



**State Highway
Traffic Volumes
& Related Information**

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Preface

Traffic Monitoring provides a fundamental tool for the management of the State Highway network.

The measure of the traffic demand imposed on the network enables Transit New Zealand to effectively and efficiently allocate resources.

The information contained in this publication is derived from Transit New Zealand's Traffic Data Collection Network.

This consists of a hierarchy of equipment which ranges from sophisticated weight in motion and vehicle classification to simple traffic counters.

The weigh in motion and vehicle classification equipment is operated from the Head Office, Traffic Monitoring Groups continuous telemetry network, the balance is run via the regional traffic counting programmes.

Transit New Zealand welcomes any feedback on this publication. It is designed to be useful, we need to be advised of potential improvements.

Disclaimer

While every endeavour has been made with regard to the accuracy of this information, Transit New Zealand accepts no responsibility for any errors or consequences thereof.

Peter Davis
Traffic Monitoring Engineer

NOTES

1. STATE HIGHWAY - State Highway 1 is suffixed N and S for North and South Islands respectively.
2. DISTANCE - The approximate distance of the count in kilometres from the start of the highway.
3. AADT - Annual Average Daily Traffic Volume (estimated).
4. Some counts have a character following the volume column. These counts are of a greater accuracy because they are counted at a higher frequency.
 - T - Telemetry sites counted continuously.
 - W - Telemetry weigh in motion sites.
 - S - Control sites counted continuously.
 - C - Control sites counted one week per month.
5. Telemetry (T & W) sites are able to distinguish between long and short vehicles. Therefore the percentage of Heavy Motor Vehicles can be approximated at those sites. The number following the T or W denotes the approximate % HCV's (HMV's = vehicles greater than 3.5 tonnes gross).
6. Where a State Highway spans more than one Transit region, the approximate location of the boundary is shown.
7. More data on traffic composition, growths, loading and congestion is presented at the end of this publication.
8. A supplement to this publication is also available. This contains a summary of the 1992 to 1997 AADT's plus detailed summaries in the form of graphs and tables from the continuous telemetry sites.

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STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HMV
1F	19	Waitaki Landing Nth Te Hapua Rd	135	
1F	20	Waitaki Landing Sth Te Hapua Rd	350	
1F	45	Sth Te Ahu Rd	675	
1F	66	Houhora Sth of Salvation Rd	1190	
1F	69	Nth Lamb Rd	1430	
1F	69	Sth Lamb Rd	1320	
1F	96	Sth Beach Rd	1720	
1F	103	Nth Awanui Bridge	3550	
1N	4	Sth of Awanui, Brott's Road	5330	
1N	28	Victoria Valley	735	
1N	69	Waihou Valley	1410	
1N	90	Sth of S.H.12	3130	
1N	100	Sth of S.H. 10, Nth of Moerewa	4260	
1N	111	Sth of Kawakawa	4955	T 8
1N	144	Nth of Hikurangi Bypass	5960	
1N	154	Nth of Kamo at Kauri	7710	
1N	158	Whangarei Kamo Rd Nth of Station Rd	12840	
1N	160	Whangarei Kamo Rd Nth of Whau Valley Rd	20360	
1N	162	Whangarei, Wtern Hills Drive Sth of Percy	10830	
1N	163	Whangarei, Wtern Hills Drive Nth of Selwyn	16740	
1N	164	Whangarei, Wtern Hills Rd Sth of Central	15600	
1N	165	Whangarei Otaika Rd Sth of Tarewa Rd	20570	
1N	167	Whangarei Otaika Rd Sth of Rewarewa Rd	12930	
1N	170	Sth of Toe Toe Rd Nth of Portland Rd	10470	
1N	187	Nth of Ruakaka North at Flyers Rd	7860	
1N	210	Sth of Waipu	5330	
1N	227	Nth of Kaiwaka	7710	
1N	237	Nth of Te Hana (Wellsford telemetry)	6765	T 7
1N	258	Sth Wellsford	7790	
1N	270	Sth of Warkworth	12080	
1N	290	Nth of Hatfields Beach	13285	T 6
1N	293	Orewa Nth of Puriri	17070	
1N	295	Orewa South Bridge	30420	
1N	297	Silverdale Nth, Wainui Road	35980	
1N	303	Sth of East Coast Rd, Nth of Kahikatea Rd	18310	C
1N	313	Sth of Coastville Riverhead Rd	24610	
1N	316	Sth Albany, Nth of Bush Rd	24710	
1N	321	Auck N MW Tristram	62200	C
1N	323	Northcote to Tristram	83400	S
1N	330	Sulphur Beach northbound s of Stafford Rd	no count	W
1N	331	Auckland Harbour Bridge	144400	T
1N	338	Auck Southern M/W Khyber Pass to Gillies	193550	S
1N	343	Auck S M/W Penrose - Mr Wgtn n/b (McNab telem)	59550	T
1N	347	Auck S M/W Mt Wgtn - Otahuhu	109000	
1N	356	Auck S M/W Manakau to Manurewa	80550	C
1N	367	Auck S M/W Papakura - Dury (park Estate telem)	43860	T 7
1N	377	Auck S M/W Drury to Ramarama	no count	C
1N	371	Auck S M/W Ramarama - Bombay (Drury wim)	29920	W
1N	382	Nth S.H. 2 (Bombay telem from 95)	26550	T 10
1N	385	Auckland/Hamilton regional boundary		
1N	391	Mercer near Railway Station	12200	C
1N	415	Te Onetea Stockpile	11500	C
1N	427	South of Bells Crossing	17600	
1N	428	Huntly Bypass	13100	
1N	429	Huntly Nth of Tainui Bridge	15610	
1N	434	Taupiri North	15500	T 11
1N	438	Ngaruawahia South of Hopu Hopu Br	12900	
1N	446	Nth of Park Road	16200	
1N	448	Sth of Whatawhata Rd	15200	

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STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HMV
1N	469	Tamahere Motels	17200	
1N	473	Nth of Pickering Rd	15100	C
1N	484	Cambridge By-Pass Nth of Duke St	16200	
1N	491	Karapiro South of Karapiro Turnoff	11495	T 9
1N	515	Tirau North of Town Boundary	5900	
1N	517	Sth of Oraka Stream Bridge	9400	
1N	518	Sth of SH 5 junction	6100	
1N	524	South of Whites Rd	8750	
1N	531	Lichfield South of Baldwin Rd	8330	T 12
1N	540	Nth of Pokaiwhenua Bridge	7250	
1N	546	Tokoroa north (telem 98)	no count	W
1N	551	Tokoroa, s of Balmoral Drive	8000	
1N	556	Sth of Matarawa Stream Bridge	5250	
1N	600	Wairakei South of Palmer Mill Rd	4470	
1N	610	Taupo South of Huka Loop Rd	8300	
1N	613	Taupo North End of Control Gates	22400	
1N	616	Taupo North of SH 5 junction, Waipahihi	17500	C
1N	617	Taupo, Sth of SH 5 junction	15900	
1N	641	Halletts Bay	5050	T 12
1N	665	Turangi North of SH41	4720	
1N	676	Sth National Park Rd	3010	
1N	708	Hamilton/Wanganui regional boundary		
1N	708	Desert Road	3630	
1N	739	Hihitahi near Deacons Rd	4030	T 14
1N	752	Taihape Hautapu	4440	
1N	755	Taihape North	4850	
1N	761	Utiku North	5170	
1N	778	Mangaweka North	4980	
1N	795	Huntermville North Vinegar Hill Rd	4960	
1N	821	Rata South At Mangaraupi Bridge	5010	
1N	831	Bulls North of Greatford	4290	
1N	843	Bulls North	5850	
1N	845	Bulls Rangitikei River Bridge	11570	
1N	846	Ohakea Culway station southbound	no count	W
1N	846	Ohakea Culway station northbound	no count	W
1N	847	Sanson West	11030	T 10
1N	858	Carnarvon South of Campions Line	4430	
1N	872	Himitangi South of SH56	7720	
1N	882	Foxton South	8060	
1N	898	Levin Kawi Rd - Gordon Pl	9590	
1N	902	Levin South of Town	12160	
1N	903	Levin South of Kimberley Road	(1996) 13280	
1N	906	Ohau Overbridge	13020	T 7
1N	915	Wanganui/Wellington regional boundary		
1N	919	Otaki Nth Waitohu Stream Bridge	12300	
1N	922	Otaki Otaki River	13900	
1N	940	Paraparaumu North Near Kapiti Lookout	20600	
1N	949	Paekakariki Mckays Crossing	21700	
1N	954	Pukerua Bay north (Paekakariki South)	20610	T 5
1N	965	Plimnerton Taupo Swamp	22400	
1N	969	Paremata Bridge	28100	
1N	971	Papakowhai	30700	
1N	977	Wellington northern M/W Porirua - Tawa	35100	
1N	981	Grenada	46400	
1N	984	Wellington MIW J'ville Bypass	35900	
1N	986	Wellington Ngauranga Gorge	61400	
1N	987	Ngauranga S/B	19750	T 2
1N	987	Ngauranga N/B	(1996) 18740	T 2
1N	990	Wgtn M/W Thorndon Flyover	60000	
1N	992	Wgtn M/W Hawkestone Thru Lanes	44200	C

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STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HMV
1N	992	Hawkstone Off ramp south	3300	
1N	992	Hawkstone On ramp south	4600	
1N	992	Tinakori On ramp north	2900	
1N	992	Tinakori Off ramp north	6700	
1N	993	Wgtn M/W Terrace Tunnel	40100	
1S	7	Picton - Blenheim Koromiko	4380	C
1S	27	Blenheim North	8320	
1S	28	Blenheim St Andrews	4750	
1S	50	Seddon North, Dashwood	2870	
1S	90	Wharanui Ben More	1840	
IS	90	Wellington/Christchurch regional boundary		
1S	116	Clarence, North of Clarence River	1360	
1S	144	Kaikoura North of Hapuka River	1800	T 12
1S	156	Kaikoura outside MWD depot	3830	
1S	163	Kowhai River Bridge, Nth of Route 70	1720	
1S	180	Oaro Bottom of Hundalee Hills	1720	
1S	212	Parnassus Just North of Leader River	1930	
1S	229	Cheviot Township	2420	
1S	245	Hurunui River 1.5km North	2270	
1S	284	Waipara North of SH7 Junction	3030	
1S	287	Waipara south of SH 7 n of Glasnevin Weigh Pit	5400	W 10
1S	295	Amberley	7700	
1S	301	Leithfield	5800	
1S	308	Ashley River North Of Saltwater Creek	5800	C
1S	313	Waikuku	7850	
1S	316	Woodend at school	11300	
1S	317	Woodend South Of SH72 Junction	12600	
1S	322	Kaiapoi N/M'way at Cam Rd Underpass	7600	
1S	327	Christchurch Northern M/W Twin Br	27800	S
1S	330	Christchurch South Of Belfast Hotel/Dickies Road (1996)	23000	
1S	332	Christchurch Nth of Johns Road Belfast	29900	
1S	333	Ch'church Johns Rd East of the Groyne	11400	
1S	337	Ch'church Johns Rd East of Sawyers Arms	9200	
1S	339	Ch'church Harewood & McLeans Rd	13450	
1S	340	Ch'church Nth of Memorial Rd	16200	C
1S	343	Ch'church Nth of Ryans Rd (1996)	18000	
1S	345	Ch'church Sth of Steadman Rd	14650	
1S	347	Ch'church Sth of Carmen Rd	15350	
1S	349	Ch'church Sth of Halswell Jn Rd	14850	
1S	352	Christchurch Sth Templeton	12400	C
1S	373	Burnham (1996)	8200	
1S	384	Dunsandel North of Hotel	6700	
1S	389	Dunsandel telemetry (1996)	6355	T 12
1S	401	Rakaia	6850	
1S	406	Chertsey	6150	
1S	428	Ashburton Nth Rail X'ing, Sth Golf Links Rd	7250	
1S	429	Ashburton West St, Sth Racecourse Rd (1996)	4700	C
1S	430	Ashburton West St Sth of Havelock St	8250	
1S	431	Ashburton North of Ashburton River Bridge	15200	
1S	440	Winslow	5100	
1S	455	Hinds	4550	
1S	466	Rangitata North of Store	4750	
1S	472	Orari	4350	
1S	482	Winchester South of Township	5900	C
1S	488	Vine St Nth of Wood St (1996)	6600	
1S	489	Temuka Just Nth of Temuka River	9000	
1S	500	Timaru North East of Racecourse Gates	8900	
1S	501	Timaru Hilton Highway, Nth of S.H. 8	10550	
1S	502	Timaru South of Washdyke Bridge	15450	

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1S	503	Timaru Between Washdyke & Showgrounds	14200	C
1S	504	Timaru telemetry, Evans St	18600	T 5
1S	505	Timaru Evans St Nth of Wai-iti Rd	(1996) no count	
1S	506	Timaru Stafford St Nth of Sefton St	(1996) 16000	
IS	507	Timaru Stafford St Sth of Sefton St	(1996) 10000	
IS	508	Timaru Stafford St Sth of Heaton St	(1996) 9600	
1S	509	Timaru King St Nth of Otipua Rd	9650	
1S	510	Timaru South of Saltwater Creek Br	6850	
1S	517	Pareora	4850	
1S	522	St Andrews 2km North of St Andrews	4560	T 12
1S	541	Hook North of Hook River	3750	
1S	567	Glenavy North of Township	2920	
1S	569	Christchurch/Dunedin regional boundary		
1S	580	South Of Waitaki River At Hilderthorpe	3720	
1S	584	Pukeuri South of Junction With SH83	5450	
1S	588	Oamaru Waitaki Ave – Virgil St	11610	
1S	591	Oamaru Nen St - Exe St	17220	
1S	593	Oamaru Old South Boundary	8400	
1S	595	Oamaru South of Deborah Subway	4520	
1S	624	Hampden North	2900	C
1S	656	Palmerston Pleasant Valley	4360	
1S	678	Kilmog	3860	
1S	685	Evansdale	4540	
1S	701	Dunedin Northern Motorway	4340	
1S	703	Great King St (Cumberland St) Near Willowbank	17790	
IS	705	Castle St, sth of Hanover St (southbound)	8175	
IS	705	Cumberland St, sth of Hanover St (northbound)	15940	
IS	706	Cumberland St, sth of Rattray St (southbound)	21030	
IS	706	Crawford St, sth of Rattray St (northbound)	15950	
1S	707	Andersons Bay Rd near Ardmore Drive	30560	
1S	708	By King Edward St Overpass	17260	
1S	711	Hudson St on Southern Motorway (southbound)	10250	
IS	711	Hudson St on Southern Motorway (northbound)	7245	
1S	712	Green Island North of Stevenson Rd	(1996) 3280	
1S	713	Southern Motorway Sth of Burnside Corner	no count	
1S	713	Southern Motorway Sth of Burnside O'Bridge	17430	
IS	713	Southern Motorway Kaikorai Off ramp	5410	
1S	716	Green Island Abbots Creek Bridge	19410	
1S	721	Mosgiel South of Junction With SH87	8380	
1S	765	Milton	(1996) 4680	T 10
1S	766	Milton Sth of SH8 Junction Clarksville	3350	
1S	786	Balclutha Bridge	10410	
1S	791	Balclutha Te Houka	2360	
1S	818	Clinton South of Cemetery	1440	
1S	856	Gore North Side	3520	
1S	857	Gore telemetry	(1996) 3470	T 9
1S	859	Gore	9450	
1S	861	Gore South of Charlton Road	5610	C
1S	875	Mataura South of SH96 Junction Brydon	3480	C
1S	899	Dacre Near Transmitting Station	3830	
1S	916	Invercargill South End of Kennington	5140	
1S	919	Invercargill North of Rockdale Rd	5360	
1S	921	East of Inglewood Rd	(1996) 8070	
1S	922	East of Queens Drive	11210	
1S	923	South of Forth Street	12620	
1S	923	Invercargill Telemetry	(1996) 10455	T 3
1S	924	South of Balmoral Drive	(1996) 7690	
1S	929	Invercargill South of Avon Rd	2480	
1S	935	Invercargill North Of Awarua Radio Stn	1890	

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2	2	Mangatawiri West of Grahams Bridge	11035	T 10
2	34	Nth of SH 25 intersection	8350	
2	37	Nth of SH 27 intersection	5800	
2	38	Mangatarata Hauraki Golf Course	2900	
2	52	Ngatea South of Parrys Corner	3290	
2	66	East of Awaiti Corner	3640	
2	91	Waihi West	6300	T 8
2	95	Waihi West of Waihi Beach Rd	6850	
2	99	Waihi East of Waihi Beach Rd	4200	
2	107	Athenree SE Of Gorge Near Rest Area	5500	
2	120	Katikati 1km East	8250	
2	137	Omokoroa South of Omokoroa Beach Rd	11200	
2	141	Te Puna (West of Snodgrass Rd)	11470	T 6
2	142	East of Snodgrass Rd	10700	
2	148	Tauranga East of Moffats Rd	15400	
2	152	Tauranga West of Mogomery Rd	33100	C
2	155	Tauranga Hairini Bridge	25100	
2	159	Tauranga Maungatapu Bridge	15500	C
2	166	Te Maunga Nth of Mangatawa Lane	14300	
2	170	East of Domain Rd Papamoa	12200	
2	176	Te Puke west, 0.1 km n of Manoeka Rd	14950	W
2	187	Te Puke Rangiuru Nth of Rail Bridge	11000	
2	204	Ohinepanea West of Rogers Rd	3920	T 16
2	225	Matata, Nth of Burt Rd	1840	
2	242	100m West of SH30 Owakeri	2660	
2	243	100m East of SH30 (White Pine Bush Rd)	1410	
2	258	South of White Pipe Bush Road	2910	
2	285	Whakatane SW of Ohope Rd	850	
2	286	Opotiki side of Ohope Rd	2690	
2	298	Opotiki West Near Kukumoa	3140	
2	308	Opotiki Nth of Matchit Rd	1250	
2	361	Hamilton / Napier regional boundary		
2	368	Nth of Motu Bridge	710	
2	429	Ormond 13 krn North of Gisborne Turnoff	(1996) 2195	T 10
2	452	Manutuke 16krn South of Gisborne	1385	
2	486	Nuhaka North at Tarewa Deviation	(1996) 1075	S
2	528	Wairoa North	1600	
2	541	Wairoa South	1300	
2	566	Top of Mohaka Hill	1050	
2	631	Tangoio	1570	T 13
2	637	North of Esk River	3495	
2	638	Napier South of SH5	5755	
2	647	Main Rd Nth, Sth of Watchman Rd	10005	
2	652	Georges Drive, South of Kennedy Rd	4535	
2	653	Marine Parade, South of Ellison St	9175	
2	658	Waitangi Tutaekuri Bridge, Awatoto	10050	
2	666	Hastings Mangateretere	8535	S
2	669	Karamu Rd Nth, Sth of Ellwood Rd	10325	
2	671	Hastings St Sth, Sth of Heretaunga St East	4205	
2	672	Southampton St, Wst of Karamu Rd South	9360	
2	674	North of Longlands Rd	2895	
2	678	Paki Paki North	2130	
2	682	Paki Paki South	5320	S
2	710	Waipawa North	4645	
2	716	Waipawa – Waipukurau	7100	
2	731	Takapau South of Maharakeke Bridge	3190	
2	751	Napier / Wanganui regional boundary		
2	755	Norsewood Underpass	3620	T 13
2	769	Dannevirke North	4950	
2	790	Oringi	4910	

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2	808	Woodville North of Ngawaparua River Bridge	3920	
2	814	Mangatainoka	4760	
2	831	Konini	3140	
2	857	Tankersleys Culvert	2780	
2	858	Wanganui / Wellington regional boundary		
2	862	Mt Bruce South at Ruamahanga River Br	2400	
2	892	Masterton South of Taratahi Road	8400	
2	903	Carterton South At Mangatarere Br	6800	
2	916	Tauherenikau River	4600	
2	937	Rimutaka North of Pukuratahi River	4200	T 5
2	949	Upper Hutt Brown Owl	14500	
2	952	Upper Hutt Sth of Totara Park	16000	
2	955	Upper Hutt Sth of Whakatiki St	17700	
2	958	Upper Hutt Silverstream	18200	
2	961	Upper Hutt Manor Park	27000	
2	963	Lower Hutt Sth of SH 58	28000	
2	969	Lower Hutt North of Block Rd	33000	
2	973	Lower Hutt Percy's Reserve	35000	
2	977	Wellington Petone - Ngauranga	58000	
2	979	Ngauranga S/B	21090	T 2
2	979	Ngauranga N/B (1996)	20470	T 2
3	1	Hamilton North of Collins Rd	23630	
3	4	Hamilton South of Dixon Rd	10800	C
3	11	Hamilton South of Airport Mystery Cr	9150	C
3	33	North of Tokonui Rd	7050	
3	38	Kihikihi South Near Te Kawa Turnoff	5350	
3	49	North of Kio Kio Station Rd	4090	
3	61	North of Waitomo Caves Rd	5700	
3	65	South of Waitomo Caves Rd	5300	
3	85	Te Kuiti North of SH4 Junction	3505	T 12
3	103	Piopio South of Hunts Rd	1690	
3	158	Hamilton / Wanganui regional boundary		
3	171	Tongaporutu River Bridge	2070	12
3	202	Waitoetoe North of Pukearuhe Rd	2300	
3	223	Waitara East of Borough	6370	
3	228	Waitara East of SH3A	11440	
3	229	Waitara West of SH3A	10330	
3	235	New Plymouth East Of Egmont Rd	20510	
3	244	New Plymouth Southern Motorway	7870	
3	258	South of Inglewood at Ngatoro Bridge	7670	
3	267	Tariki	6940	T 8
3	283	Stratford South Near Ngaere Rail O/B	4800	
3	303	Normanby North	5370	
3	306	Hawera Racecourse	8510	
3	321	Mokoia Manawapou River Br	4160	C
3	340	Patea South	3370	
3	353	Waverley North	3610	
3	372	Waitotara East near Russel Rd	3130	T 11
3	389	Wanganui North near Mission Rd	4080	
3	396	Wanganui Virginia Rd	6480	
3	401	Wanganui Cobham Bridge	8120	
3	403	Wanganui South at Marybank	8250	
3	410	Wanganui South near Marangai Rd	6800	
3	427	Turakina East near Makirikiri	5330	
3	443	Bulls North near MWD Depot	6100	
3	450	Sanson East	7480	
3	465	Palmerston North West at Taonui Culvert	7910	
3	470	Palmerston North East of Flygers Line	9100	
3	481	Palmerston North East near Te Matai Rd	7410	

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STATE HIGHWAY	DISTANCE	LOCATION	AADT	%	HMV
3	489	Manawatu Gorge	5880	T	10
3	498	Woodville West (1996)	5700		
3A	1	Waitara Near Te Arei Rd	2320		
4	4	400m South of SH3 junction	1560		
4	35	Hamilton / Wanganui regional boundary			
4	44	Mangatupoto West of SH40	1680		
4	65	Taumaranui North Near Okaihae Rd	1200		
4	74	Taumaranui Wanganui River Br (Matapuna)	3620		
4	90	Owhango Rail Overbridge	1960		
4	110	Raurimu South at Rail Overbridge	1530		
4	114	National Park South of SH47	1680		
4	133	Horopito	1620	T	11
4	163	Raetihi South near Ararawa Bridge	930		
4	189	Kakatahi South of Raupiu Rd	910		
4	218	Wanganui North at Upokongaro Stream Br	1040		
4	226	Upokongaro South	1860	T	7
4	232	Wanganui Pauls Rd	2300		
5	1	East of SH1 junction	2940		
5	5	East of White Road Intersection	3800		
5	34	Tarukenga	4380	T	9
5	46	Rotorua North of Fairy Springs	16700	C	
5	57	Waipa South of S.H. 30	6050	T	10
5	82	South of Waiotapu Tavern	3180		
5	125	Wairakei North of SH1	3190		
5	138	Taupo East of Crown Rd	2980		
5	190	Hamilton/Napier regional boundary			
5	230	Te Pohue	2210	T	14
5	257	Eskdale North of Yule Rd	3025		
6	3	Blenheim West Boundary	6930		
6	9	Woodbourne Airbase	4770	C	
6	18	Renwick Wairau River Bridge	2770		
6	60	Pelorus Bridge	2280		
6	100	Hira	2400	T	11
6	114	Nelson Northern Outlet	9750		
6	123	Nelson North of Hays Corner	14570	C	
6	124	Nelson South of Hays Corner	25000	T	4
6	128	Nelson Freezing Works	28580		
6	129	Richmond Bypass	13870		
6	131	Richmond Three Bros Corner	15330		
6	135	Brightwater Wairoa River Bridge	7660		
6	140	Brightwater SW at Spring Grove	5370		
6	155	Wakefield - Kohatu Spooners Hill	1880		
6	183	Korere	1180		
6	236	Murchison Nth Longford Bridge	1340	T	12
6	269	Wellington/Christchurch regional boundary			
6	292	Inangahua North of Township	710		
6	327	Buller Gorge Ten Mile Creeek	730		
6	340	Coast Rd Sth of Wilson Lead Rd	780		
6	398	Punakaiki Just Nth Canoe Creek Bridge	735	T	8
6	419	Rapahoe North Township	1200		
6	420	Runganga	1460		
6	426	Nth of Taylorville turnoff	3800		
6	428	Cobden	3420		
6	429	Grey River Bridge	7900		
6	430	East of Willis St	6900		
6	431	Greymouth Tainui St near Grogans Lane	11100		

Transit New Zealand Traffic Volumes

1998

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HMV
6	433	High St, South of Nelson	7300	
6	435	Fernhill to Loris Place	5650	
6	438	Paroa North of Paroa School	3770	
6	448	Kumara North of Junction with SH73	2450	
6	450	Kumara Junction Sth of Serpentine Creek	1940	C
6	454	Chesterfield telemetry	1990	T 9
6	468	Three Mile Nth of Hokitika	2700	
6	471	Hokitika Fitzherbert St Sth of Stafford	4150	
6	473	Hokitika Nth of Gold Links Rd	2050	
6	483	Ruatapu Just Sth of Township	900	
6	501	Ross at Fire Station	1050	
6	502	Ross Just Sth of Township	840	
6	548	Harihari Just Sth of Township	600	
6	577	Whataroa	600	
6	605	Franz Josef Glacier North of Stony Cree	530	
6	609	Franz Josef Sth of Fire Station	920	
6	751	Haast Just Sth of Haast River	250	
6	760	Haast West of Greenstone Creek	310	
6	814	Christchurch/Dunedin regional boundary		
6	853	Lake Wanaka Camp Creek Bridge	410	C
6	880	Hawea North Of Dam	480	
6	882	Hawera South of Dam	820	
6	892	Alberttown - before SH 84 junction	1970	
6	894	Wanaka South Of Cardrona River Bridge	1890	
6	939	Lowburn	1260	
6	946	Cromwell	1990	
6	970	Gibston - before Gibston Rd	1890	
6	980	Swiftburn - past Swiftburn Culvert	2320	
6	983	Crown Range near Whitechapel Rd	2730	
6	991	Shotover - before Lower Shotover Rd	3880	
6	993	Frankton North East of Junction	5620	
6	1000	Frankton South East of Junction	1300	
6	1076	Mid Dome	965	
6	1095	Lumsden	1420	
6	1117	Dipton	1220	C
6	1148	Winton	3290	
6	1149	Winton South	3455	T 8
6	1168	Lorneville South of Junction With SH99	8510	C
6	1171	Invercargill North of West Plains Rd	10600	
6	1172	North of Bainfield Road	17675	
6	1175	North of Victoria Ave	22440	
6A	2	Frankton	8860	C
6A	6	Queenstown	11770	
7	2	Waipara Straight NW Waipara Township	2420	C
7	14	Waikari NW of Township	1980	
7	26	Hurunui River	2050	
7	41	Culverden	2250	
7	44	Red Post South of SH70 Junction	1800	
7	45	Red Post North of SH70 Junction	1600	
7	67	Hamner Sth of SH7A Junction	1750	
7	68	Hamner Nth of SH7A Junction	1200	
7	108	Lewis Pass South at Engineers Camp	965	T 15
7	152	Springs Junction East of SH65	1150	
7	183	East at Reefton	370	
7	194	Reefton at cableway	640	
7	195	Reefton Broadway just West of Smith St	1150	
7	196	Reefton Sth of Inangahua River	1050	
7	222	Ikamatua	880	

Transit New Zealand Traffic Volumes

1998

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HMV
7	239	Ahaura South of Bridge	900	T 13
7	258	Stillwater	1220	
7	261	Brunner	1700	
7	268	Kaiata North of Greymouth	2100	
7	272	Greymouth	2950	
7A	0	Hamner Nth of SH7 Junction	1100	
8	5	Levels	2750	
8	12	Pleasant Pt West of Butlers Rd	2650	
8	14	Pleasant Pt	(1996) 900	
8	28	Cave	100	
8	55	Fairlie South East of Town	910	C
8	57	Fairlie Talbot St	1800	
8	58	Fairlie Ayr to Denmark St	1800	
8	99	Tekapo East of Township	1020	
8	100	Tekapo on bridge	1520	
8	149	Pukaki South West of SH80 Junction	840	
8	157	Lake Ruataniwha Spillway	890	
8	159	Christchurch/Dunedin regional boundary		
8	180	Omarama Nth	885	
8	186	Omarama SW of Township	850	
8	262	Tarras North of SH8A	910	
8	279	Bendigo	805	C
8	313	Cromwell Gorge	2690	
8	325	Alexandra To Clyde	3500	
8	336	Alexandra	(1996) 1610	T 8
8	362	Roxburgh near Coal Creek	1540	
8	394	Raes Junction Nth of SH90 Island Block	1420	C
8	412	Raes Junction East SH90 Craigellachie	1140	
8	459	Milton Junction With SH1 Clarkesville	1450	
8A	2	Tarras	540	
8A	6	Maori Ponit - past Maori Point Rd	500	
8A	19	Luggate Bridge	510	
8B	0	Cromwell Deadman's Point Bridge	2650	
8B	2	Cromwell near SH 6 Junction	2770	
10	7	Oromahoe Puketona Junction	2640	
10	29	Takou Bay Road	2310	
10	60	Nth of Salvation Rd	1260	
10	92	Nth of Inland Rd	2060	
11			no count	
12	4	Nth of Ngawha Springs Rd	2860	
12	27	Sth of Rakauwahi Road	1210	
12	62	Nth of Opononi	1330	
12	89	Waipoua Forest Nth of Wairau Bridge	410	
12	114	Sth of Aranga	460	
12	125	Sth of Kaihu	765	
12	178	Sth of Ruawai	1430	
14	0	West of S.H. 1	16820	
14	2	Sth of Kowhai Park Rd	7920	
14	9	East of Kara Rd	4880	
14	34	West of Kirikopuni Rd	2120	
15			no count	

Transit New Zealand Traffic Volumes

1998

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HMV
16	1	Southern M'Way City - Newtown	(1996) 31120	C
16	1	Southern M'Way ramps to Nelson/Hobson	66390	
16	2	Nelson/Hobson Ramps to Newton Rd	89900	
16	7	Waterview to Patiki	84120	C
16	16	Royal Rd to Hobsonville Rd	34310	C
16	21	South of Coatesville Riverhead Rd	21160	
16	29	South of Waimauku	(1996) 9070	
16	46	South of Helensville/Parakai	3970	
16	57	Kaukapakapa South	no count	
16	103	Wellsford South	no count	
18	1	West of William Pickering Drive	8950	
18	4	West Albany Highway	20700	
18	7	West Upper Harbour Bridge	19730	
18	14	East of SH18, East of SH16	29600	
20	1	Hillsborough to Queenstown	36800	C
20	4	Mangere Bridge	69880	C
20	16	Nth Wiri Stn Road	31210	
20A	3	Sth of Montgomerie Rd	27870	
21			no count	
22	3	West of Great Sth Rd	14850	
22	10	Paerata Nth of Heights Rd	9420	
22	16	Sth of Pukekohe	6250	
23	4	Hamilton, East of Newcastle Rd	5720	
23	13	Hamilton East of Te Kowhai Rd	3970	
23	14	West of Pirongia Road	4460	
23	39	Wright Road	2450	
24			no count	
25	1	West of Dalgetys Corner	2680	
25	21	West of Orongo Road	3820	
25	23	Kopu Waihou River Bridge	6400	
25	27	South of Kauaeranga River Bridge	10400	
25	36	Thames North of Rocky Point	3540	
25	49	South end Tapu township	1700	
25	72	Manaia South Of Manaia Hill	1160	
25	99	East of Opitonui	370	
25	123	Sth of Simpsons Bridge	850	
25	137	Whitianga Nth of Mercury Bay Rd	1730	
25	157	South of Whenuakite	1340	
25	187	Hikuai Sth of Petersons Bridge	2460	
25	188	South of SH25A junction	1160	
25	207	Whangamata North of Whangamata Hotel	1860	
25	240	Waihi North of Glastone Rd	1560	
25A	4	Kopu Kirikiri No 1 Stream Bridge	2330	C
25A	11	Neavesville 0.4 km before Coromandel Forest Park	2435	T 11
26	8	West of Platts Road	4190	
26	23	Morrinsville Sth of MoT weigh pit	3480	C
26	24	East of Piako Road Intersection	6400	
26	34	West of SH27 junction	4820	
26	37	East of No 7 Rd, Waitoa	3650	

Transit New Zealand Traffic Volumes

1998

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HMV
26	55	Te Aroha North of Mangaiti Stream Br	1630	
26	68	Paeroa West of Ryall Rd	2880	
26	75	Paeroa North of Komata Stream Br	2340	
27	11	Kaihere South of Kaihere Rd	4095	T 15
27	45	North of SH26 junction	3820	
27	46	Tatuanui School, Sth of S.H. 26	3800	
27	66	North of Wardville Road	5400	
27	67	Waharoa North of Town Boundary	6550	
27	76	Matamata between Beattie and Hinuera Rd	6500	
27	84	Hinuera South of SH29	3080	
28			no count	
29	2	Mt Maunganui East of Hewlets/Totara Rds	1800	
29	6	Mt Maunganui East of Girvan Rd	19600	
29	17	Tauranga Oropi Rd - Barkes Corner	10100	
29	20	Tauranga East of Cambridge Rd Tauriko	10800	
29	34	Lower Kaimai, West of Boulder Bridge	5855	T 12
29	48	South of Matamata Road	4720	
29	65	Hinuera between Matamata turnoff Pond Rd	4400	
30	35	Bennydale 1km East	570	
30	83	Whakamaru West of Sh 32	1690	
30	110	East of SH1 junction	1600	
30	141	Rotorua South of City Dump	2530	
30	149	Te Ngae East of Puarenga Bridge	32105	T 4
30	159	Sth of Waikohewa Brigdge	8400	
30	160	East of SH33 junction	4360	
30	188	Lake Rotoma East of Kawarau Loop Rd	2855	T 9
30	204	West of SH4 junction	1790	
30	218	Whakatane West Of Railway Xing Awakeri	4850	
30	220	North of Te Rahu Bridge	6950	
30	228	Whakatane North End Landing Road Bridge	14400	
31	13	Otorohanga East of Symes Rd	1360	
31	14	Otorohanga West of Symes Rd	250	
32	29	Nth Ongarato Rd intersection	1020	
32	41	North of Poihipi Road	980	
32	74	West Taupo	540	T 7
33	3	Te Ngae North of Okawa Bay Rd	4860	
33	30	Paengaroa	4305	T 13
34	11	Te Teko South of SH30 (ex 34/9)	5150	
34	1	Edgecombe Awaiti Rd (ex 34/20)	1170	
35	6	Opotiki West of Tirohanaga Bridge	1880	
35	69	East of Te Kaha	950	
35	124	Hamilton/Napier regional boundary		
35	194	Ruatoria North at Mangaoporo Br	475	
35	285	Tologa Bay Mangakuri Bridge	1140	S
35	314	Gisborne North At Tatapouri	1375	
37			no count	
38	0	Waiotapu East Of SH5	2100	
38	39	Murupara Sth of Galetea Rd	390	

Transit New Zealand Traffic Volumes

1998

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HMV
Hamilton/Napier regional boundary				
38	134	Waikaremoana by lookout	115	
38	185	Frasertown West	510	
41	1	Taumaranui Near Burnands Rd	1140	
41	8	Taumaranui East near Williamsons Rd	750	
41 23 Wanganui/Hamilton regional boundary				
41	49	Tokaanu, bottom of Waihi Hill	1280	
43	6	Stratford East	1250	
43	13	Toko East of Gordon Rd	790	
43	62	Whangamomona	160	
43	111	Ohura South of River Rd	120	
43	119	West of Tokorima	210	
43	138	West of Te Maire Bluff	390	
43	150	West of Manaia Rd	490	
45	9	New Plymouth West near Hurford Rd	5170	
45	19	Weld Rd	2290	
45	28	Okato Stony River Bridge	2190	
45	58	Opunake West near Opua Rd	1840	
45	72	Pihama Near Ouri Stream Bridge	1040	
45	101	Hawera West near Ohawe Beach Rd (telem from 1994)	3700	T 10
46			no count	
47	0	National Park East of SH4	1680	
47	9	Chateau Turnoff North	1540	
47	27	Te Rata School (Otukou Jn)	670	
48	0	Chateau South Of SH47	710	
49	9	West of Ohakune	1470	
49	11	Ohakune East (E of ex SH49A)	3210	
49	37	Waiouru West of SH1	1930	
50	0	Hardinge Rd between Hornsey & Battery Rds	4160	
50	4	Taradale Rd between Austin & Maadi Rd	12630	
50	5	Napier Hastings M'way S of Taradale Rd	4905	
50	6	Napier Hastings M'way S of Kennedy Rd	7060	
50	7	Napier Hastings M'way S of Meeanee Rd	12200	S
50	10	Tutaekiri River Bridge (1996)	11625	T 6
50	17	Ngaruroro River Bridge	5575	
50	19	South of Omaha Rd	2090	
50	29	East of Valley Rd	1740	
50	52	Hastings/Central Hawkes Bay Boundary	875	
50	70	Onga Onga North	no count	
53	17	Martinborough	2000	
54	3	Sth of Sandon Block Rd	640	
54	15	Nth of Waituna West	750	
54	29	North of Cheltenham	1100	
54	31	North of Almadale Rd	2070	
54	44	South of Aorangi Bridge	12270	
54	50	Palmerston North Milson Line	6400	
54	55	kairanga - Bunnythorpe	2530	
56	0	South of Ngui Rd, Opiki	3120	T 4
56	15	South of Alve Rd, Opiki (1996)	2800	

Transit New Zealand Traffic Volumes

1998

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HMV
56	18	Longburn South of Rail O/B	6410	
56	22	Palmerston North Mangaone Bridge	8220	
56	24	Palmerston North (revoked SH 56)	13060	T 3
		(1996)		
57	2	Levin Kimberley Rd	3130	
		(1996)		
57	9	Levin Tavistock Rd	5960	
57	19	Shannon South	5660	
57	23	Shannon North	5340	
57	32	Tokomaru River Bridge	2970	
57	36	Tokomaru South of Tane Rd	3460	
58	0	Haywards Hill	10400	
		(1996)		
58	9	Pauatahanui East opposite timber mill	11100	T 3
58	12	Pauatahanui Taylor Stace	6300	
58	15	Paremata Near SH1 Opposite Boat Sheds	13200	
60	0	Richmond NW of SH6 at Appleby O/B	6420	C
60	6	Richmond Pea Viner Corner	5350	
60	27	Tasman North	4400	
60	36	Motueka North of Borough	5650	
60	45	Takaka Hill	1150	
60	96	Takaka Waitapu Bridge	1570	
63	4	Renwick Waihopai	1060	
63	87	Tophouse North of Intersection	350	
63	116	Kawatiri Upper Buller River	290	
65	72	Springs Junction Nth	740	
67	0	Westport North of SH6 Junction	1250	
67	5	South of Buller River	3950	
67	7	Westport Brougham St South of Derby St	3950	
67	9	Westport North of Orowaiti River	1750	
67	22	Waimangaroa South of Township	1250	
67	31	Granity	800	
67	51	North of Mokihinui River	290	
67A	0	Westport Nth of SH67 Junction	1750	
69	0	Inangahua Junction South of SH6	570	
69	29	Reefton Nth of Burkes Creek	700	
69	32	Reefton Buller Rd just Nth of Potter St	1700	
70	0	NE SH7 Junction	550	
70	18	Waiau South of Waiau River	500	
		(1996)		
71	1	Lineside Rd NW of Kaiapoi	8600	
71	7	Rangiora Southbrook Rd Sth of Denches R	12750	
71	9	Rangiora Ivory St Nth of Buckham St	6600	
73	0	Ch'church Brougham St West of Waltham	29200	
73	1	Chch Brougham St West of Montreal St	30100	
73	2	Chch Jerrold St	26750	
73	4	Chch Southern M'Way West of Wrights Rd	19350	
73	7	Chch Curletts Rd Sth of Benheim Rd	31200	C
73	8	Chch Blenheim Rd West of Curletts Rd	32000	
		(1996)		
73	9	Chch Main Stn Rd Nth of Springs Rd	33900	
73	10	Chch Main Stn Rd Sth of Springs Rd	22000	
		(1996)		

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1998

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HMV
73	15	Chch Yaldhurst Rd West of SH1	11250	
73	17	Yaldhurst Rd	5500	
73	22	West Melton	4200	
73	26	Aylesbury East of Aylesbury Corner	2950	
73	27	Aylesbury West of Aylesbury Corner	2650	
73	40	Darfield East of Township	2750	
73	64	Springfield West of Springfield	1300	T 6
73	93	Castle Hill Straight	1020	
73	121	Cass East of Cass River	900	
73	142	Halpins Creek bridge	900	
73	146	Arthurs Pass Opposite National Park HQ	1120	S
73	159	Otira Just West of Otira River	915	
73	191	East of Taipo River	750	
73	225	Kumara Junction East	1250	
74	1	Chch Styx Sth	22000	
74	3	Chch Sth of Tuckers Rd	27000	
74	4	Chch Main Nth Rd	32000	
74	5	Chch Cranford St SE of Main North Road	21000	
74	6	Christchurch Sherborne St	11000	T 3
74	8	Christchurch City North - Cranford St	21000	
74	9	Chch Bealey Ave West of Manchester St	34000	
74	10	Chch Barbadoes St Sth of Gloucester St	14000	
74	11	Chch Moorhouse Ave East of Madras St	34000	
74	12	Chch Waltham Rd Sth of Moorhouse Ave	17500	
74	13	Chch Brougham St E of Waltham Rd	25000	
74	14	Chch East of Ensors Rd	16000	
74	15	Chch Port Hills Rd SE of Curries Rd (1996)	8200	
74	16	Chch Opawa Rd Sth of Garlands	8000	
74	17	Chch Port Hills Rd East of Champans Rd	8400	
74	20	Chch Tunnel Portal at Heathcote	9800	C
74	22	Lyttleton Norwich Quay near Caltex	7000	
74	112	Chch Tunnel Rd	5200	
75	1	Christchurch Heathcote River Bridge	10750	
75	2	Christchurch North of Tankerville Rd	19500	
75	4	Ch'church Halswell Rd Nth of Dunbars Rd	15000	
75	9	Nth of Halswell River	4050	C
75	16	Taitapu	2250	
75	27	Motukarara East of McQueens Valley Rd	2070	
75	43	Birdlings Flat	1900	
75	52	Little River	1620	
75	61	Hilltop West of Summit Rd Junction	950	
75	62	Hilltop just past hotel	1450	
75	67	Barrys Bay East of Cheese Factory	1800	
75	73	Robinsons Bay	1400	
75	79	Akaroa	2050	
77	0	Ashburton Kermode St	5650	
77	1	Ashburton Nth of Oak Grove	3900	
77	6	Ashburton North of Racecourse Road (1996)	1800	
77	21	River Rd	790	
77	29	Methven South of Reynolds Rd	680	
77	41	Methven Waimarama Rd	170	
77	48	Mt Hutt Stn	340	
77	53	Rakaia Gorge between Bridges	580	
77	86	Homebush Sth of Homebush School Corner	1200	
77	94	Waddington Nth of Hawkins River	310	
78	1	Timaru Port Loop Rd NW of Marine Parade	3250	

Transit New Zealand Traffic Volumes

1998

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HMV
79	9	Upper Orari East of Upper Orari Bridge	600	
79	10	Upper Orari Near Upper Orari Hall	1500	
79	15	Geraldine Cox St Nth of Lewis St	1750	
79	25	Gapes Valley Near Toomeys Bridge	780	
79	59	Fairlie East Of SH8	1750	
79	61	Fairlie	1450	
80	3	Lake Pukaki Nth of SH8 Junction	290	
82	0	Waimate Turnoff Sth of SH 1 Junction	1250	
82	8	Waimate Queen St NE of William St	3400	
82	20	Waiho Forsk NE of Douglas Bridge	450	
82	51	East of Penticotico Bridge	230	
83	2	Pukeuri West Of SH1	940	
83	36	Duntroon West of Township	555	
83	62	Kurow West of SH82 Junction	475	
83	106	Omarama East of SH 8 Junction	550	
84	1	Wanaka west of SH 6 junction	no count	
85	10	Palmerston Inch Valley	815	
85	61	Kyeburn East of SH87	430	
85	66	Kyeburn West of SH87	570	
85	80	North Ranfurly before Bypass Rd	980	
85	83	East Eweburn near bridge	760	
85	99	Idaburn past Idaburn Omakau Rd	230	
85	128	Lauder	350	
85	159	Alexandra	900	
87	1	Mosgiel	12970	
87	9	Outram Wylies Crossing	2250	
87	15	West Taieri	640	C
87	65	Middlemarch	455	
87	93	Hyde South before Hyde Macraes Rd	240	
87	109	Kokonga before Waipiata turnoff	180	
88	3	Frederick St	5570	
88	3	Dunedin Logan Point	6980	
88	10	Dunedin Roseneath	4710	
88	11	Dunedin Sawyers Bay	4000	
90	1	Raes Junction	505	
90	58	McNab	1940	
94	1	Gore Borough Boundary	2130	
94	2	Gore North of Borough Boundary	1860	
94	34	Riversdale	660	
94	59	Lumsden East of SH6	810	
94	64	Lumsden West of SH6	650	
94	111	Mararoa past Printchester Creek Bridge	1070	
94	136	Te Anau East	1430	C
94	141	Te Anau Upukerora River	615	
94	215	Cascade Creek Lake Gunn	(1996) 395	C
95	2	Wildlide Park	1320	
96	9	Glencoe Near Hedgehope Stream Bridge	505	
96	42	Browns	810	
STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HMV

Transit New Zealand Traffic Volumes

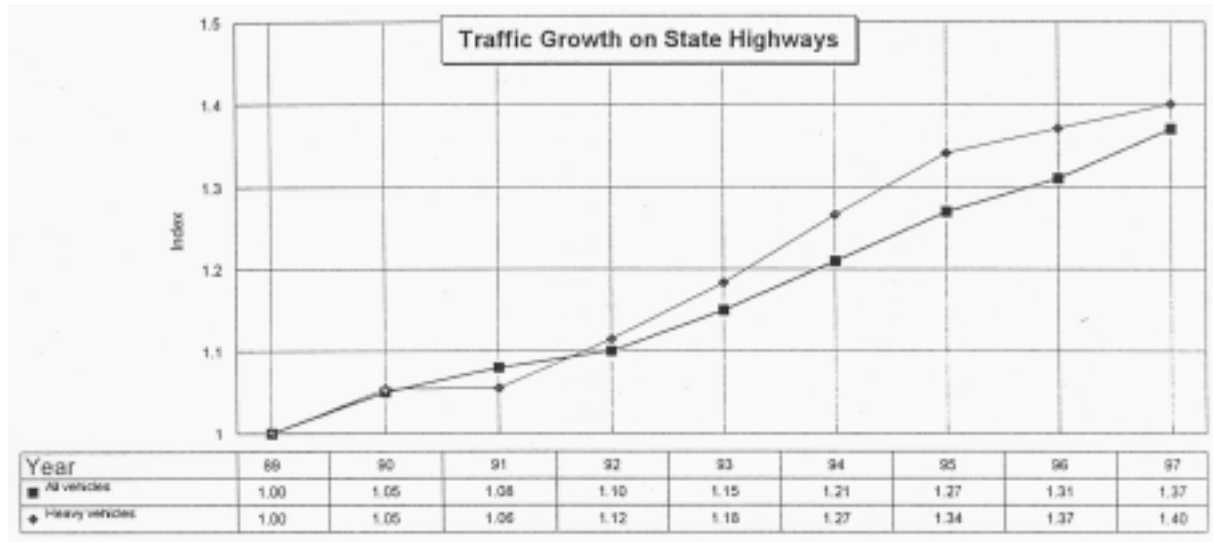
1998

96	56	Oreti Hotel	800
96	75	Wreys Bush beofre hall	755
96	89	Crawfords Runnel Ohai	530
98			no count
99	0	Lorneville East of Railway Bridge	4100
99	8	East of Argyle Corner	3440
99	27	Riverton near Racecourse	1740
99	39	Colac	625
99	75	Tuatapere	535
99	88	Clifden near School	390

Traffic Growths

The following graph shows the total traffic and heavy traffic growth indices since 1989.

This information has been gathered from the sixty continuous telemetry sites



Traffic Composition

The most common vehicle types on NZ State Highways:

Vehicles < 3.5 tonnes gross

0-0	(light vehicle – car, ute, van)
0-0-0	(light vehicle & single axle trailer)
0-0-00	(light vehicle & tandem axle trailer)

Vehicles > = 3.5 tonnes gross (HMV's)

0-0	(short truck/bus – w/b 2.0-4.0m)
0--0	(long truck/bus – w/b > 4.0m)
0-0--0	(3 axle artic.)
0--00	(3 axle truck/bus)
0--0-0--0	(truck & trailer)
0-0--00	(4 axle artic.)
00--00	(4 axle truck)
0--00-0--0	(truck & trailer)
0-00--00	(5 axle artic.)
0--00-0--00	(truck & trailer)
0-00--000	(6 axle artic.)
00--00-0--0	(4 axle truck, 2 axle trailer)
0-00--00--00	(7 axle B-train)
0--00-00--00	(truck & trailer)
0-00--00-0--0	(5 axle artic, 2 axle trailer)
00--00-0--0	(truck & trailer)
0-00--000--00	(8 axle B-train)
00--00-00--00	(truck & trailer)

Distribution of HMV Types:
(% HMV's)

	SH 1N Auckland Harbour Bridge (4 lanes N/B)	SH 1N Auckland Southern Motorway	SH 1N Ohakea N/B	SH 2 Te Puke	SH 1S Waipara (north of Chch)
o-o	23.3	14.5	7.7	9.6	15.3
o--o	37.9	16.6	16.3	14.9	13.9
o-o--o	2.7	2.2	3.7	2.1	3.4
o--oo	13.3	10.7	10.5	11.9	7.0
o--o-o--o	1.2	1.2	1.0	2.3	1.7
o-o--oo	1.6	2.1	3.7	0.9	2.1
oo--oo	2.2	2.9	3.3	5.9	4.0
o--oo-o--o	0.5	0.9	0.8	0.7	1.0
o-oo--oo	2.4	2.5	3.0	2.4	1.8
o--oo-o--oo	2.3	2.1	1.5	2.5	3.0
o-oo--ooo	5.4	15.4	14.3	11.7	8.5
oo--oo-o--o	0.1	0.2	0.5	0.1	0.2
o-oo--oo--oo (B-train)	0.8	5.6	2.3	2.5	5.6
o--oo-oo--oo (T&T)	1.4	1.9	2.9	10.1	1.7
o-oo--oo-o-- o		0.1	0.4	1.3	0.1
oo--oo-o--oo	1.1	2.9	2.3	3.6	4.4
o-oo--ooo-- oo	0.5	8.5	11.7	3.6	8.5
oo--oo-oo-- oo	1.0	6.8	13.5	10.2	13.1
Other HMV's	2.3	2.9	0.6	3.7	4.7

A blank indicates < 1%, but not necessarily zero.

Traffic Loading Equivalent Standard Axles (ESA)

The following tables are for pavement design purposes. The information is produced from Transit New Zealand's weigh in motion sites for the New Zealand supplement to the AUSTRROADS Pavement Design Manual.

SAST = Single Axle Single Tyre
 SADT = Single Axle Dual Tyre
 TADT = Tandem Axle Dual Tyre
 TRDT = Tri Axle Dual Tyre

Important note: the weight in motion data from which the following tables are derived, can not distinguish between single and dual tyres. It is assumed that steer axles are single tyred and all others are dual tyred. From observation, there is an increase in the utilisation of "super single" type tyres in the SADT, TADT and TRDT groups, however, the impact or significance can not be measured or derived from this technology.

SH 1N Auckland Harbour Bridge

Sample period - 331 days in 1997

	SAST	SADT	TADT	TRDT
Sample size	666212	555321	307127	39107
Average ESA	0.39	0.16	0.66	0.55
Std Dev	1.11	0.37	0.86	0.72

SH 1N Auckland Southern Motorway

Sample period - 301 days in 1997

	SAST	SADT	TADT	TRDT
Sample size	839861	459641	924304	200245
Average ESA	0.48	0.19	0.42	0.38
Std Dev	0.74	0.39	0.59	0.51

SH 1N Ohakea N/B

Sample period - 331 days in 1997

	SAST	SADT	TADT	TRDT
Sample size	147588	66640	193788	38604
Average ESA	0.46	0.17	0.31	0.33
Std Dev	0.50	0.29	0.34	0.37

SH 2 Te Puke

Sample period - 80 days in 1997

	SAST	SADT	TADT	TRDT
Sample size	116592	64793	149268	19198
Average ESA	0.51	0.19	0.53	0.41
Std Dev	0.76	0.39	0.61	0.50

SH 1S Waipara

Sample period - 335 days in 1997

	SAST	SADT	TADT	TRDT
Sample size	182176	107476	228689	30934
Average ESA	0.37	0.18	0.48	0.44
Std Dev	0.66	0.30	0.61	0.44