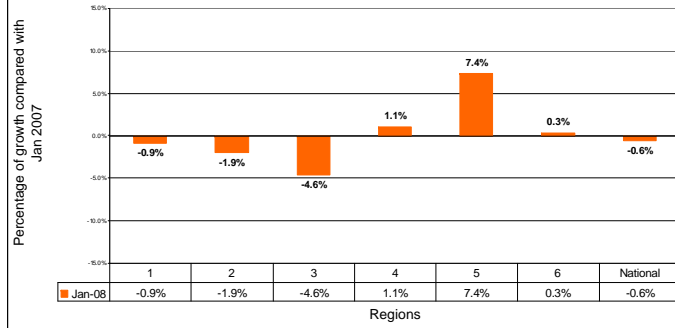
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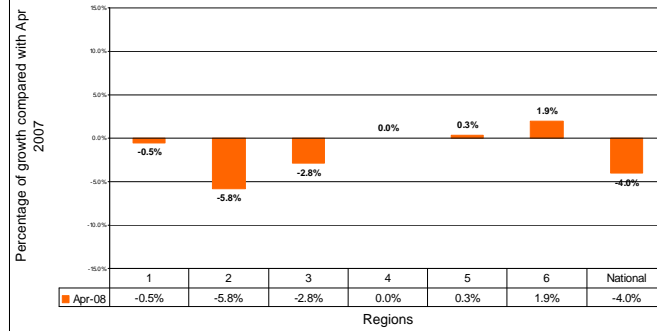
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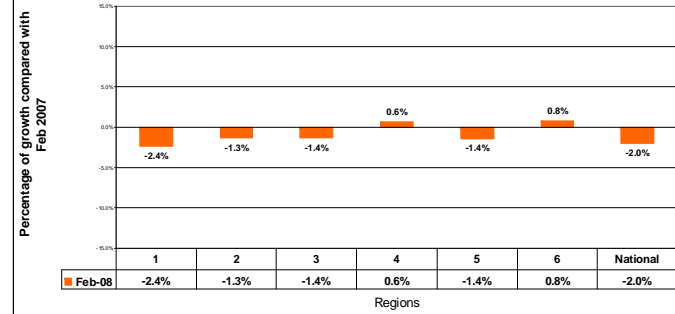
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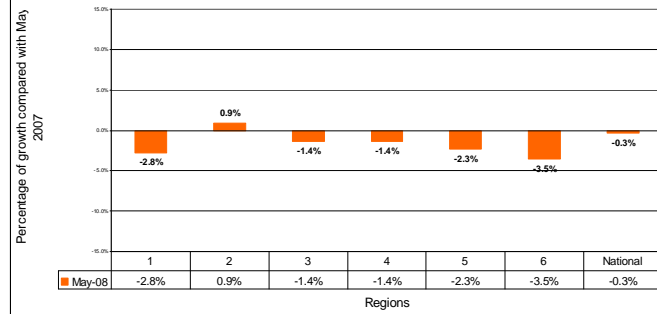
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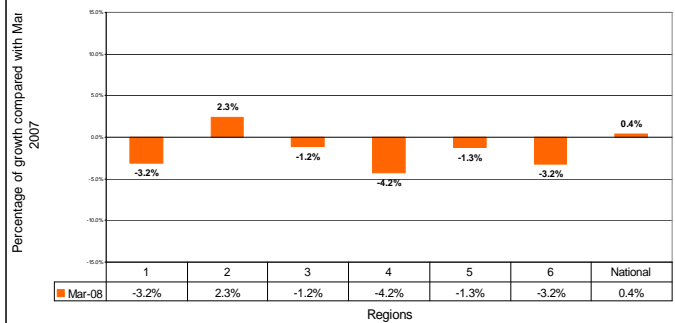
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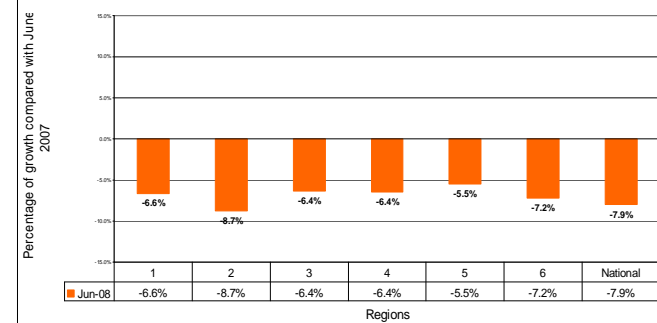
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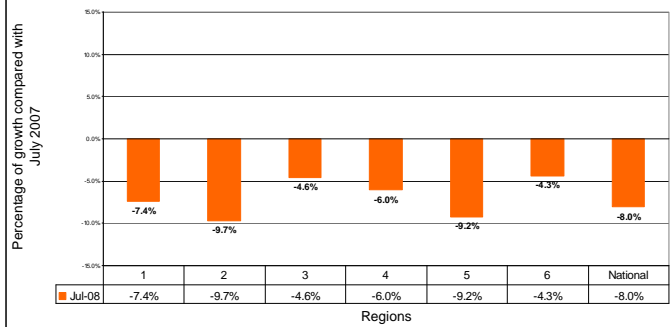
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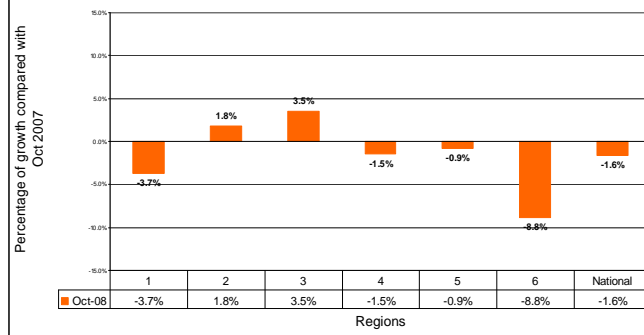
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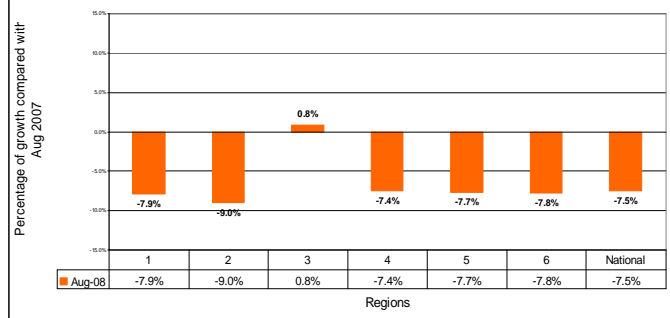
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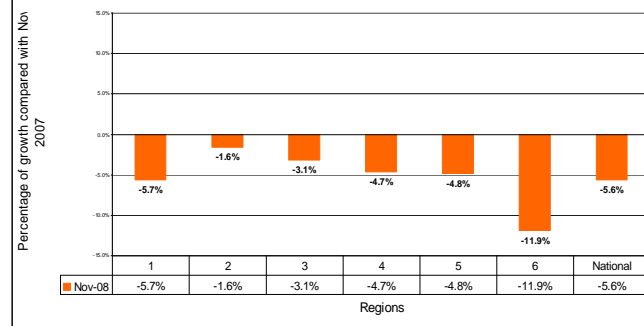
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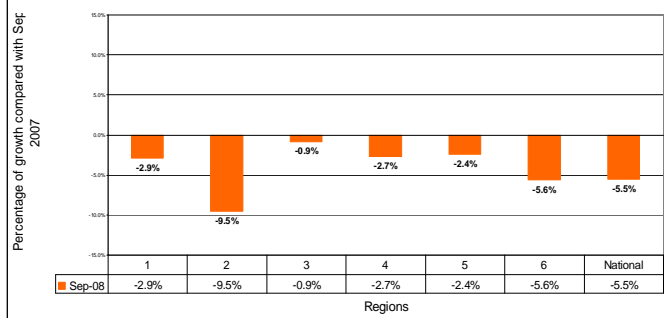
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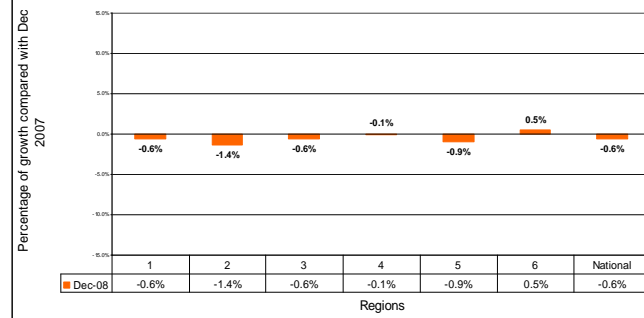
Regional Growth - Nov 2008  
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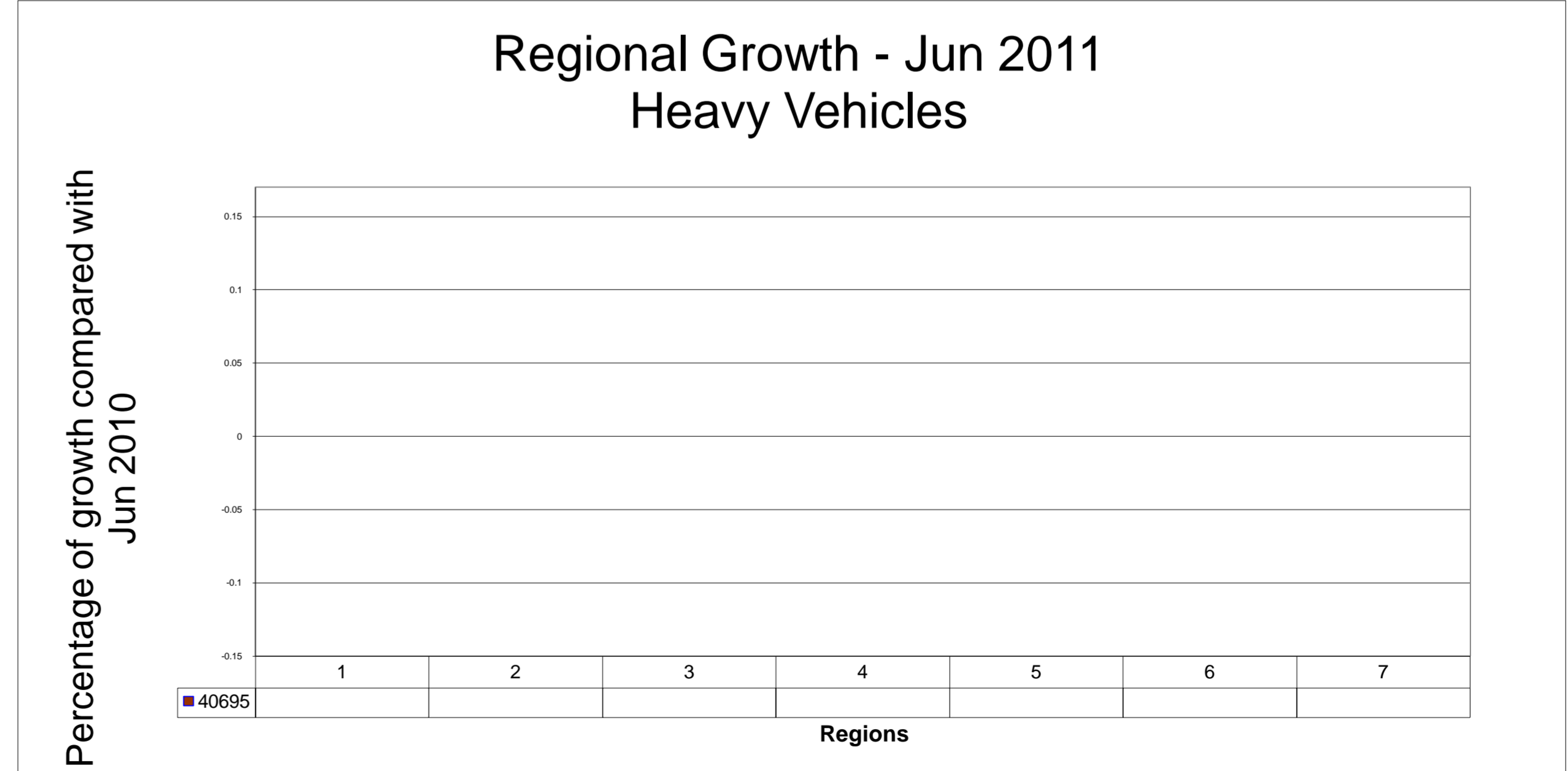
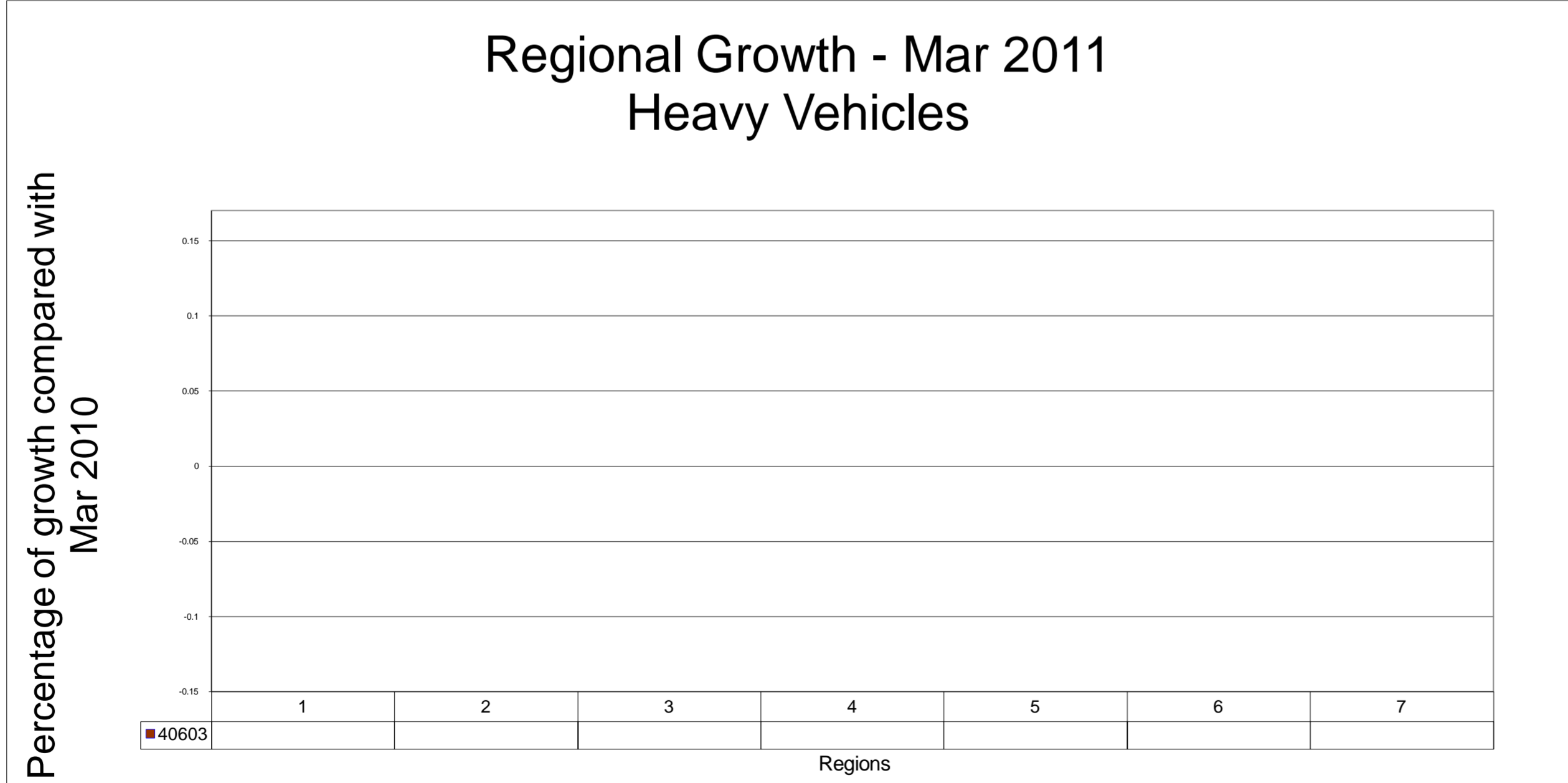
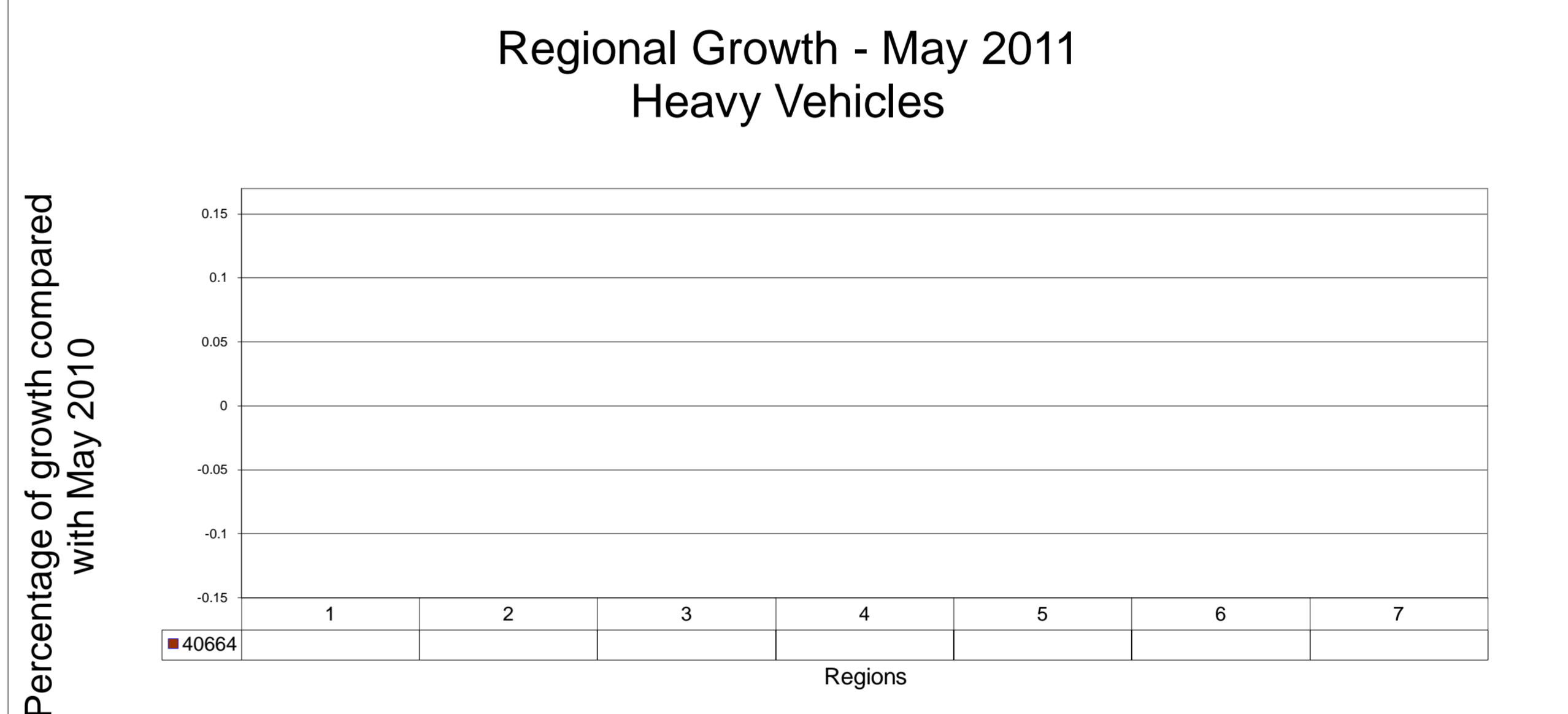
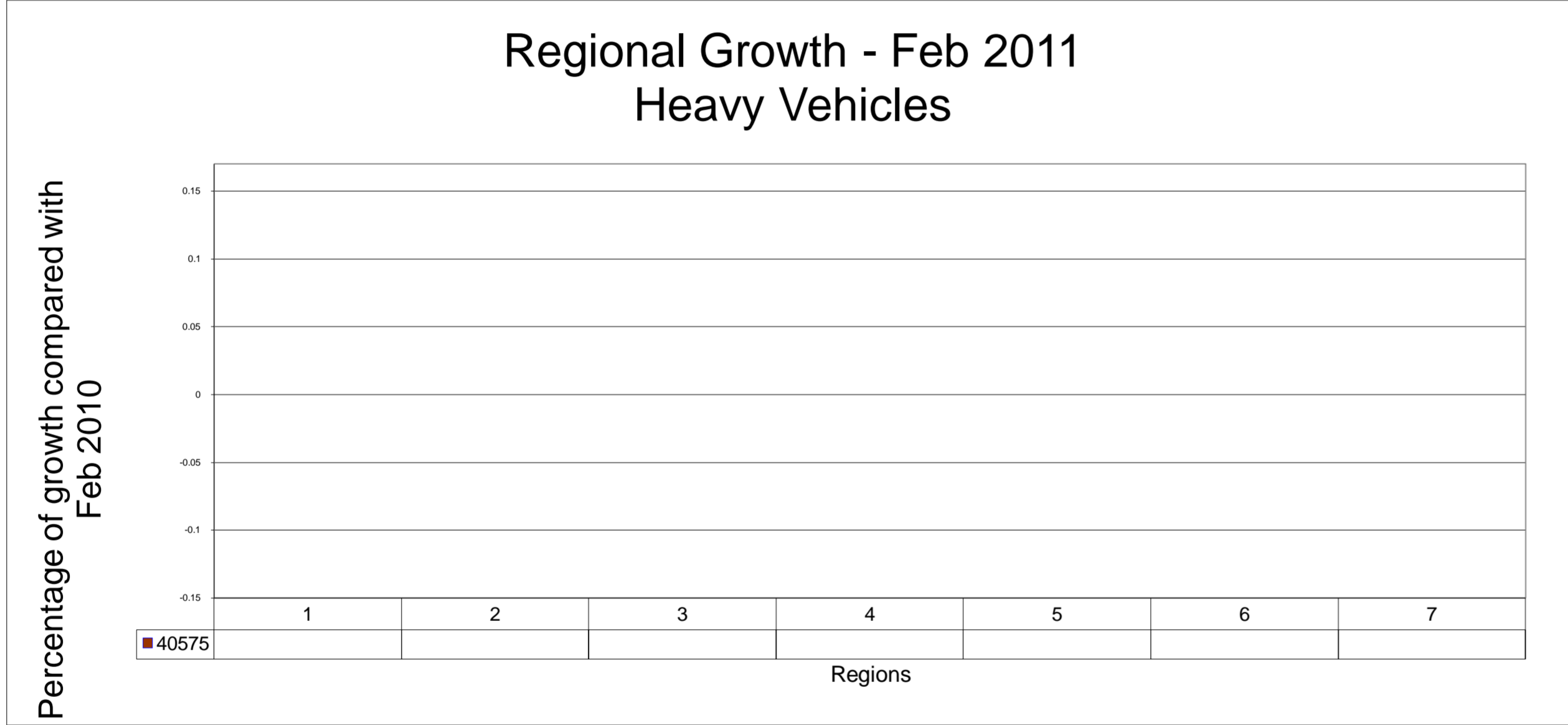
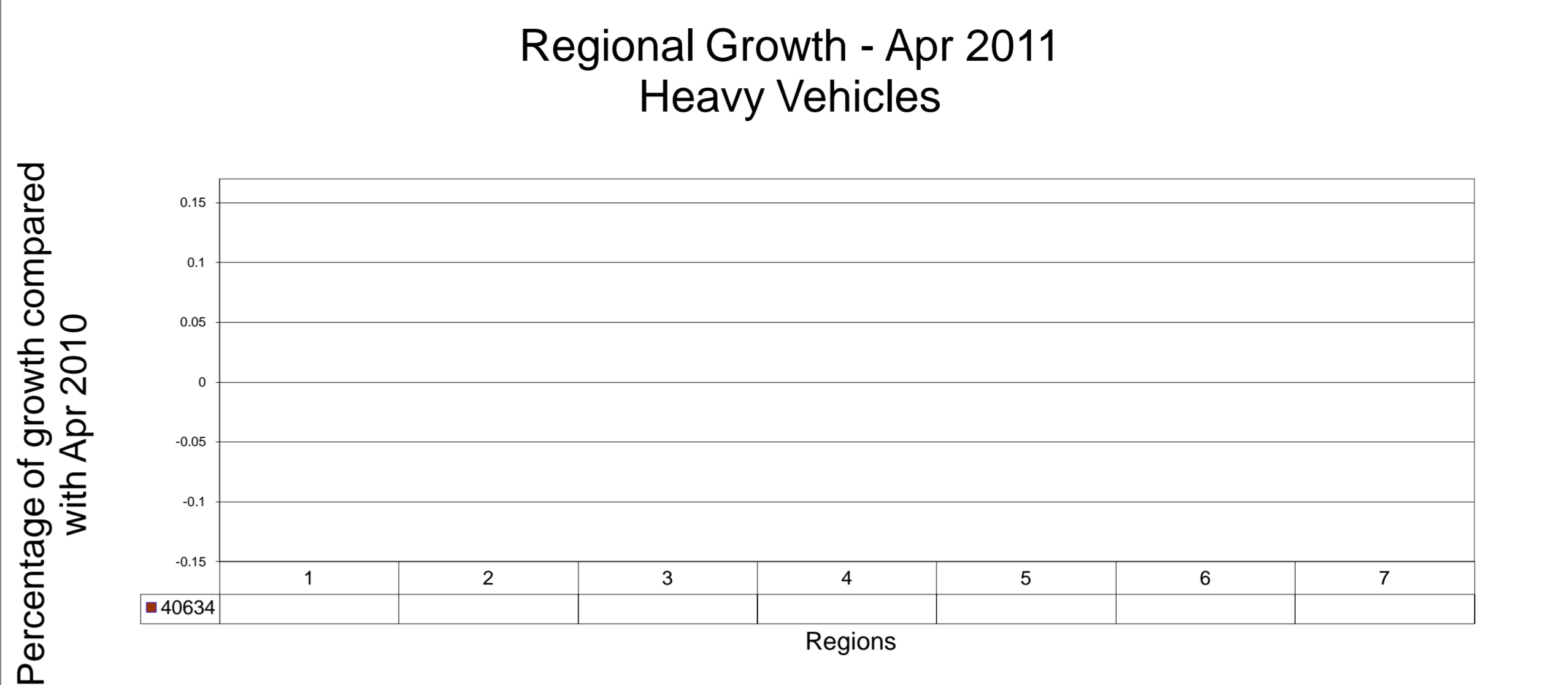
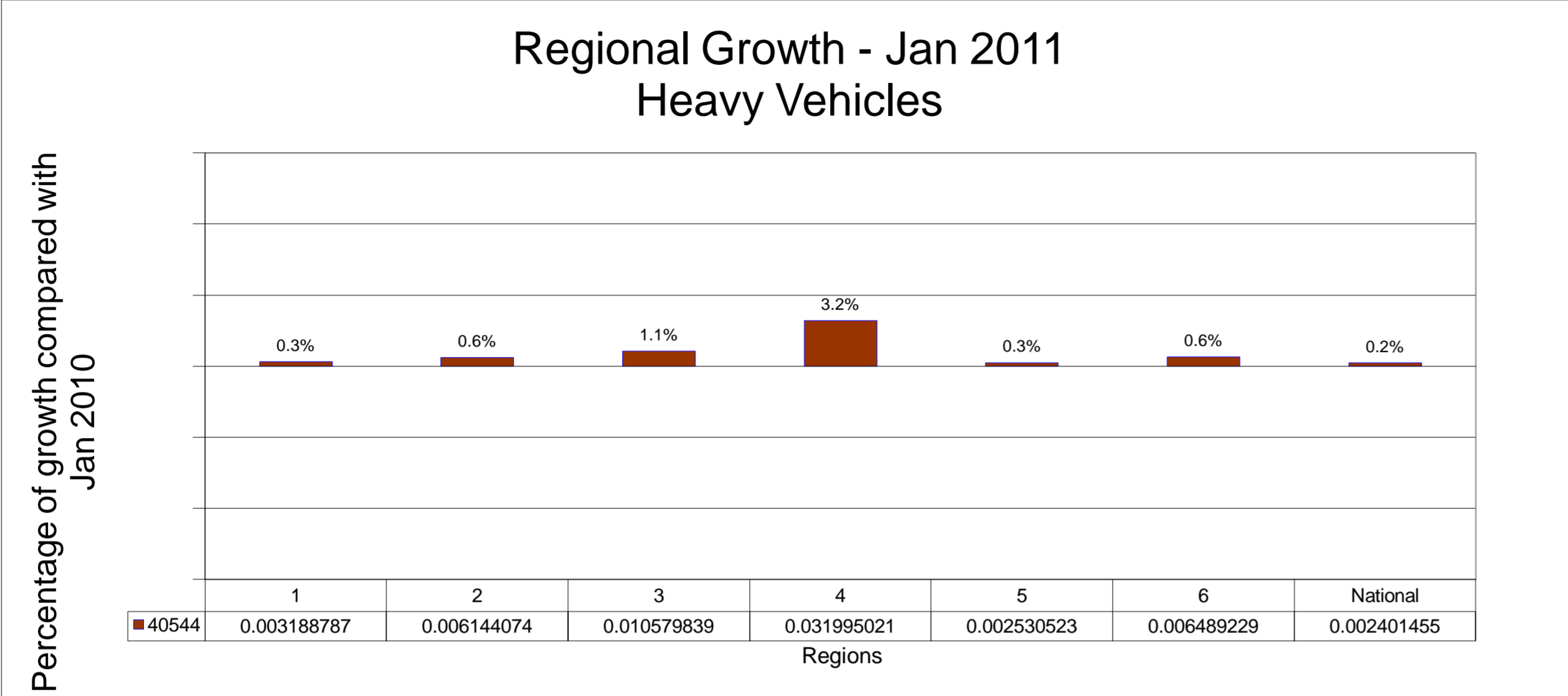


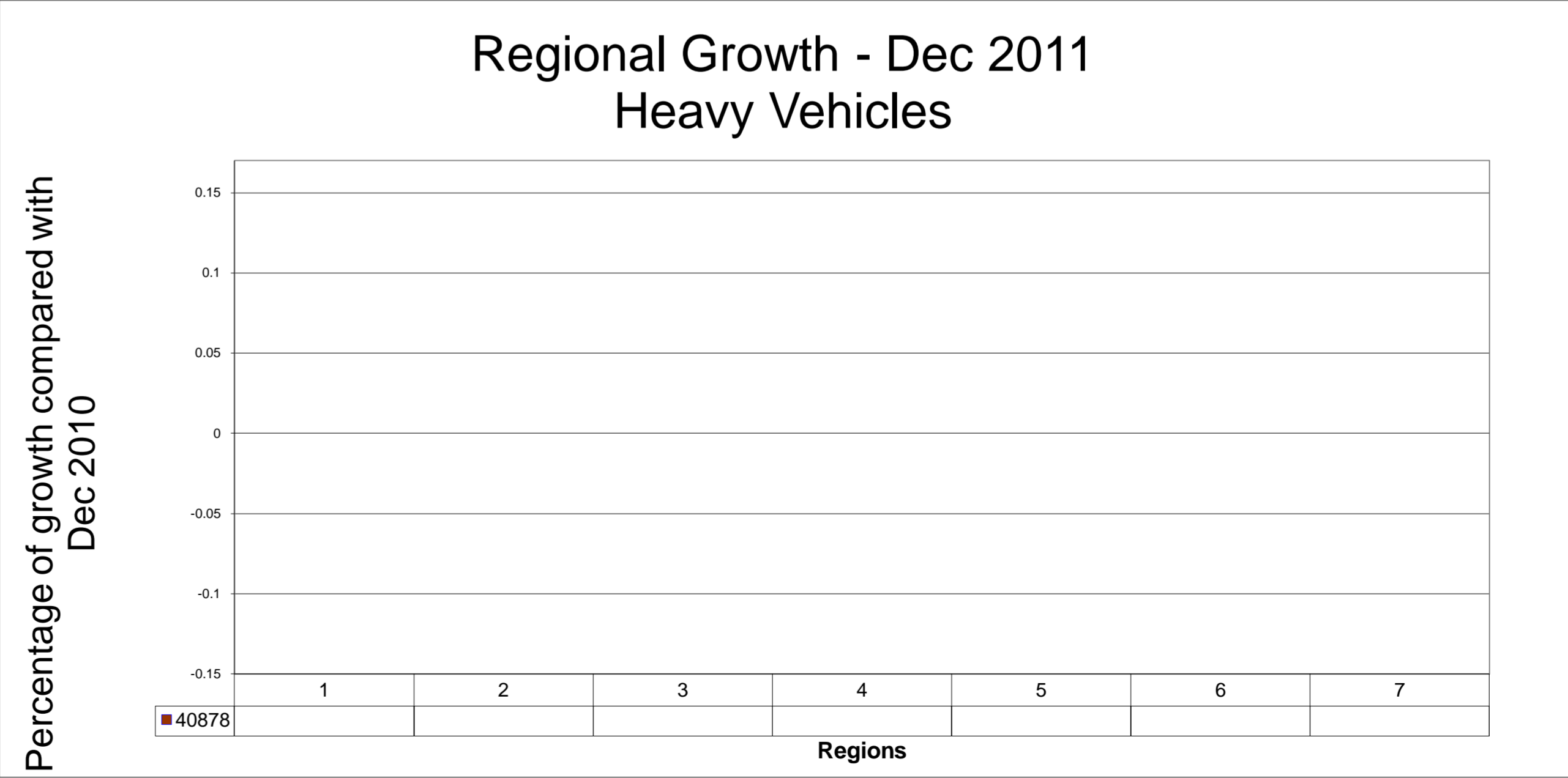
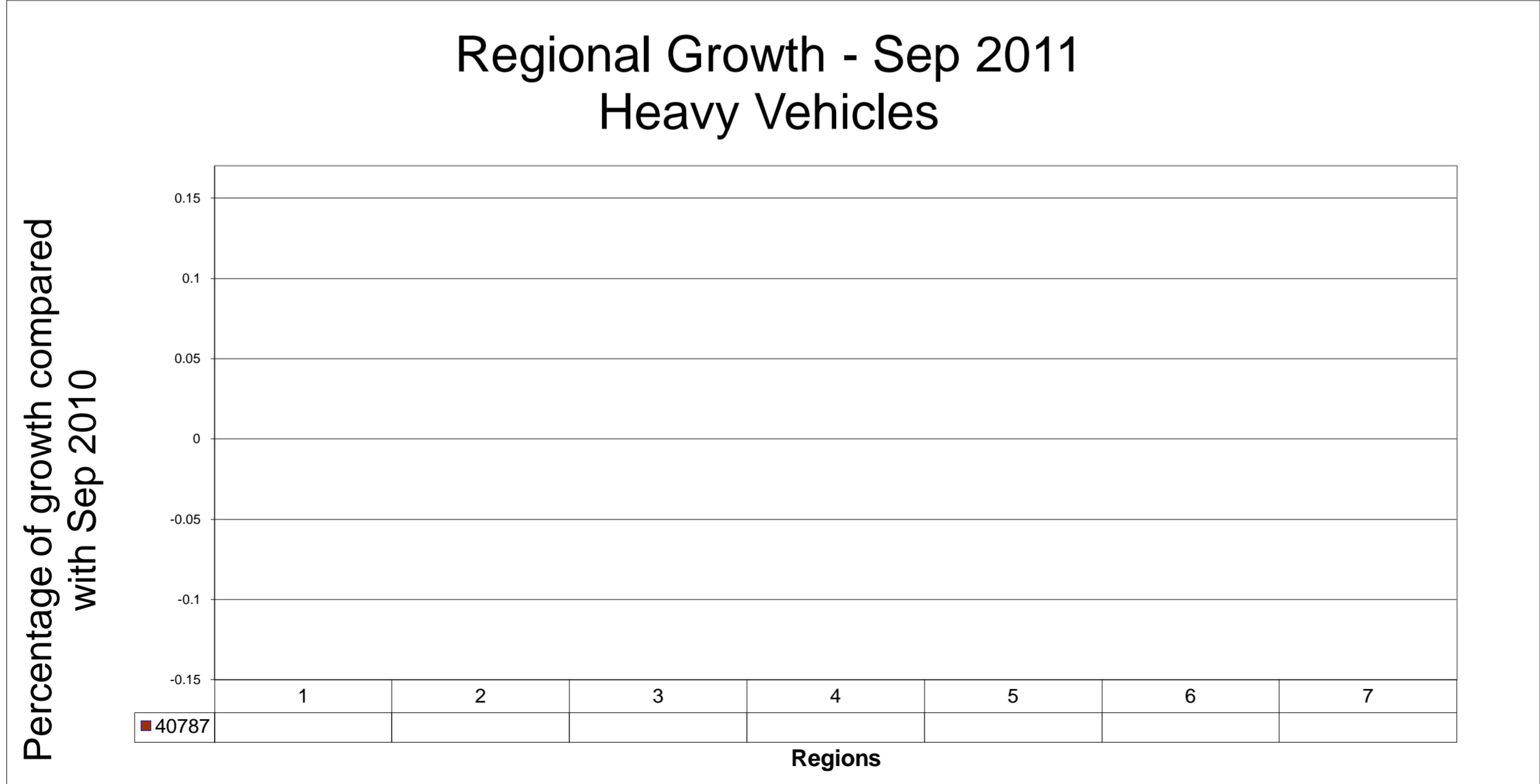
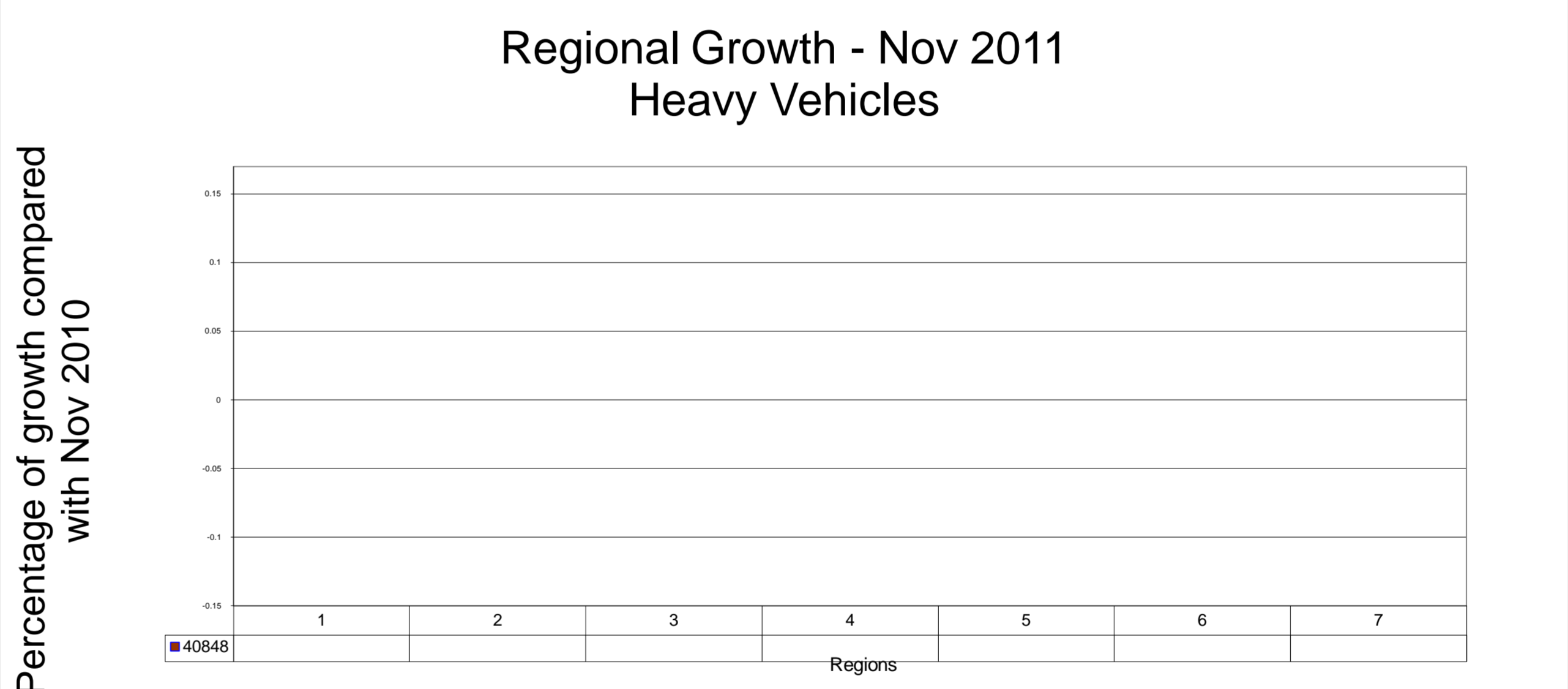
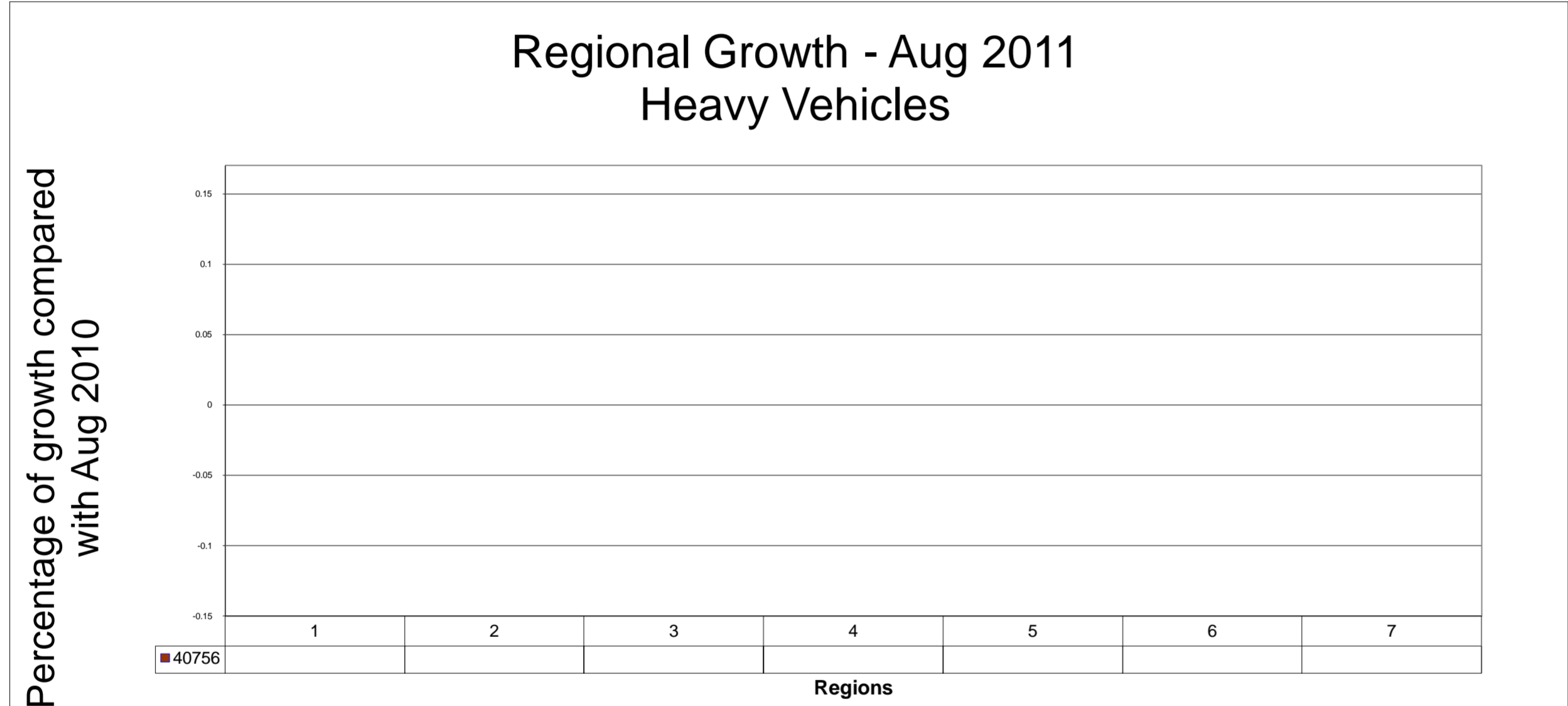
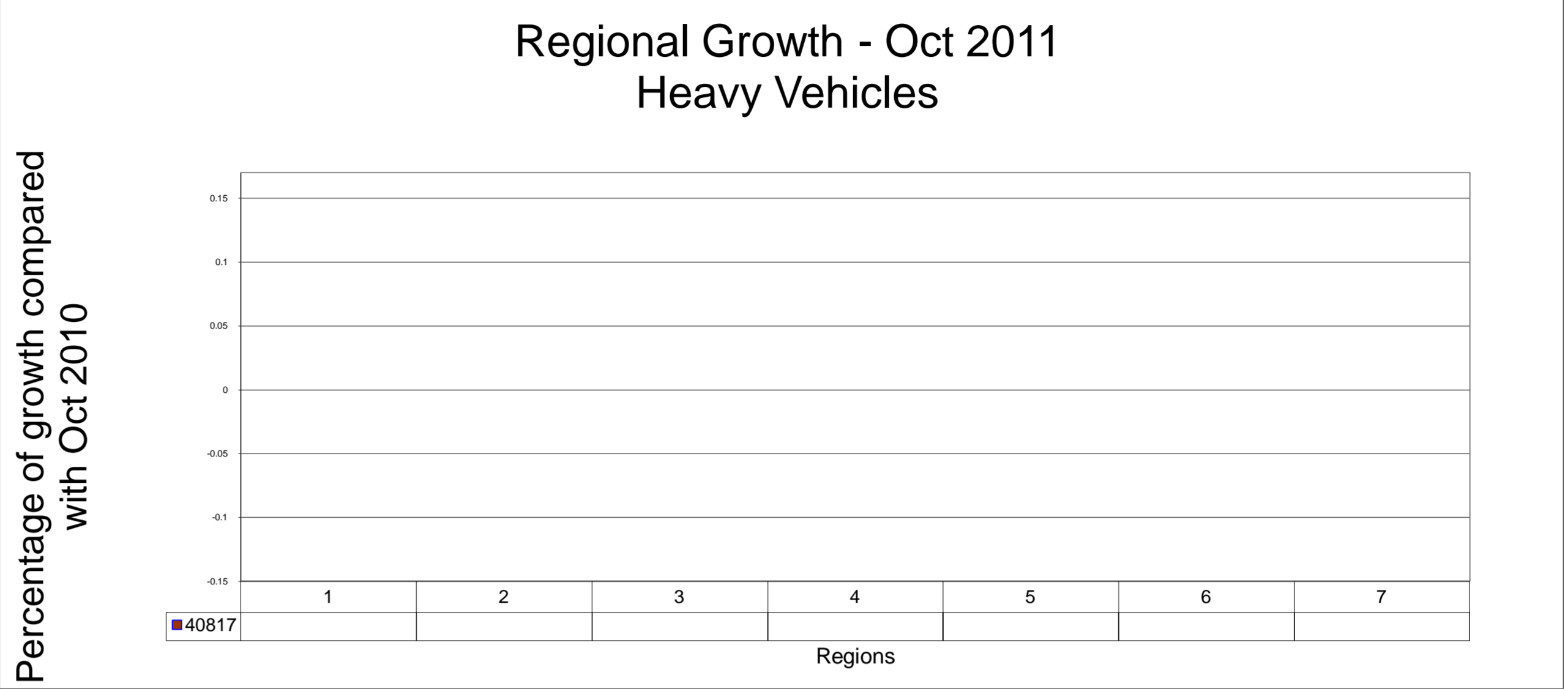
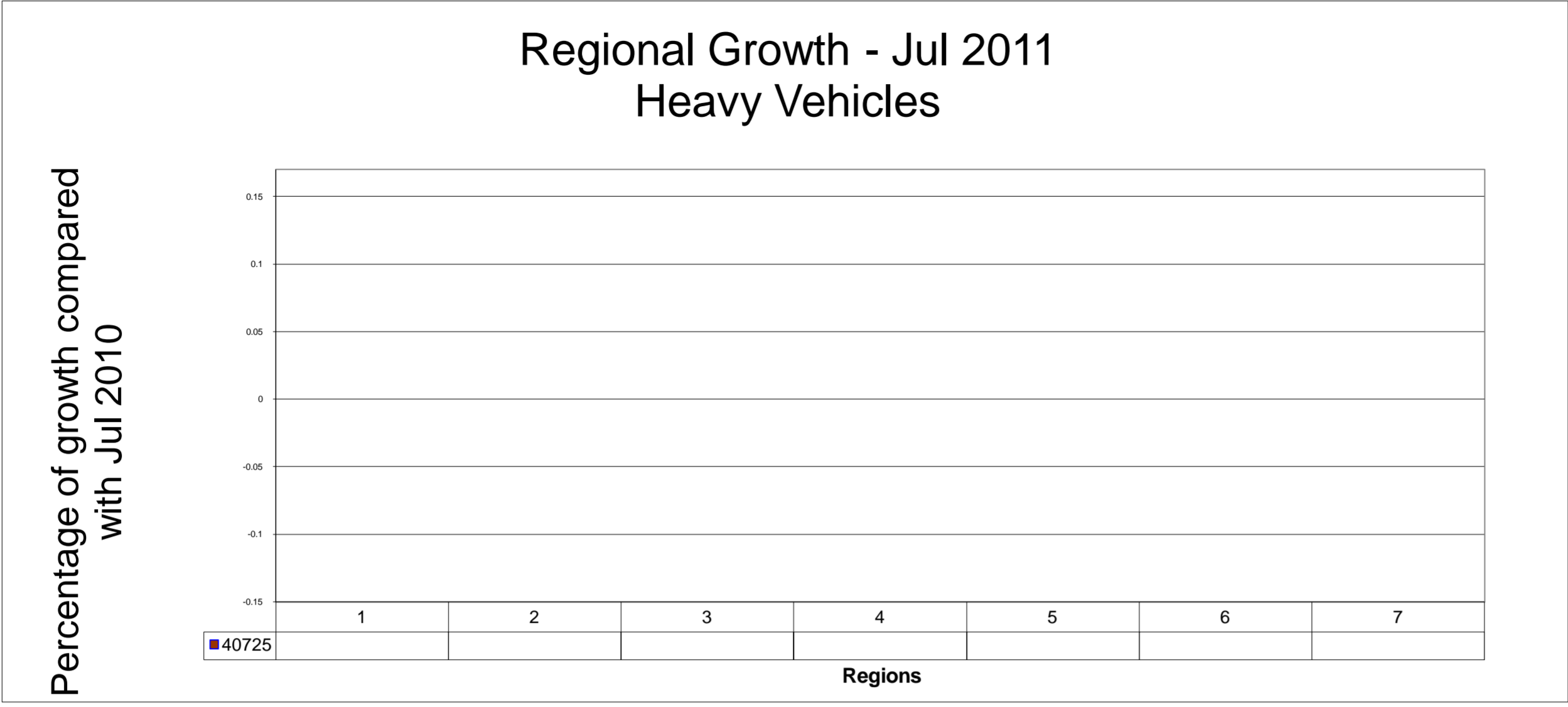
Regional Growth - Sep 2008  
All Vehicles



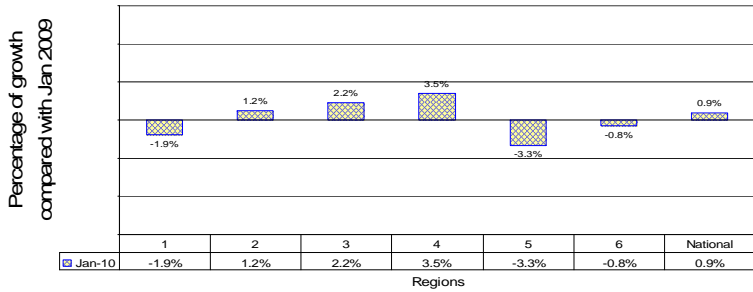
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All Vehicles



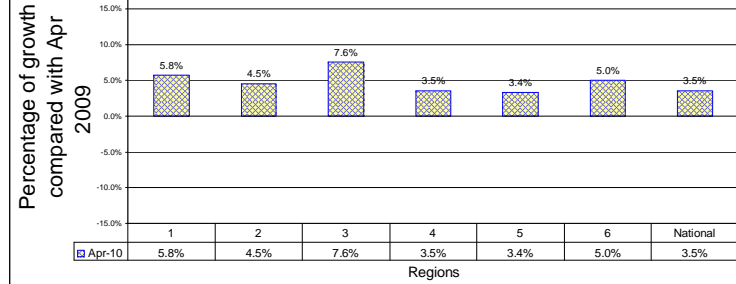




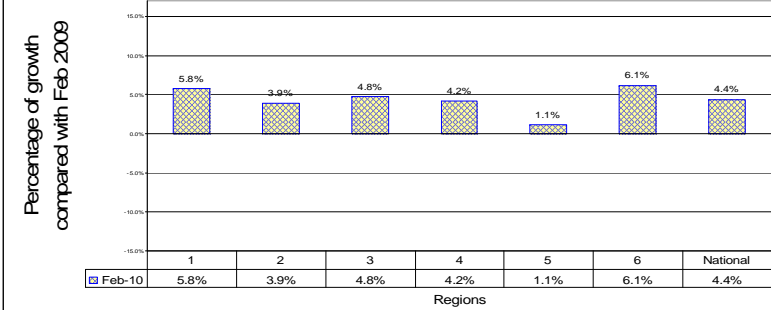
Regional Growth - Jan 2010  
Heavy Vehicles



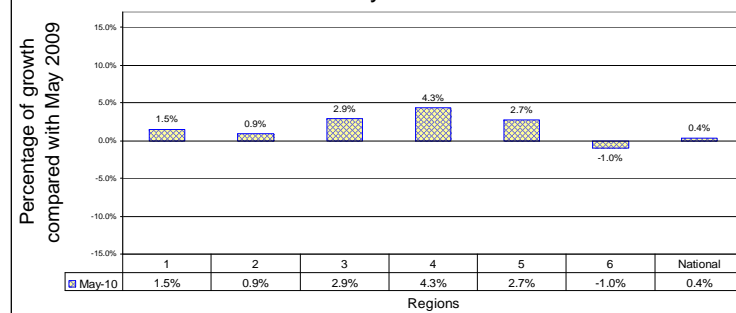
Regional Growth - Apr 2010  
Heavy Vehicles



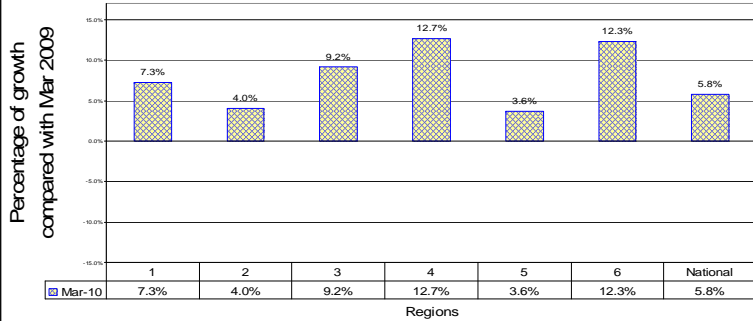
Regional Growth - Feb 2010  
Heavy Vehicles



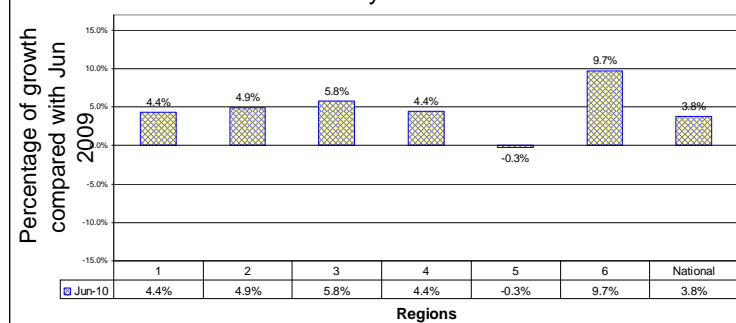
Regional Growth - May 2010  
Heavy Vehicles

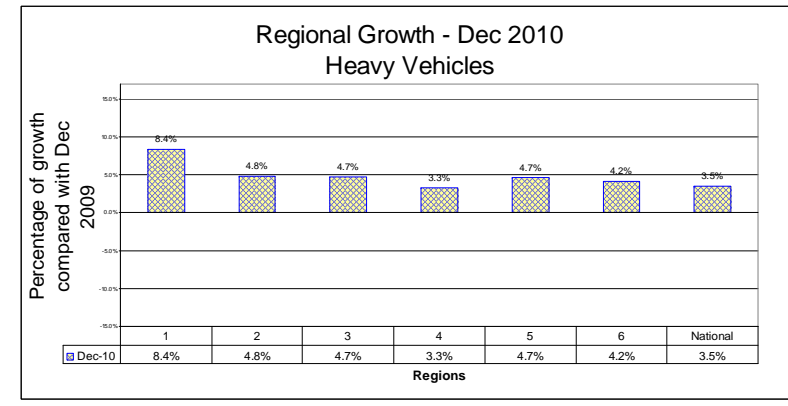
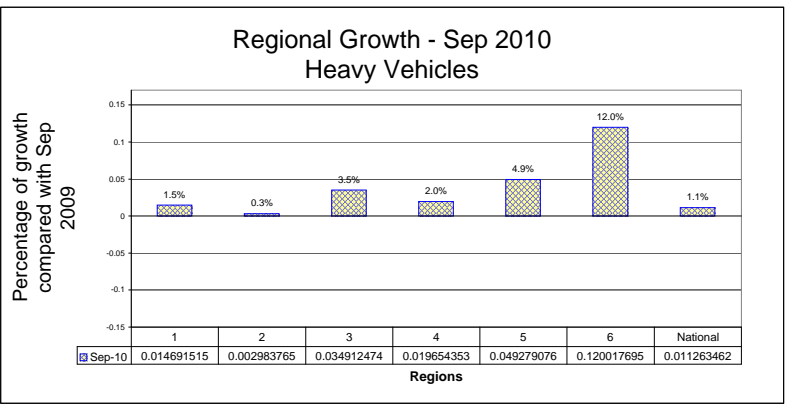
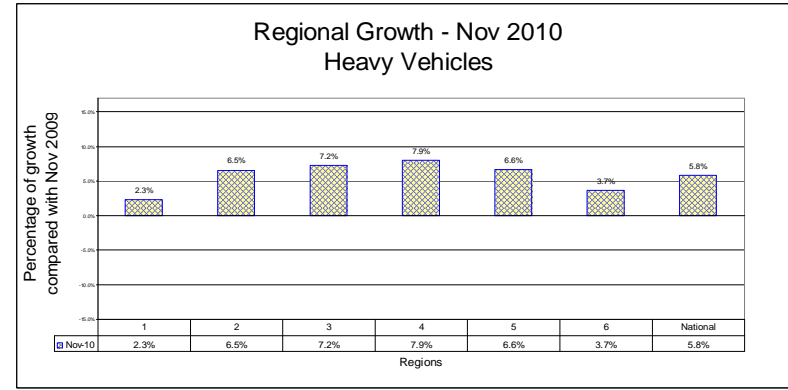
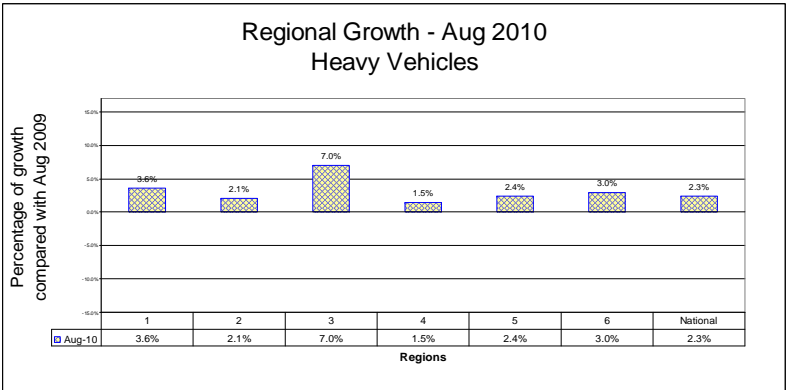
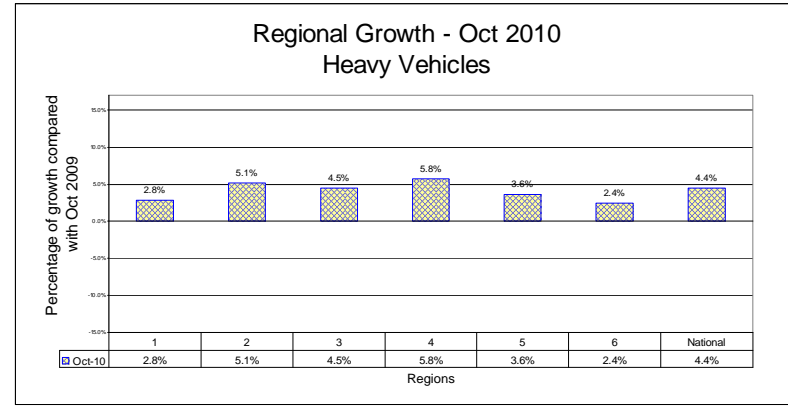
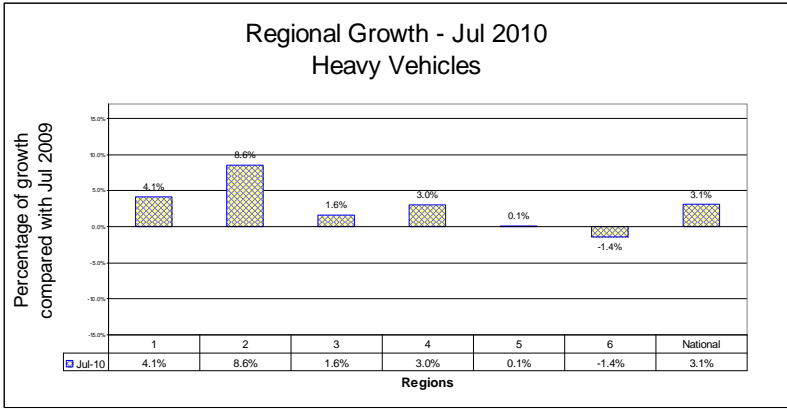


Regional Growth - Mar 2010  
Heavy Vehicles

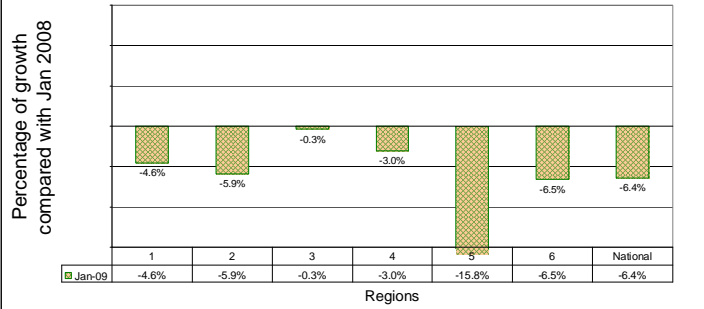


Regional Growth - Jun 2010  
Heavy Vehicles





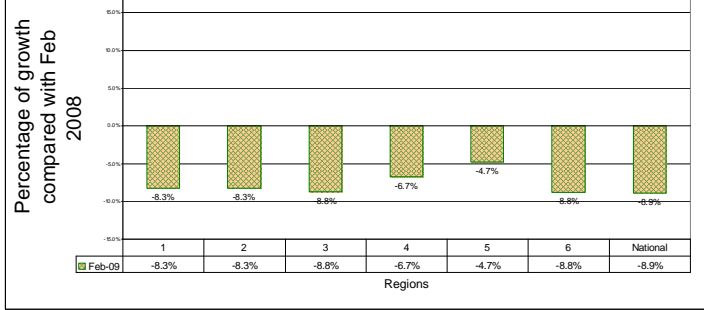
Regional Growth - Jan 2009  
Heavy Vehicles



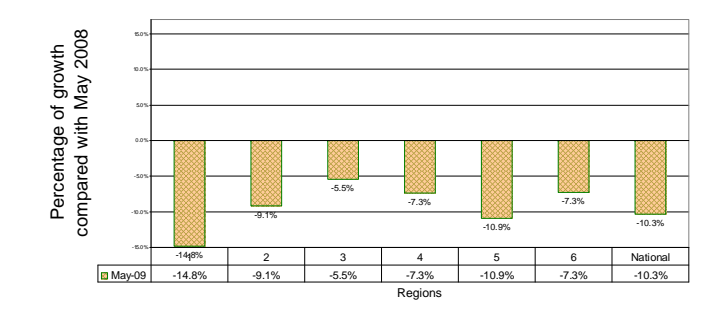
Regional Growth - Apr 2009  
Heavy Vehicles



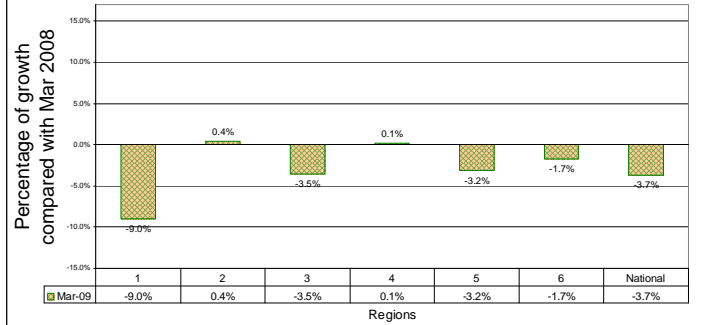
Regional Growth - Feb 2009  
Heavy Vehicles



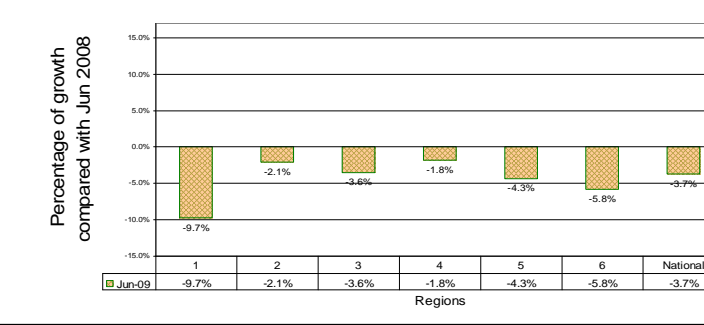
Regional Growth - May 2009  
Heavy Vehicles

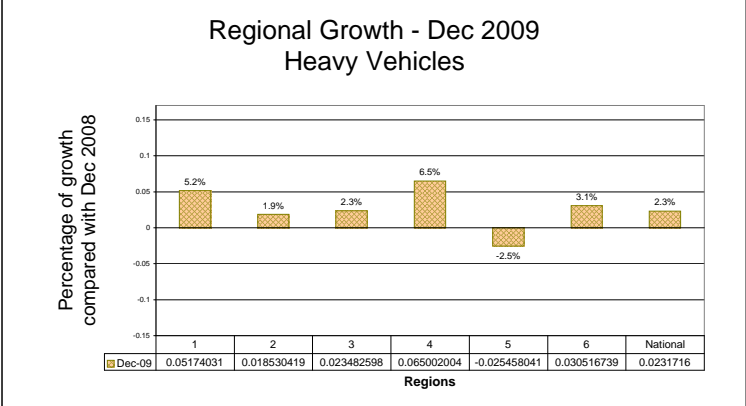
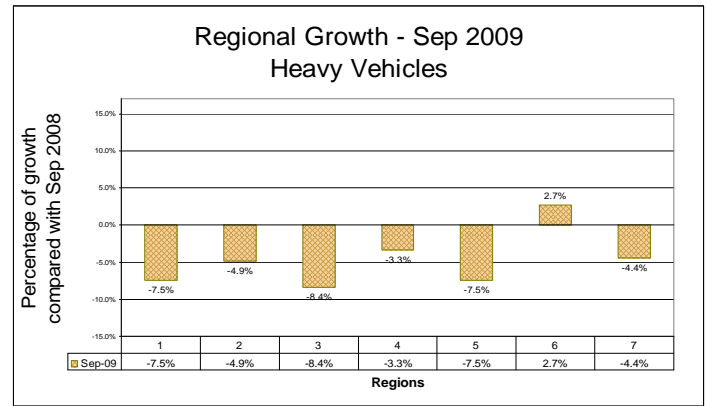
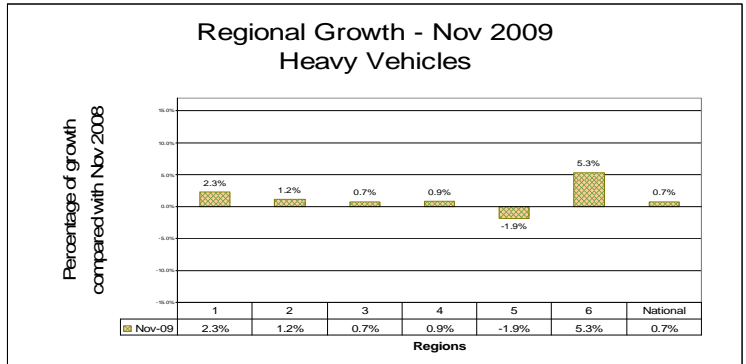
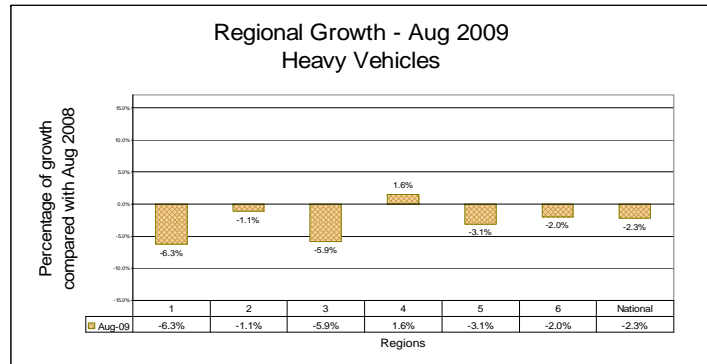
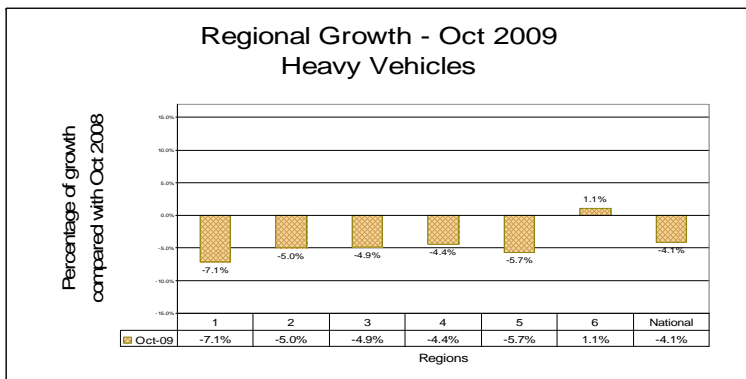
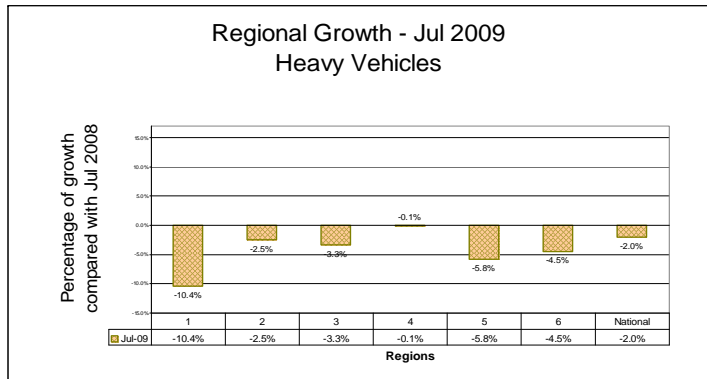


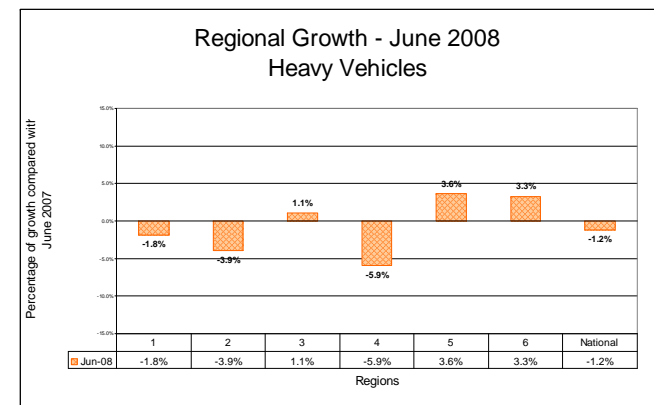
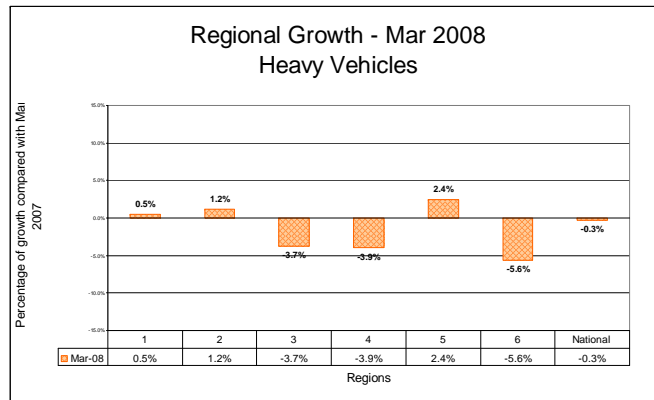
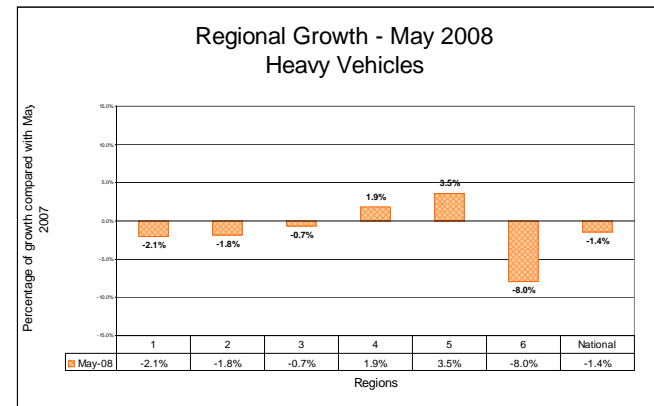
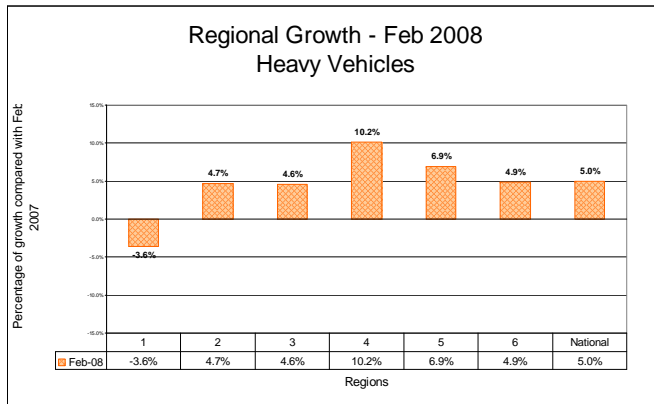
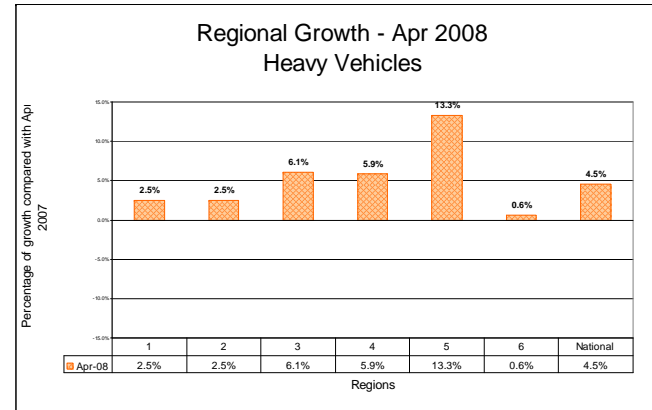
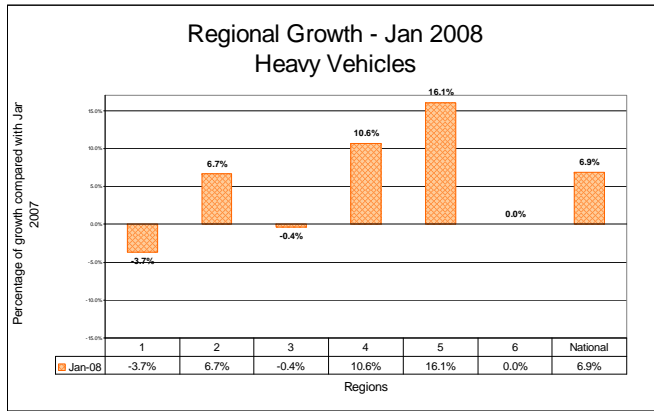
Regional Growth - Mar 2009  
Heavy Vehicles

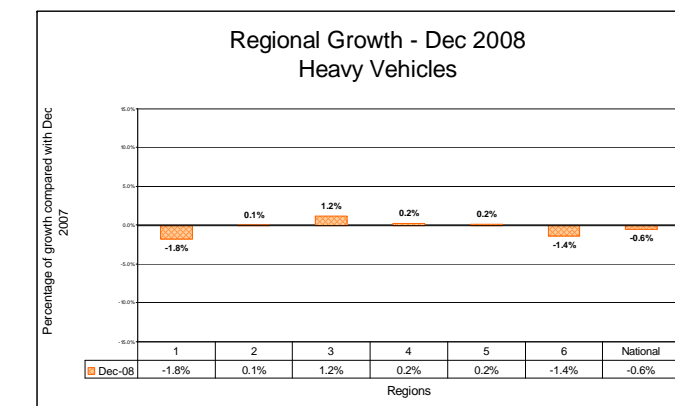
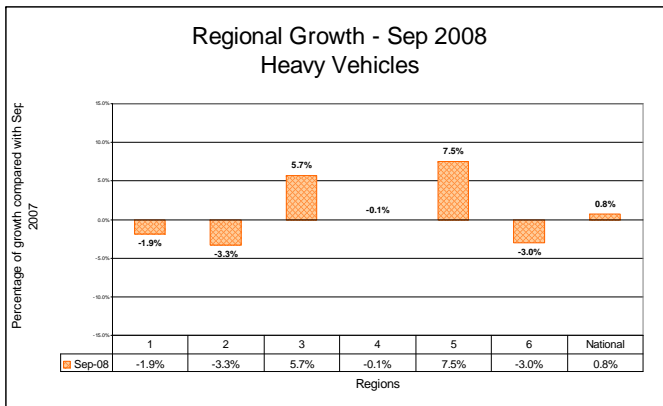
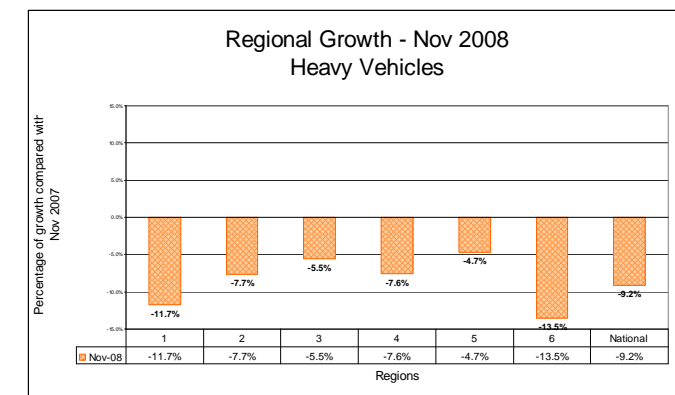
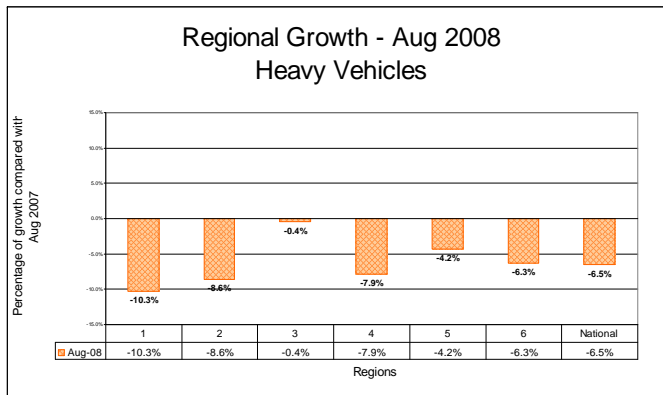
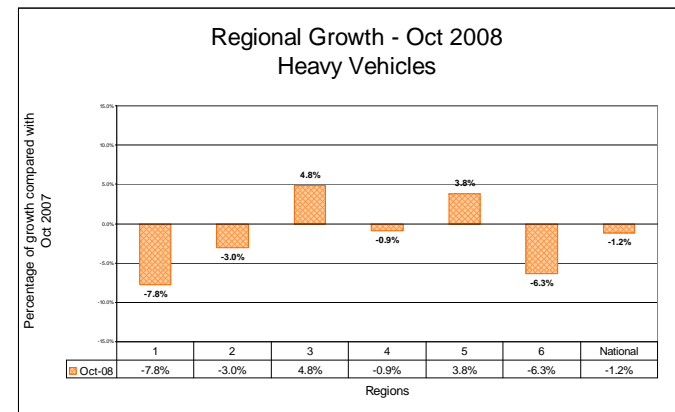
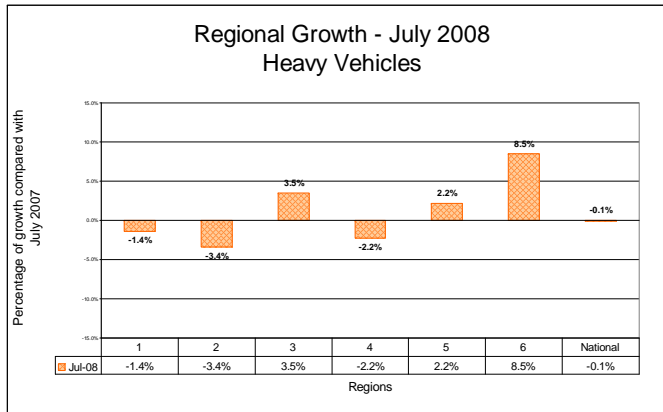


Regional Growth - Jun 2009  
Heavy Vehicles









## Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11
1	ID:01N00212	KAWAKAWA	7635	6772	6312	6452	5345	5351	5401	5159	5299	6147	6032	6969	7245
1	ID:01N00029	Sth of Takou Bay Rd		3994	3787		3085	3081			3149		3532	4670	
1	ID:01N00274	Nth of Maungakaramea Rd		14706	14424	14545				12234	12716			15383	
1	ID:01200220	East of Brynderwyn Brg 161			3037	2838	2595					2676	2786		
1	ID:01N00130	Nth of Ramseys Brg			1194	1197		998							
1	ID:01N00265	Sth of Selwyn Avenue		22947			22081			21546					
1	ID:01700006	HATFIELDS BEACH	7302	6473	5843	5829	5100	4862	5163	4802	4980	6060	5884	6486	6872
1	ID:01N10459	DRURY - SB (Park Estate)	30074	30620	30113	29833	27716	27361	28412	26845	27214	29305	30174	31548	29198
1	ID:01N20459	DRURY - NB (Park Estate)	30654	31181	30211	30070	27994	27475	28417	27078	27050	29555	30279	30307	30599
1	ID:01N00336	WELLSFORD - Nth of Mangawhai Rd	11878	10071	9173	9761	7941	7450	8127	7397	7456	9219	8737	10189	11778
1	ID:01N10440	PANAMA Rd - SB	56292	62318	63014	60094	59742			58579	56151			51665	49093
1	ID:01N20440	PANAMA RD - NB	54884	59272	59335	56952	56372			55162	55062			56064	53164
1	ID:01N10474	BOMBAY- SB		19253	17940	18975	16117	16237	17120	15551	16287	18448	18064	20399	19452
1	ID:01N20474	BOMBAY - NB		19199	18064	18935	16267	16211	16957	15689	15880	18409	18067	18936	20730
1	ID:01N00388	ALPURT	17735	15341	14062	14483	12291	11978	12661	11735	11944	14510	13997	16139	17725
1	ID:02000007	SH20 Puhinui Rd to Massey Rd		46258	47366	45277	45931	45537	46421	47044	51606	54229	57748	55895	49413
1	ID:01N00424	Auckland Harbour Brg - Centre Span	78228	83216	85638	79222	79507	78904	80092	76796	75033	75886	80207	75593	71873
1	ID:01N10424	Auckland Harbour Brg - Left Clip-on	30569	38195	38319	36956	38376	37096	37143	38957	40071	40220	41890	34846	31473
1	ID:01N20424	Auckland Harbour Brg - Right Clip-on	38134	42551	43334	40179	39868	36393	35581	37511	41253	41501	42320	43379	36469
2	ID:00200002	MAUNGATAWHIRI - West of Grahams Brg	17100	14336	13291	14240	11328	11300	12057	10854	11217	13769	13003	15574	
2	ID:25A00011	NEEVESVILLE -400m before Coromandel Forest Park Sign	5385	3854	3272	3694	2387	2401	2484	2260	2338	3354	3024	4355	5688
2	ID:02700011	KAIHERE	4697	4568	4352	4511	3862	3793	4060	3693	3786	4463	4341	4741	4690
2	ID:01N00526	TAUPIRI - Nth of Gordonton Rd	21086	21695	20928	21182	19257	19825	20438	19082	19269	20775	21355	21702	20747
2	ID:01N00620	LICHFIELD - Sth of Baldwin Rd		9579	9288	9741	8293	8340	8746	8017	8391	9314	9352	9841	9735
2	ID:00300085	TE KUITI - Nth of 8 Mile Junction	4334	4164	4108	4207	3677	3954	4316	3890	3837	4347	4001	4366	4287
2	ID:03200074	West of Taupo	995	835	747	854	591	665	771	651	692	764	736	766	864
2	ID:01N00580	KARAPIRO	15817	15706	15175		13671	14169	14169	13216	13346	14977	14953	15640	15796
2	ID:00200091	WAIHI - East of Samson Rd West	10169				6729	6641	6981	6347	6470	7877	7475	8928	9593
2	ID:01N00729	HALLETT'S BAY	7208	5849	5131	5805	4271	4381	5366	4522	4696	5479	5292	6031	6917
2	ID:01N00628	TOKOROA - (WIM Site)	9191	9007	8664	8797	7634	7703	8119	7545	7803	8366	8398	9364	9337
2	ID:01N90552	GREENWOOD	17695	20795	21881	21970	21625	22054	22065	21436	21577	22213	23253	22434	19910
2	ID:00200141	TE PUNA - West of Snodgrass	16951	17150	16646	16425	15876	15343	15603	14877	15140	16201	17039	17924	17369
2	ID:03010149	TE NGA - East End of Puarenga Brg (Inc)	16982	17512	17532	17016	16625	16588	16761	16166	16230	17127	17635	18134	16699
2	ID:03020149	East end of Puarenga Brg (Dec)	17222	17578	17542	17015	16716	16644	16825	16277	16357	17298	17861	17884	17000
2	ID:00200204	OHINEPANEA - West of Rogers Rd	5601	5067	4944	5117	4555	4344	4558	4230	4361	4976	4990	5389	5457
2	ID:03000188	LAKE ROTOMA	3677	3171	3056	3169	2753	2807	2868	2597	2690	2936	2932	3284	3504
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	4799	4379	4224		3836	3603	3854	3504	3589	4136	4137	4540	4946
2	ID:00500034	TARUKENGA - 4.7km West of Dalbeth Rd	5894	5463	5271	5731		4898	5183	4557	4632	5379	5182	5604	5663
2	ID:02900034	KAIMAI - 100m past Boulder Brg (Kaukumoutiti Stream)	10108	9676	9425	10014		8219	8361	7695	7737	8946	8882	9575	9526
2	ID:00500057	WAIPA - Sth of SH30	8545	7858	7557	7652	6574	6475	7001	6423	6652	7289	7359	7783	8166
2	ID:00200176	TE PUKE - (WIM Site)	19392	19596	19846	20172	19572	18109	18401	17771	17882	18749	19794	19977	18711
2	ID:00200242	AWAKERI	9084	8995	9228	9200	8332	8279	8634	8337	8607	8917	9327	9688	8874
3	ID:00200428	ORMOND	2745	2695	2620	2528	2185	2302	2229	2185	2166	2359	2435	2707	2472
3	ID:03500320	OKITU	4453	3634	3389	3410	2924	2900	2767	2732	2951	3194	3437	4271	4237
3	ID:00200627	TANGOIO	2446	2230	2103	2264	1898	1835	1808	1826	1790	2030	2079	2332	2447
3	ID:00500230	TE POHUE -1 km Nth of Oakmere Station Gateway		3337	2923	3142	1824	2382	2510	2237	2334	2819	2724	3136	3339
3	ID:05000010	Nth of Tutaekuri River	20841	22993	23557	22112	21287	21525	20567	20807	20809	20988	22820	22638	20807
3	ID:00300171	TONGAPORUTU Brg	2598	2287	2067	2308	1738	1915	1884	1679	1702	2170	2046	2273	2535
3	ID:00300267	TARIKI	8486	9172	9272	9155	8615	8615	8535	8288	8139	8756	9326	9203	8470
3	ID:00300370	WAITOTARA	3706	3737	3559	3696	3184	3066	3354	3116	3111	3580	3596	3702	3572
3	ID:04500101	OHAVE BEACH Rd	4074	4168	4050	3938	3557	3509	3535	3701	3812	4055	4382	4235	3880
3	ID:01N00930	SANSON	13158	13071	12605	13161	11581	11312	12099	11303	11247	12302	12397	13418	12778
3	ID:01N00988	OHAU	16592	16262	15384	15766	13843	13584	14519	13544	13690	15117	15098	16237	16029
3	ID:00200755	NORSEWOOD	4779	4448	4195	4376	3484	3351	3495	3270	3383	4031	3848	4482	4589

Telemetry Site MADT All Vehicles

NZTA Region	Site Ref	Description	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11
3	ID:00300489	MANAWATU GORGE	7469	7412	7074	7277	6492	6224	6742		5595	6538	6754	7397	7351
3	ID:00400133	HOROPITO	2145	1981	1759	1957	1418	1845	2393	2178		1933	1677	1888	2069
3	ID:00400226	UPOKONGARO	2229	2194	2058	2084	1769	1731	1862	1707	1763	2011	2029	2133	2064
3	ID:01N00827	HIHITAH	5965	5040	4397	5154	3765	3996	4571	3919		4711	4515	5128	5777
4	ID:01N11068	NGAURANGA	19697		23705	22655	22574	22181	22687	22369	22187	22576	23635	24121	21291
4	ID:00200895	CLAREVILLE - Nth of Whites Line	10246	11163	11143	10758	10294	9973	10180	9907	9926	10486	11040	11218	10499
4	ID:00200937	RIMUTAKA - Pukuratahi River Brg	6340	6068	5906	6161	5117	4880	5228	4839	4945	5863	5760	6299	6185
4	ID:01N01036	PUKERUA BAY - (Piezo Axle Classification)	24379	25212	24384	24329	22623	22234	23286	22096	23023	24134	24534	25586	24032
4	ID:01N21068	NGAURANGA -NB	18402		23547	22411	22501	21976	22314		21941	22440	23080	21809	19525
4	ID:05800009	Pauatahanui East	12980	14533	14710	14160	13819	13550	13739	13966	13608	14187	14892	14444	13097
4	ID:00210979	NGAURANGA - Sth Bound Lanes	18046		22429	21736	21878	21403	21869	21686	21369	21727	22773	23659	20048
4	ID:00220979	NGAURANGA - Nth Bound Lanes	16747		22860	21494	21644	21135	21475		21139	21590	22151	20919	18405
4	ID:00210965	KELSON - SB	15795	18112	18084	17461	17348	16965	17347	17314			18256	17450	15742
4	ID:00220965	KELSON - NB	14872	17238	17240	16687	16464	16188	16501	16244			17201	16769	14701
4	ID:00600122	STOKE - Whakatu Drive at Songer St	21947	22527	22332	21331	20576	20161	20014	19981	20028		22696	22595	21563
4	ID:00600232	MURCHISON	2717	2354	2037	2073	1345	1273	1363	1262	1383	1720	1830	2148	2675
4	ID:06000100	HIRA	4092	3953	3718	3475	2882	2821	2763	2788	2843	3219	3379		
4	ID:06000040	SH60 Riwaka	6311	5212	4261	3835	2869	2543	2467	2481	2603	3481	3835	4551	6340
4	ID:01S00037	Blenheim			3730	4242	3100	3068	3248	3184	3204	3454	3696	3778	4439
4	ID:06300096	ST ARNAUD			393	392	264	219	242	227	253	327	356	419	481
5	ID:01S00389	DUNSANDEL	10746	10959	10637	10970	9050	8840			9187	10196	10447	10927	10665
5	ID:01S00505	EVANS St Timaru	20106	20955	20770	20510	19086	19085	19189	18847	19292	20143	20982	21937	19925
5	ID:07300064	Springfield - West of Township	1986	1951	1518	1779	1258	1281	1702	1568	1227	1643	1612	1726	1952
5	ID:01S00144	KAIKOURA - Nth of Hapuku River	3662	3195	2686	2826	1908	1849	1974	1858	1977	2349	2553	2997	3371
5	ID:01S00522	ST ANDREWS			6169	6270	5129	5188	5237	4911	5215	5735	5799	6217	5901
5	ID:00700108	LEWIS PASS	1842	1430	1251	1373	884	874	947	864	846	1151	1142	1373	1750
5	ID:07409005	QE II Drive East Of Main Nth Rd	17299	19488	19443		18441			18005		19206	19819		
5	ID:01S00285	WAIPARA - (WIM Site)	9235	8382	7898	8380	6374	6243	6584	6179	6441	7668	7609	8408	9059
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB	19696	20702	20456		18703	18310	18712	18885	19201	19648	20440		
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB	18599	19603	19391		17793	17411	17813	18067	18387	18824	19625		
5	ID:00800059	FAIRLIE	2993	2487	2435	2546	1590	1599	2087	1876	1835	1992	2101	2535	2807
5	ID:00600454	CHESTERFIELD	3297	3363	3389	3027	2501	2374	2442	2384	2506	2810	3106	3124	3263
5	ID:00700239	AHAURA	1368	1446	1390	1331	1169	1099	1105	1077	1141	1277	1280	1340	1349
5	ID:00600398	PUNAKAIKI - Just Nth of Canoe Creek	1388	1392	1190	1048	762	674	713	689	727	967	1073	1113	1325
6	ID:00800336	ALEXANDRA - Sth Near Butchers Dam	2808	2373	2157	2439	1821	1833	1839	1881	1878	2088	2023	2376	2666
6	ID:01S10713	BURNSIDE - Sth Bound	13921	16199	16270	15587	15363	15699	15640	15456	14354	15613	16447	15283	13683
6	ID:01S20713	BURNSIDE - Nth Bound	9589	11196	11206	10828	10868	10774	10798	10572	9751	10640	11205	10379	9476
6	ID:01S50713	BURNSIDE - On Ramp - Nth Bound	2262	2631	2586	2477	2526	2543	2559	2515	2374	2602	2707	2499	2272
6	ID:01S60713	BURNSIDE - Off Ramp - Sth Bound	2767	3328	3218	3037	3117	3137	3102	3130	2915	3200	3419	3032	2794
6	ID:01S40713	BURNSIDE - Off Ramp - Nth Bound	2982	3468	3442	3285	3393	3365	3279	3318	3094	3333	3533	3106	2845
6	ID:01S40714	Burnside - Nth Bound Off Ramp	1966	2302	2245	2096	2156	2135	2129	2174	2042	2231	2360	2123	1989
6	ID:01S00765	MILTON	6344				5696	5677	5623	5482	5449	6149	6304	6580	6285
6	ID:06A00001	FRANKTON	18442	18236	17460	17145	14999	15566	17640	17488	16049	15765	16710	17600	17977
6	ID:08500161	GALLOWAY	2340	2137	1980	2043	1741	1729	1745	1819	1841	1867	1949	2242	2238
6	ID:08800004	RAVENSBORNE	7792		8978	8364	8608	8434	8327	8468	8493	8700	9041	8734	7787
6	ID:01S00921	INVERCARGILL	9999	12000	12434	11401	11727	11433	11276	11293	10850	11112	12032	11420	9657
6	ID:00601147	WINTON	4529	4845	4801	4580	4520	4436	4365	4381	4236	4636	4873	4928	4313
6	ID:00601082	FIVE RIVERS	2505	2296	2078	2066	1430	1281	1351	1284	1310	1654	1897		
6	ID:01S00854	GORE	3928	4354	4095	4033	3690	3716	3685	3659	3626	3963	4307	4301	4060
6	ID:09400141	TE ANAU	1590	1520	1479	1209	796	626	652	671	704	995	1320	1423	1688

## Telemetry Site MADT Heavy Vehicles

NZTA Region	Site Ref	Description	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11
1	ID:01N00212	KAWAKAWA	773	743	724	683	586	587	571	589	612	705	751	724	739
1	ID:01000029	Sth of Takou Bay Rd		305	301		232	233			240		298	312	
1	ID:01N00274	Nth of Maungakamea Rd		1592	1650	1654				1289	1316			1549	
1	ID:01200220	East of Brynderwyn Brg 161			285	244	223					314	367		
1	ID:01N00130	Nth of Ramseys Brg			194	167		154							
1	ID:01N00265	Sth of Selwyn Avenue													
1	ID:01700006	HATFIELDS BEACH	283	268	254	238	202	184	187	176	196	244	258	267	249
1	ID:01N10459	DRURY - SB (Park Estate)	2159	2593	2740	2502	2314	2301	2244	2170	2330	2406	2698	2612	2294
1	ID:01N20459	DRURY - NB (Park Estate)	2082	2502	2613	2406	2212	2199	2138	2067	2201	2301	2590	2444	2250
1	ID:01N00336	WELLSFORD - Nth of Mangawhai Rd	1138	1086	1046	963	834	816	775	784	820	955	994	1001	1083
1	ID:01N10474	BOMBAY- SB		2239	2290	2087	1885	1877	1817	1764	1850	1972	2180	2143	1868
1	ID:01N20474	BOMBAY - NB		2228	2215	2102	1930	1923	1868	1798	1865	2034	2284	2132	2008
1	ID:01N00388	ALPURT	1623	1587	1483	1361	1147	1146	1125	1084	1173	1357	1410	1452	1440
1	ID:02000007	SH20 Puhinui Rd to Massey Rd		2558	2666	2499	2734	2809	3049	2849	3541	3428	3882	3603	3081
2	ID:00200002	MAUNGATAWHIRI - West of Grahams Brg	1712	1820	1896	1901	1562	1770	1964	1481	1502	1671	1850	1851	
2	ID:25A00011	NEEVESVILLE -400m before Coromandel Forest Park Sign	388	300	294	318	209	198	205	199	219	300	283	354	407
2	ID:02700011	KAIHERE	792	905	949	839	810	756	743	732	794	866	956	897	806
2	ID:01N00526	TAUPIRI - Nth of Gordonton Rd	1934	2240	2309	2074	1952	1952	1893	1859	1998	2108	2365	2175	1927
2	ID:01N00620	LICHFIELD - Sth of Baldwin Rd		1396	1567	1494	1317	1237	1242	1206	1402	1470	1610	1475	1326
2	ID:00300085	TE KUITI - Nth of 8 Mile Junction	618	701	746	680	660	632	597	583	618	687	758	701	629
2	ID:03200074	West of Taupo	115	118	123	122	107	118	123	99	104	117	118	99	94
2	ID:01N00580	KARAPIRO	1586	1681	1624		1383	1313	1315	1378	1463	1600	1721	1629	1566
2	ID:00200091	WAIHI - East of Samson Rd West	884				773	756	743	705	727	823	907	909	828
2	ID:01N00729	HALLETTS BAY	800	859	853	808	739	670	688	665	714	766	872	806	797
2	ID:01N00628	TOKOROA - (WIM Site)	1241	1393	1577	1360	1271	1174	1163	1237	1371	1359	1514	1461	1202
2	ID:01N90552	GREENWOOD	1303	1642	1746	1640	1587	1628	1610	1628	1650	1736	1978		1613
2	ID:00200141	TE PUNA - West of Snodgrass	1099	1233	1362	1296	1213	1084	1069	1014	1058	1139	1285	1166	1067
2	ID:03010149	TE NGA - East End of Puarenga Brg (Inc)	966	1075	1087	1000	931	922	905	872	920	986	1051	990	910
2	ID:03020149	East end of Puarenga Brg (Dec)	1017	1140	1151	1076	1020	1022	1006	970	1004	1076	1166	1009	960
2	ID:00200204	OHINEPANEA - West of Rogers Rd	725	766	793	773	727	660	683	699	753	852	889	761	752
2	ID:03000188	LAKE ROTOMA	376	387	405	395	348	352	338	322	336	345	389	347	369
2	ID:03300030	Sth of Maungarangi Rd Paengaroa	616	633	645		560	527	515	489	526	593	657	623	581
2	ID:00500034	TARUKENGA - 4.7km West of Dalbeth Rd	600	643	650	682		536	569	548	590	617	699	676	638
2	ID:02900034	KAIMAI - 100m past Boulder Brg (Kaukumoutiti Stream)	1136	1238	1332	1248		1062	1058	1058	1059	1171	1338	1311	1158
2	ID:00500057	WAIIPA - Sth of SH30	787	877	906	864	795	735	744	777	815	834	900	794	784
2	ID:00200176	TE PUKE - (WIM Site)	1561	1850	2003	1986	1983	1757	1731	1723	1793	1889	2111	1766	1544
2	ID:00200242	AWAKERI	763	810	900	786	673	647	671	630	695	733	811	760	699
3	ID:00200428	ORMOND	263	292	327	277	218	242	209	203	209	224	254	252	243
3	ID:03500320	OKITU	315	331	351	304	262	269	249	253	260	267	321	336	341
3	ID:00200627	TANGOIO	360	392	422	409	389	346	335	349	326	343	430	391	393
3	ID:00500230	TE POHUE -1km Nth of Oakmere Station Gateway		551	572	545	388	495	464	440	451	482	552	516	557
3	ID:05000010	Nth of Tutaekuri River	1380	1542	1802	1596	1426	1361	1208	1201	1221	1304	1508	1389	1325
3	ID:00300171	TONGAPORUTU Brg	385	407	404	407	360	335	335	334	333	393	444	409	375
3	ID:00300267	TARIKI	978	1043	1073	1002	924	825	818	848	899	1010	1087	1045	923
3	ID:00300370	WAITOTARA	532	563	547	613	511	442	430	505	511	600	668	601	561
3	ID:04500101	OHAWA BEACH Rd	520	511	479	392	294	262	293	407	530	613	599	518	491
3	ID:01N00930	SANSON	1441	1557	1579	1576	1447	1383	1361	1356	1418	1517	1693	1556	1488
3	ID:01N00988	OHAU	1428	1605	1628	1548	1457	1402	1402	1351	1417	1496	1677	1569	1466
3	ID:00200755	NORSEWOOD	610	653	696	674	549	516	474	484	523	595	678	628	633
3	ID:00300489	MANAWATU GORGE	834	886	895	841	757	706	649		654	749	863	808	794
3	ID:00400133	HOROPITO	288	322	338	320	272	323	279	270		281	312	303	299
3	ID:00400226	UPOKONGARO	173	200	195	170	142	133	141	131	142	151	176	161	154

## Telemetry Site MADT Heavy Vehicles

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3	ID:01N00827	HIHITAH	809	905	892	934	858	845	827	792		861	989	913	910
4	ID:01N11068	NGAURANGA	710		821	650	557	564	571	544	605	606	644	678	603
4	ID:00200895	CLAREVILLE - Nth of Whites Line	519	626	640	608	516	464	472	475	527	591	662	595	571
4	ID:00200937	RIMUTAKA - Pukuratahi River Brg	324	345	361	353	303	271	274	278	279	325	360	368	345
4	ID:01N01036	PUKERUA BAY - (Piezo Axle Classification)	1399	1674	1796	1666	1609	1605	1588	1534	1732	1714	1951	1814	1636
4	ID:01N21068	NGAURANGA -NB	641		740	700	676	670	681		718	716	730	689	634
4	ID:05800009	Pauatahanui East	733	810	814	572	522	499	517	531	519	565	629	562	528
4	ID:00210979	NGAURANGA - Sth Bound Lanes	646		773	694	665	699	684	679	667	713	798	803	690
4	ID:00220979	NGAURANGA - Nth Bound Lanes	559		781	714	704	723	709		716	746	803	712	639
4	ID:00210965	KELSON - SB	621	771	747	697	667	636	649	658			760	687	624
4	ID:00220965	KELSON - NB	533	682	678	605	574	550	562	557			647	599	518
4	ID:00600122	STOKE - Whakatu Drive at Songer St	1198	1372	1504	1366	1273	1205	1172	1123	1150		1404	1208	1246
4	ID:00600232	MURCHISON	372	340	323	298	240	208	208	212	292	282	317	314	384
4	ID:00600100	HIRA	472	554	556	519	448	428	402	407	456	465	495		
4	ID:06000040	SH60 Riwaka	364	341	317	276	208	161	138	155	168	229	265	272	367
4	ID:01S00037	Blenheim			608	754	500	455	461	463	476	555	602	639	656
4	ID:06300096	ST ARNAUD			41	44	41	28	31	28	77	41	47	40	44
5	ID:01S00389	DUNSANDEL	1442	1595	1604	1513	1277	1103			1315	1477	1621	1566	1513
5	ID:01S00505	EVANS St Timaru	1379	1566	1656	1462	1313	1157	1151	1255	1370	1511	1678	1573	1429
5	ID:07300064	Springfield - West of Township	216	252	205	213	172	153	153	174	149	215	226	210	227
5	ID:01S00144	KAIKOURA - Nth of Hapuku River	520	539	497	527	436	409	414	411	419	492	555	528	529
5	ID:01S00522	ST ANDREWS			1035	928	769	686	662	712	840	908	963	945	876
5	ID:00700108	LEWIS PASS	273	220	211	200	160	144	136	145	190	177	190	215	265
5	ID:07409005	QE II Drive East Of Main Nth Rd	475	583	578		477			459		636	582		
5	ID:01S00285	WAI PARA - (WIM Site)	1118	1224	1255	1196	1003	842	834	852	1001	1037	1132	1097	959
5	ID:01S10327	WAIMAKARIRI BRIDGE - SB	1109	1182	1157		962	982	983	1018	1201	1182	1274		
5	ID:01S20327	WAIMAKARIRI BRIDGE - NB	1010	1095	1063		882	884	892	944	1133	1117	1197		
5	ID:00800059	FAIRLIE	335	293	300	297	192	157	177	174	207	242	269	305	335
5	ID:00600454	CHESTERFIELD	346	364	363	312	250	198	202	234	308	385	410	355	356
5	ID:00700239	AHAURA	195	229	203	187	164	152	144	149	182	207	221	194	196
5	ID:00600398	PUNAKAIKI - Just Nth of Canoe Creek	131	140	128	106	76	58	62	75	94	111	139	122	128
6	ID:00800336	ALEXANDRA - Sth Near Butchers Dam	269	231	213	214	175	159	151	170	167	183	189	222	264
6	ID:01S10713	BURNSIDE - Sth Bound	759	922	926	870	737	1056			1054			981	761
6	ID:01S20713	BURNSIDE - Nth Bound	639	767	785	750	726	956			999			834	664
6	ID:01S50713	BURNSIDE - On Ramp - Nth Bound	94	117	117	106	108	117	115	112	111	131	135	111	111
6	ID:01S60713	BURNSIDE - Off Ramp - Sth Bound	177	214	211	192	196	207	204	208	197	225	231	193	185
6	ID:01S40713	BURNSIDE - Off Ramp - Nth Bound	192	211	209	195	193	190	188	186	184	197	211	178	179
6	ID:01S40714	Burnside - Nth Bound Off Ramp	68	86	75	69	73	78	76	80	70	82	83	71	73
6	ID:01S00765	MILTON	709				725	645	587	596	683	839	923	832	785
6	ID:06A00001	FRANKTON	1062	1077	1074	996	766	744	904	899	855	867	963	964	986
6	ID:08500161	GALLOWAY	119	105	113	115	110	88	88	104	105	106	166	113	136
6	ID:08800004	RAVENSBOURNE	464		528	467	453	438	420	422	413	516	536	512	453
6	ID:01S00921	INVERCARGILL	340	438	448	398	380	353	338	348	351	351	380	334	309
6	ID:00601147	WINTON	483	535	554	465	414	377	371	459	440	553	554	537	473
6	ID:00601082	FIVE RIVERS	260	263	258	219	167	127	133	137	141	186	238		
6	ID:01S00854	GORE	496	583	565	519	444	353	344	393	473	505	607	525	507
6	ID:09400141	TE ANAU	174	171	179	144	98	67	68	76	93	122	165	155	173