

Communities at Risk Register

This is a ranking based upon personal risk using fatal and serious crash data from the Transport Agency's Crash Analysis System (CAS).

Introduction

The Communities at Risk Register has been developed by the Transport Agency to identify communities of road users that are over-represented in terms of road safety risk. The register highlights personal risk to road users by ranking communities by local authority area based on the Safer Journeys areas of concern.

< <http://www.saferjourneys.govt.nz/> >

Using the register

The Communities at Risk Register highlights personal risk to road users. Alongside these personal risk calculations are the average annual death and serious injury (DSI) counts based on the latest five year data (the collective risk at a local body level, regional level and national level) from the Transport Agency's Crash Analysis System (CAS).

This is one view of risk and other sources of information should also be considered in addressing road safety. Individual TAs will then need to determine, through their road safety action planning, how this risk should be addressed, i.e. by taking into account the four safe systems pillars: safe roads and roadsides, safe users, safe speeds and safe vehicles.

Fourteen strategic areas of concern from Safer Journeys are presented; in ranking personal risk for each we have identified two groups of concern:

- **High concern** is assigned to communities with personal risk profiles greater than one standard deviation from the mean.
- **Medium concern** is assigned to communities with personal risk profiles greater than half a standard deviation from the mean and below one standard deviation.

Data sources and methodology

The Communities at Risk Register uses fatal and serious injury crash data from CAS over the latest five year period, 2010-2014.

Five year annual average death and serious injury (DSI) is the measure used in collective risk. This value is then considered against road user use relative to the specific Safer Journeys topic, thus the exposure to the outcome DSI and a measure of personal risk.

The calculation of exposure to risk (death or serious injury) is based on 100 million vehicle kilometres travelled (100MVKT) from the Road Assessment and Maintenance Management system (RAMM) and, for active road users (cyclists and pedestrians) millions of hours of travel (MHrs) from the Ministry of Transport's (MoT) ongoing Household Travel Survey.

VKT data was split by speed zoning (rural, zones posted greater than 70Km/hr and urban, zones posted less than 80Km/hr) to allocate use for intersections and loss of control crashes.

MoT's cyclist and pedestrian regional estimates are distributed by local population estimates from Statistics NZ (StatsNZ) to give a local level calculation of hours of travel.

For the subset young drivers, of light vehicles aged 16-24 years, licence counts from the Transport Agency's Drivers Licence Register (DLR) is used, the local and regional proportion of licensed young drivers has been used to allocate VKT use by proportion of all drivers locally.

For the subset older road users, those persons over 74 years of age, the local proportion of populations using current estimates from Statistics NZ census results has been used to allocate VKT as a measure of relative exposure.

For the subset motorcyclists, the MoT estimate of 1% of VKT has been used across all local bodies.

As a topic Trucks is a medium strategic concern but has not been included in the register because there is limited specific VKT data available at a local body level from which to derive a risk profile.

Note: This version of the Register differs from previous versions because of a methodological change. Previously, the five year average had been adjusted by adding two thirds of a unit of slope to add relevance to more recent data and take account of recent interventions. This version has not been slope adjusted.

CONTENT links

Overview

All deaths & serious casualties 1

High strategic priority

Young drivers (of light vehicles aged 16-24yrs) 2

Alcohol & drugs 3

Speed (too fast for conditions) 4

Urban intersections (subset of roads & roadsides) 5

Rural intersections (subset of roads & roadsides) 6

All Intersections (subset of roads & roadsides) 7

Rural roads (loss of control & head-on - subset of roads & roadsides) 8

Motorcyclists (crashes involving motorcycles & mopeds) 9

Medium strategic priority

Cyclists 10

Pedestrians 11

Distraction (attention diverted) 12

Fatigue 13

Emerging strategic priority

Older road users (aged 75yrs and over) 14

Restraints (seatbelt not worn) 15

All deaths and serious casualties

2015 Register

PERSONAL RISK	Ranking	Standard Deviation	COLLECTIVE RISK	PERSONAL RISK	COLLECTIVE RISK	
DSI/100MVKT	Territorial Authority		5yr AVG DSI	DSI/100MVKT	5yr AVG DSI	
				Road Safety Regions		
14	Opotiki District		16	8	NORTHLAND	132
12	Wairoa District		14	5	AUCKLAND	471
11	Ruapehu District		26	7	WAIKATO	340
11	Kaipara District		26	8	BAY OF PLENTY	182
11	Kawerau District		2	7	TARANAKI	67
11	Dunedin City		89	7	MANAWATU WANGANUI	175
10	Grey District		14	7	GISBORNE	29
10	Waitomo District		20	8	HAWKE'S BAY	100
9	Stratford District	1 STDEV	10	5	WELLINGTON	177
9	Westland District		18	6	TASMAN NELSON MARLBOROUGH	79
8	Otorohanga District		11	9	WEST COAST	45
8	Western Bay Of Plenty District		53	6	CANTERBURY	359
8	Thames-Coromandel District	0.5 STDEV	26	8	OTAGO	189
8	Tararua District		22	6	SOUTHLAND	78
8	Far North District		56			
8	Wanganui District		23	6	NATIONAL	2423
8	Clutha District		26			
7	Whakatane District		29			
7	South Taranaki District		23			
7	Gisborne District		29			
7	Buller District		12			
7	Queenstown-Lakes District		29			
7	Christchurch City		196			
7	South Wairarapa District		8			
7	Hastings District		54			
7	Matamata-Piako District		38			
7	Manawatu District		28			
7	Southland District		48			
7	Palmerston North City	MEAN	34			
7	Rotorua District		44			
6	Masterton District		11			
6	South Waikato District		23			
6	Rural North		57			
6	Horowhenua District		24			
6	Invercargill City		22			
6	Central Otago District		23			
6	Kaikoura District		7			
6	Mackenzie District		9			
6	Whangarei District		50			
6	Waikato District		79			
6	Central Hawkes Bay District		12			
6	Marlborough District		27			
6	Taupo District		36			
6	Carterton District		6			
6	Waipa District		34			
6	Hurunui District		21			
6	Waitaki District		22			
6	Selwyn District		43			
6	Upper Hutt City		15			
6	Rural South		48			
6	Rangitikei District		18			
6	Tasman District		29			
6	Waimakariri District		30			
5	Wellington City		68			
5	Hamilton City		52			
5	New Plymouth District		34			
5	Nelson City		22			
5	Hauraki District		20			
5	Napier City		20			
5	Urban West		48			
5	Waimate District		9			
5	Ashburton District		22			
5	Gore District		8			
5	Timaru District		22			
5	Kapiti Coast District		21			
4	Hutt City		29			
4	Urban Central		148			
4	Tauranga City		38			
4	Porirua City		18			
4	Urban South		112			
2	Urban North		55			
	Gulf Islands		2			
	Chatham Islands Council		0			

Young drivers (of light vehicles aged 16-24yrs)

2015 Register

PERSONAL RISK	Ranking	Standard Deviation	COLLECTIVE RISK	PERSONAL RISK	COLLECTIVE RISK	
DSI/100MVKT	Territorial Authority		5yr AVG DSI	DSI/100MVKT	5yr AVG DSI	
				Road Safety Regions		
42	Dunedin City		31	25	NORTHLAND	35
40	Kawerau District		1	16	AUCKLAND	145
38	Opotiki District		4	23	WAIKATO	97
35	Otorohanga District		4	31	BAY OF PLENTY	62
35	Western Bay Of Plenty District		20	22	TARANAKI	19
33	Grey District		4	24	MANAWATU WANGANUI	49
33	Kaipara District		7	18	GISBORNE	6
33	Carterton District		3	21	HAWKE'S BAY	24
31	Westland District		6	19	WELLINGTON	45
31	South Wairarapa District		3	14	TASMAN NELSON MARLBOROUGH	18
31	Ruapehu District		6	28	WEST COAST	13
31	Whakatane District	1 STDEV	11	18	CANTERBURY	99
29	Rotorua District		17	27	OTAGO	61
29	Waitomo District		5	22	SOUTHLAND	26
28	Wairoa District		3			
27	South Waikato District		8	19	NATIONAL	700
27	South Taranaki District		7			
26	Waimakariri District		13			
26	Invercargill City	0.5 STDEV	8			
25	Southland District		16			
25	Waipa District		12			
25	Matamata-Piako District		11			
25	Manawatu District		8			
25	Clutha District		8			
25	Wanganui District		6			
24	Central Otago District		8			
24	Thames-Coromandel District		7			
24	Rural North		19			
24	Palmerston North City		10			
24	Rangitikei District		7			
24	Central Hawkes Bay District		4			
23	Tararua District		6			
23	Far North District	MEAN	15			
21	Queenstown-Lakes District		8			
21	Stratford District		2			
21	Christchurch City		51			
20	Rural South		15			
20	Waitaki District		7			
20	Buller District		3			
20	Masterton District		3			
20	Upper Hutt City		4			
19	Whangarei District		13			
19	Waikato District		21			
19	Waimate District		3			
19	New Plymouth District		10			
18	Kaikoura District		2			
18	Gisborne District		6			
18	Timaru District		7			
18	Selwyn District		11			
17	Taupo District		9			
17	Hastings District		12			
17	Hamilton City		14			
17	Urban West		14			
17	Marlborough District		6			
16	Napier City		5			
16	Horowhenua District		5			
16	Hurunui District		5			
15	Mackenzie District		2			
15	Porirua City		6			
15	Gore District		2			
14	Ashburton District		5			
14	Urban South		37			
14	Tasman District		7			
13	Wellington City		14			
13	Urban Central		42			
12	Nelson City		5			
12	Hauraki District		4			
11	Tauranga City		10			
11	Hutt City		7			
10	Kapiti Coast District		4			
8	Urban North		16			
	Gulf Islands		0			
	Chatham Islands Council		0			

Alcohol and/or drugs

2015 Register

PERSONAL RISK	Ranking	Standard Deviation	COLLECTIVE RISK	PERSONAL RISK	COLLECTIVE RISK
DSI/100MVKT	Territorial Authority		5yr AVG DSI	DSI/100MVKT	5yr AVG DSI
				Road Safety Regions	
5	Wairoa District		6	3	NORTHLAND
4	Kawerau District		1	1	AUCKLAND
4	Kaipara District		10	2	WAIKATO
3	Opotiki District		4	2	BAY OF PLENTY
3	Gisborne District		13	2	TARANAKI
3	Otorohanga District		4	2	MANAWATU WANGANUI
3	Far North District		21	3	GISBORNE
3	Grey District		4	2	HAWKE'S BAY
3	Central Hawkes Bay District		5	1	WELLINGTON
3	Masterton District	1 STDEV	5	1	TASMAN NELSON MARLBOROUGH
3	Carterton District		2	2	WEST COAST
3	Tararua District		7	1	CANTERBURY
2	South Taranaki District		8	2	OTAGO
2	Western Bay Of Plenty District		15	1	SOUTHLAND
2	Wanganui District		7		
2	Ruaapehu District		6	1	NATIONAL
2	Whakatane District	0.5 STDEV	9		
2	Dunedin City		16		
2	Clutha District		6		
2	Buller District		3		
2	Stratford District		2		
2	Hauraki District		7		
2	Rural North		16		
2	Manawatu District		7		
2	Southland District		12		
2	Queenstown-Lakes District	MEAN	7		
2	Marlborough District		7		
2	Waikato District		21		
2	Urban West		15		
2	Palmerston North City		8		
2	Thames-Coromandel District		5		
2	Rangitikei District		5		
2	Westland District		3		
2	Matamata-Piako District		8		
2	Waimate District		3		
2	Whangarei District		12		
1	Invercargill City		5		
1	Waipa District		8		
1	New Plymouth District		9		
1	Rural South		12		
1	South Waikato District		5		
1	Horowhenua District		5		
1	Hastings District		10		
1	Ashburton District		6		
1	Tasman District		7		
1	Kaikoura District		1		
1	Waimakariri District		7		
1	Selwyn District		9		
1	Urban South		38		
1	Napier City		5		
1	Rotorua District		8		
1	Central Otago District		4		
1	Waitaki District		4		
1	Upper Hutt City		3		
1	Taupo District		6		
1	Hurunui District		4		
1	Christchurch City		27		
1	Waitomo District		2		
1	Urban Central		34		
1	Hamilton City		9		
1	Hutt City		6		
1	Kapiti Coast District		4		
1	Wellington City		10		
1	Nelson City		3		
1	Timaru District		4		
1	Mackenzie District		1		
1	Gore District		1		
1	Porirua City		3		
1	South Wairarapa District		1		
1	Tauranga City		6		
1	Urban North		12		
	Gulf Islands		1		
	Chatham Islands Council		0		

Speed (too fast for the conditions)

2015 Register

PERSONAL RISK	Ranking	Standard Deviation	COLLECTIVE RISK	PERSONAL RISK	COLLECTIVE RISK	
DSI/100MVKT	Territorial Authority		5yr AVG DSI	DSI/100MVKT	5yr AVG DSI	
				Road Safety Regions		
5	Wairoa District		6	2	NORTHLAND	37
4	Opotiki District		4	1	AUCKLAND	101
3	Kaipara District		8	2	WAIKATO	85
3	Otorohanga District		4	2	BAY OF PLENTY	42
3	Grey District		4	2	TARANAKI	19
3	Wanganui District		8	2	MANAWATU WANGANUI	39
3	Stratford District		3	2	GISBORNE	10
3	Westland District		5	2	HAWKE'S BAY	25
3	Thames-Coromandel District		8	2	WELLINGTON	43
3	Ruapehu District	1 STDEV	6	1	TASMAN NELSON MARLBOROUGH	18
2	Gisborne District		10	3	WEST COAST	13
2	South Wairarapa District		3	1	CANTERBURY	61
2	Tararua District		7	2	OTAGO	39
2	Hurunui District		8	1	SOUTHLAND	17
2	Far North District		16			
2	Whakatane District		9	1	NATIONAL	550
2	Central Hawkes Bay District		4			
2	Carterton District		2			
2	Waitomo District	0.5 STDEV	4			
2	Masterton District		4			
2	Buller District		4			
2	Western Bay Of Plenty District		13			
2	South Waikato District		7			
2	Dunedin City		16			
2	Clutha District		7			
2	Matamata-Piako District		10			
2	South Taranaki District		6			
2	Kawerau District		0			
2	Waimate District		3			
2	Southland District	MEAN	12			
2	Queenstown-Lakes District		7			
2	Whangarei District		12			
2	Hauraki District		6			
2	New Plymouth District		10			
2	Waipa District		9			
2	Rural North		14			
1	Tasman District		8			
1	Waitaki District		6			
1	Urban West		14			
1	Hastings District		11			
1	Rotorua District		9			
1	Rural South		12			
1	Waikato District		17			
1	Palmerston North City		7			
1	Selwyn District		10			
1	Marlborough District		6			
1	Hutt City		9			
1	Invercargill City		4			
1	Kaikoura District		1			
1	Horowhenua District		5			
1	Taupo District		7			
1	Kapiti Coast District		6			
1	Hamilton City		11			
1	Napier City		5			
1	Waimakariri District		6			
1	Upper Hutt City		3			
1	Porirua City		5			
1	Nelson City		5			
1	Central Otago District		4			
1	Ashburton District		5			
1	Wellington City		12			
1	Manawatu District		4			
1	Timaru District		4			
1	Urban South		26			
1	Christchurch City		23			
1	Gore District		1			
1	Rangitikei District		3			
1	Urban Central		25			
1	Mackenzie District		1			
1	Tauranga City		6			
0	Urban North		11			
	Gulf Islands		1			
	Chatham Islands Council		0			

Urban intersections

2015 Register

PERSONAL RISK	Ranking	Standard Deviation	COLLECTIVE RISK	PERSONAL RISK	COLLECTIVE RISK
DSI/100MVKT	Territorial Authority		5yr AVG DSI	DSI/100MVKT	5yr AVG DSI
				Road Safety Regions	
7	Dunedin City		31	1	NORTHLAND
6	Taranua District		2	2	AUCKLAND
5	Southland District		2	3	WAIKATO
5	Horowhenua District		4	3	BAY OF PLENTY
4	Hauraki District		2	2	TARANAKI
4	Waitomo District		1	3	MANAWATU WANGANUI
4	Grey District		2	3	GISBORNE
4	Matamata-Piako District		3	2	HAWKE'S BAY
4	Waimate District		1	2	WELLINGTON
4	Invercargill City		10	2	TASMAN NELSON MARLBOROUGH
4	Buller District		1	4	WEST COAST
4	Christchurch City		89	2	CANTERBURY
4	Wanganui District	1 STDEV	7	3	OTAGO
4	Waipa District		5	3	SOUTHLAND
4	Opotiki District		1		
3	South Taranaki District		2	3	NATIONAL
3	Wellington City		25		
3	Palmerston North City	0.5 STDEV	11		
3	Marlborough District		3		
3	Whakatane District		3		
3	Taupo District		4		
3	Wairoa District		1		
3	Urban Central		66		
3	Rotorua District		8		
3	Clutha District		1		
3	Hastings District		7		
3	New Plymouth District		8		
3	Westland District		0		
3	Gisborne District		4		
3	Western Bay Of Plenty District	MEAN	2		
3	Timaru District		5		
2	Hamilton City		21		
2	Kawerau District		0		
2	Ruapehu District		1		
2	Urban West		15		
2	Napier City		6		
2	Ashburton District		2		
2	Waimakariri District		3		
2	South Waikato District		1		
2	Rural South		5		
2	Waitaki District		2		
2	Nelson City		6		
2	Queenstown-Lakes District		3		
2	Kapiti Coast District		4		
2	Masterton District		2		
2	Central Otago District		1		
2	Hutt City		9		
2	Urban South		38		
2	Upper Hutt City		2		
2	Selwyn District		2		
2	South Wairarapa District		0		
2	Porirua City		4		
2	Tasman District		2		
2	Waikato District		3		
2	Rural North		2		
1	Kaipara District		2		
1	Manawatu District		1		
1	Rangitikei District		0		
1	Tauranga City		11		
1	Urban North		17		
1	Thames-Coromandel District		1		
1	Kaikoura District		0		
1	Central Hawkes Bay District		0		
1	Whangarei District		6		
1	Gore District		0		
1	Otorohanga District		0		
1	Carterton District		0		
1	Far North District		3		
1	Stratford District		0		
0	Hurunui District		0		
0	Mackenzie District		0		
	Gulf Islands		0		
	Chatham Islands Council		0		

Rural intersections

2015 Register

PERSONAL RISK DSI/100MVKT	Ranking Territorial Authority	Standard Deviation	COLLECTIVE RISK 5yr AVG DSI	PERSONAL RISK DSI/100MVKT	Road Safety Regions	COLLECTIVE RISK 5yr AVG DSI
3	Kawerau District		0	1	NORTHLAND	12
3	Palmerston North City		5	1	AUCKLAND	27
2	Hamilton City		3	1	WAIKATO	39
2	Whangarei District		7	2	BAY OF PLENTY	20
2	Selwyn District		14	1	TARANAKI	9
2	Manawatu District		7	1	MANAWATU WANGANUI	24
2	Timaru District		6	2	GISBORNE	3
2	Waitomo District		4	1	HAWKE'S BAY	8
2	Christchurch City		10	1	WELLINGTON	10
2	Horowhenua District	1 STDEV	5	1	TASMAN NELSON MARLBOROUGH	8
2	Opotiki District		2	0	WEST COAST	2
2	South Taranaki District		4	1	CANTERBURY	45
2	Upper Hutt City		2	1	OTAGO	18
2	Western Bay Of Plenty District		9	1	SOUTHLAND	9
2	Ashburton District		5			
2	Napier City		2	1	NATIONAL	236
2	Gisborne District		3			
2	Invercargill City		2			
2	Waitaki District		4			
1	Rural South		9			
1	Otorohanga District		2			
1	Waipa District	0.5 STDEV	6			
1	Carterton District		1			
1	Rotorua District		5			
1	Masterton District		1			
1	New Plymouth District		5			
1	Tauranga City		2			
1	Dunedin City		5			
1	Matamata-Piako District		6			
1	Waimakariri District		5			
1	Rural North		9			
1	Stratford District		1			
1	Central Otago District		4			
1	Far North District		4			
1	Tasman District	MEAN	5			
1	Clutha District		3			
1	Hastings District		5			
1	Southland District		6			
1	Kaipara District		1			
1	Mackenzie District		1			
1	South Waikato District		3			
1	Rangitikei District		3			
1	Tararua District		2			
1	Hurunui District		3			
1	Kaikoura District		1			
1	Hauraki District		3			
1	Waikato District		9			
1	Queenstown-Lakes District		2			
1	Marlborough District		3			
1	Wanganui District		1			
1	Ruapehu District		2			
1	Hutt City		2			
1	Grey District		1			
1	Nelson City		1			
1	Central Hawkes Bay District		1			
1	Gore District		1			
1	Kapiti Coast District		2			
1	Taupo District		3			
1	Whakatane District		2			
1	Westland District		1			
0	South Wairarapa District		0			
0	Wairoa District		0			
0	Thames-Coromandel District		1			
0	Urban South		4			
0	Porirua City		1			
0	Urban West		1			
0	Wellington City		1			
0	Urban North		2			
0	Buller District		0			
0	Urban Central		2			
0	Waimate District		0			
0	Gulf Islands		0			
	Chatham Islands Council		0			

All intersections

2015 Register

PERSONAL RISK	Ranking	Standard Deviation	COLLECTIVE RISK	PERSONAL RISK	COLLECTIVE RISK	
DSI/100MVKT	Territorial Authority		5yr AVG DSI	DSI/100MVKT	5yr AVG DSI	
				Road Safety Regions		
4	Dunedin City		36	1	NORTHLAND	22
4	Christchurch City		99	1	AUCKLAND	171
3	Invercargill City		12	1	WAIKATO	80
3	Palmerston North City		16	2	BAY OF PLENTY	45
3	Kawerau District		1	2	TARANAKI	20
3	Horowhenua District		10	2	MANAWATU WANGANUI	51
3	Wanganui District		8	2	GISBORNE	8
2	Hamilton City	1 STDEV	24	1	HAWKE'S BAY	22
2	Selwyn District		16	1	WELLINGTON	57
2	Timaru District		10	1	TASMAN NELSON MARLBOROUGH	19
2	Waitomo District		4	1	WEST COAST	6
2	Grey District		3	2	CANTERBURY	147
2	Wellington City		26	2	OTAGO	56
2	South Taranaki District		6	2	SOUTHLAND	21
2	Rotorua District		13			
2	Napier City		8	2	NATIONAL	725
2	New Plymouth District		13			
2	Waipa District		11			
2	Gisborne District	0.5 STDEV	8			
2	Manawatu District		8			
2	Opotiki District		2			
2	Urban Central		68			
2	Upper Hutt City		5			
2	Masterton District		3			
2	Ashburton District		8			
2	Urban West		16			
2	Matamata-Piako District		9			
2	Western Bay Of Plenty District		11			
2	Waitaki District		6			
2	Rural South		14			
2	Nelson City		7			
2	Tararua District		5			
2	Hutt City	MEAN	11			
2	Hastings District		12			
2	Whangarei District		12			
1	Waimakariri District		8			
1	Urban South		42			
1	Otorohanga District		2			
1	Central Otago District		5			
1	Marlborough District		6			
1	Tauranga City		13			
1	Hauraki District		5			
1	Rural North		12			
1	Carterton District		1			
1	Tasman District		7			
1	Clutha District		4			
1	Queenstown-Lakes District		5			
1	Whakatane District		5			
1	Southland District		8			
1	Kapiti Coast District		5			
1	Kaipara District		3			
1	South Waikato District		4			
1	Stratford District		1			
1	Taupo District		6			
1	Porirua City		5			
1	Far North District		7			
1	Rangitikei District		3			
1	Waikato District		12			
1	Ruapehu District		2			
1	Kaikoura District		1			
1	Mackenzie District		1			
1	Wairoa District		1			
1	Urban North		19			
1	Buller District		1			
1	Hurunui District		3			
1	Central Hawkes Bay District		1			
1	Gore District		1			
1	South Wairarapa District		1			
1	Westland District		1			
1	Thames-Coromandel District		2			
0	Waimate District		1			
	Gulf Islands		0			
	Chatham Islands Council		0			

Rural road loss of control and/or head-on (speed zones >70km/hr)

2015 Register

PERSONAL RISK	Ranking	Standard Deviation	COLLECTIVE RISK	PERSONAL RISK	COLLECTIVE RISK
DSI/100MVKT	Territorial Authority		5yr AVG DSI	DSI/100MVKT	5yr AVG DSI
				Road Safety Regions	
16	Kawerau District		1	11	NORTHLAND
15	Kaipara District		19	2	AUCKLAND
13	Wairoa District		12	5	WAIKATO
10	Opotiki District		10	7	BAY OF PLENTY
10	Far North District		36	5	TARANAKI
8	Whangarei District		25	5	MANAWATU WANGANUI
8	Thames-Coromandel District		19	8	GISBORNE
8	Grey District		7	7	HAWKE'S BAY
8	Ruapehu District	1 STDEV	17	3	WELLINGTON
8	Westland District		15	4	TASMAN NELSON MARLBOROUGH
8	Stratford District		6	7	WEST COAST
8	Gisborne District		17	4	CANTERBURY
7	Waitomo District		14	5	OTAGO
7	Kaikoura District		6	4	SOUTHLAND
7	Masterton District		6		
7	South Wairarapa District	0.5 STDEV	6	4	NATIONAL
6	Clutha District		19		
6	Otorohanga District		7		
6	Queenstown-Lakes District		17		
6	Buller District		8		
6	Tararua District		14		
5	Central Hawkes Bay District		9		
5	Dunedin City		19		
5	Western Bay Of Plenty District		30		
5	Central Otago District		15		
5	South Taranaki District		12		
5	Southland District		34		
5	Hurunui District		17		
5	Hastings District		26		
5	Wanganui District	MEAN	7		
5	Rotorua District		19		
5	Mackenzie District		6		
5	Taupo District		22		
5	Marlborough District		17		
5	Rural North		36		
5	South Waikato District		13		
5	Matamata-Piako District		22		
5	Manawatu District		16		
4	Waikato District		50		
4	Whakatane District		13		
4	Tasman District		18		
4	Horowhenua District		13		
4	Carterton District		3		
4	Waitaki District		12		
4	Rangitikei District		11		
4	Waimate District		6		
4	Napier City		5		
4	Waimakariri District		16		
4	Rural South		23		
4	Selwyn District		23		
3	Ashburton District		12		
3	Gore District		4		
3	Nelson City		5		
3	Hauraki District		11		
3	Hamilton City		4		
3	Upper Hutt City		5		
3	Tauranga City		4		
3	New Plymouth District		10		
3	Waipa District		13		
3	Kapiti Coast District		8		
3	Invercargill City		3		
3	Christchurch City		15		
2	Timaru District		7		
2	Palmerston North City		3		
2	Urban West		5		
2	Porirua City		4		
1	Wellington City		6		
1	Hutt City		3		
1	Urban South		12		
1	Urban North		6		
0	Urban Central		6		
	Gulf Islands		1		
	Chatham Islands Council		0		

Motorcyclist involved

2015 Register

PERSONAL RISK DSI/100MVKT	Ranking Territorial Authority	Standard Deviation	COLLECTIVE RISK 5yr AVG DSI	PERSONAL RISK DSI/100MVKT	Road Safety Regions	COLLECTIVE RISK 5yr AVG DSI
330	Stratford District		4	143	NORTHLAND	21
291	South Wairarapa District		3	84	AUCKLAND	84
284	Grey District		4	121	WAIKATO	62
268	Kawerau District		1	150	BAY OF PLENTY	33
236	Thames-Coromandel District		8	193	TARANAKI	15
227	Kaipara District		5	136	MANAWATU WANGANUI	32
218	Wanganui District		7	106	GISBORNE	4
207	Opotiki District	1 STDEV	2	133	HAWKE'S BAY	18
173	Buller District		3	137	WELLINGTON	42
169	Ruapehu District		4	125	TASMAN NELSON MARLBOROUGH	18
167	Wairoa District		2	204	WEST COAST	10
162	Kaikoura District		2	110	CANTERBURY	69
162	Central Otago District	0.5 STDEV	6	120	OTAGO	28
155	Westland District		3	58	SOUTHLAND	8
151	Otorohanga District		2			
150	Masterton District		3	106	NATIONAL	443
150	Rural North		13			
149	Tasman District		8			
148	Christchurch City		41			
146	Central Hawkes Bay District		3			
142	Waimate District		2			
140	Tararua District		4			
138	South Taranaki District		4			
136	Upper Hutt City		4			
131	Hurunui District		5			
130	Western Bay Of Plenty District		8			
128	Tauranga City	MEAN	13			
127	Clutha District		4			
127	Marlborough District		6			
125	Matamata-Piako District		7			
125	Hauraki District		5			
124	Wellington City		16			
123	Waikato District		16			
120	Hastings District		9			
119	Manawatu District		5			
118	Dunedin City		10			
116	Waitomo District		2			
112	Palmerston North City		6			
112	New Plymouth District		7			
109	Kapiti Coast District		5			
109	Hamilton City		11			
108	Carterton District		1			
106	Gisborne District		4			
106	Queenstown-Lakes District		4			
106	Urban West		10			
106	Selwyn District		8			
105	Far North District		8			
103	Mackenzie District		1			
101	Rangitikei District		3			
100	Nelson City		4			
98	Whangarei District		8			
97	Rotorua District		6			
96	Napier City		4			
91	Hutt City		6			
89	Horowhenua District		3			
85	Waitaki District		3			
84	Taupo District		5			
82	Urban Central		31			
82	Rural South		7			
82	Porirua City		4			
82	Ashburton District		4			
82	Waimakariri District		4			
81	Invercargill City		3			
74	Waipa District		4			
72	Whakatane District		3			
71	Southland District		5			
69	South Waikato District		2			
54	Urban North		12			
34	Timaru District		2			
31	Urban South		10			
23	Gore District		0			
	Gulf Islands		1			
	Chatham Islands Council		0			

Cyclist involved

2015 Register

PERSONAL RISK	Ranking	Standard Deviation	COLLECTIVE RISK	PERSONAL RISK	COLLECTIVE RISK	
DSI/Mhrs	Territorial Authority		5yr AVG DSI	DSI/Mhrs	5yr AVG DSI	
				Road Safety Regions		
22	Taupo District		3	11	NORTHLAND	4
18	Rotorua District		2	8	AUCKLAND	39
18	Kaipara District		0	9	WAIKATO	19
15	Tauranga City		5	10	BAY OF PLENTY	9
14	Hamilton City		8	5	TARANAKI	4
14	Invercargill City		2	4	MANAWATU WANGANUI	9
14	Hastings District		6	7	GISBORNE	1
14	Urban Central		19	8	HAWKE'S BAY	9
13	Whakatane District		1	3	WELLINGTON	23
13	Wairoa District		1	7	TASMAN NELSON MARLBOROUGH	7
12	Nelson City	1 STDEV	4	4	WEST COAST	1
11	Hauraki District		1	2	CANTERBURY	44
11	Queenstown-Lakes District		2	7	OTAGO	14
11	New Plymouth District		4	5	SOUTHLAND	2
10	Dunedin City		9			
10	Whangarei District		3	7	NATIONAL	187
10	Thames-Coromandel District		1			
9	Rural North		2			
9	Matamata-Piako District		1			
9	Waikato District		2			
9	Christchurch City		40			
9	Central Otago District	0.5 STDEV	1			
9	Opotiki District		0			
7	Waipa District		1			
7	Urban North		6			
7	Westland District		0			
7	Urban West		3			
7	Palmerston North City		5			
7	Gisborne District		1			
7	Wanganui District		2			
7	Wellington City		14			
6	Far North District	MEAN	1			
6	Rural South		1			
6	Napier City		2			
6	Urban South		7			
6	Waitomo District		0			
5	Tasman District		2			
5	Western Bay Of Plenty District		1			
5	Grey District		1			
4	Carterton District		0			
4	Ruapehu District		0			
4	Manawatu District		1			
4	Rangitikei District		0			
3	South Taranaki District		0			
3	Marlborough District		1			
3	Timaru District		2			
3	Hutt City		3			
3	Upper Hutt City		1			
2	Horowhenua District		1			
2	Kapiti Coast District		2			
2	South Waikato District		0			
2	Waimakariri District		1			
2	Porirua City		1			
2	South Wairarapa District		0			
2	Clutha District		0			
2	Masterton District		0			
1	Tararua District		0			
1	Waitaki District		1			
1	Hurunui District		0			
1	Selwyn District		1			
1	Waimate District		0			
0	Buller District		1			
0	Ashburton District		0			
0	Central Hawkes Bay District		0			
0	Gore District		0			
0	Kaikoura District		0			
0	Kawerau District		0			
0	Mackenzie District		0			
0	Otorohanga District		0			
0	Southland District		0			
0	Stratford District		0			
0	Gulf Islands		0			
	Chatham Islands Council		0			

Pedestrian involved

2015 Register

PERSONAL RISK	Ranking	Standard Deviation	COLLECTIVE RISK	PERSONAL RISK	COLLECTIVE RISK	
DSI/Mhrs	Territorial Authority		5yr AVG DSI	DSI/Mhrs	5yr AVG DSI	
				Road Safety Regions		
4	Rotorua District		6	3	NORTHLAND	9
4	Invercargill City		5	1	AUCKLAND	84
3	Kaipara District		1	2	WAIKATO	26
3	Hauraki District		2	3	BAY OF PLENTY	20
3	Gore District		1	2	TARANAKI	6
3	Waipa District		4	1	MANAWATU WANGANUI	11
3	Whakatane District		2	1	GISBORNE	3
3	Opotiki District		1	1	HAWKE'S BAY	8
2	Kaikoura District		0	1	WELLINGTON	33
2	Tauranga City		8	1	TASMAN NELSON MARLBOROUGH	7
2	South Waikato District	1 STDEV	2	1	WEST COAST	2
2	Whangarei District		5	1	CANTERBURY	43
2	Hamilton City		10	1	OTAGO	22
2	Dunedin City		15	3	SOUTHLAND	7
2	Western Bay Of Plenty District		3			
2	Waitomo District		1	1	NATIONAL	280
2	Far North District		3			
2	Stratford District		1			
2	Mackenzie District		0			
2	Christchurch City		33			
2	Tararua District		1			
2	Southland District	0.5 STDEV	1			
2	Ruapehu District		1			
2	Horowhenua District		2			
2	Thames-Coromandel District		2			
2	Hastings District		5			
2	Nelson City		4			
2	Queenstown-Lakes District		3			
2	South Taranaki District		2			
2	Taupo District		2			
2	Urban Central		36			
2	Napier City		3			
2	Waikato District		3			
2	Timaru District		3			
1	Wanganui District	MEAN	2			
1	Otorohanga District		0			
1	Palmerston North City		4			
1	Clutha District		1			
1	GISBORNE DISTRICT		3			
1	Rural North		4			
1	Westland District		0			
1	Matamata-Piako District		1			
1	Ashburton District		2			
1	Kawerau District		0			
1	Rural South		4			
1	Urban South		23			
1	South Wairarapa District		1			
1	New Plymouth District		3			
1	Wellington City		19			
1	Waimakariri District		2			
1	Urban West		8			
1	Grey District		1			
1	Waitaki District		2			
1	Central Hawkes Bay District		0			
1	Marlborough District		2			
1	Manawatu District		1			
1	Urban North		10			
1	Selwyn District		1			
1	Central Otago District		1			
1	Hutt City		6			
0	Porirua City		2			
0	Upper Hutt City		2			
0	Waimate District		0			
0	Rangitikei District		0			
0	Hurunui District		0			
0	Kapiti Coast District		3			
0	Tasman District		1			
0	Masterton District		1			
0	Buller District		1			
0	Carterton District		0			
0	Wairoa District		0			
0	Gulf Islands		0			
	Chatham Islands Council		0			

Distraction (crash factor: attention diverted)

2015 Register

PERSONAL RISK	Ranking	Standard Deviation	COLLECTIVE RISK	PERSONAL RISK	COLLECTIVE RISK	
DSI/100MVKT	Territorial Authority		5yr AVG DSI	DSI/100MVKT	5yr AVG DSI	
				Road Safety Regions		
4	Kawerau District		1	0	NORTHLAND	7
2	Stratford District		2	1	AUCKLAND	46
2	Opotiki District		2	1	WAIKATO	38
1	Dunedin City		12	1	BAY OF PLENTY	20
1	Westland District		3	1	TARANAKI	9
1	Wanganui District		4	1	MANAWATU WANGANUI	18
1	Waimate District	1 STDEV	2	1	GISBORNE	2
1	Ruapehu District		3	1	HAWKE'S BAY	12
1	Hastings District		8	0	WELLINGTON	14
1	Rangitikei District		3	1	TASMAN NELSON MARLBOROUGH	10
1	Waimakariri District		5	1	WEST COAST	4
1	Marlborough District		4	1	CANTERBURY	33
1	Waikato District		12	1	OTAGO	20
1	Whakatane District	0.5 STDEV	4	0	SOUTHLAND	7
1	South Taranaki District		3			
1	Mackenzie District		1	1	NATIONAL	241
1	Palmerston North City		4			
1	Rural North		7			
1	Napier City		3			
1	Nelson City		3			
1	Western Bay Of Plenty District		5			
1	Matamata-Piako District		4			
1	Upper Hutt City		2			
1	South Waikato District		3			
1	Taupo District		4			
1	Rural South	MEAN	6			
1	Southland District		5			
1	Hauraki District		3			
1	Timaru District		3			
1	Urban West		6			
1	New Plymouth District		4			
1	Queenstown-Lakes District		3			
1	Otorohanga District		1			
1	Rotorua District		4			
1	Waipa District		3			
1	Hamilton City		6			
1	Masterton District		1			
1	Hurunui District		2			
1	GISBORNE DISTRICT		2			
1	Thames-Coromandel District		2			
1	Ashburton District		2			
1	Selwyn District		4			
1	Waitaki District		2			
1	Far North District		4			
1	Central Hawkes Bay District		1			
1	Clutha District		2			
1	Kaipara District		1			
0	Taranua District		1			
0	Waitomo District		1			
0	Christchurch City		13			
0	Horowhenua District		2			
0	Invercargill City		2			
0	Tasman District		2			
0	Kapiti Coast District		2			
0	Grey District		1			
0	Tauranga City		4			
0	Wellington City		5			
0	Central Otago District		1			
0	Gore District		1			
0	Urban South		11			
0	South Wairarapa District		0			
0	Hutt City		2			
0	Whangarei District		2			
0	Manawatu District		1			
0	Urban Central		11			
0	Porirua City		1			
0	Urban North		5			
0	Wairoa District		0			
0	Buller District		0			
0	Carterton District		0			
0	Kaikoura District		0			
	Gulf Islands		0			
	Chatham Islands Council		0			

Fatigue

2015 Register

PERSONAL RISK DSI/100MVKT	Ranking Territorial Authority	Standard Deviation	COLLECTIVE RISK 5yr AVG DSI	PERSONAL RISK DSI/100MVKT	Road Safety Regions	COLLECTIVE RISK 5yr AVG DSI
3	Wairoa District		3	1	NORTHLAND	14
2	Kaikoura District		2	0	AUCKLAND	25
2	Opotiki District		2	1	WAIKATO	36
2	Tararua District		5	1	BAY OF PLENTY	17
2	Mackenzie District		2	1	TARANAKI	6
2	Ruapehu District		4	1	MANAWATU WANGANUI	22
1	Rangitikei District		4	1	GISBORNE	4
1	Grey District		2	1	HAWKE'S BAY	13
1	Westland District		3	0	WELLINGTON	10
1	South Taranaki District	1 STDEV	4	1	TASMAN NELSON MARLBOROUGH	7
1	Manawatu District		5	1	WEST COAST	5
1	Central Hawkes Bay District		2	1	CANTERBURY	24
1	South Waikato District		4	1	OTAGO	12
1	Gisborne District		4	0	SOUTHLAND	5
1	Matamata-Piako District	0.5 STDEV	5			
1	Stratford District		1	0	NATIONAL	200
1	Hastings District		7			
1	Western Bay Of Plenty District		6			
1	Hurunui District		3			
1	Waikato District		11			
1	Whangarei District		7			
1	Clutha District		3			
1	Far North District		6			
1	Waipa District		4			
1	Selwyn District		6			
1	Otorohanga District		1			
1	Kaipara District		2			
1	Central Otago District		3			
1	Whakatane District		3			
1	Waimate District		1			
1	Rotorua District		5			
1	Taupo District	MEAN	4			
1	Thames-Coromandel District		2			
1	Tasman District		3			
1	Carterton District		1			
1	Marlborough District		3			
1	Masterton District		1			
1	Hauraki District		2			
1	Southland District		4			
1	Rural North		5			
1	South Wairarapa District		1			
1	Dunedin City		4			
0	Horowhenua District		2			
0	Rural South		4			
0	Waimakariri District		2			
0	Wanganui District		1			
0	Waitomo District		1			
0	Queenstown-Lakes District		2			
0	Porirua City		2			
0	Ashburton District		2			
0	Buller District		1			
0	Waitaki District		1			
0	Kapiti Coast District		1			
0	Upper Hutt City		1			
0	Nelson City		1			
0	Palmerston North City		1			
0	Urban South		8			
0	Gore District		0			
0	Wellington City		3			
0	Timaru District		1			
0	New Plymouth District		1			
0	Christchurch City		5			
0	Hamilton City		2			
0	Tauranga City		2			
0	Urban Central		6			
0	Urban West		1			
0	Hutt City		1			
0	Invercargill City		0			
0	Napier City		0			
0	Urban North		1			
0	Kawerau District		0			
	Gulf Islands		0			
	Chatham Islands Council		0			

Older road users (those aged 75yrs and older)

2015 Register

PERSONAL RISK	Ranking	Standard Deviation	COLLECTIVE RISK	PERSONAL RISK	Road Safety Regions	COLLECTIVE RISK
DSI/100MVKT	Territorial Authority		5yr AVG DSI	DSI/100MVKT		5yr AVG DSI
33	Kawerau District		0	7	NORTHLAND	10
21	Dunedin City		12	6	AUCKLAND	33
15	Otorohanga District		1	9	WAIKATO	29
15	Selwyn District		4	12	BAY OF PLENTY	16
13	Invercargill City		4	9	TARANAKI	7
13	Christchurch City		24	7	MANAWATU WANGANUI	14
13	Clutha District	1 STDEV	3	4	GISBORNE	1
12	Western Bay Of Plenty District		6	6	HAWKE'S BAY	8
12	Queenstown-Lakes District		2	5	WELLINGTON	12
11	Westland District		1	4	TASMAN NELSON MARLBOROUGH	5
11	Ruapehu District		1	8	WEST COAST	3
10	Horowhenua District		4	8	CANTERBURY	39
10	Upper Hutt City		2	11	OTAGO	20
10	Grey District	0.5 STDEV	1	7	SOUTHLAND	6
10	Waikato District		5			
10	Hamilton City		5	8	NATIONAL	201
10	Mackenzie District		1			
10	Taupo District		4			
10	South Taranaki District		2			
9	Hastings District		5			
9	New Plymouth District		5			
9	Waitomo District		1			
9	Rotorua District		3			
9	Matamata-Piako District		4			
9	Waimakariri District		3			
9	Whangarei District		5			
9	Wanganui District		2			
9	Rural North		4			
8	Rural South		4			
8	Palmerston North City		3			
8	Napier City		3			
8	Hurunui District		2			
8	Waipa District	MEAN	3			
7	Kapiti Coast District		2			
7	South Waikato District		2			
7	Whakatane District		2			
7	Stratford District		1			
7	Ashburton District		2			
7	Waitaki District		3			
7	Thames-Coromandel District		2			
6	Urban West		2			
6	Manawatu District		2			
6	Far North District		3			
6	Urban Central		10			
6	Wellington City		3			
6	Hutt City		3			
6	Porirua City		1			
5	Nelson City		2			
5	Wairoa District		0			
5	Kaipara District		2			
5	Masterton District		1			
5	Urban South		6			
5	Opotiki District		0			
5	Tararua District		1			
5	Urban North		6			
4	Gisborne District		1			
4	Tauranga City		4			
4	Southland District		2			
4	Tasman District		2			
4	Hauraki District		1			
4	Marlborough District		1			
4	Timaru District		2			
4	Rangitikei District		1			
3	Buller District		0			
3	Waimate District		0			
3	Gore District		0			
2	Kaikoura District		0			
2	South Wairarapa District		0			
2	Central Otago District		1			
2	Central Hawkes Bay District		0			
0	Carterton District		0			
	Gulf Islands		0			
	Chatham Islands Council		0			

Restraints (seatbelt not worn)

2015 Register

PERSONAL RISK	Ranking	Standard Deviation	COLLECTIVE RISK	PERSONAL RISK	COLLECTIVE RISK	
DSI/100MVKT	Territorial Authority		5yr AVG DSI	DSI/100MVKT	5yr AVG DSI	
				Road Safety Regions		
3	Kawerau District		1	1	NORTHLAND	16
1	Wairoa District		2	0	AUCKLAND	44
1	Masterton District		2	1	WAIKATO	27
1	Kaipara District		3	1	BAY OF PLENTY	13
1	Far North District		9	1	TARANAKI	5
1	Opotiki District	1 STDEV	1	0	MANAWATU WANGANUI	10
1	Grey District		1	1	GISBORNE	3
1	Whakatane District		3	1	HAWKE'S BAY	10
1	Waitomo District		2	0	WELLINGTON	12
1	Tararua District		2	0	TASMAN NELSON MARLBOROUGH	5
1	Gisborne District		3	1	WEST COAST	3
1	Otorohanga District		1	0	CANTERBURY	17
1	South Waikato District		3	0	OTAGO	11
1	Stratford District	0.5 STDEV	1	0	SOUTHLAND	5
1	South Taranaki District		2			
1	Hastings District		5	0	NATIONAL	182
1	Buller District		1			
1	Ruapehu District		2			
1	Carterton District		1			
1	Urban West		6			
1	Marlborough District		3			
1	Central Hawkes Bay District		1			
1	Taupo District		4			
1	Whangarei District		5			
1	Waipa District		3			
1	Rotorua District		4			
1	Hauraki District		2			
1	Southland District	MEAN	4			
1	Waitaki District		2			
1	Upper Hutt City		1			
1	Hurunui District		2			
1	Dunedin City		4			
0	Rural South		4			
0	Thames-Coromandel District		2			
0	Matamata-Piako District		3			
0	Waimate District		1			
0	Clutha District		2			
0	Waikato District		6			
0	Rural North		4			
0	Central Otago District		2			
0	Rangitikei District		1			
0	Mackenzie District		1			
0	Horowhenua District		2			
0	Napier City		2			
0	Westland District		1			
0	Queenstown-Lakes District		2			
0	Timaru District		2			
0	Urban South		12			
0	Western Bay Of Plenty District		2			
0	Waimakariri District		2			
0	Urban Central		13			
0	Gore District		1			
0	Wellington City		4			
0	Hamilton City		3			
0	Tasman District		2			
0	Kapiti Coast District		1			
0	Palmerston North City		1			
0	Wanganui District		1			
0	Christchurch City		7			
0	Hutt City		2			
0	New Plymouth District		2			
0	Manawatu District		1			
0	Invercargill City		1			
0	Ashburton District		1			
0	Selwyn District		2			
0	Kaikoura District		0			
0	Tauranga City		2			
0	Urban North		4			
0	South Wairarapa District		0			
0	Porirua City		1			
0	Nelson City		1			
	Gulf Islands		1			
	Chatham Islands Council		0			