



**State Highway
Traffic Volumes
& Related Information**

1996

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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 (HCV'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.

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STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HCV
1F	20	Waitaki Landing Nth Te Hapua Rd	130	
1F	20	Waitaki Landing Sth Te Hapua Rd	255	
1F	45	Sth Te Ahu Rd	600	
1F	66	Houhora Sth of Salvation Rd	1080	
1F	69	Nth Lamb Rd	1370	
1F	69	Sth Lamb Rd	1390	
1F	96	Sth Beach Rd	1615	
1F	103	Nth Awanui Bridge	3520	
1N	4	Sth of Awanui, Brootts Road	5025	
1N	28	Victoria Valley	950	
1N	69	Waihou Valley	1290	
1N	90	Sth of S.H.12	2525	
1N	100	Sth of S.H. 10, Nth of Moerewa	4015	
1N	111	Sth of Kawakawa	4780	T 9
1N	144	Nth of Hikurangi Bypass	5665	
1N	154	Nth of Kamo at Kauri	7620	
1N	158	Whangarei Kamo Rd Nth of Station Rd	11375	
1N	160	Whangarei Kamo Rd Nth of Whau Valley Rd	18055	
1N	162	Whangarei, Wtern Hills Drive Sth of Percy	10310	
1N	163	Whangarei, Wtern Hills Drive Nth of Selwyn	15185	
1N	164	Whangarei, Wtern Hills Rd Sth of Central	15260	
1N	165	Whangarei Otaika Rd Sth of Tarewa Rd	19550	
1N	167	Whangarei Otaika Rd Sth of Rewarewa Rd	11065	
1N	170	Sth of Toe Toe Rd Nth of Portland Rd	9590	
1N	187	Nth of Ruakaka North at Flyers Rd	7365	
1N	210	Sth of Waipu	5010	
1N	227	Nth of Kaiwaka	6320	
1N	237	Nth of Te Hana (Wellsford telemetry)	6575	T 7
1N	258	Sth Wellsford	7440	
1N	270	Sth of Warkworth	11660	
1N	290	Nth of Hatfields Beach	12790	T 5
1N	293	Orewa Nth of Puriri	15765	
1N	295	Orewa South Bridge	29300	
1N	297	Silverdale Nth, Wainui Road	36805	
1N	303	Sth of East Coast Rd, Nth of Kahikatea Rd	18195	C
1N	313	Sth of Coastville Riverhead Rd	23410	
1N	316	Sth Albany, Nth of Bush Rd	23535	
1N	321	Auck N MW Tristram	63850	C
1N	323	Northcote to Tristram	84125	
1N	331	Auckland Harbour Bridge	139960	T
1N	338	Auck Southern M/W Khyber Pass to Gillies	195190	C
1N	347	Auck Southern M/W Mt Wgtn - Otahuhu	103595	C
1N	356	Auck Southern M/W Manakau to Manurewa	70455	C
1N	367	Auck S M/W Park Estate O'bridge	40880	T 8
1N	377	Auck S M/W Drury to Ramarama	29015	C
1N	380	Nth S.H. 2	24485	T 10

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STATE HIGHWAY	DISTANCE	LOCATION	AADT		% HCV
1N	385	Auckland/Hamilton regional boundary			
1N	391	Mercer near Railway Station	12900	C	
1N	415	Te Onetea Stockpile	11900	C	
1N	427	South of Bells Crossing	17200		
1N	428	Huntly Bypass	12100		
1N	429	Huntly Nth of Tainui Bridge	14700		
1N	434	Taupiri North	14895	T	9
1N	438	Ngaruawahia South of Hopu Hopu Br	11400		
1N	446	Nth of Park Road	14400		
1N	448	Sth of Whatawhata Rd	13900		
1N	469	Tamahere Motels	16200		
1N	473	Nth of Pickering Rd	14400	C	
1N	484	Cambridge By-Pass Nth of Duke St	20100		
1N	491	Karapiro South of Karapiro Turnoff	11010	T	10
1N	515	Tirau North of Town Boundary	6000		
1N	516	Sth of Oraka Stream Bridge	9000		
1N	518	Sth of SH 5 junction	6000		
1N	524	South of Whites Rd	8200		
1N	531	Lichfield, South Of Baldwin Rd	7890	T	13
1N	540	Nth of Pokaiwhenua Bridge	6450		
1N	551	Tokoroa, Sth of Balmoral Drive	7850		
1N	556	Sth of Matarawa Stream Bridge	4950		
1N	600	Wairakei South Of Palmer Mill Rd	3800		
1N	610	Taupo South Of Huka Loop Rd	7450		
1N	613	Taupo North End of Control Gates	18900		
1N	616	Taupo North of SH 5 junction, Waipahihi	14500	C	
1N	617	Taupo, Sth of SH 5 junction	14000		
1N	641	Halletts Bay	4835	T	13
1N	665	Turangi North of SH41	3990		
1N	676	Sth National Park Rd	2380		
1N	708	Hamilton/Wanganui regional boundary			
1N	708	Desert Road	3610		
1N	739	Hihitahi near Deacons Rd	4000	T	13
1N	752	Taihape Hautapu	4390		
1N	755	Taihape North (Est)	5500		
1N	761	Utiku North	5050		
1N	778	Mangaweka North	4960		
1N	795	Huntermville North Vinegar Hill Rd	4750		
1N	821	Rata South At Mangaraupi Bridge	4680		
1N	831	Bulls North of Greatford	4190		
1N	843	Bulls North	5370		
1N	845	Bulls Rangitikei River Bridge	11280		
1N	846	Sanson West	10425	T	9
1N	858	Carnarvon South of Campions Line (Est)	4320		
1N	872	Himitangi South Of SH56	7310		
1N	882	Foxton South	7850		
1N	898	Levin Kawi Rd – Gordon Pl	9690		

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STATE HIGHWAY	DISTANCE	LOCATION	AADT		% HCV
1N	902	Levin South of Town	12300		
1N	903	Levin South of Kimberley Road	13280		
1N	906	Ohau Overbridge	13110	T	10
1N	915	Wanganui/Wellington regional boundary			
1N	919	Otaki Nth Waitohu Stream Bridge	12100		
1N	922	Otaki Otaki River	13200		
1N	940	Paraparaumu North Near Kapiti Lookout	19700		
1N	949	Paekakariki Mckays Crossing	20900		
1N	954	Paekakariki South of Fishermans Table	19500	W	6
1N	965	Plimrnerton Taupo Swamp	21400		
1N	969	Paremata Bridge	25100		
1N	971	Papakowhai	28700		
1N	981	Grenada	44900		
1N	984	Wellington MIW J'ville Bypass	36000		
1N	986	Wellington Ngauranga Gorge	58900		
1N	987	Ngauranga S/B	19280	T	2
1N	987	Ngauranga N/B	16740	T	2
1N	990	Wgtn M/W Thorndon Flyover	59400		
1N	992	Wgtn M/W Hawkestone Thru Lanes	43700	C	
1N	993	Wgtn M/W Terrace Tunnel	38500		
1S	7	Picton - Blenheim Koromiko	200	C	
1S	27	Blenheim North	8400		
1S	28	Blenheim St Andrews	4400		
1S	50	Seddon North, Dashwood	2320		
1S	90	Wharanui Ben More	1640		
IS	90	Wellington/Christchurch regional boundary			
1S	116	Clarence, North Of Clarence River	1500		
1S	144	Kaikoura North of Hapuka River	1740	T	12
1S	156	Kaikoura Outside MWD Depot	3700		
1S	163	Kowhai River Bridge, Nth of Route 70	2200		
1S	180	Oaro Bottom of Hundalee Hills	1700		
1S	212	Parnassus Just North of Leader River	1700		
1S	229	Cheviot Township	2200		
1S	245	Hurunui River 1.5km North	1800		
1S	284	Waipara North Of SH7 Junction	2600		
1S	287	Waipara Nth of Glasnevin Weigh Pit	4985	W	9
1S	295	Amberley	7000		
1S	301	Leithfield	5600		
1S	308	Ashley River North Of Saltwater Creek	6000	C	
1S	313	Waikuku	7600		
1S	316	Woodend at school	10500		
1S	317	Woodend South Of SH72 Junction	9400		
1S	322	Kaiapoi N/M'way at Cam Rd Underpass	7800		
1S	327	Christchurch Northern M/W Twin Br	26400	S	
1S	330	Christchurch South Of Dickies Road	(1995) 23000		
1S	332	Christchurch Nth of Johns Road Belfast	29000		

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1S	333	Ch'church Johns Rd East of the Groynes	9600		
1S	337	Ch'church Johns Rd East of Sawyers Arms	9800		
1S	339	Ch'church Harewood & McLeans Rd	13500		
1S	340	Ch'church Nth of Memorial Rd	15600	C	
1S	343	Ch'church Nth of Ryans Rd	18000		
1S	345	Ch'church Sth of Steadman Rd	14500		
1S	347	Ch'church Sth of Carmenn Rd	16000		
1S	349	Ch'church Sth of Halswell Rd	15000		
1S	352	Christchurch Sth Templeton	11600	C	
1S	373	Burnham	8200		
1S	384	Dunsandel North of Hotel	6600		
1S	389	Dunsandel telemetry	6355	T	12
1S	401	Rakaia	7800		
1S	406	Chertsey	6600		
1S	428	Ashburton Nth Rail X'ing, Sth Golf Linkd Rd	7200		
1S	429	Ashburton West St, Sth Racecourse Rd	4700	C	
1S	430	Ashburton West St Sth of Havelock St (1995)	8600		
1S	431	Ashburton North of Ashburton River Brid	17500		
1S	440	Winslow	4200		
1S	455	Hinds	3500		
1S	466	Rangitata North of Store	4200		
1S	472	Orari	3500		
1S	482	Winchester South of Township	6000	C	
1S	488	Vine St Nth of Wood St	6600		
1S	489	Temuka Just Nth of Temuka River	10000		
1S	500	Timaru North East of Racecourse Gates	9400		
1S	501	Timaru Hilton Highway, Nth of S.H. 8	10000		
1S	502	Timaru South of Washdyke Bridge	17500		
1S	503	Timaru Between Washdyke & Showgrounds	13000	C	
1S	504	Timaru telemetry	17620	T	5
1S	506	Timaru Theodosia St Sth of Sefton St	16000		
1S	506	Timaru Theodosia St Sth of Church St	10000		
1S	507	Craigie Ave Sth of Nth St	9600		
1S	509	Timaru Nth of Otipua Rd	8600		
1S	510	Timaru South of Saltwater Creek Br	6600		
1S	517	Pareora	4700		
1S	522	St Andrews 2km North of St Andrews	4405	T	12
1S	541	Hook North Of Hook River	3800		
1S	567	Glenavy North of Township	2200		
1S	569	Christchurch/Dunedin regional boundary			
1S	580	South Of Waitaki River At Hilderthorpe	3905		
1S	584	Pukeuri South Of Junction With SH83	5490		
1S	588	Oamaru Waitaki Ave – Virgil St	12265		
1S	591	Oamaru Nen St - Exe St	17395		
1S	593	Oamaru Old South Boundary	7615		
1S	595	Oamarui South of Deboarah Subway	4755		
1S	624	Hampden North	2960	C	

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1S	656	Palmerston Pleasant Valley	3365		
1S	678	Kilmog	4100		
1S	685	Evansdale	4810		
1S	701	Dunedin Northern Motorway (1995)	4830		
1S	703	Great King St Near Willowbank	12755		
1S	707	Andersons Bay Rd near Ardmore Drive (1994)	32480		
1S	708	By King Edward St Overpass (1994)	17150		
1S	711	Hudson St on Southern Motorway (Northbound)	6780		
1S	712	Green Island North Of Stevenson Rd	3280		
1S	713	Southern Motorway Sth of Burnside O'Bridge	18980		
1S	713	Southern Motorway Kaikorai Off ramp	5485		
1S	716	Green Island Abbots Creek Bridge	29255		
1S	721	Mosgiel South Of Junction With SH87 (1994)	7200		
1S	765	Milton	4680	T	10
1S	766	Milton Sth of SH8 Junction Clarksville	3505		
1S	786	Balclutha Bridge	9835		
1S	791	Balclutha Te Houka	2465		
1S	818	Clinton South of Cemetery	1625		
1S	856	Gore North Side	3430		
1S	857	Gore telemetry	3470	T	9
1S	859	Gore	10255		
1S	861	Gore South Of Charlton Road	5400	C	
1S	875	Mataura South Of SH96 Junction Brydon	3230	C	
1S	899	Dacre Near Transmitting Station	3905		
1S	916	Invercargill South End of Kennington	4655		
1S	919	Invercargill North of Rockdale Rd	5505		
1S	921	East of Inglewood Rd	8070		
1S	922	East of Queens Drive	13215		
1S	923	South of Forth Street	13035		
1S	923	Invercargill Telemetry	10455	T	3
1S	924	South of Balmoral Drive	7690		
1S	929	Invercargill South of Avon Rd	3050		
1S	935	Invercargill North Of Awarua Radio Stn	2170		
2	1	Mangatawiri West of Grahams Bridge	10355	T	10
2	34	Nth of SH 25 intersection	6600		
2	37	Nth of SH 27 intersection	5500		
2	38	Mangatarata Hauraki Golf Course	3780		
2	52	Ngatea South Of Parrys Corner	3350		
2	66	East of Awaiti Corner	3750		
2	91	Waihi, East of Samson Rd	6365	T	8
2	95	Waihi West of Waihi Beach Rd	6500		
2	99	Waihi East of Waihi Beach Rd	3600		
2	107	Athenree SE Of Gorge Near Rest Area	4500		
2	120	Katikati 1km East	7750		
2	137	Omokoroa South of Omokoroa Beach Rd	8900		
2	141	Te Puna (West of Snodgrass Rd)	10780	T	6

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2	142	East of Snodgrass Rd	8650		
2	148	Tauranga East of Moffats Rd	15100		
2	152	Tauranga West of Judea Bridge	31500	C	
2	155	Tauranga Sth of Maungatapu Bridge	21000		
2	159	Tauranga Nth of Maungatapu Bridge	13800	C	
2	166	Te Maunga Nth of Mangatawa Lane	12500		
2	170	East of Domain Rd Papamoa	11700		
2	187	Te Puke Rangioru Nth of Rail Bridge	11000		
2	204	Ohinepanea West of Rogers Rd	3710	T	16
2	225	Matata, Nth of Burt Rd	1650		
2	242	100m West of SH30 Owakeri	2590		
2	243	100m East of SH30 (White Pine Bush Rd)	1350		
2	258	South of White Pipe Bush Road	2600		
2	285	Whakatane SW of Ohope Rd	910		
2	286	Opotiki side of Opohope Rd	2670		
2	298	Opotiki West Near Kukumoa	2950		
2	308	Opotiki Nth of Matchit Rd	3790		
2	361	Hamilton/Napier regional boundary			
2	368	Nth of Motu Bridge	725		
2	429	Ormond 13 krn North of Gisborne Turnoff	2195	T	11
2	452	Manutuke 16krn South of Gisborne	1350		
2	483	Nuhaka North at Tarewa Deviation	1075	S	
2	528	Wairoa North	1570		
2	541	Wairoa South	1215		
2	566	Top of Mohaka Hill	1055		
2	631	Tangoio	1535	T	13
2	637	North of Esk River	3265		
2	638	Napier South of SH5	5700		
2	647	Main Rd Nth, Sth of Watchman Rd	10100		
2	652	Georges Drive, South of Kennedy Rd	4425		
2	653	Marine Parade, South of Ellison St	9115		
2	658	Waitangi Tutaekuri Bridge, Awatoto	9285		
2	666	Hastings Mangateretere	8310	S	
2	669	Karamu Rd Nth, Sth of Ellwood Rd	10520		
2	671	Hastings St Sth, Sth of Heretaunga St East	4200		
2	672	Southampton St, Wst of Karamu Rd South	9455		
2	674	North of Longlands Rd	2990		
2	678	Paki Paki North	2120		
2	682	Paki Paki South	5155	S	
2	710	Waipawa North	4480		
2	716	Waipawa – Waipukurau	6820		
2	731	Takapau South Of Maharakeke Bridge	3150		
2	751	Napier/Wanganui regional boundary			
2	755	Norsewood Underpass	3390	T	13
2	769	Dannevirke North	4710		
2	790	Oringi	4790		
2	808	Woodville North of Ngawaparu River Bridge	3870		

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2	814	Mangatainoka	4640		
2	831	Konini	3000		
2	857	Mt Bruce	2680		
2	858	Wanganui/Wellington regional boundary			
2	862	Mt Bruce South at Ruamahanga River Br	2580		
2	892	Masterton South of Taratahi Road	8000	C	
2	903	Carterton South At Mangatarere Br	6700		
2	916	Tauherenikau River	4400		
2	937	Rimutaka North of Pukuratahi River	3905	T	5
2	949	Upper Hutt Brown Owl	14300		
2	952	Upper Hutt Sth of Totara Park	15100		
2	955	Upper Hutt Sth of Whakatiki St	18600		
2	958	Upper Hutt Silverstream	18900		
2	961	Upper Hutt Manor Park	25700		
2	963	Lower Hutt Kelson, Sth of	27800		
2	969	Lower Hutt North of Block Rd	32600		
2	973	Lower Hutt Percy's Reserve	34600		
2	977	Wellington Petone - Ngauranga	59700		
2	979	Ngauranga S/B	20715	T	2
2	979	Ngauranga N/B	17060	T	2
3	1	Hamilton North of Collins Rd	24260		
3	4	Hamilton South of Dixon Rd	10600	C	
3	11	Hamilton South of Airport Mystery Cr	8650	C	
3	33	North of Tokonui Rd	6550		
3	38	Kihikihi South Near Te Kawa Turnoff	4600		
3	49	North of Kio Kio Station Rd	3800		
3	61	North of Waitomo Caves Rd	4980		
3	65	South of Waitomo Caves Rd	4130		
3	85	Te Kuiti North of SH4 Junction	3335	T	12
3	103	Piopio South of Hunts Rd	1320		
3	158	Hamilton/Wanganui regional boundary			
3	171	Tongaporutu River Bridge	2040		
3	202	Waitoetoe North Of Pukearuhe Rd	2200		
3	223	Waitara East of Borough	6200		
3	228	Waitara East of SH3A	10900		
3	229	Waitara West of SH3A	9740		
3	235	New Plymouth East Of Egmont Rd	18740		
3	244	New Plymouth Southern Motorway	7340		
3	258	South of Inglewood at Ngatoro Bridge	7150		
3	267	Tariki	6465	T	7
3	283	Stratford South Near Ngaere Rail O/B	6340		
3	303	Normanby North	(Est) 5030		
3	306	Hawera Racecourse	(Est) 7550		
3	321	Mokoia Manawapou River Br	(Est) 3870	C	
3	340	Patea South	3170		
3	353	Waverley North	3300		

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3	372	Waitotara East near Russel Rd	2950	T	9
3	389	Wanganui North near Mission Rd	3830		
3	396	Wanganui Virginia Rd	(Est) 5590		
3	401	Wanganui Cobham Bridge	(Est) 7590		
3	403	Wanganui South At Marybank	(Est) 7640		
3	410	Wanganui South Near Marangai Rd	6280		
3	427	Turakina East Near Makirikiri	4700		
3	443	Bulls North Near MWD Depot	5460		
3	450	Sanson East	7160		
3	465	Palmerston North West At Taonui Culvert	7490		
3	470	Palmerston North East of Flyers Line	8950		
3	481	Palmerston North East Near Te Matai Rd	7000		
3	489	Manawatu Gorge	5615	T	10
3	498	Woodville West	5700		
3A	1	Waitara Near Te Arei Rd	2430		
4	4	400m South of SH3 junction	1320		
4	35	Hamilton/Wanganui regional boundary			
4	44	Mangatupoto West of SH40	1600		
4	65	Taumaranui North Near Okaihae Rd	2010		
4	74	Taumaranui Wanganui River Br (Matapuna)	4180		
4	90	Owhango Rail Overbridge	1850		
4	110	Raurimu South At Rail Overbridge	1440		
4	114	National Park South Of SH47	1510		
4	133	Horopito	1455	T	12
4	163	Raetihi South Near Ararawa Bridge	830		
4	189	Kakatahi South Of Raupiu Rd	870		
4	218	Wanganui North At Upokongaro Stream Br	990		
4	226	Upokongaro South	1785	T	7
4	232	Wanganui Pauls Rd	(Est) 2220		
5	1	East of SH1 junction	2690		
5	5	East of White Road Intersection	3930		
5	34	Tarukenga, West of Dalbeth Rd	4190	T	10
5	46	Rotorua North Of Fairy Springs	15300	C	
5	57	Waipa South of S.H. 30	5805	T	11
5	82	South of Waiotapu Tavern	3490		
5	125	Wairakei North Of SH1	3140		
5	138	Taupo East Of Crown Rd	2570		
5	190	Hamilton/Napier regional boundary			
5	230	Te Pohue	2160	T	14
5	257	Eskdale North Of Yule Rd	2640		
6	3	Blenheim West Boundary	6450		
6	9	Woodbourne Airbase	4300	C	
6	18	Renwick Wairau River Bridge	2630		

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STATE HIGHWAY	DISTANCE	LOCATION	AADT		% HCV
6	60	Pelorus Bridge	2080		
6	100	Hira	2310	T	11
6	114	Nelson Northern Outlet	8100		
6	123	Nelson North of Hays Corner	14100	C	
6	124	Nelson South of Hays Corner	25100	T	4
6	128	Nelson Freezing Works	27000		
6	129	Richmond Bypass	12900		
6	131	Richmond Three Bros Corner	15000		
6	135	Brightwater Wairoa River Bridge	7300		
6	140	Brightwater SW at Spring Grove	5010		
6	155	Wakefield - Kohatu Spooners Hill	1780		
6	183	Korere	1270		
6	236	Murchison Nth Longford Bridge	1315	T	12
6	269	Wellington/Christchurch regional boundary			
6	292	Inangahua North of Township	750		
6	327	Buller Gorge Ten Mile Creeek	640		
6	340	Coast Rd Sth of Wilson Lead Rd	700		
6	398	Punakaiki Just Nth Canoe Creek Bridge	705	T	8
6	419	Rapahoe North Township	1300		
6	420	Runganga	1600		
6	426	Nth of Taylorville turnoff	3700		
6	428	Cobden	3400		
6	429	Grey River Bridge	7800		
6	430	East of Willis St	5800		
6	431	Greymouth Tainui St near Grogans Lane	10800		
6	433	High St, South of Nelson	7200		
6	435	Fernhill to Loris Place	5600		
6	438	Paroa North of Paroa School	3700		
6	448	Kumara North of Junction with SH73	2200		
6	450	Kumara Junction Sth of Serpentine Creek	1940	C	
6	454	Chesterfield telemetry	1945	T	9
6	468	Three Mile Nth of Hokitika	2600		
6	471	Hokitika Fitzherbert St Sth of Stafford	3700		
6	473	Hokitika Nth of Gold Links Rd	1900		
6	483	Ruatapu Just Sth of Township	860		
6	501	Ross at Fire Station	1000		
6	502	Ross Just Sth of Township	650		
6	548	Harihari Just Sth of Township	550		
6	577	Whataroa	700		
6	605	Franz Josef Glacier North of Stony Cree	650		
6	609	Franz Josef Sth of Fire Station	950		
6	751	Haast Just Sth of Haast River	460		
6	760	Haast West of Greenstone Creek	320		
6	814	Christchurch/Dunedin regional boundary			
6	853	Lake Wanaka Camp Creek Bridge	375	C	
6	880	Hawea North Of Dam	580		
6	894	Wanaka South Of Cardrona River Bridge	2030		

Transit New Zealand

Traffic Volumes

1996

STATE HIGHWAY	DISTANCE	LOCATION	AADT		% HCV
6	939	Lowburn	1590		
6	946	Cromwell	2185		
6	993	Frankton North East of Junction	5630		
6	1000	Frankton South East of Junction	1165		
6	1076	Mid Dome	1340		
6	1095	Lumsden	1670		
6	1117	Dipton	1135	C	
6	1148	Winton	2500		
6	1149	Winton South	3455	T	8
6	1168	Lorneville South of Junction With SH99	9095	C	
6	1171	Invercargill North of West Plains Rd	10600		
6	1172	North of Bainfield Road	17675		
6	1175	North of Victoria Ave	28190		
6A	2	Frankton	10510		
7	2	Waipara Straight NW Waipara Township	2300	C	
7	14	Waikari NW of Township	1800		
7	26	Hurunui River	1900		
7	41	Culverden	2100		
7	44	Red Post South of SH70 Junction	1800		
7	45	Red Post North of SH70 Junction	1400		
7	67	Hamner Sth of SH7A Junction	1500		
7	68	Hamner Nth of SH7A Junction	900		
7	108	Lewis Pass South at Engineers Camp	960	T	16
7	152	Springs Junction East of SH65	950		
7	183	East at Reefton	460		
7	194	Reefton at cableway	850		
7	195	Reefton Broadway just West of Smith St	1500		
7	196	Reefton Sth of Inangahua River	1000		
7	222	Ikamatua	950		
7	239	Ahaura South of Bridge	955	T	13
7	258	Stillwater	1300		
7	261	Brunner	1700		
7	268	Kaiata North of Greymouth	2300		
7	272	Greymouth	3000		
7A	0	Hamner Nth of SH7 Junction	950		
8	5	Levels	2800		
8	12	Pleasant Pt West of Butler Rd	2400		
8	14	Pleasant Pt	900		
8	28	Cave	950		
8	55	Fairlie South East of Town	900	C	
8	57	Fairlie Talbot St	1700		
8	58	Fairlie Ayr to Denmark St	1600		
8	99	Tekapo East of Township	960		

Transit New Zealand

Traffic Volumes

1996

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HCV
8	100	Tekapo on bridge	1500	
8	149	Pukaki South West of SH80 Junction	1000	
8	157	Lake Ruataniwha Spillway	1000	
8	159	Christchurch/Dunedin regional boundary		
8	180	Omarama Nth	1930	
8	186	Omarama SW of Township	1605	
8	262	Tarras North of SH8A	927	
8	279	Bendigo	795	C
8	313	Cromwell Gorge	2275	
8	325	Alexandra To Clyde	4155	
8	336	Alexandra	1610	T 9
8	362	Roxburgh near Coal Creek	1805	
8	394	Raes Junction Nth of SH90 Island Block	1435	C
8	412	Raes Junction East SH90 Craigellachie	1200	
8	459	Milton Junction With SH1 Clarkesville	1760	
8A	1	Tarras	460	
8B	0	Cromwell Deadman's Point Bridge	2625	
8B	2	Cromwell near SH 6 Junction	850	
10	7	Oromahoe Puketona Junction	2585	
10	29	Takou Bay Road	2030	
10	60	Nth of Salvation Rd	1060	
10	92	Nth of Inland Rd	1850	
12	4	Nth of Ngawha Springs Rd	2360	
12	27	Sth of Rakauwahi Road	1155	
12	62	Nth of Opononi	1180	
12	89	Waipoua Forest Nth of Wairau Bridge	315	
12	114	Sth of Aranga	385	
12	125	Sth of Kaihu	615	
12	178	Sth of Ruawai	1310	
14	0	West of S.H. 1	16490	
14	2	Sth of Kowhai Park Rd	7170	
14	9	East of Kara Rd	4075	
14	34	West of Kirikopuni Rd	1830	
16	1	Southern M'Way ramps to Nelson/Hobson	59330	C
16	2	Nelson/Hobson Ramps to Newton Rd	90450	
16	7	Waterview to Patiki	81130	C
16	16	Royal Rd to Hobsonville Rd	33485	C
16	21	South of Coatesville Riverhead Rd	20155	
16	29	South of Waimauku	9070	
16	46	South of Helensville/Parakai	3955	

Transit New Zealand

Traffic Volumes

1996

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HCV
18	1	West of William Pickering Drive	9370	
18	4	West Albany Highway	23150	
18	7	West Upper Harbour Bridge	19540	
18	14	East of SH18, East of SH16	26865	
20	1	Hillsborough to Queenstown	34050	C
20	4	Mangere Bridge	66715	C
20	16	Nth Wiri Stn Road	30590	
20A	3	Sth of Montgomerie Rd	33220	
22	3	West of Great Sth Rd	13210	
22	10	Paerata Nth of Heights Rd	8975	
22	16	Sth of Pukekohe	5750	
23	4	Hamilton, East of Newcastle Rd	9260	
23	13	Hamilton East of Te Kowhai Rd	3800	
23	14	West of Pirongia Road	4490	
23	39	Wright Road	4420	
25	1	West of Dalgetys Corner	2450	
25	21	West of Orongo Road	3040	
25	23	Kopu Waihou River Bridge	5790	
25	27	South of Kauaeranga River Bridge	9240	
25	36	Thames North of Rocky Point	3310	
25	49	South end Tapu township	1570	
25	72	Manaia South Of Manaia Hill	1080	
25	99	East of Oponoi	310	
25	123	Sth of Simpsons Bridge	680	
25	137	Whitianga Nth of Mercury Bay Rd	1420	
25	157	South of Whenuakite	1100	
25	187	Hikuai Sth of Petersons Bridge	1960	
25	188	South of SH25A junction	760	
25	207	Whangamata North of Whangamata Hotel	1670	
25	240	Waihi North of Glastone Rd	1360	
25A	4	Kopu Kirikiri No 1 Stream Bridge	1950	C
26	8	West of Platts Road	4200	
26	23	Morrinsville Sth of MoT weigh pit	3520	C
26	24	East of Piako Road Intersection	6100	
26	34	West of SH27 junction	4610	
26	37	East of No 7 Rd, Waitoa	3430	
26	55	Te Aroha North of Mangaiti Stream Br	1680	
26	68	Paeroa West of Ryall Rd	3290	

Transit New Zealand

Traffic Volumes

1996

STATE HIGHWAY	DISTANCE	LOCATION	AADT		% HCV
26	75	Paeroa North of Komata Stream Br	2100		
27	11	Kaihere South of Kaihere Rd	3875	T	14
27	45	North of SH26 junction	4020		
27	46	Tatuanui School, Sth of S.H. 26	4330		
27	66	North of Wardville Road	4640		
27	67	Waharoa North of Town Boundary	6800		
27	76	Matamata between Beattie and Hinuera Rd	7050		
27	84	Hinuera South of SH29	3170		
29	2	Mt Maunganui East of Hewlets/Totara Rds	17000		
29	6	Mt Maunganui East of Girvan Rd	17900		
29	17	Tauranga Oropi Rd - Barkses Corner	8400		
29	20	Tauranga East of Cambridge Rd Tauriko	9400		
29	34	Lower Kaimai, West of Boulder Bridge	5165	T	12
29	48	South of Matamata Road	4520		
29	65	Hinuera between Matamata turnoff Pond Rd	4930		
30	35	Bennydale 1km East	490		
30	83	Whakamaru West of Sh 32	1550		
30	110	East of SH1 junction	1500		
30	141	Rotorua South of City Dump	2310		
30	149	Te Ngae East of Puarenga Bridge	30675	T	4
30	159	Sth of Waikohewa Brigdge	8100		
30	160	East of SH33 junction	3710		
30	188	Lake Rotoma East of Kawarau Loop Rd	2680	T	8
30	204	West of SH4 junction	1910		
30	218	Whakatane West Of Railway Xing Awakeri	4070		
30	220	North of Te Rahu Bridge	6050		
30	228	Whakatane North End Landing Road Bridge	12600		
31	13	Otorohanga East of Symes Rd	1250		
31	14	Otorohanga West of Symes Rd	220		
32	28	Nth Ongarato Rd intersection	880		
32	41	North of Poihipi Road	820		
32	74	West Taupo	495	T	7
33	3	Te Ngae North of Okawa Bay Rd	4800		
33	30	Paengaroa (Sth of Maungarangi Rd)	3945	T	14
34	9	Te Teko South of SH30	5100		
34	20	Sth of SH2 junction	1090		
35	6	Opotiki West of Tirohanaga Bridge	1650		
35	69	East of Te Kaha	780		
35	124	Hamilton/Napier regional boundary			

Transit New Zealand

Traffic Volumes

1996

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HCV
35	194	Ruatoria North at Mangaoporo Br	485	
35	285	Tologa Bay Mangakuri Bridge	1100	S
35	314	Gisborne North At Tatapouri	1320	
38	0	Waiotapu East Of SH5	2250	
38	39	Murupara Sth of Galetea Rd	320	
38	57	Hamilton/Napier regional boundary		
38	131	Napier region starts at Lake Waikaremoana DOC HQ		
38	134	Waikaremoana by lookout	100	
38	185	Frasertown West	525	
41	1	Taumaranui Near Burnands Rd (Est)	1010	
41	8	Taumaranui East near Williamsons Rd	610	
41	23	Wanganui/Hamilton regional boundary		
41	49	Tokaanu, bottom of Waihi Hill	1180	
43	6	Stratford East	1170	
43	13	Toko East of Gordon Rd	630	
43	62	Whangamomona	130	
43	111	Ohura South of River Rd	140	
43	119	West of Tokorima	200	
43	138	West of Te Maire Bluff	300	
43	150	West of Manaia Rd	450	
45	9	New Plymouth West near Hurford Rd	4960	
45	19	Weld Rd	2470	
45	28	Okato Stony River Bridge	2050	
45	58	Opunake West near Opuia Rd	1570	
45	72	Pihama Near Ouri Stream Bridge	970	
45	101	Hawera West near Ohawe Beach Rd	3545	T 9
47	0	National Park East Of SH4	1650	
47	9	Chateau Turnoff North	1530	
47	27	Te Rata School	650	
48	0	Chateau South Of SH47	690	
49	9	West of Ohakune	1390	
49	11	Ohakune East Of SH49A	2660	
49	37	Waiouru West Of SH1	1680	
50	0	Hardinge Rd between Hornsey & Battery Rds	4110	
50	6	Napier Hastings M'way S of Taradale Rd	4945	
50	4	Taradale Rd between Austin & Maadi Rd	12670	
50	7	Napier Hastings M'way S of Kennedy Rd	6950	
50	10	Napier Hastings M'way S of Meeanee Rd	11625	S

Transit New Zealand

Traffic Volumes

1996

STATE HIGHWAY	DISTANCE	LOCATION	AADT		% HCV
50	17	Ngaruroro River Bridge	5530		
50	19	South of Omaha Rd	2045		
50	29	East of Valley Rd	1680		
50	52	Hastings/Central Hawkes Bay Boundary	835		
53	17	Martinborough	2000		
54	3	Sth of Sandon Block Rd	600		
54	15	Nth of Waituna West	700		
54	29	North of Cheltenham	920		
54	63	North of Almadale Rd	1980		
54	74	South of Aorangi Bridge	12070		
54	81	Palmerston North Milson Line	6200		
54	86	Kairanga – Bunnythorpe	2480		
56	2	Palmerston North	13060	T	4
56	4	Palmerston North Mangaone Bridge	8020		
56	8	Longburn South of Rail O/B	6380		
56	29	Himitangi East of SH1	3280		
57	2	Levin Kimberley Rd	3130		
57	9	Levin Tavistock Rd	5360		
57	19	Shannon South	5060		
57	23	Shannon North	4950		
57	26	South of Ngui Rd, Opiki	2780		
57	40	South of Alve Rd, Opiki	2800		
58	0	Haywards Hill	10400		
58	9	Pauatahanui East opposite timber mill	10530	T	3
58	12	Pauatahanui Taylor Stace	6000		
58	15	Paremata Near SH1 Opposite Boat Sheds	13000		
60	0	Richmond NW Of SH6 at Appleby O/B	6000	C	
60	6	Richmond Pea Viner Corner	5000		
60	27	Tasman North	4000		
60	36	Motueka North of Borough	5400		
60	45	Takaka Hill	1020		
60	96	Takaka Waitapu Bridge	1580		
63	4	Renwick Waihopai	860		
63	87	Tophouse North of Intersection	430		
63	116	Kawatiri Upper Buller River	300		
65	72	Springs Junction Nth	650		
67	0	Westport North Of SH6 Junction	1200		
67	5	South of Buller River	3600		

Transit New Zealand

Traffic Volumes

1996

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HCV
67	7	Westport Brougham St	3700	
67	9	Westport North Orowaiti River	1400	
67	22	Waimangaroa South of Township	1400	
67	31	Granity	1000	
67	51	North of Mokihinui River	380	
67A	0	Westport Nth of SH67 Junction	2200	
69	0	Inangahua Junction South of SH6	650	
69	29	Reefton Nth of Burkes Creek	800	
69	32	Reefton Buller Rd just Nth of Potter St	1500	
70	0	NE SH7 Junction	440	
70	18	Waiau South of Waiau River	500	
71	1	Lineside Rd NW of Kaiapoi	8000	
71	7	Rangiora Southbrook Rd Sth of Denches R	11000	
71	9	Rangiora Ivory St Nth of Buckham St	6000	
73	0	Ch'church Brougham St West of Waltham	30000	
73	1	Chch Brougham St West of Montreal St	30000	
73	4	Chch Southern M'Way West of Wrights Rd	19500	
73	7	Chch Curletts Rd Sth of Benheim Rd	30600	C
73	8	Chch Blenheim Rd West of Curletts Rd	32000	
73	9	Chch Main Stn Rd Nth of Springs Rd	35000	
73	10	Chch Main Stn Rd Sth of Springs Rd	22000	
73	15	Chch Yaldhurst Rd West of SH1	9400	
73	17	Yaldhurst Rd	6200	
73	22	West Melton	4600	
73	26	Aylesbury East of Aylesbury Corner	2800	
73	27	Aylesbury West of Aylesbury Corner	2100	
73	40	Darfield East of Township	2100	
73	64	Springfield West of Springfield	1120	T 6
73	93	Castle Hill Straight	1000	
73	121	Cass East of Cass River	900	
73	142	Halpins Creek bridge	950	
73	146	Arthurs Pass Opposite National Park HQ	1010	S
73	159	Otira Just West of Otira River	805	
73	191	East of Taipo River	750	
73	225	Kumara Junction East	1500	
74	1	Chch Styx Sth	20000	
74	3	Chch Sth of Tuckers Rd	25000	
74	4	Chch Main Nth Rd	30000	
74	5	Chch Cranford St	18500	
74	8	Christchurch City North – Cranford St	20910	T 3
74	8	Chch Sherborne St, Sth of Cannon St	10500	

Transit New Zealand

Traffic Volumes

1996

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HCV
74	9	Chch Bealey Ave West of Manchester St	29000	
74	10	Chch Barbadoes St Sth of Gloucester St	12500	
74	11	Chch Moorhouse Ave East of Madras St	31000	
74	12	Chch Waltham Rd Sth of Moorhouse Ave	16500	
74	12	Chch Brougham St	25000	
74	14	Chch East of Ensors Rd	15000	
74	14	Chch Opawa Rd Sth of Garlands	8200	
74	15	Chch Port Hills Rd SE of Curries Rd	8600	
74	17	Chch Port Hills Rd East of Champans Rd	7600	
74	20	Chch Tunnel Portal at Heathcote	10000	C
74	22	Lyttleton Norwich Quay near Caltex	7600	
74	112	Chch Tunnel Rd	4800	
75	1	Christchurch Heathcote River Bridge	11500	
75	2	Christchurch North of Tankerville Rd	18000	(1995)
75	4	Ch'church Halswell Rd Nth of Dunbars Rd	13500	
75	9	Nth of Halswell River	4300	C
75	16	Taitapu	1900	
75	27	Motukarara East of McQueens Valley Rd	2100	
75	43	Birdlings Flat	1700	
75	52	Little River	1600	
75	61	Hilltop West of Summit Rd Junction	1250	
75	62	Hilltop just past hotel	1100	
75	67	Barrys Bay East of Cheese Factory	1300	
75	73	Robinsons Bay	1400	
75	79	Akaroa	2000	
77	0	Ashburton Kermode St	6200	
77	1	Ashburton Nth of Oak Grove	4000	
77	6	Ashburton North of Racecourse Road	1800	(1994)
77	21	River Rd	800	
77	29	Methven South of Reynolds Rd	1000	
77	41	Methven Waimarama Rd	150	
77	48	Mt Hutt Stn	280	
77	53	Rakaia Gorge between Bridges	680	
77	86	Homebush Sth of Homebush School Corner	1300	
77	94	Waddington Nth of Hawkins River	400	
78	1	Timaru Port Loop Rd NW of Marine Parade	2900	
79	9	Upper Orari East of Upper Orari Bridge	650	
79	10	Upper Orari Near Upper Orari Hall	1600	
79	15	Geraldine Cox St Nth of Lewis St	1220	
79	25	Gapes Valley Near Toomeys Bridge	950	
79	59	Fairlie East Of SH8	1200	
79	61	Fairlie	1500	

Transit New Zealand

Traffic Volumes

1996

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HCV
80	3	Lake Pukaki Nth of SH8 Junction	400	
82	0	Waimate Turnoff Sth of SH 1 Junction	1500	
82	8	Waimate Queen St NE of William St	2900	
82	20	Waiho Forsk NE of Douglas Bridge	460	
82	51	East of Penticotico Bridge	210	
83	2	Pukeuri West Of SH1	1000	
83	36	Dunroon West of Township	1530	
83	62	Kurow West of SH82 Junction	800	(1994)
83	106	Omarama East of SH 8 Junction	1395	
85	10	Palmerston Inch Valley	800	(1995)
85	61	Kyeburn East of SH87	530	
85	66	Kyeburn West of SH87	545	
85	128	Lauder	410	
85	159	Alexandra	1080	
87	1	Mosgiel	11750	
87	9	Outram Wylies Crossing	2260	
87	15	West Taieri	590	C
87	65	Middlemarch	460	
88	3	Dunedin Logan Point	5775	
88	10	Dunedin Roseneath	4645	
88	11	Dunedin Sawyers Bay	3885	
90	1	Raes Junction	510	
90	58	McNab	1415	
94	1	Gore Borough Boundary	2110	
94	2	Gore North of Borough Boundary	1825	
94	34	Riversdale	700	
94	59	Lumsden East of SH6	730	
94	64	Lumsden West of SH6	610	
94	136	Te Anau East	1470	C
94	141	Te Anau Upukerora River	690	
94	172	Retford Stream	395	C
96	9	Glencoe Near Hedgehope Stream Bridge	485	
96	42	Browns	1000	
96	56	Oreti Hotel	1305	
99	0	Lorneville East Of Railway Bridge	4200	
99	8	East of Argyle Corner	3855	
99	39	Colac	675	
99	75	Tuatapere	455	

Transit New Zealand

Traffic Volumes

1996

STATE HIGHWAY	DISTANCE	LOCATION	AADT	% HCV
99	127	Clifden near School	315	

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--0	(truck & trailer)
0-00--000	(6 axle artic.)
0-00--00--00	(7 axle B-train)
0--00-00-00	(truck & 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)

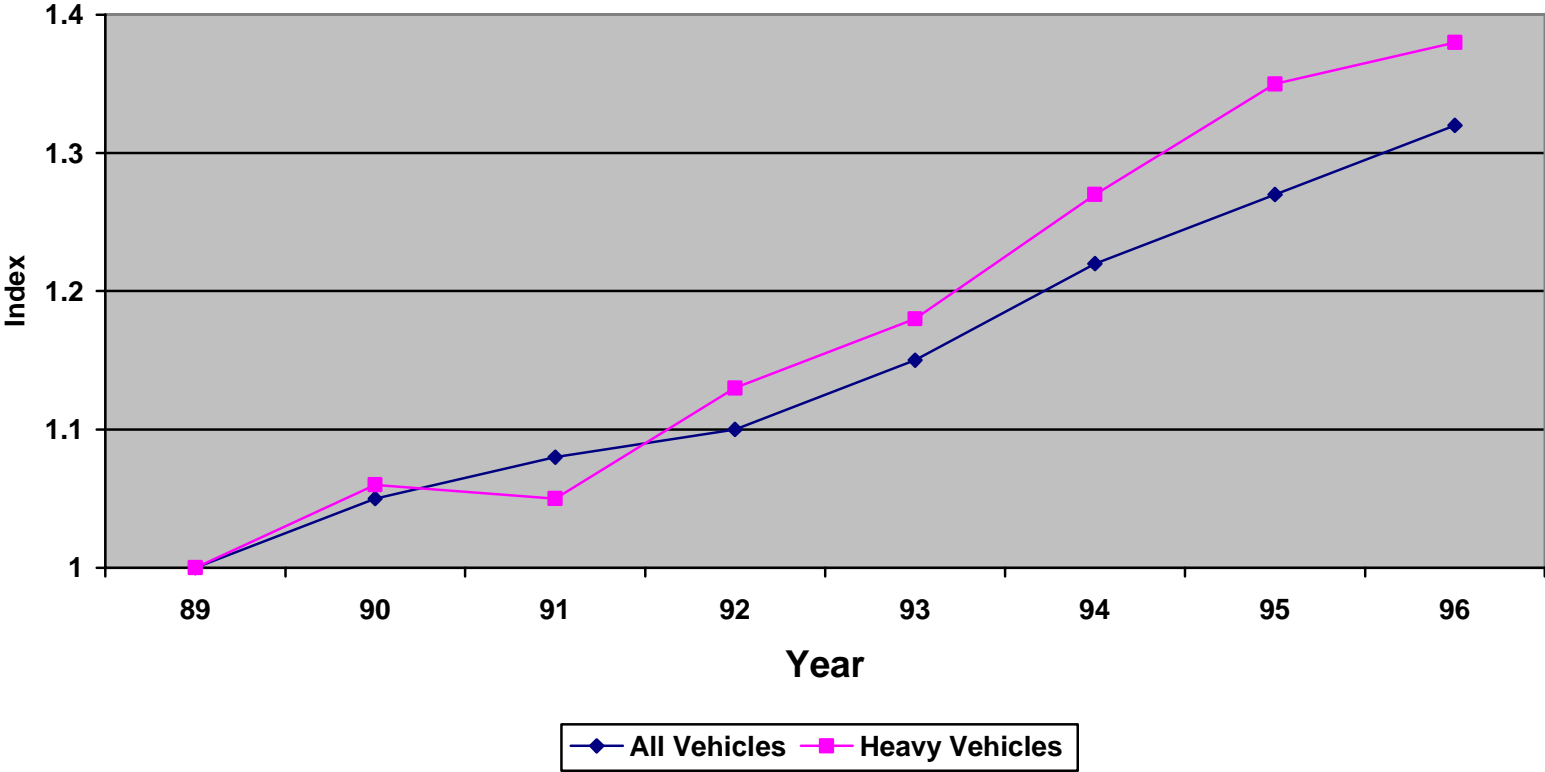
	SH1 Auckland Harbour Bridge	SH1 Auckland Southern Motorway	SH1 Ohakea	SH1 Pukerua Bay	SH1 Waipara (north of Chch)
o-o	21.3	14.0	8.4	15.0	14.9
o--o	38.9	17.2	18.2	18.7	14.4
o-o--o	2.2	2.1	2.4	2.6	2.5
o--oo	13.6	10.8	11.2	10.6	7.8
o--o-o--o	1.0	1.3	1.3	1.5	1.4
o-o--oo	1.5	2.3	4.0	4.2	2.3
oo--oo	2.2	2.3	3.1	1.9	3.8
o--oo-o--o				1.0	1.1
o-oo--oo	2.3	2.8	3.2	3.6	1.9
o--oo-o--oo	3.0	2.6	1.9	1.5	3.3
o-oo--ooo	5.9	14.9	14.7	11.9	9.5
o-oo--oo--oo (B-train)		5.4	2.5	2.1	4.0
o--oo-oo--oo (T&T)	1.7	2.0	3.0	1.6	2.7
oo--oo-o--oo	1.2	2.6	2.0	2.3	4.5
o-oo--ooo--oo		8.4	11.6	8.7	9.3
oo--oo-oo--oo	1.1	6.5	9.1	5.4	12.2
Other HMV's	4.1	4.8	3.4	7.4	4.4
Total	100	100	100	100	100

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

National Traffic Growth Indices



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.

SH 1 Auckland Harbour Bridge

Sample period - 337 days in 1996

	SAST	SADT	TADT	TRDT
Sample size	744991	609195	374242	48237
Average ESA	0.35	0.17	0.62	0.53
Std Dev	0.80	0.35	0.80	0.69

SH 1 Auckland Southern Motorway

Sample period - 292 days in 1996

	SAST	SADT	TADT	TRDT
Sample size	621993	341925	690672	147329
Average ESA	0.47	0.20	0.43	0.41
Std Dev	0.68	0.40	0.61	0.53

SH 1 Ohakea

Sample period - 366 days in 1996

	SAST	SADT	TADT	TRDT
Sample size	171461	83779	203991	45263
Average ESA	0.47	0.18	0.30	0.35
Std Dev	0.49	0.33	0.37	0.40

SH 1 Pukerua Bay

Sample period - 190 days in 1996

	SAST	SADT	TADT	TRDT
Sample size	178679	117338	174631	38871
Average ESA	0.33	0.15	0.26	0.40
Std Dev	0.75	0.38	0.45	0.68

SH 1 Waipara

	SAST	SADT	TADT	TRDT
Sample size	95530	56614	11935	18275
Average ESA	0.37	0.19	0.45	0.40
Std Dev	0.50	0.37	0.56	0.42

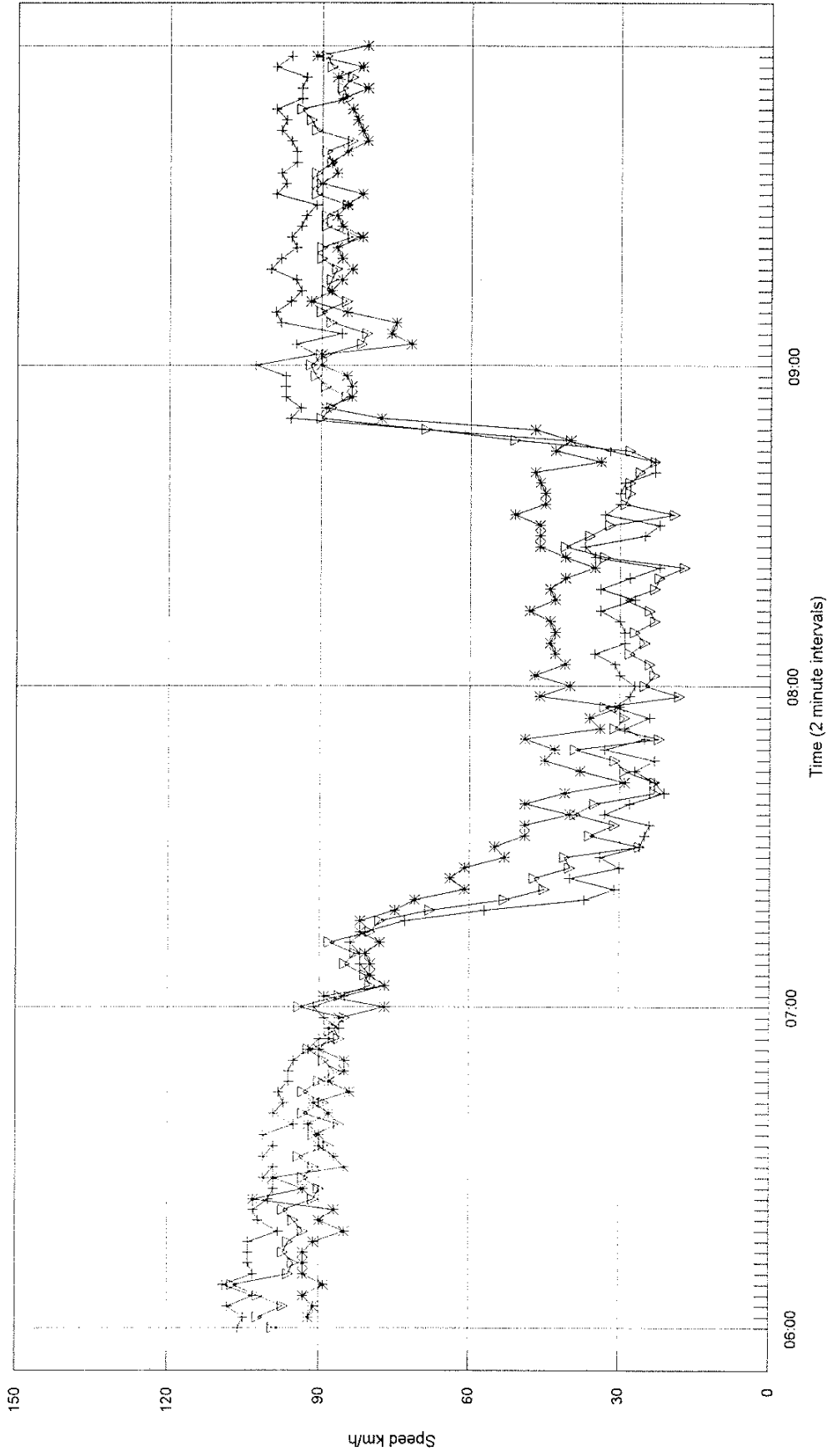
Traffic Congestion

Data is also collected at 2 locations (one, on the Auckland Southern Motorway just south of the Ellerslie/Penrose Interchange, the other at the bottom of Ngauranga Gorge just before the SH1 & SH2 merge on the Wellington Urban Motorway).

The main interest at these locations is what happens during the Weekday morning peak periods.

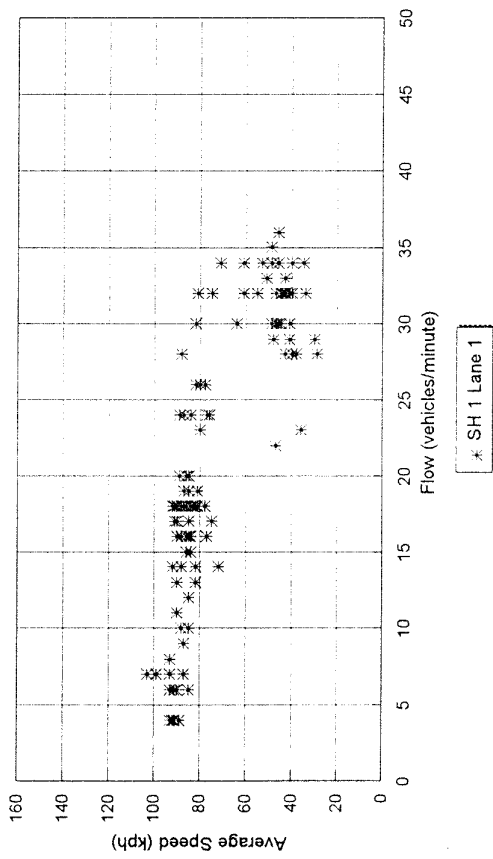
The following graphs show typical speed profiles (showing the extent of speed degradation during congested periods). As well, the speed flow relationships for each lane are provided, showing the maximum capacity is achieved at a speed of around 75-80 kilometres per hour.

Auckland Southern Motorway
Average Vehicle Speed - SH 1 Adj McNabb St Nth Bnd



* Lane 1 ▽ Lane 2 + Lane 3

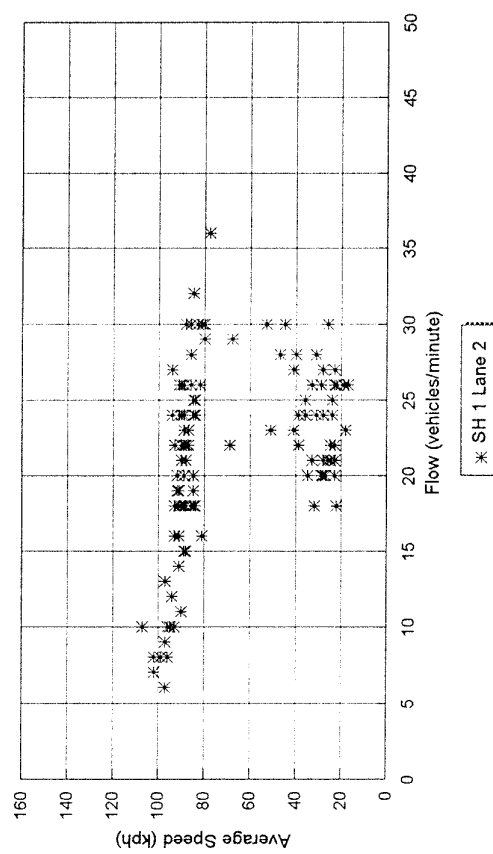
Auckland Southern Motorway - Sth of Ellerslie/Penrose Northbound
Speed versus Flow (6:00am-10:00am)



Fri 17 MAY 1996

* SH 1 Lane 1

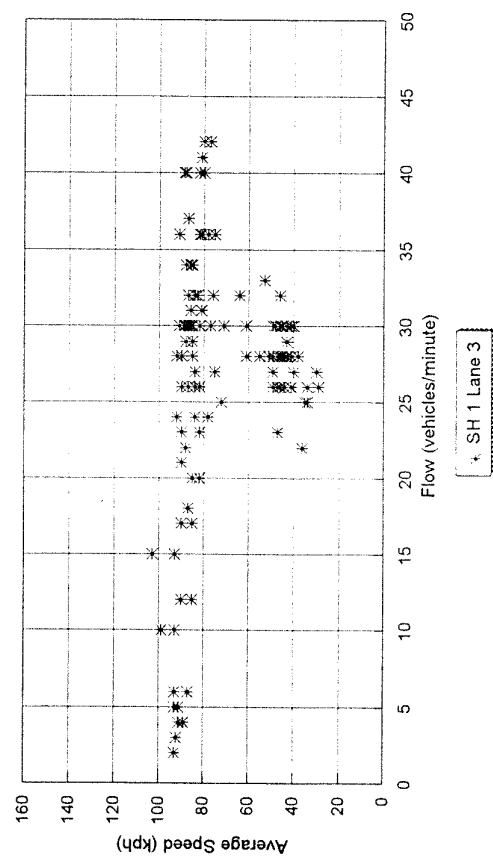
Auckland Southern Motorway - Sth of Ellerslie Penrose Northbound
Speed versus Flow (6:00am-10:00am)



Fri 17 MAY 1996

* SH 1 Lane 2

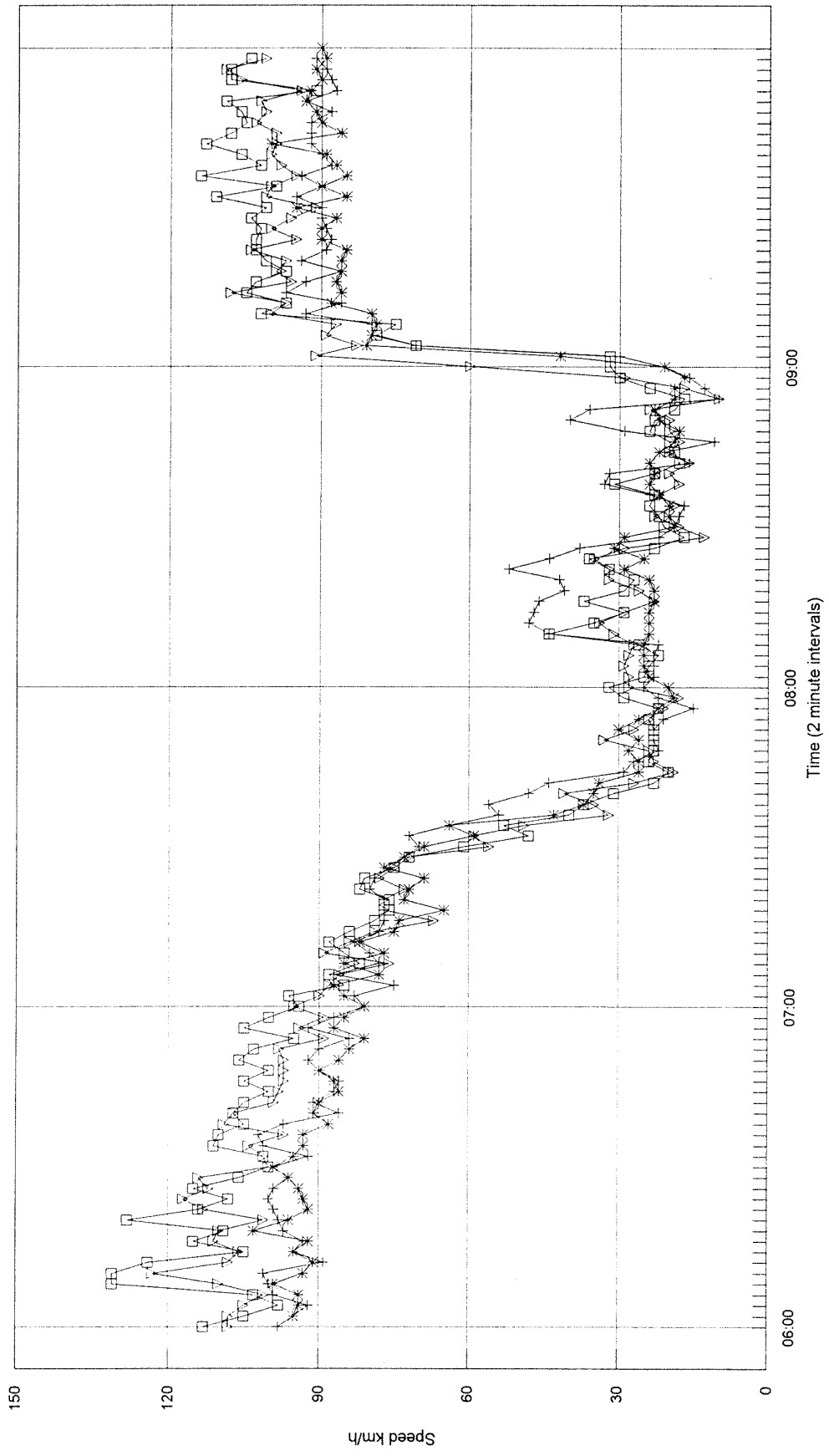
Auckland Southern Motorway - Sth of Ellerslie/Penrose Northbound
Speed versus Flow (6:00am-10:00am)



Fri 17 MAY 1996

* SH 1 Lane 3

Wellington Urban Motorway
Average Vehicle Speed - SH 1 & 2 Ngauranga Sth Bnd

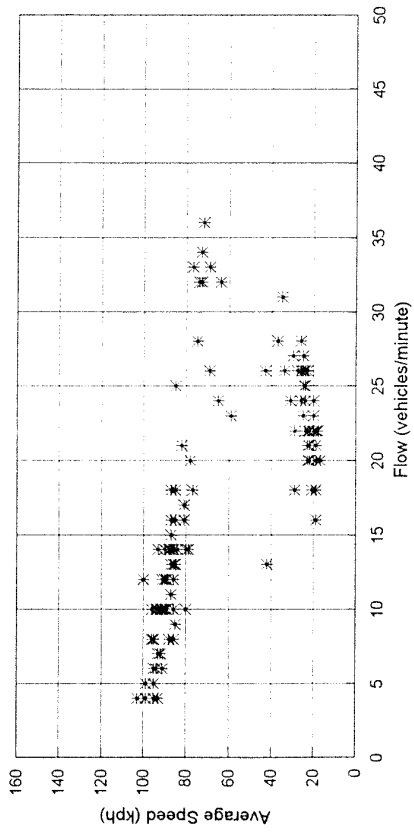


* Lane 1 SH1 ▽ Lane 2 SH1 + Lane 3 SH2 □ Lane 4 SH2

Tue 07 MAY 1996

Wellington Urban Motorway - Ngauranga

Speed versus Flow (6:00am-10:00am)

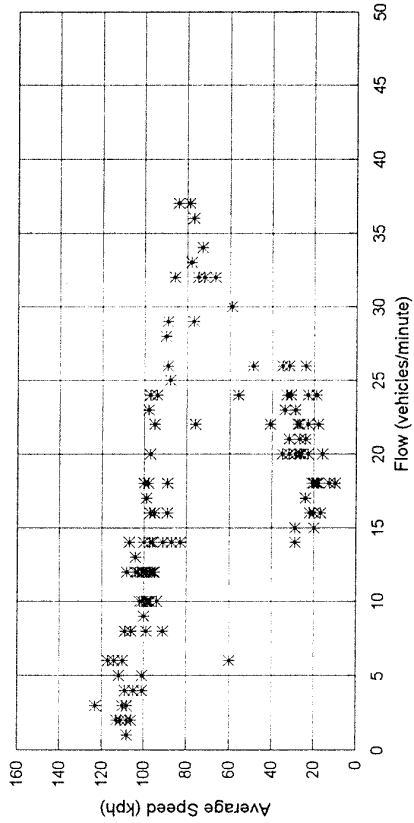


* SH 1 Lane 1

Tue 07 MAY 1996

Wellington Urban Motorway - Ngauranga

Speed versus Flow (6:00am-10:00am)

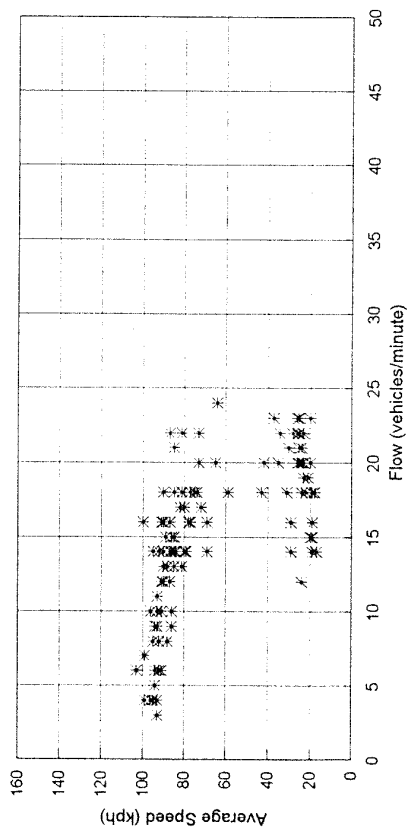


* SH 1 Lane 2 (merge)

Tue 07 MAY 1996

Wellington Urban Motorway - Ngauranga

Speed versus Flow (6:00am-10:00am)

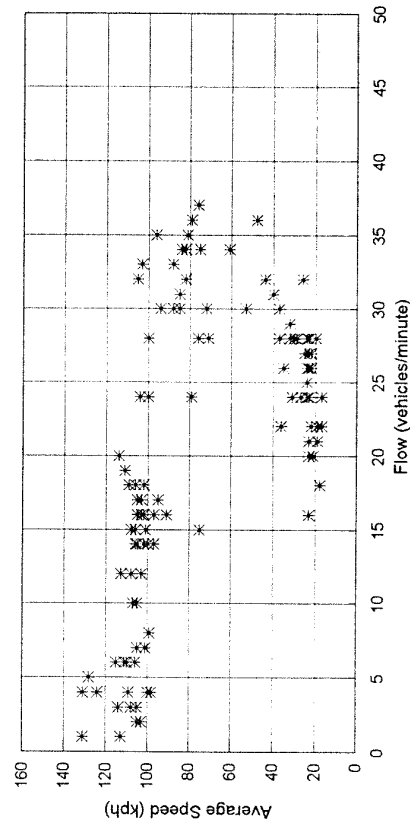


* SH 2 Lane 1 (merge)

Tue 07 MAY 1996

Wellington Urban Motorway - Ngauranga

Speed versus Flow (6:00am-10:00am)



* SH 2 Lane 2

Tue 07 MAY 1996