



# briefing notes - road safety issues

## Invercargill City

New Zealand Transport Agency has prepared this road safety issues report. It is based on reported crash data and trends for the 2004–2008 period.

The intent of the report is to highlight the key road safety issues and be a resource to identify possible ways to reduce the number of road deaths and injuries in Invercargill City.

In each new report one year's data is added to a five year block and the oldest dropped so it is unlikely that the core issues would change radically from report to report.

The issues chosen for this report are drawn from either the most common crash types, those that appear over-represented when Invercargill City is compared to similar local bodies or those with high social cost (high numbers of fatal and serious crashes mainly).

We have included a brief overview of crashes in the city.

We encourage Invercargill City to use its free access to the Ministry of Transport's Crash Analysis System (CAS) to delve deeper into the highlighted issues, and other road safety issues in the District. Also the NZTA Christchurch Performance Information team is available to provide further information if required. All data and maps in this note are from CAS.

### Major road safety issues

#### Invercargill City

Intersections

Young drivers

### 2008 road trauma

#### Casualties

#### Invercargill City

Deaths

3

Serious casualties

25

Minor casualties

242

#### Nationally

Speed

Alcohol

Failure to give way

Restraints

#### Crashes

#### Invercargill City

Fatal crashes

3

Serious injury crashes

22

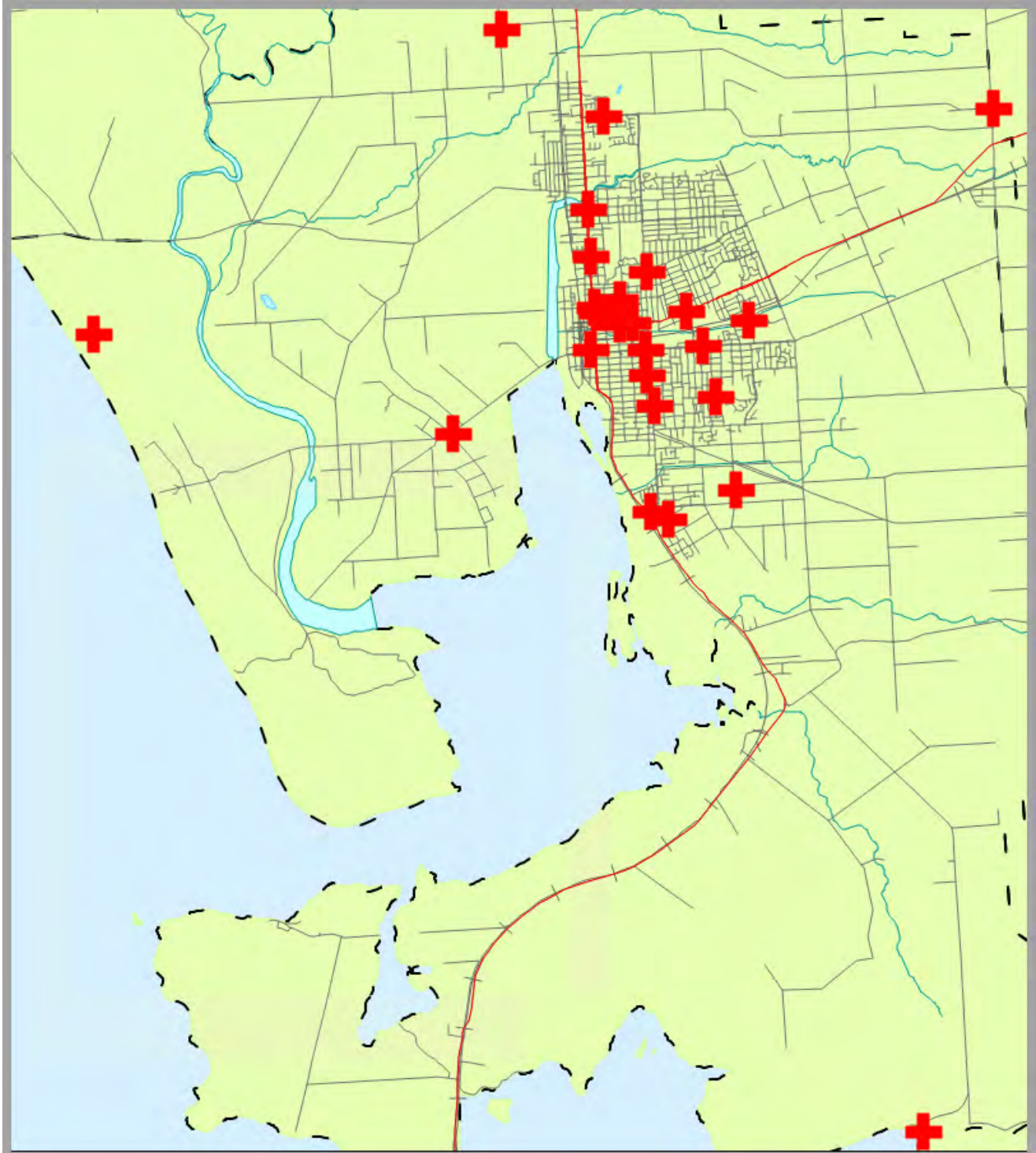
Minor injury crashes

168

Non-injury crashes

368

Fatal and Serious crashes  
Invercargill City  
2008



## Overview

In 2008 on local roads in Invercargill City there were 150 injury crashes and 277 non-injury crashes. In addition there were 43 injury crashes and 91 non-injury crashes on State Highways both as reported by the New Zealand Police.

The table below shows the number of injuries resulting from the 193 injury crashes by rural or urban areas (rural is defined as an area with a speed limit of 80km/h or more).

### Casualties by urban / rural 2008

	Fatalities	Serious injuries	Minor injuries	Total
Rural	0	7	20	27
Urban	3	18	222	243
Total	3	25	242	270

In 2008 in Invercargill City all fatalities, almost three quarters of serious casualties, and more than nine of every 10 minor injuries were as a result of crashes in the urban areas.

Over the last ten years 2006 was the year that had most injury crashes. The total number and the number of serious crashes have both dropped in each of the last two years.

### Crash trends in Invercargill City

Year	Fatal Crashes	Serious Crashes	Minor Crashes	Total Crashes
1999	2	14	55	71
2000	2	28	75	105
2001	5	33	127	165
2002	6	42	183	231
2003	2	50	157	209
2004	2	36	159	197
2005	0	47	164	211
2006	2	65	198	265
2007	4	40	165	209
2008	3	22	168	193

### Injury crashes 2004 to 2008

Crash type or contributory cause 2004 to 2008	Local road Percentage injury crashes	State Highway Percentage of injury crashes
Alcohol	9	7
Too fast	16	10
At bends	13	12
At intersections	58	58
Road factors	16	12
Young at fault drivers	41 % of at fault drivers	45 % of at fault drivers

### Vulnerable road users - casualties

Road user type	Local road Percentage of all casualties	State Highway Percentage of all casualties
Pedestrians	5	5
Cyclists	6	4
Motorcycles	5	4
<b>Total vulnerable</b>	16	13

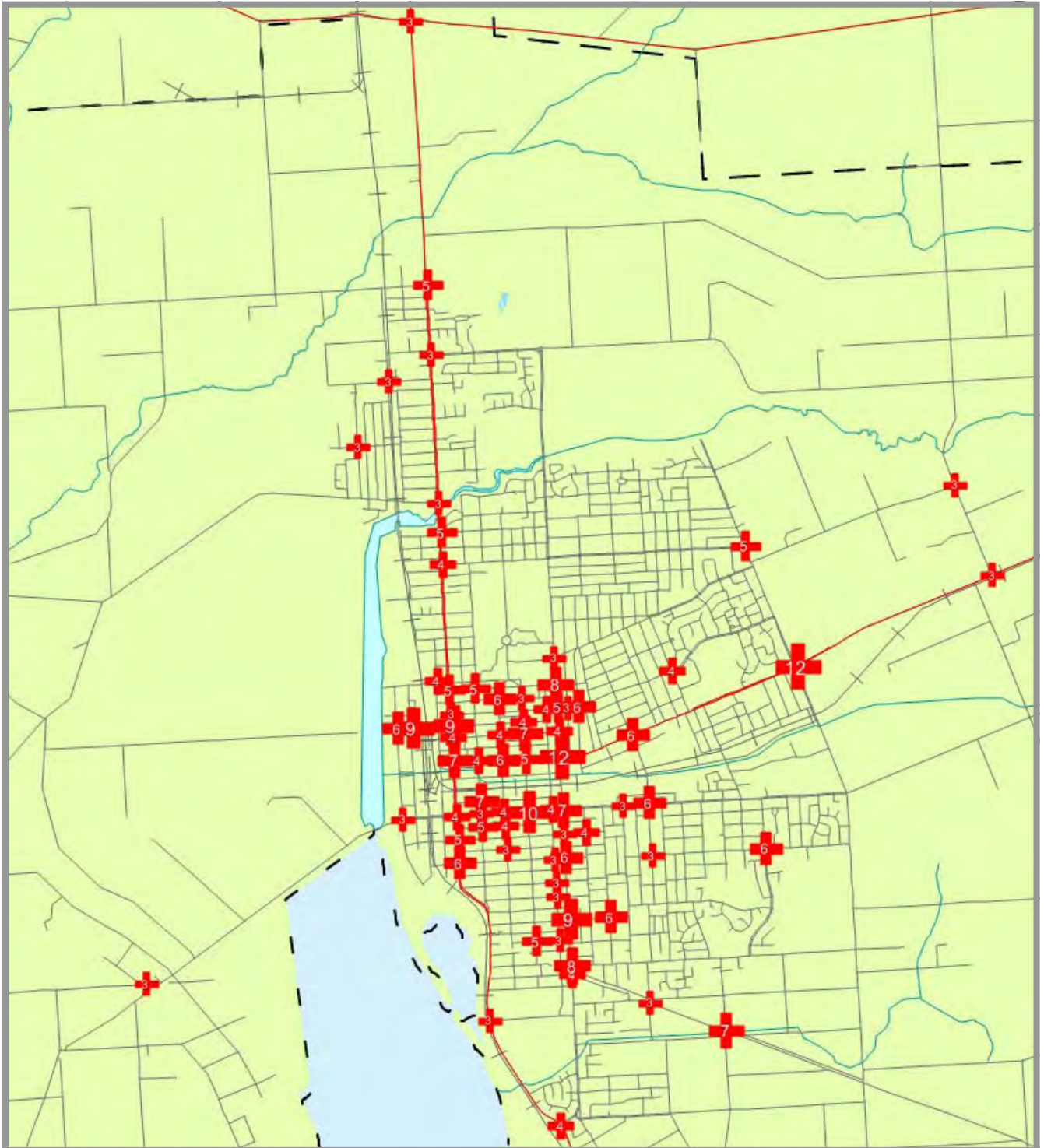
Further information about the 778 injury crashes 2004 to 2008 on local roads in Invercargill City :

- Worst month February, May
- Worst day Thursday
- 32 percent on wet or icy roads
- 26 percent at night
- 58 percent at intersections
- 310 roadside objects struck
- Social cost of crashes in 2008 \$28.6 m

Further information about 2004 to 2008 injury crashes on State Highways in Invercargill City :

- Worst month June
- Worst day Friday
- 31 percent on wet or icy roads
- 29 percent at night
- 58 percent at intersections
- 116 roadside objects struck
- Social cost of crashes in 2008 \$10.5 m

Intersections with three or more injury crashes  
Invercargill City  
2004 to 2008





## Intersections

During the five year period 2004 to 2008 within Invercargill City there were a total of 1430 crashes at intersections, 624 of these were injury crashes and 806 non-injury.

95 percent of these were in urban areas and eight people were killed, 132 received serious injuries and 785 received minor injuries.

Crashes at Intersections					
	2004	2005	2006	2007	2008
Injury crash	110	119	153	122	120
Non-injury crash	124	151	138	180	213
Total	234	270	291	302	333

Overall the number of crashes at intersections is increasing, however the reported number of injury crashes at intersections has dropped in the last two years from a high in 2006.

### Locations with the most injury crashes 2004 to 2008

Intersection name (Within a radius of 50m)	Injury crashes 2004 - 2008	Injury crashes 2008
SH 1 / Rockdale road	12	1
SH 1 Tay Street / Elles Road	12	1
Tweed Street / Ythan Street	10	1
Spey Street / Mersey Street	9	3
SH 6 / Spey Street	9	2
Elles Street / Marti Street	9	1

These intersections are listed regardless of any work that may have been done in recent years.

### Junction control Injury and non-injury crashes

Junction control	Traffic signals	Nil	Give Way	Stop
Number of crashes	281	92	918	139

The most common crash type at intersections is when a vehicle travelling straight through is struck by another vehicle travelling straight through from a side road.

The main causes contributing to crashes described in Police reports were:

- Failure to give way or stop
- Not checking properly

Junction type Injury and Non-injury crashes		
Junction Type	Rural	Urban
Roundabout	3	141
Tee (T)	46	427
Cross (X)	24	770
Other (includes driveways)	0	19

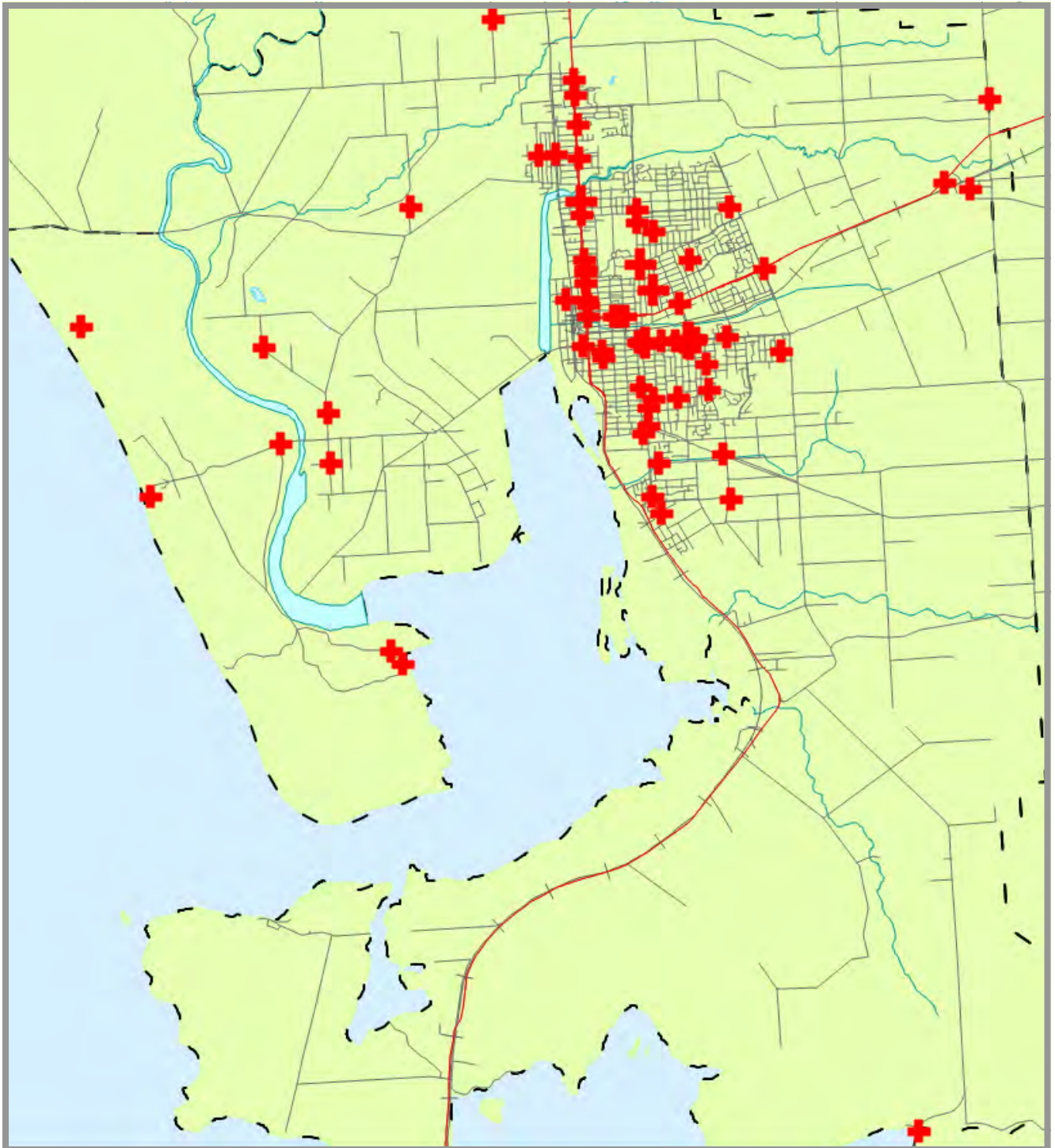
Further information about the 452 injury crashes at intersections on local roads in Invercargill City 2004 to 2008:

- 6 deaths, 98 serious injuries and 587 minor injuries
- 32 percent wet or icy roads
- 23 percent night time
- Worst month June
- Worst day of week Thursday
- Worst time 3 pm till 6 pm

Further information about the 172 injury crashes at intersections on State Highways in Invercargill City 2004 to 2008:

- 2 deaths, 34 serious injuries and 198 minor injuries
- 31 percent wet or icy roads
- 27 percent night time
- Worst month March
- Worst day of week Thursday
- Worst time 3 pm till 6 pm

Crashes involving drivers aged 15 - 24 years  
Invercargill City  
2004 - 2008



## Young drivers

Young drivers are those aged less than 25 years.

This analysis is based on injury crashes only as driver age is not recorded in non-injury crashes.

In Invercargill City between 2004 and 2008 49 percent of injury crashes involved young drivers. These 532 crashes resulted in 8 fatalities, 128 serious injuries and 706 minor injuries.

The total number of injury crashes involving young drivers reduced in 2007 and in 2008 from the high of 132 in 2006. There is no obvious trend in the annual number of crashes involving young drivers.

### Injury crashes involving young drivers

	Fatal	Serious	Minor	Total
2004	1	18	75	94
2005	0	27	93	120
2006	1	33	98	132
2007	3	19	88	110
2008	2	11	63	76
Total	7	108	417	532

Over half of the 604 young drivers in these crashes had a learner or restricted licence. Nearly two thirds of them were males and 59 percent were 15-19 year olds. Eight were under 15 years old.

Nearly all the young drivers were residents of Invercargill or the surrounding areas.

### Young drivers in injury crashes

Licence type	Female	Male	Total
Full	72	131	203
Learner	37	62	99
Restricted	100	136	236
Overseas	3	3	6
Never licensed	4	13	17
Disqualified	0	20	20
Other	3	20	23
Total	219	385	604

### Injury crashes involving young drivers

Crash type or contributory cause	% of injury crashes
Alcohol	9
Speed	23
Failed to stop/Give way	38
Poor handling	18
Poor observation	57
Lost control - straight	13
Lost control - bend	17
Rear end / obstruction	23
Crossing / turning	37

Further information about the 371 injury crashes involving young drivers on local roads in Invercargill City 2004 to 2008:

- 33 percent were single vehicle crashes
- 84 percent were on urban roads
- 54 percent at intersections
- 34 percent at night
- 33 percent in wet or icy conditions
- Worst month February
- Worst day of week Thursday
- Worst time 3 pm - 6 pm

Further information about the 161 injury crashes involving young drivers on State highways in Invercargill City 2004 to 2008:

- 19 percent were single vehicle crashes
- 84 percent were on urban roads
- 56 percent at intersections
- 35 percent at night
- 31 percent in wet or icy conditions
- Worst month February
- Worst day of week Friday,
- Worst time 3 pm - 6 pm

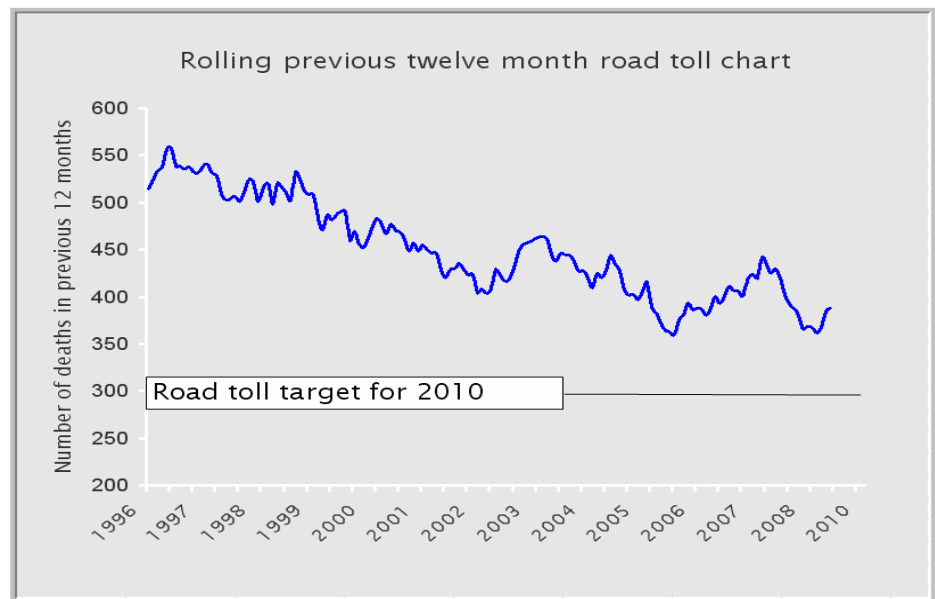
## The next ten years—moving beyond Road Safety 2010

In August this year the Ministry of Transport (MoT) will embark on a nationwide road safety consultation programme as it moves to formulate priorities for the next ten years.

The chart on the right illustrates the progress made during the life of the Road Safety 2010 strategy and while progress has been made it would seem unlikely that the target of 300 or fewer fatalities will be met.

Information will be published on the Ministry of Transport web site and we would encourage any person or group with an interest in road safety to watch the site carefully for developments.

Follow this link:



### Restraints

The Ministry of Transport conducts surveys of restraint use. Results are available for front, rear and child restraints although not all at a local authority level. The results of these surveys are available at the MoT website: <http://www.transport.govt.nz/research/safetybeltstatistics/>

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