

# briefing notes - road safety issues

## Auckland Region

Land Transport New Zealand has prepared this road safety issues report. It is based on reported crash data and trends for the 2002–2006 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 the Auckland Region.

This report is the eighth road safety issues report for the Auckland Region and all the material unless otherwise stated in this report applies to both local and Transit New Zealand roads.

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 or those with high social cost (high numbers of fatal and serious crashes mainly).

We have included a brief overview of crashes in the region for 2006.

We encourage local bodies and the Regional Council to use their free access to the Ministry of Transport's Crash Analysis System to delve deeper into the highlighted issues.

## Major road safety issues

| Auckland Region  |
|------------------|
| Intersections    |
| Bends            |
| Roadside hazards |
|                  |

#### Vulnerable road users

| Nationally          |
|---------------------|
| Speed               |
| Alcohol             |
| Failure to give way |
| Restraints          |

#### 2006 road trauma

| Casualties         | Auckland Region |
|--------------------|-----------------|
| Deaths             | 84              |
| Serious casualties | 616             |
| Minor casualties   | 3779            |

| Crashes                | Auckland Region |
|------------------------|-----------------|
| Fatal crashes          | 77              |
| Serious injury crashes | 496             |
| Minor injury crashes   | 2787            |
| Non-injury crashes     | 10620           |

## **Overview**

In 2006 on local roads in the Auckland Region there were 2661 injury crashes and 8210 non-injury crashes. In addition there were 699 injury crashes and 2410 non-injury crashes on Transit New Zealand (Transit NZ) roads as reported by the New Zealand Police. (Transit NZ manages the State Highway network including motorways).

The table below shows the number of injuries resulting from 2006 crashes by rural or urban areas for local roads (rural is defined as an area with a speed limit of 80km/h or more).

## Local road casualties 2006

|       | Fatalities | Serious<br>injuries | Minor<br>injuries | Total |
|-------|------------|---------------------|-------------------|-------|
| Rural | 16         | 98                  | 355               | 469   |
| Urban | 44         | 396                 | 2562              | 3002  |
| Total | 60         | 494                 | 2917              | 3471  |

While the number of minor crashes has been increasing in recent years, there is no clear trend emerging for the combined number of fatal and serious crashes. On local roads for the past five years there have been just over 60 fatalities annually except for 2005 when there were 53.

#### Injury crash trends



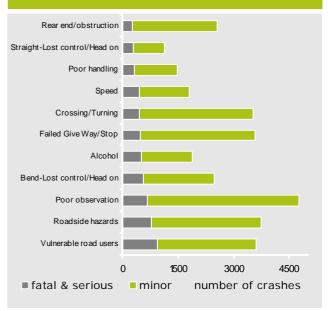
The following chart shows the main characteristics of local road crashes.

These are prioritised by the number of fatal and serious crashes, and the main issues discussed in this report are based on this.

Note that some of these are similar or overlap, for instance failure to give way or stop is a factor in most turning or crossing crashes.

Likewise most crashes involving poor observation are turning and crossing crashes, generally at intersections.

## Injury crash trends (local roads)



Further information about 2006 injury and noninjury crashes in the Auckland Region on local roads:

- Worst month March (981), best January (731)
- Worst day Friday (1781), best Sunday (1287)
- 23 percent on wet roads
- 33 percent at night
- 51 percent at intersections
- Social cost of crashes in 2006 \$732m
- 47 percent of at fault drivers held a full NZ licence (injury crashes)

Further information about 2006 injury and noninjury crashes in the Auckland Region on Transit NZ roads:

- Worst month May (310), best February (220)
- Worst day Friday (622), best Sunday (294)
- 28 percent wet road
- 31 percent night time
- 26 percent at intersections
- Social cost of crashes in 2006 \$239m
- 45 percent of at fault drivers held a full NZ licence (injury crashes)

## Overview continued

It has been observed nationally that there is a growing group of drivers who have not been exiting the graduated licence system and who are choosing to stay on restricted licences.

This is making it increasingly difficult to distinguish drivers who are truly inexperienced from those that should have moved to a full licence.

As a consequence it is more difficult to target educational material.

This is certainly true in the Auckland region with as few as 48 percent of at fault drivers in injury crashes being the holder of a full driving licence.

| At fault driver licence status                                |   |  |  |
|---|---|--|--|
| Driver licence status.<br>Auckland Region<br>2006 Local roads | Percentage of total 'at fault'<br>drivers (New Zealand 2006<br>value in brackets) |  |  |
| Full  | 48.0 (58.4) %   |  |  |
| Learner   | 15.6 (9.5) %  |  |  |
| Restricted  | 16.7 (17.6) %   |  |  |
| Never licenced  | 5.7 (2.2) %   |  |  |
| Disqualified  | 1.8 (1.7) %   |  |  |
| Overseas  | 2.9 (4.2) %   |  |  |
| Expired   | 0.9 (0.5) %   |  |  |
| Other / unknown   | 7.9 (5.6) %   |  |  |

| Road Safety Issues for roads in the region |       |                     |                       |       |               |         |       |
|--|-------|---------------------|-----------------------|-------|---------------|---------|-------|
| Local body                                 | Bends | Roadside<br>hazards | Vulnerable road users | Speed | Intersections | Alcohol | Night |
| Auckland Region                            | √     | ✓                   | √                     |       | ✓             |         |       |
| Rodney District                            | √     | ✓                   | ✓                     | ✓     |               |         |       |
| North Shore City                           | √     | ✓                   | ✓                     |       | ✓             |         |       |
| Waitakere City                             | √     | ✓                   | ✓                     |       | ✓             |         |       |
| Auckland City                              |       | ✓                   | ✓                     |       | ✓             | √       |       |
| Manukau City                               |       |                     | ✓                     | ✓     | ✓             | √       |       |
| Papakura District                          |       |                     |                       |       | ✓             | √       | √     |
| Franklin District                          | √     |                     |                       | √     |               | √       |       |

| Road Safety Issues for Transit New Zealand roads in the region |          |          |       |               |         |
|--|----------|----------|-------|---------------|---------|
|  | Bends    | Rear end | Speed | Intersections | Alcohol |
| Transit NZ Region 2  | √        |          | √     | √             | √       |
| Auckland Motorways   | <b>√</b> | √        | √     |               |         |

## **Intersections**

During the five year period 2002 to 2006 there were a total of 32,789 crashes at intersections within Auckland Region. Of these crashes, 92 percent occurred in urban areas and 87 percent were on local roads.

Intersections conflicts resulted in 6671 injury crashes and 26,118 non-injury crashes. In these 92 people died, 1063 received serious injuries and 7615 received minor injuries.

#### Crashes at Intersections

|                         | 2002 | 2003 | 2004 | 2005 | 2006 |
|-------------------------|------|------|------|------|------|
| Injury<br>crash         | 1259 | 1371 | 1307 | 1298 | 1436 |
| Non-<br>injury<br>crash | 6119 | 5581 | 4852 | 4737 | 4829 |
| Total                   | 7378 | 6952 | 6159 | 6035 | 6265 |

#### Locations with the most crashes

| Intersection name               | Total<br>crashes<br>2002 -<br>2006 | Injury<br>crashes<br>2002-<br>2006 | Total<br>2006 |
|---------------------------------|------------------------------------|------------------------------------|---------------|
| Ti Rakau / Te<br>Irirangi Drive | 94                                 | 12                                 | 20            |
| SH 20 / Gt South                | 93                                 | 6                                  | 21            |
| Queen /<br>Karangahape          | 83                                 | 14                                 | 13            |
| Remuera / Ladies<br>Mile        | 81                                 | 10                                 | 8             |
| Queen / Victoria                | 80                                 | 10                                 | 7             |

#### Junction type Injury and Non-injury crashes

| Junction Type | Rural | Urban  |
|---------------|-------|--------|
| Roundabout    | 76    | 2915   |
| Tee           | 841   | 16,615 |
| Cross (X)     | 327   | 7190   |
| Υ             | 1071  | 917    |
| Other         | 219   | 2559   |

The most common crash was one in which a vehicle turning right from the side road at an urban 'T' junction pulled out in front of a car approaching from the right on the main road.

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

- Failure to stop or give way
- Not checking properly
- · General errors of judgement

Intersections can present drivers with one of their biggest driving challenges, particularly less experienced drivers.

#### Driver licence status 2006

| Driver Licence status,<br>intersection related<br>injury crashes, at fault<br>drivers in Auckland<br>Region | Percentage of total at fault<br>drivers in intersection re-<br>lated crashes (New<br>Zealand value in brackets) |
|---|---|
| Full  | 56.5 (60.9) %   |
| Learner   | 11.2 (9.4) %  |
| Restricted  | 14.8 (14.8) %   |
| Never licenced  | 3.3 (2.5) %   |
| Disqualified  | 1.3 (1.6) %   |
| Overseas  | 4.2 (3.7) %   |
| Expired   | 0.8 (0.8) %   |
| Other / unknown   | 8.0 (6.3) %   |

Further information about injury crashes at intersections on local roads in the Auckland Region 2002 to 2006:

- 76 deaths, 909 serious injuries
- 13 percent alcohol involved
- 97 percent urban
- 25 percent wet roads
- 32 percent night time
- Worst month May, best January
- Worst day of week Friday, best Sunday

Further information about injury crashes at intersections on Transit NZ roads in the Auckland Region 2002 to 2006:

- 16 deaths, 154 serious injuries
- 57 percent urban
- 12 percent alcohol involved
- 26 percent wet roads
- 31 percent night time
- Worst month May, best January
- Worst day of week Friday, best Sunday

## Crashes at bends

Between 2002 and 2006 19 percent of all injury crashes in Auckland Region occurred at bends. These crashes resulted in 154 fatalities, 757 serious injuries and 3355 minor injuries.

Overall crash numbers have been increasing for the past five years, mostly due to an increase in minor crashes. Fatal and serious crash numbers decreased between 2002 and 2005, but rose again in 2006.

## Crashes at bends 2002 to 2006

| Crash<br>year | Fatal<br>crashes | Serious<br>crashes | Minor<br>crashes | Total |
|---------------|------------------|--------------------|------------------|-------|
| 2002          | 29               | 126                | 384              | 539   |
| 2003          | 28               | 117                | 427              | 572   |
| 2004          | 26               | 118                | 452              | 596   |
| 2005          | 23               | 99                 | 482              | 604   |
| 2006          | 31               | 112                | 522              | 665   |
| Total         | 137              | 572                | 2267             | 2976  |

Most crashes at bends involved a driver losing control of their vehicle and either running off the road or colliding with another vehicle.

After drivers lose control their vehicles often crash into roadside hazards such as ditches, banks, poles or trees. Hitting these objects can result in a relatively minor off-road event turning into something far more serious.

The three most common roadside hazards struck in injury crashes at bends in Auckland Region were fences (490), posts or poles (480) and trees (445) from a total of 3135 objects struck.

## Main characteristics of injury crashes at bends

| Crash characteristic               | Percentage of crashes |  |  |  |  |  |
|------------------------------------|-----------------------|--|--|--|--|--|
| Single vehicle                     | 71 %                  |  |  |  |  |  |
| Alcohol                            | 30 %                  |  |  |  |  |  |
| Excessive speed for the conditions | 44 %                  |  |  |  |  |  |
| Road factors                       | 16 %                  |  |  |  |  |  |
| Poor handling                      | 37 %                  |  |  |  |  |  |
| Urban road                         | 62 %                  |  |  |  |  |  |
| Wet road                           | 40 %                  |  |  |  |  |  |
| Night time                         | 50 %                  |  |  |  |  |  |

## At fault driver licence status 2006

| Driver Licence status,<br>bend related injury<br>crashes, at fault drivers<br>in Auckland Region | Percentage of total at fault<br>drivers in bend related<br>crashes (New Zealand<br>value in brackets) |  |  |
|--|---|--|--|
| Full   | 46.1 (51.1) %   |  |  |
| Learner  | 13.3 (10.7) %   |  |  |
| Restricted   | 19.4 (17.9) %   |  |  |
| Never licenced   | 5.4 (4.1) %   |  |  |
| Disqualified   | 2.5 (2.8) %   |  |  |
| Overseas   | 3.6 (5.6) %   |  |  |
| Expired  | 0.9 (0.9) %   |  |  |
| Other / unknown  | 8.8 (6.8) %   |  |  |

Further information about injury crashes at bends on local roads in the Auckland Region 2002 to 2006:

- 103 deaths, 609 serious injuries and 2835 minor injuries
- 70 percent of at fault drivers were male
- Most common age group 15-19 years
- 31 percent involved alcohol
- Worst month December (257), best September (172)
- Worst day of week Saturday (473), best Tuesday (257)

Further information about injury crashes at bends on Transit NZ roads in the Auckland Region 2002 to 2006:

- 51 deaths, 148 serious injuries and 520 minor injuries
- 68 percent of at fault drivers were male
- Most common age groups 15-19 years
- 29 percent involved alcohol
- Worst month December (52), best May (27)
- Worst day of week Sunday (111), best Wednesday (40)

## Roadside hazards

A safe road environment incorporates numerous design principles, appropriate geometric design standards, good delineation under all conditions, adequate surface skid resistance and a roadside free of unforgiving hazards. It should also serve the safety needs of all vehicles and road users.

Roadside hazards normally contribute to the overall crash outcome by increasing injury severity but can in themselves be a contributory factor in a crash. For example occupants in an errant vehicle striking a large tree close to the road edge are likely to sustain worse injuries than if the tree was not present.

If the same tree had low branches and was located at an intersection it could also contribute to a lack of visibility.

Nationally, road side objects (small and large) are struck in almost 40 percent of all injury crashes.

In the Auckland Region roadside hazards were a factor in 31 percent of injury crashes between 2002 and 2006.

| Roadside hazard injury crashes |     |     |     |     |      |  |
|--------------------------------|-----|-----|-----|-----|------|--|
| 2002 2003 2004 2005 2006       |     |     |     |     |      |  |
| Urban                          | 564 | 599 | 648 | 615 | 734  |  |
| Rural                          | 284 | 336 | 316 | 335 | 355  |  |
| Total                          | 848 | 935 | 964 | 950 | 1100 |  |

Further information about roadside hazard related crashes on local roads in the Auckland Region 2002 to 2006:

- 150 deaths, 802 serious injuries and 3970 minor injuries
- Most common crash type: loss of control at bend (1771)
- 30 percent at intersections
- 51 percent night time
- 31 percent wet road
- Worst month July, best March

Further information about roadside hazard related crashes on Transit NZ roads in the Auckland Region 2002 to 2006:

- 48 deaths, 245 serious injuries and 1173 minor injuries
- Most common crash type: loss of control at bend (371)
- 20 percent at intersections
- 48 percent night time
- 36 percent wet road
- Worst month December, best January

The following table shows the number of various road side hazards involved in injury crashes for the Auckland Region during the period 2002-2006.

Note that the same hazard can be struck more than once in the same crash and that each crash can result in many different hazards being struck.

As a result the number of hazards shown in this table will be greater than the number of crashes.

#### Types of hazard struck Animals 0 Bridge ends 49 9 Cliff or bank 364 122 Debris on road 6 13 Ditch 261 83 Fence 759 90 Guard rail 126 518 House or building 172 14 212 25 Kerb Object thrown at or dropped on vehicle Over bank 121 31 Parked vehicle 943 34 Phone box etc 5 86 Post or pole 805 142 Road works Slip or flood Stray animal 14 9 Traffic island 168 52 Traffic sign 184 69 Train 4 0 Tree 644 121 Vehicle attended 237 29 (e.g. broken down) Water or river 25

## **Vulnerable road users**

(Pedestrians, Cyclists and Motorcyclists)

Vulnerable road users are those who have very little physical protection in the event of a crash and are therefore susceptible to severe injuries.

In February 2005, the Government launched 'Getting there – on foot, by cycle' its strategy to advance walking and cycling in New Zealand transport. This strategy aims to improve the environment for walking and cycling and at the same time improve safety, as well as increase the choices available for walking and cycling as day-to-day transport options.

Land Transport NZ expects local authorities to take a proactive approach to this subject. This should include the development of a walking and cycling strategy and submitting appropriate projects for funding to progress that strategy.

It is vitally important to recognise that promotion alone of walking and cycling will not be effective at increasing mode share unless these activities can be made safer.

#### **Pedestrians**

Although pedestrian injuries do not feature highly in the overall road injury picture in the Auckland Region, representing only 10 percent of all injuries, they make up 17 percent of fatal and serious injuries.

| Pedestrian injuries |      |      |      |      |      |  |
|---------------------|------|------|------|------|------|--|
|                     | 2002 | 2003 | 2004 | 2005 | 2006 |  |
| Fatal               | 14   | 15   | 14   | 8    | 12   |  |
| Serious             | 116  | 95   | 82   | 77   | 96   |  |
| Minor               | 293  | 321  | 286  | 259  | 269  |  |
| Total               | 423  | 431  | 382  | 344  | 377  |  |

Most (97 percent) pedestrian crashes occur on urban roads, the majority of these away from intersections (mid-block) and during daylight hours. There is a strong crash bias toward the afternoon.

Young people under the age of 20 make up a high proportion of injuries in pedestrian crashes, making them the most at-risk group.

This may be because they walk more than other age groups. However many of them may not be mature enough to make the correct road crossing decisions. For example young children have difficulty in judging the speed and distance of approaching vehicles.

Children are also easily distracted and unable to focus on multiple events at a time, so when they want to cross a road their attention can be easily distracted by say, a friend shouting out from across the street, a dog coming towards them or a noisy car passing by.

Road designers and motorists alike need to understand that children do not think like "mini adults" when they are walking and playing near the road. The road environment needs to be made as safe as possible to mitigate against the unpredictable actions that children take.

The recent decision by Police to enforce a lower speed tolerance around schools is a strong step in creating a safer lower speed environment for young pedestrians.

Pedestrian crashes are concentrated on arterial and collector roads. (A map with regional indicative fatal and serious crash locations is at the end of the vulnerable road user section).

## Locations with the most pedestrian crashes

| Location                        | Number of pedestrian injury crashes |
|---------------------------------|-------------------------------------|
| Queen St Int. City Rd           | 8                                   |
| Queen St Int. Karangahape Rd    | 6                                   |
| Albert St Int. Victoria St West | 6                                   |
| Queen St Int. Turner St         | 6                                   |
| Symonds St Int. Karangahape Rd  | 6                                   |

Further information about the 1825 pedestrian related injury crashes on local roads in the Auckland Region 2002 to 2006:

- The most common type of crash involved a pedestrian crossing the road being hit by a vehicle approaching from the right (43 percent).
- Worst month October (177) best January (106)
- Worst day of week Thursday (320) best Sunday (161)

Further information about pedestrian related injury crashes on Transit NZ roads in the Auckland Region 2002 to 2006:

 Number of pedestrian crashes 62 (3 percent)

## Vulnerable road users continued

## **Cyclists**

Cyclist injuries do not feature highly in the overall road injury picture in the Auckland Region, representing only five percent of all injuries and six percent of fatal and serious injuries.

| Cyclist injuries |      |      |      |      |      |  |
|------------------|------|------|------|------|------|--|
|                  | 2002 | 2003 | 2004 | 2005 | 2006 |  |
| Fatal            | 3    | 1    | 0    | 1    | 2    |  |
| Serious          | 38   | 32   | 40   | 33   | 32   |  |
| Minor            | 163  | 147  | 139  | 187  | 163  |  |
| Total            | 204  | 180  | 179  | 221  | 197  |  |

Most (97 percent) cycling crashes occurred on urban roads, the majority of these at intersections and during daylight hours.

Last year (2006) more cycles than cars were imported into New Zealand. In recent years the increase in cycle numbers on many roads in New Zealand has become guite noticeable.

Cyclist injuries are spread fairly evenly across age groups between 5 to 50 years old, with a peak between 10 to 14 years old.

Further information about the 921 cycling related injury crashes on local roads in the Auckland Region (2002 to 2006):

- The most common type of crash was a crossing or turning movement, followed by rear end collision.
- 56 percent at intersections
- 16 percent at night
- Worst month March, best December
- Worst day of the week Tuesday (164) best Sunday (84 each)
- Number of crashes involving riding on the footpath 81
- 79 percent of cyclists injured were male

Further information about 39 cycling related injury crashes on Transit NZ roads in the Auckland Region (2002 to 2006):

- 62 percent at intersections
- 31 percent at night

## **Motorcyclists**

Although like cyclists motorcyclist injuries do not feature highly in the overall road injury picture in Auckland Region, representing only five percent of all injuries, they make up 11 percent of fatal and serious injuries.

Nationally motorcycling fatalities dropped from a high of 20 percent of all fatalities in 1988 to just six percent in 2003.

Since then there has been a significant increase in motorcycle registrations and this has reversed the downward trend. In 2006 motorcyclists accounted for 9.5 percent of road fatalities in New Zealand.

| Motorcyclist injuries |      |      |      |      |      |
|-----------------------|------|------|------|------|------|
|                       | 2002 | 2003 | 2004 | 2005 | 2006 |
| Fatal                 | 7    | 8    | 6    | 12   | 7    |
| Serious               | 62   | 57   | 51   | 53   | 91   |
| Minor                 | 119  | 135  | 128  | 179  | 190  |
| Total                 | 188  | 200  | 185  | 244  | 288  |

Most (79 percent) motorcycle crashes occur on urban roads, these are split fairly evenly between intersections and mid-block locations and occur mostly during daylight hours.

Motorcycling injuries are spread fairly evenly between age groups 15 to 45 years old, with a peak in the 20 to 24 age group.

Further information about the 877 motorcycling related injury crashes on local roads in the Auckland Region 2002 to 2006:

- The most common crash type was crossing or turning followed by rear end collision, loss of control and overtaking
- 52 percent at intersections
- 27 percent at night
- 16 percent in the wet
- Worst month May (94) best January (54)
- Worst day of week Friday (166) best Monday (99)
- 86 percent of motorcyclists injured were male

## Motorcyclists continued

Further information about the 165 motorcycling related injury crashes on Transit NZ roads in the Auckland Region 2002 to 2006:

- The most common crash type was rearend collision followed by overtaking, crossing or turning and loss of control
- 35 percent at intersections
- 24 percent at night
- 22 percent in the wet
- Worst month February (23), best June/ September (8)
- Worst day of week Friday (32), best Wednesday (17)
- 89 percent of motorcyclists injured were male

## Visibility of vulnerable road users

Between 2002 and 2006 there were 12 fatalities and 80 other injuries in crashes involving pedestrians and cyclists where the Police noted "wearing dark clothing" as a contributory crash cause.

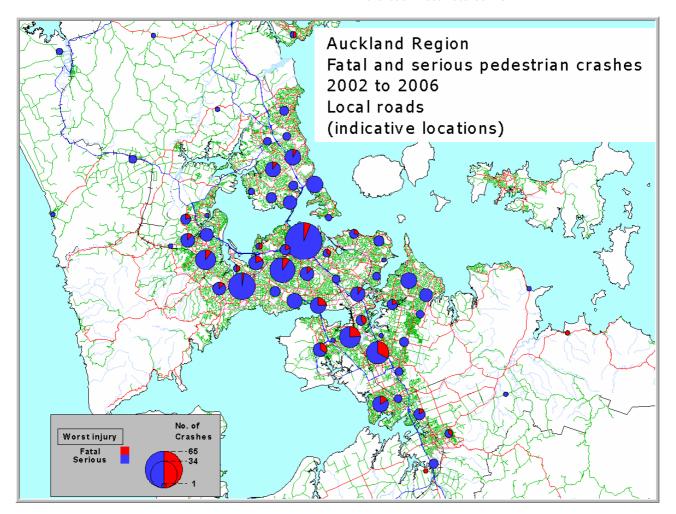
While most of these crashes occur at night cyclists and pedestrians need to better consider their own safety when selecting riding and walking apparel especially at night, dusk and dawn.

There are a growing number of mainly (but not exclusively) training cyclists using our rural roads and many seem unaware particularly at dusk and dawn they are hard to see in dark coloured clothing, as compared to the lime-yellow apparel now available.

State Highway 17 for example, is increasingly being used by cyclists even though the route has inconsistent shoulder widths and in places lips caused by successive seal overlays.

There have been eight injury crashes involving cyclists on this route between 2004 and 2006.

A number of these were at dawn or dusk and many at pinch points where brighter clothing may have alerted motorists earlier.



## **National issues**

This section contains some brief information on the key national road safety issues as measured in the Auckland region. They may have been covered elsewhere in this document or not be a specific issue.

#### **Speed**

"Too fast" was recorded in 15 percent of injury crashes in the region in the last five years resulting in 180 deaths and 3286 injures. Speed as a factor in crashes is not reducing in the region.

Sixty-nine percent of speed-related crashes were loss of control crashes.

Alcohol and poor handling were the other driver factors often associated with speed.

At fault male drivers aged less than 30 years were the most highly represented age in speed-related crashes.

#### **Alcohol**

Alcohol was involved in 15 percent of injury crashes in the region in the last five years resulting in 152 deaths and 3194 other injuries. The number of injury crashes involving alcohol is not decreasing.

Seventy-seven percent of alcohol crashes were in urban areas of the city.

Speed and poor handing were the other factors often associated with alcohol.

#### Failure to give way

Failure to give way or stop was reported in 26 percent of all reported injury crashes for the last five years, resulting in 40 deaths and 5344 other injuries. Ninety-two percent of crashes were in urban parts of the city.

Fifty-nine percent of at fault drivers were male.

#### **Restraints**

The Ministry of Transport conducts surveys of restraint use. The results of these surveys are at a regional level, and may not be fully appropriate to a Local Authority. The results are obtainable from the Ministry of Transport website.

http://www.transport.govt.nz/belts-index/

### **Contacts**

#### **Land Transport New Zealand**

Partnership Manager (Northern) Peter Kippenberger

Manager Performance Information (Northern)
Chris Hewitt

Managers Programmes Brian McSwigan (Transit) Geoffrey Mansell (ARTA)

Private Bag 106 602 Auckland

Phone 09 969 9800

www.landtransport.govt.nz

#### **Auckland Regional Transport Authority**

Road Safety Co-ordinator Andrew Bell Private Bag 92012 Auckland

Phone 09 366 4422

www.roadsafeauckland.org.nz

#### **New Zealand Police**

Superintendent John Kelly Road Policing Manager New Zealand Police Waitematä Private Bag 33 1046 North Shore City

Phone DDI: (09) 488-9756

#### **Transit New Zealand**

Regional Manager Peter Spies PO Box 1459 Auckland