

road safety issues

July 2002

The Land Transport Safety Authority (LTSA) has prepared this Road Safety Issues Report. It is based on reported crash data and trends for the 1997–2001 period. The intent of the report is to highlight the key road safety issues and to identify possible ways to reduce the number of road deaths and injuries in the South Waikato district.

It happens to all drivers – their attention is diverted or they are distracted by something when driving, or they simply do not see another party on the road until it is too late. But just how much are these lapses in concentration costing us? A lot, according to this year’s road safety statistics from the Waikato region. Lapses in concentration (we call it poor observation) are having more and more serious injury and fatal consequences in the region.

While speed and drink-driving remain serious road safety issues, we must also make drivers aware that lack of concentration on the road is having an increasingly high cost.

Major road safety issues:

South Waikato district

Speeding

Drink-driving

Road factors

Restraints and helmets

Nationally

Speeding

Drink-driving

Failure to give way

Restraints



2001 road toll for South Waikato district



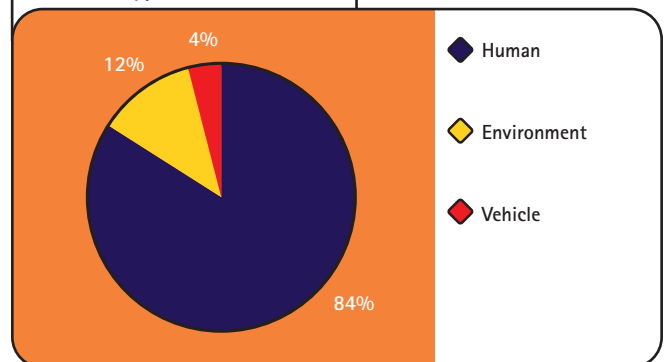
| | |
|--------------------|----|
| Deaths | 12 |
| Serious casualties | 38 |
| Minor casualties | 64 |



| | |
|------------------------|-----|
| Fatal crashes | 10 |
| Serious injury crashes | 22 |
| Minor injury crashes | 33 |
| Non-injury crashes | 155 |

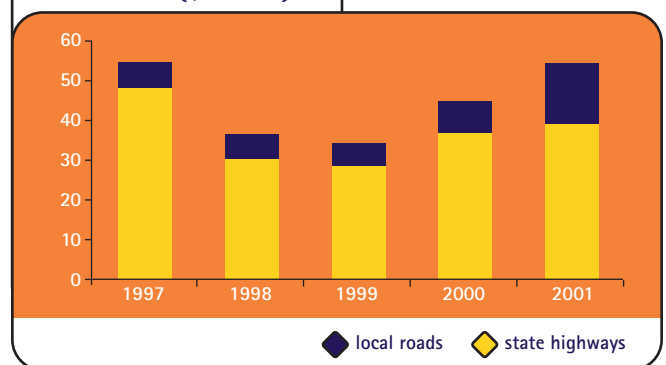
Regional crash causes 1997–2001

User type 1997–2001



Estimated social cost of crashes*

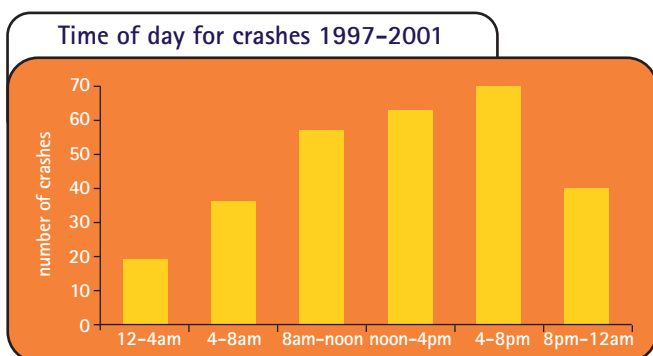
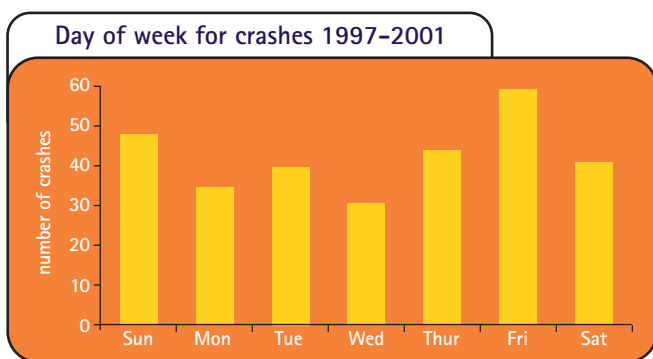
Social cost (\$ million)



* The estimated social cost includes loss of life or life quality (estimated by the amount New Zealanders are prepared to pay to reduce their risk of fatal or non-fatal injury), loss of output due to injuries, medical and rehabilitation costs, legal and court costs, and property damage. These costs are expressed at June 2001 prices.

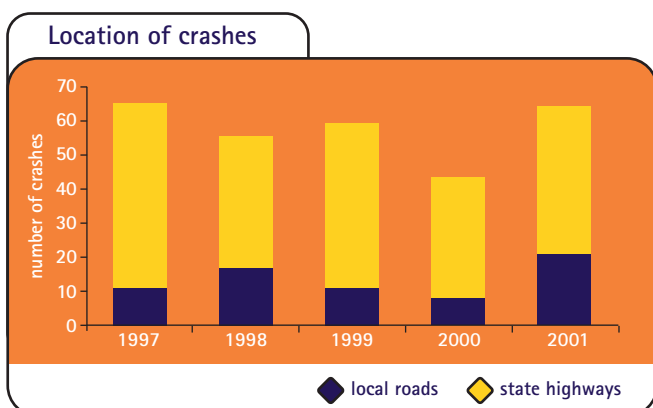
When crashes occurred

Crashes resulting in injury can occur at any time, but in the South Waikato district between 1997 and 2001, Friday and late afternoon (4–8pm) were the worst periods.



Where crashes occurred

During the 1997–2001 period approximately 88 percent of fatal crashes (where one or more people were killed) and 77 percent of injury crashes occurred on rural roads. In rural areas there was a greater chance of a fatal accident occurring than in an urban area, due to the higher speed limits.



Who was involved in crashes

Between 1997 and 2001, 523 people were injured on the South Waikato district roads. Drivers accounted for 43 percent of persons injured and passengers 40 percent.

Other road user groups represented among those injured in this period included motorcyclists (five percent), cyclists (two percent) and pedestrians (four percent).

Licence status of all drivers involved in injury crashes in 2001

| Licence status | Urban crashes | Rural crashes |
|---------------------------|---------------|---------------|
| Full licence | 64% | 67% |
| Learner or restricted | 8% | 15% |
| No or wrong licence | 12% | 8% |
| Forbidden or disqualified | 8% | 2% |
| Overseas | – | 4% |
| Unknown | 8% | 4% |

80 Speeding

Speeding includes not only exceeding the speed limit, but also driving too fast for the condition of the road. Driving at 100 km/h in a light rain requires the same stopping distance as driving at 120km/h on a sunny day.

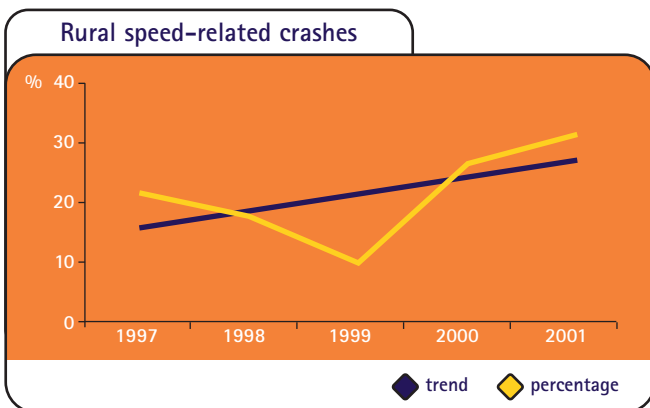
Nationally, speeding was the highest contributing factor in crashes in 2001 and resulted in a total social cost of \$770 million.

In the South Waikato district, speed was a factor in 25 percent of injury crashes in 2001 – a decrease from 2000 – and decreasing in line with the national trend.

There were 59 speed-related injury crashes reported in the last five years.

Speed was predominately a rural issue in the South Waikato district in 2001 and was a factor in 32 percent of the injury crashes occurring on roads with a speed limit greater than 70km/h. Most roads in the Waikato were built for 80km/h speeds and cannot be driven safely at the open road maximum of 100km/h.

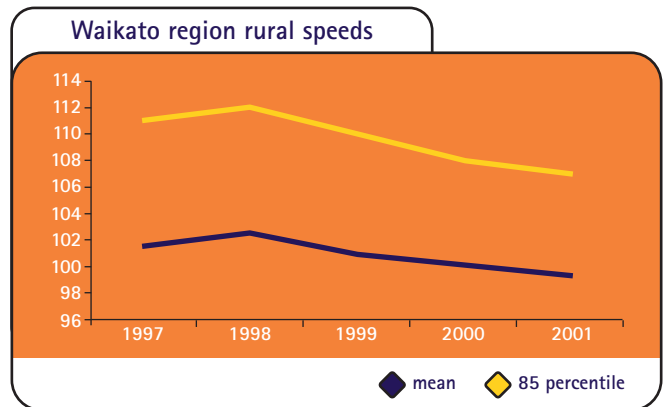
Speed has increased as a factor on rural roads over the last three years, with the number of injury crashes rising from 10 in 2000 to 15 in 2001.



Responses from the Waikato region to the 2001 Public Attitudes Survey indicated:

- 47 percent of drivers said that they enjoyed driving fast on the open road
- 19 percent of drivers agreed that there was little chance of an accident when speeding if they were careful
- 43 percent of drivers thought that the risk of being caught speeding was small
- 77 percent thought that enforcing the speed limit helped to lower the road toll.

Speed surveys are undertaken annually throughout the country by LTSA and it is pleasing to see that nationally both urban and rural speeds are decreasing. The following graph illustrates the results of surveys undertaken in the Waikato region over the last five years:



The initiatives

- Thirty-one New Zealand Police are dedicated to state highway patrol duties within the Bay of Plenty Police district. Their task is road safety enforcement, focusing on speed, alcohol, restraints and accident-promoting offences.
- A region-wide review of speed camera locations by the New Zealand Police, LTSA, road controlling authorities (RCAs) and other key stakeholders was undertaken this year with several existing sites being removed along with new sites being identified. Regular reviews of speed camera sites will ensure that their deployment continues to be targeted toward risk.
- Regular reviews of speed limits by RCAs will ensure that they correctly reflect the level of development and the expectations of the average road user.
- Thresholds designed to encourage motorists to slow down upon entering urban areas are being used more throughout the region. Thresholds may include signs, planting, lighting, traffic islands and road marking.
- Knowledge-based road policing will ensure that police activities are targeted to risk locations.
- The three-year region-wide open road project is now in its third and final year. Campaigns run to date as part of this project were designed to focus on speed on Waikato roads notorious for their history of speed-related crashes.



Drink-driving

Alcohol affects the way people drive. Studies repeatedly show that the risk of crashing increases as a driver's blood alcohol level increases. Contrary to popular opinion, people with a high blood alcohol level are more likely to be injured or killed in a crash than those who have not consumed alcohol.

For every 100 drink-drivers or riders killed in road crashes, 59 of their passengers and 36 other road users die with them.

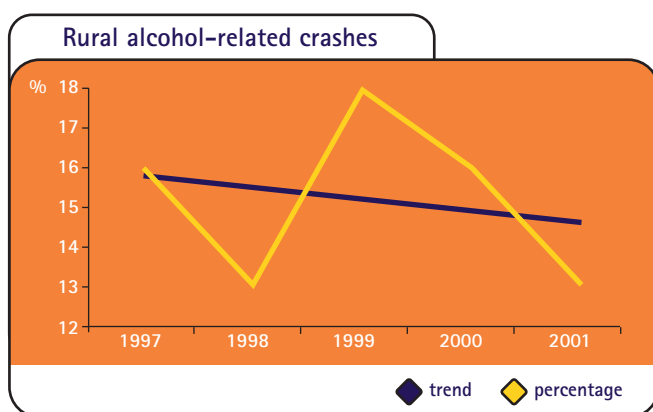
Nationally, alcohol was the second highest contributing factor in road crashes during 2001 and resulted in a total social cost of \$681 million. In past years, alcohol contributed to over 20 percent of all reported injury crashes and over 40 percent of fatal crashes. For the 12 months to December 2001, alcohol-affected drivers contributed to 20 percent of all fatal crashes and 13 percent of all injury crashes.

In the South Waikato district, alcohol was a factor in 17 percent of injury crashes in 2001 – a decrease from 2000 – and decreasing in line with the national trend.

There were 49 alcohol-related injury crashes reported in the last five years.

Alcohol was predominately a rural issue in the South Waikato district in 2001 and was a factor in 13 percent of the injury crashes occurring on roads with a speed limit greater than 70km/h.

Alcohol has decreased as a factor on rural roads over the last five years, with the number of injury crashes remaining steady at six in both 2000 and 2001.



Responses from the Waikato region to the 2001 Public Attitudes Survey indicated:

- 10 percent of drivers agreed that there was not much chance of an accident when driving after drinking if they were careful
- 39 percent of drivers believed that the overall risk of being caught drinking and driving was small
- 76 percent believed compulsory breath testing helped to lower the road toll.

The initiatives

- Knowledge-based road policing will ensure that police activities are targeted to risk locations.
- Last drink surveys completed by the New Zealand Police at the time of processing drink-drivers enable assessments to be made by liquor licensing assessment groups to identify at-risk premises.
- The Waikato Drink Drug Drive Group continues to provide networking opportunities to enhance the level of understanding of drink/drug driving and associated issues within the region.
- Roads need to be clear and self-explanatory, to reduce the scope for road user error. All road controlling authorities can help achieve this by ensuring that road marking and signage on their road network are maintained to appropriate standards and ensuring that motorists receive no surprises in their journeys.
- The British government has established a long-term publicity strategy. Their THINK! campaign is about people using the roads safely, whether driving, walking, cycling or using public transport. Unlike previous campaigns, which concentrated on a particular road safety issue, THINK! is a year-round road safety banner for all campaigns, aiming to create a greater public awareness of all road safety issues. Further information can be found on the website: www.think.detr.gov.uk.



Road factors

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 serve the safety needs of all vehicles and road users.

Road factors as a contributing factor in crashes include those conditions that affect the way a driver reacts to the driving conditions, such as;

- slippery road surface
- obstructions on the road such as slips
- visibility being limited
- signs, signals and/or road marking being damaged or in poor condition.

Nationally, road factors were a contributing factor in 12 percent of injury crashes in the 1997–2001 period, with slippery road surfaces and limited visibility being the two key conditions.

In the South Waikato district, road factors featured in 15 percent of injury crashes in 2001 – a decrease from 2000 – and decreasing against the national trend.

There were 47 injury crashes relating to road factors reported in the last five years.

Road factors were predominately a rural issue in the South Waikato district in 2001 and were a factor in 15 percent of the injury crashes occurring on roads with a speed limit greater than 70km/h.

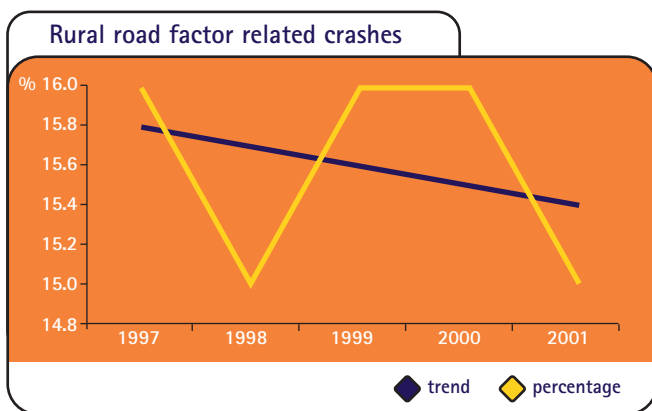
Road factors have remained steady as an issue on rural roads over the last five years, with the number of injury crashes rising from six in 2000 to seven in 2001.

The road factors involved in crashes in the South Waikato district over the last five years are:

| | 1997–2001 |
|-------------------------------------|-----------|
| Slippery road | 31 |
| Road surface in poor condition | 5 |
| Road obstructed | 1 |
| Visibility limited | 11 |
| Signs and signals in poor condition | 2 |
| Street lighting in poor condition | 1 |

The initiatives

- Roading countermeasures can reduce or mitigate crashes by addressing both crash prevention (the safe construction, maintenance and management of roads) and crash reduction (the most effective and cost-beneficial techniques being applied to improving safety outcomes). Road controlling authorities (RCAs) can ensure crashes are reduced or mitigated on their road network most effectively by employing a balance of remedial (crash investigation studies) and preventive (road safety audit) programmes.
- The LTSA undertakes annual surveys of RCAs to monitor compliance with road and traffic standards and guidelines. The survey this year has focused on school patrol crossings.
- Slippery road surfaces are the most common road factor in crashes. Road controlling authorities should be utilising crash data to identify locations where resealing may be warranted due to low levels of skid resistance in the current surfacing.

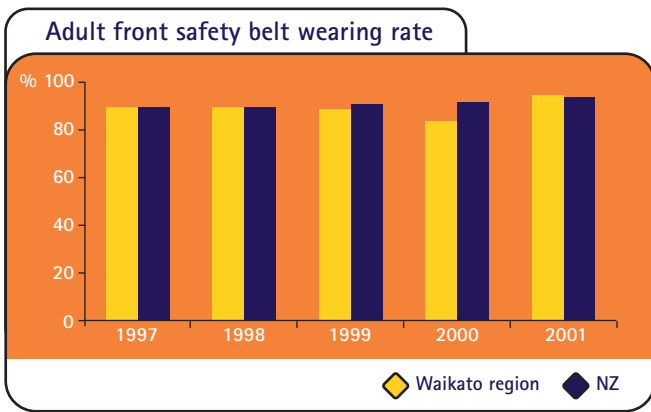




Restraints and helmets

Front seat safety belt use – adults

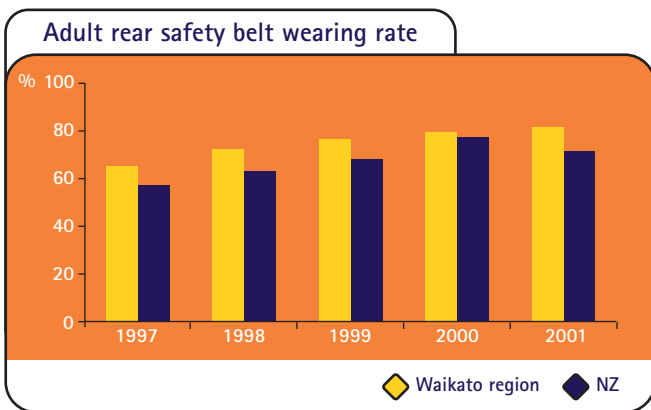
The national compliance rate for safety belt use by adults in front seats rose by two percent to 92 percent during 2001. In the Waikato region, the wearing rate improved a substantial 11 percent to be above the national average at 93 percent.



Rear seat safety belt use – adults

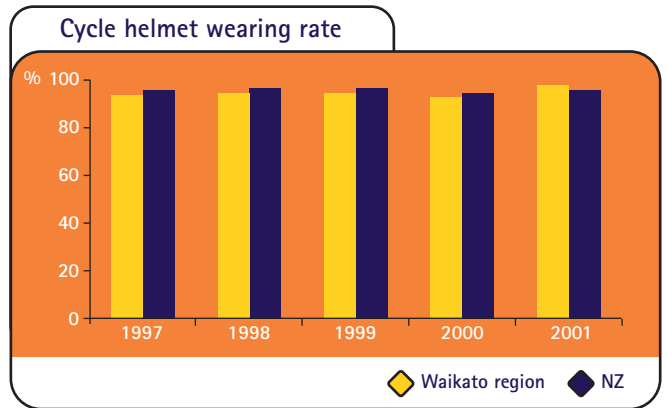
Responses from the Waikato region to the 2001 Public Attitudes Survey indicated that 13 percent of those surveyed thought that the chance of an adult being caught not wearing a safety belt as a rear seat passenger was very or fairly likely.

The national compliance rate of safety belt use by adults in rear seats fell from 76 percent to 70 percent in 2001. In the Waikato region, the wearing rate continued to be above the national average and rose by two percent to 80 percent.



Cycle helmets

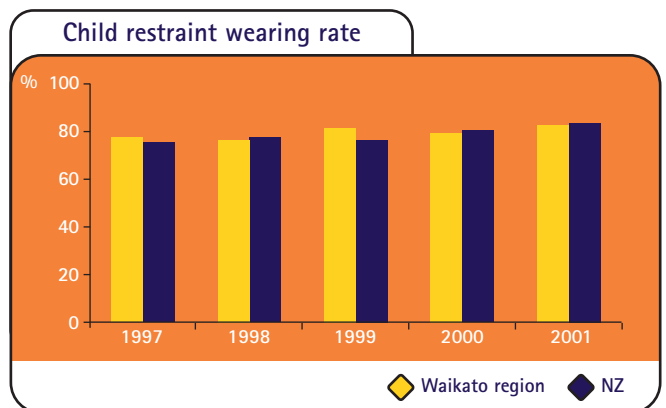
The national compliance rate for cycle helmet wearing improved by one percent to 94 percent during 2001. The Waikato region wearing rate also improved and is now above the national average for the first time in five years. The wearing rate rose five percent to 96 percent for 2001.



Child restraint use

Responses from the Waikato region to the 2001 Public Attitudes Survey indicated that 22 percent of those surveyed thought that the chance of being caught if a child under five in a back seat was not in a child restraint was very or fairly likely.

Nationally, the child restraint wearing rate improved slightly in 2001 – up three percent to 82 percent. In the Waikato region, the wearing rate also improved – up three percent to 81 percent in 2001.



Partnerships

The LTSA works closely with many road safety partners at national, regional and local levels. These include the New Zealand Police, local authorities, Transit New Zealand, Accident Compensation Corporation, health authorities and local service providers.

Road Safety Partnership Plans

Road Safety Partnership Plans will be developed over the next 12 months to reflect the collaborative process whereby the key road safety partners agree on the risk, identify objectives, direct tasks, set targets and monitor and review road safety progress. Partnership Plans will focus on the joint local authority areas that reflect the seven New Zealand Police areas within the Waikato and Bay of Plenty regions, and will be based on Road Safety Action Plans.

Road Safety Action Plans (RSAPs) take a number of forms. RSAPs focusing on community education and road environment are developed annually by road controlling authorities and regional councils to outline the road safety issues and risk areas, objectives, actions and management systems. Policing RSAPs are developed quarterly by the New Zealand Police and used as the basis for weekly/monthly Risk Targeted Patrol Plans (RTPPs) for frontline staff.

Community Road Safety Programme reviewed

A major component of the New Zealand Road Safety Programme, New Zealand's annual plan for road safety, is delivered through the Community Road Safety Programme (CRSP). The CRSP draws on major public health and community development strategies to assist its work, including those set out in the Ottawa Charter for health promotion.

A review of the CRSP has recently been completed. The aim of the review was to enhance the efficiency and effectiveness of the CRSP, which is now responsible for more than \$6 million in funding annually.

The review recommendations fall into four main groups.

- Ensuring a common understanding of the overall context and concept of the CRSP and developing operational alignment with this understanding.
- Improving decision making and streamlining the administrative processes.
- Building capacity at the community, local and regional levels to operate the programme effectively.
- Developing and implementing a treaty strategy and a cultural strategy.

Funding from the CRSP for the South Waikato district for the 2002/2003 year is proposed as follows:

Community development

Road safety co-ordinator

Committee run community programme

Road safety programmes

Poor observation driver education project

Small activity programme

The South Waikato district road safety co-ordinator is employed directly by South Waikato District Council and part funded by the LTSA.

The South Waikato district will also be involved this year in the following region-wide projects:

Road safety programmes

Regional restraints programme

Regional youth initiatives

Young road users education and campaigns

Social marketing

Open road safety project

Road safety engineering

'Road controlling authorities can continuously improve road safety performance by adopting quality assurance systems for the design and management of their roading networks. Leading RCAs, with LTSA's assistance, are currently developing safety management systems to identify road safety strategies, standards, expertise, management systems and audit regimes appropriate to their roading network. Safe road environments through RCA commitments to their safety management systems will support policing and education in halving the road toll over the next 10 years.'

Glenn Bunting

LTSA Regional Manager, Waikato and Bay of Plenty

The South Waikato district has a number of road safety engineering projects funded for 2002/2003, including:

- sight improvement on low volume roads
- stock underpass subsidies
- street lighting improvements
- bridge guard rail improvements.

Road policing

'Police in the Bay of Plenty have set out to reduce the road toll in the district by 20 percent (71 deaths in 2001 to 57 in 2002).

We are confident this can be achieved through better deployment of police resources to the four key risks – speed, alcohol, poor observation and not using safety belts.'

Superintendent Gary Smith

District Commander, Bay of Plenty

Land Transport Safety Authority

The LTSA Hamilton Regional Office is able to assist in road safety activities such as:

- crash reduction studies
- safety audits
- crash data provision and analysis
- general road safety advice
- general road engineering advice.

The LTSA website also contains road safety information, including electronic copies of this report and all of the others that have been produced for the country (www.ltsa.govt.nz).

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