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VEHICLE SAFETY RATINGS ESTIMATED FROM POLICE REPORTED CRASH DATA: 2012 UPDATE

AUSTRALIAN AND NEW ZEALAND CRASHES DURING 1987-2010

by

Stuart Newstead
Linda Watson
& Max Cameron

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Newstead, S.V., Watson, L.M and Cameron, M.H.

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Abstract:

This study describes the calculation of updated ratings that measure the relative safety of vehicles in preventing severe injury to people involved in crashes. Three different aspects of secondary safety are examined: crashworthiness which focuses on drivers of the rated vehicle, aggressivity which focuses on drivers of other vehicles and unprotected road users such as pedestrians, cyclists and motorcyclists colliding with the rated vehicle and total secondary safety which examines the combined crashworthiness and aggressivity performance of the rated vehicle. Updated ratings for 1982-2010 model vehicles were estimated based on data on crashes in Victoria and New South Wales during 1987-2010, in Queensland, Western Australia and New Zealand during 1991-2010 and in South Australia during 1995-2010. Each rating is measured as a combination of injury severity (the risk of death or serious injury given an injury was sustained) and injury risk (the risk of injury given crash involvement). The ratings were adjusted for the sex and age of the person whose injury outcome was being measured, speed limit at the crash location, number of vehicles, crash configuration and type or road user involved where relevant, the jurisdiction in which the crash occurred and the year in which the crash occurred. These factors were strongly related to the risk of an injury being sustained in the crash and the likelihood of injuries sustained being severe. Each rating estimates the risk of being killed or admitted to hospital when involved in a crash, to a degree of accuracy represented by the confidence limits of the rating in each case.

Crashworthiness estimates and their associated confidence limits were obtained for 506 vehicle models classified into 10 market groups. Aggressivity rating estimates and their associated confidence limits were obtained for 458 vehicle models. The total secondary safety index estimates and their associated confidence limits were obtained for 564 vehicle models classified into 10 market groups. A method for presenting the ratings for consumer information is also described. The rating presentation classifies vehicles according to where their rating lies in relation to a best performance benchmark.

The relationship between vehicle crashworthiness and the year of manufacture of Australian passenger and light commercial vehicles manufactured from 1964 to 2010 was also investigated. Trends were examined by year of manufacture both for the fleet as a whole and by market group for vehicles manufactured from 1982 to 2010.

The results of this report are based on a number of assumptions and warrant a number of qualifications that should be noted.

Key Words: (IRRD except when marked*)

Injury, Vehicle Occupant, Collision, Passenger Car Unit, Passive Safety System, Statistics

Monash University Accident Research Centre Building 70, Monash University Victoria 3800, Australia. Telephone: +61 3 9905 4371, Fax: +61 3 9905 4363

EXECUTIVE SUMMARY

This report describes the development of further updated vehicle secondary safety ratings for 1982-2010 model vehicles. The ratings produced cover vehicle crashworthiness, aggressivity and total secondary safety. Crashworthiness ratings measure the relative safety of vehicles in preventing severe injury to their own drivers in crashes whilst aggressivity ratings measure the serious injury risk vehicles pose to other road users with which they collide. The aggressivity rating measure is based on collisions between the vehicle being rated and both other vehicles and unprotected road users including pedestrians, bicyclists and motorcyclists. The total secondary safety index measure integrates into one measure the combined crashworthiness and aggressivity performance of a vehicle in a way most representative of the crash population involving the vehicle fleet being rated. It considers relative injury outcomes in the full range of crashes involving light passenger vehicles including single and multi vehicle crashes, crashes with heavy vehicle and crashes involving unprotected road users.

All three measures of vehicle secondary safety performance are estimated from data on real crashes reported to police. The update is based on crash data from Victoria and New South Wales during 1987-2010, from Queensland, Western Australia and New Zealand during 1991-2010 and from South Australia during 1995-2010. The assembled database covered 4,150,305 road users involved in tow-away crashes in New South Wales, South Australia, Queensland and Western Australia during 1987-2010 and 972,295 road users of 1982-2010 model vehicles who were injured in crashes in Victoria, New South Wales, Western Australia, Queensland or New Zealand during 1987-2010.

The crashworthiness ratings estimate the risk of a driver of the focus vehicle being killed or admitted to hospital when involved in a tow-away crash, to a degree of accuracy represented by the confidence limits of the rating in each case. The crashworthiness ratings were adjusted for the driver sex and age, the speed limit at the crash location, the year in which the crash occurred, the jurisdiction in which the crash occurred and the number of vehicles involved in the crash. These factors were found to be strongly associated with risk of injury when involved in a crash and the severity of injuries received. Adjustments were made with the aim of measuring the effects of vehicle factors alone, uncontaminated by other non-vehicle related factors available in the data that affected crash severity and injury susceptibility. Crashworthiness ratings and their associated confidence limits were calculated for 506 individual vehicle models manufactured between the years 1982-2010. Vehicles were classified into one of 10 market groups for presentation of the ratings with average crashworthiness of vehicles in each market group estimated.

The measure of aggressivity was calculated for 458 models of Australian and New Zealand passenger vehicles manufactured between the years 1982-2010. The aggressivity ratings estimate the risk of a vehicle driver or unprotected road user impacting with the focus vehicle model being killed or admitted to hospital when involved in a crash. Average aggressivity for vehicles in each of the 10 defined market groups was also estimated. Estimated vehicle aggressivity towards drivers of other vehicles or unprotected road users was found to have little or no relationship with ratings of vehicle crashworthiness, demonstrating the independence of the two complementary measures.

The total secondary safety index measures the average risk of death or serious injury to all light passenger vehicle drivers and unprotected road users (pedestrians, cyclists and

motorcyclists) when involved in a crash with the rated light passenger vehicle to a degree of accuracy represented by the confidence limits of the index in each case. It is a measure of the combined crashworthiness and aggressivity performance of the rated vehicle. Total secondary safety index estimates and their associated confidence limits were obtained for 564 vehicle models classified into 10 market groups.

Estimated total secondary safety was found to have a stronger relationship with ratings of vehicle crashworthiness than with vehicle aggressivity. This reflects that crashworthiness is relevant to the injury outcome of road users in a wider range of crash types than are covered by the aggressivity ratings. The index serves as a valuable summary of overall secondary safety of light passenger vehicles both for consumer information as well as for regulators and vehicle safety advocates in identifying and promoting vehicle safety characteristics that optimise overall secondary safety characteristics.

Each of the 3 ratings sets were was measured by a combination of injury severity (the risk of death or serious injury given an injury was sustained) and injury risk (the risk of injury given crash involvement).A far as possible, each index reflects the secondary safety performance related to vehicle design alone by controlling for a range of non-vehicle related factors known to affect injury outcome. Non vehicle related factors considered were the sex and age of the person whose injury outcome was being measured, speed limit at the crash location, number of vehicles involved, the jurisdiction in which the crash occurred and the year in which the crash occurred. For each measure these factors were strongly related to injury risk and/or severity. In addition to the above factors the total secondary safety rating was also adjusted for the type of crash and road user combination.

For each type of rating estimated, the expanded data set has been able to produce more up-to-date and reliable estimates for individual car models than those published previously. A method of presenting the ratings for consumer information is described. The new rating presentation classifies vehicles according to where their rating lies in relation to a best performance benchmark.

The crashworthiness of passenger vehicles in the Australian vehicle fleet (cars, station wagons, four wheel drives and vans), has been estimated by year of manufacture for the years 1964 to 2010. This study further updates the original one by Cameron et al (1994a) for years of manufacture 1964 to 1992. Updated trends in Australian crashworthiness by year of manufacture show similar patterns as previously obtained with the greatest gains over the years 1970 to 1979 in which a number of new Australian Design Rules aimed at occupant protection took effect. Further significant gains in crashworthiness have also been observed over the years 1988 to 2010, with notable steady gains from 1988 to 1996 and since 2001. Trends in crashworthiness by year of vehicle manufacture from 1982 to 2010 for each of the 10 vehicle market groups were also estimated showing differential improvement in crashworthiness by market group by year of manufacture.

The results and conclusions are based on a number of assumptions and warrant a number of qualifications that should be noted.

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VEHICLE SAFETY RATINGS ESTIMATED FROM POLICE REPORTED CRASH DATA: 2012 UPDATE

AUSTRALIAN AND NEW ZEALAND CRASHES DURING 1987-2010

1. INTRODUCTION

For over two decades the Monash University Accident Research Centre (MUARC) has been involved in a program of research examining issues relating to vehicle safety in both Australia and New Zealand through the analysis of mass data records on crashes reported to police. Data on which the research to date is based has come from reports compiled by police in various States across Australia and in New Zealand. In Victoria, some of the police reported crash data has been augmented by data on injury compensation claims resulting from transportation crashes compiled by the Victorian Transport Accident Commission (TAC).

A principal focus of the research program has been to produce vehicle secondary safety ratings for specific makes and models of vehicles and by market group of vehicle. For many years the ratings have focused on two aspects of vehicle safety performance: crashworthiness, being the ability of a vehicle to protect its own occupants in the event of a crash, and aggressivity, the ability of a vehicle to protect other road users with which it collides. More recently, an overall secondary safety ratings measure has been developed called the total secondary safety rating. It measures the combined relative crashworthiness and aggressivity performance of various makes and models of vehicles based on exposure to the mix of major crash types on Australasian roads where vehicle crashworthiness and/or aggressivity are important in determining injury outcomes.

The ratings have been updated at regular intervals (Newstead et al 1996, Newstead et al 1997, Newstead et al 1998, Newstead et al 1999, Newstead et al 2000, Newstead et al 2003a, Newstead et al 2004b, Newstead et al 2005b, Newstead et al 2006, Newstead et al 2007a, 2007b, Newstead et al 2008a, 2008b, Newstead et al 2009a, 2009b, Newstead et al 2010a, 2010b, Newstead et al 2011a, 2011b). The most recent prior update covered vehicles manufactured over the period 1982-2009 and crashing during 1987-2009. Progressive enhancement of the methods of statistical analysis has been incorporated through the ratings updates. From 1999 the ratings incorporated police-reported crash data from Queensland whereas previously only crash data from New South Wales and Victoria had been used. From 2003 the ratings also added police-reported crash data from Western Australia. From 2004 the ratings included police-reported crash data from New Zealand after a rigorous program of research establishing the comparability of vehicles between the Australian and New Zealand vehicle fleets in terms of their specification and secondary safety performance (Voyce, 2000; Robinson, 2000a,b, Newstead, 2000b, Newstead, 2002, Newstead et al 2003b). From 2007 the ratings also added police-reported crash data from South Australia. The crashworthiness ratings covered individual models of sedans, station wagons, four wheel drives, passenger vans and light commercial vehicles and are given as estimates of risk of severe injury for each model along with 90% and 95% confidence limits on each estimate.

The ratings have been published annually by the agencies supporting the research as a source of consumer information to aid the purchase of safe vehicles. They are marketed as the Used Car Safety Ratings reflecting the fact that ratings can only be produced some time after a vehicle is released for sale once sufficient real world crash experience has been accumulated. It also differentiates these ratings from those derived under the Australasian New Car Assessment Program based on crash barrier testing results which are targeted largely at new vehicle buyers.

1.1 Crashworthiness Ratings

Crashworthiness ratings rate the relative safety of vehicles in protecting their own occupants by examining injury outcomes to drivers in real world crashes reported to police. The

crashworthiness rating of a vehicle in the ratings system used in this report is a measure of the risk of death or serious injury to a driver of that vehicle when it is involved in a crash. This risk is estimated from large numbers of records of injury to drivers of that vehicle type involved in real crashes on the road. It is measured in two components:

1. Rate of injury for drivers involved in crashes where a vehicle is towed away or someone is injured (injury risk)
2. Rate of serious injury (death or hospital admission) for injured drivers (injury severity).

Multiplying these two rates together forms the crashworthiness rating. This is a measure of the risk of serious injury for drivers involved in crashes where a vehicle is towed away or someone is injured. Measuring crashworthiness as a product of two components, reflecting risk and severity of injury respectively, was first developed by Folksam Insurance, which publishes the well-known Swedish ratings (Gustafsson et al 1989) and were first published in Australia in Cameron et al (1994a,b) These ratings use an analysis method that was developed to maximise the reliability and sensitivity of the results from the available data whilst adjusting for the effects on injury outcome of non-vehicle factors that differ between vehicles. In addition to the speed zone and driver sex, the method of analysis adjusts for the effects of driver age and the number of vehicles involved, producing results with all those factors taken into account.

1.2 Aggressivity Ratings

The aggressivity measure used in the Australian vehicle safety rating system estimates the risk of the driver of another car or an unprotected road user (pedestrian, bicyclist or motorcyclist) being killed or seriously injured when involved in a collision with the subject model vehicle. It is representative of the total aggressivity performance of the vehicles being rated across all potential collision partners that are susceptible to injury. Like the crashworthiness measure, it is calculated as the product of two component measures, one measuring injury risk the other measuring injury severity.

Because an estimate of the risk of injury cannot be calculated for unprotected road users since crashes are generally not reported to the police when the unprotected road user is uninjured, the measure of aggressivity injury risk is based only on the injury risk to the drivers of other vehicles (ROU). It is defined as:

Aggressivity Injury Risk = ROU = proportion of other vehicle drivers involved in crashes who were injured

In contrast, complete records of both other drivers and unprotected road users injured in crashes are available in police reported crash data and can be used to examine injury severity outcomes in the aggressivity measure. The aggressivity injury severity measure (SOU) is defined as:

Aggressivity Injury Severity = SOU = proportion of other vehicle drivers or unprotected road users who were killed or admitted to hospital.

The aggressivity measure for each subject car model is then calculated as:

Aggressivity to other driver or unprotected road user = AOU = ROU x SOU.

Like the crashworthiness ratings, the aggressivity measure was adjusted for the effects of non-vehicle factors differing between the subject car models which may have affected injury outcome to the driver of the other vehicle. Non-vehicle factors available in the data included:

- speed limit at the crash location
- subject vehicle driver age (younger drivers may be driving at relatively fast speeds not fully represented by the speed limit)
- subject vehicle driver sex (male drivers may be driving at relatively fast speeds or more aggressively)
- other car occupant age (older occupants are more susceptible to injury)
- other car occupant sex (female occupants are more susceptible to injury, but males appear to be associated with relatively high injury severities)
- collision partner type (vehicle, pedestrian, bicyclist or motorcyclist) (injury severity analysis only)

1.3 Total Secondary Safety Index

Past presentations of the crashworthiness and aggressivity ratings for consumer information simply present the two ratings side by side. This leaves the consumer to decide the relative importance of each rating in making a decision on vehicle safety priority in their purchasing decision. From a consumer information perspective, this might seem a good strategy as it allows the consumer to balance the relative priority they give to their own safety versus the safety of other road users on an individual basis. However, it may not be ideal from the perspective of trying to steer the vehicle fleet as a whole in the direction of optimum safety which should be the overarching priority for safety advocates, regulators and, indeed, the community as a whole. If consumers generally based their vehicle choices only on crashworthiness performance and largely ignored aggressivity, sub optimal choices on a community wide safety basis may result. Similar sub-optimal choices may result if only aggressivity were considered. A desire to optimise vehicle secondary safety on a whole of community basis highlights the need for an index which combines the crashworthiness and aggressivity performance of a vehicle into a single index. The total safety index captures the overall secondary safety of the vehicle in the most meaningful way for the environment in which it is driven and hence crash circumstances to which it is exposed.

The international vehicle safety literature shows a paucity of effort in developing such an index. The only group to have given the concept serious consideration are the University of Oulu transport research group in Finland (Huttula et al, 1997). The Finnish group have measures of vehicle aggressivity and crashworthiness similar in concept to those developed by MUARC. From these they have developed a total passive safety index which is essentially the sum of the crashworthiness and aggressivity measures for each vehicle. Deriving the total passive safety index in this way implicitly assumes that crashworthiness and aggressivity have equal weighting in the overall passive safety performance of a vehicle. Whether this is the most appropriate approach is questionable since the relative balance of importance between crashworthiness and aggressivity will depend on the mix of crash circumstances the vehicle is exposed to.

A more detailed approach to the issue of estimating total vehicle passive or secondary safety has been explored in Newstead et al (2004a) and Newstead et al (2004b). This work, based on analysis of Australian crash data, commenced by identifying the four primary crash types in which light passenger vehicles were involved and identifying the principal injury outcomes of interest in the crash. The crash types identified were:

1. Crashes between two light passenger vehicles:

2. Single light passenger vehicle crashes.

3. Crashes between a light passenger vehicle and a heavy vehicle (bus, rigid truck or articulated truck).

4. Crashes between a light passenger vehicle and unprotected road user (pedestrian, bicyclist or motorcyclist).

The total secondary safety index defined by Newstead et al (2004b) was calculated by broad market group of vehicle and was a weighted average of four individual crashworthiness or aggressivity based measures. They are:

1. The crashworthiness of the light passenger vehicle in crashes between two light vehicles as a function of its impact partner market group (embodying both the crashworthiness of the focus vehicle market group as well as the aggressivity of the impact partner vehicle market group) – Crash type 1.
2. The crashworthiness of the light passenger vehicle in single vehicle crashes – Crash type 2.
3. The crashworthiness of the light passenger vehicle in crashes with heavy vehicles as a function of the heavy vehicle type – Crash type 3
4. The aggressivity of the light passenger vehicle towards unprotected road users – Crash type 4.

The total secondary safety index was defined as the weighted average of each of the four safety measures with the weighting factors used being the proportionate representation of each of the four crash types. As such, it represented the overall secondary safety performance of a vehicle, classified by market group in this case, in protecting all road users involved in the full range of crashes reflecting the relative incidence of each major crash type.

It is evident from examining the form of the total secondary safety index that the traditional measure of overall vehicle crashworthiness performance is embodied in the safety measures relating to crash types 1, 2, and 3. The traditional aggressivity measure is embodied in the safety measures relating to crash types 1 and 4. Constructing the total secondary safety index in this way is similar in basic principle to the approach used by the Oulu researchers. However it differs in the fact that it gives appropriate weighting to each aspect of a vehicle's secondary safety performance by weighting each component according to its relevance in Australian real world circumstances.

The work of Newstead et al (2004a) and Newstead et al (2004b) was useful in, for the first time, defining an overall secondary safety index for light passenger vehicles relevant to Australian circumstances. It was then able to use the index effectively to quantify the broad overall secondary safety effects of changing the mix of vehicles in the fleet. The index did, however, have some limitations related to the manual construction of the index from its components. First, there had to be sufficient data to estimate each of the component safety measures comprising the index. In the demonstration of the methodology this meant results could only be obtained by broad market group of vehicle and not for individual makes and models of vehicle. Second, estimates of statistical confidence on the index could not be estimated due to its complex nature.

Both these difficulties highlighted the need for development of an integrated total secondary safety index that could be estimated by vehicle make and model with associated estimates of statistical confidence.

Building on the approach to modelling vehicle total secondary safety demonstrated in Newstead et al (2004a) and Newstead et al (2004b), the study of Newstead et al (2007c) developed and applied an integrated single index of total secondary safety for light passenger vehicles in the Australian and New Zealand vehicle fleets. The index measures the average risk of death or serious injury to light passenger vehicle drivers and unprotected road users (pedestrians, cyclists and motorcyclists) when involved in a crash with a light passenger vehicle to a degree of accuracy represented by the confidence limits of the index in each case. It provides an overall summary of the combined crashworthiness and aggressivity performance of a vehicle. The index was measured by a combination of injury severity (the risk of death or serious injury given an injury was sustained) and injury risk (the risk of injury given crash involvement).As far as possible, the index reflects the total secondary safety performance related to vehicle design alone by controlling for a range of non-vehicle related factors known to affect injury outcome. The index was adjusted for the sex and age of the person whose injury outcome was being measured, speed limit at the crash location, number of vehicles involved, the jurisdiction in which the crash occurred and the year in which the crash occurred. These factors were strongly related to injury risk and/or severity. In addition to the above factors this rating was also adjusted for the type of crash and road user combination as this factor was strongly related to injury risk and/or severity.

The index serves as a valuable summary of overall secondary safety of light passenger vehicles both for consumer information as well as for regulators and vehicle safety advocates in identifying and promoting vehicle safety characteristics that optimise overall secondary safety characteristics.

1.4 Trends in Vehicle Safety by Year of Manufacture and Market Group

Another focus of the vehicle crashworthiness ratings study has been to track historical improvements in the average crashworthiness of the Australian vehicle fleet since 1964. In 1994, the Royal Automobile Club of Victoria (RACV) commissioned a study to investigate the effects of the year of manufacture of vehicles (vehicle year) on their road safety (Cameron et al 1994c). This project focused on investigating the relationship between crashworthiness and vehicle year of manufacture for the years 1964 to 1992. The aim of the original study of Cameron et al (1994c) was, to the extent possible, to measure the crashworthiness of vehicles of different years of manufacture. The method employed was designed to eliminate the influence of other key factors affecting the risk of injury that might also be associated with vehicle year (e.g. driver age and sex, use on high speed roads, etc.).

The original study of Cameron et al (1994c) showed that the crashworthiness of passenger vehicles in Australia has improved over the years of manufacture 1964 to 1992 with rapid improvement over the years from about 1970 to 1979. Drivers of vehicles manufactured during 1970 to 1979 could be expected to have benefited from the implementation of a number of Australian Design Rules (ADRs) for motor vehicle safety which previous research has shown to be effective in providing occupant protection. The study has been updated with each vehicle crashworthiness ratings update. The most recent analysis included vehicles with years of manufacture from 1964 to 2009 (Newstead et al 2011a, 2011b). Similar analyses have been undertaken for the New Zealand vehicle fleet by Newstead and Watson (2005a) showing quite different trends in crashworthiness by year of manufacture to that observed in the Australian

fleet reflecting the different regulatory frameworks across the two countries and the significant used vehicle import program in operation in New Zealand.

Extending the basic analysis, Newstead and Cameron (2001) examined trends in vehicle crashworthiness by year of manufacture from 1982 to 1998 within specific vehicle market groups. Vehicles were grouped into 4 market categories: small cars (<1100kg), medium cars (1100-1400kg), large cars (>1400kg) and sports utility vehicles (four wheel drive vehicles). Results of analysis found statistically significant differences in the trends in crashworthiness by year of manufacture between different market groups in both the injury risk and injury severity components of the crashworthiness measure. This analysis was most recently updated in Newstead et al (2011a, 2011b) for vehicles manufactured over the years 1982-2009 and grouped into 10 market classifications.

Using similar methods to those used for investigating trends in crashworthiness by year of manufacture, Newstead et al (2004a) has investigated trends in aggressivity by year of vehicle manufacture for the Australian fleet as a whole as well as by 8 broad market group classifications. Although differential trends in aggressivity were found between the various market groups of vehicle analysed, for the Australian vehicle fleet as a whole there has been no significant trend to improving or worsening aggressivity over the years of manufacture studied from 1964 to 2000.

1.5 Project Aims

The aim of this project was to update the previously published crashworthiness, aggressivity and total safety ratings of Newstead et al (2011a, 2011b) including additional crash data from the year 2009 for Victoria, New South Wales, Queensland, South Australia, Western Australia and New Zealand. The updated ratings aimed to cover the drivers of light passenger vehicles including cars, station wagons, four wheel drive vehicles, passenger vans, and light commercial vehicles manufactured during 1982-2010 and crashing in Victoria or NSW during 1987-2010 or South Australia during 1995-2010 or Queensland, Western Australia and New Zealand during 1991-2010.

This project also aimed to update the estimates of crashworthiness by vehicle year of manufacture for the Australian vehicle fleet to include vehicles manufactured over the years 1964 to 2010. For vehicle models from 1982 to 2010 that could be classified into a market grouping, the project also aimed to further investigate trends in crashworthiness of the Australian vehicle fleet by year of vehicle manufacture within each specific market group.

The study also aimed to further asses the relationships between vehicle crashworthiness and both the year of manufacture for all vehicles and the year of first registration for used vehicle imports in New Zealand. The study focused on light passenger vehicles manufactured from 1964 to 2010 and crashing in New Zealand during 1991 to 2010. The results are published separately in a supplement to this report.

2. CRASH DATA

Data from Victoria, New South Wales, Queensland, South Australia, Western Australia and New Zealand used to produce the vehicle safety ratings of Newstead et al (2011a) covering vehicles manufactured over the period 1982-2009 and crashing during the years 1987-2009 was again used here. In addition, data for 2010 from each of the five previously included Australian states and New Zealand was obtained and integrated bringing the total period of crash data covered to 1987-2010. Subsets of these data were taken in order to estimate the total secondary safety, crashworthiness and aggressivity measures. Similarly, data from Victoria, New South Wales, Queensland, South Australia and Western Australia used to produce the crashworthiness by year of manufacture estimates of Newstead et al (2011a) covering vehicles manufactured over the period 1964-2009 and crashing during the years 1987-2009 was again used here. The methods of selecting appropriate cases from each data source will be detailed here.

2.1 Victorian Crashes

Transport Accident Commission (TAC) injury claims from all types of road users who were involved in crashes in the period 1987 to 1998 had been merged with Police crash reports for the previous crashworthiness ratings. The Police reports were for all persons involved in crashes regardless of the Police officer recording the person as injured or uninjured. This procedure was followed because it was possible for an injury claim to be made in circumstances where injury was not apparent at the time of the crash. Crashes are reported to the Police in Victoria if a person is killed or injured, if property is damaged but names and addresses are not exchanged, or if a possible breach of the Road Traffic Regulations has occurred (Green 1990). The levels of matching of TAC claims with persons recorded on Police reports for each year during 1987-1998 achieved by Newstead et al (2003a) are shown in Table 1. The methods of matching for the data are detailed in Cameron et al (1994b).

Due to a breakdown in the matching process from 1999 subsequent updates of the ratings have used police crash data unmatched with TAC claims, although matched data prior to 1999 was still used. Any inconsistencies in injury severity coding introduced by changing from matched to unmatched data were controlled for in the analysis methodology through compensating for year of crash differences.

Table 1: *TAC claims for injury compensation from crashes during 1987-1998*

Year	TAC claims (all types of injured road users)	TAC claims matched with Police reports	Match rate (%)
1987	30,892	17,509	56.7
1988	28,427	16,672	58.6
1989	25,399	17,494	66.3
1990	19,633	13,886	70.7
1991	19,538	12,774	65.4
1992	19,251	13,118	68.1
1993	18,590	12,618	67.8
1994	19,341	11,927	61.6
1995	20,189	12,452	61.7
1996	19,954	14,034	70.3
1997	18,754	13,036	69.5
1998	18,561	12,395	66.8

Changes to the police data collection system in Victoria during 2005 meant that only data to about September 2005 was available for the update of Newstead et al (2007a). In the update of Newstead et al (2008a) complete 2005 crash data and 2006 crash data to about the end of September was available. In the update of Newstead et al (2009a) complete 2006 crash data and 2007 crash data to about the end of September was available. In the update of Newstead et al (2010a) complete 2007 and 2008 crash data was available. In the most recent update of Newstead et al (2011a) complete 2009 crash data was available. In this update complete 2010 crash data was available. Unmatched Victorian crash data for 2010 represented 8,500 injured drivers of 1982-2010 model vehicles involved in a crash in Victoria. These records were combined with the merged files of TAC claims with Police reports for 1987-1998 and police reported data only from 1999-2009, which represented 148,903 injured drivers of 1982-2009 model vehicles crashing during 1987-2009. The resulting file covered 157,403 injured drivers of 1982-2010 model cars. The information on these drivers was combined with data on drivers injured in the other four jurisdictions (see Section 2.6) to produce the updated crashworthiness ratings. For the study of crashworthiness by year of vehicle manufacture the merged TAC claims for injury during 1987-98 and police crash records during 1999-2010 covered 202,691 injured drivers of cars, station wagons or taxis manufactured over the years 1964-2010.

Calculation of aggressivity ratings required selecting vehicles involved in two car crashes followed by matching of the vehicle and occupant injury details for the two cars involved in the crash. For those vehicles manufactured over the period 1982 to 2010 injury details for the driver of the other vehicle in the crash were matched by returning to the full Victorian Police reported crash data files for 1987-2010. The data matching process identified 95,958 vehicles manufactured between 1982 and 2010 that had been involved in a crash with one other vehicle where the other vehicle had no restriction on its year of manufacture. Of the drivers of these other vehicles, 52,112 were injured and 43,846 were uninjured. It was not possible to use the uninjured records from the Victorian data, as they are incomplete due to the fact that only crashes involving injury are reliably reported in Victoria. Hence only the 52,112 records of other driver injury were used for calculation of the injury severity component of the vehicle aggressivity ratings. Of the 52,112 injured drivers, 12,006 were severely injured.

Collisions between a single vehicle and an unprotected road user where the vehicles were restricted to those manufactured between 1982 and 2010 were also identified for calculation of the aggressivity ratings using a variable identifying accident type from records for the years 1987 to 2010. Vehicles were matched with the unprotected road user casualty records to obtain the unprotected road user injury level. For the period 1987 to 2010, 25,681 unprotected road users were matched with vehicle records with an identified make and model and manufactured between 1982 and 2010. Of these 25,681 unprotected road users, 25,458 were injured, 10,712 seriously.

2.2 New South Wales Crashes

The Roads and Traffic Authority (RTA) in New South Wales supplied files covering 1,476,981 light passenger vehicles manufactured from 1982 to 2010 involved in Police reported crashes during 1987-2010 that resulted in death or injury or a vehicle being towed away. Model and year of manufacture have been added to each vehicle after matching with the NSW vehicle register via registration number and vehicle make. This was achieved using a procedure developed by the NRMA. The total crash files covered four wheel drive vehicles, passenger vans, and light commercial vehicles as well as cars and station wagons of all years of manufacture crashing in 1987 to 2010. The method of assembly of this data is given in Cameron et al (1994b).

NSW crash data files from 1987 to 1998 had injury severity of people involved in crashes coded using a four level scale. Levels used were: fatality, hospital admission, other injury and not injured. From 1998 onwards, the RTA identified inaccuracies by the Police in reporting injury severity that could not be rectified. In response, the RTA changed the injury severity coding in the NSW crash data to give only three levels: fatality; injury; and not injured. For the purpose of computing crashworthiness ratings, this meant the NSW data for 1999-2010 could not be used to estimate the injury severity measure in the same manner as previous rating updates.

Preparation of the NSW data for final analysis involved merging the files with vehicle information, including driver age and gender, with files supplied by NSW RTA covering details of the person casualties (killed and injured persons) and the reported crashes for the same years. Each vehicle/driver matched uniquely with the corresponding crash information, but only injured drivers could match with persons in the casualty files. A driver who did not match was considered to be uninjured. Of the 1,476,981 drivers involved in tow-away crashes, 254,654 were injured. Of the injured drivers, 72,678 were injured in crashes from 1987 to 1998 and had a valid injury severity level coded (serious or other injury).

Of the 1,476,981 1982-2010 model year vehicles involved in crashes in NSW, 922,249 were coded as being involved in crashes with one other traffic unit (i.e. the crash involved a total of two traffic units). In order to compare occupant injury levels in crashes involving two vehicles, it was necessary to match the crash and occupant injury information for each of the two vehicles involved in the crash.

The data used for calculation of the crashworthiness ratings covered only vehicles manufactured from 1982 to 2010. Consequently, initial matching of only the crashworthiness data to determine pairs of vehicles involved in a crash identified both the vehicles in the crash when both vehicles were manufactured from 1982 to 2010. A second matching stage was then required to identify the details of drivers of vehicles manufactured before 1982 that had collided with the unmatched 1982-2010 model year vehicles in the crashworthiness file. This required retrieval of the remaining crash records in the 1987-2010 NSW crash files not used for crashworthiness ratings

in order to match vehicles manufactured prior to 1982. The two-stage data matching process identified 415,608 matched records of vehicles manufactured between 1982 and 2010 that had been involved in a crash with one other vehicle where the other vehicle had no restriction on its year of manufacture. Of the drivers of these other vehicles, 62,150 were injured. Of the injured drivers, 19,928 were injured in crashes from 1987 to 1998 and had a valid injury severity level coded (serious or other injury).

Calculation of the aggressivity rating also required the identification of crashes between a single light vehicle and an unprotected road user where the vehicles were restricted to those manufactured between 1982 and 2010. The required crashes were identified using a variable identifying accident type. Casualty records for the crash years 1987 to 2010 were used to identify unprotected road users injured in a collision with one vehicle. The vehicles were then matched with the unprotected road user casualty records to obtain the pedestrian, bicyclist or motorcyclist injury level. For the period 1987 to 2010, 60,893 unprotected road users were matched with vehicle records. Of these 60,893 unprotected road users, 26,869 were injured in crashes from 1987 to 1998 and had a valid injury severity level coded. Of these, 8,486 were seriously injured.

For the study of crashworthiness by vehicle year of manufacture, the NSW data represented 1,743,834 drivers of cars, station wagons or taxis manufactured from 1964 to 2010 who were involved in tow-away crashes. Of these drivers, 296,015 were injured, 119,503 of these during 1987-1998 and with a valid injury severity code.

The presence of uninjured drivers in the merged data file meant that it was suitable for measuring the risk of driver injury (in cars sufficiently damaged to require towing). This contrasted with the Victorian and New Zealand data files, which could not be used to measure injury risk directly because not all uninjured drivers were included.

2.3 Queensland Crashes

Queensland Transport supplied files covering 471,907 light passenger vehicles involved in Police reported crashes during January 1991-December 2009 that resulted in death or injury or a vehicle being towed away. The files supplied covered years of vehicle manufacture from 1991-2009 including models of four wheel drive vehicles, passenger vans, and light commercial vehicles as well as cars and station wagons for which a model could be identified.

The vehicle files, which also contained links to separate files with driver age and sex, were merged with files supplied by Queensland Transport covering details of the person casualties (killed and injured persons) and the reported crashes for the same years. Each vehicle/driver matched uniquely with the corresponding crash information, but only injured drivers could match with persons in the casualty files. As for NSW, a driver who did not match was considered to be uninjured. Out of the 471,907 drivers involved in tow-away crashes, 130,139 were injured.

Of the 471,907 vehicles reported as crashed in Queensland and used in estimation of crashworthiness ratings, 342,960 were coded as being involved in crashes with one other traffic unit (i.e. the crash involved a total of two traffic units). In order to compare occupant injury levels between two vehicles involved in a crash, it was necessary to match the crash and occupant injury information for each of the two vehicles involved in the crash in the same manner as for NSW. Using the same two stage data matching process as used for NSW and

described above, the process identified 169,007 vehicles manufactured between 1982 and 2009 that had been involved in a crash with one other vehicle where the other vehicle had no restriction on its year of manufacture. Of the drivers of these other vehicles, 47,920 were injured, 11,153 seriously. These records were used for calculation of vehicle aggressivity ratings toward drivers of other vehicles.

Records on unprotected road users involved in a crash with one light vehicle unit were retrieved and identified using variables classifying unit type and number of units in the crash. Single vehicle collisions were identified using a variable identifying unit type and number of vehicles in the crash. These vehicles were then matched with the unprotected road user casualty records to obtain the injury level. A total of 25,545 unprotected road users were matched with records on 1982-2009 year passenger vehicles with model details identified. Of these 25,545 unprotected road users, 24,984 were injured, 11,059 seriously.

For the study of crashworthiness by vehicle year of manufacture, the Queensland data represented 421,301 drivers of cars, station wagons or taxis manufactured from 1964 to 2010 who were involved in tow-away crashes. Of these drivers, 117,925 were injured. The number of vehicles crashing in Queensland and available for the year of manufacture analysis was less than expected. This is because a large proportion of the vehicles in the Queensland data from 1997 and 1998 had year of manufacture missing due to difficulties in accessing the vehicle register to determine vehicle details at the time of assembling the data from these two years. Some of the vehicles with missing year of manufacture could, however, be assigned an accurate model code though the VIN decoding process described below despite the missing field.

As with the data from NSW, the presence of uninjured drivers in the data file meant that it was also suitable for measuring the risk of driver injury (in cars sufficiently damaged to require towing).

2.4 Western Australia Crashes

The Western Australian Department of Main Roads maintains a database of all crashes in Western Australia reported to the police. Crashes in Western Australia must be reported to police if anyone involved is killed or injured or the crash results in property damage greater than $3,000 (Road Safety Council of Western Australia, 2001). This means that, like New South Wales, South Australia and Queensland, both injury and non-injury crashes are reported making the data suitable for inclusion in estimating both the injury risk and injury severity components of the vehicle safety ratings. Although the Western Australia crash data is held as a relational database, Western Australia Department of Main Roads supplied the data in a single flat file with a record for each person involved in a reported crash. Data covered the period 1991 to 2010. The data was re-issued in 2005 for the period 1991 to 2003 due to a change in database structure and variable definitions in 1995 that may have caused some inconsistency in the data over the entire time period. In 2006 the data was re-issued for the period 1991 to 2005 to include registration plates of crashed vehicles. This registration plate detail was used for matching to Western Australian registration data to obtain VIN data for vehicle decoding as described in Section 3.1. In the most recent update (Newstead et al 2011a) 2009 crash data was supplied with registration plates of crashed vehicles. In addition matched registration data was provided. The 2010 crash data for this update was supplied with registration plates of crashed vehicles. This registration plate detail was used for matching to Western Australian registration data to obtain VIN data for vehicle decoding as described in Section 3.1.

The files supplied covered 1,126,050 light passenger vehicles manufactured between 1982 and 2010 involved in Police reported crashes during 1991-2010 that resulted in death or injury or a vehicle being towed away. The files supplied covered models of four wheel drive vehicles, passenger vans, and light commercial vehicles as well as cars and station wagons. Out of the 1,126,050 drivers involved in tow-away crashes, 160,447 were injured.

Of the 1,126,050 vehicles reported as crashed in WA and used in estimation of crashworthiness ratings, 837,769 were involved in crashes with one other traffic unit. Of the drivers of the matched vehicles, 83,170 were injured. These records were used for calculation of vehicle aggressivity ratings toward drivers of other vehicles.

Records on unprotected road users involved in a crash with one vehicle unit for the period 1991 to 2010 were retrieved and identified using variables classifying unit type and number of units in the crash. 38,620 unprotected road users in the Western Australia crash records were identified as colliding with a 1982-2010 year of manufacture passenger vehicle with model details identified. Of the 26,482 unprotected road users who were injured, 10,030 were severely injured.

For the study of crashworthiness by vehicle year of manufacture, the Western Australia data represented 998,012 drivers of cars, station wagons or taxis manufactured from 1964 to 2010 who were involved in tow-away crashes. Of these drivers, 138,908 were injured.

2.5 South Australia Crashes

The Road Crash Information Unit of the Department of Transport, Energy and Infrastructure maintains a database of all crashes in South Australia reported to the South Australian Police via vehicle crash reports. Crashes included involved at least one person being killed or injured, or a vehicle towed away, or total property damage of $3,000 or greater. Prior to 01 July 2003 the Department processed 'property damage only' crashes with an aggregated damage value of $1000 or greater. This change in property damage value occurred as data processing costs and budget reductions had reached an unsustainable level. The decision was made to process all casualty crashes, property damage only greater than $3000, and tow-away crashes regardless of value. Crash data was provided for the years 1995 to 2010 with three files provided for each year. The three files provided contain detail on the crash, traffic unit and casualties. In addition, data files have been provided with road and Local Government Area details. Like NSW, Queensland and Western Australia, both injury and non-injury crashes are reported making the data suitable for inclusion in estimating both the injury risk and injury severity components of the vehicle safety ratings.

The files supplied covered 719,921 light passenger vehicles manufactured between 1982 and 2010 involved in Police reported crashes during 1995-2010 that resulted in death or injury or a vehicle being towed away. The files supplied covered models of four wheel drive vehicles, passenger vans, and light commercial vehicles as well as cars and station wagons. Out of the 719,921 drivers involved in tow-away crashes, 66,429 were recorded as injured.

Of the 719,921 vehicles reported as crashed in South Australia and used in estimation of crashworthiness ratings, 540,795 were involved in crashes with one other traffic unit. Of the drivers of the matched vehicles, 32,645 were injured. These records were used for calculation of vehicle aggressivity ratings toward drivers of other vehicles.

Records on unprotected road users involved in a crash with one vehicle unit for the period 1995 to 2010 were retrieved and identified using variables classifying unit type and number of units in the crash. 23,084 unprotected road users in the South Australia crash records were identified as colliding with a 1982-2010 year of manufacture passenger vehicle with model details identified. Of the 15,439 unprotected road users who were injured, 3,821 were severely injured.

For the study of crashworthiness by vehicle year of manufacture, the SA data represented 806,389 drivers of cars, station wagons or taxis manufactured from 1964 to 2010 who were involved in tow-away crashes. Of these drivers, 75,907 were injured.

2.6 Crash and Registration Data from New Zealand

Two sources of data from New Zealand were used in the calculation of vehicle crashworthiness and aggressivity ratings. The first data source provided was a crash file showing the registration, vehicle, driver and various crash characteristics for all police reported crashes in New Zealand for the years 1991 to 2010. The second data source was registration data giving details of all crash involved vehicles on the NZ register in each year from 1991 to 2010. Extracts from both data sources supplied for estimation of vehicle safety ratings are described below. The method of assembly of this data is given in Newstead et al (2007).

After assembling the data, 250,931 light passenger vehicles manufactured between 1982 and 2010 were used in the crashworthiness analysis. Of the drivers of these vehicles 119,161 were not injured or had unknown injury status, whilst the remaining 131,770 were injured to some degree. The injury details of the 131,770 injured drivers were used for estimation of the crashworthiness injury severity measure in conjunction with the Australian data. Records on the uninjured drivers in the New Zealand injury crash data could not be used in the calculation of the injury risk component of the crashworthiness ratings. This was because non-injury crashes in New Zealand, and hence uninjured drivers involved in these crashes, were not suitable for use in the analysis and therefore records on all uninjured drivers in all crashes in New Zealand were incomplete.

A subset of the New Zealand data described above and used for estimation of crashworthiness injury severity formed the basis of the data used in the calculation of the aggressivity ratings. For calculation of aggressivity ratings, vehicles involved in two vehicle crashes were identified. Of the drivers of vehicles colliding with the vehicles identified, 43,216 were injured whilst 35,046 were uninjured. Information on the injury level of the 43,216 injured drivers, 6,469 of whom were seriously injured, was used in conjunction with the Australian data to estimate the injury severity component of the aggressivity ratings.

Records on unprotected road users involved in a crash with one light vehicle unit for the period 1991 to 2010 were retrieved and identified using variables classifying unit type and number of units in the crash. 27,991 unprotected road users were identified as impacting with a 1982-2010 year of manufacture passenger vehicle with model details identified. Of the 27,739 unprotected road users who were injured, 7,819 were severely injured.

2.7 Combined Data from the Six Jurisdictions

When the data on the injured drivers was combined for analysis, it covered 900,842 drivers of 1982-2010 model vehicles who were injured in crashes in Victoria or New South Wales during

1987-2010 or in South Australia during 1995-2010 or in Queensland during 1991-2009 or in Western Australia or New Zealand during 1991-2010. Of these, 718,866 had a valid injury severity code, with 181,976 drivers injured in crashes in NSW during 1999-2010 excluded because of missing injury severity. Information on the 718,866 injured drivers was used to assess the injury severity of the injured drivers of the different makes and models when computing crashworthiness ratings. The information on the 3,794,859 drivers involved in tow-away crashes in NSW during 1987-2010 or South Australia during 1995-2010 or Western Australia and Queensland during 1991-2010 was used to assess the injury rate of drivers of the different makes and models for computing crashworthiness ratings.

The combined data on drivers injured in crashes between two light vehicles used for estimation of vehicle aggressivity ratings covered 321,213 drivers of vehicles colliding with 1964-2010 model vehicles. These drivers were injured in two car crashes in Victoria during 1987-2010 or NSW during 1987-2010 or in South Australia during 1995-2010 or in Queensland during 1991-2009 or in Western Australia and New Zealand during 1991-2010. Excluding the 42,222 injured drivers from NSW during 1999-2010 without a valid injury severity code left 278,991 cases for analysis. This information was used to assess the injury severity of the injured drivers colliding with the different makes and models when computing aggressivity ratings. The aggressivity injury risk component was estimated from data including information on the 2,643,773 drivers involved in two-car tow-away crashes in NSW during 1987-2010, in South Australia during 1995-2010 or Western Australia and Queensland during 1991-2010.

The combined data on unprotected road users used for estimation of aggressivity covered 201,814 unprotected road users, of whom 146,971 were injured. Of those injured, 51,927 with valid injury severity codes were seriously injured. These unprotected road users were involved in a collision with a 1982-2010 model vehicle in Victoria or NSW during 1987-2010, or in South Australia during 1995-2010 or in Western Australia or Queensland or New Zealand during 1991-2010.

For the study of crashworthiness by year of vehicle manufacture, the combined data covered 654,934 drivers of vehicles manufactured between 1964 and 2010 who were injured in crashes, 149,648 severely, in Victoria during 1987-2010, NSW during 1987-1998, in South Australia during 1995-2010 and Western Australia and Queensland during 1991-2010. For the assessment of injury risk by year of vehicle manufacture, the combined data covered 3,969,536 drivers involved in tow-away crashes in NSW during 1987-2010 or in South Australia during 1995-2010 or Western Australia and Queensland during 1991-2010.

3. MODELS AND MARKET GROUPS OF VEHICLES

3.1 Vehicle Model Identification

A procedure initially developed by the NRMA based on decoding Vehicle Identification Numbers (VIN) or chassis numbers was extended and used as the primary means to determine the models of light passenger vehicles. The decoding identified some light truck and unusual commercial models that were not considered further. Of the light passenger vehicles manufactured during 1982-2005 around 95% had their model identified by the VIN decoder. Further details of the VIN decoding process are given by Pappas (1993). The VIN decoding procedure was used to identify all vehicle models in the New South Wales and Queensland data and 1989 year of manufacture vehicles onwards in the Victorian data from 1994. For the first time VINs were obtained from the Western Australian vehicle register, managed by the WA Department of Transport. This meant the VIN decoding system used on data from the other four states to identify vehicle model details was used for some of the Western Australia crash data. Because only a recent snapshot of the registration file was obtained registration details of expired registrations was not available. The VIN decoding system was also used to identify make and model details for vehicles sold new in New Zealand with a valid ISO VIN recorded.

For those vehicles in Western Australia without a VIN available, the previous decoding method based on make, model and year of manufacture codes held in the vehicle register and described in Newstead et al (2006) was used. A similar system was used to classify new vehicles in the New Zealand crash data without a valid ISO VIN and for used imported vehicles from Japan. For Victorian vehicles in the pre 1994 data without a VIN, a system of decoding based on vehicle mass and power was used. This is also described in Newstead et al (2006).

South Australia registration data was matched to crash data by the Driver and Vehicle Licensing section of the Department of Transport, Energy and Infrastructure using an extract comprising of the crash date and six character plate detail of the crashed vehicle from the crash data provided to MUARC by the Transport Services Division of the same Department. The vehicles were selected on the basis that the plate was registered as being on the vehicle as at the crash date and the vehicle was registered by the client as at the crash date and was described by the extracted vehicle details. Plate detail in the provided crash data was only six characters whilst the plate numbers on the South Australia register can be longer than six characters, so the numbers were used "as they are" to extract the data. Plates are identified on the South Australia register using plate type and plate number. This resulted in some plate/crash date combinations being extracted more than once. These were excluded from the analysis. Where no match has been possible, the original plate and crash date remain with no extract details populated. Other vehicle details including make, year of manufacture and model which is a free format field on the register and as such, doesn't contain codified or verified data were supplied. This meant the VIN decoding system used on data from the other four states to identify vehicle model details was able to be used for the South Australia crash data.

RACV, RTA, NRMA, NZTA and VicRoads provided advice on the particular models that had experienced substantial changes in design (and hence potential crashworthiness) and in which years the design was relatively constant. This was validated and supplemented by information from Redbook on vehicle specification. This resulted in certain models being split into ranges of years of manufacture. Where the new model was introduced near the beginning or end of a year (up to two months either way), this process was relatively straightforward (accepting a small miss-classification in some circumstances). However, when the model changed near the middle

of the year, the model for that year was kept separate and potentially treated as a "mixed" model (e.g. the Daihatsu Charade 1987 models). Where exact model decoding was possible from the VIN, without using year of vehicle manufacture, this was used. They also provided advice on vehicle models that could be combined with each other (sometimes only for specific years) because they were essentially the same design or construction but registered as having different manufacturers.

As in previous crashworthiness ratings, models were excluded with fewer than 20 injured drivers and/or fewer than 100 involved drivers appearing in the crash data. The same selection criteria were also used for aggressivity ratings except exclusion was based on the number of road users colliding with the focus vehicle model. These selection criteria were used to ensure stability in fitting the logistic regression models to estimate the ratings.

3.2 Pooled Car Models

Vehicle model sharing amongst manufacturers retailing in the Australian market has been relatively common. Because shared models are generally identical, particularly with respect to safety performance, it is possible to pool such models for safety rating, allowing a more precise estimate of the safety of models for which data is pooled rather than considering each separately. Pooled models are identified in the report appendices by their combined vehicle make and model names.

It should be noted that some of the vehicle models identified in the data have optional safety equipment, such as air bags, which could significantly alter the secondary safety performance of the vehicle model when fitted. It is, however, generally not possible to identify which particular vehicles of a model series do and do not have such optional safety equipment installed using the model decoding procedures described above. Consequently, for those vehicle models with optional safety equipment, the estimated ratings represent an average of the safety performance for vehicles with and without the optional safety equipment weighted by the number of each in the crash data.

As the ratings only measure injury outcome in the event of a crash and not the risk of the crash occurring, the effect of fitment of active or crash avoidance safety features such as anti-lock braking or electronic stability control systems on crash avoidance was not measured by these ratings. As only driver injury outcomes were considered amongst vehicle occupants, optional or standard safety features for the front or rear seat passengers, such as passenger frontal airbag systems, would also not have affected the ratings.

3.3 Vehicle Market Groups

Previous updates of the vehicle safety ratings have classified vehicle models, for the purpose of publication, into one of a number of market groups. The market groups defined are based heavily on those used by the Federal Chamber of Automotive Industries (FCAI) for reporting Australian vehicle sales as part of their VFACTS publication (see www.fcai.com.au for further details). The 10 market groups defined for analysis are as follows with a broad description of the classification criteria used to define each (although the criteria are not strictly applied and some judgement on classification used according to where a vehicle is classified by VFACTS) .

Passenger Cars

Light	Passenger car, hatch, sedan, coupe or convertible 3 or 4 cylinder engine, up to1, 500 cc, tare mass < 1150kg.
Small	Passenger car, hatch, sedan, wagon, coupe or convertible 4 cylinder engine, 1,501 cc - 2,000 cc, tare mass 1150-1350kg.
Medium	Passenger car, hatch, sedan, wagon, coupe or convertible 4 cylinder engine, 2,001 cc upward, tare mass 1350-1550kg.
Large	Passenger car, hatch, sedan, wagon, coupe or convertible 6 or 8 cylinder engine, tare mass > 1550kg.
People Movers	Passenger usage seating capacity > 5 people.

Sports Utility Vehicles (also called Four Wheel Drive Vehicles) (high ground clearance, wagon generally with off road potential)

SUV Compact	Index rating < 550 (typically less than 1700kg tare mass)
SUV Medium	Index rating 550 - 700 (typically between 1700kg and 2000kg tare mass)
SUV Large	Index rating > 700 (typically greater than 2000kg tare mass)

Light Commercial Vehicles

Van	Blind & window vans.
Utility	Two and four wheel drive, normal control (bonnet), utility, cab chassis and crew-cabs.

The classification of SUV vehicles is based on an index developed by VFACTS that considers gross vehicle mass, maximum engine torque and the availability of a dual range transmission. The index typically classifies the vehicles roughly by tare mass as indicated on the classifications above. Some departures from the VFACTS classification have been made in presenting the ratings in this study. VFACTS defines a luxury SUV category based on vehicle price as well as classifying sports cars priced above the luxury car tax threshold as luxury vehicles. Here, the luxury SUVs have been distributed amongst the 3 defined SUV categories based on tare mass, as the information for computing the classification index used by VFACTS was not available at the time of the study.

There have also been some departures from the classification principles defined above for certain vehicle models that have a range of engine sizes and hence fall across two different defined categories. These are typically passenger vehicles and include, for example, cars like some models of the Toyota Camry that come fitted with a large 4 cylinder engine in some variants and a 6 cylinder engine in other variants. In these cases, a value judgement has been made for each vehicle model individually based on the other vehicle models with which each typically competes in the market place.

4. ANALYSIS

4.1 Overview of Analysis Methods: Crashworthiness

The crashworthiness rating (C) is a measure of the risk of serious injury (hospitalisation or death) to a driver of a car when it is involved in a crash. It is defined to be the product of two probabilities (Cameron et al, 1992):

i) the probability that a driver involved in a crash is injured (injury risk), denoted by R; and
ii) the probability that an injured driver is hospitalised or killed (injury severity), denoted by S.

That is

$$C = R \times S.$$

Folksam Insurance, who publishes the well-known Swedish ratings, first measured crashworthiness in this way (Gustafsson et al, 1989).

In the present report, each of the two components of the crashworthiness rating was obtained by logistic regression modelling techniques (Hosmer & Lemeshow, 1989). Such techniques are able to simultaneously adjust for the effect of a number of factors (such as driver age and sex, number of vehicles involved, etc.) on probabilities such as the injury risk and injury severity whilst estimating the role of vehicle model, market group or year of manufacture in the injury outcome. This method, described fully in Newstead et al (2006), has previously been used to produce the Australian and New Zealand vehicle fleet crashworthiness ratings. For estimation of the crashworthiness ratings, factors in the logistic model included the available non-vehicle factors influencing injury outcome as well as the variable indicating vehicle model, market group or year of manufacture. Newstead et al (2006) details how confidence limits on the regression estimates of injury risk and severity are calculated with these techniques also being used here.

A stepwise procedure was used to identify which non-vehicle factors and their interactions had an important influence on driver injury outcome. Logistic models were obtained separately for injury risk and injury severity because it was likely that the various factors would have different levels of influence on these two probabilities. The non-vehicle factors considered in the analysis for both injury risk and injury severity were

- **sex:** driver sex (male, female)
- **age:** driver age (≤25 years; 26-59 years; ≥60 years)
- **speedzone:** speed limit at the crash location (≤75 km/h; ≥80 km/h)
- **nveh:** the number of vehicles involved (one vehicle; >1 vehicle)
- **state:** jurisdiction of crash (Victoria, NSW, SA, QLD, WA, NZ)
- **year:** year of crash (1987, 1988, … , 2010)

These variables were chosen for consideration because they were part of the Victorian, Queensland, New South Wales, South Australia, Western Australia and New Zealand databases. Other variables were only available from one source and their inclusion would have drastically reduced the number of cases that could have been included in the analysis. All data were analysed using the Logistic Regression procedure of the SAS statistical package (SAS, 1989). Some model exclusions were made from the analysis by make and model of vehicle for vehicle model classifications that had no practical interpretation or where there were too few cases for

inclusion. This included models in a particular year where there was a change from one series to the next and year of manufacture was necessary to determine the series break (such as Mitsubishi Pajero 1991). It also included some groups of highly aggregated models that would be of no intrinsic interest to consumers using the ratings (such as Jeep Others or Mazda Commercials). After exclusion, the regression analyses were performed on 506 individual car models (or pooled similar models). A list of all vehicle models considered, with those with sufficient data for analysis indicated, is given in Appendix 1.

These techniques were applied to produce estimates of injury risk, injury severity and crashworthiness by vehicle make and model, market group or year of manufacture.

4.2 Overview of the Analysis Methods: Aggressivity

The aggressivity rating estimates the risk of death or admission to hospital to both the drivers of the other cars and to unprotected road users when involved in a collision with the subject model car. Unprotected road users include pedestrians, bicyclists and motorcyclists. Because an estimate of the risk of injury cannot be calculated for unprotected road users as explained above the measure of aggressivity injury risk used was based only on the injury risk to the other driver (ROU). It is defined as:

Aggressivity Injury Risk = ROU = proportion of other vehicle drivers involved in crashes who were injured

In contrast, complete records of both other drivers and unprotected road users injured in crashes are available and can be used to examine injury severity outcomes in the aggressivity measure. The aggressivity injury severity measure (SOU) is defined as:

Aggressivity Injury Severity = SOU = proportion of other vehicle drivers or unprotected road users who were killed or admitted to hospital.

Based on the definition of ROU and SOU above, an aggressivity measure for each subject car model was then calculated as before:

Aggressivity to other driver or unprotected road user = AOU = ROU x SOU.

Consideration was given to taking into account likely differences between the crash circumstances of the subject car models, which may result in a distorted view of its aggressivity only partly related to the characteristics of the subject cars. Factors available in the data to consider such differences were as follows.

- **agefcd**: age of driver of subject car (<=25 years, 26-59 years, >=60 years)
- **sexfcd**: sex of driver of subject car
- **ageoo**: other car driver age (<=25 years, 26-59 years, >=60 years)
- **sexoo**: other car driver sex (male, female)
- **speedzone**: speed limit at the crash location (≤75 km/h; ≥80 km/h)
- **state**: jurisdiction of crash (Victoria, NSW, SA, QLD, WA, NZ)
- **year**: year of crash (1987, 1988, … ,2010)
- **crash type**: collision partner type (vehicle, pedestrian, bicyclist or motorcyclist) (injury severity only)

Estimation of the aggressivity measure has utilised logistic regression techniques to adjust ROU and SOU separately for any major differences that emerge between models of the subject cars regarding these factors. The adjusted ROU and SOU have been multiplied together for each subject car model to provide the final measure of aggressivity, AOU. Full details of the analysis techniques are given in Newstead et al (2006). Analyses by make and model of vehicle were performed on 458 individual car models for calculation of the aggressivity rating. Estimates were also obtained by market group.

4.3 Overview of Analysis Methods: Total Safety

The concept of the total secondary safety index developed in Newstead et al (2004b) forms the basis of the integrated single measure of total secondary safety developed in Newstead et al (2007c) and used here and has some inherent similarities to the crashworthiness and aggressivity metrics developed by MUARC as will become evident. Like the initial index of Newstead et al (2004b), the integrated total secondary safety index is formulated by considering the four major crash types involving light passenger vehicles and the most relevant injury outcomes in those crashes. Table 3 summarises the key elements necessary to calculate the total secondary safety index. The table is categorised by each of the four major crash types considered giving the focus crash participants whose injury outcomes are considered in the index and representations of the key injury counts by injury severity level. The final column of Table 2 gives the proportion of the total crash population represented by each crash type for the crash population being considered.

Table 2: *Light passenger vehicle crash types, injury outcome counts and percentage representation components for formulating the total secondary safety index.*

Crash Type	Focus Crash Participant	Number Involved	Number Injured	Number Killed or Seriously Injured	Proportion of Total Crash Population
1. Passenger Vehicle to Passenger Vehicle	Focus light vehicle driver	E_{1f}	I_{1f}	S_{1f}	p_1
	Other light vehicle driver	E_{1o}	I_{1o}	S_{1o}	
2. Single Passenger Vehicle	Light vehicle driver	E_2	I_2	S_2	p_2
3. Passenger Vehicle to Heavy Vehicle	Light vehicle driver	E_3	I_3	S_3	p_3
4. Passenger Vehicle to Unprotected Road User	Unprotected road user	*N/A*	I_4	S_4	p_4

N/A – Not fully reported in police crash records

As noted in Newstead et al (2004a), heavy vehicle drivers are typically not injured in crashes with light passenger vehicles and are hence not considered in the total secondary safety index. Similarly, drivers of the light passenger vehicle are not injured in crashes with unprotected road users and have not been included in formulating the index. Vehicle occupants other than drivers have not been considered as they are often not recorded by police in their crash reports unless injured. Similarly, crashes involving uninjured unprotected road users are generally not reported to police and hence the total number of unprotected road users involved in crashes is unknown. The 'focus' light vehicle driver in Table 3 refers to the driver of the vehicle being rated whilst the 'other' vehicle is the collision partner.

Like the crashworthiness and aggressivity measure, the total secondary safety index is defined as the product of an injury risk component and an injury severity component. The need to define a two component measure is necessary to be able to make best use of the police reported crash databases in New Zealand and Victoria that record only crashes involving injury. It is not possible to determine the total number of crash involved people in these jurisdictions since records on crashes where no one is injured is not available. Hence these two data sets are only useful for measuring relative injury severity and not injury risk.

The measure of total secondary safety injury risk, R_T, is defined as follows:

$$R_T = \frac{p_1\left(\frac{I_{1f}}{E_{1f}} + \frac{I_{1o}}{E_{1o}}\right) + p_2\frac{I_2}{E_2} + p_3\frac{I_3}{E_3}}{2p_1 + p_2 + p_3}$$

It measures the average risk of injury across all key participants in a crash involving a light passenger vehicle weighted by the relative exposure of each participant type across the entire crash population. Since unprotected road users are generally injured crashes reported to police, they are not included in the injury risk measure. The corresponding total secondary safety injury severity measure, S_T, is defined as follows:

$$S_T = \frac{p_1\left(\frac{S_{1f}}{I_{1f}} + \frac{S_{1o}}{I_{1o}}\right) + p_2\frac{S_2}{I_2} + p_3\frac{S_3}{I_3} + p_4\frac{S_4}{I_4}}{2p_1 + p_2 + p_3 + p_4}$$

It measures the average risk of death or serious injury given some injury was sustained across all key participants in a crash weighted again by the relative exposure of each participant type across the entire crash population. The integrated total secondary safety index, T, is defined to be the product of the injury risk and injury severity components:

$$T = R_T \times S_T .$$

It measures the average risk of death or serious injury in crash involving a light passenger vehicle across all key participants in a crash weighted again by the relative exposure of each participant type across the entire crash population. It can be estimated for individual vehicle models, by vehicle market groups or for the fleet as a whole as desired with a table of the form of Table 3 being derived for each entity at the level of disaggregation desired.

The description of the total secondary safety index has defined 5 key focus crash participants whose injury outcome forms the basis of the index. Depending on the available data, it is possible to define a more detailed index that further breaks down the categories of key participants. Further breakdowns considered in developing the index were:

Unprotected road user into	Bicyclist Pedestrian Cyclist
Heavy vehicle collision partner into	Rigid Truck

Articulated Truck
Bus

This made a total of 9 key participant categories considered in the total secondary safety index. The final number of categories that were able to be sustained in practical application of the index depended on the amount of crash data available from each category and the level of vehicle aggregation at which the index was being calculated (e.g. make and model of vehicle vs market group).

Like the crashworthiness and aggressivity indices developed by MUARC, the aim for the integrated total secondary safety index was that it reflect only the influence of the vehicle on injury outcome and not factors external to the vehicle such as key participant or crash characteristics. Consequently, there was a need to compensate for differences in these key non vehicle related factors that existed form vehicle model to vehicle model or by market group. Logistic regression analysis was utilised to produce total secondary safety ratings appropriately adjusted for the influence on non-vehicle related factors on injury outcome. For estimation of the total secondary safety ratings, factors in the logistic model included the available non-vehicle factors influencing injury outcome, such as driver or unprotected road user age and gender, year and jurisdiction of crash and crash configuration, as well as the variable indicating vehicle model or market group.

Since the analysis potentially included 2 drivers from the same crash in a light vehicle to light vehicle crash, an assumption implicit in the logistic modelling process was that, given the level of impact severity of the crash represented by non-vehicle factors in the logistic model, it was assumed that the injury outcome of the two drivers was independent. This assumption was considered reasonable since the estimated crashworthiness and aggressivity of vehicles rated by Newstead et al (2007a and 2008a) appear to be essentially independent and each of these measure focuses heavily on the injury outcome of each driver in a two vehicle crash.

In the present report, as with the crashworthiness and aggressivity ratings each of the two components of the total secondary safety index was obtained by logistic regression modelling techniques (Hosmer & Lemeshow, 1989). Such techniques are able to simultaneously adjust for the effect of a number of factors on probabilities such as the injury risk and injury severity whilst estimating the role of vehicle model, market group or year of manufacture in the injury outcome. Only the average total secondary safety across a standardised set of crash circumstances and occupant characteristics was of interest. This method is described fully in Newstead et al (2007c) along with details on how confidence limits on the regression estimates of injury risk and severity are calculated.

The factors considered during this stage of the analysis for both injury risk and injury severity were

- **sex:** driver or unprotected road user sex (male, female)
- **age:** driver or unprotected road user age (≤25 years; 26-59 years; ≥60 years)
- **speedzone:** speed limit at the crash location (≤75 km/h; ≥80 km/h)
- **nveh:** the number of vehicles involved (one vehicle; >1 vehicle)
- **state:** jurisdiction of crash (Victoria, NSW, QLD, WA, NZ)
- **year:** year of crash (1987, 1988, … ,2010)

For this update the factor specifying the number of vehicles (nveh) was removed as it was correlated with the following factor, crash combination type (crashtyp).

A further critical factor that is likely to vary between vehicle models is the mix of collisions between light passenger vehicles and both other vehicles of various types and unprotected road users. The injury severity (S_T) and injury risk (R_T) components of the new total secondary safety measure (T) is an average of injury severity or injury risk outcomes respectively across the mix of crash types involving the focus vehicle. Since injury outcomes will vary considerably across the mix of crash types it is necessary to adjust the new total secondary safety injury severity measure and injury risk measure to account for differences in the proportion of crash type combinations between vehicle models. To adjust for potential differences a further factor was included in the logistic regression models for both total secondary safety injury risk and injury severity. The factor used was:

- **crashtyp** crash combination type,

For the injury risk analysis the crash combination types consisted of:

- two vehicle – focus vehicle driver
- two vehicle – other vehicle driver
- single vehicle
- heavy vehicle collisions (including collisions with articulated trucks, rigid trucks or buses)

For the injury severity analysis an additional collision combination type was included being collisions between a light passenger vehicle and unprotected road users (pedestrians, bicyclists or motorcyclists). This additional collision combination type was excluded from the injury risk analysis because in general crashes involving pedestrians, bicyclists and motorcyclists are seldom reported to the Police unless someone is killed or injured which is usually the unprotected road user. This means that an estimate of the risk of injury cannot be calculated for the unprotected road user.

Although heavy collisions could be further categorised into rigid truck, articulated truck or bus collisions and unprotected road users could be further categorised into pedestrians, bicyclists and motorcyclists it was important to ensure that the logistic model adequately described the data and did not yield coefficients that were imprecise or unstable. For this reason, for both heavy vehicle collisions and unprotected road user collisions, the sub type classifications were pooled to ensure sufficient data for precise and stable results.

5. RESULTS

5.1 Vehicle Crashworthiness Ratings

5.1.1 Injury Risk

Injury risk was estimated from the data on 3,794,859 drivers involved in tow-away crashes in New South Wales, South Australia, Queensland and Western Australia during 1987-2010. This data set is referred to as the "involved drivers". Because of missing values in one or more of the covariates driver sex and age, speed zone and number of vehicles involved in the crash amongst the 3,794,859 involved drivers and vehicle models of interest, the final file used for analysis consisted of the 2,181,102 drivers for which all the covariate data was complete. Of these drivers 383,196 were injured. The following non-vehicle related factors and their interactions were significantly associated with injury risk and were included in the logistic model:

Base effect terms	First order interactions	Second order interactions	Third order interactions
Sex	Speedzone*Nveh	Age*Speedzone*Nveh	Speedzone*State*Year*Nveh
Speedzone	Sex*Nveh	Sex*Speedzone*Nveh	Sex*Speedzone*State*Nveh
Age	Sex*Age	Speedzone*Year*Nveh	Age*Speedzone*State*Nveh
Nveh	Age*Nveh	Sex*State*Nveh	
State	Speedzone*Age	Speedzone*Nveh*State	
Year	State*Year	State*Year*Nveh	
	Nveh*State	Age*State*Nveh	
	Year*Nveh	Age*Speedzone*State	
	Age*State	Speedzone*State*Year	
	Age*Year	Sex*State*Year	
	Speedzone*Year	Sex*Speedzone*State	
	Speedzone*State	Age*State*Year	
	Sex*Speedzone	Age*Speedzone*Year	
	Sex*State	Sex*Year*Nveh	
	Sex*Year	Age*Sex*Speedzone	
		Age*Sex*State	

The overall (average) injury risk for involved drivers in tow-away crashes in NSW, South Australia, Western Australia and Queensland was 17.57 injuries per 100 involved drivers. Appendix 2 gives the estimates of injury risk derived by logistic regression for the 506 individual car models that were rated. Injury risk ranged from 8.16% for the 2003-2010 Volvo XC 90 to 44.94% for the 1982-1990 Daihatsu Hi Jet. An estimate of the variability in the injury risk estimates was calculated from the width of the corresponding 95% confidence intervals. Individual confidence interval widths ranged from 0.67% for the 1993-1997 Holden Commodore VN/VP, Toyota Lexcen to 18.30% for the 2003-2005 Daihatsu Charade. The small variability for the Holden Commodore and Toyota Lexcen series sedan reflects the large number of cars of this model in the data set with precision known to improve with increasing sample size.

The estimated injury risk for each market group is also given in Appendix 2. The large sports utility vehicles had the lowest injury risk (13.09%) and the light car market group had the highest (23.44%).

5.1.2 Injury Severity

The data on "injured drivers" covered 900,842 drivers of 1982-2010 model vehicles who were injured in crashes in Victoria, New South Wales, South Australia, Western Australia, Queensland or New Zealand during 1987-2010. Because of missing values in one or more of the covariates or invalid injury severity codes amongst the 900,842 injured drivers, the final file used for analysis consisted of the 421,895 drivers for which all the covariate data was complete. Of these drivers 87,470 were seriously injured. The following non-vehicle related factors and their interactions were significantly associated with injury severity and were included in the logistic model:

Base effect terms	**First order interactions**	**Second order interactions**	**Third order interactions**
Sex	Sex*State	Speedzone*Nveh*State	Speedzone*State*Year*Nveh
Speedzone	Speedzone*Nveh	Speedzone*State*Year	
Age	Age*Sex	Age*State*Nveh	
Nveh	Nveh*State	Age*State*Year	
State	Speedzone*Age	State*Year*Nveh	
Year	Age*State	Speedzone*Year*Nveh	
	Age*Nveh	Age*Speedzone*State	
	State*Year	Sex*State*Nveh	
	Speedzone*Year		
	Age*Year		
	Year*Nveh		
	Speedzone*State		
	Speedzone*Sex		

The average injury severity for injured drivers in the data analysed was 20.73 deaths or serious injuries per 100 injured drivers. Appendix 3 gives the estimates of injury severity derived by logistic regression for 506 individual car models, or sets of combined models. Of the cars analysed, injury severity ranged from 5.01% for the 2004-2008 Ford Fiesta WP/WQ to 49.11% for the 1982-1984 Alfa Romeo GTV. An estimate of the variability in the estimates of injury severity was calculated from the width of the corresponding 95% confidence intervals. Individual confidence interval widths ranged from 1.83% for the 1982-1988 Ford Laser and Mazda 323 / Familia and 1989-1993 Holden Commodore VN/VP and Toyota Lexcen to 41.77% for the 1982-1991 Porsche 944.

The estimated injury severity for each market group is also given in Appendix 3. Medium sports utility vehicles performed best with respect to injury severity, having the lowest average injury severity of 19.36%. The light car market group had the highest average injury severity of 22.06%.

5.1.3 Crashworthiness Ratings

The crashworthiness ratings for each car model and market group were obtained by multiplying the individual injury risk and injury severity estimates. Because each of the two components had been adjusted for the confounding factors, the resultant crashworthiness rating was also adjusted for the influence of these factors.

Crashworthiness ratings were obtained for each individual model and market group after adjusting for the confounding factors. Appendix 4 gives the crashworthiness ratings and the associated 95% confidence intervals for each of the 506 car models included in the analyses. Appendix 4 also gives the crashworthiness ratings with 90% confidence limits for each of the 506 vehicle models. Each rating is expressed as a percentage, representing the number of drivers killed or admitted to hospital per 100 drivers involved in a tow-away crash. Overall ratings for the market groups are also given.

Each crashworthiness rating is an *estimate* of the true risk of a driver being killed or admitted to hospital in a tow-away crash and, as such, each estimate has a level of uncertainty about it. This uncertainty is indicated by the confidence limits in Appendix 4. There is 95% probability that the confidence interval will cover the true risk of serious injury (death or hospital admission) to the driver of the particular model of vehicle. Unlike in previous updates no ratings have been excluded at this stage as it was considered useful for consumer information to present them.

Table 3 gives a summary of the estimated ratings for each of the 10 defined vehicle market groups. It shows the estimated injury risk and severity components, and the resulting crashworthiness rating with upper and lower 95% confidence limits, and the width of the 95% confidence limit. The relative ranking of the crashworthiness rating on each market group is also given in Table 3 although this should be interpreted with care as there is not necessarily a statistically significant difference between the average crashworthiness of vehicle market groups with different rankings. Statistical significance in average crashworthiness between market groups at the 5% level is only achieved when the 95% confidence limits do not overlap. Similar comments apply to interpreting results in Appendix 4.

Table 3: *Estimated Vehicle Crashworthiness by Market Grouping*

Market Group	Injury Risk (%)	Injury Severity (%)	Crashworthiness Rating*	Overall rank order	Lower 95% Confidence limit	Upper 95% Confidence limit	Width of Confidence interval
Overall Average	**17.57**	**20.73**	**3.64**				
COMPACT SUV	17.92	19.67	3.53	5	3.40	3.66	0.31
MEDIUM SUV	14.07	19.36	2.72	1	2.59	2.86	0.32
LARGE SUV	13.09	21.14	2.77	2	2.67	2.87	0.24
COMERCIAL - VAN	18.45	21.01	3.88	7	3.72	4.04	0.39
COMERCIAL - UTE	16.09	20.96	3.37	3	3.30	3.45	0.18
LARGE	16.91	20.62	3.49	4	3.44	3.54	0.12
MEDIUM	18.24	20.43	3.73	6	3.66	3.79	0.15
PEOPLE MOVER	18.63	21.39	3.98	8	3.82	4.16	0.41
SMALL	20.64	20.78	4.29	9	4.23	4.35	0.15
LIGHT	23.44	22.06	5.17	10	5.07	5.28	0.25

* Serious injury rate per 100 drivers involved

5.1.4 Comparisons with the Benchmark Rating

In previous updates, ratings for individual vehicles were compared to an un-weighted numerical average of the vehicles for which a crashworthiness rating was calculated. For this update, a comparison was used which classifies vehicles according to where their rating lies in relation to a 'best performance' benchmark. The benchmark rating in this update was defined as the rating above which 10% of the rating point estimates were better (see Section 5.4). The point against which ratings for individual vehicles are compared is arbitrary, whether it is the average used in previous updates or the benchmark rating described above or some other point.

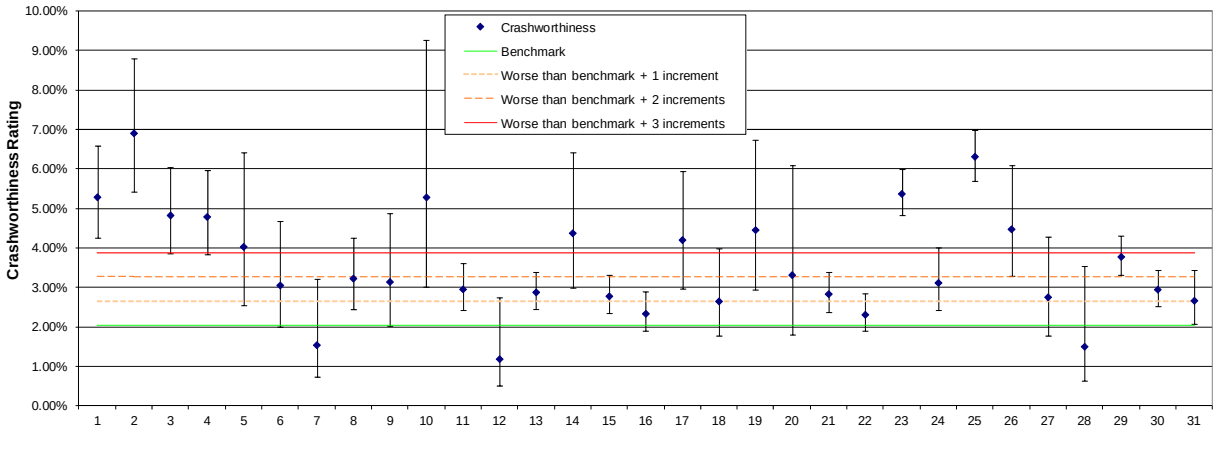
Classification categories are defined by distances away from this benchmark. The five categories were defined as follows.

- Equal to the benchmark.
- Worse than the benchmark.
- At least 30% worse than the benchmark.
- At least 60% worse than the benchmark.
- At least 90% worse than the benchmark.

Again this choice is arbitrary but should aim to spread the vehicles across the performance categories. Vehicles are classified into each category according to the band in which the lower confidence limit on the rating lies. Using only the lower confidence limit defines a true one-sided statistical test which is equal for each rating.

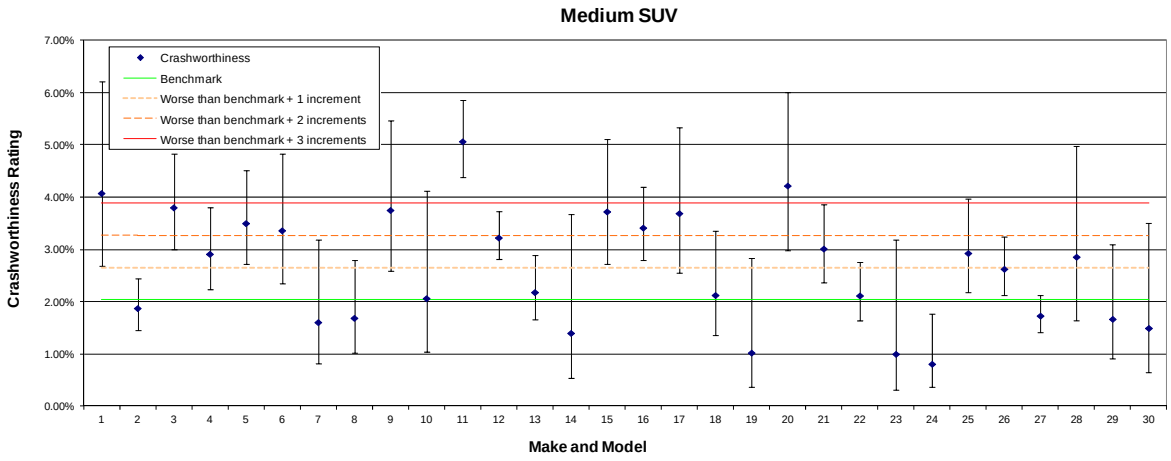
Figures 1 to 10 display for each of the market groups the crashworthiness ratings of vehicles together with their 90% confidence limits. Also displayed on each graph is a line representing the benchmark crashworthiness safety rating of 2.04% and three lines at 2.66%, 3.27% and 3.88% representing 30% worse than the benchmark, 60% worse than the benchmark and 90% worse than the benchmark respectively.

Figure 1: *Crashworthiness Ratings for Compact Sports Utility vehicles (with 90% confidence limits)*



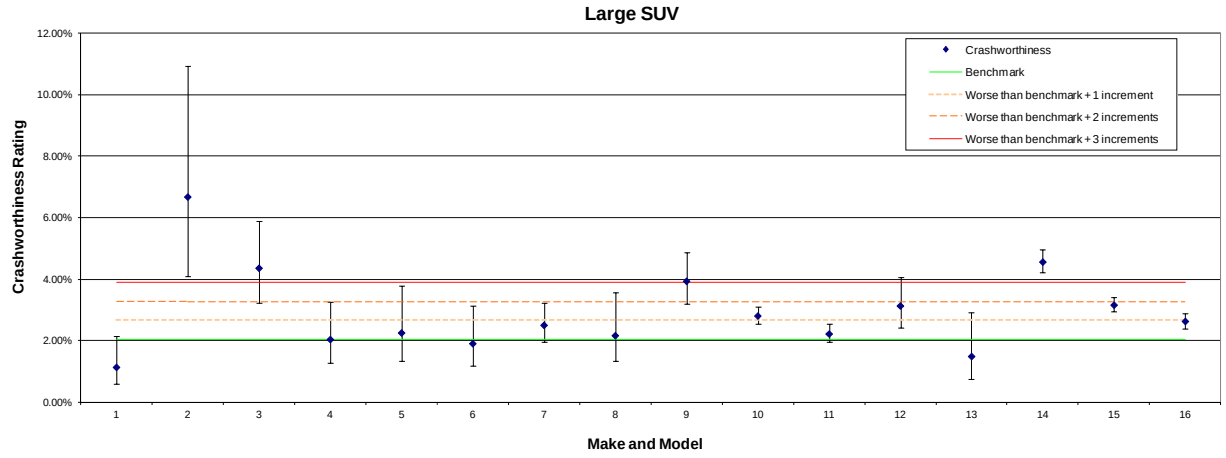
1	Daihatsu Feroza / Rocky 89-97	17	Honda HR-V 99-02
2	Daihatsu Rocky / Rugger 85-98	18	Honda CR-V 07-10
3	Daihatsu Terios 97-05	19	Land Rover Freelander 98-06
4	Holden Cruze 02-06	20	Subaru Forester 08-10
5	Hyundai Tucson 04-10	21	Subaru Forester 97-02
6	Mitsubishi Outlander 03-06	22	Subaru Forester 02-08
7	Mitsubishi / Peugeot Outlander / 4007 06-10	23	Suzuki Vitara / Escudo 88-98
8	Kia Sportage 98-03	24	Suzuki Grand Vitara 99-05
9	Kia Sorento 03-09	25	Holden / Suzuki Drover / Sierra / Samurai / SJ410 / SJ413 82-99
10	Kia Sportage KM 05-10	26	Suzuki Jimny 98-10
11	Ford / Mazda Escape / Tribute 01-06	27	Suzuki Grand Vitara 05-08
12	Mazda CX-7 06-10	28	Suzuki SX4 07-10
13	Nissan X-Trail 01-07	29	Toyota RAV4 94-00
14	Lada Niva 84-99	30	Toyota RAV4 01-06
15	Honda CR-V 97-01	31	Toyota RAV4 06-10
16	Honda CR-V 02-06		

Figure 2: *Crashworthiness Ratings for Medium Sports Utility vehicles (with 90% confidence limits)*



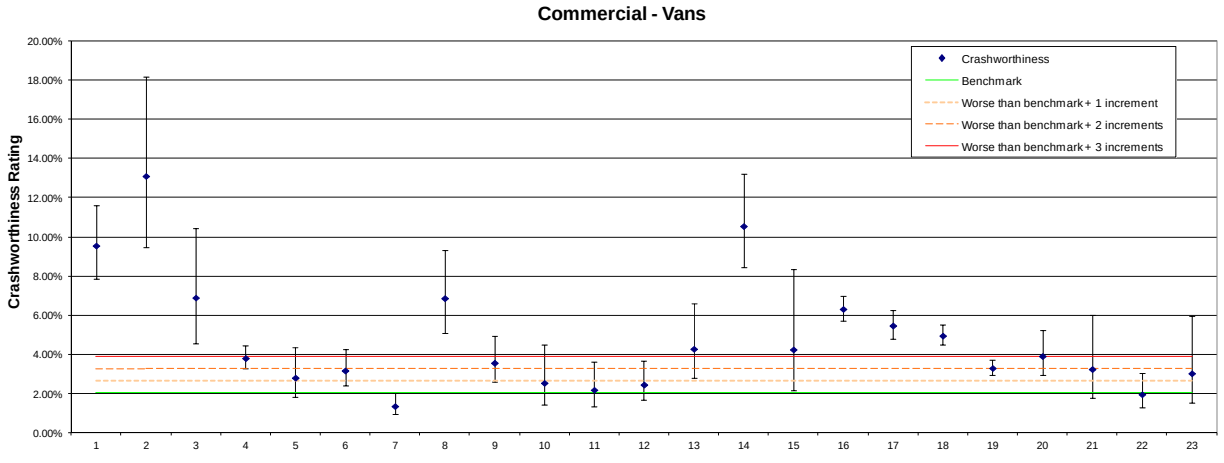
1	Daewoo / Ssangong Musso 98-02
2	Ford Territory SX/SY 04-10
3	Holden / Isuzu Jackaroo / Bighorn 82-91
4	Holden / Isuzu Jackaroo / Bighorn 92-97
5	Holden / Isuzu Jackaroo / Bighorn 98-02
6	Holden Frontera / Mu 95-03
7	Holden Adventra 03-06
8	Holden Captiva CG 06-10
9	Hyundai Santa Fe 00-06
10	Hyundai Terracan 01-07
11	Mitsubishi Pajero 82-90
12	Mitsubishi Pajero 92-99
13	Mitsubishi Pajero NM / NP / NS 00-06
14	Mitsubishi Pajero NM / NP / NS 07-10
15	Mitsubishi Challenger 98-06
16	Jeep Cherokee XJ 96-00
17	Jeep Wrangler 96-04
18	Jeep Cherokee KJ 01-07
19	Jeep Wrangler 05-10
20	Land Rover Defender 92-10
21	Nissan Pathfinder / Terrano 88-94
22	Nissan Pathfinder / Terrano / Regulus 95-05
23	Nissan Murano 05-08
24	Nissan Pathfinder 05-10
25	Toyota Kluger / Highlander 03-07
26	Toyota Landcruiser Prado 96-03
27	Toyota Landcruiser Prado 03-09
28	Lexus RX330 03-05
29	Toyota Kluger / Highlander 07-10
30	Volvo XC 90 03-10

Figure 3: *Crashworthiness Ratings for Large Sports Utility vehicles (with 90% confidence limits)*



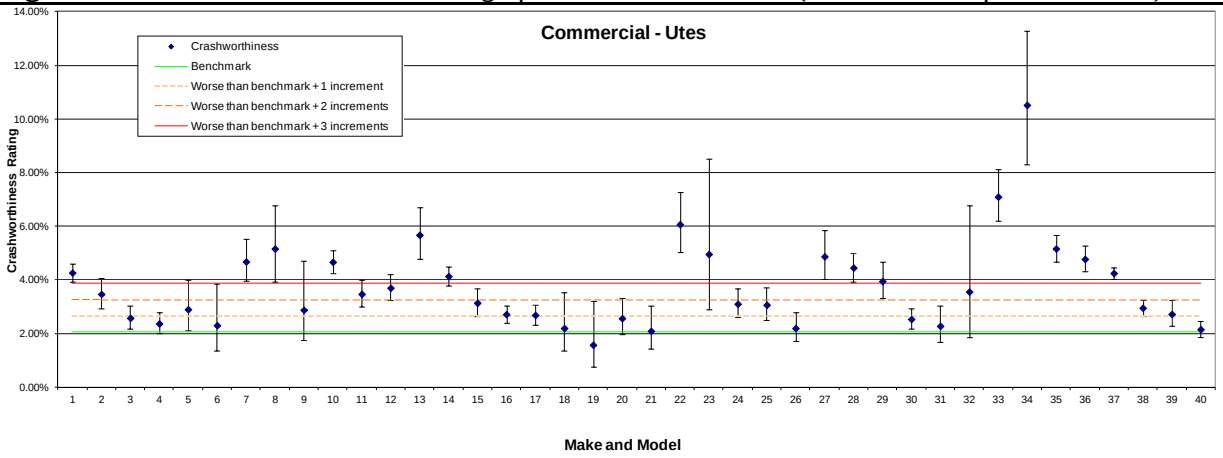
1	BMW X5 01-08
2	Ford Bronco 82-87
3	Ford Explorer 00-01
4	Ford Explorer 01-05
5	Jeep Grand Cherokee ZG 96-99
6	Jeep Grand Cherokee WG 99-05
7	Land Rover Discovery 91-02
8	Mercedes Benz M-Class W163 98-05
9	Nissan Patrol / Safari 82-87
10	Nissan / Ford Patrol / Maverick / Safari 88-97
11	Nissan Patrol / Safari 98-10
12	Land Rover Range Rover 82-94
13	Land Rover Range Rover 95-02
14	Toyota Landcruiser 82-89
15	Toyota Landcruiser 90-97
16	Toyota Landcruiser 98-07

Figure 4: *Crashworthiness Ratings for Commercial Vans (with 90% confidence limits)*



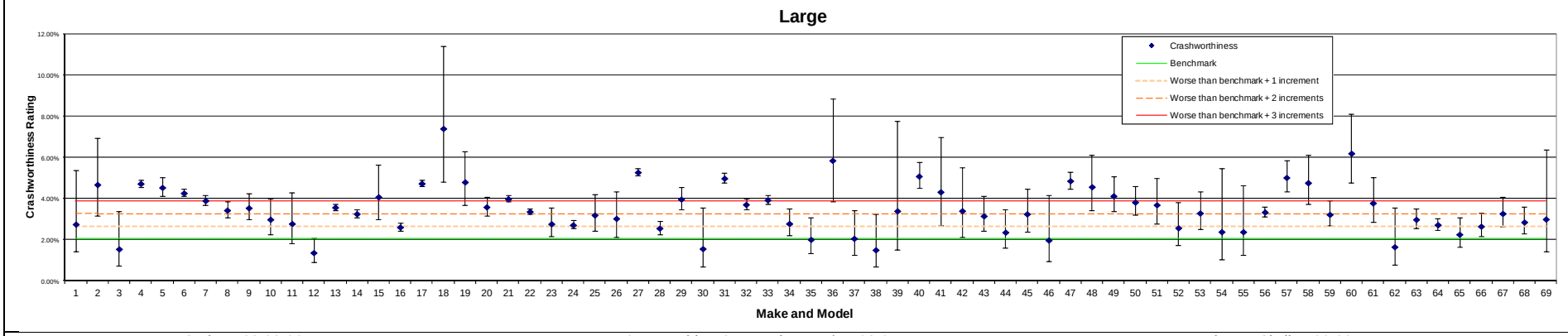
1 Daihatsu Handivan 82-90
2 Daihatsu Hi-Jet 82-90
3 Daihatsu Handivan / Cuore 99-03
4 Ford Falcon Panel Van 82-95
5 Ford Falcon Panel Van 96-99
6 Ford Transit 95-00
7 Ford Transit 01-07
8 Holden Shuttle / WFR Van 82-87
9 Kia Pregio 02-06
10 Mercedes Benz MB100 / MB140 99-04
11 Mercedes Benz Vito 99-04
12 Mercedes Benz Sprinter 98-06
13 Honda Acty 83-86
14 Holden / Suzuki Scurry / Carry 82-00
15 Suzuki Carry 99-05
16 Toyota Hiace/Liteace 82-86
17 Toyota Hiace/Liteace 87-89
18 Toyota Hiace/Liteace 90-95
19 Toyota Hiace/Liteace 96-04
20 Toyota Hiace 05-10
21 Volkswagen Caravelle / Transporter 88-94
22 Volkswagen Caravelle / Transporter 95-04
23 Volkswagen Caddy 05-10

Figure 5: *Crashworthiness Ratings for Commercial Utes (with 90% confidence limits)*



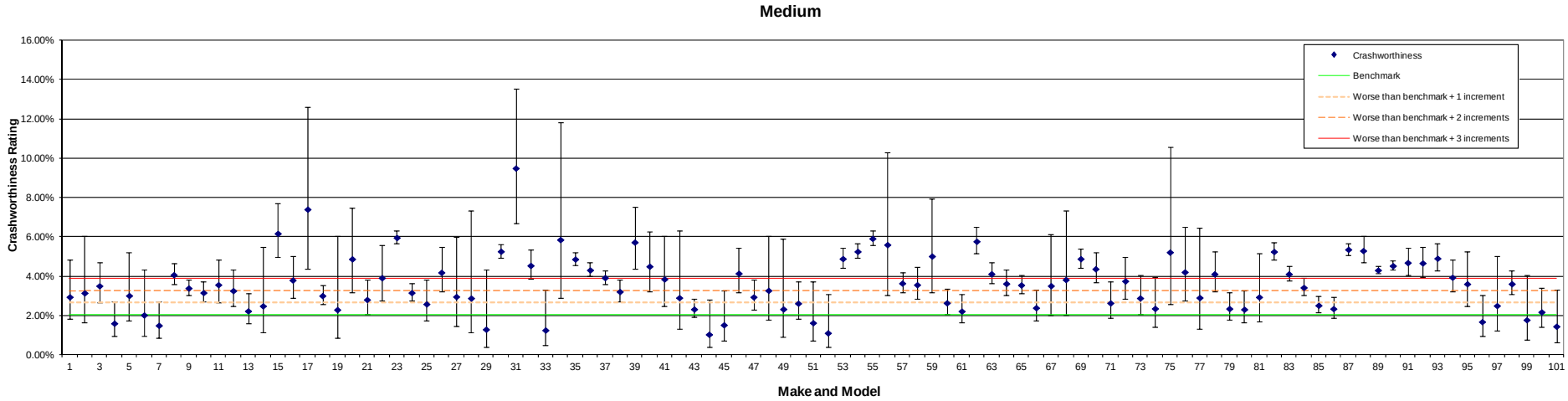
1 Ford / Nissan Falcon Ute / XFN Ute 82-95
2 Ford Falcon Ute 96-99
3 Ford Falcon Ute AU 00-02
4 Ford Falcon Ute BA/BF 03-08
5 Ford Ford F-Series 82-92
6 Ford F-Series 01-06
7 Holden Commodore Ute VG/VP 90-93
8 Holden / Isuzu Rodeo / Pickup 82-85
9 Holden / Isuzu Rodeo / Pickup 86-88
10 Holden / Isuzu Rodeo / Pickup 89-95
11 Holden Rodeo 96-98
12 Holden Rodeo 99-02
13 Holden WB Series 82-85
14 Holden Commodore Ute VR/VS 94-00
15 Holden Commodore VU Ute 00-02
16 Holden Commodore VY/VZ Ute 02-07
17 Holden Rodeo 03-08
18 Holden Commodore VE Ute 07-10
19 Holden Colorado RC 08-10
20 Mitsubishi Triton MK 96-06
21 Mitsubishi Triton ML / MN 06-10
22 Kia Ceres 92-00
23 Kia K2700 02-08
24 Ford / Mazda Courier / B-Series / Bounty 98-02
25 Ford / Mazda Courier / Bravo / Bounty 03-06
26 Ford / Mazda Ranger / BT-50 06-10
27 Nissan 720 Ute 82-85
28 Nissan Navara 86-91
29 Nissan Navara 92-96
30 Nissan Navara 97-05
31 Nissan Navara 05-10
32 Proton Jumbuck 03-10
33 Subaru Brumby 82-92
34 Suzuki Mighty Boy 85-88
35 Toyota 4Runner/Hilux 82-85
36 Toyota 4Runner/Hilux 86-88
37 Toyota 4Runner/Hilux 89-97
38 Toyota Hilux 98-02
39 Toyota Hilux 03-04
40 Toyota Hilux 05-10

Figure 6: *Crashworthiness Ratings for Large cars (with 90% confidence limits)*



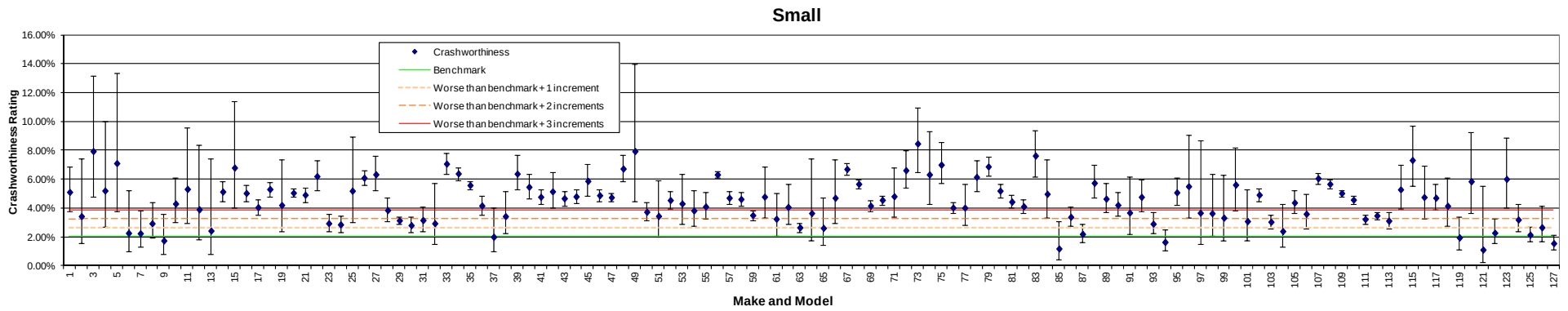
1	BMW 7 Series E23 82-86	24	Holden Commodore VY/VZ 02-07	47	Nissan Skyline 83-88
2	BMW 7 Series E32 87-94	25	Holden Monaro 01-05	48	Nissan 300ZX / Fairlady Z 90-95
3	BMW 7 Series E38 95-01	26	Holden Statesman/Caprice WK/WL 03-06	49	Nissan Maxima 90-94
4	Ford Falcon XE/XF 82-88	27	Holden Commodore VB-VL 82-88	50	Nissan Maxima / Cefiro 95-99
5	Ford Fairlane Z & LTD F 82-87	28	Holden Commodore VE 06-10	51	Nissan Maxima 00-02
6	Ford Falcon EA / Falcon EB Series I 88-Mar 92	29	Hyundai Sonata 89-97	52	Nissan Maxima 06-09
7	Ford Falcon EB Series II / Falcon ED Apr 92-94	30	Hyundai Grandeaur / XG 99-00	53	Honda Legend 86-95
8	Ford Fairlane N & LTD D 88-94	31	Mitsubishi Magna TM/TN/TP / Sigma / V3000 85-90	54	Rover 3500 82-87
9	Ford Fairlane N & LTD D 95-98	32	Mitsubishi Magna TE/TF/TH/TJ / Verada KE/KF/KH/KJ / Diamante 96-03	55	Saab 9-5 98-05
10	Ford Fairlane & LTD AU 99-02	33	Mitsubishi Magna TR/TS / Verada KR/KS / V3000 / Diamante 91-96	56	Toyota Camry 98-02
11	Ford Fairlane & LTD BA/BF 03-07	34	Mitsubishi Magna TL/TW / Verada KL/KW 03-05	57	Toyota Crown / Cressida / Mark II 82-85
12	Ford Falcon FG 08-10	35	Mitsubishi 380 05-08	58	Toyota Crown / Cressida / Mark II 86-88
13	Ford Falcon EF/EL 94-98	36	Jaguar XJ6 82-86	59	Toyota Cressida / Mark II 89-93
14	Ford Falcon AU 98-02	37	Jaguar XJ6 87-94	60	Toyota Supra 82-90
15	Ford Taurus 96-98	38	Jaguar S-Type 99-08	61	Lexus ES300 / Windom 92-01
16	Ford Falcon BA/BF 02-08	39	Kia Optima 01-06	62	Lexus LS400 / Celsior 90-00
17	Holden / Toyota Commodore VN/VP / Lexcen 89-93	40	Mazda 929 / Luce 82-90	63	Toyota Avalon 00-05
18	Holden Statesman/Caprice WB 82-85	41	Mazda 929 / Sentia / Efini MS-9 92-96	64	Toyota Camry 02-06
19	Holden Stateman/Caprice VQ 90-93	42	Mercedes Benz E-Class W123 82-85	65	Toyota Aurion 06-10
20	Holden Stateman/Caprice VR/VS 94-98	43	Mercedes Benz E-Class W124 86-94	66	Toyota Camry 06-10
21	Holden / Toyota Commodore VR/VS / Lexcen 93-97	44	Mercedes Benz E-Class W210 96-02	67	Volvo 850/S70/V70/C70 92-99
22	Holden Commodore VT/VX 97-02	45	Mercedes Benz S-Class W126 82-92	68	Volvo 700/900 Series 84-92
23	Holden Statesman/Caprice WH 99-03	46	Mercedes Benz E-Class W211 02-09	69	Volvo 960/S90/V90 90-98

Figure 7: *Crashworthiness Ratings for Medium cars (with 90% confidence limits)*



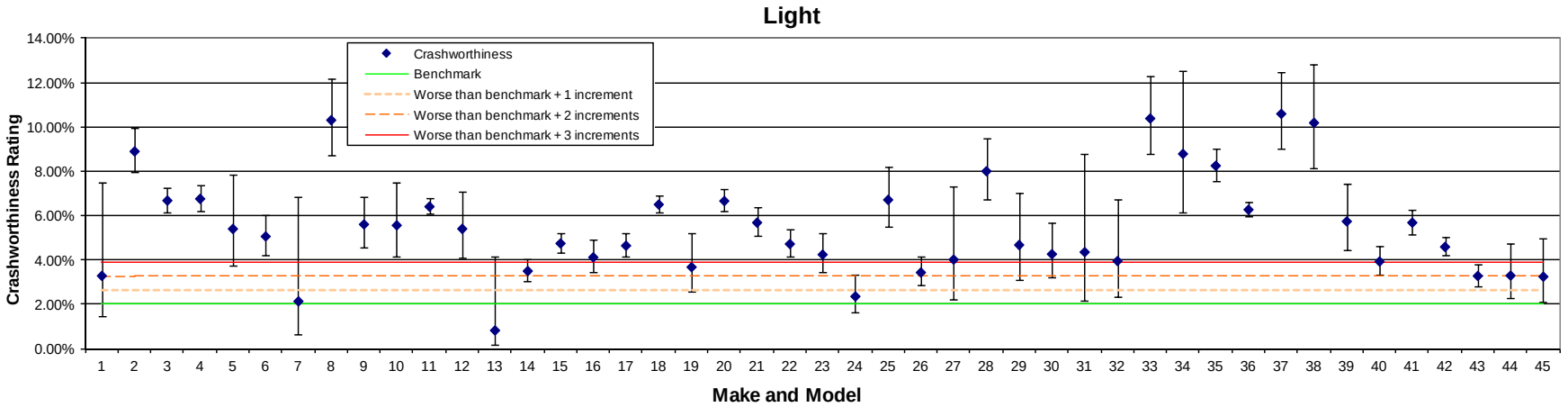
1	Alfa Romeo 156 99-06	27	Hyundai Sonata EF 02-05	52	Mercedes Benz C-Class W204 07-10	77	Rover 75 01-05
2	Alfa Romeo 147 / GT 01-10	28	Hyundai Tiburon 02-10	53	Nissan Pintara 86-88	78	Saab 900 Series 82-92
3	Audi A4 95-01	29	Hyundai Sonata NF 05-10	54	Nissan / Ford Pintara / Corsair / Bluebird 89-92	79	Saab 900/9-3 94-02
4	Audi A4 01-08	30	Mitsubishi Sigma / Galant / Sapporo / Lambda 82-84	55	Nissan Bluebird 82-86	80	Saab 9000 86-97
5	BMW Z3 E36 97-03	31	Mitsubishi Starion 82-87	56	Nissan 280ZX 82-84	81	Saab 9-3 03-10
6	BMW 5 Series E60 / E61 03-10	32	Mitsubishi Galant 95-96	57	Nissan Bluebird 93-97	82	Subaru 1800 / Leone / Omega / 4WD Wagon 82-93
7	BMW 3 Series E90 /E91 /E92 /E93 05-10	33	Jaguar X-Type 02-10	58	Nissan 200SX / Silvia 94-02	83	Subaru Liberty / Legacy 89-93
8	BMW 3 Series E30 82-91	34	Kia Credos 98-01	59	Nissan 350Z 03-09	84	Subaru Liberty / Legacy / Outback 94-98
9	BMW 3 Series E36 92-98	35	Ford / Mazda Telstar / 626 / MX6 / Capella 83-86	60	Honda Accord Euro 03-08	85	Subaru Liberty / Legacy / Outback 99-03
10	BMW 3 Series E46 99-06	36	Ford / Mazda Telstar / 626 / MX6 / Capella 88-91	61	Honda Accord 03-07	86	Subaru Liberty / Legacy / Outback 03-09
11	BMW 5 Series E28 82-88	37	Ford / Mazda Telstar / 626 / MX6 / Capella / Cronos 92-97	62	Honda Accord 82-85	87	Toyota Corona 82-88
12	BMW 5 Series E34 89-95	38	Mazda 626 98-02	63	Honda Accord 86-90	88	Toyota Camry 83-86
13	BMW 5 Series E39 96-03	39	Mazda RX7 82-85	64	Honda Accord 91-93	89	Holden / Toyota Apollo JK/JL / Camry / Vista 88-92
14	Chrysler PT Cruiser 00-10	40	Mazda RX7 86-91	65	Honda Accord 94-98	90	Holden / Toyota Apollo JM/JP / Camry / Sceptor 93-97
15	Daewoo Espero 95-97	41	Mazda Eunos 500 93-99	66	Honda Accord 99-02	91	Toyota Celica 81-85
16	Daewoo Leganza 97-02	42	Mazda Eunos 800 94-00	67	Honda Accord 08-10	92	Toyota Celica 86-89
17	Daewoo Tacuma 00-04	43	Mazda 6 02-07	68	Honda Prelude 82-82	93	Toyota Celica 90-93
18	Ford Mondeo 95-01	44	Mazda RX-8 03-10	69	Honda Prelude 83-91	94	Toyota Celica 94-99
19	Ford Mondeo 07-10	45	Mazda 6 08-10	70	Honda Prelude 92-96	95	Toyota Celica 00-05
20	Ford Probe 94-98	46	Mercedes Benz C-Class W201 87-93	71	Honda Prelude 97-02	96	Lexus IS200 / IS300 99-04
21	Ford Cougar 99-03	47	Mercedes Benz C-Class W202 95-00	72	Peugeot 405 89-97	97	Lexus IS350 / IS250 / IS F 05-10
22	Holden Calibra 94-97	48	Mercedes Benz CLK C208 97-03	73	Peugeot 505 82-93	98	Volvo 200 Series 82-93
23	Holden Camira 82-89	49	Mercedes Benz SLK R170 97-04	74	Peugeot 406 96-04	99	Volvo S60 01-09
24	Holden Vectra 97-03	50	Mercedes Benz C-Class W203 00-07	75	Porsche 944 82-91	100	Volkswagen Passat 98-06
25	Holden Vectra ZC 03-05	51	Mercedes Benz CLK C209 03-09	76	Renault Feugo 82-87	101	Volkswagen Passat 06-10
26	Hyundai Sonata 98-01						

Figure 8: *Crashworthiness Ratings for Small cars (with 90% confidence limits)*



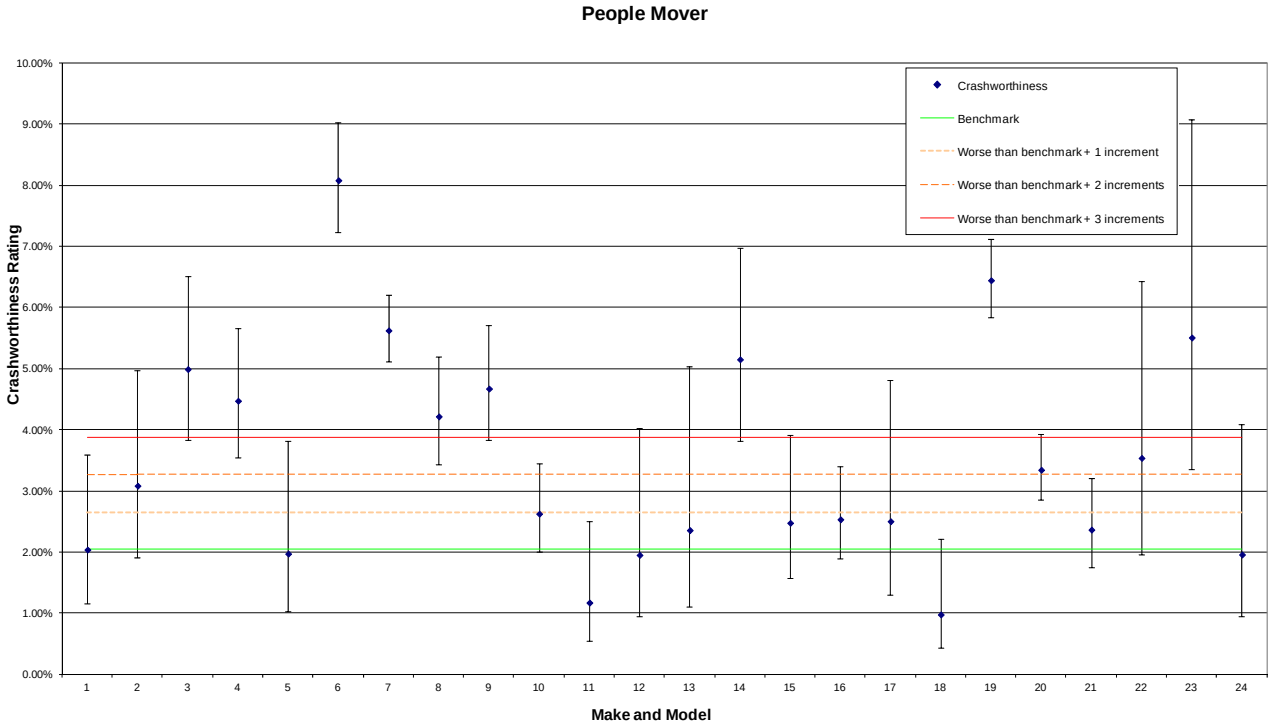
1	Alfa Romeo 33 83-92	33	Hyundai Excel 86-90	65	Mazda 3 / Axela 09-10	97	Renault Megane II 03-10
2	Alfa Romeo 75 86-92	34	Hyundai Excel 90-94	66	Mercedes Benz A-Class W168 98-04	98	Renault 19 91-96
3	Alfa Romeo GTV 82-84	35	Hyundai Excel / Accent 95-00	67	Holden / Nissan Astra / Pulsar / Langley 84-86	99	Renault Scenic 01-04
4	Alfa Romeo Sprint 82-88	36	Hyundai Elantra 00-06	68	Holden / Nissan Astra / Pulsar / Vector / Sentra 88-90	100	Rover Quintet 82-86
5	Alfa Romeo Alfasud 82-84	37	Hyundai Accent 06-10	69	Nissan Pulsar / Vector / Sentra 92-95	101	MG MGF / MG TF 99-05
6	Audi A3 04-09	38	Hyundai i30 07-10	70	Nissan Pulsar / Vector / Sentra 96-99	102	Subaru Impreza 93-00
7	Audi A3/S3 97-04	39	Hyundai S Coupe 90-96	71	Nissan Stanza 82-83	103	Subaru Impreza 01-07
8	Mini Mini Cooper 02-10	40	Hyundai Lantra 91-95	72	Nissan Gazelle / Silvia 84-86	104	Subaru Impreza 07-10
9	BMW 1 Series E81 / E82 / E87 / E88 04-10	41	Hyundai Lantra 96-00	73	Nissan Exa 83-86	105	Suzuki Baleno / Cultus Crescent 95-02
10	Chrysler Neon 96-99	42	Hyundai Coupe 96-00	74	Nissan Exa 87-91	106	Suzuki Liana 01-07
11	Chrysler Neon 00-02	43	Hyundai Accent 00-06	75	Nissan NX/NX-R 91-96	107	Toyota Corolla 82-84
12	Citroen C4 05-10	44	Mitsubishi Lancer / Mirage CA 89-90	76	Nissan Pulsar 00-05	108	Toyota Corolla 86-88
13	Citroen Xsara 00-05	45	Mitsubishi Lancer / Mirage CB 91-92	77	Nissan Tiida 06-10	109	Toyota / Holden Corolla / Nova 89-93
14	Daihatsu Applause 89-99	46	Mitsubishi Lancer / Mirage CC 93-95	78	Honda Civic 82-83	110	Toyota / Holden Corolla / Nova 94-97
15	Daewoo 1.5i 94-95	47	Mitsubishi Lancer / Mirage CE 96-03	79	Honda Civic / Ballade / Shuttle 84-87	111	Toyota Corolla / Allex 98-01
16	Daewoo Cielo 95-97	48	Mitsubishi Cordia 83-87	80	Honda Civic / Shuttle 88-91	112	Toyota Corolla 02-07
17	Daewoo Nubira 97-03	49	Mitsubishi Lancer CE / CG / Cedia 02-03	81	Honda Civic 92-95	113	Toyota Corolla 07-10
18	Daewoo Lanos 97-03	50	Mitsubishi Lancer CH 03-07	82	Honda Civic 96-00	114	Toyota Tercel 83-88
19	Daewoo Lacetti 03-04	51	Mitsubishi Lancer CJ 08-10	83	Honda CRX 87-91	115	Toyota MR2 87-90
20	Ford Laser 91-94	52	Kia Rio 00-05	84	Honda CRX 92-98	116	Toyota MR2 91-00
21	Ford Laser 95-97	53	Kia Spectra 01-04	85	Honda S2000 99-09	117	Toyota Paseo / Cynos 91-99
22	Ford Capri 89-94	54	Kia Cerato LD 04-08	86	Honda Civic 01-05	118	Toyota Corolla 4WD Wagon 92-96
23	Ford Focus LR 02-05	55	Kia Rio JB 05-10	87	Honda Civic 06-10	119	Toyota Prius II 03-09
24	Ford Focus LS / LT 05-09	56	Ford / Mazda Laser / 323 / Familia 82-88	88	Honda Integra 86-88	120	Volvo 300 Series 84-88
25	Fiat Regata 84-88	57	Mazda 323 / Familia / Lantis 90-93	89	Honda Integra 90-92	121	Volvo S40/V50 04-10
26	Holden Gemini 82-84	58	Mazda 323 / Familia / Lantis 95-98	90	Honda Integra 93-01	122	Volvo S40/V40 97-04
27	Holden Gemini RB 86-87	59	Ford / Mazda Laser / 323 99-03	91	Honda Integra 02-06	123	Volkswagen Golf 82-94
28	Holden Astra TR 96-98	60	Mazda MX5 / Eunos Roadster 89-97	92	Honda Concerto 89-93	124	Volkswagen Golf 95-98
29	Holden Astra TS 98-06	61	Mazda MX5 / Eunos Roadster 98-05	93	Peugeot 306 94-01	125	Volkswagen Golf / Bora 99-04
30	Holden Astra AH 04-09	62	Mazda Eunos 30X / Presso / MX-3 / Autozam AZ-3 90-97	94	Peugeot 307 01-09	126	Volkswagen New Beetle 00-10
31	Holden Viva JF 05-09	63	Mazda 3 / Axela 03-09	95	Proton Wira 95-96	127	Volkswagen Golf / Jetta 04-10
32	Holden Cruze JG 09-10	64	Mazda MX-5 05-10	96	Proton Gen 2 04-10		

Figure 9: *Crashworthiness Ratings for Light cars (with 90% confidence limits)*



1	Citroen C3 02-10	16	Holden Barina TK 05-10	31	Proton Satria 97-05
2	Daihatsu Charade 82-86	17	Hyundai Getz / TB 02-10	32	Renault Clio 01-08
3	Daihatsu Charade 88-92	18	Mitsubishi Mirage / Colt 82-88	33	Subaru Sherpa / Fiori / 700 / Rex 89-92
4	Daihatsu Charade 93-00	19	Mitsubishi Colt 04-10	34	Suzuki Swift 82-85
5	Daihatsu Pyzar 97-01	20	Ford / Mazda Festiva WA / 121 87-90	35	Holden / Suzuki Barina / Swift / Cultus 86-88
6	Daihatsu Sirion / Storia 98-04	21	Mazda 121 / Autozam Review 94-96	36	Holden / Suzuki Barina / Swift / Cultus 89-99
7	Daihatsu Charade 03-05	22	Mazda 121 Metro / Demio 97-02	37	Suzuki Hatch / Alto 82-84
8	Daihatsu Mira 90-96	23	Mazda 2 02-07	38	Suzuki Alto 85-00
9	Daewoo Matiz 99-04	24	Mazda 2 07-10	39	Suzuki Ignis 00-02
10	Daewoo Kalos 03-04	25	Nissan Micra 95-97	40	Suzuki Swift 05-10
11	Ford Festiva WD/WH/WF 94-01	26	Honda Jazz / Fit 02-08	41	Toyota Starlet 96-99
12	Ford Ka 99-02	27	Honda Jazz GE 08-10	42	Toyota Echo 99-05
13	Ford Fiesta WP/WQ 04-08	28	Honda City 83-86	43	Toyota Yaris 05-10
14	Holden Barina XC 01-06	29	Peugeot 205 87-94	44	Volkswagen Polo 96-00
15	Holden Barina SB 95-00	30	Peugeot 206 99-07	45	Volkswagen Polo 02-10

Figure 10: *Crashworthiness Ratings for People Movers (with 90% confidence limits)*



1	Chrysler Voyager 97-01
2	Holden Zafira TT 01-05
3	Mitsubishi Nimbus / Chariot / Spacewagon 85-91
4	Mitsubishi Nimbus / Chariot 92-98
5	Mitsubishi Nimbus 99-03
6	Mitsubishi Starwagon / L300 83-86
7	Mitsubishi Starwagon / Delica Starwagon 87-93
8	Mitsubishi Starwagon / Delica Spacegear 95-98
9	Mitsubishi Starwagon / Delica Spacegear 98-03
10	Kia Carnival 99-06
11	Kia Carnival 06-10
12	Mazda MPV 94-99
13	Mazda MPV 00-06
14	Nissan Prairie 84-86
15	Nissan Serena 92-95
16	Honda Odyssey 95-00
17	Honda Odyssey 00-02
18	Honda Odyssey 04-09
19	Toyota Tarago 83-89
20	Toyota Tarago / Previa / Estima 91-99
21	Toyota Tarago / Previa / Estima 00-06
22	Toyota Spacia 93-00
23	Toyota Avensis Verso 01-10
24	Toyota Tarago 06-10

5.2 Aggressivity

5.2.1 Aggressivity towards Other Car Drivers and Unprotected Road Users

Using the methods described in Section 4.2, logistic regression models of the injury risk and injury severity of the focus road user were built separately as functions of both vehicle model and market group of the focus vehicle colliding with the other road user whose injury outcome is being modelled. Variations in the other factors listed in Section 4.2, including other road user type, were adjusted in the model by including them as predictors in the logistic regression models along with the focus vehicle model or market group. The aggressivity injury risk measure is based only on the injury outcome to drivers of other vehicles.

The logistic regression models of aggressivity injury risk showed the following non-vehicle factors and their interactions to be statistically significant predictors of injury risk (factors age and sex refer to focus driver whose injury outcome is being modelled). The average aggressivity injury risk in the data was 15.97%.

Base effect terms	First order interactions	Second order interaction
Sex	Sex*Year	Speedzone*State*Year
Speedzone	Age*Speedzone	Sex*Speedzone*State
Age	Age*Sex	Age*Speedzone*State
State	Age*Year	
Year	Speedzone*Year	
	Speedzone*State	
	Age*State	
	State*Year	
	Sex*State	
	Sex*Speedzone	

The logistic regression models of aggressivity injury severity users showed the following non-vehicle factors and their interactions to be statistically significant predictors of injury severity. These factors were included in the logistic model (factors age and sex refer to the age and sex of the other driver or unprotected road user). The average aggressivity injury severity in the data was 22.55%.

Base effect terms	First order interactions	Second order interaction
Sex	Sex*State	Speedzone*State*Crashtype
Speedzone	Sex*Crashtype	Speedzone*State*Year
Age	Age*Sex	Age*State*Crashtype
State	Age*Crashtype	Speedzone*Year*Crashtype
Year	Year*Crashtype	Sex*State*Crashtype
Crashtype	Speedzone*State	Sex*Year*Crashtype
	Age*State	
	State*Crashtype	
	State*Year	
	Speedzone*Year	
	Speedzone*Crashtype	
	Sex*Year	

Final estimates of vehicle aggressivity towards other road users were obtained by multiplying the estimated injury risk and injury severity components for each vehicle. Confidence limits on each of the estimated aggressivity ratings were calculated. The average aggressivity rating in the data, used for comparisons against aggressivity of individual vehicle models was 3.73%.

Aggressivity ratings were obtained for 458 different vehicle models that satisfied the inclusion criteria for analysis. The estimated aggressivity ratings and their injury risk and injury severity components for individual vehicle models are given in Appendix 5 along with (95% confidence limits on the estimated aggressivity ratings.

Table 4 summarises the estimated injury risk, injury severity and aggressivity ratings by the 10 broad market groups along with the estimated 95% confidence limits on the aggressivity ratings. The estimated aggressivity rating is the expected number of road users killed or seriously injured per 100 involved in two-car tow-away collisions where their vehicle impacts with one of the designated models or market groups. Table 4 shows large sports utility vehicles to be the most aggressive towards drivers of other vehicles, with an average of 5.21 unprotected road users or drivers being killed or seriously injured for every 100 tow-away crashes with a large sports utility vehicle. Similarly, Table 4 shows light cars to be the least aggressive towards unprotected road users or drivers of other vehicles, with an average aggressivity rating of 2.35.

Table 4: *Estimated Vehicle Aggressivity towards Other Drivers and Unprotected Road Users by Market Grouping*

Market Group	Other Driver Injury Risk (%)	Other Driver Injury Severity (%)	Aggressivity Rating *	Overall rank order	Lower 95% Confidence limit	Upper 95% Confidence limit	Width of Confidence interval
Overall Average	**15.97**	**22.55**	**3.60**				
COMPACT SUV	14.88	21.73	3.23	4	3.06	3.41	0.35
MEDIUM SUV	17.96	23.51	4.22	8	3.99	4.46	0.47
LARGE SUV	19.75	26.39	5.21	10	5.02	5.42	0.40
COMERCIAL - VAN	19.33	24.15	4.67	9	4.45	4.90	0.45
COMERCIAL - UTE	17.37	24.27	4.22	7	4.10	4.34	0.24
LARGE	15.74	21.95	3.46	5	3.39	3.52	0.13
MEDIUM	14.43	21.17	3.05	3	2.98	3.13	0.14
PEOPLE MOVER	17.13	22.58	3.87	6	3.66	4.09	0.43
SMALL	12.87	20.46	2.63	2	2.58	2.69	0.11
LIGHT	11.88	19.79	2.35	1	2.27	2.44	0.17

* Serious injury rate per 100 drivers of other vehicles and unprotected road users involved in collisions with vehicles from the given market group

Appendix 5 shows the estimated aggressivity ratings towards drivers of other vehicles and unprotected road users for the 458 individual vehicle models rated. Ratings ranged from a minimum of 1.30 serious injuries per 100 crashes for the 1998-2005 Mazda MX5 / Eunos Roadster to a maximum of 8.30 serious injuries per 100 crashes for the 1982-1985 Holden Statesman/Caprice WB.

5.2.2 Comparisons with the Benchmark Rating

As for the crashworthiness rating, a rating presentation was used which classifies vehicles according to where their aggressivity rating lies in relation to a best performance benchmark. The benchmark rating in this update was defined as the rating above which 10% of the rating point estimates were better (see Section 5.4). The point against which ratings for individual vehicles are compared is arbitrary, whether it is the average used in previous updates or the benchmark rating described above or some other point.

Classification categories are defined by distances away from this benchmark. The five categories were defined as follows.

- Equal to the benchmark.
- Worse than the benchmark.
- At least 20% worse than the benchmark.
- At least 40% worse than the benchmark.
- At least 60% worse than the benchmark.

Again this choice is arbitrary but should aim to spread the vehicles across the performance categories. Vehicles are classified into each category according to the band in which the lower confidence limit on the rating lies. Using only the lower confidence limit defines a true one-sided statistical test which is equal for each rating. Aggressivity ratings are shown by presentation category in Appendix 7.

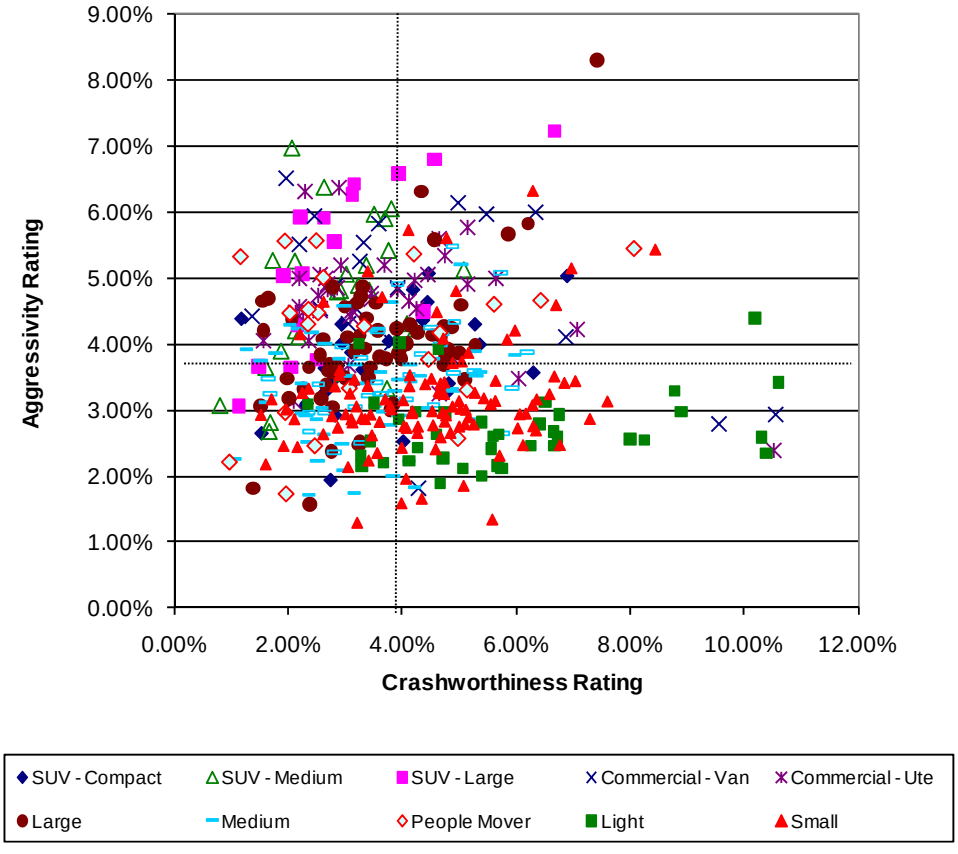
5.2.3 Relationship between Aggressivity and Crashworthiness

In assessing the British vehicle safety indices, Broughton (1996) found a strong inverse relationship between the indices for crashworthiness and aggressivity. Figure 21 shows the aggressivity measure plotted against crashworthiness for those vehicle models with both ratings. As Figure 21 shows, the

inverse relationship between the two measures is not particularly strong. The dotted lines in Figure 21 represent the average aggressivity and crashworthiness of the vehicles assessed. Points in the lower left quadrant defined by the dotted lines represent vehicles with relatively low aggressivity as well as good (low) estimated crashworthiness. This area is populated by a number of small and medium vehicle models as well as some compact SUVs. In contrast, vehicle models in the upper right quadrant of Figure 21 defined by the dotted lines show relatively poor crashworthiness and high aggressivity. There are a number of commercial vans and utilities in this quadrant along with some small vehicle models, people movers and compact SUVs. The remaining two quadrants are populated with vehicles that only perform well on either crashworthiness or aggressivity measures. Light cars tend to have low aggressivity but also poor crashworthiness whilst large and medium SUVs tend to exhibit converse traits.

Absence of a strong relationship between the measures of aggressivity and crashworthiness confirms that the two quantities considered here are measuring two different aspects of a vehicle's safety performance. Whilst one would expect some relationship between the two measures given their common but opposite relationships with mass (Broughton, 1996; Cameron et al 1998), the lack of a strong relationship suggests vehicle mass is only playing a small part in aggressivity rating relative to vehicle total safety design. The independence of these two measures does not seem to have been achieved to the same degree under other systems (Broughton, 1996).

Figure 21: *Estimated Vehicle Aggressivity towards Other Drivers and Unprotected Road Users vs. Crashworthiness Rating*



5.3 Vehicle Total Secondary Safety Rating

5.3.1 Injury Risk

Total secondary safety injury risk was estimated from the data on 4,150,305 road users involved in tow-away crashes in New South Wales, Queensland, South Australia and Western Australia during

1987-2010 (as described in Section 2). This data set is referred to as the "involved road users". Because of missing values in one or more of the covariates road user sex and age, speed zone and number of vehicles involved in the crash amongst the involved road users and vehicle models of interest, the final file used for analysis consisted of the 3,258,707 road users for which all the covariate data was complete. Of these road users 555,187 were injured. The "covariate" model for injury risk was determined from the variables described in Section 4.3.

The following terms were significantly associated with injury risk and were included in the logistic model:

Base effect terms	First order interactions	Second order interactions	Third order interactions
Sex	Speedzone*Crashtyp	Speedzone*State*Crashtyp	Sex*State*Year*Crashtyp
Speedzone	Sex*Age	Age*State*Crashtyp	Speedzone*State*Year*Crashtyp
Age	State*Year	Sex*State*Year	Age*Speedzone*State*Crashtyp
State	Sex*Speedzone	Sex*State*Crashtyp	Age*Sex*Speedzone*State
Year (of crash)	Age*State	Speedzone*State*Year	Sex*Speedzone*State*Crashtyp
Crashtyp	Age*Crashtyp	Age*Speedzone*State	Age*Sex*State*Crashtyp
	Speedzone*State	Age*Speedzone*Year	
	Sex*Crashtyp	Sex*Speedzone*Crashtyp	
	State*Crashtyp	Sex*Year*Crashtyp	
	Age*Speedzone	State*Year*Crashtyp	
	Sex*State	Age*State*Year	
	Age*Year	Age*Speedzone*Crashtyp	
	Sex*Year	Speedzone*Y ear*Crashtyp	
	Speedzone*Year	Age*Sex*Crashtyp	
	Year*Crashtyp	Age*Sex* Speedzone	
		Sex*Speedzone*Year	
		Age*Sex*State	
		Sex*Speedzone*State	

No other term significantly improved the fit of the logistic model.

The overall (average) injury risk for light vehicle drivers or unprotected road users involved in tow-away crashes in NSW, Western Australia and Queensland was 17.04 per 100 involved. In other words, the average probability that a light vehicle driver or unprotected road user was injured in a tow-away crash involving a light passenger vehicle in NSW, Western Australia or Queensland was 17.04%.

Appendix 6 gives the estimates of total secondary safety injury risk derived by logistic regression for 564 individual car models. Injury risk ranged from 6.69% for the 1986-1994 Citroen BX to 35.16% for the 1982-1990 Daihatsu Hi Jet.

An estimate of the variability in the injury risk estimates was calculated from the width of the corresponding 95% confidence intervals. Individual confidence interval widths ranged from 0.57% for the 1993-1997 Holden Commodore VR/VS and Toyota Lexcen to 17.49% for the 1986-1990 Ford Spectron. The small variability for the Commodore/Toyota VR/VS/Lexcen sedans is not surprising since there were more cars of these models than any others in the data set and precision is known to improve with increasing sample size.

The estimated injury risk for each market group is also given in Appendix 6. The medium sports utility market group had the lowest injury risk (15.39%) and the light car market group had the highest (19.20%).

5.3.2 Injury Severity

The data on "injured road users" covered 972,295 road users of 1982-2010 model vehicles who were injured in crashes in Victoria, New South Wales, Western Australia, Queensland, South Australia or New Zealand during 1987-2010 (as described in Section 2). Because of missing values in one or more of the covariates amongst the injured road users, the final file used for analysis consisted of the 712,658 road users for which all the covariate data was complete. Of these road users 152,639 were seriously injured. The "covariate" model for injury severity was determined from the variables described in Section 4.3.

The following terms were significantly associated with injury severity and were included in the logistic model:

Base effect terms	First order interactions	Second order interaction	Third order interaction
Sex	Age*Sex	Speedzone*State*Year	Speedzone*State*Year*Crashtyp
Speedzone	Age*Crashtype	State*Year*Crashtype	
Age	Speedzone*State	Age*State*Year	
State	Age*State	Speedzone*State*Crashtype	
Year	State*Year	Age*State*Crashtyp	
Crashtype	Speedzone*Year	Sex*State*Crashtyp	
	Speedzone*Crashtype	Age*Speedzone*State	
	Sex*State	Speedzone*Year*Crashtyp	
	Age*Year		
	Year*Crashtype		
	State*Crashtype		
	Sex*Crashtype		
	Age*Speedzone		

No other term significantly improved the fit of the logistic model.

The overall (average) injury severity for injured light vehicle drivers or unprotected road users in the data analysed was 21.42 per 100 involved. In other words, the probability that a road user injured in a crash was severely injured was 21.42%. Appendix 6 gives the estimates of injury severity derived by logistic regression for 564 individual car models, or sets of combined models. Of the cars analysed, injury severity ranged from 6.32% for the 2001-2003 Renault Megane Cabriolet to 47.53% for the 1982-1984 Alfa Romeo GTV.

An estimate of the variability in the estimates of injury severity was calculated from the width of the corresponding 95% confidence intervals. Individual confidence interval widths ranged from 1.41% for the 1989-1993 Holden Commodore VN/VP and Toyota Lexcen to 43.94% for the 1985-1998 Alfa Romeo 90.

The estimated injury severity for each market group is also given in Appendix 6. Compact sports utility vehicles performed best with respect to injury severity, having the lowest average injury severity of 20.40%. The large sports utility vehicle market group had the highest average injury severity of 23.73%.

5.3.3 Total secondary safety index

The total secondary safety index for each car model and market group was obtained by multiplying the individual injury risk and injury severity estimates. Because each of the two components had been adjusted for the confounding factors, the resultant total secondary safety index was also adjusted for the influence of these factors.

Total secondary safety indices were obtained for each individual model and market group after adjusting for the confounding factors.

Appendix 6 gives the total secondary safety secondary index and the associated 90% confidence intervals for each of the 564 car models included in the analyses. Each rating is expressed as a percentage, representing the number of road users killed or admitted to hospital per 100 light vehicle drivers or unprotected road users involved in a tow-away focus crash. Overall ratings for the market groups are also given.

Each total secondary safety rating is an *estimate* of the true risk of a light vehicle driver or unprotected road user being killed or admitted to hospital in a tow-away crash and, as such, each estimate has a level of uncertainty about it. This uncertainty is indicated by the confidence limits in Appendix 6. There is 95% probability that the confidence interval will cover the true risk of serious injury (death or hospital admission) to the light vehicle driver or unprotected road user involved in a crash with the particular model of vehicle.

Table 5 gives a summary of the estimated ratings for each of the 10 defined vehicle market groups. It shows the estimated injury risk and severity components, and the resulting total secondary safety index with upper and lower 95% confidence limits, and the width of the 95% confidence limit. The relative ranking of the total secondary safety index on each market group is also given in Table 6 although this should be interpreted with care as there is not necessarily a statistically significant difference between the average total secondary safety of vehicle market groups with different rankings. Statistical significance in average total secondary safety between market groups at the 5% level is only achieved when the 95% confidence limits do not overlap. Similar comments apply to interpreting results in Appendix 6.

Table 5: *Estimated Vehicle Total Secondary Safety by Market Grouping*

Market Group	Injury risk (%)	Injury severity (%)	Total Secondary Safety Index*	Overall rank order	Lower 95% Confidence limit	Upper 95% Confidence limit	Width of Confidence interval
Overall Average	**17.04**	**21.42**	**3.65**				
COMPACT SUV	16.74	20.40	3.42	2	3.30	3.53	0.23
MEDIUM SUV	15.39	21.28	3.27	1	3.15	3.41	0.26
LARGE SUV	15.63	23.73	3.71	7	3.60	3.82	0.21
COMMERCIAL - VAN	18.26	21.99	4.01	9	3.88	4.16	0.28
COMMERCIAL - UTE	16.35	22.29	3.65	6	3.57	3.72	0.14
LARGE	16.58	21.07	3.49	4	3.45	3.54	0.09
MEDIUM	16.90	20.62	3.49	3	3.43	3.54	0.11
PEOPLE MOVERS	17.82	21.38	3.81	8	3.67	3.96	0.29
SMALL	17.78	20.46	3.64	5	3.59	3.69	0.10
LIGHT	19.20	21.10	4.05	10	3.97	4.13	0.16

- Serious injury rate per 100 road users involved

Table 5 shows medium four wheel drives to have the highest total secondary safety with an average of 3.27 light vehicle drivers or unprotected road users being killed or seriously injured for every 100 tow-away crashes. Similarly, light cars have the lowest total secondary safety with an average total secondary safety index of 4.05.

5.3.4 Comparisons with the Benchmark Rating

As for the crashworthiness and aggressivity ratings, a rating presentation was used for the total secondary safety index which classifies vehicles according to where their rating lies in relation to a best performance benchmark. The benchmark rating in this update was defined as the rating above which 10% of the rating point estimates were better (see Section 5.4). The point against which

ratings for individual vehicles are compared is arbitrary, whether it is the average used in previous updates or the benchmark rating described above or some other point.

Classification categories are defined by distances away from this benchmark. For the total secondary safety index the five categories were defined as follows.

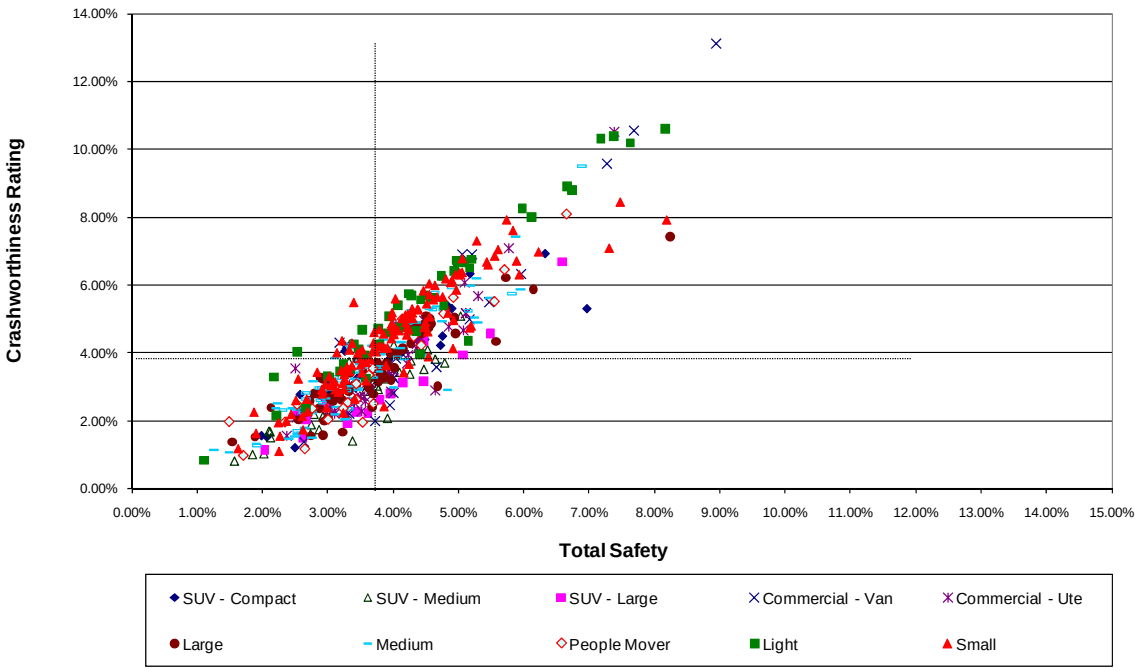
- Equal to the benchmark.
- Worse than the benchmark.
- At least 20% worse than the benchmark.
- At least 40% worse than the benchmark.
- At least 60% worse than the benchmark.

Again this choice is arbitrary but should aim to spread the vehicles across the performance categories. Vehicles are classified into each category according to the band in which the lower confidence limit on the rating lies. Using only the lower confidence limit defines a true one-sided statistical test which is equal for each rating. Total Secondary Safety ratings by classification category are shown in Appendix 7.

5.3.5 Comparison of Crashworthiness, Aggressivity and the Total Secondary Safety index

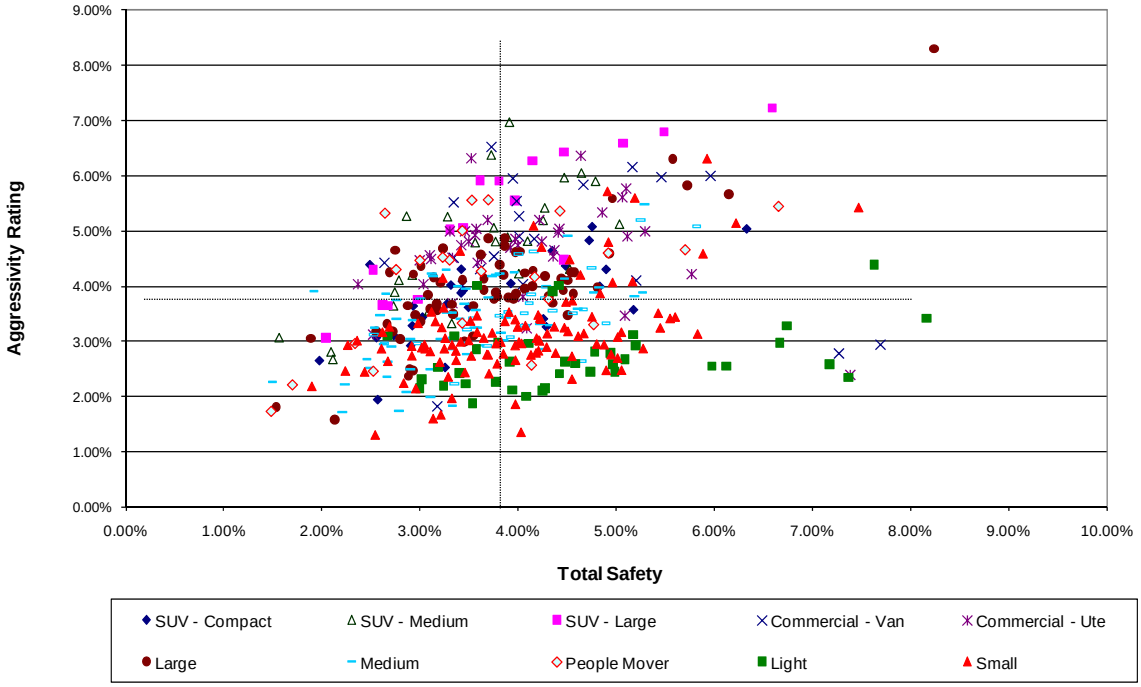
Figure 32 plots vehicle models crashworthiness ratings against their total secondary safety index. The solid lines on the chart are the average value for each index. Figure 32 shows a strong relationship exists between crashworthiness and total secondary safety reflecting that crashworthiness is relevant to injury outcome in all types of crashes involving light vehicles excluding those with unprotected road users.

Figure 32: *Crashworthiness vs. Total Secondary Safety*



In contrast, Figure 33 shows a much weaker relationship between aggressivity and total secondary safety reflecting that aggressivity is only relevant to injury outcome in crashes between 2 light vehicles and involving unprotected road users.

Figure 33: *Aggressivity vs. Total Secondary Safety*



Comparison by Market Groups

Tables 3, 4 and 5 show that essentially the rank order of the market groups within the total secondary safety index are consistent with the rankings within the crashworthiness measure but with a moderation effect on the total secondary safety index dependent on the aggressivity of the vehicle. In other words vehicles with high aggressivity display a shift in ranking for total secondary safety towards higher or worse total secondary safety. For example, large sports utility vehicles have shifted notably in their ranking from a 2 in the crashworthiness market group rankings to a ranking of 7 across the market groups for total secondary safety.

5.4 Presentation of Total Secondary Safety Index, Crashworthiness and Aggressivity Ratings for Consumer Information

Discussion in the previous work of Cameron et al (1998) noted the need for simplicity of presentation and interpretation in providing consumer safety advice through employing methods that summarised the complex statistical information contained in the ratings into an easily understood summary. From the ratings of Newstead et al (2000), a method of presentation of the estimated crashworthiness ratings for Australian vehicles was devised that is similar in philosophy to the presentation method devised by Folksam Insurance for presentation of Swedish ratings. The method took into account both the rating point estimate and confidence limits, but removed the emphasis from the point estimate. The same method of presentation was also used for the aggressivity and total secondary safety ratings.

As a first step in providing clear consumer information, the ratings presented have been filtered to ensure a minimum level of statistical accuracy and hence a high degree of confidence in the information presented. For the update of Newstead et al (2010a,b) the total secondary safety, crashworthiness and aggressivity ratings presented for consumer information the presentation criteria were tightened further to ensure even greater accuracy. Ratings presented in the consumer information derived in this report excluded those models where:

- the vehicle was manufactured prior to 1996 (compliance with the frontal impact standard ADR69 was mandated for most cars sold from 1996) for the brochure presentation – webbased presentation included all vehicles rated and manufactured from 1982 onwards, or

- the width of the 90% two-sided confidence interval was greater than 2.00%, or

- the ratio of the confidence interval width to the rating score (coefficient of variation) exceeded 1.6.

The presentation criteria used for the 2010 update were used for the most recent update of Newstead et al (2011a, b) and the current update.

For the update of Newstead et al (2009a, b), a new rating presentation classified vehicles according to where their rating lay in relation to a 'best current performance' benchmark. The benchmark was set by choosing a percentile of the best (lowest) rating vehicles in the sample. The choice of percentile is arbitrary but should ideally be less than 15% - i.e. 15% of vehicles have a point estimate rating better than that value. The benchmark rating used in deriving the consumer presentation for the most recent update of Newstead et al (2010a,b) and this update was defined as the value below which 8% of the rated vehicles' rating point estimates lay (noting that a numerical lower rating indicates better safety performance). Classification categories were then defined by distance bands in which the lower confidence limit on each individual vehicle rating lie away from this benchmark. For the update of Newstead et al (2011a, b) the five categories were defined as follows:

- Equal to the benchmark.
- Worse than the benchmark.
- At least 30% worse than the benchmark.
- At least 60% worse than the benchmark.
- At least 90% worse than the benchmark.

The separation gradients between categories are arbitrary but aimed to spread the vehicles relatively equally across the performance categories. Vehicles are classified into each category according to the band in which the lower confidence limit on the rating lies. Using only the lower confidence limit defines a true one-sided statistical test which is applied equally for each vehicle's rating.

The five categories used in the update of Newstead et al (2011a, b) for the total secondary safety index and in this update for both the aggressivity ratings and total secondary safety index were defined as follows:

- Equal to the benchmark.
- Worse than the benchmark.
- At least 20% worse than the benchmark.
- At least 40% worse than the benchmark.
- At least 60% worse than the benchmark.

Presentation of the estimated crashworthiness ratings in this way is shown in Appendix 7. The benchmark crashworthiness rating above which 10% of the crashworthiness rating estimates were better is 2.04%. Colour coding of the categories has been used with green depicting that the rating is equivalent to the benchmark, blue depicting that the rating is worse than the benchmark through yellow and orange to red depicting at least 30%, 60% and 90% worse than the benchmark respectively.

A single column at the right of the table in Appendix 7 summarises the aggressivity rating category for each vehicle. The benchmark aggressivity rating above which 10% of the aggressivity rating estimates were better is 2.46%. In a manner similar to the classification of crashworthiness ratings, the estimated aggressivity ratings have been classified into five categories with each represented by a symbol in the final column of the table. These are:

- xx: At least 60% worse than the benchmark.
- x: At least 40% worse than the benchmark.
- **o**: At least 20% worse than the benchmark.
- +: Worse than the benchmark.
- ++: Equal to the benchmark.

Presentation of the estimated total secondary safety index rating category in a similar way is also shown in Appendix 7 in a single column at the right of the table. The benchmark total secondary safety index above which 10% of the total secondary safety rating estimates were better is 2.45%.

This presentation style has the advantage that it combines information about both the rating point estimate and confidence limit to classify the safety performance of the vehicle. Like the previous presentation format, this method of presentation takes the potential emphasis of the consumer off comparison of only the point estimate ratings, an emphasis that can be potentially misleading from the point of view of statistical confidence. Rather, the presentation method categorises vehicles according to the statistical significance of the difference of their estimated safety rating from defined points. Colour coding of the categories would typically be used with green depicting the safest category through blue, yellow and orange to red depicting the least safe category. 90% two-sided confidence limits have been used to categorise the crashworthiness ratings in Appendix 7. These are equivalent to a 95% one-sided confidence limit for the directional hypothesis testing how much greater than a defined point the ratings is, as employed in the new rating presentation.

In this update an additional column in the table in Appendix 7 provides suggested “best pick” vehicles by market group where the vehicle has a crashworthiness rating equal to the benchmark and a total safety index rating also equal to the benchmark.

Some vehicle models in Appendix 7 have no symbol in the aggressivity rating or total secondary safety index rating column. These vehicles have been involved in an insufficient number of crashes to have an aggressivity or total secondary safety rating estimated for them.

5.5 Crashworthiness by Year of Manufacture of the Australian Vehicle Fleet

5.5.1 Injury Risk

Injury risk was estimated from the data on 3,969,536 drivers involved in tow-away crashes in New South Wales, South Australia, Western Australia and Queensland during 1987 to 2010. This data set is referred to as the "involved drivers". Because of missing values of some of the factors to be included in the logistic regression, and the exclusion of pre-1964 vehicles and unknown years, analysis was performed on data relating to 3,343,960 involved drivers, 588,783 of whom were injured. The following non-vehicle factors and their interactions were statistically significantly associated with injury risk and were included in the logistic regression model.

Base effect terms	First order interactions	Second order interactions	Third order interactions
Sex	Sex*Speedzone	Sex*Speedzone*Nveh	Age*Speedzone*Nveh*State
Nveh	Speedzone*Nveh	Sex*State*Year	Speedzone*Nveh*State*Year
Speedzone	Sex*Nveh	Age*Speedzone*Nveh	Age*Sex*Nveh*State
Age	Speedzone*Age	Age*Sex*Speedzone	Sex*Speedzone*Nveh*State
State	Age*Sex	Age*Nveh*State	Age*Sex*State*Year
Year (of crash)	Year*State	Nveh*State*Year	Age*Nveh*State*Year
	Age*Nveh	Speedzone*Nveh*State	Age*Speedzone*Nveh*Year
	Nveh*State	Speedzone*State*Year	
	Nveh*Year	Age*State*Year	
	Age*State	Speedzone*Nveh*Year	
	Age*Year	Age*Sex*State	
	Speedzone*State	Sex*Speedzone*State	
	Sex*Year	Age*Speedzone*State	
	Speedzone*Year	Age*Sex*Nveh	
	Sex*State	Age*Nveh*Year	
		Sex*Nveh*Year	
		Sex*Nveh*State	
		Age*Sex*Year	
		Age*Speedzone*Year	

The overall (average) injury risk for involved drivers in tow-away crashes in NSW, Western Australia and Queensland was 17.61%. Appendix 7 gives the estimates of injury risk derived by logistic regression for the individual years of manufacture. The variability in the injury risk estimates relative to the year of manufacture can be seen from the width of the corresponding 95% confidence intervals.

5.5.2 Injury Severity

The data on "injured drivers" covered 654,934 drivers who were injured in crashes in Victoria or New South Wales during 1987-2010 or South Australia during 1995-2010 or Queensland and Western Australia during 1991-2010. Because of missing values of some of the associated crash factors and the exclusion of pre-1964 vehicles and unknown years, logistic regression was performed on data relating to 622,235 injured drivers, 145,498 of whom were severely injured (killed or admitted to hospital). The analysis identified a number of statistically significant non-vehicle factor and their interactions associated with injury severity. These were:

Base effect terms	First order interactions	Second order interactions	Third order interactions
Sex	Sex*Speedzone	Speedzone*Nveh*Year	Speedzone*Nveh*State*Year
Nveh	Speedzone*Nveh	Age*Speedzone*Nveh	Age*Nveh*State*Year
Speedzone	Speedzone*State	Age*Sex*Year	
Age	Speedzone*Age	Age*State*Year	
State	Age*Sex	Speedzone*Nveh*State	
Year (of crash)	Year*State	Speedzone*State*Year	
	Age*Nveh	Sex*State*Year	
	Nveh*State	Nveh*State*Year	
	Speedzone*Year	Sex*Nveh*State	
	Age*State	Age*Sex*Nveh	
	Age*Year	Age*Speedzone*State	
	Sex*State	Sex*Speedzone*Nveh	
	Sex*Year	Age*Nveh*Year	

	Nveh*Year	Age*Nveh*State	
	Sex*Nveh	Age*Sex*State	

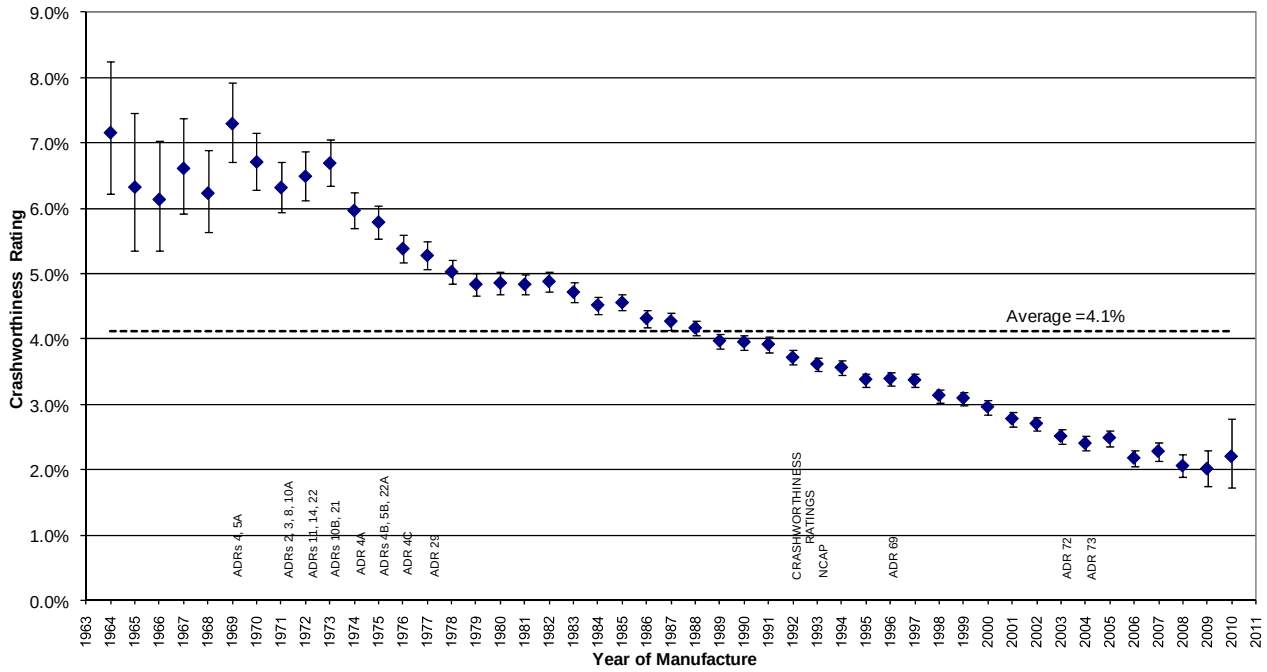
The overall (average) injury severity for injured drivers was 23.38%. Appendix 7 gives the estimates of injury severity derived by logistic regression for the individual years of manufacture. The variability in the estimates of injury severity relative to year of manufacture can be seen from the width of the corresponding 95% confidence intervals.

5.5.3 Crashworthiness by Year of Manufacture

The crashworthiness estimates for each year of manufacture were obtained by multiplying the individual injury risk and injury severity estimates. Because each of the two components has been adjusted for the confounding factors, the resultant crashworthiness estimate is also adjusted for the influence of them. Appendix 8 gives the crashworthiness estimates and the associated 95% confidence intervals for each of the 47 years of manufacture included in the analysis. Each estimate is expressed as a percentage, representing the number of drivers killed or admitted to hospital per 100 drivers involved in a tow-away crash. 95% confidence limits on the estimates are also given.

The crashworthiness estimates and their confidence limits are plotted for each year of manufacture in Figure 34. The relatively wide confidence intervals observed on the estimates of crashworthiness for years of manufacture 1964 to 1969 and 2010 are a reflection of the smaller numbers of crashes involving vehicles manufactured in these years appearing in the data. Introduction of key safety related Australian Design Rules as well as consumer information programs likely to have influenced levels of vehicle safety are also shown on Figure 34. Full details of these initiatives are given in Newstead et al (2006).

Figure 34: *Crashworthiness by year of manufacture (with 95% confidence limits)*



The injury risk component of the crashworthiness estimate, together with its 95% confidence limits, is plotted in Figure 35. In a similar way, the injury severity component is plotted in Figure 36.

Figure 35: *Injury risk by year of manufacture (with 95% confidence limits)*

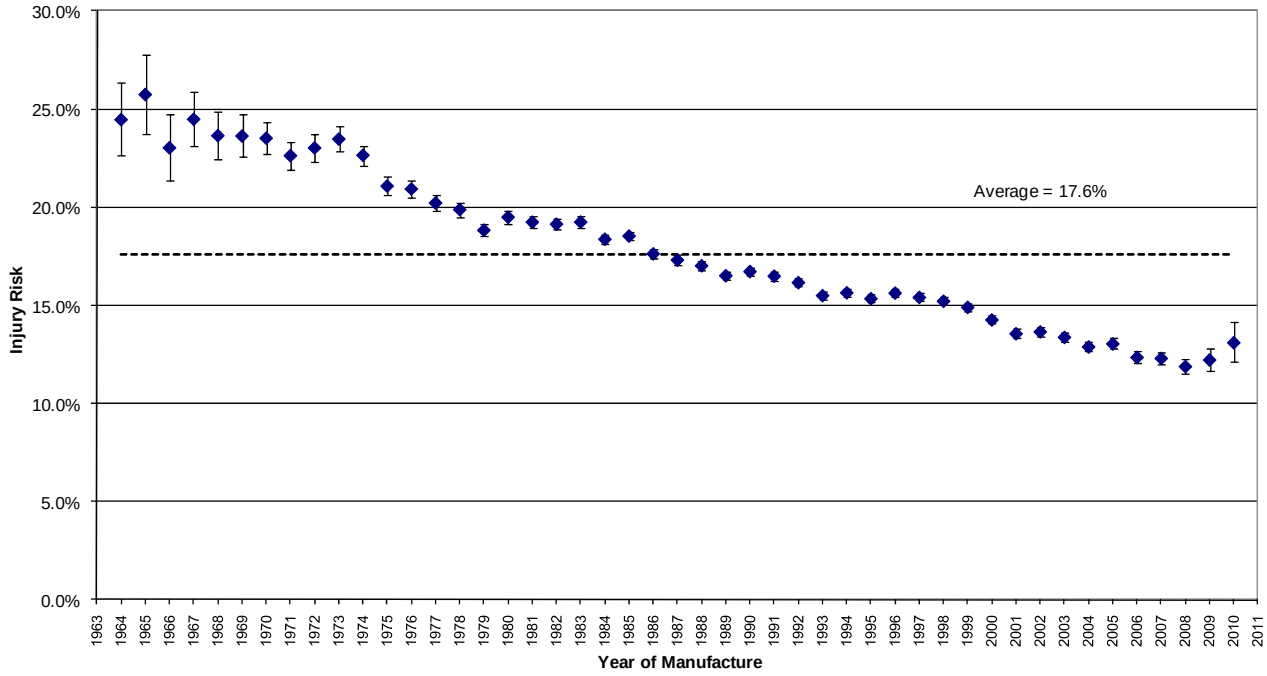
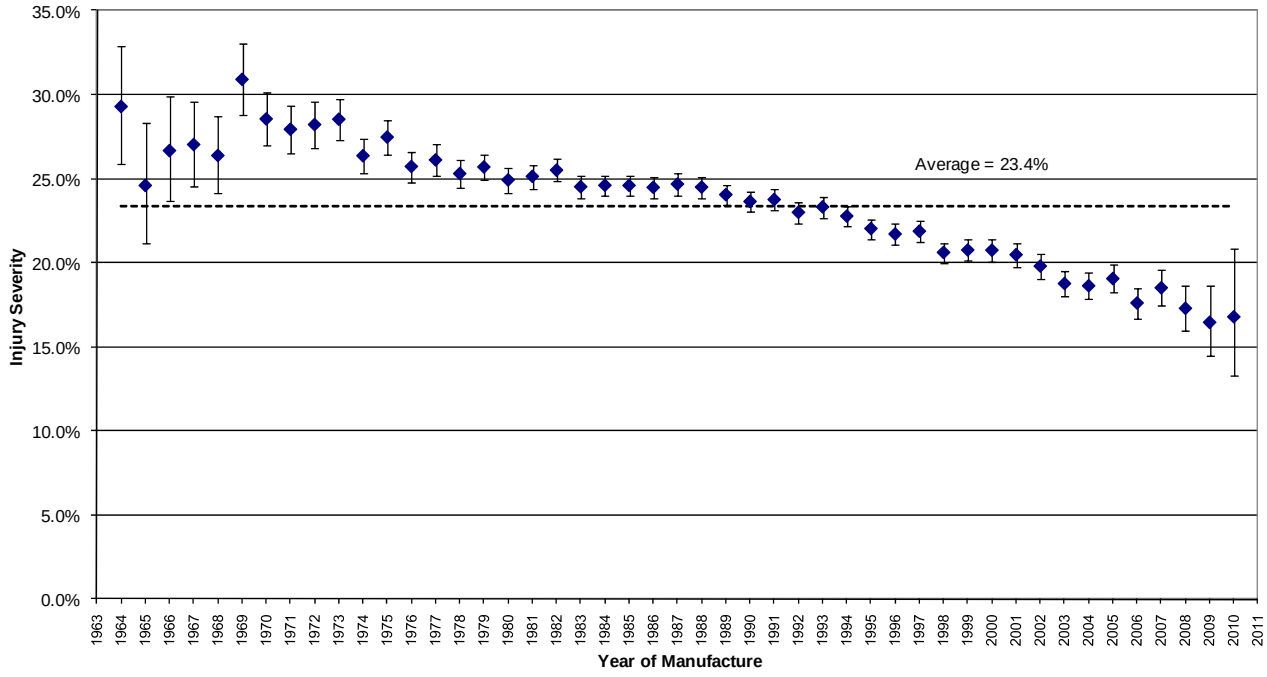


Figure 36: *Injury severity by year of manufacture (with 95% confidence limits)*



5.6 Crashworthiness by Year of Manufacture and Market Group for the Australian Vehicle Fleet

Using the methods of Newstead and Cameron (2001), trends in vehicle crashworthiness by year of manufacture have been estimated separately for each of the 10 defined vehicle market groups. Because vehicle model information was required to assign a market grouping, analysis of trends by year of manufacture within market group could only be carried out for vehicles manufactured from 1982 to 2010. In contrast to estimation of crashworthiness ratings by vehicle model, there was no

minimum data requirement for a particular model to be included in the analysis. Hence all vehicle models for which a market group could be assigned were included. However, despite aggregation over vehicle models, it was not possible to estimate crashworthiness estimates for particular years of manufacture in certain market groups due to insufficient data quantities.

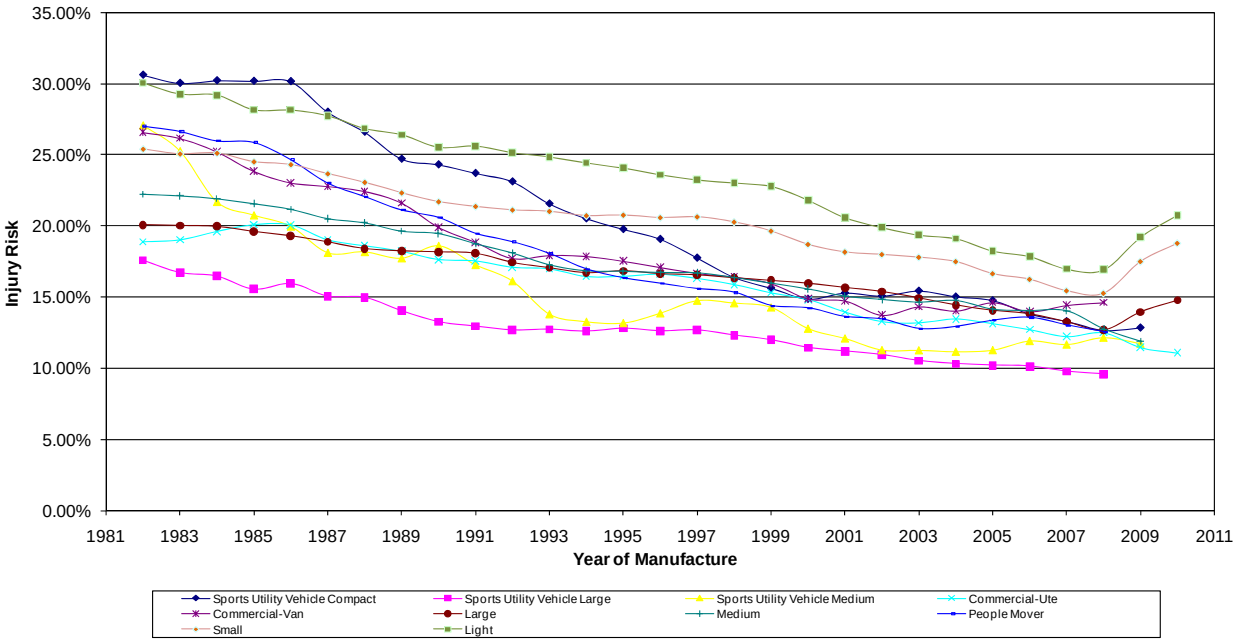
5.6.1 Injury Risk

Injury risk was estimated from the data on 2,173,748 drivers of 1982 to 2010 vehicles with identified model, market group and covariate details involved in tow-away crashes in New South Wales, South Australia, Western Australia and Queensland during 1987 to 2010. The following non-vehicle factors and their interactions were statistically significantly associated with injury risk and were included in the logistic regression model.

Base effect terms	First order interactions	Second order interactions	Third order interactions
Sex	Sex*Speedzone	Sex*Speedzone*Nveh	Age*Speedzone*Nveh*State
Nveh	Speedzone*Nveh	Age*Speedzone*Nveh	
Speedzone	Sex*Nveh	Age*Nveh*State	
Age	Speedzone*Age	Speedzone*Nveh*State	
State	Age*Sex	Age*Speedzone*State	
Year (of crash)	Age*Nveh	Age*Speedzone*Year	
	Nveh*State	Speedzone*Nveh*Year	
	Nveh*Year	Sex*Speedzone*State	
	Age*State	Age*Sex*Speedzone	
	Age*Year		
	Speedzone*State		
	Speedzone*Year		
	Sex*Year		
	Sex*State		

Figure 37 shows the estimates of injury risk by year of vehicle manufacture for each of the 10 market groups considered. Estimates have been smoothed using a linear smoothing function over a window of three years (the central year and a year either side). Smoothing of the estimates was carried out to better identify the trends in the data. Smoothing in this way also compensates for known error in the recording of the year of vehicle manufacture, an error typically up to one year from the true date of manufacture.

Figure 37: *Estimated injury risk by year of vehicle manufacture and market group*



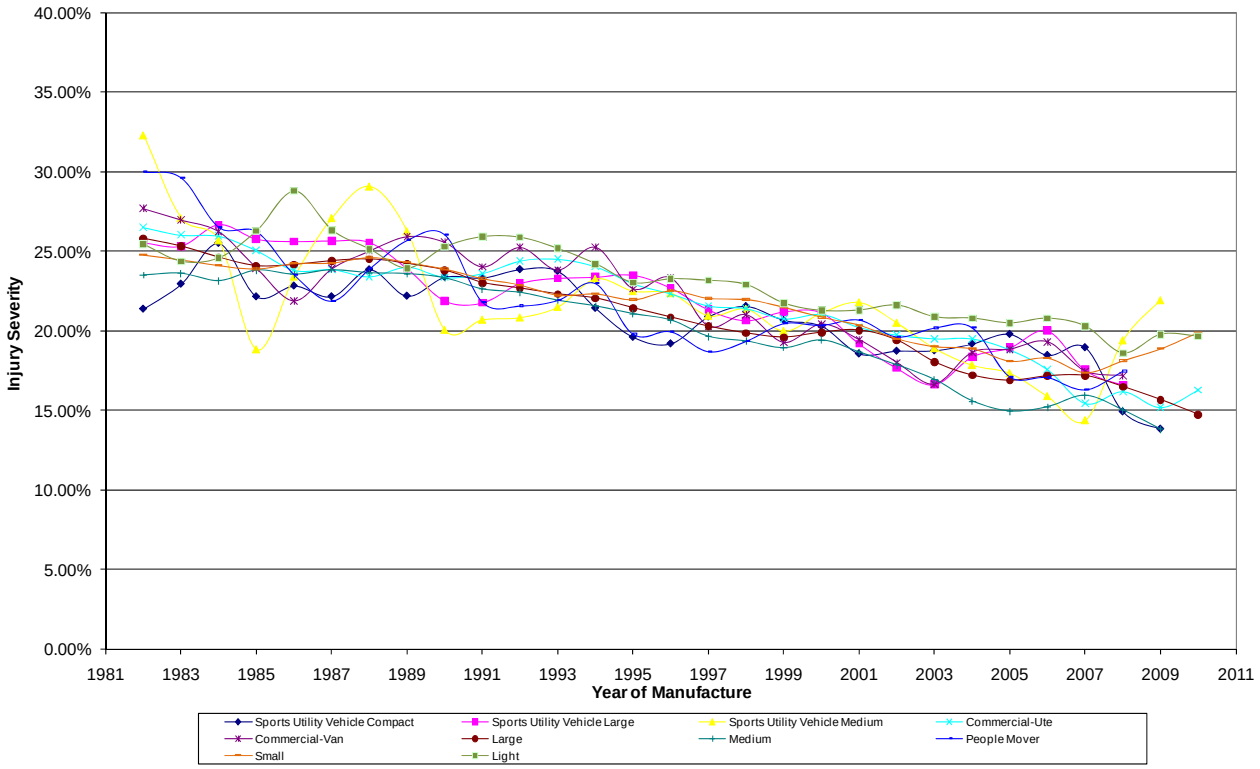
5.6.2 Injury Severity

The data for computation of injury severity covered 354,193 drivers of 1982-2010 vehicles with identified model, market group and covariate details who were injured in crashes in Victoria or New South Wales during 1987-2010, South Australia during 1995-2010 or Queensland or Western Australia during 1991-2010. The following non-vehicle factors and their interactions were significantly associated with injury severity:

Base effect terms	First order interactions	Second order interactions
Sex	Speedzone*Nveh	Speedzone*Nveh*State
Nveh	Sex*State	Speedzone*State*Year
Speedzone	Age*Sex	Age*Nveh*State
Age	Nveh*State	Age*State*Year
State	Speedzone*State	Nveh*State*Year
Year (of crash)	Year*State	Speedzone*Nveh*Year
	Age*Nveh	Sex*Nveh*State
	Age*State	Age*Sex*State
	Age*Year	
	Speedzone*Year	
	Nveh*Year	
	Sex*Nveh	

Figure 38 shows the estimates of injury severity by year of vehicle manufacture for each of the 10 market groups considered. Estimates have again been smoothed to better identify the trends in the data.

Figure 38: Estimated injury severity by year of vehicle manufacture and market group



5.6.3 Crashworthiness by Year of Manufacture and Market Group

The crashworthiness estimates for each year of manufacture were obtained by multiplying the individual injury risk and injury severity estimates. Appendix 9 gives the crashworthiness estimates and the associated 95% confidence intervals for each of the years of manufacture from 1982 to 2010 by each of the 10 vehicle market groups considered. Each estimate is expressed as a percentage, representing the number of drivers killed or admitted to hospital per 100 drivers involved in a tow-away crash. The crashworthiness estimates are plotted for each year of manufacture and vehicle market group in Figure 39. Again, the values in Figure 39 have been smoothed for reasons given above.

Figure 39: *Estimated crashworthiness by year of vehicle manufacture and market group*

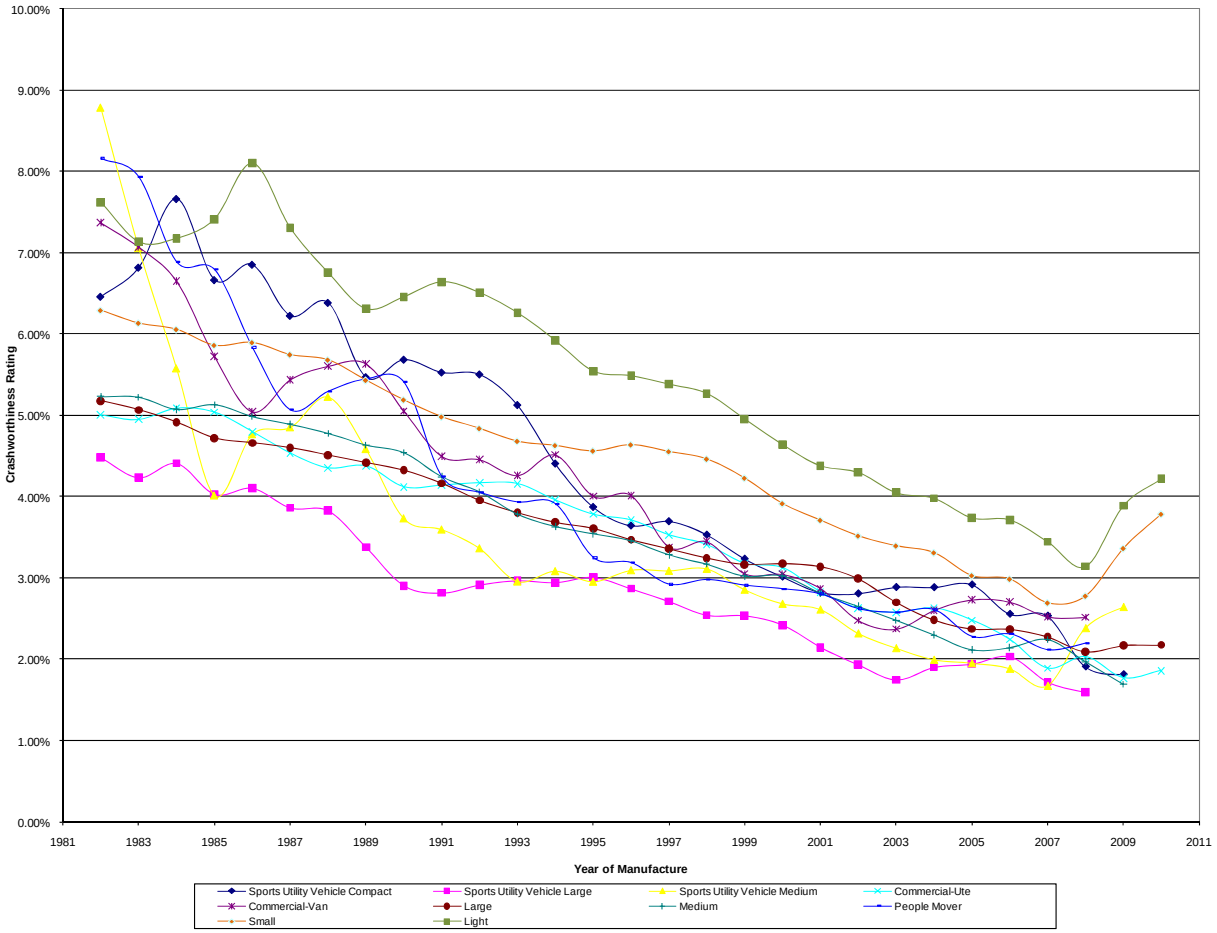


Figure 39 clearly shows differential performance in crashworthiness between vehicle market groups, reflecting the same differences seen in average crashworthiness by market groups found in the make and model specific ratings presented above (see Appendix 4). It is, however, difficult from Figure 39 to gauge differential improvements in crashworthiness over time. This is due to the complexity of the figure with 10 market groups as well as the relatively high variance in some of the year to year estimates despite smoothing. To try and better measure differential time based safety improvements by market group, Figure 40 presents average crashworthiness by five year time blocks of manufacture for the periods 1982-1986, 1987-1991, 1992-1996, 1997-2001, 2002-2006 and a four year time block for 2007-2010. In addition, estimates have been scaled to be relative to the first time block (1982-1986) for each market group. Whilst Figure 40 no longer reflects average differences in crashworthiness between market groups, it more clearly demonstrates differential performance between market groups in improving crashworthiness over time.

Figure 40: *Average crashworthiness by year of manufacture and market group by year range relative to the 1982-1986 average*

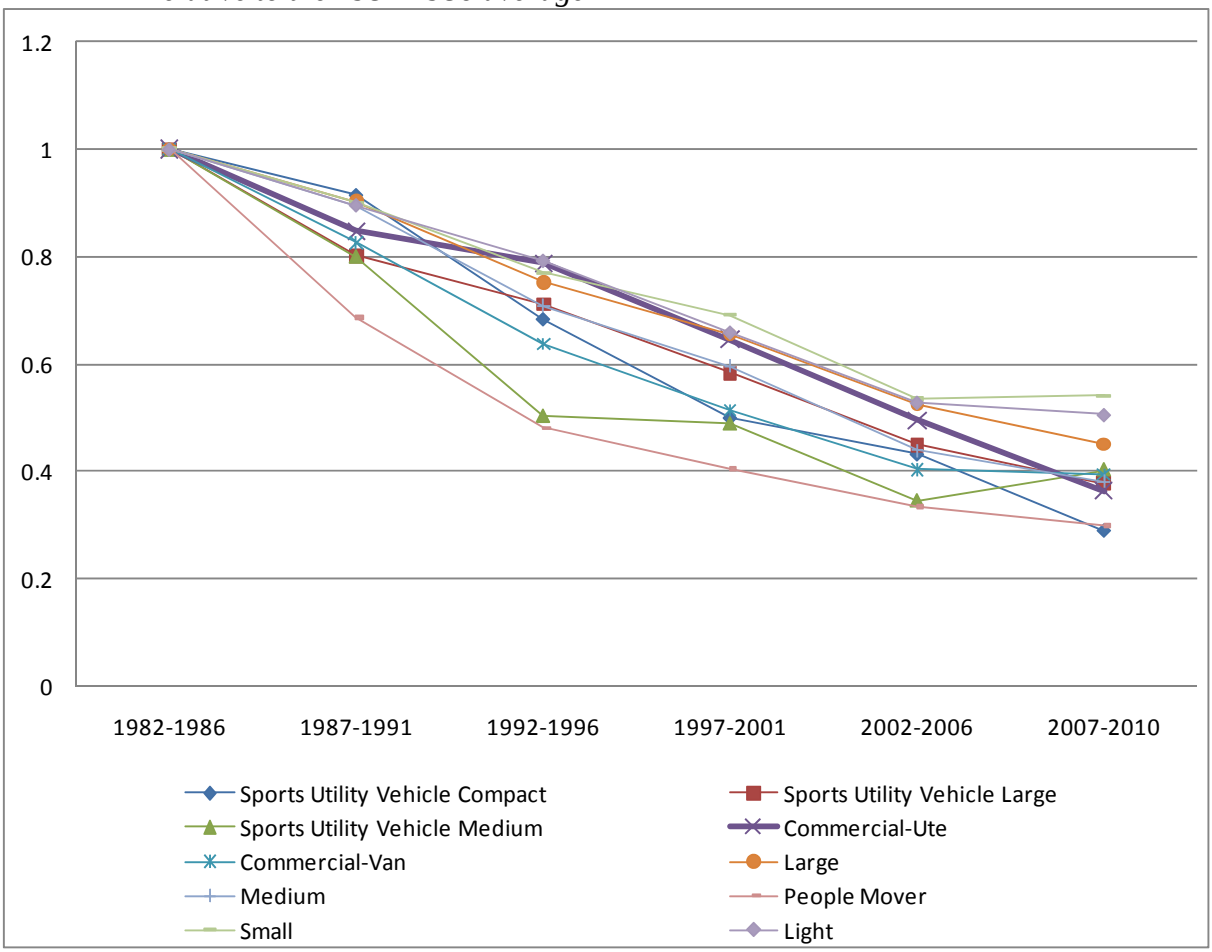


Figure 40 shows that certain vehicle market groups have experienced greater relative improvements in crashworthiness over the study period than others. The compact sports utility vehicle and people mover market groups have shown the greatest improvement in crashworthiness over the study period of between 70 and 71 percent. The commercial van and ute, medium and large sports utility vehicle and medium market groups had the next greatest improvement in crashworthiness of between 60 and 64 percent. The large car market group has shown the next greatest improvement in crashworthiness over the study period of 55 percent. The small and light car market groups have shown the most modest gains over the study period of between 46 and 49 percent.

7. CONCLUSIONS

Crashworthiness ratings estimate the risk of a driver being killed or seriously injured when involved in a tow-away crash, to a degree of accuracy represented by the confidence limits of the rating in each case. Additional crash data has enabled the crashworthiness ratings to be obtained for a larger range of car models than in previous studies with the ratings now covering 506 different models of passenger cars, four wheel drive vehicles, passenger vans and light commercial vehicles manufactured from 1982-2010 classified into one of 10 market groups. The new data set has been able to produce more up-to-date and reliable estimates of the crashworthiness of individual car models than those published previously.

Vehicle aggressivity ratings were also updated. The aggressivity measure considers the injury outcome to both drivers of other vehicles and unprotected road users including pedestrians, bicyclists and motorcyclists. The aggressivity rating measured the risk of death or serious injury a vehicle poses to drivers of other cars or unprotected road users with which it impacts in a crash. The mix of other drivers and unprotected road users on which the rating for each vehicle was based was standardised along with various other non-vehicle related factors using logistic regression techniques. The aggressivity measure was calculated for 458 models of Australian and New Zealand passenger vehicles (passenger cars, four wheel drive vehicles, passenger vans and light commercial vehicles) manufactured between the years 1982-2010. The degree of accuracy of the aggressivity ratings is represented by the confidence limits of the rating in each case. Estimated vehicle aggressivity towards drivers of other vehicles or unprotected road users was found to have little or no relationship with ratings of vehicle crashworthiness, demonstrating the independence of the two complementary measures. For this update, 454 or 90% of the vehicle models rated for crashworthiness were also able to be rated for aggressivity.

The total secondary safety index summarises the combined crashworthiness and aggressivity of a vehicle in a way that best reflects the relative importance of each component in real world crash circumstances. Applied to the available police reported crash data it was possible to estimate statistically reliable ratings for 564 distinct makes and models of vehicles. Comparison of the total secondary safety index with the crashworthiness and aggressivity estimates shows the total vehicle secondary safety index is much more strongly associated with the crashworthiness measure than the aggressivity measure. This is as expected given that a vehicle's crashworthiness performance is relevant in a wider range of crash types than is its aggressivity.

For vehicle regulators and safety advocates, the total secondary safety index possibly represents the most relevant measure of vehicle secondary safety performance as it encapsulates the total performance of the vehicle in preventing serious injury outcome for all road users. However, the crashworthiness and aggressivity components are still important separately to identify those characteristics of a vehicle leading to good performance in each dimension. Consumers are likely to be most interested in the crashworthiness of a vehicle as it has the most direct relevance for them. However, introducing a new presentation style identifying best pick vehicles that have excellent crashworthiness as well as total safety will help to continue to focus consumers on the need for the vehicles they choose to protect other road users with which they collide.

The crashworthiness of passenger vehicles in the Australian vehicle fleet (cars, station wagons, four wheel drives, vans and taxis), has been estimated by year of vehicle manufacture for the years 1964 to 2010. It shows patterns of improvements in crashworthiness with the greatest gains over the years 1970 to 1979 during which time a number of new Australian Design Rules aimed at occupant protection took effect. Further significant gains in crashworthiness have also been observed over the years 1986 to 2009, with notable steady gains from 1985 to 1995 and since 2000. Trends in crashworthiness by year of vehicle manufacture from 1982 to 2010 for each of the 10 vehicle

market groups were also estimated showing differential improvement in crashworthiness by market group by year of manufacture.

8. ASSUMPTIONS AND QUALIFICATIONS

The results and conclusions presented in this report are based on a number of assumptions and warrant a number of qualifications that the reader should note. These are listed in the following sections.

8.1 Assumptions

It has been assumed that:

- TAC claims records and, Victorian, New South Wales, South Australian, Western Australian, Queensland and New Zealand Police crash report recorded driver injury, hospitalisation and death with the same degree of accuracy for each vehicle make and model.

- There was no bias in the merging of TAC claims and Victorian Police crash reports related to the model of car and factors affecting the severity of the crash.

- Crashed vehicle registration numbers were recorded accurately on Police crash reports and that they correctly identified the crashed vehicles in the Victorian, New South Wales, South Australian, Queensland, Western Australian and New Zealand vehicle registers.

- The adjustments for driver sex, age, speed zone, the number of vehicles involved and the state and year in which the crash occurred removed the influences of the other main factors available in the data that affected crash severity and injury susceptibility.

- The form of the logistic models used to relate injury risk and injury severity with the available factors influencing these outcomes (including the car model, market group or year of manufacture) was correct.

- Information contained in the Police crash records allowed accurate matching of both vehicles involved in crashes between two passenger cars and vehicles impacting unprotected road users for the purpose of calculating aggressivity and total secondary safety ratings.

8.2 Qualifications

The results and conclusions warrant at least the following qualifications:

- Only driver crash involvements and injuries have been considered. Passengers occupying the same model cars may have had different injury outcomes. In 95% of crashes, the driver of the vehicle is the most seriously injured occupant hence justifying the focus on driver protection.

- Some models with the same name through the 1982-2010 years of manufacture may have varied substantially in their construction, specification and mass. Although there should be few such models in these updated results, the rating score calculated for these models represent an average across the variants aggregated. There may be significant variation in secondary safety performance across the aggregated models.

- Other factors not collected in the data (e.g. crash impact severity) may differ between the models and may affect the results. However, earlier analysis has suggested that the different rating scores are predominantly due to vehicle factors alone (Cameron et al 1992).

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APPENDIX 1

MAKES AND MODELS OF CARS INVOLVED IN VICTORIAN AND NSW CRASHES DURING 1987-2010, SOUTH AUSTRALIA CRASHES DURING 1995-2010, QUEENSLAND DURING 1991-2009 AND WESTERN AUSTRALIA AND NEW ZEALAND CRASHES DURING 1991-2010

FREQUENCY FOR EACH MODEL FOR ALL TYPES OF CRASHES (NSW/VIC/SA/QLD/WA/NZ)

Note: Only those models with a Market Group displayed were used in the crashworthiness analysis

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Alfa Romeo	164	89-92	AL01Z	118	14	132	13	6	19	0	
Alfa Romeo	33	83-92	AL02Z	699	114	813	120	30	150	1	Small
Alfa Romeo	75	86-92	AL03Z	218	30	248	28	4	32	1	Small
Alfa Romeo	90	85-88	AL04Z	83	11	94	9	5	14	0	
Alfa Romeo	GTV	82-84	AL05Z	165	18	183	13	10	23	1	Small
Alfa Romeo	Sprint	82-88	AL06Z	131	24	155	30	6	36	1	Small
Alfa Romeo	Alfasud	82-84	AL07Z	114	22	136	18	6	24	1	Small
Alfa Romeo	Alfetta	82-88	AL08Z	57	12	69	4	7	11	0	
Alfa Romeo	Guilietta	82-86	AL09Z	65	8	73	8	2	10	0	
Alfa Romeo	Quattro		AL10Z	1	0	1	1	0	1	0	
Alfa Romeo	156	99-06	AL13Z	490	89	579	60	11	71	1	Medium
Alfa Romeo	166	99-08	AL14Z	37	4	41	4	1	5	0	
Alfa Romeo	GTV / Spider	98-04	AL15Z	144	20	164	7	3	10	0	
Alfa Romeo	147 / GT	01-10	AL16Z	255	42	297	32	6	38	1	Medium
Alfa Romeo	159 / Brera	06-10	AL17Z	32	6	38	7	0	7	0	
Alfa Romeo	Others		AL99Z	529	65	594	153	40	193	0	
Audi	A4 / S4 Cabriolet	02-08	AU10Z	29	11	40	12	1	13	0	
Audi	A3	04-09	AU11Z	96	18	114	22	4	26	1	Small
Audi	Q7	06-10	AU12Z	23	5	28	4	2	6	0	
Audi	TT	06-10	AU13Z	13	2	15	3	1	4	0	
Audi	A5 / S5	07-10	AU15Z	12	3	15	3	0	3	0	
Audi	A4 / S4 B8	08-10	AU16Z	27	4	31	8	1	9	0	

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Audi	Q5	09-10	AU17Z	6	2	8	2	1	3	0	
Audi	A6/S6/AllRoad	95-04	AUD1A	57	8	65	18	1	19	0	
Audi	A6/S6/AllRoad/RS6	05-10	AUD1B	14	3	17	4	1	5	0	
Audi			AUD1Z	2	0	2	2	0	2	0	
Audi	A8	95-03	AUD2Z	10	4	14	4	1	5	0	
Audi	A4	95-01	AUD3Z	974	145	1119	135	33	168	1	Medium
Audi	A8/S8/A6		AUD4Z	124	11	135	23	3	26	0	
Audi	A3/S3	97-04	AUD5Z	434	85	519	78	9	87	1	Small
Audi	TT	99-06	AUD6Z	134	19	153	16	2	18	0	
Audi	A4	01-08	AUD7Z	714	115	829	86	10	96	1	Medium
Audi	A8	03-10	AUD9Z	6	1	7	.	.	.	0	
Audi	Others		AUDIZ	1535	267	1802	267	71	338	0	
BMW	Z3 E36	97-03	BM10Z	223	35	258	41	10	51	1	Medium
BMW	Z4 E85	03-09	BM12Z	63	10	73	9	2	11	0	
BMW	5 Series E60 / E61	03-10	BM13Z	223	36	259	24	5	29	1	Medium
BMW	X5	01-08	BM14Z	664	81	745	54	7	61	1	SUV - Large
BMW	6 Series E63 / E64	04-10	BM15Z	12	2	14	1	0	1	0	
BMW	X3 E83	04-10	BM16Z	49	5	54	5	2	7	0	
BMW	1 Series E81 / E82 / E87 / E88	04-10	BM17Z	252	59	311	43	5	48	1	Small
BMW	3 Series E90 /E91 /E92 /E93	05-10	BM18Z	509	122	631	88	8	96	1	Medium
BMW	X6 E71 / E72	08-10	BM21Z	5	2	7	1	0	1	0	
BMW	Z4 E89	09-10	BM23Z	1	0	1	1	0	1	0	
BMW	5 Series F10	10-10	BM24Z	1	0	1	.	.	.	0	
BMW	3 Series E30	82-91	BM3 A	3887	640	4527	727	163	890	1	Medium
BMW	3 Series E36	92-98	BM3 B	5531	1024	6555	1079	196	1275	1	Medium
BMW	3 Series E46	99-06	BM3 C	3088	683	3771	491	98	589	1	Medium
BMW	3 Others		BM3 Z	112	49	161	49	13	62	0	
BMW	5 Series E28	82-88	BM5 A	1015	128	1143	120	29	149	1	Medium

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
BMW	5 Series E34	89-95	BM5 B	916	138	1054	166	36	202	1	Medium
BMW	5 Series E39	96-03	BM5 C	915	120	1035	143	26	169	1	Medium
BMW	5 Others		BM5 Z	27	12	39	11	3	14	0	
BMW	6 Series E24	86-89	BM6 Z	6	0	6	1	0	1	0	
BMW	7 Series E23	82-86	BM7 A	197	16	213	25	7	32	1	Large
BMW	7 Series E32	87-94	BM7 B	338	53	391	58	18	76	1	Large
BMW	7 Series E38	95-01	BM7 C	209	22	231	32	5	37	1	Large
BMW	7 Series E65	02-08	BM7 D	66	9	75	5	1	6	0	
BMW	7 Others		BM7 Z	14	3	17	2	1	3	0	
BMW	8 Series E31	90-99	BM8 Z	23	1	24	1	0	1	0	
BMW	Others		BM99Z	1315	228	1543	277	64	341	0	
Chrysler	Voyager	97-01	CHR1Z	505	81	586	64	8	72	1	People Mover
Chrysler	Neon	96-99	CHR2Z	521	111	632	89	20	109	1	Small
Chrysler	Neon	00-02	CHR3Z	127	27	154	23	7	30	1	Small
Chrysler	PT Cruiser	00-10	CHR4Z	198	43	241	45	4	49	1	Medium
Chrysler	Crossfire	03-08	CHR6Z	17	2	19	1	1	2	0	
Chrysler	300C	06-10	CHR7Z	112	13	125	12	2	14	0	
Chrysler	Sebring	07-10	CHR8Z	12	2	14	2	0	2	0	
Chrysler	Grand Voyager RG	01-07	CHR9Z	109	28	137	10	2	12	0	
Chrysler	Others		CHRYZ	16	1	17	9	0	9	0	
Citroen	BX	86-94	CI1 Z	95	4	99	31	7	38	0	
Citroen	C3 Pluriel	04-10	CI10Z	19	3	22	2	0	2	0	
Citroen	C4	05-10	CI11Z	125	27	152	18	4	22	1	Small
Citroen	C2	04-08	CI12Z	26	3	29	2	0	2	0	
Citroen	Berlingo	08-10	CI13Z	46	12	58	2	1	3	0	
Citroen	C5	08-10	CI15Z	5	2	7	1	0	1	0	
Citroen	Dispatch	08-10	CI16Z	3	0	3	.	.	.	0	
Citroen	AX	91-93	CI3 Z	5	1	6	16	4	20	0	

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Citroen	Xantia	94-00	CI4 Z	63	15	78	21	4	25	0	
Citroen	Berlingo	99-08	CI5 Z	121	20	141	6	4	10	0	
Citroen	Xsara	00-05	CI6 Z	92	31	123	27	2	29	1	Small
Citroen	XM	91-00	CI7 Z	7	1	8	1	1	2	0	
Citroen	C5	01-08	CI8 Z	102	20	122	13	3	16	0	
Citroen	C3	02-10	CI9 Z	132	40	172	21	4	25	1	Light
Citroen	Others		CI99Z	65	4	69	4	1	5	0	
Daewoo	1.5i	94-95	DA01Z	200	64	264	56	8	64	1	Small
Daewoo	Cielo	95-97	DA03Z	3965	1250	5215	942	214	1156	1	Small
Daewoo	Espero	95-97	DA05Z	838	266	1104	198	54	252	1	Medium
Daewoo	Nubira	97-03	DA06Z	3204	843	4047	651	146	797	1	Small
Daewoo	Lanos	97-03	DA07Z	4944	1552	6496	1152	295	1447	1	Small
Daewoo	Leganza	97-02	DA08Z	796	195	991	159	36	195	1	Medium
Daewoo	Matiz	99-04	DA10Z	724	410	1134	328	68	396	1	Light
Daewoo	Tacuma	00-04	DA11Z	107	36	143	18	9	27	1	Medium
Daewoo	Lacetti	03-04	DA12Z	165	48	213	31	8	39	1	Small
Daewoo	Kalos	03-04	DA13Z	377	136	513	94	31	125	1	Light
Daewoo / Ssangong	Musso	98-02	DA09Z	314	40	354	39	19	58	1	SUV - Medium
Daihatsu	Charade	82-86	D1 A	1938	595	2533	678	199	877	1	Light
Daihatsu	Charade	87	D1 B	332	102	434	153	28	181	0	
Daihatsu	Charade	88-92	D1 C	7337	2097	9434	1497	375	1872	1	Light
Daihatsu	Charade	93-00	D1 D	7226	1940	9166	1174	292	1466	1	Light
Daihatsu	Charade Others		D1 Z	261	164	425	118	38	156	0	
Daihatsu	Feroza / Rocky	89-97	D11 Z	1133	255	1388	195	57	252	1	SUV - Compact
Daihatsu	Handivan	82-90	D12 Z	714	302	1016	237	63	300	1	Commercial - Van
Daihatsu	Hi-Jet	82-90	D13 Z	136	75	211	69	22	91	1	Commercial - Van
Daihatsu	Rocky / Rugger	85-98	D14 Z	555	153	708	100	51	151	1	SUV - Compact
Daihatsu	Pyzar	97-01	D15 Z	388	106	494	73	17	90	1	Light

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Daihatsu	Move	97-99	D16 Z	72	25	97	30	7	37	0	
Daihatsu	Sirion / Storia	98-04	D17 Z	1494	502	1996	419	83	502	1	Light
Daihatsu	Terios	97-05	D18 Z	825	320	1145	250	54	304	1	SUV - Compact
Daihatsu	Handivan / Cuore	99-03	D19 Z	227	97	324	61	15	76	1	Commercial - Van
Daihatsu	Applause	89-99	D2 Z	3406	860	4266	595	137	732	1	Small
Daihatsu	YRV	01-04	D20 Z	7	8	15	10	1	11	0	
Daihatsu	Charade	03-05	D21 Z	68	32	100	30	2	32	1	Light
Daihatsu	Copen	03-06	D22 Z	16	5	21	4	2	6	0	
Daihatsu	Sirion / Storia	05-05	D23 Z	38	7	45	22	5	27	0	
Daihatsu	Mira	90-96	D3 Z	738	328	1066	311	88	399	1	Light
Daihatsu	Delta		D4 Z	1631	240	1871	124	44	168	0	
Daihatsu	F20/25/50/55/60/65		D5 Z	81	32	113	18	10	28	0	
Daihatsu	Others		D99 Z	1162	359	1521	370	111	481	0	
Dodge	Caliber	06-10	DO1 Z	20	8	28	8	0	8	0	
Dodge	Avenger	07-10	DO2 Z	12	0	12	.	.	.	0	
Dodge	Nitro	07-10	DO3 Z	26	5	31	5	1	6	0	
Dodge	Journey	08-10	DO4 Z	8	0	8	1	0	1	0	
Ferrari			FERAZ	12	1	13	2	0	2	0	
Fiat	Argenta	83-85	FI01Z	13	4	17	3	1	4	0	
Fiat	Croma	88-89	FI02Z	22	5	27	9	1	10	0	
Fiat	Regata	84-88	FI03Z	244	34	278	27	8	35	1	Small
Fiat	Superbrava	82-85	FI04Z	48	15	63	9	6	15	0	
Fiat	X-1/9		FI05Z	6	3	9	2	1	3	0	
Fiat	X-1/9	82-85	FI11Z	6	1	7	1	0	1	0	
Fiat	Ducato	02-07	FI12Z	78	8	86	18	4	22	0	
Fiat	Punto	06-09	FI13Z	45	9	54	3	2	5	0	
Fiat	500	08-10	FI15Z	8	3	11	2	0	2	0	
Fiat	Ritmo	08-09	FI16Z	3	1	4	1	0	1	0	

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Fiat	Scudo	08-10	FI17Z	5	0	5	.	.	.	0	
Fiat	Others		FI99Z	155	19	174	50	10	60	0	
Ford	Laser /Met	90	F01 B	6997	1690	8687	1638	361	1999	0	
Ford	Laser	91-94	F01 C	16342	3954	20296	3622	862	4484	1	Small
Ford	Laser	95-97	F01 D	5022	1276	6298	1076	262	1338	1	Small
Ford	Laser /Met Others		F01 Z	862	470	1332	360	95	455	0	
Ford	Cortina	82-82	F02 Z	29	11	40	311	81	392	0	
Ford	Telstar Others		F04 Z	268	123	391	94	25	119	0	
Ford	Escort	82-82	F05 Z	30	3	33	3	1	4	0	
Ford	Falcon XE/XF	82-88	F06 Z	59896	10172	70068	9156	2876	12032	1	Large
Ford	Fairlane Z & LTD F	82-87	F07 Z	6279	1036	7315	961	287	1248	1	Large
Ford	Falcon EA / Falcon EB Series I	88-Mar 92	F08 C	48780	8278	57058	7160	2073	9233	1	Large
Ford	Falcon EB Series II / Falcon ED	Apr 92-94	F08 D	21905	3702	25607	3125	950	4075	1	Large
Ford	FALCON Others		F08 Z	646	174	820	254	65	319	0	
Ford	Fairlane N & LTD D	88-94	F09 A	5246	793	6039	727	233	960	1	Large
Ford	Fairlane N & LTD D	95-98	F09 B	2038	358	2396	308	95	403	1	Large
Ford	Fairlane & LTD AU	99-02	F09 C	1223	216	1439	143	35	178	1	Large
Ford	Fairlane & LTD BA/BF	03-07	F09 D	763	110	873	42	14	56	1	Large
Ford	Fairlane N&LTD D Others		F09 Z	16	2	18	2	0	2	0	
Ford	Mondeo	95-01	F10 Z	2504	451	2955	661	116	777	1	Medium
Ford	Falcon FG	08-10	F101Z	813	111	924	102	17	119	1	Large
Ford	Mondeo	07-10	F11 Z	103	21	124	23	3	26	1	Medium
Ford	Capri	89-94	F43 Z	1765	482	2247	419	92	511	1	Small
Ford	Festiva WD/WH/WF	94-01	F44 B	14547	4961	19508	3615	931	4546	1	Light
Ford	Falcon Panel Van	82-95	F45 A	4395	551	4946	457	108	565	1	Commercial - Van
Ford	Falcon Panel Van	96-99	F45 B	590	65	655	70	15	85	1	Commercial - Van
Ford	Falcon Panel Van Others		F45 Z	5	0	5	3	0	3	0	
Ford	Falcon Ute	96-99	F46 B	2752	491	3243	368	113	481	1	Commercial - Ute

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Ford	Falcon Ute	99	F46 C	857	157	1014	132	40	172	0	
Ford	Falcon Ute AU	00-02	F46 D	3038	483	3521	423	119	542	1	Commercial - Ute
Ford	Falcon Ute BA/BF	03-08	F46 E	2829	442	3271	369	115	484	1	Commercial - Ute
Ford	Falcon Ute Others		F46 Z	15	1	16	1	0	1	0	
Ford	Ford F-Series	82-92	F47 Z	1075	137	1212	110	28	138	1	Commercial - Ute
Ford	Spectron	86-90	F52 Z	48	15	63	25	4	29	0	
Ford	Trader		F53 Z	970	88	1058	64	17	81	0	
Ford	Commercials		F54 Z	13539	2542	16081	1883	537	2420	0	
Ford	Sierra		F55 Z	3	1	4	1	0	1	0	
Ford	Bronco	82-87	F56 Z	203	28	231	15	12	27	1	SUV - Large
Ford	Probe	94-98	F61 Z	286	58	344	69	15	84	1	Medium
Ford	Falcon EF/EL	94-98	F62 Z	49235	9091	58326	7331	2045	9376	1	Large
Ford	Transit	95-00	F64 A	1264	171	1435	139	34	173	1	Commercial - Van
Ford	Transit	01-07	F64 B	857	102	959	132	20	152	1	Commercial - Van
Ford	Explorer	00-01	F65 Z	421	109	530	93	36	129	1	SUV - Large
Ford	Falcon AU	98-02	F66 Z	25398	5170	30568	3918	1041	4959	1	Large
Ford	Taurus	96-98	F67 Z	504	109	613	98	29	127	1	Large
Ford	Ka	99-02	F68 Z	473	155	628	152	37	189	1	Light
Ford	Cougar	99-03	F69 Z	631	173	804	167	30	197	1	Medium
Ford	Mustang	01-03	F71 Z	15	3	18	2	2	4	0	
Ford	Explorer	01-05	F72 Z	319	62	381	60	15	75	1	SUV - Large
Ford	Falcon BA/BF	02-08	F73 Z	17931	3426	21357	2554	666	3220	1	Large
Ford	Focus LR	02-05	F75 Z	1506	427	1933	404	71	475	1	Small
Ford	F-Series	01-06	F76 Z	299	36	335	20	13	33	1	Commercial - Ute
Ford	Territory SX/SY	04-10	F77 Z	1545	270	1815	230	42	272	1	SUV - Medium
Ford	Fiesta WP/WQ	04-08	F78 Z	114	29	143	30	1	31	1	Light
Ford	Focus LS / LT	05-09	F79 Z	1456	372	1828	302	69	371	1	Small
Ford	Fiesta WS	09-10	F82 Z	63	20	83	23	3	26	0	

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Ford	Focus LV	09-10	F83 Z	34	9	43	6	3	9	0	
Ford	Others		F99 Z	47382	7478	54860	11883	3829	15712	0	
Ford / Mazda	Laser / 323 / Familia	82-88	M01 A	43597	11582	55179	13243	3221	16464	1	Small
Ford / Mazda	Laser / 323	99-03	M01 F	6909	1831	8740	1412	283	1695	1	Small
Ford / Mazda	Telstar / 626 / MX6 / Capella	83-86	M02 B	9784	2040	11824	2730	677	3407	1	Medium
Ford / Mazda	Telstar / 626 / MX6 / Capella	88-91	M02 D	6383	1387	7770	1943	466	2409	1	Medium
Ford / Mazda	Telstar / 626 / MX6 / Capella / Cronos	92-97	M02 E	6792	1157	7949	1493	375	1868	1	Medium
Ford / Mazda	Festiva WA / 121	87-90	M09 A	7114	2266	9380	1756	468	2224	1	Light
Ford / Mazda	Escape / Tribute	01-06	M21 Z	1801	385	2186	263	70	333	1	SUV - Compact
Ford / Mazda	Courier / B-Series / Bounty	98-02	M22 A	2263	404	2667	344	109	453	1	Commercial - Ute
Ford / Mazda	Courier / Bravo / Bounty	03-06	M22 B	1510	356	1866	297	83	380	1	Commercial - Ute
Ford / Mazda	Ranger / BT-50	06-10	M30 Z	959	236	1195	190	58	248	1	Commercial - Ute
Ford / Mazda	Escape / Tribute	06-10 / 06-08	M31 Z	84	18	102	15	1	16	0	
Ford / Nissan	Falcon Ute / XFN Ute	82-95	F46 A	11764	1792	13556	1279	454	1733	1	Commercial - Ute
FSM			FSM Z	13	2	15	6	1	7	0	
FSM			NIKIZ	15	12	27	12	6	18	0	
Great Wall	SA220	09-10	GW1 Z	1	0	1	1	0	1	0	
Great Wall	V240	09-10	GW2 Z	6	0	6	.	.	.	0	
Great Wall	X240	09-10	GW3 Z	8	1	9	1	0	1	0	
Holden	Calibra	94-97	H12 Z	494	72	566	107	24	131	1	Medium
Holden	Statesman/Caprice WB	82-85	H14 A	139	23	162	32	18	50	1	Large
Holden	Stateman/Caprice VQ	90-93	H14 B	716	106	822	99	42	141	1	Large
Holden	Stateman/Caprice VR/VS	94-98	H14 C	4804	811	5615	669	201	870	1	Large
Holden	Stateman/Caprice Others		H14 Z	146	22	168	19	3	22	0	
Holden	Nova Others		H15 Z	121	33	154	33	7	40	0	
Holden	Commodore Ute VG/VP	90-93	H18 Z	2109	372	2481	242	106	348	1	Commercial - Ute
Holden	Camira	82-89	H2 Z	15882	3661	19543	3761	952	4713	1	Medium
Holden	Jackaroo		H21 Z	47	9	56	49	14	63	0	

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Holden	Kingswood		H22 Z	33	7	40	5	7	12	0	
Holden	Rodeo	96-98	H24 D	3394	682	4076	466	146	612	1	Commercial - Ute
Holden	Rodeo	99-02	H24 E	3663	750	4413	471	188	659	1	Commercial - Ute
Holden	Rodeo Others		H24 Z	196	48	244	43	11	54	0	
Holden	Shuttle / WFR Van	82-87	H26 Z	530	106	636	76	28	104	1	Commercial - Van
Holden	WB Series	82-85	H27 Z	1949	302	2251	187	99	286	1	Commercial - Ute
Holden	Torana / Sunbird		H28 Z	10	0	10	1	0	1	0	
Holden	Gemini	82-84	H3 A	6250	1483	7733	1528	383	1911	1	Small
Holden	Gemini	85	H3 B	1253	319	1572	318	76	394	0	
Holden	Gemini RB	86-87	H3 C	1068	335	1403	321	71	392	1	Small
Holden	Gemini Others		H3 Z	1	0	1	.	.	.	0	
Holden	Commodore Others		H31 Z	36	1	37	14	1	15	0	
Holden	Commodore Ute VR/VS	94-00	H34 Z	8981	1671	10652	1096	457	1553	1	Commercial - Ute
Holden	Frontera / Mu	95-03	H35 Z	488	109	597	79	23	102	1	SUV - Medium
Holden	Vectra	97-03	H36 Z	3894	892	4786	810	147	957	1	Medium
Holden	Commodore VT/VX	97-02	H37 Z	48669	10117	58786	7657	1941	9598	1	Large
Holden	Suburban	98-00	H38 Z	49	9	58	9	0	9	0	
Holden	Statesman/Caprice WH	99-03	H39 Z	1523	284	1807	213	48	261	1	Large
Holden	Astra Jap	87	H4 B	967	192	1159	183	53	236	0	
Holden	Astra TR	96-98	H4 D	1364	295	1659	313	61	374	1	Small
Holden	Astra TS	98-06	H4 E	10732	2836	13568	2121	383	2504	1	Small
Holden	Astra Others		H4 Z	70	30	100	38	9	47	0	
Holden	Commodore VU Ute	00-02	H41 Z	2527	428	2955	329	119	448	1	Commercial - Ute
Holden	Commodore VY/VZ	02-07	H42 Z	15713	3322	19035	2653	589	3242	1	Large
Holden	Commodore VY/VZ Ute	02-07	H43 Z	5322	979	6301	697	238	935	1	Commercial - Ute
Holden	Monaro	01-05	H44 Z	810	163	973	130	41	171	1	Large
Holden	Cruze	02-06	H45 Z	608	246	854	198	60	258	1	SUV - Compact
Holden	Barina XC	01-06	H46 Z	2849	856	3705	646	129	775	1	Light

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Holden	Zafira TT	01-05	H47 Z	315	76	391	51	12	63	1	People Mover
Holden	Statesman/Caprice WK/WL	03-06	H48 Z	719	125	844	72	22	94	1	Large
Holden	Adventra	03-06	H49 Z	267	51	318	53	6	59	1	SUV - Medium
Holden	Barina SB	95-00	H5 D	7421	2314	9735	1615	319	1934	1	Light
Holden	Barina Others		H5 Z	254	109	363	142	28	170	0	
Holden	Rodeo	03-08	H50 Z	4363	868	5231	553	175	728	1	Commercial - Ute
Holden	Vectra ZC	03-05	H51 Z	438	99	537	106	19	125	1	Medium
Holden	Astra AH	04-09	H55 Z	2198	573	2771	389	72	461	1	Small
Holden	Barina TK	05-10	H56 Z	1292	478	1770	348	96	444	1	Light
Holden	Viva JF	05-09	H57 Z	833	272	1105	205	40	245	1	Small
Holden	Tigra	05-06	H58 Z	33	24	57	22	5	27	0	
Holden	Captiva CG	06-10	H59 Z	486	114	600	92	11	103	1	SUV - Medium
Holden	Commodore VB-VL	82-88	H6 Z	54543	10108	64651	9089	2920	12009	1	Large
Holden	Commodore VE	06-10	H60 Z	4869	1027	5896	795	182	977	1	Large
Holden	Statesman/Caprice WM	06-10	H61 Z	150	24	174	15	3	18	0	
Holden	Commodore VE Ute	07-10	H62 Z	358	60	418	50	13	63	1	Commercial - Ute
Holden	Epica EP	07-10	H63 Z	16	10	26	9	1	10	0	
Holden	Colorado RC	08-10	H64 Z	188	37	225	32	6	38	1	Commercial - Ute
Holden	Cruze JG	09-10	H65 Z	115	37	152	43	6	49	1	Small
Holden	Others		H99 Z	35285	4984	40269	9868	3523	13391	0	
Holden / Isuzu	Jackaroo / Bighorn	82-91	H21 A	964	220	1184	246	52	298	1	SUV - Medium
Holden / Isuzu	Jackaroo / Bighorn	92-97	H21 B	907	162	1069	181	44	225	1	SUV - Medium
Holden / Isuzu	Jackaroo / Bighorn	98-02	H21 C	978	217	1195	146	47	193	1	SUV - Medium
Holden / Isuzu	Piazza	86-88	H23 Z	56	9	65	17	2	19	0	
Holden / Isuzu	Rodeo / Pickup	82-85	H24 A	823	148	971	121	37	158	1	Commercial - Ute
Holden / Isuzu	Rodeo / Pickup	86-88	H24 B	476	87	563	75	11	86	1	Commercial - Ute
Holden / Isuzu	Rodeo / Pickup	89-95	H24 C	7697	1430	9127	951	358	1309	1	Commercial - Ute
Holden / Nissan	Astra / Pulsar / Langley	84-86	N01 A	9664	2444	12108	2676	686	3362	1	Small

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Holden / Nissan	Astra / Pulsar / Vector / Sentra	88-90	N01 C	14414	3366	17780	3152	804	3956	1	Small
Holden / Suzuki	Barina / Swift / Cultus	86-88	SZ01B	3745	1277	5022	1272	338	1610	1	Light
Holden / Suzuki	Barina / Swift / Cultus	89-99	SZ01C	18418	5384	23802	4020	971	4991	1	Light
Holden / Suzuki	Scurry / Carry	82-00	SZ04Z	420	177	597	148	50	198	1	Commercial - Van
Holden / Suzuki	Drover / Sierra / Samurai / SJ410 / SJ413	82-99	SZ07Z	4199	1298	5497	949	268	1217	1	SUV - Compact
Holden / Toyota	Commodore VN/VP / Lexcen	89-93	H1 Z	64412	12268	76680	10026	3421	13447	1	Large
Holden / Toyota	Commodore VR/VS / Lexcen	93-97	H33 Z	61921	11569	73490	8974	2707	11681	1	Large
Holden / Toyota	Apollo JK/JL / Camry / Vista	88-92	T05 A	36307	7195	43502	5387	1436	6823	1	Medium
Holden / Toyota	Apollo JM/JP / Camry / Sceptor	93-97	T05 B	28371	6010	34381	4139	1154	5293	1	Medium
Honda	Civic	82-83	O1 A	686	159	845	453	111	564	1	Small
Honda	Civic / Ballade / Shuttle	84-87	O1 B	2660	624	3284	1187	308	1495	1	Small
Honda	Civic / Shuttle	88-91	O1 C	4529	1053	5582	1590	363	1953	1	Small
Honda	Civic	92-95	O1 D	5484	1184	6668	1347	270	1617	1	Small
Honda	Civic	96-00	O1 E	5632	1308	6940	1091	221	1312	1	Small
Honda	Civic Others		O1 Z	224	84	308	542	121	663	0	
Honda	CRX	87-91	O10 A	388	88	476	275	87	362	1	Small
Honda	CRX	92-98	O10 B	249	50	299	68	19	87	1	Small
Honda	CRX Others		O10 Z	11	4	15	35	11	46	0	
Honda	Odyssey	95-00	O17 A	574	103	677	274	35	309	1	People Mover
Honda	Odyssey	00-02	O17 B	253	42	295	31	6	37	1	People Mover
Honda	CR-V	97-01	O18 A	2984	558	3542	458	90	548	1	SUV - Compact
Honda	CR-V	02-06	O18 B	2205	515	2720	354	61	415	1	SUV - Compact
Honda	HR-V	99-02	O19 Z	507	111	618	75	22	97	1	SUV - Compact
Honda	Legend	86-95	O2 B	932	121	1053	164	41	205	1	Large
Honda	Legend	96-98	O2 C	95	9	104	10	0	10	0	
Honda	Legend	99-04	O2 D	57	7	64	8	1	9	0	
Honda	Legend Others		O2 Z	12	8	20	55	12	67	0	

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Honda	S2000	99-09	O20 Z	244	32	276	20	3	23	1	Small
Honda	Civic	01-05	O21 Z	1688	387	2075	324	73	397	1	Small
Honda	Jazz / Fit	02-08	O22 Z	1439	408	1847	403	84	487	1	Light
Honda	Insight	01-04	O23 Z	1	0	1	.	.	.	0	
Honda	MDX	03-06	O24 Z	107	15	122	9	4	13	0	
Honda	Accord Euro	03-08	O25 Z	1568	333	1901	258	46	304	1	Medium
Honda	Accord	03-07	O26 Z	799	182	981	149	29	178	1	Medium
Honda	Odyssey	04-09	O27 Z	387	84	471	60	4	64	1	People Mover
Honda	Civic	06-10	O28 Z	997	236	1233	206	34	240	1	Small
Honda	Legend	06-10	O29 Z	1	2	3	2	0	2	0	
Honda	Accord	82-85	O3 A	2018	449	2467	1023	249	1272	1	Medium
Honda	Accord	86-90	O3 B	2382	419	2801	976	204	1180	1	Medium
Honda	Accord	91-93	O3 C	1745	249	1994	407	101	508	1	Medium
Honda	Accord	94-98	O3 D	3665	603	4268	754	168	922	1	Medium
Honda	Accord	99-02	O3 E	717	138	855	183	28	211	1	Medium
Honda	Accord Others		O3 Z	131	50	181	323	74	397	0	
Honda	CR-V	07-10	O30 Z	435	80	515	58	17	75	1	SUV - Compact
Honda	Accord	08-10	O31 Z	175	25	200	17	11	28	1	Medium
Honda	Accord Euro	08-10	O32 Z	94	12	106	13	2	15	0	
Honda	Jazz GE	08-10	O33 Z	116	31	147	22	8	30	1	Light
Honda	Odyssey	09-10	O35 Z	12	3	15	1	1	2	0	
Honda	Prelude	82-82	O4 A	215	38	253	32	6	38	1	Medium
Honda	Prelude	83-91	O4 B	3671	631	4302	1327	323	1650	1	Medium
Honda	Prelude	92-96	O4 C	1767	276	2043	385	97	482	1	Medium
Honda	Prelude	97-02	O4 D	780	150	930	140	25	165	1	Medium
Honda	Prelude Others		O4 Z	59	25	84	158	32	190	0	
Honda	Integra	86-88	O5 A	661	133	794	360	89	449	1	Small
Honda	Integra	89	O5 B	458	92	550	283	73	356	0	

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Honda	Integra	90-92	O5 C	793	157	950	322	69	391	1	Small
Honda	Integra	93	O5 D	247	45	292	40	9	49	0	
Honda	Integra	93-01	O5 E	1192	233	1425	377	75	452	1	Small
Honda	Integra	02-06	O5 F	296	81	377	47	10	57	1	Small
Honda	Integra Others		O5 Z	39	21	60	105	26	131	0	
Honda	Concerto	89-93	O6 Z	570	130	700	236	59	295	1	Small
Honda	NSX	91-02	O7 Z	18	2	20	4	1	5	0	
Honda	Acty	83-86	O8 Z	275	60	335	44	16	60	1	Commercial - Van
Honda	City	83-86	O9 Z	353	135	488	648	137	785	1	Light
Honda	City	09-10	O91 Z	43	7	50	10	1	11	0	
Honda	Others		O99 Z	4796	889	5685	1531	489	2020	0	
Hummer	H3	07-10	HU01Z	17	2	19	2	1	3	0	
Hyundai	Excel	86-90	HY1 A	2996	877	3873	953	245	1198	1	Small
Hyundai	Excel	90-94	HY1 B	9841	2834	12675	2272	562	2834	1	Small
Hyundai	Excel / Accent	95-00	HY1 C	26991	8260	35251	5811	1270	7081	1	Small
Hyundai	Excel Others		HY1 Z	405	162	567	147	36	183	0	
Hyundai	Trajet	00-07	HY10Z	53	10	63	11	3	14	0	
Hyundai	Elantra	00-06	HY11Z	2924	770	3694	487	100	587	1	Small
Hyundai	Santa Fe	00-06	HY12Z	518	103	621	76	18	94	1	SUV - Medium
Hyundai	Getz / TB	02-10	HY13Z	3939	1117	5056	824	184	1008	1	Light
Hyundai	Sonata	98-01	HY15A	1083	238	1321	156	34	190	1	Medium
Hyundai	Sonata EF	02-05	HY15B	273	69	342	41	5	46	1	Medium
Hyundai	Tiburon	02-10	HY16Z	108	32	140	21	3	24	1	Medium
Hyundai	Terracan	01-07	HY17Z	281	50	331	34	6	40	1	SUV - Medium
Hyundai	Elantra Lavita	01-03	HY18Z	64	6	70	34	2	36	0	
Hyundai	Tucson	04-10	HY19Z	232	45	277	45	11	56	1	SUV - Compact
Hyundai	Sonata	89-97	HY2 Z	3906	838	4744	738	146	884	1	Large
Hyundai	Sonata NF	05-10	HY20Z	156	44	200	24	2	26	1	Medium

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Hyundai	Grandeur TG	06-10	HY21Z	28	2	30	3	0	3	0	
Hyundai	Accent	06-10	HY22Z	240	67	307	66	5	71	1	Small
Hyundai	Santa Fe	06-10	HY23Z	25	3	28	7	0	7	0	
Hyundai	i30	07-10	HY25Z	281	72	353	74	17	91	1	Small
Hyundai	iLoad	08-10	HY27Z	80	10	90	13	3	16	0	
Hyundai	Elantra	07-10	HY28Z	26	12	38	10	2	12	0	
Hyundai	ix35	10-10	HY29Z	11	5	16	4	1	5	0	
Hyundai	Elantra	10-10	HY32Z	1	3	4	2	1	3	0	
Hyundai	S Coupe	90-96	HY4 Z	1418	380	1798	302	70	372	1	Small
Hyundai	Lantra	91-95	HY5 A	2466	601	3067	418	103	521	1	Small
Hyundai	Lantra	96-00	HY5 B	4934	1149	6083	913	205	1118	1	Small
Hyundai	Lantra Others		HY5 Z	50	13	63	21	3	24	0	
Hyundai	Coupe	96-00	HY7 Z	1025	225	1250	166	44	210	1	Small
Hyundai	Grandeaur / XG	99-00	HY8 Z	381	64	445	42	4	46	1	Large
Hyundai	Accent	00-06	HY9 Z	5286	1471	6757	996	220	1216	1	Small
Hyundai	Others		HY99Z	1529	387	1916	775	295	1070	0	
Isuzu	NKR Series		IS01Z	1041	129	1170	86	17	103	0	
Isuzu	NPR Series		IS02Z	2509	198	2707	109	32	141	0	
Isuzu	D-Max	08-10	IS03Z	21	2	23	2	0	2	0	
Isuzu	Others		IS99Z	3308	259	3567	269	105	374	0	
Jaguar	XJ6	82-86	J01 A	362	57	419	42	15	57	1	Large
Jaguar	XJ6	87-94	J01 B	517	66	583	66	11	77	1	Large
Jaguar	XJ6	95-97	J01 C	123	13	136	11	6	17	0	
Jaguar	XJ8	98-03	J01 D	16	1	17	1	1	2	0	
Jaguar	XJ6 Others		J01 Z	25	3	28	5	0	5	0	
Jaguar	V12 Saloon		J02 Z	11	2	13	2	0	2	0	
Jaguar	XJS	82-96	J04 Z	70	11	81	10	1	11	0	
Jaguar	XJR	95-03	J05 Z	4	0	4	1	0	1	0	

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Jaguar	XK8 / XKR	96-05	J07 Z	36	4	40	4	1	5	0	
Jaguar	S-Type	99-08	J08 Z	210	24	234	26	5	31	1	Large
Jaguar	X-Type	02-10	J09 Z	188	31	219	25	3	28	1	Medium
Jaguar	XJ	03-09	J10 Z	35	6	41	4	2	6	0	
Jaguar	XK	06-10	J11 Z	6	1	7	.	.	.	0	
Jaguar	XF	08-10	J12 Z	9	1	10	.	.	.	0	
Jaguar	Others		J99 Z	390	52	442	68	21	89	0	
Jaguar			JAG Z	5	1	6	2	1	3	0	
Jeep	Cherokee XJ	96-00	JE01Z	1403	242	1645	250	76	326	1	SUV - Medium
Jeep	Grand Cherokee ZG	96-99	JE02Z	324	44	368	59	11	70	1	SUV - Large
Jeep	Wrangler	96-04	JE03Z	393	73	466	77	22	99	1	SUV - Medium
Jeep	Grand Cherokee WG	99-05	JE04Z	306	45	351	64	13	77	1	SUV - Large
Jeep	Cherokee KJ	01-07	JE05Z	312	60	372	63	15	78	1	SUV - Medium
Jeep	Grand Cherokee WH	05-10	JE06Z	68	7	75	7	2	9	0	
Jeep	Commander	06-10	JE07Z	24	4	28	4	0	4	0	
Jeep	Wrangler	05-10	JE08Z	98	19	117	22	3	25	1	SUV - Medium
Jeep	Patriot	07-10	JE09Z	9	2	11	2	0	2	0	
Jeep	Compass	07-10	JE10Z	8	1	9	1	0	1	0	
Jeep	Others		JEEPZ	154	23	177	31	7	38	0	
Kia	Sportage	98-03	K01 Z	832	211	1043	176	38	214	1	SUV - Compact
Kia	Ceres	92-00	K02 Z	1083	306	1389	251	78	329	1	Commercial - Ute
Kia	Mentor	97-00	K03 Z	17	5	22	4	1	5	0	
Kia	Credos	98-01	K04 Z	74	29	103	21	5	26	1	Medium
Kia	Rio	00-05	K05 Z	2297	832	3129	567	152	719	1	Small
Kia	Carens	00-02	K06 Z	64	25	89	15	4	19	0	
Kia	Carnival	99-06	K07 Z	1100	217	1317	151	38	189	1	People Mover
Kia	Spectra	01-04	K08 Z	301	95	396	65	18	83	1	Small
Kia	Optima	01-06	K09 Z	93	30	123	23	4	27	1	Large

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Kia	K2700	02-08	K10 Z	150	25	175	17	10	27	1	Commercial - Ute
Kia	Pregio	02-06	K11 Z	701	143	844	108	27	135	1	Commercial - Van
Kia	Sorento	03-09	K12 Z	265	55	320	39	17	56	1	SUV - Compact
Kia	Cerato LD	04-08	K13 Z	484	178	662	124	27	151	1	Small
Kia	Rio JB	05-10	K14 Z	735	241	976	197	61	258	1	Small
Kia	Sportage KM	05-10	K15 Z	109	33	142	22	9	31	1	SUV - Compact
Kia	Magentis	06-09	K16 Z	32	14	46	9	3	12	0	
Kia	Carnival	06-10	K17 Z	259	46	305	40	5	45	1	People Mover
Kia	K2900	08-10	K18 Z	5	1	6	1	1	2	0	
Kia	Cerato TD	09-10	K20 Z	14	4	18	4	2	6	0	
Kia	Soul	09-10	K21 Z	2	0	2	.	.	.	0	
Kia	Sorento	09-10	K22 Z	1	0	1	.	.	.	0	
Lada			LADAZ	223	89	312	116	32	148	0	
Lada	Niva	84-99	NIVAZ	344	73	417	78	20	98	1	SUV - Compact
Lada	Samara	88-90	SAMAZ	51	10	61	11	5	16	0	
Lancia			LANCZ	33	3	36	2	2	4	0	
Land Rover	Defender	92-10	LRO1Z	351	71	422	46	27	73	1	SUV - Medium
Land Rover	Discovery	91-02	LRO2A	1280	225	1505	182	50	232	1	SUV - Large
Land Rover	Discovery	02-04	LRO2B	111	19	130	13	3	16	0	
Land Rover	Discovery 3	05-09	LRO3Z	20	3	23	1	0	1	0	
Land Rover	Discovery 4	09-10	LRO4Z	11	1	12	3	0	3	0	
Land Rover	Others		LROVZ	313	44	357	55	15	70	0	
Land Rover	Freelander 2	07-10	RO10Z	6	2	8	1	1	2	0	
Land Rover	Freelander	98-06	RO5 Z	297	52	349	48	15	63	1	SUV - Compact
Land Rover	Range Rover	82-94	RROV1	973	138	1111	152	48	200	1	SUV - Large
Land Rover	Range Rover	95-02	RROV2	211	33	244	46	7	53	1	SUV - Large
Land Rover	Range Rover	02-05	RROV3	46	2	48	1	0	1	0	
Land Rover	Range Rover	05-10	RROV4	56	8	64	9	1	10	0	

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Land Rover	Range Rover Others		RROVZ	12	8	20	9	3	12	0	
Lexus	ES300 / Windom	92-01	T17 Z	671	119	790	150	35	185	1	Large
Lexus	LS400 / Celsior	90-00	T25 Z	223	38	261	36	5	41	1	Large
Lexus	IS200 / IS300	99-04	T26 Z	758	134	892	60	8	68	1	Medium
Lexus	GS300	97-04	T28 Z	181	21	202	11	1	12	0	
Lexus	LS430	00-04	T31 Z	52	4	56	3	0	3	0	
Lexus	ES300	01-05	T34 Z	124	13	137	4	2	6	0	
Lexus	SC430	01-10	T35 Z	27	2	29	3	0	3	0	
Lexus	RX330	03-05	T43 Z	281	35	316	21	9	30	1	SUV - Medium
Lexus	GS300/450h/460	05-09	T44 Z	57	4	61	6	0	6	0	
Lexus	IS350 / IS250 / IS F	05-10	T48 Z	293	45	338	23	5	28	1	Medium
Lexus	RX350/400h/450h	06-10	T49 Z	91	5	96	8	2	10	0	
Lexus	LS460 / 600hL	07-10	T55 Z	7	0	7	.	.	.	0	
Lexus	LX570	08-10	T60 Z	7	1	8	.	.	.	0	
Leyland			LEY Z	106	12	118	11	5	16	0	
Maserati			MASRZ	7	0	7	1	0	1	0	
Mazda	323	89	M01 B	535	137	672	740	160	900	0	
Mazda	323 / Familia / Lantis	90-93	M01 C	4359	976	5335	1802	380	2182	1	Small
Mazda	323	94	M01 D	1358	323	1681	239	61	300	0	
Mazda	323 / Familia / Lantis	95-98	M01 E	5460	1331	6791	1247	258	1505	1	Small
Mazda	323 Others		M01 Z	352	178	530	315	70	385	0	
Mazda	626/MX6 / Telstar	82	M02 A	11924	2575	14499	2667	762	3429	0	
Mazda	626/MX6 / Telstar	87	M02 C	3367	537	3904	419	115	534	0	
Mazda	626	98-02	M02 F	2087	465	2552	489	97	586	1	Medium
Mazda	626/MX6 / Telstar Others		M02 Z	267	111	378	73	35	108	0	
Mazda	929 / Luce	82-90	M03 A	3363	643	4006	680	186	866	1	Large
Mazda	929	91	M03 B	220	37	257	40	13	53	0	
Mazda	929 / Sentia / Efini MS-9	92-96	M03 C	263	48	311	47	12	59	1	Large

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Mazda	929 Others		M03 Z	86	41	127	31	11	42	0	
Mazda	121 / Autozam Review	94-96	M09 B	3749	1225	4974	858	208	1066	1	Light
Mazda	121 Metro / Demio	97-02	M09 C	2812	813	3625	681	155	836	1	Light
Mazda	121 / Ford Festiva WA Others		M09 Z	175	99	274	120	36	156	0	
Mazda	RX7	82-85	M10 A	661	130	791	129	39	168	1	Medium
Mazda	RX7	86-91	M10 B	400	61	461	100	29	129	1	Medium
Mazda	RX7	92-98	M10 C	79	13	92	24	8	32	0	
Mazda	RX7 Others		M10 Z	11	1	12	13	6	19	0	
Mazda	MX5 / Eunos Roadster	89-97	M11 A	459	102	561	97	19	116	1	Small
Mazda	MX5 / Eunos Roadster	98-05	M11 B	426	122	548	79	14	93	1	Small
Mazda	MX5 Others		M11 Z	8	9	17	10	2	12	0	
Mazda	Commercials		M14 Z	8845	1566	10411	1223	402	1625	0	
Mazda	MPV	94-99	M15 A	375	58	433	32	5	37	1	People Mover
Mazda	MPV	00-06	M15 B	234	32	266	19	4	23	1	People Mover
Mazda	MPV Others		M15 Z	5	1	6	1	0	1	0	
Mazda	Eunos 30X / Presso / MX-3 / Autozam AZ-3	90-97	M16 Z	578	129	707	100	23	123	1	Small
Mazda	Eunos 500	93-99	M17 Z	364	94	458	88	13	101	1	Medium
Mazda	Eunos 800	94-00	M18 Z	131	18	149	21	5	26	1	Medium
Mazda	Bravo / Ford Courier Others		M22 Z	195	25	220	85	23	108	0	
Mazda	Premacy	01-03	M23 Z	3	0	3	17	3	20	0	
Mazda	2	02-07	M24 Z	986	289	1275	196	67	263	1	Light
Mazda	6	02-07	M25 Z	1981	503	2484	488	78	566	1	Medium
Mazda	RX-8	03-10	M26 Z	271	43	314	31	3	34	1	Medium
Mazda	3 / Axela	03-09	M27 Z	5038	1292	6330	980	192	1172	1	Small
Mazda	MX-5	05-10	M28 Z	83	26	109	19	6	25	1	Small
Mazda	CX-7	06-10	M29 Z	264	51	315	37	4	41	1	SUV - Compact
Mazda	CX-9	07-10	M32 Z	104	12	116	8	0	8	0	

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Mazda	2	07-10	M33 Z	487	137	624	127	24	151	1	Light
Mazda	6	08-10	M34 Z	155	34	189	44	5	49	1	Medium
Mazda	3 / Axela	09-10	M35 Z	131	32	163	42	9	51	1	Small
Mazda	Others		M99 Z	11986	2066	14052	3274	934	4208	0	
Mercedes Benz	100 Series		ME1 Z	205	29	234	33	8	41	0	
Mercedes Benz	C180		ME10Z	48	11	59	11	2	13	0	
Mercedes Benz	C-Class W201	87-93	ME11Z	874	158	1032	147	38	185	1	Medium
Mercedes Benz	C-Class W202	95-00	ME12Z	1541	246	1787	206	42	248	1	Medium
Mercedes Benz	CLK C208	97-03	ME13Z	231	40	271	27	8	35	1	Medium
Mercedes Benz	E-Class W123	82-85	ME14Z	456	75	531	48	11	59	1	Large
Mercedes Benz	E-Class W124	86-94	ME15Z	1337	219	1556	189	39	228	1	Large
Mercedes Benz	E-Class W210	96-02	ME16Z	849	125	974	99	19	118	1	Large
Mercedes Benz	S-CLASS W107		ME17Z	38	7	45	8	0	8	0	
Mercedes Benz	S-Class W126	82-92	ME18Z	1039	138	1177	117	27	144	1	Large
Mercedes Benz	S-Class R129	93-02	ME19Z	86	8	94	9	1	10	0	
Mercedes Benz	200 Series		ME2 Z	349	27	376	40	17	57	0	
Mercedes Benz	S-Class C140	93-98	ME20Z	237	17	254	13	4	17	0	
Mercedes Benz	SLK R170	97-04	ME21Z	199	39	238	23	3	26	1	Medium
Mercedes Benz	A-Class W168	98-04	ME22Z	385	87	472	51	11	62	1	Small
Mercedes Benz	MB100 / MB140	99-04	ME24Z	415	42	457	32	9	41	1	Commercial - Van
Mercedes Benz	S-Class W220	99-06	ME25Z	170	18	188	11	2	13	0	
Mercedes Benz	Vito	99-04	ME26Z	626	58	684	46	12	58	1	Commercial - Van
Mercedes Benz	M-Class W163	98-05	ME27Z	593	67	660	46	11	57	1	SUV - Large
Mercedes Benz	CL500/600 C215	98-00	ME28Z	11	2	13	2	1	3	0	
Mercedes Benz	C-Class W203	00-07	ME29Z	1072	180	1252	111	22	133	1	Medium
Mercedes Benz	300 Series		ME3 Z	452	38	490	42	11	53	0	
Mercedes Benz	Sprinter	98-06	ME30Z	565	86	651	89	19	108	1	Commercial - Van
Mercedes Benz	G-Class	83-88	ME31Z	3	1	4	1	0	1	0	

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Mercedes Benz	CLK C209	03-09	ME32Z	257	36	293	27	4	31	1	Medium
Mercedes Benz	E-Class W211	02-09	ME33Z	337	51	388	27	5	32	1	Large
Mercedes Benz	S-Class R230	02-10	ME34Z	29	4	33	5	0	5	0	
Mercedes Benz	SLK R171	04-10	ME35Z	51	9	60	2	0	2	0	
Mercedes Benz	M-Class W164	05-10	ME36Z	138	8	146	10	1	11	0	
Mercedes Benz	A-Class W169	05-10	ME37Z	54	14	68	11	2	13	0	
Mercedes Benz	CLS W219	05-10	ME38Z	27	6	33	4	0	4	0	
Mercedes Benz	B-Class W245	05-10	ME39Z	68	4	72	7	1	8	0	
Mercedes Benz	400 Series		ME4 Z	202	39	241	31	8	39	0	
Mercedes Benz	S-Class W221	06-10	ME40Z	22	4	26	1	0	1	0	
Mercedes Benz	R-Class W251	06-10	ME41Z	11	1	12	.	.	.	0	
Mercedes Benz	C-Class W204	07-10	ME42Z	128	18	146	20	3	23	1	Medium
Mercedes Benz	CL W216	07-10	ME43Z	1	0	1	.	.	.	0	
Mercedes Benz	Sprinter	06-10	ME44Z	29	4	33	9	1	10	0	
Mercedes Benz	E-Class W212	09-10	ME45Z	8	1	9	2	0	2	0	
Mercedes Benz	Vito / Viano	04-10	ME46Z	85	8	93	12	3	15	0	
Mercedes Benz	500 Series		ME5 Z	38	5	43	4	1	5	0	
Mercedes Benz	Others		ME99Z	2208	219	2427	344	100	444	0	
MG	MGF / MG TF	99-05	RO4 Z	246	37	283	40	9	49	1	Small
MG	ZT	02-05	RO6 Z	22	4	26	3	0	3	0	
MG	ZR	05-05	RO9 Z	1	1	2	29	3	32	0	
Mini	Mini Cooper	02-10	BM11Z	251	69	320	95	17	112	1	Small
Mitsubishi	Mirage / Colt	82-88	I01 Z	12148	3286	15434	3440	811	4251	1	Light
Mitsubishi	Sigma / Galant / Sapporo / Lambda	82-84	I02 Z	12754	2251	15005	2824	697	3521	1	Medium
Mitsubishi	Magna TM/TN/TP / Sigma / V3000	85-90	I04 Z	30113	5239	35352	4908	1318	6226	1	Large
Mitsubishi	Charger / Valiant		I05 Z	33	3	36	2	1	3	0	
Mitsubishi	Magna TE/TF/TH/TJ / Verada KE/KF/KH/KJ / Diamante	96-03	I06 A	22141	3919	26060	3026	679	3705	1	Large

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Mitsubishi	Starion	82-87	I07 Z	180	34	214	46	23	69	1	Medium
Mitsubishi	Lancer / Mirage CA	89-90	I09 A	5773	1168	6941	1348	306	1654	1	Small
Mitsubishi	Lancer / Mirage CB	91-92	I09 B	919	216	1135	390	72	462	1	Small
Mitsubishi	Lancer / Mirage CC	93-95	I09 C	8218	1798	10016	1727	380	2107	1	Small
Mitsubishi	Lancer / Mirage CE	96-03	I09 D	21157	5491	26648	4082	766	4848	1	Small
Mitsubishi	Lancer Others		I09 Z	4	1	5	500	113	613	0	
Mitsubishi	Nimbus / Chariot / Spacewagon	85-91	I10 A	499	100	599	223	42	265	1	People Mover
Mitsubishi	Nimbus / Chariot	92-98	I10 B	912	184	1096	269	47	316	1	People Mover
Mitsubishi	Nimbus	99-03	I10 C	353	51	404	47	6	53	1	People Mover
Mitsubishi	Cordia	83-87	I12 Z	1760	349	2109	567	152	719	1	Small
Mitsubishi	Magna TR/TS / Verada KR/KS / V3000 / Diamante	91-96	I15 Z	30090	4925	35015	4663	1021	5684	1	Large
Mitsubishi	Galant	89-93	I16 A	14	1	15	609	128	737	0	
Mitsubishi	Galant	95-96	I16 B	1738	331	2069	537	112	649	1	Medium
Mitsubishi	Galant Others		I16 Z	9	11	20	447	98	545	0	
Mitsubishi	Canter		I21 Z	1513	153	1666	163	46	209	0	
Mitsubishi	Starwagon / L300	83-86	I23 A	3200	724	3924	607	204	811	1	People Mover
Mitsubishi	Starwagon / Delica Starwagon	87-93	I23 B	6552	1166	7718	1001	290	1291	1	People Mover
Mitsubishi	Starwagon / Delica Spacegear	95-98	I23 C	1966	317	2283	283	60	343	1	People Mover
Mitsubishi	Starwagon / Delica Spacegear	98-03	I23 D	1669	285	1954	209	63	272	1	People Mover
Mitsubishi	Starwagon Others		I23 Z	156	67	223	195	48	243	0	
Mitsubishi	Commercials		I24 Z	5489	973	6462	703	213	916	0	
Mitsubishi	Pajero	82-90	I25 A	2212	421	2633	428	137	565	1	SUV - Medium
Mitsubishi	Pajero	91	I25 B	577	65	642	94	31	125	0	
Mitsubishi	Pajero	92-99	I25 C	4486	642	5128	519	143	662	1	SUV - Medium
Mitsubishi	Pajero NM / NP / NS	00-06	I25 D	1724	226	1950	166	35	201	1	SUV - Medium
Mitsubishi	Pajero NM / NP / NS	07-10	I25 E	174	18	192	20	3	23	1	SUV - Medium
Mitsubishi	Pajero Others		I25 Z	117	43	160	30	11	41	0	

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Mitsubishi	3000GT	92-97	I26 Z	3	2	5	3	1	4	0	
Mitsubishi	Challenger	98-06	I30 Z	669	112	781	86	28	114	1	SUV - Medium
Mitsubishi	Pajero iO	99-03	I34 Z	109	23	132	13	4	17	0	
Mitsubishi	Lancer CE / CG / Cedia	02-03	I37 Z	73	41	114	36	8	44	1	Small
Mitsubishi	Magna TL/TW / Verada KL/KW	03-05	I38 Z	1987	382	2369	294	49	343	1	Large
Mitsubishi	Outlander	03-06	I39 Z	515	113	628	67	15	82	1	SUV - Compact
Mitsubishi	Lancer CH	03-07	I40 Z	3046	726	3772	491	92	583	1	Small
Mitsubishi	Grandis	04-10	I42 Z	66	6	72	10	3	13	0	
Mitsubishi	Colt	04-10	I43 Z	354	85	439	114	24	138	1	Light
Mitsubishi	380	05-08	I44 Z	837	150	987	123	15	138	1	Large
Mitsubishi	Triton MK	96-06	I45 Z	1924	252	2176	166	41	207	1	Commercial - Ute
Mitsubishi	Triton ML / MN	06-10	I46 Z	590	99	689	88	24	112	1	Commercial - Ute
Mitsubishi	Lancer CJ	08-10	I49 Z	224	46	270	36	9	45	1	Small
Mitsubishi	ASX	10-10	I50 Z	1	0	1	.	.	.	0	
Mitsubishi	Others		I99 Z	36525	8240	44765	9088	2975	12063	0	
Mitsubishi / Peugeot	Outlander / 4007	06-10	I47 Z	319	55	374	43	5	48	1	SUV - Compact
Nissan	Pulsar / Vector / Sentra	87	N01 B	1555	346	1901	677	129	806	0	
Nissan	Pulsar /Vector	91	N01 D	3830	897	4727	683	184	867	0	
Nissan	Pulsar / Vector / Sentra	92-95	N01 E	7931	1675	9606	1920	395	2315	1	Small
Nissan	Pulsar / Vector / Sentra	96-99	N01 F	10385	2896	13281	2361	556	2917	1	Small
Nissan	Pulsar Others		N01 Z	424	202	626	143	52	195	0	
Nissan	Pintara	86-88	N02 A	5938	1142	7080	956	275	1231	1	Medium
Nissan	Pintara Others		N02 Z	1	0	1	96	24	120	0	
Nissan	Bluebird	82-86	N03 Z	12220	2542	14762	2595	778	3373	1	Medium
Nissan	Skyline	83-88	N04 Z	5670	1043	6713	1499	415	1914	1	Large
Nissan	180B/200B		N05 Z	56	7	63	6	1	7	0	
Nissan	300ZX / Fairlady Z	90-95	N09 Z	620	113	733	135	34	169	1	Large

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Nissan	Stanza	82-83	N10 Z	512	105	617	92	21	113	1	Small
Nissan	280C / Laurel	82-84	N11 Z	59	9	68	9	3	12	0	
Nissan	Gazelle / Silvia	84-86	N12 Z	430	85	515	453	150	603	1	Small
Nissan	280ZX	82-84	N13 Z	114	19	133	20	8	28	1	Medium
Nissan	Prairie	84-86	N14 Z	381	85	466	167	31	198	1	People Mover
Nissan	Maxima	90-94	N15 A	964	171	1135	348	79	427	1	Large
Nissan	Maxima / Cefiro	95-99	N15 B	1249	261	1510	404	87	491	1	Large
Nissan	Maxima	00-02	N15 C	479	114	593	134	35	169	1	Large
Nissan	Maxima	03-06	N15 D	3	0	3	3	0	3	0	
Nissan	Maxima Others		N15 Z	45	16	61	286	79	365	0	
Nissan	Exa	83-86	N16 A	482	128	610	124	36	160	1	Small
Nissan	Exa	87-91	N16 B	252	49	301	66	17	83	1	Small
Nissan	Exa Others		N16 Z	9	2	11	8	2	10	0	
Nissan	NX/NX-R	91-96	N17 Z	985	218	1203	183	62	245	1	Small
Nissan	300C / Laurel	85-87	N20 Z	95	20	115	12	5	17	0	
Nissan	720 Ute	82-85	N21 Z	1681	328	2009	249	84	333	1	Commercial - Ute
Nissan	B120		N22 Z	132	31	163	22	9	31	0	
Nissan	H40		N23 Z	16	3	19	2	1	3	0	
Nissan	Navara	86-91	N24 A	4182	694	4876	617	214	831	1	Commercial - Ute
Nissan	Navara	92-96	N24 B	2086	356	2442	315	107	422	1	Commercial - Ute
Nissan	Navara	97-05	N24 C	3015	449	3464	364	142	506	1	Commercial - Ute
Nissan	Navara Others		N24 Z	301	80	381	104	23	127	0	
Nissan	Vans (Nomad / Urvan / C22 / E24 / Vanette)		N25 Z	3704	866	4570	665	212	877	0	
Nissan	Patrol / Safari	82-87	N26 A	1562	224	1786	195	68	263	1	SUV - Large
Nissan	Patrol / Safari	98-10	N26 C	4922	717	5639	566	193	759	1	SUV - Large
Nissan	Patrol		N26 Z	212	39	251	33	17	50	0	
Nissan	Pathfinder / Terrano	88-94	N27 Z	699	91	790	254	66	320	1	SUV - Medium

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Nissan	Sunny /120Y		N28 Z	24	7	31	14	2	16	0	
Nissan	Serena	92-95	N30 Z	150	25	175	140	20	160	1	People Mover
Nissan	Infiniti	93-97	N31 Z	3	0	3	.	.	.	0	
Nissan	Bluebird	93-97	N32 Z	1881	325	2206	826	164	990	1	Medium
Nissan	200SX / Silvia	94-02	N33 Z	1540	255	1795	173	62	235	1	Medium
Nissan	Micra	95-97	N34 Z	923	294	1217	205	63	268	1	Light
Nissan	Pathfinder / Terrano / Regulus	95-05	N36 Z	1257	213	1470	208	43	251	1	SUV - Medium
Nissan	Terrano II	97-00	N38 Z	37	10	47	7	0	7	0	
Nissan	Pulsar	00-05	N39 Z	7175	2193	9368	1445	375	1820	1	Small
Nissan	X-Trail	01-07	N40 Z	2507	662	3169	462	115	577	1	SUV - Compact
Nissan	350Z	03-09	N41 Z	184	49	233	35	15	50	1	Medium
Nissan	Maxima	06-09	N42 Z	395	84	479	91	19	110	1	Large
Nissan	Murano	05-08	N43 Z	163	27	190	23	2	25	1	SUV - Medium
Nissan	Pathfinder	05-10	N44 Z	256	44	300	41	5	46	1	SUV - Medium
Nissan	Navara	05-10	N45 Z	782	131	913	121	37	158	1	Commercial - Ute
Nissan	Tiida	06-10	N46 Z	317	107	424	96	22	118	1	Small
Nissan	Dualis	07-10	N47 Z	38	10	48	8	5	13	0	
Nissan	X-Trail	07-10	N49 Z	27	2	29	.	.	.	0	
Nissan	Maxima	09-10	N50 Z	3	0	3	1	0	1	0	
Nissan	370Z	09-10	N51 Z	8	0	8	1	0	1	0	
Nissan	GT-R	09-10	N52 Z	1	0	1	.	.	.	0	
Nissan	Others		N99 Z	23388	3737	27125	6022	1885	7907	0	
Nissan / Ford	Pintara / Corsair / Bluebird	89-92	N02 B	9706	2106	11812	2202	598	2800	1	Medium
Nissan / Ford	Patrol / Maverick / Safari	88-97	N26 B	8885	1134	10019	980	316	1296	1	SUV - Large
Peugeot	205	87-94	PE1 Z	307	50	357	67	18	85	1	Light
Peugeot	607	01-09	PE10Z	16	0	16	1	0	1	0	
Peugeot	407	04-10	PE11Z	76	9	85	15	3	18	0	
Peugeot	207	07-10	PE12Z	77	10	87	15	2	17	0	

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Peugeot	308	08-10	PE13Z	47	14	61	14	1	15	0	
Peugeot	Partner	08-10	PE15Z	1	0	1	.	.	.	0	
Peugeot	405	89-97	PE2 Z	610	99	709	146	40	186	1	Medium
Peugeot	505	82-93	PE3 Z	711	87	798	98	29	127	1	Medium
Peugeot	306	94-01	PE4 Z	1309	254	1563	291	48	339	1	Small
Peugeot	605	94-96	PE5 Z	35	4	39	7	2	9	0	
Peugeot	406	96-04	PE7 Z	290	31	321	50	12	62	1	Medium
Peugeot	206	99-07	PE8 Z	814	188	1002	132	31	163	1	Light
Peugeot	307	01-09	PE9 Z	673	127	800	126	14	140	1	Small
Peugeot	Others		PE99Z	419	52	471	127	33	160	0	
Porsche	944	82-91	PO1 Z	103	11	114	15	6	21	1	Medium
Porsche	911 964 Series	90-93	PO2 B	5	0	5	.	.	.	0	
Porsche	911 993 Series	94-98	PO2 C	4	0	4	.	.	.	0	
Porsche	911 996 Series	99-05	PO2 D	22	2	24	5	1	6	0	
Porsche	911 997 Series	06-10	PO2 E	1	0	1	1	1	2	0	
Porsche	968	92-95	PO4 Z	1	0	1	.	.	.	0	
Porsche	Boxter / Cayman 986 Series	97-04	PO5 A	15	1	16	4	0	4	0	
Porsche	Boxter / Cayman 987 Series	05-10	PO5 B	4	0	4	.	.	.	0	
Porsche	Cayenne	03-10	PO6 Z	39	4	43	5	0	5	0	
Porsche	Others		PO99Z	865	95	960	84	36	120	0	
Proton	Wira	95-96	PRO1Z	1283	419	1702	263	77	340	1	Small
Proton	Satria	97-05	PRO2Z	190	54	244	25	5	30	1	Light
Proton	Waja	01-05	PRO3Z	20	12	32	8	2	10	0	
Proton	Jumbuck	03-10	PRO4Z	136	35	171	19	7	26	1	Commercial - Ute
Proton	Gen 2	04-10	PRO5Z	91	41	132	28	11	39	1	Small
Proton	Satria	07-10	PRO6Z	11	2	13	2	1	3	0	
Proton	Savvy	06-10	PRO7Z	49	14	63	10	3	13	0	
Proton	Persona	08-10	PRO8Z	9	0	9	.	.	.	0	

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Proton	S16	09-10	PRO9Z	1	1	2	1	0	1	0	
Renault	20	82-83	RE1 Z	19	4	23	7	4	11	0	
Renault	Megane Cabriolet	01-03	RE10Z	57	11	68	15	1	16	0	
Renault	Clio	01-08	RE11Z	223	54	277	52	9	61	1	Light
Renault	Megane II	03-10	RE12Z	126	30	156	22	3	25	1	Small
Renault	Trafic	04-10	RE13Z	24	3	27	1	0	1	0	
Renault	Master	04-10	RE14Z	20	0	20	1	0	1	0	
Renault	Kangoo	04-10	RE15Z	49	15	64	15	0	15	0	
Renault	Megane II Cabriolet	04-10	RE16Z	25	9	34	6	2	8	0	
Renault	Scenic II	05-09	RE17Z	11	0	11	1	0	1	0	
Renault	Grand Scenic	07-10	RE18Z	8	0	8	1	1	2	0	
Renault	Laguna III	08-10	RE19Z	1	0	1	1	0	1	0	
Renault	Feugo	82-87	RE2 Z	335	48	383	64	15	79	1	Medium
Renault	Koleos	08-10	RE20Z	10	1	11	2	1	3	0	
Renault	Clio	08-10	RE22Z	1	0	1	.	.	.	0	
Renault	21	87-91	RE3 Z	24	5	29	7	2	9	0	
Renault	25	85-91	RE4 Z	48	9	57	17	4	21	0	
Renault	19	91-96	RE5 Z	294	58	352	55	8	63	1	Small
Renault	Laguna	95-96	RE7 Z	40	10	50	11	4	15	0	
Renault	Laguna II	02-08	RE8 Z	42	8	50	11	1	12	0	
Renault	Scenic	01-04	RE9 Z	223	53	276	45	6	51	1	Small
Renault	Others		RE99Z	388	52	440	69	11	80	0	
Rolls Royce			ROLLZ	39	6	45	4	3	7	0	
Rover	3500	82-87	RO Z	179	30	209	37	4	41	1	Large
Rover	416i/827		RO1 Z	380	76	456	57	13	70	0	
Rover	Quintet	82-86	RO2 Z	245	64	309	71	19	90	1	Small
Rover	825	87-88	RO3 Z	35	5	40	18	3	21	0	
Rover	75	01-05	RO7 Z	96	17	113	18	5	23	1	Medium

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Rover	Others		RO99Z	673	94	767	197	57	254	0	
Saab	Others		SA00Z	1227	146	1373	193	53	246	0	
Saab	900 Series	82-92	SA1 A	1094	185	1279	178	47	225	1	Medium
Saab	900/9-3	94-02	SA1 B	1433	239	1672	193	32	225	1	Medium
Saab	900 Others		SA1 Z	2	3	5	1	0	1	0	
Saab	9000	86-97	SA2 Z	1077	178	1255	166	24	190	1	Medium
Saab	9-5	98-05	SA3 Z	264	54	318	49	6	55	1	Large
Saab	9-3	03-10	SA4 Z	209	45	254	42	9	51	1	Medium
Saab	9-5	06-10	SA5 Z	40	10	50	8	1	9	0	
Saab	900/9000		SA99Z	123	19	142	17	4	21	0	
Seat	Ibiza	95-99	SE01Z	5	2	7	4	1	5	0	
Seat	Cordoba	95-99	SE02Z	4	3	7	3	1	4	0	
Seat	Others		SEATZ	446	84	530	41	13	54	0	
Skoda	Roomster	07-10	VS30Z	1	0	1	.	.	.	0	
Skoda	Octavia / Scout	07-10	VS31Z	8	1	9	1	0	1	0	
Smart	City-Coupe / ForTwo	03-10	SM01Z	23	8	31	12	2	14	0	
Smart	Roadster	03-06	SM02Z	8	0	8	.	.	.	0	
Smart	ForFour	04-06	SM03Z	1	1	2	3	0	3	0	
Ssangyong	Rexton	03-10	DA14Z	47	17	64	13	1	14	0	
Ssangyong	Korando	04-06	DA15Z	10	3	13	3	0	3	0	
Ssangyong	Chairman	05-08	DA16Z	1	0	1	1	0	1	0	
Ssangyong	Stavic	05-10	DA17Z	20	7	27	5	2	7	0	
Ssangyong	Kyron	06-10	DA18Z	12	2	14	2	2	4	0	
Ssangyong	Actyon	07-10	DA19Z	20	1	21	2	0	2	0	
Subaru	1800 / Leone / Omega / 4WD Wagon	82-93	SU1 Z	6586	1634	8220	1376	434	1810	1	Medium
Subaru	Tribeca	06-10	SU10Z	73	18	91	11	2	13	0	
Subaru	Forester	08-10	SU11Z	222	54	276	31	7	38	1	SUV - Compact
Subaru	Liberty / Legacy	89-93	SU2 A	5784	1141	6925	1528	363	1891	1	Medium

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Subaru	Liberty / Legacy / Outback	94-98	SU2 B	2881	573	3454	955	201	1156	1	Medium
Subaru	Liberty / Legacy / Outback	99-03	SU2 C	3503	658	4161	546	111	657	1	Medium
Subaru	Liberty / Legacy / Outback	03-09	SU2 D	1812	301	2113	239	57	296	1	Medium
Subaru	Liberty / Legacy / Outback / Exiga	09-10	SU2 E	9	0	9	.	.	.	0	
Subaru	Liberty Others		SU2 Z	111	36	147	358	95	453	0	
Subaru	Vortex	85-89	SU3 Z	70	17	87	47	7	54	0	
Subaru	Sherpa / Fiori / 700 / Rex	89-92	SU4 Z	668	330	998	309	85	394	1	Light
Subaru	SVX / Alcyone	92-95	SU5 Z	25	4	29	2	3	5	0	
Subaru	Brumby	82-92	SU6 Z	1659	499	2158	293	162	455	1	Commercial - Ute
Subaru	Impreza	93-00	SU7 A	5080	1175	6255	1225	325	1550	1	Small
Subaru	Impreza	01-07	SU7 B	3086	643	3729	444	109	553	1	Small
Subaru	Impreza	07-10	SU7 C	235	50	285	43	8	51	1	Small
Subaru	Forester	97-02	SU8 Z	2130	477	2607	403	93	496	1	SUV - Compact
Subaru	Forester	02-08	SU9 Z	2137	453	2590	306	71	377	1	SUV - Compact
Subaru	Others		SU99Z	3488	737	4225	985	325	1310	0	
Suzuki	Swift	82-85	SZ01A	202	68	270	56	20	76	1	Light
Suzuki	Swift Others		SZ01Z	158	59	217	104	33	137	0	
Suzuki	Vitara / Escudo	88-98	SZ02A	4021	984	5005	820	225	1045	1	SUV - Compact
Suzuki	Grand Vitara	99-05	SZ02B	934	252	1186	189	45	234	1	SUV - Compact
Suzuki	Vitara Others		SZ02Z	59	25	84	59	20	79	0	
Suzuki	Hatch / Alto	82-84	SZ03Z	804	380	1184	271	90	361	1	Light
Suzuki	Alto	85-00	SZ05Z	236	102	338	200	55	255	1	Light
Suzuki	Mighty Boy	85-88	SZ06Z	437	198	635	141	44	185	1	Commercial - Ute
Suzuki	Baleno / Cultus Crescent	95-02	SZ08Z	1976	491	2467	350	74	424	1	Small
Suzuki	Carry	99-05	SZ09Z	109	24	133	25	6	31	1	Commercial - Van
Suzuki	Ignis	00-02	SZ10Z	499	199	698	167	43	210	1	Light
Suzuki	Jimny	98-10	SZ11Z	357	148	505	114	32	146	1	SUV - Compact
Suzuki	Liana	01-07	SZ12Z	421	137	558	112	26	138	1	Small

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Suzuki	Grand Vitara	05-08	SZ13Z	280	90	370	61	15	76	1	SUV - Compact
Suzuki	Swift	05-10	SZ14Z	1486	599	2085	480	119	599	1	Light
Suzuki	APV	05-10	SZ15Z	42	16	58	16	0	16	0	
Suzuki	SX4	07-10	SZ16Z	134	30	164	30	4	34	1	SUV - Compact
Suzuki	Grand Vitara JT	08-10	SZ17Z	60	13	73	9	1	10	0	
Suzuki	Alto	09-10	SZ18Z	10	4	14	4	0	4	0	
Suzuki	Kizarshi	10-10	SZ19Z	2	1	3	1	0	1	0	
Suzuki	Others		SZ99Z	2550	735	3285	845	304	1149	0	
Toyota	Corolla	82-84	T01 A	9671	2425	12096	2835	671	3506	1	Small
Toyota	Corolla	85	T01 B	2964	729	3693	1122	267	1389	0	
Toyota	Corolla	86-88	T01 C	17232	4358	21590	3847	991	4838	1	Small
Toyota	Corolla	89	T01 D	2087	436	2523	395	113	508	0	
Toyota	Corolla / Allex	98-01	T01 G	7133	1887	9020	1477	275	1752	1	Small
Toyota	Corolla	02-07	T01 H	11499	3185	14684	2186	522	2708	1	Small
Toyota	Corolla	07-10	T01 I	1618	475	2093	353	86	439	1	Small
Toyota	Corolla Others		T01 Z	2	0	2	21	8	29	0	
Toyota	Corona	82-88	T03 Z	17792	3782	21574	3445	904	4349	1	Medium
Toyota	Camry	83-86	T04 Z	3859	747	4606	618	166	784	1	Medium
Toyota	Camry	98-02	T05 C	18268	3872	22140	2582	589	3171	1	Large
Toyota	Celica	81-85	T06 A	2547	486	3033	556	123	679	1	Medium
Toyota	Celica	86-89	T06 B	2528	432	2960	407	100	507	1	Medium
Toyota	Celica	90-93	T06 C	2746	514	3260	519	129	648	1	Medium
Toyota	Celica	94-99	T06 D	1738	388	2126	353	63	416	1	Medium
Toyota	Celica	00-05	T06 E	564	116	680	71	19	90	1	Medium
Toyota	Celica Others		T06 Z	62	26	88	81	24	105	0	
Toyota	Crown / Cressida / Mark II	82-85	T07 A	2112	406	2518	419	123	542	1	Large
Toyota	Crown / Cressida / Mark II	86-88	T07 B	1057	152	1209	103	44	147	1	Large
Toyota	Cressida / Mark II	89-93	T07 C	2556	406	2962	295	84	379	1	Large

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Toyota	Crown / Cres Others		T07 Z	42	7	49	46	7	53	0	
Toyota	Tercel	83-88	T09 Z	509	117	626	160	35	195	1	Small
Toyota	Lexcen Others		T10 Z	1	0	1	2	0	2	0	
Toyota	Supra	82-90	T11 Z	592	108	700	102	38	140	1	Large
Toyota	MR2	87-90	T12 A	276	66	342	117	40	157	1	Small
Toyota	MR2	91-00	T12 B	213	41	254	104	23	127	1	Small
Toyota	MR2 Others		T12 Z	27	10	37	40	6	46	0	
Toyota	Paseo / Cynos	91-99	T13 Z	1704	398	2102	345	77	422	1	Small
Toyota	Bundera		T14 Z	10	4	14	4	1	5	0	
Toyota	Hiace/Liteace	82-86	T15 A	4574	859	5433	918	274	1192	1	Commercial - Van
Toyota	Hiace/Liteace	87-89	T15 B	2423	427	2850	647	167	814	1	Commercial - Van
Toyota	Hiace/Liteace	90-95	T15 C	5959	883	6842	861	264	1125	1	Commercial - Van
Toyota	Hiace/Liteace	96-04	T15 D	6303	906	7209	840	210	1050	1	Commercial - Van
Toyota	Hiace	05-10	T15 E	846	139	985	109	33	142	1	Commercial - Van
Toyota	Hiace / Liteace Others		T15 Z	603	106	709	265	58	323	0	
Toyota	4Runner/Hilux	82-85	T16 A	5631	1184	6815	816	340	1156	1	Commercial - Ute
Toyota	4Runner/Hilux	86-88	T16 B	4441	864	5305	859	323	1182	1	Commercial - Ute
Toyota	4Runner/Hilux	89-97	T16 C	20300	3909	24209	3147	1236	4383	1	Commercial - Ute
Toyota	Hilux	98-02	T16 D	7332	1391	8723	960	318	1278	1	Commercial - Ute
Toyota	Hilux	03-04	T16 E	2225	432	2657	308	105	413	1	Commercial - Ute
Toyota	Hilux	05-10	T16 F	4296	782	5078	530	159	689	1	Commercial - Ute
Toyota	4Runner / Hilux Others		T16 Z	949	311	1260	416	151	567	0	
Toyota	Tarago	83-89	T18 A	4936	1266	6202	821	264	1085	1	People Mover
Toyota	Tarago	90	T18 B	191	29	220	222	31	253	0	
Toyota	Tarago / Previa / Estima	91-99	T18 C	3654	626	4280	441	104	545	1	People Mover
Toyota	Tarago / Previa / Estima	00-06	T18 D	1106	192	1298	139	30	169	1	People Mover
Toyota	Tarago Others		T18 Z	119	32	151	23	9	32	0	
Toyota	Commercials		T19 Z	5745	976	6721	614	166	780	0	

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Toyota	Landcruiser	82-89	T20 A	8430	1446	9876	1023	472	1495	1	SUV - Large
Toyota	Landcruiser	90-97	T20 B	13418	1999	15417	1507	608	2115	1	SUV - Large
Toyota	Landcruiser	98-07	T20 C	7205	1333	8538	960	367	1327	1	SUV - Large
Toyota	Landcruiser Others		T20 Z	632	198	830	175	84	259	0	
Toyota	RAV4	94-00	T21 A	3388	797	4185	703	159	862	1	SUV - Compact
Toyota	RAV4	01-06	T21 B	3166	748	3914	505	119	624	1	SUV - Compact
Toyota	Starlet	96-99	T22 Z	4657	1420	6077	1042	277	1319	1	Light
Toyota	Echo	99-05	T27 Z	6116	1973	8089	1395	381	1776	1	Light
Toyota	Avalon	00-05	T29 Z	3014	643	3657	467	122	589	1	Large
Toyota	MR2	00-05	T30 Z	113	33	146	13	3	16	0	
Toyota	Corolla 4WD Wagon	92-96	T32 Z	565	119	684	64	17	81	1	Small
Toyota	Spacia	93-00	T33 A	202	49	251	30	8	38	1	People Mover
Toyota	Spacia	01-02	T33 B	21	5	26	4	0	4	0	
Toyota	Camry	02-06	T36 Z	7122	1719	8841	1228	262	1490	1	Large
Toyota	Prius	01-02	T37 Z	34	3	37	2	0	2	0	
Toyota	Avensis Verso	01-10	T38 Z	186	40	226	21	9	30	1	People Mover
Toyota	Prius II	03-09	T39 Z	288	57	345	64	9	73	1	Small
Toyota	Kluger / Highlander	03-07	T40 Z	905	193	1098	115	30	145	1	SUV - Medium
Toyota	Landcruiser Prado	96-03	T41 Z	1564	292	1856	171	74	245	1	SUV - Medium
Toyota	Landcruiser Prado	03-09	T42 Z	2531	419	2950	276	74	350	1	SUV - Medium
Toyota	Yaris	05-10	T45 Z	2672	826	3498	587	128	715	1	Light
Toyota	Aurion	06-10	T50 Z	1062	210	1272	144	28	172	1	Large
Toyota	Camry	06-10	T51 Z	1749	389	2138	289	65	354	1	Large
Toyota	RAV4	06-10	T52 Z	1091	239	1330	160	45	205	1	SUV - Compact
Toyota	Tarago	06-10	T54 Z	257	56	313	32	5	37	1	People Mover
Toyota	Kluger / Highlander	07-10	T57 Z	377	72	449	53	7	60	1	SUV - Medium
Toyota	Landcruiser 200 Series	07-10	T58 Z	156	18	174	12	3	15	0	

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Toyota	Landcruiser Prado	09-10	T61 Z	32	3	35	3	0	3	0	
Toyota	Prius III	09-10	T62 Z	1	0	1	.	.	.	0	
Toyota	Rukus	10-10	T64 Z	1	1	2	1	0	1	0	
Toyota	Others		T99 Z	29930	5011	34941	9028	3046	12074	0	
Toyota / Holden	Corolla / Nova	89-93	T01 E	30253	7471	37724	6212	1594	7806	1	Small
Toyota / Holden	Corolla / Nova	94-97	T01 F	20201	4988	25189	3891	920	4811	1	Small
Volkswagen			VOLKZ	9	2	11	19	5	24	0	
Volkswagen	Caravelle / Transporter	88-94	VS01A	363	50	413	28	7	35	1	Commercial - Van
Volkswagen	Caravelle / Transporter	95-04	VS01B	1067	177	1244	106	15	121	1	Commercial - Van
Volkswagen	Golf	82-94	VS02A	243	47	290	77	17	94	1	Small
Volkswagen	Golf	95-98	VS02B	1238	224	1462	162	29	191	1	Small
Volkswagen	Golf / Bora	99-04	VS02C	2088	465	2553	414	49	463	1	Small
Volkswagen	Golf Others		VS02Z	7	2	9	6	1	7	0	
Volkswagen	Kombi		VS03Z	9	4	13	3	1	4	0	
Volkswagen	Passat	95-97	VS04A	50	8	58	9	1	10	0	
Volkswagen	Passat	98-06	VS04B	442	66	508	91	15	106	1	Medium
Volkswagen	Passat Others		VS04Z	8	1	9	3	0	3	0	
Volkswagen	70E Pick Up		VS07Z	24	1	25	5	1	6	0	
Volkswagen	Polo	96-00	VS08A	542	157	699	155	20	175	1	Light
Volkswagen	Polo	01-02	VS08B	68	22	90	20	7	27	0	
Volkswagen	Polo Others		VS08Z	6	1	7	2	1	3	0	
Volkswagen	New Beetle	00-10	VS10Z	325	82	407	88	13	101	1	Small
Volkswagen	Polo	02-10	VS11Z	315	93	408	75	15	90	1	Light
Volkswagen	LT	03-06	VS12Z	33	5	38	9	2	11	0	
Volkswagen	Touareg	03-10	VS13Z	113	17	130	10	3	13	0	
Volkswagen	Transporter	04-10	VS14Z	97	16	113	9	2	11	0	

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Volkswagen	Golf / Jetta	04-10	VS15Z	1099	229	1328	201	28	229	1	Small
Volkswagen	Caddy	05-10	VS16Z	171	44	215	32	6	38	1	Commercial - Van
Volkswagen	Multivan	04-10	VS17Z	27	5	32	7	1	8	0	
Volkswagen	Passat	06-10	VS18Z	103	15	118	27	5	32	1	Medium
Volkswagen	Crafter	07-10	VS19Z	13	0	13	1	0	1	0	
Volkswagen	EOS	07-10	VS20Z	35	11	46	7	3	10	0	
Volkswagen	Tiguan	08-10	VS33Z	11	1	12	6	1	7	0	
Volkswagen	Polo	10-10	VS34Z	1	0	1	2	0	2	0	
Volkswagen	Others		VS99Z	384	60	444	84	28	112	0	
Volvo	850/S70/V70/C70	92-99	V877Z	1966	350	2316	274	59	333	1	Large
Volvo	200 Series	82-93	VO02Z	3349	487	3836	355	97	452	1	Medium
Volvo	300 Series	84-88	VO03Z	193	28	221	35	13	48	1	Small
Volvo	700/900 Series	84-92	VO07Z	2271	367	2638	309	53	362	1	Large
Volvo	960/S90/V90	90-98	VO10Z	136	27	163	22	5	27	1	Large
Volvo	S80	98-06	VO11Z	90	11	101	15	1	16	0	
Volvo	S60	01-09	VO12Z	176	22	198	20	4	24	1	Medium
Volvo	XC 90	03-10	VO13Z	156	19	175	16	4	20	1	SUV - Medium
Volvo	S40/V50	04-10	VO14Z	85	23	108	20	1	21	1	Small
Volvo	S80 A-Series	07-10	VO15Z	4	2	6	1	1	2	0	
Volvo	V70 / XC70	00-07	VO16Z	88	14	102	15	2	17	0	
Volvo	C30	07-10	VO17Z	6	1	7	2	0	2	0	
Volvo	V70 / XC70 BW Series	08-10	VO18Z	6	0	6	.	.	.	0	
Volvo	C70	99-05	VO19Z	2	0	2	.	.	.	0	
Volvo	C70 M series	06-10	VO20Z	8	1	9	1	0	1	0	
Volvo	XC60	09-10	VO21Z	5	0	5	1	1	2	0	
Volvo	S40/V40	97-04	VO40Z	821	155	976	128	19	147	1	Small

MAKE/MODEL			MODEL CODE	No. of uninjured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of involved drivers in NSW (87-2010) and QLD (91-2009) and WA (91-2010) and SA (95-2010)	No. of injured (but not severely) drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of severely injured drivers in NSW and Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	No. of injured drivers in NSW, Victoria (87-2010) and QLD (91-2009) and WA, NZ (91-2010) and SA (95-2010)	ANALYSIS INCLUSION CRITERIA INV=100 INJ=20	MARKET GROUP
Volvo	Others		VO99Z	3374	437	3811	537	148	685	0	
Unknown				302266	97426	399692	75162	29279	104441	0	
			Total	**2421851**	**539290**	**2961141**	**491556**	**141944**	**633500**	**506**	

APPENDIX 2

LOGISTIC REGRESSION ESTIMATES OF CRASHWORTHINESS INJURY RISK BY MODEL AND MARKET GROUP

CRASHWORTHINESS INJURY RISK RATINGS

New South Wales Data (1987-2010), South Australia (1995-2010), Queensland Data (1991-2009), Western Australia Data (1991-2010)

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
ALL VEHICLE AVERAGE			**17.57**			
Compact Sports Utility Vehicles			**17.92**	**17.60**	**18.25**	**0.65**
Daihatsu	Feroza / Rocky	89-97	21.37	19.08	23.84	4.75
Daihatsu	Rocky / Rugger	85-98	23.53	20.31	27.09	6.78
Daihatsu	Terios	97-05	24.68	22.27	27.27	5.00
Holden	Cruze	02-06	20.74	18.32	23.39	5.06
Hyundai	Tucson	04-10	13.34	10.03	17.53	7.50
Mitsubishi	Outlander	03-06	15.72	13.16	18.66	5.50
Mitsubishi / Peugeot	Outlander / 4007	06-10	12.27	9.47	15.74	6.27
Kia	Sportage	98-03	18.13	15.90	20.59	4.69
Kia	Sorento	03-09	12.20	9.34	15.78	6.44
Kia	Sportage KM	05-10	17.85	12.69	24.52	11.83
Ford / Mazda	Escape / Tribute	01-06	14.22	12.89	15.66	2.77
Mazda	CX-7	06-10	12.64	9.63	16.42	6.79
Nissan	X-Trail	01-07	15.86	14.70	17.09	2.39
Lada	Niva	84-99	20.07	16.19	24.62	8.43
Honda	CR-V	97-01	14.32	13.21	15.50	2.28
Honda	CR-V	02-06	15.26	14.02	16.59	2.57
Honda	HR-V	99-02	16.38	13.68	19.48	5.79
Honda	CR-V	07-10	11.51	9.26	14.22	4.97
Land Rover	Freelander	98-06	14.39	11.07	18.50	7.43
Subaru	Forester	08-10	15.56	11.97	19.98	8.01
Subaru	Forester	97-02	15.24	13.95	16.62	2.67
Subaru	Forester	02-08	13.33	12.16	14.59	2.42
Suzuki	Vitara / Escudo	88-98	21.96	20.73	23.25	2.51
Suzuki	Grand Vitara	99-05	16.63	14.71	18.74	4.02
Holden / Suzuki	Drover / Sierra / Samurai / SJ410 / SJ413	82-99	27.92	26.60	29.27	2.67
Suzuki	Jimny	98-10	22.60	19.23	26.36	7.13
Suzuki	Grand Vitara	05-08	15.46	12.50	18.97	6.48
Suzuki	SX4	07-10	12.74	8.84	18.01	9.17
Toyota	RAV4	94-00	17.44	16.31	18.63	2.32
Toyota	RAV4	01-06	15.02	13.99	16.11	2.12
Toyota	RAV4	06-10	12.84	11.31	14.54	3.23
Medium Sports Utility Vehicles			**14.07**	**13.71**	**14.43**	**0.72**
Daewoo / Ssangong	Musso	98-02	12.90	9.56	17.19	7.63
Ford	Territory SX/SY	04-10	11.83	10.52	13.28	2.77
Holden / Isuzu	Jackaroo / Bighorn	82-91	21.80	19.30	24.53	5.23
Holden / Isuzu	Jackaroo / Bighorn	92-97	15.69	13.52	18.14	4.63
Holden / Isuzu	Jackaroo / Bighorn	98-02	15.88	13.93	18.05	4.12

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Holden	Frontera / Mu	95-03	16.62	13.83	19.83	6.00
Holden	Adventra	03-06	13.90	10.63	17.98	7.35
Holden	Captiva CG	06-10	14.68	12.25	17.48	5.23
Hyundai	Santa Fe	00-06	15.14	12.58	18.12	5.54
Hyundai	Terracan	01-07	13.51	10.32	17.50	7.18
Mitsubishi	Pajero	82-90	19.71	18.05	21.47	3.42
Mitsubishi	Pajero	92-99	14.23	13.22	15.31	2.09
Mitsubishi	Pajero NM / NP / NS	00-06	10.89	9.59	12.33	2.74
Mitsubishi	Pajero NM / NP / NS	07-10	8.41	5.33	13.04	7.72
Mitsubishi	Challenger	98-06	14.01	11.72	16.66	4.94
Jeep	Cherokee XJ	96-00	14.99	13.27	16.90	3.63
Jeep	Wrangler	96-04	16.03	12.84	19.82	6.98
Jeep	Cherokee KJ	01-07	11.95	9.24	15.31	6.07
Jeep	Wrangler	05-10	11.53	7.27	17.80	10.53
Land Rover	Defender	92-10	14.31	11.35	17.89	6.53
Nissan	Pathfinder / Terrano	88-94	13.86	11.38	16.79	5.41
Nissan	Pathfinder / Terrano / Regulus	95-05	13.16	11.53	14.97	3.43
Nissan	Murano	05-08	11.36	7.81	16.25	8.43
Nissan	Pathfinder	05-10	10.50	7.78	14.03	6.24
Toyota	Kluger / Highlander	03-07	13.93	12.12	15.96	3.84
Toyota	Landcruiser Prado	96-03	11.79	10.49	13.21	2.72
Toyota	Landcruiser Prado	03-09	10.23	9.29	11.25	1.97
Lexus	RX330	03-05	9.52	6.86	13.06	6.19
Toyota	Kluger / Highlander	07-10	12.63	10.06	15.75	5.69
Volvo	XC 90	03-10	8.16	5.20	12.57	7.37
Large Sports Utility Vehicles			**13.09**	**12.83**	**13.36**	**0.53**
BMW	X5	01-08	9.34	7.54	11.53	3.99
Ford	Bronco	82-87	17.25	12.19	23.85	11.66
Ford	Explorer	00-01	18.49	15.40	22.04	6.65
Ford	Explorer	01-05	12.25	9.52	15.63	6.11
Jeep	Grand Cherokee ZG	96-99	12.95	9.70	17.07	7.37
Jeep	Grand Cherokee WG	99-05	11.06	8.27	14.64	6.37
Land Rover	Discovery	91-02	13.22	11.64	14.99	3.35
Mercedes Benz	M-Class W163	98-05	9.90	7.84	12.42	4.58
Nissan	Patrol / Safari	82-87	15.92	14.08	17.95	3.87
Nissan / Ford	Patrol / Maverick / Safari	88-97	12.56	11.87	13.29	1.42
Nissan	Patrol / Safari	98-10	10.55	9.80	11.34	1.54
Land Rover	Range Rover	82-94	15.32	13.07	17.87	4.80
Land Rover	Range Rover	95-02	13.86	9.92	19.03	9.10
Toyota	Landcruiser	82-89	16.76	15.95	17.59	1.65
Toyota	Landcruiser	90-97	13.28	12.72	13.87	1.15
Toyota	Landcruiser	98-07	12.59	11.93	13.29	1.36
Commercial - Vans			**18.45**	**18.05**	**18.86**	**0.81**
Daihatsu	Handivan	82-90	36.38	33.16	39.73	6.56
Daihatsu	Hi-Jet	82-90	44.94	37.72	52.38	14.66
Daihatsu	Handivan / Cuore	99-03	29.95	25.03	35.37	10.33
Ford	Falcon Panel Van	82-95	18.32	16.99	19.72	2.73
Ford	Falcon Panel Van	96-99	14.84	11.85	18.42	6.58
Ford	Transit	95-00	15.38	13.36	17.65	4.29

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Ford	Transit	01-07	11.08	9.18	13.32	4.14
Holden	Shuttle / WFR Van	82-87	24.33	20.56	28.54	7.98
Kia	Pregio	02-06	18.51	15.89	21.47	5.58
Mercedes Benz	MB100 / MB140	99-04	12.05	9.03	15.90	6.87
Mercedes Benz	Vito	99-04	10.95	8.57	13.89	5.33
Mercedes Benz	Sprinter	98-06	15.00	12.28	18.19	5.91
Honda	Acty	83-86	17.88	14.03	22.51	8.47
Holden / Suzuki	Scurry / Carry	82-00	36.26	32.07	40.67	8.60
Suzuki	Carry	99-05	18.06	12.21	25.88	13.66
Toyota	Hiace/Liteace	82-86	24.11	22.73	25.53	2.80
Toyota	Hiace/Liteace	87-89	22.57	20.75	24.49	3.73
Toyota	Hiace/Liteace	90-95	19.16	18.05	20.33	2.28
Toyota	Hiace/Liteace	96-04	15.54	14.62	16.51	1.89
Toyota	Hiace	05-10	15.14	12.93	17.66	4.73
Volkswagen	Caravelle / Transporter	88-94	15.34	11.80	19.69	7.89
Volkswagen	Caravelle / Transporter	95-04	16.62	14.47	19.01	4.53
Volkswagen	Caddy	05-10	19.64	14.84	25.52	10.68
Commercial - Utes			**16.09**	**15.89**	**16.29**	**0.40**
Ford / Nissan	Falcon Ute / XFN Ute	82-95	17.33	16.59	18.10	1.51
Ford	Falcon Ute	96-99	16.58	15.24	18.02	2.78
Ford	Falcon Ute AU	00-02	13.66	12.52	14.87	2.35
Ford	Falcon Ute BA/BF	03-08	12.23	11.16	13.39	2.23
Ford	Ford F-Series	82-92	15.17	12.95	17.69	4.74
Ford	F-Series	01-06	8.17	5.86	11.28	5.42
Holden	Commodore Ute VG/VP	90-93	17.50	15.89	19.22	3.33
Holden / Isuzu	Rodeo / Pickup	82-85	21.37	18.48	24.57	6.09
Holden / Isuzu	Rodeo / Pickup	86-88	21.63	17.90	25.88	7.97
Holden / Isuzu	Rodeo / Pickup	89-95	18.63	17.74	19.55	1.81
Holden	Rodeo	96-98	17.05	15.86	18.30	2.44
Holden	Rodeo	99-02	16.25	15.17	17.40	2.24
Holden	WB Series	82-85	17.65	15.90	19.55	3.65
Holden	Commodore Ute VR/VS	94-00	16.54	15.79	17.32	1.54
Holden	Commodore VU Ute	00-02	13.61	12.40	14.91	2.50
Holden	Commodore VY/VZ Ute	02-07	13.57	12.75	14.43	1.68
Holden	Rodeo	03-08	14.60	13.68	15.58	1.90
Holden	Commodore VE Ute	07-10	12.85	10.02	16.33	6.31
Holden	Colorado RC	08-10	14.46	10.53	19.52	8.99
Mitsubishi	Triton MK	96-06	14.00	12.46	15.70	3.24
Mitsubishi	Triton ML / MN	06-10	13.72	11.34	16.50	5.15
Kia	Ceres	92-00	21.15	19.03	23.45	4.41
Kia	K2700	02-08	13.99	9.53	20.06	10.52
Ford / Mazda	Courier / B-Series / Bounty	98-02	14.60	13.28	16.02	2.74
Ford / Mazda	Courier / Bravo / Bounty	03-06	16.41	14.83	18.13	3.30
Ford / Mazda	Ranger / BT-50	06-10	14.47	12.72	16.41	3.69
Nissan	720 Ute	82-85	20.87	18.90	22.99	4.09
Nissan	Navara	86-91	18.16	16.95	19.44	2.49
Nissan	Navara	92-96	16.67	15.11	18.36	3.26
Nissan	Navara	97-05	11.43	10.42	12.51	2.08
Nissan	Navara	05-10	11.41	9.62	13.48	3.86
Proton	Jumbuck	03-10	16.13	11.59	22.02	10.43
Subaru	Brumby	82-92	23.06	21.24	24.99	3.76

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Suzuki	Mighty Boy	85-88	38.76	34.64	43.05	8.41
Toyota	4Runner/Hilux	82-85	20.52	19.46	21.63	2.17
Toyota	4Runner/Hilux	86-88	19.02	17.86	20.23	2.37
Toyota	4Runner/Hilux	89-97	17.49	16.95	18.03	1.08
Toyota	Hilux	98-02	14.97	14.22	15.76	1.54
Toyota	Hilux	03-04	13.99	12.75	15.34	2.59
Toyota	Hilux	05-10	12.46	11.62	13.36	1.74
Large Cars			**16.91**	**16.79**	**17.04**	**0.25**
BMW	7 Series E23	82-86	10.86	6.77	16.99	10.22
BMW	7 Series E32	87-94	16.94	13.14	21.55	8.41
BMW	7 Series E38	95-01	10.50	6.96	15.55	8.59
Ford	Falcon XE/XF	82-88	18.99	18.61	19.38	0.77
Ford	Fairlane Z & LTD F	82-87	18.55	17.54	19.61	2.07
Ford	Falcon EA / Falcon EB Series I	88-Mar 92	18.18	17.78	18.57	0.79
Ford	Falcon EB Series II / Falcon ED	Apr 92-94	16.70	16.18	17.23	1.05
Ford	Fairlane N & LTD D	88-94	15.03	14.05	16.06	2.00
Ford	Fairlane N & LTD D	95-98	15.79	14.30	17.40	3.11
Ford	Fairlane & LTD AU	99-02	15.55	13.69	17.61	3.92
Ford	Fairlane & LTD BA/BF	03-07	12.73	10.64	15.17	4.53
Ford	Falcon FG	08-10	10.80	9.00	12.90	3.90
Ford	Falcon EF/EL	94-98	16.69	16.34	17.05	0.71
Ford	Falcon AU	98-02	16.02	15.58	16.46	0.88
Ford	Taurus	96-98	17.97	15.00	21.38	6.37
Ford	Falcon BA/BF	02-08	14.12	13.65	14.60	0.95
Holden / Toyota	Commodore VN/VP / Lexcen	89-93	18.83	18.48	19.18	0.70
Holden	Statesman/Caprice WB	82-85	17.94	12.26	25.48	13.23
Holden	Stateman/Caprice VQ	90-93	16.52	13.82	19.62	5.80
Holden	Stateman/Caprice VR/VS	94-98	16.30	15.26	17.38	2.12
Holden / Toyota	Commodore VR/VS / Lexcen	93-97	17.53	17.20	17.87	0.67
Holden	Commodore VT/VX	97-02	16.68	16.34	17.03	0.69
Holden	Statesman/Caprice WH	99-03	15.64	13.99	17.44	3.45
Holden	Commodore VY/VZ	02-07	15.44	14.92	15.97	1.05
Holden	Monaro	01-05	15.15	13.04	17.53	4.49
Holden	Statesman/Caprice WK/WL	03-06	14.31	12.08	16.87	4.79
Holden	Commodore VB-VL	82-88	20.32	19.92	20.73	0.81
Holden	Commodore VE	06-10	14.58	13.73	15.48	1.75
Hyundai	Sonata	89-97	19.48	18.29	20.72	2.43
Hyundai	Grandeaur / XG	99-00	15.36	12.17	19.19	7.02
Mitsubishi	Magna TM/TN/TP / Sigma / V3000	85-90	20.18	19.67	20.71	1.04
Mitsubishi	Magna TE/TF/TH/TJ / Verada KE/KF/KH/KJ / Diamante	96-03	16.91	16.40	17.42	1.02
Mitsubishi	Magna TR/TS / Verada KR/KS / V3000 / Diamante	91-96	18.04	17.56	18.54	0.97
Mitsubishi	Magna TL/TW / Verada KL/KW	03-05	16.07	14.62	17.64	3.02
Mitsubishi	380	05-08	14.60	12.53	16.95	4.42
Jaguar	XJ6	82-86	19.40	15.28	24.31	9.03
Jaguar	XJ6	87-94	13.94	11.07	17.41	6.35
Jaguar	S-Type	99-08	9.28	6.24	13.60	7.36
Kia	Optima	01-06	21.49	15.17	29.54	14.37
Mazda	929 / Luce	82-90	20.95	19.52	22.44	2.92
Mazda	929 / Sentia / Efini MS-9	92-96	18.28	14.00	23.52	9.52

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Mercedes Benz	E-Class W123	82-85	15.67	12.64	19.28	6.64
Mercedes Benz	E-Class W124	86-94	16.86	14.90	19.01	4.11
Mercedes Benz	E-Class W210	96-02	13.88	11.74	16.34	4.60
Mercedes Benz	S-Class W126	82-92	15.07	12.90	17.54	4.65
Mercedes Benz	E-Class W211	02-09	12.78	9.81	16.50	6.69
Nissan	Skyline	83-88	19.35	18.30	20.45	2.15
Nissan	300ZX / Fairlady Z	90-95	20.60	17.42	24.20	6.78
Nissan	Maxima	90-94	18.48	16.08	21.15	5.07
Nissan	Maxima / Cefiro	95-99	17.67	15.74	19.78	4.03
Nissan	Maxima	00-02	17.74	14.88	21.02	6.15
Nissan	Maxima	06-09	14.76	11.97	18.06	6.09
Honda	Legend	86-95	14.21	12.00	16.75	4.76
Rover	3500	82-87	21.26	15.31	28.75	13.44
Saab	9-5	98-05	16.71	12.95	21.30	8.35
Toyota	Camry	98-02	16.62	16.11	17.15	1.03
Toyota	Crown / Cressida / Mark II	82-85	20.47	18.73	22.31	3.58
Toyota	Crown / Cressida / Mark II	86-88	15.53	13.37	17.97	4.60
Toyota	Cressida / Mark II	89-93	15.62	14.24	17.11	2.86
Toyota	Supra	82-90	20.27	17.07	23.90	6.83
Lexus	ES300 / Windom	92-01	16.74	14.14	19.71	5.57
Lexus	LS400 / Celsior	90-00	14.70	10.80	19.69	8.89
Toyota	Avalon	00-05	15.21	14.11	16.38	2.28
Toyota	Camry	02-06	16.21	15.47	16.97	1.50
Toyota	Aurion	06-10	13.45	11.77	15.32	3.54
Toyota	Camry	06-10	14.60	13.25	16.07	2.82
Volvo	850/S70/V70/C70	92-99	15.96	14.45	17.60	3.15
Volvo	700/900 Series	84-92	16.74	15.22	18.39	3.18
Volvo	960/S90/V90	90-98	16.69	11.57	23.47	11.90
Medium Cars			**18.24**	**18.08**	**18.41**	**0.33**
Alfa Romeo	156	99-06	16.43	13.51	19.83	6.32
Alfa Romeo	147 / GT	01-10	15.22	11.43	19.99	8.55
Audi	A4	95-01	14.75	12.64	17.14	4.50
Audi	A4	01-08	13.18	11.05	15.66	4.61
BMW	Z3 E36	97-03	13.22	9.54	18.05	8.51
BMW	5 Series E60 / E61	03-10	12.86	9.34	17.43	8.09
BMW	3 Series E90 /E91 /E92 /E93	05-10	17.46	14.73	20.57	5.84
BMW	3 Series E30	82-91	18.09	16.84	19.41	2.57
BMW	3 Series E36	92-98	17.64	16.65	18.67	2.02
BMW	3 Series E46	99-06	16.84	15.67	18.07	2.40
BMW	5 Series E28	82-88	15.15	12.89	17.73	4.84
BMW	5 Series E34	89-95	15.93	13.61	18.55	4.94
BMW	5 Series E39	96-03	11.77	9.90	13.94	4.04
Chrysler	PT Cruiser	00-10	17.28	12.99	22.62	9.63
Daewoo	Espero	95-97	24.09	21.55	26.82	5.27
Daewoo	Leganza	97-02	18.52	16.19	21.10	4.91
Daewoo	Tacuma	00-04	21.12	15.34	28.36	13.02
Ford	Mondeo	95-01	16.25	14.89	17.71	2.83
Ford	Mondeo	07-10	15.28	10.08	22.49	12.41
Ford	Probe	94-98	21.70	17.16	27.06	9.90
Ford	Cougar	99-03	17.62	15.23	20.29	5.07
Holden	Calibra	94-97	17.81	14.37	21.85	7.47

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Holden	Camira	82-89	24.93	24.21	25.67	1.47
Holden	Vectra	97-03	17.56	16.50	18.69	2.19
Holden	Vectra ZC	03-05	16.05	13.24	19.31	6.07
Hyundai	Sonata	98-01	17.70	15.70	19.90	4.20
Hyundai	Sonata EF	02-05	19.64	15.74	24.23	8.49
Hyundai	Tiburon	02-10	21.06	15.14	28.52	13.37
Hyundai	Sonata NF	05-10	20.30	15.32	26.40	11.07
Mitsubishi	Sigma / Galant / Sapporo / Lambda	82-84	22.05	21.24	22.89	1.64
Mitsubishi	Starion	82-87	22.99	16.98	30.36	13.38
Mitsubishi	Galant	95-96	20.47	18.56	22.52	3.96
Jaguar	X-Type	02-10	11.43	8.05	15.97	7.92
Kia	Credos	98-01	24.02	16.84	33.06	16.22
Ford / Mazda	Telstar / 626 / MX6 / Capella	83-86	21.42	20.58	22.29	1.71
Ford / Mazda	Telstar / 626 / MX6 / Capella	88-91	19.03	18.11	19.99	1.88
Ford / Mazda	Telstar / 626 / MX6 / Capella / Cronos	92-97	16.52	15.64	17.44	1.80
Mazda	626	98-02	16.62	15.23	18.12	2.89
Mazda	RX7	82-85	23.23	19.93	26.90	6.97
Mazda	RX7	86-91	18.19	14.42	22.69	8.27
Mazda	Eunos 500	93-99	23.08	19.16	27.53	8.37
Mazda	Eunos 800	94-00	14.22	9.11	21.52	12.41
Mazda	6	02-07	15.84	14.54	17.24	2.70
Mazda	RX-8	03-10	12.63	9.40	16.75	7.35
Mazda	6	08-10	13.91	9.97	19.08	9.11
Mercedes Benz	C-Class W201	87-93	17.49	15.11	20.15	5.04
Mercedes Benz	C-Class W202	95-00	15.16	13.47	17.03	3.56
Mercedes Benz	CLK C208	97-03	16.12	12.03	21.27	9.25
Mercedes Benz	SLK R170	97-04	16.25	12.02	21.59	9.57
Mercedes Benz	C-Class W203	00-07	14.34	12.48	16.43	3.94
Mercedes Benz	CLK C209	03-09	11.95	8.71	16.19	7.48
Mercedes Benz	C-Class W204	07-10	10.38	6.57	16.00	9.42
Nissan	Pintara	86-88	19.83	18.79	20.90	2.11
Nissan / Ford	Pintara / Corsair / Bluebird	89-92	21.33	20.51	22.18	1.68
Nissan	Bluebird	82-86	22.57	21.78	23.39	1.61
Nissan	280ZX	82-84	18.59	12.17	27.35	15.18
Nissan	Bluebird	93-97	16.16	14.58	17.87	3.29
Nissan	200SX / Silvia	94-02	15.40	13.70	17.28	3.58
Nissan	350Z	03-09	18.96	14.45	24.46	10.00
Honda	Accord Euro	03-08	15.40	13.88	17.04	3.16
Honda	Accord	03-07	15.41	13.38	17.69	4.31
Honda	Accord	82-85	23.06	21.23	25.01	3.78
Honda	Accord	86-90	18.43	16.87	20.09	3.22
Honda	Accord	91-93	14.57	12.95	16.35	3.40
Honda	Accord	94-98	15.51	14.38	16.71	2.33
Honda	Accord	99-02	15.45	13.16	18.05	4.89
Honda	Accord	08-10	10.63	7.22	15.40	8.18
Honda	Prelude	82-82	19.88	14.81	26.16	11.35
Honda	Prelude	83-91	19.60	18.26	21.02	2.76
Honda	Prelude	92-96	17.40	15.60	19.37	3.77
Honda	Prelude	97-02	17.29	14.86	20.02	5.16
Peugeot	405	89-97	16.27	13.50	19.49	5.99
Peugeot	505	82-93	13.47	11.03	16.35	5.32

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Peugeot	406	96-04	10.56	7.49	14.67	7.18
Porsche	944	82-91	15.36	8.77	25.54	16.77
Renault	Feugo	82-87	19.01	14.68	24.26	9.58
Rover	75	01-05	14.50	9.09	22.34	
Saab	900 Series	82-92	17.79	15.56	20.26	4.70
Saab	900/9-3	94-02	14.71	13.04	16.57	3.54
Saab	9000	86-97	16.54	14.41	18.92	4.51
Saab	9-3	03-10	15.17	11.41	19.89	8.47
Subaru	1800 / Leone / Omega / 4WD Wagon	82-93	21.96	20.98	22.96	1.98
Subaru	Liberty / Legacy	89-93	18.74	17.74	19.77	2.03
Subaru	Liberty / Legacy / Outback	94-98	16.21	14.98	17.52	2.53
Subaru	Liberty / Legacy / Outback	99-03	14.06	13.05	15.13	2.08
Subaru	Liberty / Legacy / Outback	03-09	12.01	10.75	13.40	2.65
Toyota	Corona	82-88	22.08	21.43	22.75	1.32
Toyota	Camry	83-86	21.14	19.82	22.53	2.71
Holden / Toyota	Apollo JK/JL / Camry / Vista	88-92	18.64	18.22	19.07	0.86
Holden / Toyota	Apollo JM/JP / Camry / Sceptor	93-97	19.40	18.92	19.88	0.96
Toyota	Celica	81-85	21.97	20.29	23.75	3.46
Toyota	Celica	86-89	19.04	17.46	20.72	3.26
Toyota	Celica	90-93	19.30	17.82	20.86	3.05
Toyota	Celica	94-99	20.30	18.52	22.21	3.69
Toyota	Celica	00-05	15.78	13.24	18.71	5.47
Lexus	IS200 / IS300	99-04	14.50	12.33	16.99	4.66
Lexus	IS350 / IS250 / IS F	05-10	11.48	8.62	15.13	6.50
Volvo	200 Series	82-93	15.27	14.04	16.58	2.54
Volvo	S60	01-09	9.14	6.01	13.65	7.63
Volkswagen	Passat	98-06	12.60	9.97	15.80	5.83
Volkswagen	Passat	06-10	10.33	6.23	16.63	10.40
People Movers			**18.63**	**18.23**	**19.03**	**0.81**
Chrysler	Voyager	97-01	13.36	10.84	16.37	5.53
Holden	Zafira TT	01-05	15.19	12.17	18.80	6.63
Mitsubishi	Nimbus / Chariot / Spacewagon	85-91	23.06	19.40	27.18	7.77
Mitsubishi	Nimbus / Chariot	92-98	19.88	17.42	22.60	5.18
Mitsubishi	Nimbus	99-03	12.70	9.75	16.39	6.64
Mitsubishi	Starwagon / L300	83-86	27.34	25.69	29.06	3.36
Mitsubishi	Starwagon / Delica Starwagon	87-93	22.71	21.58	23.89	2.31
Mitsubishi	Starwagon / Delica Spacegear	95-98	19.78	17.91	21.80	3.89
Mitsubishi	Starwagon / Delica Spacegear	98-03	16.87	15.14	18.74	3.60
Kia	Carnival	99-06	13.06	11.46	14.86	3.40
Kia	Carnival	06-10	10.77	8.06	14.24	6.17
Mazda	MPV	94-99	13.45	10.49	17.10	6.61
Mazda	MPV	00-06	9.82	6.96	13.67	6.71
Nissan	Prairie	84-86	24.14	19.97	28.86	8.89
Nissan	Serena	92-95	15.10	10.29	21.60	11.31
Honda	Odyssey	95-00	14.26	11.83	17.08	5.25
Honda	Odyssey	00-02	11.68	8.66	15.56	6.90
Honda	Odyssey	04-09	13.52	10.95	16.58	5.63
Toyota	Tarago	83-89	24.27	23.10	25.49	2.39
Toyota	Tarago / Previa / Estima	91-99	14.99	13.91	16.14	2.23
Toyota	Tarago / Previa / Estima	00-06	12.45	10.84	14.26	3.42

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Toyota	Spacia	93-00	17.55	13.37	22.70	9.32
Toyota	Avensis Verso	01-10	14.56	10.75	19.42	8.67
Toyota	Tarago	06-10	14.14	10.91	18.13	7.23
Small Cars			**20.64**	**20.48**	**20.79**	**0.30**
Alfa Romeo	33	83-92	20.71	17.55	24.27	6.73
Alfa Romeo	75	86-92	18.38	13.23	24.96	11.73
Alfa Romeo	GTV	82-84	16.13	10.44	24.08	13.64
Alfa Romeo	Sprint	82-88	24.03	16.79	33.14	16.35
Alfa Romeo	Alfasud	82-84	23.14	15.81	32.56	16.76
Audi	A3	04-09	12.33	7.73	19.08	11.34
Audi	A3/S3	97-04	16.86	13.79	20.45	6.66
Mini	Mini Cooper	02-10	16.86	13.35	21.06	7.71
BMW	1 Series E81 / E82 / E87 / E88	04-10	16.00	12.48	20.27	7.79
Chrysler	Neon	96-99	17.78	14.93	21.05	6.12
Chrysler	Neon	00-02	17.45	12.14	24.43	12.28
Citroen	C4	05-10	15.27	10.59	21.53	10.94
Citroen	Xsara	00-05	23.65	16.96	31.96	15.00
Daihatsu	Applause	89-99	22.88	21.53	24.28	2.75
Daewoo	1.5i	94-95	28.24	22.81	34.37	11.56
Daewoo	Cielo	95-97	23.79	22.59	25.03	2.44
Daewoo	Nubira	97-03	18.98	17.79	20.23	2.44
Daewoo	Lanos	97-03	21.69	20.68	22.73	2.04
Daewoo	Lacetti	03-04	18.23	13.79	23.70	9.91
Ford	Laser	91-94	21.77	21.14	22.42	1.28
Ford	Laser	95-97	20.29	19.27	21.36	2.09
Ford	Capri	89-94	26.38	24.38	28.48	4.09
Ford	Focus LR	02-05	17.96	16.38	19.65	3.28
Ford	Focus LS / LT	05-09	15.24	13.78	16.83	3.05
Fiat	Regata	84-88	17.53	12.82	23.51	10.69
Holden	Gemini	82-84	24.94	23.83	26.08	2.25
Holden	Gemini RB	86-87	28.03	25.53	30.68	5.15
Holden	Astra TR	96-98	18.52	16.63	20.57	3.94
Holden	Astra TS	98-06	17.65	17.02	18.29	1.28
Holden	Astra AH	04-09	16.32	15.07	17.66	2.59
Holden	Viva JF	05-09	17.93	15.94	20.11	4.17
Holden	Cruze JG	09-10	19.01	13.88	25.49	11.61
Hyundai	Excel	86-90	26.35	24.86	27.91	3.05
Hyundai	Excel	90-94	24.84	24.02	25.69	1.67
Hyundai	Excel / Accent	95-00	23.93	23.43	24.43	1.01
Hyundai	Elantra	00-06	18.97	17.74	20.26	2.51
Hyundai	Accent	06-10	18.43	14.65	22.92	8.27
Hyundai	i30	07-10	15.91	12.70	19.76	7.07
Hyundai	S Coupe	90-96	25.12	22.97	27.40	4.42
Hyundai	Lantra	91-95	21.84	20.31	23.46	3.15
Hyundai	Lantra	96-00	19.10	18.09	20.14	2.05
Hyundai	Coupe	96-00	18.83	16.67	21.21	4.54
Hyundai	Accent	00-06	19.74	18.80	20.70	1.90
Mitsubishi	Lancer / Mirage CA	89-90	20.47	19.43	21.56	2.14
Mitsubishi	Lancer / Mirage CB	91-92	23.38	20.78	26.19	5.41
Mitsubishi	Lancer / Mirage CC	93-95	20.99	20.11	21.90	1.79
Mitsubishi	Lancer / Mirage CE	96-03	21.31	20.77	21.86	1.08

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Mitsubishi	Cordia	83-87	24.93	22.77	27.22	4.45
Mitsubishi	Lancer CE / CG / Cedia	02-03	34.40	26.17	43.69	17.52
Mitsubishi	Lancer CH	03-07	17.77	16.58	19.02	2.43
Mitsubishi	Lancer CJ	08-10	15.14	11.45	19.75	8.30
Kia	Rio	00-05	20.80	19.46	22.20	2.74
Kia	Spectra	01-04	19.57	16.09	23.60	7.51
Kia	Cerato LD	04-08	20.69	17.92	23.76	5.84
Kia	Rio JB	05-10	17.92	15.81	20.24	4.43
Ford / Mazda	Laser / 323 / Familia	82-88	25.47	25.01	25.93	0.92
Mazda	323 / Familia / Lantis	90-93	20.63	19.47	21.84	2.37
Mazda	323 / Familia / Lantis	95-98	20.52	19.51	21.56	2.05
Ford / Mazda	Laser / 323	99-03	18.17	17.38	18.99	1.61
Mazda	MX5 / Eunos Roadster	89-97	22.40	18.79	26.47	7.68
Mazda	MX5 / Eunos Roadster	98-05	20.88	17.65	24.53	6.88
Mazda	Eunos 30X / Presso / MX-3 / Autozam AZ-3	90-97	19.05	16.18	22.29	6.11
Mazda	3 / Axela	03-09	15.48	14.66	16.33	1.67
Mazda	MX-5	05-10	18.41	12.50	26.27	13.77
Mazda	3 / Axela	09-10	14.77	10.48	20.43	9.95
Mercedes Benz	A-Class W168	98-04	18.75	15.41	22.63	7.21
Holden / Nissan	Astra / Pulsar / Langley	84-86	25.60	24.71	26.51	1.81
Holden / Nissan	Astra / Pulsar / Vector / Sentra	88-90	22.46	21.77	23.17	1.41
Nissan	Pulsar / Vector / Sentra	92-95	19.65	18.78	20.54	1.76
Nissan	Pulsar / Vector / Sentra	96-99	20.30	19.59	21.01	1.42
Nissan	Stanza	82-83	23.12	19.49	27.20	7.72
Nissan	Gazelle / Silvia	84-86	23.43	19.36	28.06	8.71
Nissan	Exa	83-86	30.15	26.03	34.62	8.59
Nissan	Exa	87-91	21.68	16.81	27.49	10.69
Nissan	NX/NX-R	91-96	22.63	20.08	25.41	5.33
Nissan	Pulsar	00-05	19.14	18.37	19.94	1.57
Nissan	Tiida	06-10	18.40	15.25	22.02	6.77
Honda	Civic	82-83	23.98	20.87	27.39	6.52
Honda	Civic / Ballade / Shuttle	84-87	24.80	23.15	26.53	3.38
Honda	Civic / Shuttle	88-91	22.11	20.93	23.34	2.41
Honda	Civic	92-95	20.72	19.66	21.82	2.16
Honda	Civic	96-00	19.50	18.53	20.50	1.97
Honda	CRX	87-91	25.64	21.31	30.50	9.19
Honda	CRX	92-98	20.53	15.89	26.10	10.21
Honda	S2000	99-09	11.48	8.16	15.91	7.75
Honda	Civic	01-05	16.33	14.84	17.94	3.11
Honda	Civic	06-10	14.96	13.20	16.90	3.71
Honda	Integra	86-88	22.41	19.23	25.95	6.71
Honda	Integra	90-92	20.65	17.90	23.70	5.81
Honda	Integra	93-01	18.90	16.79	21.22	4.43
Honda	Integra	02-06	19.23	15.58	23.50	7.92
Honda	Concerto	89-93	20.05	17.06	23.41	6.35
Peugeot	306	94-01	17.98	16.03	20.11	4.08
Peugeot	307	01-09	13.60	11.49	16.03	4.55
Proton	Wira	95-96	20.69	18.87	22.64	3.76
Proton	Gen 2	04-10	20.16	14.70	27.00	12.30
Renault	Megane II	03-10	17.97	12.74	24.73	12.00
Renault	19	91-96	21.53	17.02	26.84	9.82
Renault	Scenic	01-04	18.58	14.41	23.64	9.23

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Rover	Quintet	82-86	23.81	18.99	29.40	10.40
MG	MGF / MG TF	99-05	13.21	9.66	17.82	8.16
Subaru	Impreza	93-00	19.75	18.71	20.83	2.11
Subaru	Impreza	01-07	15.12	14.02	16.29	2.26
Subaru	Impreza	07-10	13.82	10.53	17.95	7.42
Suzuki	Baleno / Cultus Crescent	95-02	19.93	18.35	21.61	3.27
Suzuki	Liana	01-07	18.46	15.63	21.66	6.03
Toyota	Corolla	82-84	24.77	23.89	25.67	1.77
Toyota	Corolla	86-88	23.05	22.41	23.70	1.29
Toyota / Holden	Corolla / Nova	89-93	21.41	20.93	21.89	0.96
Toyota / Holden	Corolla / Nova	94-97	20.16	19.63	20.71	1.09
Toyota	Corolla / Allex	98-01	18.02	17.24	18.82	1.58
Toyota	Corolla	02-07	17.40	16.81	18.01	1.20
Toyota	Corolla	07-10	16.77	15.34	18.30	2.96
Toyota	Tercel	83-88	22.98	19.51	26.86	7.35
Toyota	MR2	87-90	24.71	19.89	30.25	10.36
Toyota	MR2	91-00	22.31	16.92	28.82	11.90
Toyota	Paseo / Cynos	91-99	21.21	19.38	23.17	3.79
Toyota	Corolla 4WD Wagon	92-96	17.37	14.61	20.53	5.92
Toyota	Prius II	03-09	12.90	9.97	16.53	6.56
Volvo	300 Series	84-88	17.15	12.12	23.69	11.57
Volvo	S40/V50	04-10	17.15	11.42	24.96	13.55
Volvo	S40/V40	97-04	15.40	13.25	17.83	4.59
Volkswagen	Golf	82-94	21.11	16.21	27.02	10.81
Volkswagen	Golf	95-98	16.94	14.99	19.09	4.10
Volkswagen	Golf / Bora	99-04	16.84	15.45	18.34	2.89
Volkswagen	New Beetle	00-10	16.02	12.97	19.63	6.67
Volkswagen	Golf / Jetta	04-10	14.13	12.45	16.00	3.54
Light Cars			**23.44**	**23.21**	**23.67**	**0.46**
Citroen	C3	02-10	19.75	14.69	26.03	11.34
Daihatsu	Charade	82-86	29.86	27.89	31.91	4.01
Daihatsu	Charade	88-92	26.14	25.16	27.14	1.98
Daihatsu	Charade	93-00	24.60	23.63	25.60	1.96
Daihatsu	Pyzar	97-01	21.27	17.80	25.20	7.39
Daihatsu	Sirion / Storia	98-04	23.75	21.91	25.69	3.78
Daihatsu	Charade	03-05	30.96	22.55	40.85	18.30
Daihatsu	Mira	90-96	35.75	32.67	38.95	6.29
Daewoo	Matiz	99-04	30.91	28.26	33.69	5.44
Daewoo	Kalos	03-04	20.57	17.45	24.08	6.64
Ford	Festiva WD/WH/WF	94-01	25.49	24.82	26.16	1.34
Ford	Ka	99-02	22.05	18.99	25.46	6.47
Ford	Fiesta WP/WQ	04-08	16.56	11.59	23.09	11.50
Holden	Barina XC	01-06	19.48	18.26	20.76	2.50
Holden	Barina SB	95-00	23.72	22.83	24.63	1.79
Holden	Barina TK	05-10	19.41	17.76	21.18	3.42
Hyundai	Getz / TB	02-10	19.15	18.11	20.24	2.12
Mitsubishi	Mirage / Colt	82-88	26.06	25.27	26.88	1.61
Mitsubishi	Colt	04-10	17.23	14.06	20.94	6.88
Ford / Mazda	Festiva WA / 121	87-90	25.93	24.97	26.91	1.93
Mazda	121 / Autozam Review	94-96	24.56	23.32	25.85	2.53
Mazda	121 Metro / Demio	97-02	21.36	20.03	22.76	2.73

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Mazda	2	02-07	16.99	15.16	18.99	3.83
Mazda	2	07-10	15.83	13.41	18.60	5.19
Nissan	Micra	95-97	24.49	22.03	27.13	5.10
Honda	Jazz / Fit	02-08	17.20	15.65	18.88	3.23
Honda	Jazz GE	08-10	16.18	11.41	22.43	11.01
Honda	City	83-86	32.77	28.35	37.51	9.16
Peugeot	205	87-94	20.23	15.72	25.65	9.92
Peugeot	206	99-07	17.31	15.12	19.75	4.63
Proton	Satria	97-05	23.79	18.60	29.90	11.29
Renault	Clio	01-08	19.81	15.45	25.03	9.58
Subaru	Sherpa / Fiori / 700 / Rex	89-92	38.60	35.36	41.95	6.59
Suzuki	Swift	82-85	29.51	23.90	35.83	11.93
Holden / Suzuki	Barina / Swift / Cultus	86-88	30.32	28.92	31.75	2.83
Holden / Suzuki	Barina / Swift / Cultus	89-99	25.39	24.76	26.02	1.26
Suzuki	Hatch / Alto	82-84	38.10	35.11	41.18	6.07
Suzuki	Alto	85-00	34.14	28.88	39.82	10.94
Suzuki	Ignis	00-02	25.13	22.06	28.48	6.42
Suzuki	Swift	05-10	19.31	17.82	20.90	3.09
Toyota	Starlet	96-99	22.65	21.57	23.76	2.19
Toyota	Echo	99-05	20.01	19.16	20.88	1.71
Toyota	Yaris	05-10	17.92	16.75	19.14	2.39
Volkswagen	Polo	96-00	21.08	18.20	24.29	6.09
Volkswagen	Polo	02-10	17.86	14.64	21.60	6.96

APPENDIX 3

LOGISTIC REGRESSION ESTIMATES OF CRASHWORTHINESS INJURY SEVERITY BY MODEL AND MARKET GROUP

CRASHWORTHINESS INJURY SEVERITY RATINGS

New South Wales and Victoria Data (1987-2010), South Australia Data (1995-2010), Queensland Data (1991-2009), Western Australia and New Zealand Data (1991-2010)

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
ALL VEHICLE AVERAGE			**20.73**			
Compact Sports Utility Vehicles			**19.67**	**18.88**	**20.48**	**1.60**
Daihatsu	Feroza / Rocky	89-97	24.77	19.43	31.03	11.60
Daihatsu	Rocky / Rugger	85-98	29.37	22.61	37.18	14.57
Daihatsu	Terios	97-05	19.58	15.16	24.91	9.75
Holden	Cruze	02-06	23.12	18.15	28.96	10.81
Hyundai	Tucson	04-10	30.26	17.91	46.32	28.41
Mitsubishi	Outlander	03-06	19.47	11.77	30.46	18.69
Mitsubishi / Peugeot	Outlander / 4007	06-10	12.62	5.26	27.34	22.08
Kia	Sportage	98-03	17.84	13.04	23.91	10.87
Kia	Sorento	03-09	25.80	15.92	38.97	23.06
Kia	Sportage KM	05-10	29.64	15.51	49.14	33.63
Ford / Mazda	Escape / Tribute	01-06	20.83	16.61	25.79	9.18
Mazda	CX-7	06-10	9.45	3.51	23.05	19.55
Nissan	X-Trail	01-07	18.20	15.21	21.62	6.41
Lada	Niva	84-99	21.83	14.30	31.86	17.56
Honda	CR-V	97-01	19.45	16.01	23.42	7.41
Honda	CR-V	02-06	15.35	12.02	19.39	7.37
Honda	HR-V	99-02	25.69	17.31	36.36	19.05
Honda	CR-V	07-10	23.08	14.59	34.52	19.93
Land Rover	Freelander	98-06	31.00	19.59	45.30	25.72
Subaru	Forester	08-10	21.34	10.27	39.14	28.87
Subaru	Forester	97-02	18.64	15.31	22.50	7.19
Subaru	Forester	02-08	17.38	13.82	21.62	7.80
Suzuki	Vitara / Escudo	88-98	24.48	21.69	27.50	5.81
Suzuki	Grand Vitara	99-05	18.79	14.13	24.54	10.41
Holden / Suzuki	Drover / Sierra / Samurai / SJ410 / SJ413	82-99	22.63	20.20	25.26	5.06
Suzuki	Jimny	98-10	19.83	14.07	27.21	13.15
Suzuki	Grand Vitara	05-08	17.85	10.78	28.10	17.32
Suzuki	SX4	07-10	11.85	4.36	28.39	24.03
Toyota	RAV4	94-00	21.69	18.76	24.95	6.19
Toyota	RAV4	01-06	19.66	16.55	23.20	6.65
Toyota	RAV4	06-10	20.81	15.67	27.09	11.42
Medium Sports Utility Vehicles			**19.36**	**18.36**	**20.40**	**2.03**
Daewoo / Ssangong	Musso	98-02	31.64	20.34	45.63	25.29
Ford	Territory SX/SY	04-10	15.92	11.87	21.03	9.16
Holden / Isuzu	Jackaroo / Bighorn	82-91	17.48	13.43	22.43	9.00
Holden / Isuzu	Jackaroo / Bighorn	92-97	18.61	13.92	24.43	10.52
Holden / Isuzu	Jackaroo / Bighorn	98-02	22.10	16.69	28.64	11.95

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Holden	Frontera / Mu	95-03	20.29	13.50	29.34	15.84
Holden	Adventra	03-06	11.61	5.22	23.85	18.63
Holden	Captiva CG	06-10	11.55	6.43	19.88	13.45
Hyundai	Santa Fe	00-06	24.83	16.08	36.29	20.21
Hyundai	Terracan	01-07	15.34	6.76	31.18	24.42
Mitsubishi	Pajero	82-90	25.75	22.07	29.80	7.73
Mitsubishi	Pajero	92-99	22.72	19.45	26.36	6.91
Mitsubishi	Pajero NM / NP / NS	00-06	20.11	14.66	26.95	12.30
Mitsubishi	Pajero NM / NP / NS	07-10	16.72	5.35	41.62	36.26
Mitsubishi	Challenger	98-06	26.65	18.79	36.33	17.53
Jeep	Cherokee XJ	96-00	22.83	18.38	27.99	9.61
Jeep	Wrangler	96-04	23.08	15.47	32.98	17.51
Jeep	Cherokee KJ	01-07	17.85	10.78	28.09	17.30
Jeep	Wrangler	05-10	8.94	2.78	25.25	22.47
Land Rover	Defender	92-10	29.54	20.26	40.88	20.61
Nissan	Pathfinder / Terrano	88-94	21.80	17.41	26.93	9.53
Nissan	Pathfinder / Terrano / Regulus	95-05	16.14	12.03	21.32	9.29
Nissan	Murano	05-08	8.87	2.22	29.47	27.25
Nissan	Pathfinder	05-10	7.77	3.15	17.93	14.78
Toyota	Kluger / Highlander	03-07	21.08	14.92	28.93	14.01
Toyota	Landcruiser Prado	96-03	22.35	17.75	27.74	9.99
Toyota	Landcruiser Prado	03-09	16.99	13.53	21.13	7.60
Lexus	RX330	03-05	30.09	15.84	49.62	33.78
Toyota	Kluger / Highlander	07-10	13.27	6.40	25.50	19.10
Volvo	XC 90	03-10	18.41	6.89	40.77	33.87
Large Sports Utility Vehicles			**21.14**	**20.35**	**21.96**	**1.61**
BMW	X5	01-08	12.23	5.81	23.93	18.12
Ford	Bronco	82-87	38.72	22.32	58.15	35.83
Ford	Explorer	00-01	23.61	17.05	31.72	14.66
Ford	Explorer	01-05	16.71	9.95	26.68	16.73
Jeep	Grand Cherokee ZG	96-99	17.46	9.80	29.16	19.37
Jeep	Grand Cherokee WG	99-05	17.29	10.10	28.01	17.90
Land Rover	Discovery	91-02	18.97	14.41	24.56	10.15
Mercedes Benz	M-Class W163	98-05	21.96	12.31	36.06	23.75
Nissan	Patrol / Safari	82-87	24.75	19.75	30.52	10.76
Nissan / Ford	Patrol / Maverick / Safari	88-97	22.39	20.12	24.84	4.72
Nissan	Patrol / Safari	98-10	21.11	18.36	24.15	5.79
Land Rover	Range Rover	82-94	20.48	15.49	26.57	11.08
Land Rover	Range Rover	95-02	10.78	5.03	21.61	16.58
Toyota	Landcruiser	82-89	27.25	24.97	29.65	4.68
Toyota	Landcruiser	90-97	23.83	22.01	25.75	3.73
Toyota	Landcruiser	98-07	20.91	18.85	23.13	4.28
Commercial - Vans			**21.01**	**20.08**	**21.96**	**1.88**
Daihatsu	Handivan	82-90	26.30	21.08	32.29	11.21
Daihatsu	Hi-Jet	82-90	29.19	20.03	40.43	20.40
Daihatsu	Handivan / Cuore	99-03	23.09	14.12	35.40	21.29
Ford	Falcon Panel Van	82-95	20.89	17.50	24.75	7.25
Ford	Falcon Panel Van	96-99	19.05	11.63	29.62	17.99
Ford	Transit	95-00	20.75	15.01	27.97	12.97

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Ford	Transit	01-07	12.43	8.04	18.71	10.67
Holden	Shuttle / WFR Van	82-87	28.30	20.07	38.29	18.22
Kia	Pregio	02-06	19.37	13.37	27.21	13.85
Mercedes Benz	MB100 / MB140	99-04	21.27	11.06	36.98	25.93
Mercedes Benz	Vito	99-04	20.17	11.41	33.15	21.74
Mercedes Benz	Sprinter	98-06	16.50	10.54	24.87	14.33
Honda	Acty	83-86	24.05	14.91	36.39	21.48
Holden / Suzuki	Scurry / Carry	82-00	29.14	22.70	36.54	13.84
Suzuki	Carry	99-05	23.64	10.96	43.79	32.83
Toyota	Hiace/Liteace	82-86	26.27	23.60	29.13	5.53
Toyota	Hiace/Liteace	87-89	24.32	21.20	27.75	6.56
Toyota	Hiace/Liteace	90-95	25.95	23.24	28.85	5.61
Toyota	Hiace/Liteace	96-04	21.37	18.80	24.18	5.37
Toyota	Hiace	05-10	25.96	18.94	34.49	15.55
Volkswagen	Caravelle / Transporter	88-94	21.30	10.23	39.14	28.91
Volkswagen	Caravelle / Transporter	95-04	11.92	7.19	19.12	11.93
Volkswagen	Caddy	05-10	15.53	6.97	31.08	24.10
Commercial - Utes			**20.96**	**20.46**	**21.48**	**1.02**
Ford / Nissan	Falcon Ute / XFN Ute	82-95	24.57	22.50	26.77	4.27
Ford	Falcon Ute	96-99	20.88	17.44	24.79	7.34
Ford	Falcon Ute AU	00-02	18.83	15.78	22.32	6.55
Ford	Falcon Ute BA/BF	03-08	19.30	16.11	22.95	6.84
Ford	Ford F-Series	82-92	19.05	13.24	26.64	13.40
Ford	F-Series	01-06	28.08	15.77	44.88	29.11
Holden	Commodore Ute VG/VP	90-93	26.70	22.26	31.66	9.40
Holden / Isuzu	Rodeo / Pickup	82-85	24.13	17.82	31.80	13.97
Holden / Isuzu	Rodeo / Pickup	86-88	13.28	7.39	22.72	15.33
Holden / Isuzu	Rodeo / Pickup	89-95	25.00	22.64	27.53	4.89
Holden	Rodeo	96-98	20.32	17.33	23.69	6.36
Holden	Rodeo	99-02	22.72	19.73	26.03	6.30
Holden	WB Series	82-85	32.09	26.79	37.90	11.10
Holden	Commodore Ute VR/VS	94-00	24.97	22.83	27.24	4.40
Holden	Commodore VU Ute	00-02	23.03	19.34	27.20	7.86
Holden	Commodore VY/VZ Ute	02-07	19.95	17.57	22.56	4.98
Holden	Rodeo	03-08	18.34	15.81	21.18	5.37
Holden	Commodore VE Ute	07-10	17.06	9.88	27.84	17.95
Holden	Colorado RC	08-10	10.83	4.70	23.01	18.31
Mitsubishi	Triton MK	96-06	18.28	13.49	24.30	10.81
Mitsubishi	Triton ML / MN	06-10	15.23	10.06	22.38	12.32
Kia	Ceres	92-00	28.65	23.44	34.49	11.05
Kia	K2700	02-08	35.40	19.45	55.44	35.99
Ford / Mazda	Courier / B-Series / Bounty	98-02	21.20	17.67	25.23	7.56
Ford / Mazda	Courier / Bravo / Bounty	03-06	18.63	15.08	22.80	7.72
Ford / Mazda	Ranger / BT-50	06-10	15.15	11.60	19.54	7.95
Nissan	720 Ute	82-85	23.29	19.00	28.20	9.20
Nissan	Navara	86-91	24.46	21.55	27.63	6.07
Nissan	Navara	92-96	23.63	19.74	28.03	8.29
Nissan	Navara	97-05	22.15	18.82	25.87	7.05
Nissan	Navara	05-10	19.92	14.46	26.80	12.34
Proton	Jumbuck	03-10	21.99	10.28	40.96	30.67
Subaru	Brumby	82-92	30.74	26.62	35.18	8.56

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Suzuki	Mighty Boy	85-88	27.11	20.72	34.61	13.89
Toyota	4Runner/Hilux	82-85	25.13	22.69	27.73	5.04
Toyota	4Runner/Hilux	86-88	25.07	22.62	27.70	5.09
Toyota	4Runner/Hilux	89-97	24.25	22.92	25.63	2.71
Toyota	Hilux	98-02	19.68	17.64	21.90	4.26
Toyota	Hilux	03-04	19.41	16.02	23.32	7.30
Toyota	Hilux	05-10	17.20	14.71	20.03	5.32
Large Cars			**20.62**	**20.31**	**20.94**	**0.63**
BMW	7 Series E23	82-86	25.44	12.47	44.97	32.50
BMW	7 Series E32	87-94	27.69	18.02	40.02	22.00
BMW	7 Series E38	95-01	14.85	6.18	31.57	25.39
Ford	Falcon XE/XF	82-88	24.96	23.99	25.95	1.97
Ford	Fairlane Z & LTD F	82-87	24.52	22.02	27.22	5.20
Ford	Falcon EA / Falcon EB Series I	88-Mar 92	23.55	22.53	24.61	2.08
Ford	Falcon EB Series II / Falcon ED	Apr 92-94	23.43	22.02	24.91	2.90
Ford	Fairlane N & LTD D	88-94	22.93	20.29	25.81	5.52
Ford	Fairlane N & LTD D	95-98	22.52	18.56	27.03	8.47
Ford	Fairlane & LTD AU	99-02	19.29	13.97	26.02	12.05
Ford	Fairlane & LTD BA/BF	03-07	21.93	13.08	34.39	21.31
Ford	Falcon FG	08-10	12.79	7.96	19.94	11.98
Ford	Falcon EF/EL	94-98	21.49	20.53	22.47	1.94
Ford	Falcon AU	98-02	20.42	19.21	21.68	2.47
Ford	Taurus	96-98	22.76	16.00	31.32	15.32
Ford	Falcon BA/BF	02-08	18.58	17.22	20.03	2.81
Holden / Toyota	Commodore VN/VP / Lexcen	89-93	25.21	24.31	26.14	1.83
Holden	Statesman/Caprice WB	82-85	41.35	27.57	56.62	29.05
Holden	Stateman/Caprice VQ	90-93	29.16	21.96	37.59	15.63
Holden	Stateman/Caprice VR/VS	94-98	22.11	19.34	25.15	5.80
Holden / Toyota	Commodore VR/VS / Lexcen	93-97	22.81	21.91	23.74	1.84
Holden	Commodore VT/VX	97-02	20.26	19.34	21.22	1.88
Holden	Statesman/Caprice WH	99-03	17.78	13.46	23.12	9.66
Holden	Commodore VY/VZ	02-07	17.68	16.31	19.13	2.82
Holden	Monaro	01-05	21.18	15.64	28.03	12.39
Holden	Statesman/Caprice WK/WL	03-06	21.27	14.06	30.84	16.78
Holden	Commodore VB-VL	82-88	26.03	25.03	27.04	2.01
Holden	Commodore VE	06-10	17.63	15.30	20.22	4.93
Hyundai	Sonata	89-97	20.45	17.59	23.65	6.07
Hyundai	Grandeaur / XG	99-00	10.25	3.83	24.66	20.83
Mitsubishi	Magna TM/TN/TP / Sigma / V3000	85-90	24.76	23.49	26.07	2.58
Mitsubishi	Magna TE/TF/TH/TJ / Verada KE/KF/KH/KJ / Diamante	96-03	22.03	20.50	23.64	3.14
Mitsubishi	Magna TR/TS / Verada KR/KS / V3000 / Diamante	91-96	21.86	20.59	23.18	2.58
Mitsubishi	Magna TL/TW / Verada KL/KW	03-05	17.39	13.29	22.41	9.12
Mitsubishi	380	05-08	13.86	8.45	21.89	13.44
Jaguar	XJ6	82-86	30.24	18.86	44.70	25.84
Jaguar	XJ6	87-94	14.86	8.28	25.23	16.94
Jaguar	S-Type	99-08	16.33	6.79	34.34	27.56

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Kia	Optima	01-06	15.86	5.92	36.10	30.18
Mazda	929 / Luce	82-90	24.34	21.34	27.62	6.29
Mazda	929 / Sentia / Efini MS-9	92-96	23.72	13.81	37.64	23.83
Mercedes Benz	E-Class W123	82-85	21.79	12.35	35.51	23.16
Mercedes Benz	E-Class W124	86-94	18.78	13.88	24.90	11.01
Mercedes Benz	E-Class W210	96-02	17.10	10.99	25.64	14.65
Mercedes Benz	S-Class W126	82-92	21.65	15.12	29.99	14.87
Mercedes Benz	E-Class W211	02-09	15.56	6.38	33.27	26.88
Nissan	Skyline	83-88	25.17	23.03	27.43	4.40
Nissan	300ZX / Fairlady Z	90-95	22.24	16.19	29.76	13.58
Nissan	Maxima	90-94	22.40	18.29	27.12	8.83
Nissan	Maxima / Cefiro	95-99	21.72	17.88	26.13	8.25
Nissan	Maxima	00-02	20.90	15.22	28.00	12.79
Nissan	Maxima	06-09	17.53	11.29	26.19	14.90
Honda	Legend	86-95	23.26	17.52	30.18	12.66
Rover	3500	82-87	11.27	4.27	26.58	22.31
Saab	9-5	98-05	14.32	6.54	28.54	22.00
Toyota	Camry	98-02	20.18	18.66	21.79	3.13
Toyota	Crown / Cressida / Mark II	82-85	24.59	20.88	28.72	7.84
Toyota	Crown / Cressida / Mark II	86-88	30.78	23.44	39.24	15.80
Toyota	Cressida / Mark II	89-93	20.73	16.85	25.23	8.38
Toyota	Supra	82-90	30.64	23.02	39.48	16.45
Lexus	ES300 / Windom	92-01	22.67	16.65	30.08	13.43
Lexus	LS400 / Celsior	90-00	11.32	4.64	25.12	20.49
Toyota	Avalon	00-05	19.69	16.58	23.22	6.64
Toyota	Camry	02-06	16.89	15.00	18.96	3.96
Toyota	Aurion	06-10	16.88	11.77	23.60	11.83
Toyota	Camry	06-10	18.24	14.42	22.80	8.38
Volvo	850/S70/V70/C70	92-99	20.58	16.20	25.77	9.58
Volvo	700/900 Series	84-92	17.12	13.26	21.81	8.55
Volvo	960/S90/V90	90-98	18.05	7.43	37.68	30.25
Medium Cars			**20.43**	**20.05**	**20.80**	**0.75**
Alfa Romeo	156	99-06	18.04	10.07	30.18	20.11
Alfa Romeo	147 / GT	01-10	20.79	9.57	39.44	29.88
Audi	A4	95-01	23.92	17.44	31.86	14.42
Audi	A4	01-08	12.29	6.70	21.48	14.77
BMW	Z3 E36	97-03	22.92	12.58	38.05	25.48
BMW	5 Series E60 / E61	03-10	15.87	6.47	33.98	27.51
BMW	3 Series E90 /E91 /E92 /E93	05-10	8.67	4.35	16.54	12.19
BMW	3 Series E30	82-91	22.60	19.64	25.85	6.20
BMW	3 Series E36	92-98	19.34	16.97	21.94	4.97
BMW	3 Series E46	99-06	18.89	15.65	22.62	6.97
BMW	5 Series E28	82-88	23.64	16.86	32.08	15.22
BMW	5 Series E34	89-95	20.58	15.15	27.33	12.18
BMW	5 Series E39	96-03	19.09	13.29	26.64	13.35
Chrysler	PT Cruiser	00-10	14.48	5.60	32.58	26.98
Daewoo	Espero	95-97	25.69	20.11	32.21	12.10
Daewoo	Leganza	97-02	20.61	15.12	27.44	12.32
Daewoo	Tacuma	00-04	35.12	18.70	56.02	37.33
Ford	Mondeo	95-01	18.62	15.70	21.93	6.23
Ford	Mondeo	07-10	15.13	4.78	38.76	33.98

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Ford	Probe	94-98	22.53	13.93	34.33	20.40
Ford	Cougar	99-03	16.04	11.32	22.23	10.92
Holden	Calibra	94-97	22.09	15.18	30.99	15.82
Holden	Camira	82-89	23.98	22.56	25.46	2.91
Holden	Vectra	97-03	18.09	15.53	20.98	5.45
Holden	Vectra ZC	03-05	16.22	10.42	24.36	13.93
Hyundai	Sonata	98-01	23.76	17.44	31.51	14.07
Hyundai	Sonata EF	02-05	15.16	6.43	31.72	25.28
Hyundai	Tiburon	02-10	13.76	4.43	35.44	31.01
Hyundai	Sonata NF	05-10	6.48	1.52	23.72	22.19
Mitsubishi	Sigma / Galant / Sapporo / Lambda	82-84	23.94	22.32	25.64	3.33
Mitsubishi	Starion	82-87	41.35	29.46	54.35	24.89
Mitsubishi	Galant	95-96	22.27	18.82	26.16	7.35
Jaguar	X-Type	02-10	11.14	3.55	29.92	26.37
Kia	Credos	98-01	24.45	10.55	47.03	36.48
Ford / Mazda	Telstar / 626 / MX6 / Capella	83-86	22.79	21.22	24.45	3.23
Ford / Mazda	Telstar / 626 / MX6 / Capella	88-91	22.75	20.91	24.70	3.80
Ford / Mazda	Telstar / 626 / MX6 / Capella / Cronos	92-97	23.84	21.72	26.10	4.38
Mazda	626	98-02	19.45	16.12	23.27	7.15
Mazda	RX7	82-85	24.72	18.41	32.35	13.94
Mazda	RX7	86-91	24.83	17.69	33.67	15.98
Mazda	Eunos 500	93-99	16.76	9.92	26.90	16.97
Mazda	Eunos 800	94-00	20.55	8.48	41.92	33.44
Mazda	6	02-07	14.77	11.91	18.17	6.27
Mazda	RX-8	03-10	8.38	2.62	23.70	21.08
Mazda	6	08-10	11.07	4.60	24.33	19.72
Mercedes Benz	C-Class W201	87-93	23.79	17.71	31.18	13.47
Mercedes Benz	C-Class W202	95-00	19.52	14.63	25.56	10.92
Mercedes Benz	CLK C208	97-03	20.41	9.93	37.36	27.43
Mercedes Benz	SLK R170	97-04	14.44	4.66	36.81	32.15
Mercedes Benz	C-Class W203	00-07	18.39	12.20	26.76	14.56
Mercedes Benz	CLK C209	03-09	13.78	5.14	32.03	26.89
Mercedes Benz	C-Class W204	07-10	10.90	3.38	29.98	26.60
Nissan	Pintara	86-88	24.75	22.18	27.51	5.33
Nissan / Ford	Pintara / Corsair / Bluebird	89-92	24.72	22.94	26.60	3.66
Nissan	Bluebird	82-86	26.28	24.61	28.03	3.42
Nissan	280ZX	82-84	30.21	15.47	50.58	35.10
Nissan	Bluebird	93-97	22.64	19.73	25.86	6.13
Nissan	200SX / Silvia	94-02	23.25	18.25	29.13	10.88
Nissan	350Z	03-09	26.56	15.96	40.78	24.81
Honda	Accord Euro	03-08	17.27	13.11	22.40	9.29
Honda	Accord	03-07	14.52	10.13	20.39	10.26
Honda	Accord	82-85	25.09	22.44	27.94	5.50
Honda	Accord	86-90	22.44	19.81	25.32	5.51
Honda	Accord	91-93	24.99	20.96	29.50	8.54
Honda	Accord	94-98	23.00	20.05	26.25	6.20
Honda	Accord	99-02	15.61	10.94	21.79	10.85
Honda	Accord	08-10	33.20	18.17	52.66	34.49
Honda	Prelude	82-82	19.33	8.97	36.81	27.84
Honda	Prelude	83-91	25.00	22.66	27.50	4.84
Honda	Prelude	92-96	25.21	21.06	29.87	8.81

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Honda	Prelude	97-02	15.34	10.44	21.98	11.54
Peugeot	405	89-97	23.17	17.29	30.30	13.01
Peugeot	505	82-93	21.55	15.12	29.75	14.63
Peugeot	406	96-04	22.50	13.10	35.85	22.75
Porsche	944	82-91	34.08	16.22	57.99	41.77
Renault	Feugo	82-87	22.25	13.82	33.80	19.98
Rover	75	01-05	20.18	8.22	41.64	33.42
Saab	900 Series	82-92	23.21	17.76	29.73	11.97
Saab	900/9-3	94-02	16.10	11.51	22.06	10.55
Saab	9000	86-97	14.09	9.55	20.31	10.77
Saab	9-3	03-10	19.49	10.24	33.96	23.72
Subaru	1800 / Leone / Omega / 4WD Wagon	82-93	23.98	21.94	26.16	4.22
Subaru	Liberty / Legacy	89-93	22.03	20.01	24.19	4.19
Subaru	Liberty / Legacy / Outback	94-98	21.24	18.67	24.05	5.38
Subaru	Liberty / Legacy / Outback	99-03	18.02	15.06	21.42	6.36
Subaru	Liberty / Legacy / Outback	03-09	19.69	15.32	24.94	9.62
Toyota	Corona	82-88	24.34	22.88	25.87	2.99
Toyota	Camry	83-86	25.13	21.89	28.68	6.78
Holden / Toyota	Apollo JK/JL / Camry / Vista	88-92	23.20	22.04	24.40	2.36
Holden / Toyota	Apollo JM/JP / Camry / Sceptor	93-97	23.43	22.14	24.77	2.63
Toyota	Celica	81-85	21.41	18.18	25.04	6.86
Toyota	Celica	86-89	24.60	20.60	29.10	8.50
Toyota	Celica	90-93	25.52	21.87	29.55	7.68
Toyota	Celica	94-99	19.48	15.47	24.24	8.76
Toyota	Celica	00-05	22.96	14.86	33.73	18.87
Lexus	IS200 / IS300	99-04	11.73	5.87	22.08	16.21
Lexus	IS350 / IS250 / IS F	05-10	21.94	9.38	43.27	33.89
Volvo	200 Series	82-93	23.75	19.75	28.28	8.53
Volvo	S60	01-09	19.67	7.51	42.48	34.97
Volkswagen	Passat	98-06	17.42	10.74	27.00	16.26
Volkswagen	Passat	06-10	14.20	5.90	30.42	24.53
People Movers			**21.39**	**20.42**	**22.40**	**1.98**
Chrysler	Voyager	97-01	15.31	7.82	27.81	19.99
Holden	Zafira TT	01-05	20.35	11.66	33.09	21.43
Mitsubishi	Nimbus / Chariot / Spacewagon	85-91	21.67	16.43	28.01	11.58
Mitsubishi	Nimbus / Chariot	92-98	22.53	17.43	28.61	11.18
Mitsubishi	Nimbus	99-03	15.59	7.13	30.75	23.62
Mitsubishi	Starwagon / L300	83-86	29.57	26.23	33.15	6.92
Mitsubishi	Starwagon / Delica Starwagon	87-93	24.79	22.30	27.47	5.17
Mitsubishi	Starwagon / Delica Spacegear	95-98	21.35	16.87	26.65	9.79
Mitsubishi	Starwagon / Delica Spacegear	98-03	27.74	22.21	34.05	11.85
Kia	Carnival	99-06	20.16	14.83	26.81	11.98
Kia	Carnival	06-10	10.96	4.52	24.25	19.73
Mazda	MPV	94-99	14.56	6.07	31.00	24.93
Mazda	MPV	00-06	24.09	9.51	48.91	39.40
Nissan	Prairie	84-86	21.36	15.50	28.70	13.20
Nissan	Serena	92-95	16.46	10.89	24.10	13.21
Honda	Odyssey	95-00	17.83	13.11	23.77	10.66
Honda	Odyssey	00-02	21.50	9.88	40.61	30.73

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Honda	Odyssey	04-09	7.29	2.76	17.93	15.18
Toyota	Tarago	83-89	26.57	23.79	29.55	5.76
Toyota	Tarago / Previa / Estima	91-99	22.36	18.69	26.52	7.83
Toyota	Tarago / Previa / Estima	00-06	19.06	13.49	26.24	12.75
Toyota	Spacia	93-00	20.20	9.95	36.69	26.74
Toyota	Avensis Verso	01-10	37.87	20.98	58.32	37.35
Toyota	Tarago	06-10	13.91	5.76	29.94	24.18
Small Cars			**20.78**	**20.45**	**21.12**	**0.66**
Alfa Romeo	33	83-92	24.59	17.73	33.03	15.30
Alfa Romeo	75	86-92	18.57	7.20	40.12	32.91
Alfa Romeo	GTV	82-84	49.11	28.93	69.58	40.65
Alfa Romeo	Sprint	82-88	21.59	10.07	40.37	30.29
Alfa Romeo	Alfasud	82-84	30.63	14.51	53.45	38.94
Audi	A3	04-09	18.26	6.95	40.03	33.08
Audi	A3/S3	97-04	13.22	6.99	23.60	16.61
Mini	Mini Cooper	02-10	17.30	10.93	26.28	15.35
BMW	1 Series E81 / E82 / E87 / E88	04-10	10.80	4.49	23.78	19.29
Chrysler	Neon	96-99	24.08	16.06	34.47	18.41
Chrysler	Neon	00-02	30.37	15.24	51.42	36.18
Citroen	C4	05-10	25.45	9.89	51.50	41.60
Citroen	Xsara	00-05	10.19	2.58	32.70	30.11
Daihatsu	Applause	89-99	22.37	19.16	25.94	6.77
Daewoo	1.5i	94-95	24.01	12.70	40.68	27.98
Daewoo	Cielo	95-97	21.08	18.59	23.82	5.23
Daewoo	Nubira	97-03	21.25	18.25	24.60	6.35
Daewoo	Lanos	97-03	24.39	21.95	27.00	5.05
Daewoo	Lacetti	03-04	22.97	11.75	40.04	28.29
Ford	Laser	91-94	23.13	21.71	24.62	2.91
Ford	Laser	95-97	24.13	21.60	26.85	5.25
Ford	Capri	89-94	23.44	19.44	27.97	8.53
Ford	Focus LR	02-05	16.27	13.00	20.18	7.17
Ford	Focus LS / LT	05-09	18.63	14.83	23.13	8.30
Fiat	Regata	84-88	29.52	15.60	48.69	33.09
Holden	Gemini	82-84	24.36	22.21	26.65	4.44
Holden	Gemini RB	86-87	22.51	18.18	27.53	9.35
Holden	Astra TR	96-98	20.69	16.36	25.81	9.46
Holden	Astra TS	98-06	17.72	16.09	19.47	3.38
Holden	Astra AH	04-09	17.08	13.69	21.12	7.43
Holden	Viva JF	05-09	17.54	13.00	23.23	10.23
Holden	Cruze JG	09-10	15.37	7.01	30.43	23.42
Hyundai	Excel	86-90	26.75	23.92	29.78	5.86
Hyundai	Excel	90-94	25.65	23.77	27.61	3.84
Hyundai	Excel / Accent	95-00	23.26	22.05	24.52	2.46
Hyundai	Elantra	00-06	21.87	18.24	26.00	7.76
Hyundai	Accent	06-10	10.76	4.58	23.25	18.67
Hyundai	i30	07-10	21.44	13.56	32.21	18.65
Hyundai	S Coupe	90-96	25.32	20.50	30.82	10.32
Hyundai	Lantra	91-95	24.93	20.93	29.41	8.48
Hyundai	Lantra	96-00	24.90	22.02	28.02	5.99
Hyundai	Coupe	96-00	27.24	20.89	34.68	13.79
Hyundai	Accent	00-06	23.58	20.90	26.50	5.60

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Mitsubishi	Lancer / Mirage CA	89-90	23.36	21.09	25.80	4.71
Mitsubishi	Lancer / Mirage CB	91-92	25.04	20.46	30.26	9.80
Mitsubishi	Lancer / Mirage CC	93-95	23.16	21.11	25.35	4.23
Mitsubishi	Lancer / Mirage CE	96-03	22.17	20.74	23.67	2.93
Mitsubishi	Cordia	83-87	26.92	23.39	30.77	7.38
Mitsubishi	Lancer CE / CG / Cedia	02-03	23.04	11.70	40.34	28.64
Mitsubishi	Lancer CH	03-07	20.93	17.31	25.08	7.77
Mitsubishi	Lancer CJ	08-10	22.65	12.06	38.47	26.41
Kia	Rio	00-05	21.77	18.72	25.16	6.43
Kia	Spectra	01-04	21.93	14.00	32.65	18.66
Kia	Cerato LD	04-08	18.40	12.76	25.80	13.03
Kia	Rio JB	05-10	22.79	17.93	28.50	10.58
Ford / Mazda	Laser / 323 / Familia	82-88	24.74	23.84	25.67	1.83
Mazda	323 / Familia / Lantis	90-93	22.74	20.73	24.87	4.14
Mazda	323 / Familia / Lantis	95-98	22.43	20.05	25.00	4.94
Ford / Mazda	Laser / 323	99-03	19.19	17.18	21.37	4.19
Mazda	MX5 / Eunos Roadster	89-97	21.26	14.01	30.91	16.89
Mazda	MX5 / Eunos Roadster	98-05	15.46	9.16	24.90	15.74
Mazda	Eunos 30X / Presso / MX-3 / Autozam AZ-3	90-97	21.26	14.39	30.26	15.87
Mazda	3 / Axela	03-09	17.02	14.85	19.44	4.59
Mazda	MX-5	05-10	19.70	8.53	39.22	30.69
Mazda	3 / Axela	09-10	17.58	9.11	31.24	22.13
Mercedes Benz	A-Class W168	98-04	24.98	14.44	39.65	25.21
Holden / Nissan	Astra / Pulsar / Langley	84-86	26.10	24.36	27.91	3.55
Holden / Nissan	Astra / Pulsar / Vector / Sentra	88-90	25.16	23.59	26.80	3.20
Nissan	Pulsar / Vector / Sentra	92-95	21.08	19.23	23.06	3.83
Nissan	Pulsar / Vector / Sentra	96-99	22.38	20.69	24.17	3.47
Nissan	Stanza	82-83	20.73	13.83	29.88	16.05
Nissan	Gazelle / Silvia	84-86	28.15	24.36	32.29	7.93
Nissan	Exa	83-86	28.02	20.92	36.43	15.51
Nissan	Exa	87-91	29.08	19.00	41.75	22.75
Nissan	NX/NX-R	91-96	30.84	24.74	37.69	12.94
Nissan	Pulsar	00-05	20.95	19.00	23.03	4.03
Nissan	Tiida	06-10	21.76	14.63	31.09	16.46
Honda	Civic	82-83	25.58	21.69	29.89	8.20
Honda	Civic / Ballade / Shuttle	84-87	27.65	25.06	30.39	5.33
Honda	Civic / Shuttle	88-91	23.42	21.32	25.66	4.34
Honda	Civic	92-95	21.33	19.11	23.73	4.62
Honda	Civic	96-00	20.99	18.57	23.63	5.06
Honda	CRX	87-91	29.68	24.72	35.18	10.46
Honda	CRX	92-98	24.16	15.85	35.01	19.17
Honda	S2000	99-09	10.21	3.20	28.11	24.91
Honda	Civic	01-05	20.62	16.61	25.30	8.69
Honda	Civic	06-10	14.59	10.49	19.94	9.45
Honda	Integra	86-88	25.53	21.21	30.39	9.18
Honda	Integra	90-92	22.39	18.05	27.43	9.38
Honda	Integra	93-01	22.18	18.07	26.93	8.86
Honda	Integra	02-06	19.06	10.29	32.58	22.29
Honda	Concerto	89-93	23.69	18.71	29.51	10.80
Peugeot	306	94-01	16.07	12.23	20.83	8.61
Peugeot	307	01-09	11.96	7.14	19.35	12.21
Proton	Wira	95-96	24.46	19.89	29.69	9.79

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Proton	Gen 2	04-10	27.23	15.47	43.33	27.86
Renault	Megane II	03-10	20.32	6.92	46.65	39.74
Renault	19	91-96	16.81	8.66	30.10	21.44
Renault	Scenic	01-04	17.79	8.21	34.34	26.13
Rover	Quintet	82-86	23.50	15.37	34.18	18.81
MG	MGF / MG TF	99-05	23.23	12.47	39.11	26.64
Subaru	Impreza	93-00	24.81	22.45	27.33	4.88
Subaru	Impreza	01-07	20.02	16.71	23.79	7.08
Subaru	Impreza	07-10	17.21	8.73	31.12	22.39
Suzuki	Baleno / Cultus Crescent	95-02	21.87	17.71	26.69	8.97
Suzuki	Liana	01-07	19.39	13.35	27.31	13.96
Toyota	Corolla	82-84	24.38	22.72	26.12	3.40
Toyota	Corolla	86-88	24.50	23.10	25.97	2.87
Toyota / Holden	Corolla / Nova	89-93	23.41	22.30	24.57	2.27
Toyota / Holden	Corolla / Nova	94-97	22.60	21.25	24.02	2.77
Toyota	Corolla / Allex	98-01	17.84	15.93	19.92	3.99
Toyota	Corolla	02-07	19.89	18.30	21.58	3.28
Toyota	Corolla	07-10	18.50	15.06	22.52	7.47
Toyota	Tercel	83-88	22.92	16.90	30.31	13.41
Toyota	MR2	87-90	29.56	22.45	37.82	15.37
Toyota	MR2	91-00	21.23	14.48	30.01	15.52
Toyota	Paseo / Cynos	91-99	22.10	17.98	26.85	8.87
Toyota	Corolla 4WD Wagon	92-96	23.76	14.99	35.52	20.53
Toyota	Prius II	03-09	15.03	7.89	26.74	18.85
Volvo	300 Series	84-88	34.01	20.96	50.05	29.09
Volvo	S40/V50	04-10	6.38	0.89	34.15	33.26
Volvo	S40/V40	97-04	14.71	9.50	22.08	12.58
Volkswagen	Golf	82-94	28.38	18.66	40.64	21.98
Volkswagen	Golf	95-98	18.76	13.29	25.80	12.51
Volkswagen	Golf / Bora	99-04	12.63	9.63	16.40	6.77
Volkswagen	New Beetle	00-10	16.48	9.75	26.49	16.73
Volkswagen	Golf / Jetta	04-10	10.91	7.54	15.53	7.99
Light Cars			**22.06**	**21.58**	**22.56**	**0.98**
Citroen	C3	02-10	16.66	6.08	38.14	32.06
Daihatsu	Charade	82-86	29.82	26.45	33.42	6.96
Daihatsu	Charade	88-92	25.57	23.33	27.95	4.62
Daihatsu	Charade	93-00	27.49	24.83	30.32	5.48
Daihatsu	Pyzar	97-01	25.44	16.44	37.17	20.73
Daihatsu	Sirion / Storia	98-04	21.34	17.47	25.81	8.34
Daihatsu	Charade	03-05	6.92	1.70	24.24	22.55
Daihatsu	Mira	90-96	28.85	24.02	34.20	10.19
Daewoo	Matiz	99-04	18.15	14.44	22.57	8.12
Daewoo	Kalos	03-04	27.08	19.45	36.35	16.91
Ford	Festiva WD/WH/WF	94-01	25.16	23.68	26.70	3.02
Ford	Ka	99-02	24.54	18.18	32.25	14.07
Ford	Fiesta WP/WQ	04-08	5.01	0.70	28.13	27.43
Holden	Barina XC	01-06	18.00	15.25	21.12	5.88
Holden	Barina SB	95-00	20.04	18.07	22.17	4.10
Holden	Barina TK	05-10	21.26	17.56	25.50	7.94
Hyundai	Getz / TB	02-10	24.28	21.29	27.54	6.25
Mitsubishi	Mirage / Colt	82-88	24.97	23.42	26.59	3.17

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Mitsubishi	Colt	04-10	21.38	14.65	30.12	15.47
Ford / Mazda	Festiva WA / 121	87-90	25.71	23.66	27.87	4.21
Mazda	121 / Autozam Review	94-96	23.17	20.43	26.14	5.71
Mazda	121 Metro / Demio	97-02	22.13	19.12	25.47	6.36
Mazda	2	02-07	25.01	19.93	30.90	10.97
Mazda	2	07-10	14.92	10.04	21.60	11.56
Nissan	Micra	95-97	27.44	21.93	33.73	11.80
Honda	Jazz / Fit	02-08	20.01	16.35	24.25	7.91
Honda	Jazz GE	08-10	24.87	12.54	43.30	30.76
Honda	City	83-86	24.45	21.06	28.18	7.12
Peugeot	205	87-94	23.15	14.91	34.11	19.20
Peugeot	206	99-07	24.66	17.86	33.00	15.14
Proton	Satria	97-05	18.33	7.73	37.54	29.80
Renault	Clio	01-08	19.99	10.77	34.11	23.34
Subaru	Sherpa / Fiori / 700 / Rex	89-92	26.91	22.26	32.13	9.87
Suzuki	Swift	82-85	29.79	19.98	41.90	21.91
Holden / Suzuki	Barina / Swift / Cultus	86-88	27.24	24.78	29.84	5.06
Holden / Suzuki	Barina / Swift / Cultus	89-99	24.71	23.29	26.19	2.90
Suzuki	Hatch / Alto	82-84	27.82	23.11	33.08	9.97
Suzuki	Alto	85-00	29.86	23.74	36.80	13.06
Suzuki	Ignis	00-02	22.87	17.17	29.79	12.62
Suzuki	Swift	05-10	20.39	17.17	24.03	6.86
Toyota	Starlet	96-99	25.12	22.56	27.87	5.31
Toyota	Echo	99-05	22.98	20.89	25.20	4.31
Toyota	Yaris	05-10	18.34	15.53	21.53	6.00
Volkswagen	Polo	96-00	15.66	10.33	23.03	12.70
Volkswagen	Polo	02-10	18.21	11.19	28.22	17.03

APPENDIX 4

CRASHWORTHINESS RATINGS OF 1982-2010 MODELS OF CARS INVOLVED IN CRASHES DURING 1987-2010 with (1) 95 % CONFIDENCE LIMITS (2) 90 % CONFIDENCE LIMITS

CRASHWORTHINESS RATINGS
(WITH 95% CONFIDENCE LIMITS)

New South Wales and Victoria Data (1987-2010), South Australia Data (1995-2010), Queensland Data (1991-2009), Western Australia and New Zealand Data (1991-2010)

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
ALL VEHICLE AVERAGE			**3.64**			
Compact Sports Utility Vehicles			**3.53**	**3.37**	**3.69**	**0.31**
Daihatsu	Feroza / Rocky	89-97	5.29	4.08	6.86	11.60
Daihatsu	Rocky / Rugger	85-98	6.91	5.18	9.22	14.57
Daihatsu	Terios	97-05	4.83	3.69	6.32	9.75
Holden	Cruze	02-06	4.79	3.68	6.24	10.81
Hyundai	Tucson	04-10	4.04	2.32	7.03	28.41
Mitsubishi	Outlander	03-06	3.06	1.84	5.09	18.69
Mitsubishi / Peugeot	Outlander / 4007	06-10	1.55	0.65	3.71	22.08
Kia	Sportage	98-03	3.23	2.32	4.50	10.87
Kia	Sorento	03-09	3.15	1.87	5.30	23.06
Kia	Sportage KM	05-10	5.29	2.70	10.35	33.63
Ford / Mazda	Escape / Tribute	01-06	2.96	2.33	3.77	9.18
Mazda	CX-7	06-10	1.19	0.44	3.22	19.55
Nissan	X-Trail	01-07	2.89	2.38	3.49	6.41
Lada	Niva	84-99	4.38	2.78	6.90	17.56
Honda	CR-V	97-01	2.78	2.27	3.42	7.41
Honda	CR-V	02-06	2.34	1.82	3.02	7.37
Honda	HR-V	99-02	4.21	2.79	6.36	19.05
Honda	CR-V	07-10	2.66	1.64	4.31	19.93
Land Rover	Freelander	98-06	4.46	2.72	7.31	25.72
Subaru	Forester	08-10	3.32	1.61	6.86	28.87
Subaru	Forester	97-02	2.84	2.30	3.51	7.19
Subaru	Forester	02-08	2.32	1.82	2.95	7.80
Suzuki	Vitara / Escudo	88-98	5.38	4.71	6.13	5.81
Suzuki	Grand Vitara	99-05	3.12	2.31	4.22	10.41
Holden / Suzuki	Drover / Sierra / Samurai / SJ410 / SJ413	82-99	6.32	5.59	7.13	5.06
Suzuki	Jimny	98-10	4.48	3.11	6.47	13.15
Suzuki	Grand Vitara	05-08	2.76	1.63	4.67	17.32
Suzuki	SX4	07-10	1.51	0.54	4.18	24.03
Toyota	RAV4	94-00	3.78	3.23	4.43	6.19
Toyota	RAV4	01-06	2.95	2.46	3.55	6.65
Toyota	RAV4	06-10	2.67	1.98	3.61	11.42
Medium Sports Utility Vehicles			**2.72**	**2.57**	**2.89**	**0.32**
Daewoo / Ssangong	Musso	98-02	4.08	2.47	6.74	25.29

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Ford	Territory SX/SY	04-10	1.88	1.38	2.57	9.16
Holden / Isuzu	Jackaroo / Bighorn	82-91	3.81	2.87	5.06	9.00
Holden / Isuzu	Jackaroo / Bighorn	92-97	2.92	2.12	4.01	10.52
Holden / Isuzu	Jackaroo / Bighorn	98-02	3.51	2.60	4.74	11.95
Holden	Frontera / Mu	95-03	3.37	2.19	5.18	15.84
Holden	Adventra	03-06	1.61	0.72	3.64	18.63
Holden	Captiva CG	06-10	1.70	0.94	3.07	13.45
Hyundai	Santa Fe	00-06	3.76	2.40	5.89	20.21
Hyundai	Terracan	01-07	2.07	0.91	4.70	24.42
Mitsubishi	Pajero	82-90	5.07	4.27	6.04	7.73
Mitsubishi	Pajero	92-99	3.23	2.73	3.83	6.91
Mitsubishi	Pajero NM / NP / NS	00-06	2.19	1.57	3.05	12.30
Mitsubishi	Pajero NM / NP / NS	07-10	1.41	0.45	4.43	36.26
Mitsubishi	Challenger	98-06	3.73	2.57	5.43	17.53
Jeep	Cherokee XJ	96-00	3.42	2.69	4.36	9.61
Jeep	Wrangler	96-04	3.70	2.39	5.73	17.51
Jeep	Cherokee KJ	01-07	2.13	1.24	3.67	17.30
Jeep	Wrangler	05-10	1.03	0.31	3.46	22.47
Land Rover	Defender	92-10	4.23	2.78	6.43	20.61
Nissan	Pathfinder / Terrano	88-94	3.02	2.26	4.05	9.53
Nissan	Pathfinder / Terrano / Regulus	95-05	2.12	1.55	2.91	9.29
Nissan	Murano	05-08	1.01	0.25	4.00	27.25
Nissan	Pathfinder	05-10	0.82	0.32	2.06	14.78
Toyota	Kluger / Highlander	03-07	2.94	2.05	4.21	14.01
Toyota	Landcruiser Prado	96-03	2.63	2.05	3.39	9.99
Toyota	Landcruiser Prado	03-09	1.74	1.36	2.22	7.60
Lexus	RX330	03-05	2.86	1.48	5.55	33.78
Toyota	Kluger / Highlander	07-10	1.68	0.80	3.49	19.10
Volvo	XC 90	03-10	1.50	0.55	4.13	33.87
Large Sports Utility Vehicles			**2.77**	**2.65**	**2.89**	**0.24**
BMW	X5	01-08	1.14	0.54	2.41	18.12
Ford	Bronco	82-87	6.68	3.71	12.03	35.83
Ford	Explorer	00-01	4.37	3.05	6.25	14.66
Ford	Explorer	01-05	2.05	1.18	3.57	16.73
Jeep	Grand Cherokee ZG	96-99	2.26	1.22	4.20	19.37
Jeep	Grand Cherokee WG	99-05	1.91	1.06	3.44	17.90
Land Rover	Discovery	91-02	2.51	1.87	3.37	10.15
Mercedes Benz	M-Class W163	98-05	2.17	1.21	3.92	23.75
Nissan	Patrol / Safari	82-87	3.94	3.07	5.06	10.76
Nissan / Ford	Patrol / Maverick / Safari	88-97	2.81	2.50	3.17	4.72
Nissan	Patrol / Safari	98-10	2.23	1.91	2.60	5.79
Land Rover	Range Rover	82-94	3.14	2.30	4.29	11.08
Land Rover	Range Rover	95-02	1.49	0.67	3.34	16.58
Toyota	Landcruiser	82-89	4.57	4.14	5.04	4.68
Toyota	Landcruiser	90-97	3.16	2.89	3.46	3.73
Toyota	Landcruiser	98-07	2.63	2.35	2.96	4.28

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Commercial - Vans			**3.88**	**3.69**	**4.07**	**0.39**
Daihatsu	Handivan	82-90	9.57	7.59	12.07	11.21
Daihatsu	Hi-Jet	82-90	13.12	8.89	19.36	20.40
Daihatsu	Handivan / Cuore	99-03	6.91	4.22	11.33	21.29
Ford	Falcon Panel Van	82-95	3.83	3.17	4.62	7.25
Ford	Falcon Panel Van	96-99	2.83	1.68	4.75	17.99
Ford	Transit	95-00	3.19	2.27	4.49	12.97
Ford	Transit	01-07	1.38	0.87	2.19	10.67
Holden	Shuttle / WFR Van	82-87	6.89	4.79	9.90	18.22
Kia	Pregio	02-06	3.59	2.43	5.28	13.85
Mercedes Benz	MB100 / MB140	99-04	2.56	1.31	5.03	25.93
Mercedes Benz	Vito	99-04	2.21	1.22	3.98	21.74
Mercedes Benz	Sprinter	98-06	2.47	1.54	3.97	14.33
Honda	Acty	83-86	4.30	2.59	7.15	21.48
Holden / Suzuki	Scurry / Carry	82-00	10.56	8.09	13.79	13.84
Suzuki	Carry	99-05	4.27	1.92	9.49	32.83
Toyota	Hiace/Liteace	82-86	6.33	5.62	7.14	5.53
Toyota	Hiace/Liteace	87-89	5.49	4.69	6.43	6.56
Toyota	Hiace/Liteace	90-95	4.97	4.40	5.63	5.61
Toyota	Hiace/Liteace	96-04	3.32	2.89	3.82	5.37
Toyota	Hiace	05-10	3.93	2.80	5.52	15.55
Volkswagen	Caravelle / Transporter	88-94	3.27	1.58	6.76	28.91
Volkswagen	Caravelle / Transporter	95-04	1.98	1.19	3.30	11.93
Volkswagen	Caddy	05-10	3.05	1.36	6.82	24.10
Commercial - Utes			**3.37**	**3.28**	**3.47**	**0.18**
Ford / Nissan	Falcon Ute / XFN Ute	82-95	4.26	3.86	4.69	4.27
Ford	Falcon Ute	96-99	3.46	2.85	4.21	7.34
Ford	Falcon Ute AU	00-02	2.57	2.12	3.12	6.55
Ford	Falcon Ute BA/BF	03-08	2.36	1.93	2.88	6.84
Ford	Ford F-Series	82-92	2.89	1.97	4.24	13.40
Ford	F-Series	01-06	2.29	1.23	4.27	29.11
Holden	Commodore Ute VG/VP	90-93	4.67	3.82	5.71	9.40
Holden / Isuzu	Rodeo / Pickup	82-85	5.16	3.73	7.12	13.97
Holden / Isuzu	Rodeo / Pickup	86-88	2.87	1.58	5.21	15.33
Holden / Isuzu	Rodeo / Pickup	89-95	4.66	4.18	5.20	4.89
Holden	Rodeo	96-98	3.46	2.92	4.11	6.36
Holden	Rodeo	99-02	3.69	3.16	4.31	6.30
Holden	WB Series	82-85	5.67	4.63	6.93	11.10
Holden	Commodore Ute VR/VS	94-00	4.13	3.74	4.56	4.40
Holden	Commodore VU Ute	00-02	3.13	2.58	3.80	7.86
Holden	Commodore VY/VZ Ute	02-07	2.71	2.35	3.11	4.98
Holden	Rodeo	03-08	2.68	2.28	3.14	5.37
Holden	Commodore VE Ute	07-10	2.19	1.23	3.90	17.95
Holden	Colorado RC	08-10	1.57	0.66	3.70	18.31
Mitsubishi	Triton MK	96-06	2.56	1.86	3.51	10.81
Mitsubishi	Triton ML / MN	06-10	2.09	1.34	3.25	12.32

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Kia	Ceres	92-00	6.06	4.86	7.55	11.05
Kia	K2700	02-08	4.95	2.59	9.46	35.99
Ford / Mazda	Courier / B-Series / Bounty	98-02	3.10	2.53	3.79	7.56
Ford / Mazda	Courier / Bravo / Bounty	03-06	3.06	2.43	3.85	7.72
Ford / Mazda	Ranger / BT-50	06-10	2.19	1.64	2.93	7.95
Nissan	720 Ute	82-85	4.86	3.90	6.06	9.20
Nissan	Navara	86-91	4.44	3.85	5.12	6.07
Nissan	Navara	92-96	3.94	3.22	4.82	8.29
Nissan	Navara	97-05	2.53	2.11	3.04	7.05
Nissan	Navara	05-10	2.27	1.60	3.23	12.34
Proton	Jumbuck	03-10	3.55	1.64	7.68	30.67
Subaru	Brumby	82-92	7.09	6.03	8.33	8.56
Suzuki	Mighty Boy	85-88	10.51	7.95	13.89	13.89
Toyota	4Runner/Hilux	82-85	5.16	4.60	5.78	5.04
Toyota	4Runner/Hilux	86-88	4.77	4.23	5.37	5.09
Toyota	4Runner/Hilux	89-97	4.24	3.98	4.52	2.71
Toyota	Hilux	98-02	2.95	2.61	3.32	4.26
Toyota	Hilux	03-04	2.72	2.20	3.35	7.30
Toyota	Hilux	05-10	2.14	1.81	2.54	5.32
Large Cars			**3.49**	**3.43**	**3.55**	**0.12**
BMW	7 Series E23	82-86	2.76	1.24	6.14	32.50
BMW	7 Series E32	87-94	4.69	2.93	7.52	22.00
BMW	7 Series E38	95-01	1.56	0.62	3.92	25.39
Ford	Falcon XE/XF	82-88	4.74	4.53	4.95	1.97
Ford	Fairlane Z & LTD F	82-87	4.55	4.04	5.13	5.20
Ford	Falcon EA / Falcon EB Series I	88-Mar 92	4.28	4.07	4.50	2.08
Ford	Falcon EB Series II / Falcon ED	Apr 92-94	3.91	3.65	4.19	2.90
Ford	Fairlane N & LTD D	88-94	3.45	3.00	3.95	5.52
Ford	Fairlane N & LTD D	95-98	3.56	2.88	4.40	8.47
Ford	Fairlane & LTD AU	99-02	3.00	2.14	4.20	12.05
Ford	Fairlane & LTD BA/BF	03-07	2.79	1.66	4.69	21.31
Ford	Falcon FG	08-10	1.38	0.84	2.27	11.98
Ford	Falcon EF/EL	94-98	3.59	3.41	3.77	1.94
Ford	Falcon AU	98-02	3.27	3.06	3.49	2.47
Ford	Taurus	96-98	4.09	2.79	5.99	15.32
Ford	Falcon BA/BF	02-08	2.62	2.41	2.85	2.81
Holden / Toyota	Commodore VN/VP / Lexcen	89-93	4.75	4.56	4.94	1.83
Holden	Statesman/Caprice WB	82-85	7.42	4.43	12.42	29.05
Holden	Stateman/Caprice VQ	90-93	4.82	3.49	6.64	15.63
Holden	Stateman/Caprice VR/VS	94-98	3.60	3.11	4.17	5.80
Holden / Toyota	Commodore VR/VS / Lexcen	93-97	4.00	3.82	4.18	1.84
Holden	Commodore VT/VX	97-02	3.38	3.21	3.56	1.88
Holden	Statesman/Caprice WH	99-03	2.78	2.08	3.73	9.66
Holden	Commodore VY/VZ	02-07	2.73	2.50	2.98	2.82
Holden	Monaro	01-05	3.21	2.31	4.45	12.39
Holden	Statesman/Caprice WK/WL	03-06	3.04	1.98	4.67	16.78
Holden	Commodore VB-VL	82-88	5.29	5.06	5.52	2.01
Holden	Commodore VE	06-10	2.57	2.21	2.99	4.93

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Hyundai	Sonata	89-97	3.98	3.39	4.68	6.07
Hyundai	Grandeaur / XG	99-00	1.57	0.60	4.16	20.83
Mitsubishi	Magna TM/TN/TP / Sigma / V3000	85-90	5.00	4.71	5.30	2.58
Mitsubishi	Magna TE/TF/TH/TJ / Verada KE/KF/KH/KJ / Diamante	96-03	3.72	3.45	4.02	3.14
Mitsubishi	Magna TR/TS / Verada KR/KS / V3000 / Diamante	91-96	3.94	3.70	4.21	2.58
Mitsubishi	Magna TL/TW / Verada KL/KW	03-05	2.79	2.12	3.69	9.12
Mitsubishi	380	05-08	2.02	1.23	3.34	13.44
Jaguar	XJ6	82-86	5.87	3.58	9.60	25.84
Jaguar	XJ6	87-94	2.07	1.13	3.79	16.94
Jaguar	S-Type	99-08	1.52	0.61	3.78	27.56
Kia	Optima	01-06	3.41	1.28	9.10	30.18
Mazda	929 / Luce	82-90	5.10	4.40	5.91	6.29
Mazda	929 / Sentia / Efini MS-9	92-96	4.34	2.46	7.66	23.83
Mercedes Benz	E-Class W123	82-85	3.42	1.92	6.06	23.16
Mercedes Benz	E-Class W124	86-94	3.17	2.31	4.35	11.01
Mercedes Benz	E-Class W210	96-02	2.37	1.50	3.75	14.65
Mercedes Benz	S-Class W126	82-92	3.26	2.24	4.76	14.87
Mercedes Benz	E-Class W211	02-09	1.99	0.83	4.79	26.88
Nissan	Skyline	83-88	4.87	4.39	5.40	4.40
Nissan	300ZX / Fairlady Z	90-95	4.58	3.24	6.48	13.58
Nissan	Maxima	90-94	4.14	3.26	5.26	8.83
Nissan	Maxima / Cefiro	95-99	3.84	3.08	4.79	8.25
Nissan	Maxima	00-02	3.71	2.61	5.27	12.79
Nissan	Maxima	06-09	2.59	1.62	4.14	14.90
Honda	Legend	86-95	3.30	2.40	4.55	12.66
Rover	3500	82-87	2.40	0.90	6.40	22.31
Saab	9-5	98-05	2.39	1.09	5.26	22.00
Toyota	Camry	98-02	3.35	3.09	3.65	3.13
Toyota	Crown / Cressida / Mark II	82-85	5.03	4.20	6.04	7.84
Toyota	Crown / Cressida / Mark II	86-88	4.78	3.55	6.44	15.80
Toyota	Cressida / Mark II	89-93	3.24	2.59	4.04	8.38
Toyota	Supra	82-90	6.21	4.52	8.54	16.45
Lexus	ES300 / Windom	92-01	3.79	2.70	5.33	13.43
Lexus	LS400 / Celsior	90-00	1.66	0.67	4.13	20.49
Toyota	Avalon	00-05	2.99	2.49	3.60	6.64
Toyota	Camry	02-06	2.74	2.41	3.10	3.96
Toyota	Aurion	06-10	2.27	1.56	3.29	11.83
Toyota	Camry	06-10	2.66	2.08	3.42	8.38
Volvo	850/S70/V70/C70	92-99	3.28	2.55	4.23	9.58
Volvo	700/900 Series	84-92	2.87	2.20	3.74	8.55
Volvo	960/S90/V90	90-98	3.01	1.22	7.41	30.25
Medium Cars			**3.73**	**3.65**	**3.80**	**0.15**
Alfa Romeo	156	99-06	2.96	1.65	5.32	20.11
Alfa Romeo	147 / GT	01-10	3.16	1.46	6.85	29.88
Audi	A4	95-01	3.53	2.51	4.95	14.42
Audi	A4	01-08	1.62	0.88	2.99	14.77

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
BMW	Z3 E36	97-03	3.03	1.59	5.77	25.48
BMW	5 Series E60 / E61	03-10	2.04	0.83	5.02	27.51
BMW	3 Series E90 /E91 /E92 /E93	05-10	1.51	0.76	3.03	12.19
BMW	3 Series E30	82-91	4.09	3.50	4.77	6.20
BMW	3 Series E36	92-98	3.41	2.96	3.93	4.97
BMW	3 Series E46	99-06	3.18	2.61	3.87	6.97
BMW	5 Series E28	82-88	3.58	2.50	5.13	15.22
BMW	5 Series E34	89-95	3.28	2.35	4.58	12.18
BMW	5 Series E39	96-03	2.25	1.52	3.31	13.35
Chrysler	PT Cruiser	00-10	2.50	0.98	6.40	26.98
Daewoo	Espero	95-97	6.19	4.77	8.03	12.10
Daewoo	Leganza	97-02	3.82	2.75	5.29	12.32
Daewoo	Tacuma	00-04	7.42	3.93	14.00	37.33
Ford	Mondeo	95-01	3.02	2.51	3.65	6.23
Ford	Mondeo	07-10	2.31	0.73	7.29	33.98
Ford	Probe	94-98	4.89	2.94	8.13	20.40
Ford	Cougar	99-03	2.83	1.96	4.08	10.92
Holden	Calibra	94-97	3.93	2.60	5.96	15.82
Holden	Camira	82-89	5.98	5.59	6.40	2.91
Holden	Vectra	97-03	3.18	2.70	3.74	5.45
Holden	Vectra ZC	03-05	2.60	1.63	4.15	13.93
Hyundai	Sonata	98-01	4.21	3.06	5.79	14.07
Hyundai	Sonata EF	02-05	2.98	1.29	6.89	25.28
Hyundai	Tiburon	02-10	2.90	0.95	8.81	31.01
Hyundai	Sonata NF	05-10	1.32	0.31	5.50	22.19
Mitsubishi	Sigma / Galant / Sapporo / Lambda	82-84	5.28	4.88	5.71	3.33
Mitsubishi	Starion	82-87	9.51	6.23	14.52	24.89
Mitsubishi	Galant	95-96	4.56	3.77	5.52	7.35
Jaguar	X-Type	02-10	1.27	0.41	3.99	26.37
Kia	Credos	98-01	5.87	2.55	13.53	36.48
Ford / Mazda	Telstar / 626 / MX6 / Capella	83-86	4.88	4.50	5.30	3.23
Ford / Mazda	Telstar / 626 / MX6 / Capella	88-91	4.33	3.93	4.77	3.80
Ford / Mazda	Telstar / 626 / MX6 / Capella / Cronos	92-97	3.94	3.54	4.38	4.38
Mazda	626	98-02	3.23	2.64	3.96	7.15
Mazda	RX7	82-85	5.74	4.17	7.91	13.94
Mazda	RX7	86-91	4.52	3.04	6.70	15.98
Mazda	Eunos 500	93-99	3.87	2.27	6.60	16.97
Mazda	Eunos 800	94-00	2.92	1.16	7.35	33.44
Mazda	6	02-07	2.34	1.86	2.94	6.27
Mazda	RX-8	03-10	1.06	0.33	3.36	21.08
Mazda	6	08-10	1.54	0.62	3.80	19.72
Mercedes Benz	C-Class W201	87-93	4.16	3.03	5.72	13.47
Mercedes Benz	C-Class W202	95-00	2.96	2.19	4.01	10.92
Mercedes Benz	CLK C208	97-03	3.29	1.59	6.83	27.43
Mercedes Benz	SLK R170	97-04	2.35	0.78	7.05	32.15
Mercedes Benz	C-Class W203	00-07	2.64	1.74	4.01	14.56
Mercedes Benz	CLK C209	03-09	1.65	0.62	4.40	26.89
Mercedes Benz	C-Class W204	07-10	1.13	0.34	3.76	26.60
Nissan	Pintara	86-88	4.91	4.35	5.53	5.33

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Nissan / Ford	Pintara / Corsair / Bluebird	89-92	5.27	4.85	5.73	3.66
Nissan	Bluebird	82-86	5.93	5.51	6.39	3.42
Nissan	280ZX	82-84	5.62	2.72	11.60	35.10
Nissan	Bluebird	93-97	3.66	3.09	4.33	6.13
Nissan	200SX / Silvia	94-02	3.58	2.76	4.65	10.88
Nissan	350Z	03-09	5.03	2.93	8.65	24.81
Honda	Accord Euro	03-08	2.66	2.00	3.54	9.29
Honda	Accord	03-07	2.24	1.53	3.26	10.26
Honda	Accord	82-85	5.79	5.05	6.64	5.50
Honda	Accord	86-90	4.14	3.56	4.81	5.51
Honda	Accord	91-93	3.64	2.96	4.48	8.54
Honda	Accord	94-98	3.57	3.06	4.16	6.20
Honda	Accord	99-02	2.41	1.65	3.53	10.85
Honda	Accord	08-10	3.53	1.83	6.82	34.49
Honda	Prelude	82-82	3.84	1.78	8.31	27.84
Honda	Prelude	83-91	4.90	4.35	5.52	4.84
Honda	Prelude	92-96	4.39	3.57	5.39	8.81
Honda	Prelude	97-02	2.65	1.77	3.97	11.54
Peugeot	405	89-97	3.77	2.69	5.28	13.01
Peugeot	505	82-93	2.90	1.96	4.30	14.63
Peugeot	406	96-04	2.37	1.29	4.37	22.75
Porsche	944	82-91	5.24	2.26	12.15	41.77
Renault	Feugo	82-87	4.23	2.52	7.08	19.98
Rover	75	01-05	2.93	1.14	7.52	33.42
Saab	900 Series	82-92	4.13	3.09	5.52	11.97
Saab	900/9-3	94-02	2.37	1.67	3.35	10.55
Saab	9000	86-97	2.33	1.56	3.49	10.77
Saab	9-3	03-10	2.96	1.52	5.76	23.72
Subaru	1800 / Leone / Omega / 4WD Wagon	82-93	5.27	4.77	5.81	4.22
Subaru	Liberty / Legacy	89-93	4.13	3.70	4.60	4.19
Subaru	Liberty / Legacy / Outback	94-98	3.44	2.97	3.99	5.38
Subaru	Liberty / Legacy / Outback	99-03	2.53	2.09	3.07	6.36
Subaru	Liberty / Legacy / Outback	03-09	2.36	1.81	3.09	9.62
Toyota	Corona	82-88	5.38	5.02	5.76	2.99
Toyota	Camry	83-86	5.31	4.58	6.17	6.78
Holden / Toyota	Apollo JK/JL / Camry / Vista	88-92	4.32	4.09	4.57	2.36
Holden / Toyota	Apollo JM/JP / Camry / Sceptor	93-97	4.54	4.27	4.83	2.63
Toyota	Celica	81-85	4.70	3.94	5.62	6.86
Toyota	Celica	86-89	4.68	3.86	5.68	8.50
Toyota	Celica	90-93	4.92	4.15	5.84	7.68
Toyota	Celica	94-99	3.96	3.10	5.04	8.76
Toyota	Celica	00-05	3.62	2.32	5.67	18.87
Lexus	IS200 / IS300	99-04	1.70	0.86	3.38	16.21
Lexus	IS350 / IS250 / IS F	05-10	2.52	1.10	5.77	33.89
Volvo	200 Series	82-93	3.63	2.98	4.42	8.53
Volvo	S60	01-09	1.80	0.68	4.78	34.97
Volkswagen	Passat	98-06	2.20	1.31	3.68	16.26
Volkswagen	Passat	06-10	1.47	0.56	3.86	24.53

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
People Movers			**3.98**	**3.79**	**4.19**	**0.41**
Chrysler	Voyager	97-01	2.05	1.04	4.01	19.99
Holden	Zafira TT	01-05	3.09	1.75	5.46	21.43
Mitsubishi	Nimbus / Chariot / Spacewagon	85-91	5.00	3.64	6.85	11.58
Mitsubishi	Nimbus / Chariot	92-98	4.48	3.38	5.93	11.18
Mitsubishi	Nimbus	99-03	1.98	0.90	4.34	23.62
Mitsubishi	Starwagon / L300	83-86	8.09	7.08	9.23	6.92
Mitsubishi	Starwagon / Delica Starwagon	87-93	5.63	5.01	6.32	5.17
Mitsubishi	Starwagon / Delica Spacegear	95-98	4.22	3.29	5.42	9.79
Mitsubishi	Starwagon / Delica Spacegear	98-03	4.68	3.68	5.94	11.85
Kia	Carnival	99-06	2.63	1.90	3.64	11.98
Kia	Carnival	06-10	1.18	0.48	2.89	19.73
Mazda	MPV	94-99	1.96	0.83	4.65	24.93
Mazda	MPV	00-06	2.36	0.96	5.84	39.40
Nissan	Prairie	84-86	5.16	3.60	7.39	13.20
Nissan	Serena	92-95	2.48	1.44	4.29	13.21
Honda	Odyssey	95-00	2.54	1.79	3.61	10.66
Honda	Odyssey	00-02	2.51	1.16	5.45	30.73
Honda	Odyssey	04-09	0.99	0.37	2.60	15.18
Toyota	Tarago	83-89	6.45	5.73	7.27	5.76
Toyota	Tarago / Previa / Estima	91-99	3.35	2.77	4.05	7.83
Toyota	Tarago / Previa / Estima	00-06	2.37	1.65	3.40	12.75
Toyota	Spacia	93-00	3.55	1.74	7.23	26.74
Toyota	Avensis Verso	01-10	5.51	3.04	10.00	37.35
Toyota	Tarago	06-10	1.97	0.82	4.72	24.18
Small Cars			**4.29**	**4.21**	**4.36**	**0.15**
Alfa Romeo	33	83-92	5.09	3.58	7.24	15.30
Alfa Romeo	75	86-92	3.41	1.34	8.68	32.91
Alfa Romeo	GTV	82-84	7.92	4.31	14.54	40.65
Alfa Romeo	Sprint	82-88	5.19	2.37	11.36	30.29
Alfa Romeo	Alfasud	82-84	7.09	3.33	15.09	38.94
Audi	A3	04-09	2.25	0.83	6.14	33.08
Audi	A3/S3	97-04	2.23	1.17	4.25	16.61
Mini	Mini Cooper	02-10	2.92	1.77	4.79	15.35
BMW	1 Series E81 / E82 / E87 / E88	04-10	1.73	0.72	4.16	19.29
Chrysler	Neon	96-99	4.28	2.81	6.52	18.41
Chrysler	Neon	00-02	5.30	2.61	10.78	36.18
Citroen	C4	05-10	3.89	1.55	9.73	41.60
Citroen	Xsara	00-05	2.41	0.63	9.24	30.11
Daihatsu	Applause	89-99	5.12	4.35	6.02	6.77
Daewoo	1.5i	94-95	6.78	3.63	12.65	27.98
Daewoo	Cielo	95-97	5.02	4.39	5.74	5.23
Daewoo	Nubira	97-03	4.03	3.43	4.75	6.35
Daewoo	Lanos	97-03	5.29	4.72	5.93	5.05
Daewoo	Lacetti	03-04	4.19	2.13	8.25	28.29
Ford	Laser	91-94	5.04	4.70	5.40	2.91

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Ford	Laser	95-97	4.90	4.34	5.52	5.25
Ford	Capri	89-94	6.18	5.07	7.54	8.53
Ford	Focus LR	02-05	2.92	2.30	3.71	7.17
Ford	Focus LS / LT	05-09	2.84	2.22	3.62	8.30
Fiat	Regata	84-88	5.18	2.70	9.93	33.09
Holden	Gemini	82-84	6.08	5.49	6.73	4.44
Holden	Gemini RB	86-87	6.31	5.03	7.92	9.35
Holden	Astra TR	96-98	3.83	2.98	4.93	9.46
Holden	Astra TS	98-06	3.13	2.82	3.46	3.38
Holden	Astra AH	04-09	2.79	2.21	3.51	7.43
Holden	Viva JF	05-09	3.14	2.30	4.30	10.23
Holden	Cruze JG	09-10	2.92	1.31	6.53	23.42
Hyundai	Excel	86-90	7.05	6.23	7.98	5.86
Hyundai	Excel	90-94	6.37	5.87	6.92	3.84
Hyundai	Excel / Accent	95-00	5.57	5.26	5.89	2.46
Hyundai	Elantra	00-06	4.15	3.43	5.01	7.76
Hyundai	Accent	06-10	1.98	0.85	4.65	18.67
Hyundai	i30	07-10	3.41	2.09	5.56	18.65
Hyundai	S Coupe	90-96	6.36	5.09	7.94	10.32
Hyundai	Lantra	91-95	5.45	4.53	6.55	8.48
Hyundai	Lantra	96-00	4.76	4.17	5.43	5.99
Hyundai	Coupe	96-00	5.13	3.87	6.80	13.79
Hyundai	Accent	00-06	4.65	4.09	5.29	5.60
Mitsubishi	Lancer / Mirage CA	89-90	4.78	4.27	5.36	4.71
Mitsubishi	Lancer / Mirage CB	91-92	5.85	4.66	7.35	9.80
Mitsubishi	Lancer / Mirage CC	93-95	4.86	4.40	5.38	4.23
Mitsubishi	Lancer / Mirage CE	96-03	4.72	4.40	5.07	2.93
Mitsubishi	Cordia	83-87	6.71	5.70	7.90	7.38
Mitsubishi	Lancer CE / CG / Cedia	02-03	7.92	4.02	15.61	28.64
Mitsubishi	Lancer CH	03-07	3.72	3.05	4.53	7.77
Mitsubishi	Lancer CJ	08-10	3.43	1.80	6.55	26.41
Kia	Rio	00-05	4.53	3.85	5.32	6.43
Kia	Spectra	01-04	4.29	2.69	6.85	18.66
Kia	Cerato LD	04-08	3.81	2.60	5.57	13.03
Kia	Rio JB	05-10	4.08	3.14	5.31	10.58
Ford / Mazda	Laser / 323 / Familia	82-88	6.30	6.05	6.57	1.83
Mazda	323 / Familia / Lantis	90-93	4.69	4.21	5.22	4.14
Mazda	323 / Familia / Lantis	95-98	4.60	4.08	5.19	4.94
Ford / Mazda	Laser / 323	99-03	3.49	3.10	3.92	4.19
Mazda	MX5 / Eunos Roadster	89-97	4.76	3.09	7.34	16.89
Mazda	MX5 / Eunos Roadster	98-05	3.23	1.90	5.48	15.74
Mazda	Eunos 30X / Presso / MX-3 / Autozam AZ-3	90-97	4.05	2.70	6.08	15.87
Mazda	3 / Axela	03-09	2.63	2.28	3.05	4.59
Mazda	MX-5	05-10	3.63	1.53	8.58	30.69
Mazda	3 / Axela	09-10	2.60	1.28	5.27	22.13
Mercedes Benz	A-Class W168	98-04	4.68	2.72	8.08	25.21
Holden / Nissan	Astra / Pulsar / Langley	84-86	6.68	6.19	7.21	3.55
Holden / Nissan	Astra / Pulsar / Vector / Sentra	88-90	5.65	5.26	6.07	3.20
Nissan	Pulsar / Vector / Sentra	92-95	4.14	3.74	4.58	3.83

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Nissan	Pulsar / Vector / Sentra	96-99	4.54	4.17	4.95	3.47
Nissan	Stanza	82-83	4.79	3.15	7.31	16.05
Nissan	Gazelle / Silvia	84-86	6.60	5.22	8.33	7.93
Nissan	Exa	83-86	8.45	6.18	11.55	15.51
Nissan	Exa	87-91	6.30	3.95	10.05	22.75
Nissan	NX/NX-R	91-96	6.98	5.48	8.89	12.94
Nissan	Pulsar	00-05	4.01	3.61	4.45	4.03
Nissan	Tiida	06-10	4.00	2.63	6.10	16.46
Honda	Civic	82-83	6.13	4.97	7.57	8.20
Honda	Civic / Ballade / Shuttle	84-87	6.86	6.09	7.72	5.33
Honda	Civic / Shuttle	88-91	5.18	4.65	5.77	4.34
Honda	Civic	92-95	4.42	3.92	4.98	4.62
Honda	Civic	96-00	4.09	3.59	4.66	5.06
Honda	CRX	87-91	7.61	5.92	9.79	10.46
Honda	CRX	92-98	4.96	3.10	7.93	19.17
Honda	S2000	99-09	1.17	0.37	3.73	24.91
Honda	Civic	01-05	3.37	2.67	4.24	8.69
Honda	Civic	06-10	2.18	1.55	3.08	9.45
Honda	Integra	86-88	5.72	4.53	7.23	9.18
Honda	Integra	90-92	4.62	3.59	5.95	9.38
Honda	Integra	93-01	4.19	3.33	5.29	8.86
Honda	Integra	02-06	3.66	1.98	6.79	22.29
Honda	Concerto	89-93	4.75	3.60	6.27	10.80
Peugeot	306	94-01	2.89	2.16	3.86	8.61
Peugeot	307	01-09	1.63	0.96	2.76	12.21
Proton	Wira	95-96	5.06	4.06	6.31	9.79
Proton	Gen 2	04-10	5.49	3.00	10.03	27.86
Renault	Megane II	03-10	3.65	1.29	10.30	39.74
Renault	19	91-96	3.62	1.85	7.07	21.44
Renault	Scenic	01-04	3.31	1.54	7.12	26.13
Rover	Quintet	82-86	5.59	3.54	8.84	18.81
MG	MGF / MG TF	99-05	3.07	1.59	5.90	26.64
Subaru	Impreza	93-00	4.90	4.38	5.48	4.88
Subaru	Impreza	01-07	3.03	2.50	3.67	7.08
Subaru	Impreza	07-10	2.38	1.19	4.77	22.39
Suzuki	Baleno / Cultus Crescent	95-02	4.36	3.49	5.44	8.97
Suzuki	Liana	01-07	3.58	2.41	5.31	13.96
Toyota	Corolla	82-84	6.04	5.58	6.53	3.40
Toyota	Corolla	86-88	5.65	5.29	6.03	2.87
Toyota / Holden	Corolla / Nova	89-93	5.01	4.75	5.29	2.27
Toyota / Holden	Corolla / Nova	94-97	4.56	4.26	4.87	2.77
Toyota	Corolla / Allex	98-01	3.21	2.85	3.62	3.99
Toyota	Corolla	02-07	3.46	3.16	3.78	3.28
Toyota	Corolla	07-10	3.10	2.49	3.86	7.47
Toyota	Tercel	83-88	5.27	3.77	7.35	13.41
Toyota	MR2	87-90	7.30	5.22	10.21	15.37
Toyota	MR2	91-00	4.74	3.01	7.45	15.52
Toyota	Paseo / Cynos	91-99	4.69	3.76	5.84	8.87
Toyota	Corolla 4WD Wagon	92-96	4.13	2.59	6.58	20.53
Toyota	Prius II	03-09	1.94	1.00	3.77	18.85

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Volvo	300 Series	84-88	5.83	3.36	10.13	29.09
Volvo	S40/V50	04-10	1.10	0.16	7.62	33.26
Volvo	S40/V40	97-04	2.27	1.45	3.55	12.58
Volkswagen	Golf	82-94	5.99	3.75	9.56	21.98
Volkswagen	Golf	95-98	3.18	2.23	4.53	12.51
Volkswagen	Golf / Bora	99-04	2.13	1.61	2.82	6.77
Volkswagen	New Beetle	00-10	2.64	1.53	4.55	16.73
Volkswagen	Golf / Jetta	04-10	1.54	1.05	2.26	7.99
Light Cars			**5.17**	**5.05**	**5.30**	**0.25**
Citroen	C3	02-10	3.29	1.23	8.78	32.06
Daihatsu	Charade	82-86	8.90	7.78	10.19	6.96
Daihatsu	Charade	88-92	6.68	6.06	7.37	4.62
Daihatsu	Charade	93-00	6.76	6.07	7.53	5.48
Daihatsu	Pyzar	97-01	5.41	3.46	8.45	20.73
Daihatsu	Sirion / Storia	98-04	5.07	4.10	6.26	8.34
Daihatsu	Charade	03-05	2.14	0.53	8.61	22.55
Daihatsu	Mira	90-96	10.31	8.46	12.57	10.19
Daewoo	Matiz	99-04	5.61	4.41	7.13	8.12
Daewoo	Kalos	03-04	5.57	3.91	7.93	16.91
Ford	Festiva WD/WH/WF	94-01	6.41	6.01	6.85	3.02
Ford	Ka	99-02	5.41	3.92	7.47	14.07
Ford	Fiesta WP/WQ	04-08	0.83	0.12	5.75	27.43
Holden	Barina XC	01-06	3.51	2.94	4.18	5.88
Holden	Barina SB	95-00	4.75	4.26	5.30	4.10
Holden	Barina TK	05-10	4.13	3.36	5.07	7.94
Hyundai	Getz / TB	02-10	4.65	4.04	5.35	6.25
Mitsubishi	Mirage / Colt	82-88	6.51	6.06	6.99	3.17
Mitsubishi	Colt	04-10	3.68	2.44	5.57	15.47
Ford / Mazda	Festiva WA / 121	87-90	6.67	6.09	7.29	4.21
Mazda	121 / Autozam Review	94-96	5.69	4.98	6.50	5.71
Mazda	121 Metro / Demio	97-02	4.73	4.04	5.53	6.36
Mazda	2	02-07	4.25	3.32	5.44	10.97
Mazda	2	07-10	2.36	1.55	3.59	11.56
Nissan	Micra	95-97	6.72	5.29	8.54	11.80
Honda	Jazz / Fit	02-08	3.44	2.77	4.28	7.91
Honda	Jazz GE	08-10	4.02	1.97	8.21	30.76
Honda	City	83-86	8.01	6.54	9.80	7.12
Peugeot	205	87-94	4.68	2.89	7.59	19.20
Peugeot	206	99-07	4.27	3.05	5.97	15.14
Proton	Satria	97-05	4.36	1.89	10.09	29.80
Renault	Clio	01-08	3.96	2.11	7.44	23.34
Subaru	Sherpa / Fiori / 700 / Rex	89-92	10.39	8.48	12.72	9.87
Suzuki	Swift	82-85	8.79	5.75	13.43	21.91
Holden / Suzuki	Barina / Swift / Cultus	86-88	8.26	7.44	9.16	5.06
Holden / Suzuki	Barina / Swift / Cultus	89-99	6.27	5.89	6.69	2.90
Suzuki	Hatch / Alto	82-84	10.60	8.71	12.90	9.97
Suzuki	Alto	85-00	10.19	7.76	13.38	13.06
Suzuki	Ignis	00-02	5.75	4.24	7.79	12.62

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Suzuki	Swift	05-10	3.94	3.27	4.74	6.86
Toyota	Starlet	96-99	5.69	5.07	6.39	5.31
Toyota	Echo	99-05	4.60	4.15	5.10	4.31
Toyota	Yaris	05-10	3.29	2.75	3.92	6.00
Volkswagen	Polo	96-00	3.30	2.15	5.06	12.70
Volkswagen	Polo	02-10	3.25	1.96	5.39	17.03

CRASHWORTHINESS RATINGS
(WITH 90% CONFIDENCE LIMITS)

New South Wales and Victoria Data (1987-2010), South Australia Data (1995-2010), Queensland Data (1991-2009), Western Australia and New Zealand Data (1991-2010)

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
ALL VEHICLE AVERAGE			**3.64**			
Compact Sports Utility Vehicles			**3.53**	**3.40**	**3.66**	**0.26**
Daihatsu	Feroza / Rocky	89-97	5.29	19.43	31.03	11.60
Daihatsu	Rocky / Rugger	85-98	6.91	22.61	37.18	14.57
Daihatsu	Terios	97-05	4.83	15.16	24.91	9.75
Holden	Cruze	02-06	4.79	18.15	28.96	10.81
Hyundai	Tucson	04-10	4.04	17.91	46.32	28.41
Mitsubishi	Outlander	03-06	3.06	11.77	30.46	18.69
Mitsubishi / Peugeot	Outlander / 4007	06-10	1.55	5.26	27.34	22.08
Kia	Sportage	98-03	3.23	13.04	23.91	10.87
Kia	Sorento	03-09	3.15	15.92	38.97	23.06
Kia	Sportage KM	05-10	5.29	15.51	49.14	33.63
Ford / Mazda	Escape / Tribute	01-06	2.96	16.61	25.79	9.18
Mazda	CX-7	06-10	1.19	3.51	23.05	19.55
Nissan	X-Trail	01-07	2.89	15.21	21.62	6.41
Lada	Niva	84-99	4.38	14.30	31.86	17.56
Honda	CR-V	97-01	2.78	16.01	23.42	7.41
Honda	CR-V	02-06	2.34	12.02	19.39	7.37
Honda	HR-V	99-02	4.21	17.31	36.36	19.05
Honda	CR-V	07-10	2.66	14.59	34.52	19.93
Land Rover	Freelander	98-06	4.46	19.59	45.30	25.72
Subaru	Forester	08-10	3.32	10.27	39.14	28.87
Subaru	Forester	97-02	2.84	15.31	22.50	7.19
Subaru	Forester	02-08	2.32	13.82	21.62	7.80
Suzuki	Vitara / Escudo	88-98	5.38	21.69	27.50	5.81
Suzuki	Grand Vitara	99-05	3.12	14.13	24.54	10.41
Holden / Suzuki	Drover / Sierra / Samurai / SJ410 / SJ413	82-99	6.32	20.20	25.26	5.06
Suzuki	Jimny	98-10	4.48	14.07	27.21	13.15
Suzuki	Grand Vitara	05-08	2.76	10.78	28.10	17.32
Suzuki	SX4	07-10	1.51	4.36	28.39	24.03
Toyota	RAV4	94-00	3.78	18.76	24.95	6.19
Toyota	RAV4	01-06	2.95	16.55	23.20	6.65
Toyota	RAV4	06-10	2.67	15.67	27.09	11.42
Medium Sports Utility Vehicles			**2.72**	**2.59**	**2.86**	**0.27**
Daewoo / Ssangong	Musso	98-02	4.08	20.34	45.63	25.29
Ford	Territory SX/SY	04-10	1.88	11.87	21.03	9.16

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Holden / Isuzu	Jackaroo / Bighorn	82-91	3.81	13.43	22.43	9.00
Holden / Isuzu	Jackaroo / Bighorn	92-97	2.92	13.92	24.43	10.52
Holden / Isuzu	Jackaroo / Bighorn	98-02	3.51	16.69	28.64	11.95
Holden	Frontera / Mu	95-03	3.37	13.50	29.34	15.84
Holden	Adventra	03-06	1.61	5.22	23.85	18.63
Holden	Captiva CG	06-10	1.70	6.43	19.88	13.45
Hyundai	Santa Fe	00-06	3.76	16.08	36.29	20.21
Hyundai	Terracan	01-07	2.07	6.76	31.18	24.42
Mitsubishi	Pajero	82-90	5.07	22.07	29.80	7.73
Mitsubishi	Pajero	92-99	3.23	19.45	26.36	6.91
Mitsubishi	Pajero NM / NP / NS	00-06	2.19	14.66	26.95	12.30
Mitsubishi	Pajero NM / NP / NS	07-10	1.41	5.35	41.62	36.26
Mitsubishi	Challenger	98-06	3.73	18.79	36.33	17.53
Jeep	Cherokee XJ	96-00	3.42	18.38	27.99	9.61
Jeep	Wrangler	96-04	3.70	15.47	32.98	17.51
Jeep	Cherokee KJ	01-07	2.13	10.78	28.09	17.30
Jeep	Wrangler	05-10	1.03	2.78	25.25	22.47
Land Rover	Defender	92-10	4.23	20.26	40.88	20.61
Nissan	Pathfinder / Terrano	88-94	3.02	17.41	26.93	9.53
Nissan	Pathfinder / Terrano / Regulus	95-05	2.12	12.03	21.32	9.29
Nissan	Murano	05-08	1.01	2.22	29.47	27.25
Nissan	Pathfinder	05-10	0.82	3.15	17.93	14.78
Toyota	Kluger / Highlander	03-07	2.94	14.92	28.93	14.01
Toyota	Landcruiser Prado	96-03	2.63	17.75	27.74	9.99
Toyota	Landcruiser Prado	03-09	1.74	13.53	21.13	7.60
Lexus	RX330	03-05	2.86	15.84	49.62	33.78
Toyota	Kluger / Highlander	07-10	1.68	6.40	25.50	19.10
Volvo	XC 90	03-10	1.50	6.89	40.77	33.87
Large Sports Utility Vehicles			**2.77**	**2.67**	**2.87**	**0.20**
BMW	X5	01-08	1.14	5.81	23.93	18.12
Ford	Bronco	82-87	6.68	22.32	58.15	35.83
Ford	Explorer	00-01	4.37	17.05	31.72	14.66
Ford	Explorer	01-05	2.05	9.95	26.68	16.73
Jeep	Grand Cherokee ZG	96-99	2.26	9.80	29.16	19.37
Jeep	Grand Cherokee WG	99-05	1.91	10.10	28.01	17.90
Land Rover	Discovery	91-02	2.51	14.41	24.56	10.15
Mercedes Benz	M-Class W163	98-05	2.17	12.31	36.06	23.75
Nissan	Patrol / Safari	82-87	3.94	19.75	30.52	10.76
Nissan / Ford	Patrol / Maverick / Safari	88-97	2.81	20.12	24.84	4.72
Nissan	Patrol / Safari	98-10	2.23	18.36	24.15	5.79
Land Rover	Range Rover	82-94	3.14	15.49	26.57	11.08
Land Rover	Range Rover	95-02	1.49	5.03	21.61	16.58
Toyota	Landcruiser	82-89	4.57	24.97	29.65	4.68
Toyota	Landcruiser	90-97	3.16	22.01	25.75	3.73
Toyota	Landcruiser	98-07	2.63	18.85	23.13	4.28

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Commercial - Vans			**3.88**	**3.72**	**4.04**	**0.32**
Daihatsu	Handivan	82-90	9.57	21.08	32.29	11.21
Daihatsu	Hi-Jet	82-90	13.12	20.03	40.43	20.40
Daihatsu	Handivan / Cuore	99-03	6.91	14.12	35.40	21.29
Ford	Falcon Panel Van	82-95	3.83	17.50	24.75	7.25
Ford	Falcon Panel Van	96-99	2.83	11.63	29.62	17.99
Ford	Transit	95-00	3.19	15.01	27.97	12.97
Ford	Transit	01-07	1.38	8.04	18.71	10.67
Holden	Shuttle / WFR Van	82-87	6.89	20.07	38.29	18.22
Kia	Pregio	02-06	3.59	13.37	27.21	13.85
Mercedes Benz	MB100 / MB140	99-04	2.56	11.06	36.98	25.93
Mercedes Benz	Vito	99-04	2.21	11.41	33.15	21.74
Mercedes Benz	Sprinter	98-06	2.47	10.54	24.87	14.33
Honda	Acty	83-86	4.30	14.91	36.39	21.48
Holden / Suzuki	Scurry / Carry	82-00	10.56	22.70	36.54	13.84
Suzuki	Carry	99-05	4.27	10.96	43.79	32.83
Toyota	Hiace/Liteace	82-86	6.33	23.60	29.13	5.53
Toyota	Hiace/Liteace	87-89	5.49	21.20	27.75	6.56
Toyota	Hiace/Liteace	90-95	4.97	23.24	28.85	5.61
Toyota	Hiace/Liteace	96-04	3.32	18.80	24.18	5.37
Toyota	Hiace	05-10	3.93	18.94	34.49	15.55
Volkswagen	Caravelle / Transporter	88-94	3.27	10.23	39.14	28.91
Volkswagen	Caravelle / Transporter	95-04	1.98	7.19	19.12	11.93
Volkswagen	Caddy	05-10	3.05	6.97	31.08	24.10
Commercial - Utes			**3.37**	**3.30**	**3.45**	**0.15**
Ford / Nissan	Falcon Ute / XFN Ute	82-95	4.26	22.50	26.77	4.27
Ford	Falcon Ute	96-99	3.46	17.44	24.79	7.34
Ford	Falcon Ute AU	00-02	2.57	15.78	22.32	6.55
Ford	Falcon Ute BA/BF	03-08	2.36	16.11	22.95	6.84
Ford	Ford F-Series	82-92	2.89	13.24	26.64	13.40
Ford	F-Series	01-06	2.29	15.77	44.88	29.11
Holden	Commodore Ute VG/VP	90-93	4.67	22.26	31.66	9.40
Holden / Isuzu	Rodeo / Pickup	82-85	5.16	17.82	31.80	13.97
Holden / Isuzu	Rodeo / Pickup	86-88	2.87	7.39	22.72	15.33
Holden / Isuzu	Rodeo / Pickup	89-95	4.66	22.64	27.53	4.89
Holden	Rodeo	96-98	3.46	17.33	23.69	6.36
Holden	Rodeo	99-02	3.69	19.73	26.03	6.30
Holden	WB Series	82-85	5.67	26.79	37.90	11.10
Holden	Commodore Ute VR/VS	94-00	4.13	22.83	27.24	4.40
Holden	Commodore VU Ute	00-02	3.13	19.34	27.20	7.86
Holden	Commodore VY/VZ Ute	02-07	2.71	17.57	22.56	4.98
Holden	Rodeo	03-08	2.68	15.81	21.18	5.37
Holden	Commodore VE Ute	07-10	2.19	9.88	27.84	17.95
Holden	Colorado RC	08-10	1.57	4.70	23.01	18.31
Mitsubishi	Triton MK	96-06	2.56	13.49	24.30	10.81
Mitsubishi	Triton ML / MN	06-10	2.09	10.06	22.38	12.32

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Kia	Ceres	92-00	6.06	23.44	34.49	11.05
Kia	K2700	02-08	4.95	19.45	55.44	35.99
Ford / Mazda	Courier / B-Series / Bounty	98-02	3.10	17.67	25.23	7.56
Ford / Mazda	Courier / Bravo / Bounty	03-06	3.06	15.08	22.80	7.72
Ford / Mazda	Ranger / BT-50	06-10	2.19	11.60	19.54	7.95
Nissan	720 Ute	82-85	4.86	19.00	28.20	9.20
Nissan	Navara	86-91	4.44	21.55	27.63	6.07
Nissan	Navara	92-96	3.94	19.74	28.03	8.29
Nissan	Navara	97-05	2.53	18.82	25.87	7.05
Nissan	Navara	05-10	2.27	14.46	26.80	12.34
Proton	Jumbuck	03-10	3.55	10.28	40.96	30.67
Subaru	Brumby	82-92	7.09	26.62	35.18	8.56
Suzuki	Mighty Boy	85-88	10.51	20.72	34.61	13.89
Toyota	4Runner/Hilux	82-85	5.16	22.69	27.73	5.04
Toyota	4Runner/Hilux	86-88	4.77	22.62	27.70	5.09
Toyota	4Runner/Hilux	89-97	4.24	22.92	25.63	2.71
Toyota	Hilux	98-02	2.95	17.64	21.90	4.26
Toyota	Hilux	03-04	2.72	16.02	23.32	7.30
Toyota	Hilux	05-10	2.14	14.71	20.03	5.32
Large Cars			**3.49**	**3.44**	**3.54**	**0.10**
BMW	7 Series E23	82-86	2.76	12.47	44.97	32.50
BMW	7 Series E32	87-94	4.69	18.02	40.02	22.00
BMW	7 Series E38	95-01	1.56	6.18	31.57	25.39
Ford	Falcon XE/XF	82-88	4.74	23.99	25.95	1.97
Ford	Fairlane Z & LTD F	82-87	4.55	22.02	27.22	5.20
Ford	Falcon EA / Falcon EB Series I	88-Mar 92	4.28	22.53	24.61	2.08
Ford	Falcon EB Series II / Falcon ED	Apr 92-94	3.91	22.02	24.91	2.90
Ford	Fairlane N & LTD D	88-94	3.45	20.29	25.81	5.52
Ford	Fairlane N & LTD D	95-98	3.56	18.56	27.03	8.47
Ford	Fairlane & LTD AU	99-02	3.00	13.97	26.02	12.05
Ford	Fairlane & LTD BA/BF	03-07	2.79	13.08	34.39	21.31
Ford	Falcon FG	08-10	1.38	7.96	19.94	11.98
Ford	Falcon EF/EL	94-98	3.59	20.53	22.47	1.94
Ford	Falcon AU	98-02	3.27	19.21	21.68	2.47
Ford	Taurus	96-98	4.09	16.00	31.32	15.32
Ford	Falcon BA/BF	02-08	2.62	17.22	20.03	2.81
Holden / Toyota	Commodore VN/VP / Lexcen	89-93	4.75	24.31	26.14	1.83
Holden	Statesman/Caprice WB	82-85	7.42	27.57	56.62	29.05
Holden	Stateman/Caprice VQ	90-93	4.82	21.96	37.59	15.63
Holden	Stateman/Caprice VR/VS	94-98	3.60	19.34	25.15	5.80
Holden / Toyota	Commodore VR/VS / Lexcen	93-97	4.00	21.91	23.74	1.84
Holden	Commodore VT/VX	97-02	3.38	19.34	21.22	1.88
Holden	Statesman/Caprice WH	99-03	2.78	13.46	23.12	9.66
Holden	Commodore VY/VZ	02-07	2.73	16.31	19.13	2.82
Holden	Monaro	01-05	3.21	15.64	28.03	12.39
Holden	Statesman/Caprice WK/WL	03-06	3.04	14.06	30.84	16.78
Holden	Commodore VB-VL	82-88	5.29	25.03	27.04	2.01
Holden	Commodore VE	06-10	2.57	15.30	20.22	4.93

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Hyundai	Sonata	89-97	3.98	17.59	23.65	6.07
Hyundai	Grandeaur / XG	99-00	1.57	3.83	24.66	20.83
Mitsubishi	Magna TM/TN/TP / Sigma / V3000	85-90	5.00	23.49	26.07	2.58
Mitsubishi	Magna TE/TF/TH/TJ / Verada KE/KF/KH/KJ / Diamante	96-03	3.72	20.50	23.64	3.14
Mitsubishi	Magna TR/TS / Verada KR/KS / V3000 / Diamante	91-96	3.94	20.59	23.18	2.58
Mitsubishi	Magna TL/TW / Verada KL/KW	03-05	2.79	13.29	22.41	9.12
Mitsubishi	380	05-08	2.02	8.45	21.89	13.44
Jaguar	XJ6	82-86	5.87	18.86	44.70	25.84
Jaguar	XJ6	87-94	2.07	8.28	25.23	16.94
Jaguar	S-Type	99-08	1.52	6.79	34.34	27.56
Kia	Optima	01-06	3.41	5.92	36.10	30.18
Mazda	929 / Luce	82-90	5.10	21.34	27.62	6.29
Mazda	929 / Sentia / Efini MS-9	92-96	4.34	13.81	37.64	23.83
Mercedes Benz	E-Class W123	82-85	3.42	12.35	35.51	23.16
Mercedes Benz	E-Class W124	86-94	3.17	13.88	24.90	11.01
Mercedes Benz	E-Class W210	96-02	2.37	10.99	25.64	14.65
Mercedes Benz	S-Class W126	82-92	3.26	15.12	29.99	14.87
Mercedes Benz	E-Class W211	02-09	1.99	6.38	33.27	26.88
Nissan	Skyline	83-88	4.87	23.03	27.43	4.40
Nissan	300ZX / Fairlady Z	90-95	4.58	16.19	29.76	13.58
Nissan	Maxima	90-94	4.14	18.29	27.12	8.83
Nissan	Maxima / Cefiro	95-99	3.84	17.88	26.13	8.25
Nissan	Maxima	00-02	3.71	15.22	28.00	12.79
Nissan	Maxima	06-09	2.59	11.29	26.19	14.90
Honda	Legend	86-95	3.30	17.52	30.18	12.66
Rover	3500	82-87	2.40	4.27	26.58	22.31
Saab	9-5	98-05	2.39	6.54	28.54	22.00
Toyota	Camry	98-02	3.35	18.66	21.79	3.13
Toyota	Crown / Cressida / Mark II	82-85	5.03	20.88	28.72	7.84
Toyota	Crown / Cressida / Mark II	86-88	4.78	23.44	39.24	15.80
Toyota	Cressida / Mark II	89-93	3.24	16.85	25.23	8.38
Toyota	Supra	82-90	6.21	23.02	39.48	16.45
Lexus	ES300 / Windom	92-01	3.79	16.65	30.08	13.43
Lexus	LS400 / Celsior	90-00	1.66	4.64	25.12	20.49
Toyota	Avalon	00-05	2.99	16.58	23.22	6.64
Toyota	Camry	02-06	2.74	15.00	18.96	3.96
Toyota	Aurion	06-10	2.27	11.77	23.60	11.83
Toyota	Camry	06-10	2.66	14.42	22.80	8.38
Volvo	850/S70/V70/C70	92-99	3.28	16.20	25.77	9.58
Volvo	700/900 Series	84-92	2.87	13.26	21.81	8.55
Volvo	960/S90/V90	90-98	3.01	7.43	37.68	30.25
Medium Cars			**3.73**	**3.66**	**3.79**	**0.13**
Alfa Romeo	156	99-06	2.96	10.07	30.18	20.11
Alfa Romeo	147 / GT	01-10	3.16	9.57	39.44	29.88
Audi	A4	95-01	3.53	17.44	31.86	14.42
Audi	A4	01-08	1.62	6.70	21.48	14.77

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
BMW	Z3 E36	97-03	3.03	12.58	38.05	25.48
BMW	5 Series E60 / E61	03-10	2.04	6.47	33.98	27.51
BMW	3 Series E90 /E91 /E92 /E93	05-10	1.51	4.35	16.54	12.19
BMW	3 Series E30	82-91	4.09	19.64	25.85	6.20
BMW	3 Series E36	92-98	3.41	16.97	21.94	4.97
BMW	3 Series E46	99-06	3.18	15.65	22.62	6.97
BMW	5 Series E28	82-88	3.58	16.86	32.08	15.22
BMW	5 Series E34	89-95	3.28	15.15	27.33	12.18
BMW	5 Series E39	96-03	2.25	13.29	26.64	13.35
Chrysler	PT Cruiser	00-10	2.50	5.60	32.58	26.98
Daewoo	Espero	95-97	6.19	20.11	32.21	12.10
Daewoo	Leganza	97-02	3.82	15.12	27.44	12.32
Daewoo	Tacuma	00-04	7.42	18.70	56.02	37.33
Ford	Mondeo	95-01	3.02	15.70	21.93	6.23
Ford	Mondeo	07-10	2.31	4.78	38.76	33.98
Ford	Probe	94-98	4.89	13.93	34.33	20.40
Ford	Cougar	99-03	2.83	11.32	22.23	10.92
Holden	Calibra	94-97	3.93	15.18	30.99	15.82
Holden	Camira	82-89	5.98	22.56	25.46	2.91
Holden	Vectra	97-03	3.18	15.53	20.98	5.45
Holden	Vectra ZC	03-05	2.60	10.42	24.36	13.93
Hyundai	Sonata	98-01	4.21	17.44	31.51	14.07
Hyundai	Sonata EF	02-05	2.98	6.43	31.72	25.28
Hyundai	Tiburon	02-10	2.90	4.43	35.44	31.01
Hyundai	Sonata NF	05-10	1.32	1.52	23.72	22.19
Mitsubishi	Sigma / Galant / Sapporo / Lambda	82-84	5.28	22.32	25.64	3.33
Mitsubishi	Starion	82-87	9.51	29.46	54.35	24.89
Mitsubishi	Galant	95-96	4.56	18.82	26.16	7.35
Jaguar	X-Type	02-10	1.27	3.55	29.92	26.37
Kia	Credos	98-01	5.87	10.55	47.03	36.48
Ford / Mazda	Telstar / 626 / MX6 / Capella	83-86	4.88	21.22	24.45	3.23
Ford / Mazda	Telstar / 626 / MX6 / Capella	88-91	4.33	20.91	24.70	3.80
Ford / Mazda	Telstar / 626 / MX6 / Capella / Cronos	92-97	3.94	21.72	26.10	4.38
Mazda	626	98-02	3.23	16.12	23.27	7.15
Mazda	RX7	82-85	5.74	18.41	32.35	13.94
Mazda	RX7	86-91	4.52	17.69	33.67	15.98
Mazda	Eunos 500	93-99	3.87	9.92	26.90	16.97
Mazda	Eunos 800	94-00	2.92	8.48	41.92	33.44
Mazda	6	02-07	2.34	11.91	18.17	6.27
Mazda	RX-8	03-10	1.06	2.62	23.70	21.08
Mazda	6	08-10	1.54	4.60	24.33	19.72
Mercedes Benz	C-Class W201	87-93	4.16	17.71	31.18	13.47
Mercedes Benz	C-Class W202	95-00	2.96	14.63	25.56	10.92
Mercedes Benz	CLK C208	97-03	3.29	9.93	37.36	27.43
Mercedes Benz	SLK R170	97-04	2.35	4.66	36.81	32.15
Mercedes Benz	C-Class W203	00-07	2.64	12.20	26.76	14.56
Mercedes Benz	CLK C209	03-09	1.65	5.14	32.03	26.89
Mercedes Benz	C-Class W204	07-10	1.13	3.38	29.98	26.60
Nissan	Pintara	86-88	4.91	22.18	27.51	5.33

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Nissan / Ford	Pintara / Corsair / Bluebird	89-92	5.27	22.94	26.60	3.66
Nissan	Bluebird	82-86	5.93	24.61	28.03	3.42
Nissan	280ZX	82-84	5.62	15.47	50.58	35.10
Nissan	Bluebird	93-97	3.66	19.73	25.86	6.13
Nissan	200SX / Silvia	94-02	3.58	18.25	29.13	10.88
Nissan	350Z	03-09	5.03	15.96	40.78	24.81
Honda	Accord Euro	03-08	2.66	13.11	22.40	9.29
Honda	Accord	03-07	2.24	10.13	20.39	10.26
Honda	Accord	82-85	5.79	22.44	27.94	5.50
Honda	Accord	86-90	4.14	19.81	25.32	5.51
Honda	Accord	91-93	3.64	20.96	29.50	8.54
Honda	Accord	94-98	3.57	20.05	26.25	6.20
Honda	Accord	99-02	2.41	10.94	21.79	10.85
Honda	Accord	08-10	3.53	18.17	52.66	34.49
Honda	Prelude	82-82	3.84	8.97	36.81	27.84
Honda	Prelude	83-91	4.90	22.66	27.50	4.84
Honda	Prelude	92-96	4.39	21.06	29.87	8.81
Honda	Prelude	97-02	2.65	10.44	21.98	11.54
Peugeot	405	89-97	3.77	17.29	30.30	13.01
Peugeot	505	82-93	2.90	15.12	29.75	14.63
Peugeot	406	96-04	2.37	13.10	35.85	22.75
Porsche	944	82-91	5.24	16.22	57.99	41.77
Renault	Feugo	82-87	4.23	13.82	33.80	19.98
Rover	75	01-05	2.93	8.22	41.64	33.42
Saab	900 Series	82-92	4.13	17.76	29.73	11.97
Saab	900/9-3	94-02	2.37	11.51	22.06	10.55
Saab	9000	86-97	2.33	9.55	20.31	10.77
Saab	9-3	03-10	2.96	10.24	33.96	23.72
Subaru	1800 / Leone / Omega / 4WD Wagon	82-93	5.27	21.94	26.16	4.22
Subaru	Liberty / Legacy	89-93	4.13	20.01	24.19	4.19
Subaru	Liberty / Legacy / Outback	94-98	3.44	18.67	24.05	5.38
Subaru	Liberty / Legacy / Outback	99-03	2.53	15.06	21.42	6.36
Subaru	Liberty / Legacy / Outback	03-09	2.36	15.32	24.94	9.62
Toyota	Corona	82-88	5.38	22.88	25.87	2.99
Toyota	Camry	83-86	5.31	21.89	28.68	6.78
Holden / Toyota	Apollo JK/JL / Camry / Vista	88-92	4.32	22.04	24.40	2.36
Holden / Toyota	Apollo JM/JP / Camry / Sceptor	93-97	4.54	22.14	24.77	2.63
Toyota	Celica	81-85	4.70	18.18	25.04	6.86
Toyota	Celica	86-89	4.68	20.60	29.10	8.50
Toyota	Celica	90-93	4.92	21.87	29.55	7.68
Toyota	Celica	94-99	3.96	15.47	24.24	8.76
Toyota	Celica	00-05	3.62	14.86	33.73	18.87
Lexus	IS200 / IS300	99-04	1.70	5.87	22.08	16.21
Lexus	IS350 / IS250 / IS F	05-10	2.52	9.38	43.27	33.89
Volvo	200 Series	82-93	3.63	19.75	28.28	8.53
Volvo	S60	01-09	1.80	7.51	42.48	34.97
Volkswagen	Passat	98-06	2.20	10.74	27.00	16.26
Volkswagen	Passat	06-10	1.47	5.90	30.42	24.53

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
People Movers			**3.98**	**3.82**	**4.16**	**0.34**
Chrysler	Voyager	97-01	2.05	7.82	27.81	19.99
Holden	Zafira TT	01-05	3.09	11.66	33.09	21.43
Mitsubishi	Nimbus / Chariot / Spacewagon	85-91	5.00	16.43	28.01	11.58
Mitsubishi	Nimbus / Chariot	92-98	4.48	17.43	28.61	11.18
Mitsubishi	Nimbus	99-03	1.98	7.13	30.75	23.62
Mitsubishi	Starwagon / L300	83-86	8.09	26.23	33.15	6.92
Mitsubishi	Starwagon / Delica Starwagon	87-93	5.63	22.30	27.47	5.17
Mitsubishi	Starwagon / Delica Spacegear	95-98	4.22	16.87	26.65	9.79
Mitsubishi	Starwagon / Delica Spacegear	98-03	4.68	22.21	34.05	11.85
Kia	Carnival	99-06	2.63	14.83	26.81	11.98
Kia	Carnival	06-10	1.18	4.52	24.25	19.73
Mazda	MPV	94-99	1.96	6.07	31.00	24.93
Mazda	MPV	00-06	2.36	9.51	48.91	39.40
Nissan	Prairie	84-86	5.16	15.50	28.70	13.20
Nissan	Serena	92-95	2.48	10.89	24.10	13.21
Honda	Odyssey	95-00	2.54	13.11	23.77	10.66
Honda	Odyssey	00-02	2.51	9.88	40.61	30.73
Honda	Odyssey	04-09	0.99	2.76	17.93	15.18
Toyota	Tarago	83-89	6.45	23.79	29.55	5.76
Toyota	Tarago / Previa / Estima	91-99	3.35	18.69	26.52	7.83
Toyota	Tarago / Previa / Estima	00-06	2.37	13.49	26.24	12.75
Toyota	Spacia	93-00	3.55	9.95	36.69	26.74
Toyota	Avensis Verso	01-10	5.51	20.98	58.32	37.35
Toyota	Tarago	06-10	1.97	5.76	29.94	24.18
Small Cars			**4.29**	**4.23**	**4.35**	**0.13**
Alfa Romeo	33	83-92	5.09	17.73	33.03	15.30
Alfa Romeo	75	86-92	3.41	7.20	40.12	32.91
Alfa Romeo	GTV	82-84	7.92	28.93	69.58	40.65
Alfa Romeo	Sprint	82-88	5.19	10.07	40.37	30.29
Alfa Romeo	Alfasud	82-84	7.09	14.51	53.45	38.94
Audi	A3	04-09	2.25	6.95	40.03	33.08
Audi	A3/S3	97-04	2.23	6.99	23.60	16.61
Mini	Mini Cooper	02-10	2.92	10.93	26.28	15.35
BMW	1 Series E81 / E82 / E87 / E88	04-10	1.73	4.49	23.78	19.29
Chrysler	Neon	96-99	4.28	16.06	34.47	18.41
Chrysler	Neon	00-02	5.30	15.24	51.42	36.18
Citroen	C4	05-10	3.89	9.89	51.50	41.60
Citroen	Xsara	00-05	2.41	2.58	32.70	30.11
Daihatsu	Applause	89-99	5.12	19.16	25.94	6.77
Daewoo	1.5i	94-95	6.78	12.70	40.68	27.98
Daewoo	Cielo	95-97	5.02	18.59	23.82	5.23
Daewoo	Nubira	97-03	4.03	18.25	24.60	6.35
Daewoo	Lanos	97-03	5.29	21.95	27.00	5.05
Daewoo	Lacetti	03-04	4.19	11.75	40.04	28.29
Ford	Laser	91-94	5.04	21.71	24.62	2.91

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Ford	Laser	95-97	4.90	21.60	26.85	5.25
Ford	Capri	89-94	6.18	19.44	27.97	8.53
Ford	Focus LR	02-05	2.92	13.00	20.18	7.17
Ford	Focus LS / LT	05-09	2.84	14.83	23.13	8.30
Fiat	Regata	84-88	5.18	15.60	48.69	33.09
Holden	Gemini	82-84	6.08	22.21	26.65	4.44
Holden	Gemini RB	86-87	6.31	18.18	27.53	9.35
Holden	Astra TR	96-98	3.83	16.36	25.81	9.46
Holden	Astra TS	98-06	3.13	16.09	19.47	3.38
Holden	Astra AH	04-09	2.79	13.69	21.12	7.43
Holden	Viva JF	05-09	3.14	13.00	23.23	10.23
Holden	Cruze JG	09-10	2.92	7.01	30.43	23.42
Hyundai	Excel	86-90	7.05	23.92	29.78	5.86
Hyundai	Excel	90-94	6.37	23.77	27.61	3.84
Hyundai	Excel / Accent	95-00	5.57	22.05	24.52	2.46
Hyundai	Elantra	00-06	4.15	18.24	26.00	7.76
Hyundai	Accent	06-10	1.98	4.58	23.25	18.67
Hyundai	i30	07-10	3.41	13.56	32.21	18.65
Hyundai	S Coupe	90-96	6.36	20.50	30.82	10.32
Hyundai	Lantra	91-95	5.45	20.93	29.41	8.48
Hyundai	Lantra	96-00	4.76	22.02	28.02	5.99
Hyundai	Coupe	96-00	5.13	20.89	34.68	13.79
Hyundai	Accent	00-06	4.65	20.90	26.50	5.60
Mitsubishi	Lancer / Mirage CA	89-90	4.78	21.09	25.80	4.71
Mitsubishi	Lancer / Mirage CB	91-92	5.85	20.46	30.26	9.80
Mitsubishi	Lancer / Mirage CC	93-95	4.86	21.11	25.35	4.23
Mitsubishi	Lancer / Mirage CE	96-03	4.72	20.74	23.67	2.93
Mitsubishi	Cordia	83-87	6.71	23.39	30.77	7.38
Mitsubishi	Lancer CE / CG / Cedia	02-03	7.92	11.70	40.34	28.64
Mitsubishi	Lancer CH	03-07	3.72	17.31	25.08	7.77
Mitsubishi	Lancer CJ	08-10	3.43	12.06	38.47	26.41
Kia	Rio	00-05	4.53	18.72	25.16	6.43
Kia	Spectra	01-04	4.29	14.00	32.65	18.66
Kia	Cerato LD	04-08	3.81	12.76	25.80	13.03
Kia	Rio JB	05-10	4.08	17.93	28.50	10.58
Ford / Mazda	Laser / 323 / Familia	82-88	6.30	23.84	25.67	1.83
Mazda	323 / Familia / Lantis	90-93	4.69	20.73	24.87	4.14
Mazda	323 / Familia / Lantis	95-98	4.60	20.05	25.00	4.94
Ford / Mazda	Laser / 323	99-03	3.49	17.18	21.37	4.19
Mazda	MX5 / Eunos Roadster	89-97	4.76	14.01	30.91	16.89
Mazda	MX5 / Eunos Roadster	98-05	3.23	9.16	24.90	15.74
Mazda	Eunos 30X / Presso / MX-3 / Autozam AZ-3	90-97	4.05	14.39	30.26	15.87
Mazda	3 / Axela	03-09	2.63	14.85	19.44	4.59
Mazda	MX-5	05-10	3.63	8.53	39.22	30.69
Mazda	3 / Axela	09-10	2.60	9.11	31.24	22.13
Mercedes Benz	A-Class W168	98-04	4.68	14.44	39.65	25.21
Holden / Nissan	Astra / Pulsar / Langley	84-86	6.68	24.36	27.91	3.55
Holden / Nissan	Astra / Pulsar / Vector / Sentra	88-90	5.65	23.59	26.80	3.20
Nissan	Pulsar / Vector / Sentra	92-95	4.14	19.23	23.06	3.83

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Nissan	Pulsar / Vector / Sentra	96-99	4.54	20.69	24.17	3.47
Nissan	Stanza	82-83	4.79	13.83	29.88	16.05
Nissan	Gazelle / Silvia	84-86	6.60	24.36	32.29	7.93
Nissan	Exa	83-86	8.45	20.92	36.43	15.51
Nissan	Exa	87-91	6.30	19.00	41.75	22.75
Nissan	NX/NX-R	91-96	6.98	24.74	37.69	12.94
Nissan	Pulsar	00-05	4.01	19.00	23.03	4.03
Nissan	Tiida	06-10	4.00	14.63	31.09	16.46
Honda	Civic	82-83	6.13	21.69	29.89	8.20
Honda	Civic / Ballade / Shuttle	84-87	6.86	25.06	30.39	5.33
Honda	Civic / Shuttle	88-91	5.18	21.32	25.66	4.34
Honda	Civic	92-95	4.42	19.11	23.73	4.62
Honda	Civic	96-00	4.09	18.57	23.63	5.06
Honda	CRX	87-91	7.61	24.72	35.18	10.46
Honda	CRX	92-98	4.96	15.85	35.01	19.17
Honda	S2000	99-09	1.17	3.20	28.11	24.91
Honda	Civic	01-05	3.37	16.61	25.30	8.69
Honda	Civic	06-10	2.18	10.49	19.94	9.45
Honda	Integra	86-88	5.72	21.21	30.39	9.18
Honda	Integra	90-92	4.62	18.05	27.43	9.38
Honda	Integra	93-01	4.19	18.07	26.93	8.86
Honda	Integra	02-06	3.66	10.29	32.58	22.29
Honda	Concerto	89-93	4.75	18.71	29.51	10.80
Peugeot	306	94-01	2.89	12.23	20.83	8.61
Peugeot	307	01-09	1.63	7.14	19.35	12.21
Proton	Wira	95-96	5.06	19.89	29.69	9.79
Proton	Gen 2	04-10	5.49	15.47	43.33	27.86
Renault	Megane II	03-10	3.65	6.92	46.65	39.74
Renault	19	91-96	3.62	8.66	30.10	21.44
Renault	Scenic	01-04	3.31	8.21	34.34	26.13
Rover	Quintet	82-86	5.59	15.37	34.18	18.81
MG	MGF / MG TF	99-05	3.07	12.47	39.11	26.64
Subaru	Impreza	93-00	4.90	22.45	27.33	4.88
Subaru	Impreza	01-07	3.03	16.71	23.79	7.08
Subaru	Impreza	07-10	2.38	8.73	31.12	22.39
Suzuki	Baleno / Cultus Crescent	95-02	4.36	17.71	26.69	8.97
Suzuki	Liana	01-07	3.58	13.35	27.31	13.96
Toyota	Corolla	82-84	6.04	22.72	26.12	3.40
Toyota	Corolla	86-88	5.65	23.10	25.97	2.87
Toyota / Holden	Corolla / Nova	89-93	5.01	22.30	24.57	2.27
Toyota / Holden	Corolla / Nova	94-97	4.56	21.25	24.02	2.77
Toyota	Corolla / Allex	98-01	3.21	15.93	19.92	3.99
Toyota	Corolla	02-07	3.46	18.30	21.58	3.28
Toyota	Corolla	07-10	3.10	15.06	22.52	7.47
Toyota	Tercel	83-88	5.27	16.90	30.31	13.41
Toyota	MR2	87-90	7.30	22.45	37.82	15.37
Toyota	MR2	91-00	4.74	14.48	30.01	15.52
Toyota	Paseo / Cynos	91-99	4.69	17.98	26.85	8.87
Toyota	Corolla 4WD Wagon	92-96	4.13	14.99	35.52	20.53
Toyota	Prius II	03-09	1.94	7.89	26.74	18.85

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Volvo	300 Series	84-88	5.83	20.96	50.05	29.09
Volvo	S40/V50	04-10	1.10	0.89	34.15	33.26
Volvo	S40/V40	97-04	2.27	9.50	22.08	12.58
Volkswagen	Golf	82-94	5.99	18.66	40.64	21.98
Volkswagen	Golf	95-98	3.18	13.29	25.80	12.51
Volkswagen	Golf / Bora	99-04	2.13	9.63	16.40	6.77
Volkswagen	New Beetle	00-10	2.64	9.75	26.49	16.73
Volkswagen	Golf / Jetta	04-10	1.54	7.54	15.53	7.99
Light Cars			**5.17**	**5.07**	**5.28**	**0.21**
Citroen	C3	02-10	3.29	6.08	38.14	32.06
Daihatsu	Charade	82-86	8.90	26.45	33.42	6.96
Daihatsu	Charade	88-92	6.68	23.33	27.95	4.62
Daihatsu	Charade	93-00	6.76	24.83	30.32	5.48
Daihatsu	Pyzar	97-01	5.41	16.44	37.17	20.73
Daihatsu	Sirion / Storia	98-04	5.07	17.47	25.81	8.34
Daihatsu	Charade	03-05	2.14	1.70	24.24	22.55
Daihatsu	Mira	90-96	10.31	24.02	34.20	10.19
Daewoo	Matiz	99-04	5.61	14.44	22.57	8.12
Daewoo	Kalos	03-04	5.57	19.45	36.35	16.91
Ford	Festiva WD/WH/WF	94-01	6.41	23.68	26.70	3.02
Ford	Ka	99-02	5.41	18.18	32.25	14.07
Ford	Fiesta WP/WQ	04-08	0.83	0.70	28.13	27.43
Holden	Barina XC	01-06	3.51	15.25	21.12	5.88
Holden	Barina SB	95-00	4.75	18.07	22.17	4.10
Holden	Barina TK	05-10	4.13	17.56	25.50	7.94
Hyundai	Getz / TB	02-10	4.65	21.29	27.54	6.25
Mitsubishi	Mirage / Colt	82-88	6.51	23.42	26.59	3.17
Mitsubishi	Colt	04-10	3.68	14.65	30.12	15.47
Ford / Mazda	Festiva WA / 121	87-90	6.67	23.66	27.87	4.21
Mazda	121 / Autozam Review	94-96	5.69	20.43	26.14	5.71
Mazda	121 Metro / Demio	97-02	4.73	19.12	25.47	6.36
Mazda	2	02-07	4.25	19.93	30.90	10.97
Mazda	2	07-10	2.36	10.04	21.60	11.56
Nissan	Micra	95-97	6.72	21.93	33.73	11.80
Honda	Jazz / Fit	02-08	3.44	16.35	24.25	7.91
Honda	Jazz GE	08-10	4.02	12.54	43.30	30.76
Honda	City	83-86	8.01	21.06	28.18	7.12
Peugeot	205	87-94	4.68	14.91	34.11	19.20
Peugeot	206	99-07	4.27	17.86	33.00	15.14
Proton	Satria	97-05	4.36	7.73	37.54	29.80
Renault	Clio	01-08	3.96	10.77	34.11	23.34
Subaru	Sherpa / Fiori / 700 / Rex	89-92	10.39	22.26	32.13	9.87
Suzuki	Swift	82-85	8.79	19.98	41.90	21.91
Holden / Suzuki	Barina / Swift / Cultus	86-88	8.26	24.78	29.84	5.06
Holden / Suzuki	Barina / Swift / Cultus	89-99	6.27	23.29	26.19	2.90
Suzuki	Hatch / Alto	82-84	10.60	23.11	33.08	9.97
Suzuki	Alto	85-00	10.19	23.74	36.80	13.06
Suzuki	Ignis	00-02	5.75	17.17	29.79	12.62

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Suzuki	Swift	05-10	3.94	17.17	24.03	6.86
Toyota	Starlet	96-99	5.69	22.56	27.87	5.31
Toyota	Echo	99-05	4.60	20.89	25.20	4.31
Toyota	Yaris	05-10	3.29	15.53	21.53	6.00
Volkswagen	Polo	96-00	3.30	10.33	23.03	12.70
Volkswagen	Polo	02-10	3.25	11.19	28.22	17.03

APPENDIX 5

AGGRESSIVITY INJURY RISK AGGRESSIVITY INJURY SEVERITY AND RATINGS OF VEHICLE AGGRESSIVITY (with 95% and 90% CONFIDENCE LIMITS), TOWARDS OTHER VEHICLE DRIVERS AND UNPROTECTED ROAD USERS

AGGRESSIVITY INJURY RISK RATINGS

New South Wales Data (1987-2010), South Australia Data (1995-2010), Queensland Data (1991-2009) and Western Australia Data (1991-2010)

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
ALL VEHICLE AVERAGE			**15.97**			
Compact Sports Utility Vehicles			**14.88**	**14.44**	**15.33**	**0.89**
Daihatsu	Feroza / Rocky	89-97	19.74	16.67	23.23	6.57
Daihatsu	Rocky / Rugger	85-98	17.46	13.16	22.79	9.64
Daihatsu	Terios	97-05	16.88	13.54	20.85	7.31
Holden	Cruze	02-06	14.25	11.13	18.07	6.94
Hyundai	Tucson	04-10	12.65	8.68	18.07	9.39
Mitsubishi	Outlander	03-06	15.76	11.75	20.82	9.07
Mitsubishi / Peugeot	Outlander / 4007	06-10	18.12	13.05	24.59	11.54
Kia	Sportage	98-03	20.22	16.91	23.98	7.07
Kia	Sorento	03-09	18.30	13.02	25.11	12.09
Ford / Mazda	Escape / Tribute	01-06	17.81	15.35	20.56	5.20
Mazda	CX-7	06-10	19.30	13.35	27.07	13.73
Nissan	X-Trail	01-07	15.26	13.40	17.33	3.94
Lada	Niva	84-99	17.51	13.30	22.71	9.42
Honda	CR-V	97-01	15.52	13.71	17.51	3.80
Honda	CR-V	02-06	14.65	12.69	16.85	4.16
Honda	HR-V	99-02	15.85	12.28	20.22	7.94
Honda	CR-V	07-10	15.01	10.88	20.37	9.49
Land Rover	Freelander	98-06	21.08	15.05	28.71	13.67
Subaru	Forester	08-10	18.04	12.29	25.68	13.39
Subaru	Forester	97-02	14.51	12.43	16.87	4.44
Subaru	Forester	02-08	14.91	12.80	17.31	4.50
Suzuki	Vitara / Escudo	88-98	17.09	15.52	18.78	3.27
Suzuki	Grand Vitara	99-05	18.02	14.67	21.94	7.26
Holden / Suzuki	Drover / Sierra / Samurai / SJ410 / SJ413	82-99	16.05	14.55	17.67	3.13
Suzuki	Jimny	98-10	18.74	14.01	24.60	10.59
Suzuki	Grand Vitara	05-08	14.49	10.14	20.28	10.14
Toyota	RAV4	94-00	16.73	15.10	18.51	3.42
Toyota	RAV4	01-06	17.28	15.44	19.29	3.85
Toyota	RAV4	06-10	13.56	11.13	16.43	5.31
Medium Sports Utility Vehicles			**17.96**	**17.40**	**18.53**	**1.13**
Daewoo / Ssangong	Musso	98-02	12.22	8.15	17.91	9.76
Ford	Territory SX/SY	04-10	15.51	13.41	17.88	4.47
Holden / Isuzu	Jackaroo / Bighorn	82-91	21.72	18.45	25.38	6.93
Holden / Isuzu	Jackaroo / Bighorn	92-97	19.67	16.56	23.21	6.65
Holden / Isuzu	Jackaroo / Bighorn	98-02	21.71	18.46	25.35	6.89
Holden	Frontera / Mu	95-03	18.08	13.97	23.08	9.11
Holden	Adventra	03-06	14.33	9.88	20.33	10.45
Holden	Captiva CG	06-10	16.83	13.05	21.43	8.38

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Hyundai	Santa Fe	00-06	20.78	16.13	26.34	10.20
Hyundai	Terracan	01-07	20.16	14.17	27.86	13.69
Mitsubishi	Pajero	82-90	20.67	18.39	23.16	4.76
Mitsubishi	Pajero	92-99	20.16	18.56	21.85	3.29
Mitsubishi	Pajero NM / NP / NS	00-06	18.51	15.96	21.35	5.39
Mitsubishi	Challenger	98-06	21.22	17.04	26.10	9.07
Jeep	Cherokee XJ	96-00	19.97	17.59	22.57	4.97
Jeep	Wrangler	96-04	24.73	20.09	30.04	9.95
Jeep	Cherokee KJ	01-07	19.51	14.96	25.04	10.08
Land Rover	Defender	92-10	19.36	14.51	25.35	10.83
Nissan	Pathfinder / Terrano	88-94	23.11	19.06	27.72	8.66
Nissan	Pathfinder / Terrano / Regulus	95-05	19.05	16.11	22.38	6.28
Nissan	Pathfinder	05-10	16.36	11.29	23.11	11.82
Toyota	Kluger / Highlander	03-07	17.61	14.29	21.51	7.23
Toyota	Landcruiser Prado	96-03	23.57	20.64	26.77	6.13
Toyota	Landcruiser Prado	03-09	20.32	18.27	22.53	4.26
Lexus	RX330	03-05	12.75	7.80	20.16	12.36
Toyota	Kluger / Highlander	07-10	15.72	11.53	21.08	9.55
Large Sports Utility Vehicles			**19.75**	**19.33**	**20.18**	**0.85**
BMW	X5	01-08	14.29	10.96	18.43	7.47
Ford	Bronco	82-87	27.28	19.67	36.49	16.82
Ford	Explorer	00-01	20.57	16.01	26.01	10.00
Ford	Explorer	01-05	17.09	12.12	23.55	11.43
Jeep	Grand Cherokee ZG	96-99	21.03	16.19	26.85	10.66
Jeep	Grand Cherokee WG	99-05	16.05	12.10	20.99	8.89
Land Rover	Discovery	91-02	18.99	16.18	22.16	5.97
Mercedes Benz	M-Class W163	98-05	23.03	17.84	29.20	11.36
Nissan	Patrol / Safari	82-87	23.73	21.02	26.68	5.66
Nissan / Ford	Patrol / Maverick / Safari	88-97	21.27	20.17	22.42	2.25
Nissan	Patrol / Safari	98-10	21.21	19.78	22.71	2.93
Land Rover	Range Rover	82-94	23.71	20.09	27.76	7.67
Land Rover	Range Rover	95-02	14.43	9.11	22.12	13.01
Toyota	Landcruiser	82-89	22.65	21.46	23.88	2.42
Toyota	Landcruiser	90-97	22.73	21.79	23.70	1.91
Toyota	Landcruiser	98-07	20.47	19.25	21.74	2.50
Commercial - Vans			**19.33**	**18.79**	**19.88**	**1.09**
Daihatsu	Handivan	82-90	9.32	6.78	12.69	5.91
Ford	Falcon Panel Van	82-95	17.30	15.68	19.04	3.37
Ford	Falcon Panel Van	96-99	17.40	13.62	21.96	8.34
Ford	Transit	95-00	22.62	19.69	25.84	6.15
Ford	Transit	01-07	19.57	16.40	23.19	6.79
Holden	Shuttle / WFR Van	82-87	21.63	16.89	27.26	10.37
Kia	Pregio	02-06	23.35	19.81	27.30	7.49
Mercedes Benz	MB100 / MB140	99-04	19.36	14.88	24.80	9.92
Mercedes Benz	Vito	99-04	23.66	19.31	28.65	9.34
Mercedes Benz	Sprinter	98-06	21.17	17.13	25.87	8.73
Honda	Acty	83-86	13.52	8.49	20.87	12.38
Holden / Suzuki	Scurry / Carry	82-00	13.17	9.03	18.81	9.77
Toyota	Hiace/Liteace	82-86	21.75	19.88	23.74	3.86
Toyota	Hiace/Liteace	87-89	22.09	19.69	24.69	4.99

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Toyota	Hiace/Liteace	90-95	24.14	22.59	25.75	3.16
Toyota	Hiace/Liteace	96-04	22.07	20.67	23.53	2.86
Toyota	Hiace	05-10	20.17	16.94	23.84	6.90
Volkswagen	Caravelle / Transporter	88-94	22.12	16.55	28.93	12.38
Volkswagen	Caravelle / Transporter	95-04	25.43	21.92	29.30	7.38
Volkswagen	Caddy	05-10	17.47	11.70	25.28	13.58
Commercial - Utes			**17.37**	**17.10**	**17.65**	**0.55**
Ford / Nissan	Falcon Ute / XFN Ute	82-95	19.70	18.64	20.81	2.17
Ford	Falcon Ute	96-99	20.03	18.09	22.13	4.03
Ford	Falcon Ute AU	00-02	20.74	18.91	22.70	3.79
Ford	Falcon Ute BA/BF	03-08	18.54	16.74	20.48	3.74
Ford	Ford F-Series	82-92	22.80	19.80	26.10	6.30
Ford	F-Series	01-06	24.32	18.80	30.83	12.02
Holden	Commodore Ute VG/VP	90-93	16.15	13.91	18.66	4.74
Holden / Isuzu	Rodeo / Pickup	82-85	17.06	13.46	21.39	7.93
Holden / Isuzu	Rodeo / Pickup	86-88	18.95	14.71	24.08	9.37
Holden / Isuzu	Rodeo / Pickup	89-95	19.74	18.56	20.97	2.41
Holden	Rodeo	96-98	19.01	17.36	20.78	3.42
Holden	Rodeo	99-02	19.62	17.98	21.37	3.39
Holden	WB Series	82-85	19.37	17.02	21.96	4.94
Holden	Commodore Ute VR/VS	94-00	18.05	16.96	19.19	2.23
Holden	Commodore VU Ute	00-02	17.78	15.77	19.99	4.22
Holden	Commodore VY/VZ Ute	02-07	17.28	15.94	18.70	2.76
Holden	Rodeo	03-08	21.51	20.02	23.08	3.06
Holden	Commodore VE Ute	07-10	16.01	11.75	21.43	9.68
Holden	Colorado RC	08-10	18.99	12.71	27.42	14.71
Mitsubishi	Triton MK	96-06	18.61	16.42	21.02	4.61
Mitsubishi	Triton ML / MN	06-10	15.24	11.84	19.40	7.56
Kia	Ceres	92-00	13.69	11.45	16.30	4.85
Ford / Mazda	Courier / B-Series / Bounty	98-02	17.64	15.74	19.72	3.98
Ford / Mazda	Courier / Bravo / Bounty	03-06	17.91	15.73	20.32	4.59
Ford / Mazda	Ranger / BT-50	06-10	16.26	13.66	19.25	5.59
Nissan	720 Ute	82-85	18.91	16.29	21.85	5.56
Nissan	Navara	86-91	19.59	17.96	21.32	3.36
Nissan	Navara	92-96	20.80	18.63	23.15	4.51
Nissan	Navara	97-05	18.99	17.34	20.76	3.41
Nissan	Navara	05-10	16.97	14.10	20.29	6.19
Subaru	Brumby	82-92	15.74	13.22	18.63	5.42
Suzuki	Mighty Boy	85-88	10.56	6.88	15.86	8.98
Toyota	4Runner/Hilux	82-85	20.47	18.88	22.16	3.28
Toyota	4Runner/Hilux	86-88	19.62	17.96	21.40	3.44
Toyota	4Runner/Hilux	89-97	19.69	18.93	20.47	1.54
Toyota	Hilux	98-02	19.35	18.20	20.57	2.37
Toyota	Hilux	03-04	18.57	16.67	20.63	3.95
Toyota	Hilux	05-10	17.57	16.19	19.03	2.84
Large Cars			**15.74**	**15.58**	**15.91**	**0.32**
BMW	7 Series E23	82-86	17.88	11.82	26.12	14.30
BMW	7 Series E32	87-94	18.52	12.66	26.27	13.61
BMW	7 Series E38	95-01	24.17	17.23	32.80	15.57
Ford	Falcon XE/XF	82-88	18.08	17.56	18.62	1.07

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Ford	Fairlane Z & LTD F	82-87	17.47	16.14	18.88	2.74
Ford	Falcon EA / Falcon EB Series I	88-Mar 92	17.71	17.19	18.24	1.05
Ford	Falcon EB Series II / Falcon ED	Apr 92-94	18.09	17.37	18.84	1.47
Ford	Fairlane N & LTD D	88-94	16.20	14.81	17.70	2.89
Ford	Fairlane N & LTD D	95-98	18.80	16.63	21.20	4.57
Ford	Fairlane & LTD AU	99-02	16.51	13.98	19.40	5.42
Ford	Fairlane & LTD BA/BF	03-07	14.08	11.02	17.81	6.79
Ford	Falcon FG	08-10	13.52	10.68	16.96	6.28
Ford	Falcon EF/EL	94-98	18.31	17.81	18.82	1.01
Ford	Falcon AU	98-02	18.20	17.57	18.86	1.28
Ford	Taurus	96-98	18.47	14.47	23.27	8.81
Ford	Falcon BA/BF	02-08	17.41	16.68	18.17	1.49
Holden / Toyota	Commodore VN/VP / Lexcen	89-93	16.33	15.89	16.79	0.90
Holden	Statesman/Caprice WB	82-85	21.34	14.20	30.79	16.59
Holden	Stateman/Caprice VQ	90-93	15.93	12.24	20.48	8.23
Holden	Stateman/Caprice VR/VS	94-98	15.26	13.88	16.75	2.86
Holden / Toyota	Commodore VR/VS / Lexcen	93-97	16.11	15.68	16.56	0.88
Holden	Commodore VT/VX	97-02	18.32	17.82	18.83	1.01
Holden	Statesman/Caprice WH	99-03	19.37	16.84	22.18	5.35
Holden	Commodore VY/VZ	02-07	17.23	16.45	18.04	1.58
Holden	Monaro	01-05	18.95	15.64	22.77	7.13
Holden	Statesman/Caprice WK/WL	03-06	16.70	13.37	20.67	7.29
Holden	Commodore VB-VL	82-88	17.30	16.77	17.83	1.06
Holden	Commodore VE	06-10	16.81	15.52	18.19	2.67
Hyundai	Sonata	89-97	16.53	15.05	18.12	3.07
Hyundai	Grandeaur / XG	99-00	21.83	16.82	27.84	11.02
Mitsubishi	Magna TM/TN/TP / Sigma / V3000	85-90	16.69	16.04	17.35	1.31
Mitsubishi	Magna TE/TF/TH/TJ / Verada KE/KF/KH/KJ / Diamante	96-03	17.49	16.81	18.19	1.38
Mitsubishi	Magna TR/TS / Verada KR/KS / V3000 / Diamante	91-96	17.71	17.09	18.34	1.25
Mitsubishi	Magna TL/TW / Verada KL/KW	03-05	15.88	13.93	18.04	4.11
Mitsubishi	380	05-08	14.41	11.60	17.77	6.17
Jaguar	XJ6	82-86	20.44	14.76	27.61	12.85
Jaguar	XJ6	87-94	22.27	17.54	27.85	10.31
Jaguar	S-Type	99-08	21.71	14.94	30.44	15.50
Mazda	929 / Luce	82-90	17.75	15.93	19.73	3.81
Mazda	929 / Sentia / Efini MS-9	92-96	15.75	10.63	22.71	12.08
Mercedes Benz	E-Class W123	82-85	17.85	13.85	22.70	8.85
Mercedes Benz	E-Class W124	86-94	14.11	11.78	16.83	5.05
Mercedes Benz	E-Class W210	96-02	16.59	13.43	20.33	6.90
Mercedes Benz	S-Class W126	82-92	15.23	12.43	18.53	6.11
Mercedes Benz	S-Class C140	93-98	17.73	12.01	25.39	13.38
Mercedes Benz	S-Class W220	99-06	20.81	14.06	29.69	15.64
Mercedes Benz	E-Class W211	02-09	15.12	10.81	20.74	9.92
Nissan	Skyline	83-88	18.61	17.19	20.13	2.93
Nissan	300ZX / Fairlady Z	90-95	20.05	15.59	25.40	9.81
Nissan	Maxima	90-94	17.14	14.11	20.67	6.56
Nissan	Maxima / Cefiro	95-99	17.78	15.25	20.63	5.38
Nissan	Maxima	00-02	15.95	12.25	20.49	8.24
Nissan	Maxima	06-09	13.96	10.11	18.95	8.84
Honda	Legend	86-95	20.58	17.13	24.52	7.39
Saab	9-5	98-05	14.42	9.91	20.51	10.60

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Toyota	Camry	98-02	17.36	16.66	18.08	1.42
Toyota	Crown / Cressida / Mark II	82-85	17.81	15.52	20.37	4.85
Toyota	Crown / Cressida / Mark II	86-88	15.07	12.08	18.64	6.56
Toyota	Cressida / Mark II	89-93	14.85	12.96	16.97	4.01
Toyota	Supra	82-90	23.62	18.84	29.18	10.34
Lexus	ES300 / Windom	92-01	19.27	15.47	23.74	8.27
Lexus	LS400 / Celsior	90-00	14.21	9.32	21.05	11.73
Toyota	Avalon	00-05	18.60	16.94	20.38	3.45
Toyota	Camry	02-06	16.75	15.71	17.84	2.13
Toyota	Aurion	06-10	15.28	12.81	18.13	5.32
Toyota	Camry	06-10	13.44	11.68	15.43	3.75
Volvo	850/S70/V70/C70	92-99	18.40	16.22	20.80	4.58
Volvo	700/900 Series	84-92	16.74	14.61	19.10	4.49
Medium Cars			**14.43**	**14.24**	**14.62**	**0.38**
Alfa Romeo	156	99-06	10.83	7.72	14.98	7.26
Alfa Romeo	147 / GT	01-10	8.99	5.35	14.72	9.36
Audi	A4	95-01	15.44	12.53	18.89	6.36
Audi	A4	01-08	13.62	10.74	17.13	6.39
BMW	Z3 E36	97-03	16.80	10.95	24.91	13.96
BMW	5 Series E60 / E61	03-10	16.30	11.07	23.35	12.28
BMW	3 Series E90 /E91 /E92 /E93	05-10	13.56	10.36	17.55	7.19
BMW	3 Series E30	82-91	14.68	13.07	16.44	3.37
BMW	3 Series E36	92-98	13.55	12.35	14.84	2.49
BMW	3 Series E46	99-06	14.54	12.99	16.24	3.25
BMW	5 Series E28	82-88	17.45	14.12	21.38	7.27
BMW	5 Series E34	89-95	15.14	12.12	18.77	6.65
BMW	5 Series E39	96-03	16.06	13.17	19.45	6.27
Chrysler	PT Cruiser	00-10	10.51	6.16	17.39	11.23
Daewoo	Espero	95-97	17.47	14.57	20.80	6.23
Daewoo	Leganza	97-02	17.43	14.46	20.87	6.41
Ford	Cortina	82-82	17.17	15.44	19.05	3.61
Ford	Mondeo	95-01	15.83	14.05	17.80	3.75
Ford	Probe	94-98	16.41	11.36	23.10	11.74
Ford	Cougar	99-03	12.19	9.51	15.51	6.00
Holden	Calibra	94-97	17.32	13.15	22.47	9.32
Holden	Camira	82-89	17.33	16.44	18.26	1.83
Holden	Vectra	97-03	15.81	14.39	17.35	2.96
Holden	Vectra ZC	03-05	16.60	12.69	21.43	8.74
Hyundai	Sonata	98-01	16.58	14.00	19.52	5.52
Hyundai	Sonata EF	02-05	15.72	11.45	21.20	9.75
Mitsubishi	Sigma / Galant / Sapporo / Lambda	82-84	15.94	15.08	16.84	1.76
Mitsubishi	Galant	95-96	15.71	13.43	18.29	4.85
Jaguar	X-Type	02-10	15.91	10.23	23.91	13.68
Ford / Mazda	Telstar / 626 / MX6 / Capella	83-86	15.50	14.47	16.58	2.11
Ford / Mazda	Telstar / 626 / MX6 / Capella	88-91	14.75	13.64	15.94	2.29
Ford / Mazda	Telstar / 626 / MX6 / Capella / Cronos	92-97	13.99	12.91	15.14	2.23
Mazda	626	98-02	13.70	11.97	15.63	3.66
Mazda	RX7	82-85	13.95	9.97	19.18	9.21
Mazda	RX7	86-91	18.57	13.51	24.98	11.48
Mazda	Eunos 500	93-99	17.02	12.64	22.52	9.88

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Mazda	6	02-07	14.00	12.26	15.95	3.70
Mazda	RX-8	03-10	20.02	14.12	27.59	13.46
Mercedes Benz	C-Class W201	87-93	14.55	11.68	17.98	6.30
Mercedes Benz	C-Class W202	95-00	10.58	8.68	12.83	4.14
Mercedes Benz	CLK C208	97-03	12.05	7.45	18.92	11.47
Mercedes Benz	C-Class W203	00-07	13.85	11.40	16.74	5.34
Mercedes Benz	CLK C209	03-09	14.84	9.95	21.56	11.61
Nissan	Pintara	86-88	15.93	14.66	17.29	2.63
Nissan / Ford	Pintara / Corsair / Bluebird	89-92	16.40	15.41	17.45	2.04
Nissan	Bluebird	82-86	15.23	14.25	16.26	2.01
Nissan	Bluebird	93-97	15.20	13.20	17.43	4.23
Nissan	200SX / Silvia	94-02	15.16	12.52	18.23	5.71
Nissan	350Z	03-09	18.74	12.44	27.24	14.80
Honda	Accord Euro	03-08	13.35	11.40	15.59	4.18
Honda	Accord	03-07	14.96	12.33	18.03	5.70
Honda	Accord	82-85	14.15	12.00	16.62	4.62
Honda	Accord	86-90	14.99	13.12	17.08	3.96
Honda	Accord	91-93	17.14	14.91	19.62	4.70
Honda	Accord	94-98	17.21	15.67	18.88	3.21
Honda	Accord	99-02	17.64	14.43	21.40	6.97
Honda	Prelude	82-82	11.78	6.27	21.06	14.79
Honda	Prelude	83-91	14.67	13.06	16.43	3.37
Honda	Prelude	92-96	13.90	11.74	16.38	4.63
Honda	Prelude	97-02	15.43	12.33	19.14	6.81
Peugeot	405	89-97	12.81	9.49	17.08	7.59
Peugeot	505	82-93	14.16	10.52	18.79	8.26
Peugeot	406	96-04	7.19	3.89	12.90	9.01
Renault	Feugo	82-87	13.48	8.27	21.22	12.95
Saab	900 Series	82-92	13.51	10.76	16.83	6.07
Saab	900/9-3	94-02	14.78	12.49	17.41	4.92
Saab	9000	86-97	14.82	12.18	17.93	5.75
Saab	9-3	03-10	14.83	9.89	21.64	11.74
Subaru	1800 / Leone / Omega / 4WD Wagon	82-93	14.96	13.72	16.29	2.57
Subaru	Liberty / Legacy	89-93	16.31	15.05	17.65	2.61
Subaru	Liberty / Legacy / Outback	94-98	15.37	13.69	17.20	3.51
Subaru	Liberty / Legacy / Outback	99-03	15.31	13.72	17.06	3.34
Subaru	Liberty / Legacy / Outback	03-09	14.45	12.35	16.85	4.50
Toyota	Corona	82-88	15.58	14.87	16.31	1.44
Toyota	Camry	83-86	17.29	15.60	19.12	3.53
Holden / Toyota	Apollo JK/JL / Camry / Vista	88-92	17.56	17.00	18.14	1.14
Holden / Toyota	Apollo JM/JP / Camry / Sceptor	93-97	16.75	16.16	17.35	1.19
Toyota	Celica	81-85	19.36	17.30	21.60	4.30
Toyota	Celica	86-89	18.03	15.96	20.30	4.33
Toyota	Celica	90-93	18.19	16.26	20.29	4.03
Toyota	Celica	94-99	16.33	14.09	18.84	4.75
Toyota	Celica	00-05	14.11	10.90	18.07	7.17
Lexus	IS200 / IS300	99-04	15.76	12.63	19.48	6.85
Lexus	IS350 / IS250 / IS F	05-10	15.13	10.37	21.56	11.19
Volvo	200 Series	82-93	15.56	13.79	17.50	3.71
Volvo	S60	01-09	19.33	13.22	27.37	14.15
Volkswagen	Passat	98-06	14.17	10.57	18.74	8.16

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
People Movers			**17.13**	**16.60**	**17.68**	**1.07**
Chrysler	Voyager	97-01	22.43	18.06	27.50	9.43
Holden	Zafira TT	01-05	13.40	9.53	18.52	8.98
Mitsubishi	Nimbus / Chariot / Spacewagon	85-91	13.53	9.19	19.47	10.27
Mitsubishi	Nimbus / Chariot	92-98	14.10	11.35	17.38	6.03
Mitsubishi	Nimbus	99-03	11.36	7.60	16.64	9.04
Mitsubishi	Starwagon / L300	83-86	22.40	20.08	24.91	4.84
Mitsubishi	Starwagon / Delica Starwagon	87-93	19.99	18.59	21.46	2.87
Mitsubishi	Starwagon / Delica Spacegear	95-98	22.88	20.44	25.53	5.09
Mitsubishi	Starwagon / Delica Spacegear	98-03	18.58	16.29	21.12	4.82
Kia	Carnival	99-06	21.40	18.50	24.61	6.10
Kia	Carnival	06-10	18.40	13.44	24.67	11.23
Mazda	MPV	94-99	22.32	17.37	28.20	10.83
Mazda	MPV	00-06	15.26	10.09	22.41	12.32
Nissan	Prairie	84-86	14.15	9.55	20.48	10.94
Nissan	Serena	92-95	14.31	8.72	22.61	13.89
Honda	Odyssey	95-00	18.42	14.64	22.92	8.28
Honda	Odyssey	00-02	17.89	12.67	24.65	11.98
Honda	Odyssey	04-09	14.11	10.34	18.95	8.62
Toyota	Tarago	83-89	17.79	16.25	19.43	3.18
Toyota	Tarago / Previa / Estima	91-99	18.14	16.50	19.91	3.41
Toyota	Tarago / Previa / Estima	00-06	16.08	13.54	18.99	5.46
Toyota	Tarago	06-10	19.03	13.93	25.44	11.52
Small Cars			**12.87**	**12.72**	**13.02**	**0.30**
Alfa Romeo	33	83-92	7.73	4.99	11.80	6.81
Alfa Romeo	75	86-92	21.84	14.79	31.04	16.25
Audi	A3/S3	97-04	15.07	10.92	20.44	9.52
Mini	Mini Cooper	02-10	13.62	9.46	19.21	9.75
BMW	1 Series E81 / E82 / E87 / E88	04-10	14.99	10.31	21.27	10.96
Chrysler	Neon	96-99	15.69	12.18	19.98	7.80
Daihatsu	Applause	89-99	14.65	13.13	16.33	3.20
Daewoo	1.5i	94-95	19.53	13.68	27.11	13.43
Daewoo	Cielo	95-97	13.84	12.59	15.19	2.59
Daewoo	Nubira	97-03	15.08	13.64	16.64	2.99
Daewoo	Lanos	97-03	16.42	15.20	17.72	2.52
Daewoo	Lacetti	03-04	16.31	10.79	23.89	13.10
Ford	Laser	91-94	14.30	13.58	15.05	1.47
Ford	Laser	95-97	13.23	12.09	14.45	2.36
Ford	Escort	82-82	16.68	14.59	19.01	4.42
Ford	Capri	89-94	16.73	14.55	19.17	4.61
Ford	Focus LR	02-05	15.74	13.71	18.00	4.29
Ford	Focus LS / LT	05-09	13.28	11.34	15.50	4.16
Fiat	Regata	84-88	13.03	7.35	22.05	14.70
Holden	Gemini	82-84	13.84	12.59	15.19	2.60
Holden	Gemini RB	86-87	13.39	10.95	16.28	5.32
Holden	Astra TR	96-98	13.52	11.36	16.01	4.65
Holden	Astra TS	98-06	13.72	12.93	14.55	1.62
Holden	Astra AH	04-09	14.86	13.10	16.82	3.72
Holden	Viva JF	05-09	12.60	10.27	15.35	5.08
Hyundai	Excel	86-90	16.66	14.97	18.50	3.53

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Hyundai	Excel	90-94	14.69	13.81	15.61	1.80
Hyundai	Excel / Accent	95-00	14.17	13.63	14.73	1.10
Hyundai	Elantra	00-06	15.56	14.03	17.24	3.21
Hyundai	Accent	06-10	12.82	8.52	18.83	10.31
Hyundai	i30	07-10	11.36	7.71	16.43	8.72
Hyundai	S Coupe	90-96	13.13	10.96	15.66	4.69
Hyundai	Lantra	91-95	15.83	14.01	17.83	3.81
Hyundai	Lantra	96-00	15.59	14.34	16.93	2.59
Hyundai	Coupe	96-00	17.20	14.32	20.51	6.20
Hyundai	Accent	00-06	16.15	14.97	17.41	2.45
Mitsubishi	Lancer / Mirage CA	89-90	13.67	12.48	14.96	2.49
Mitsubishi	Lancer / Mirage CB	91-92	16.02	13.45	18.97	5.52
Mitsubishi	Lancer / Mirage CC	93-95	13.02	12.07	14.05	1.98
Mitsubishi	Lancer / Mirage CE	96-03	13.91	13.32	14.53	1.21
Mitsubishi	Cordia	83-87	17.63	15.00	20.60	5.60
Mitsubishi	Lancer CH	03-07	13.79	12.32	15.40	3.08
Mitsubishi	Lancer CJ	08-10	14.55	9.35	21.93	12.58
Kia	Rio	00-05	13.80	12.30	15.46	3.16
Kia	Spectra	01-04	15.44	11.16	20.98	9.81
Kia	Cerato LD	04-08	13.42	10.47	17.03	6.56
Kia	Rio JB	05-10	11.06	8.83	13.77	4.94
Ford / Mazda	Laser / 323 / Familia	82-88	14.56	14.07	15.08	1.01
Mazda	323 / Familia / Lantis	90-93	14.00	12.65	15.47	2.82
Mazda	323 / Familia / Lantis	95-98	12.97	11.88	14.15	2.27
Ford / Mazda	Laser / 323	99-03	13.30	12.36	14.29	1.93
Mazda	MX5 / Eunos Roadster	89-97	16.07	11.85	21.43	9.58
Mazda	MX5 / Eunos Roadster	98-05	9.68	6.71	13.77	7.06
Mazda	Eunos 30X / Presso / MX-3 / Autozam AZ-3	90-97	13.23	9.98	17.33	7.35
Mazda	3 / Axela	03-09	13.42	12.32	14.60	2.27
Mercedes Benz	A-Class W168	98-04	12.68	9.01	17.56	8.54
Holden / Nissan	Astra / Pulsar / Langley	84-86	14.12	13.13	15.18	2.05
Holden / Nissan	Astra / Pulsar / Vector / Sentra	88-90	15.00	14.21	15.82	1.61
Nissan	Pulsar / Vector / Sentra	92-95	14.69	13.66	15.78	2.12
Nissan	Pulsar / Vector / Sentra	96-99	14.21	13.40	15.07	1.68
Nissan	Stanza	82-83	17.64	13.04	23.43	10.39
Nissan	Gazelle / Silvia	84-86	13.16	8.89	19.05	10.15
Nissan	Exa	83-86	21.25	16.16	27.43	11.28
Nissan	Exa	87-91	18.77	12.66	26.92	14.26
Nissan	NX/NX-R	91-96	21.46	18.14	25.21	7.07
Nissan	Pulsar	00-05	12.54	11.68	13.46	1.78
Nissan	Tiida	06-10	9.73	6.66	14.01	7.35
Honda	Civic	82-83	11.07	7.88	15.33	7.45
Honda	Civic / Ballade / Shuttle	84-87	15.59	13.64	17.76	4.12
Honda	Civic / Shuttle	88-91	14.59	13.24	16.06	2.82
Honda	Civic	92-95	14.72	13.51	16.03	2.52
Honda	Civic	96-00	15.89	14.72	17.15	2.43
Honda	CRX	87-91	14.78	9.92	21.45	11.53
Honda	CRX	92-98	17.58	11.77	25.43	13.66
Honda	Civic	01-05	13.56	11.63	15.75	4.11
Honda	Civic	06-10	11.26	9.17	13.75	4.58
Honda	Integra	86-88	14.24	10.77	18.58	7.81
Honda	Integra	90-92	19.01	15.40	23.24	7.84
Honda	Integra	93-01	15.88	13.22	18.96	5.74

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Honda	Integra	02-06	15.92	11.51	21.61	10.10
Honda	Concerto	89-93	12.31	9.10	16.45	7.34
Peugeot	306	94-01	13.31	10.91	16.15	5.25
Peugeot	307	01-09	11.88	8.94	15.61	6.67
Proton	Wira	95-96	13.53	11.56	15.77	4.21
Renault	19	91-96	14.98	10.20	21.47	11.27
Renault	Scenic	01-04	13.17	8.28	20.31	12.04
Rover	Quintet	82-86	12.84	7.54	21.01	13.47
MG	MGF / MG TF	99-05	9.09	5.30	15.16	9.86
Subaru	Impreza	93-00	14.96	13.67	16.34	2.68
Subaru	Impreza	01-07	14.06	12.53	15.74	3.21
Subaru	Impreza	07-10	10.50	6.76	15.96	9.20
Suzuki	Baleno / Cultus Crescent	95-02	11.56	9.92	13.44	3.53
Suzuki	Liana	01-07	12.58	9.31	16.79	7.47
Toyota	Corolla	82-84	13.37	12.47	14.33	1.85
Toyota	Corolla	86-88	14.01	13.29	14.75	1.46
Toyota / Holden	Corolla / Nova	89-93	14.52	13.98	15.08	1.10
Toyota / Holden	Corolla / Nova	94-97	13.12	12.52	13.74	1.23
Toyota	Corolla / Allex	98-01	13.89	12.92	14.91	1.99
Toyota	Corolla	02-07	13.81	13.07	14.59	1.52
Toyota	Corolla	07-10	13.66	11.86	15.69	3.83
Toyota	Tercel	83-88	17.44	13.25	22.62	9.36
Toyota	MR2	87-90	13.61	8.57	20.94	12.37
Toyota	MR2	91-00	15.20	9.18	24.12	14.94
Toyota	Paseo / Cynos	91-99	13.64	11.64	15.91	4.27
Toyota	Corolla 4WD Wagon	92-96	21.07	17.06	25.74	8.68
Toyota	Prius II	03-09	10.37	6.99	15.12	8.13
Volvo	S40/V40	97-04	16.34	13.33	19.88	6.54
Volkswagen	Golf	82-94	15.11	10.13	21.93	11.80
Volkswagen	Golf	95-98	13.67	11.26	16.49	5.23
Volkswagen	Golf / Bora	99-04	14.87	13.00	16.95	3.95
Volkswagen	New Beetle	00-10	15.85	11.71	21.11	9.41
Volkswagen	Golf / Jetta	04-10	13.28	10.94	16.04	5.10
Light Cars			**11.88**	**11.66**	**12.10**	**0.44**
Daihatsu	Charade	82-86	13.34	11.21	15.79	4.58
Daihatsu	Charade	88-92	11.93	10.95	12.98	2.03
Daihatsu	Charade	93-00	13.68	12.65	14.78	2.13
Daihatsu	Pyzar	97-01	10.87	7.46	15.58	8.12
Daihatsu	Sirion / Storia	98-04	10.59	8.85	12.63	3.78
Daihatsu	Mira	90-96	12.52	9.78	15.89	6.11
Daewoo	Matiz	99-04	12.18	9.96	14.82	4.85
Daewoo	Kalos	03-04	12.88	9.54	17.16	7.62
Ford	Festiva WD/WH/WF	94-01	14.64	13.94	15.38	1.44
Ford	Ka	99-02	11.85	8.85	15.70	6.85
Holden	Barina XC	01-06	15.03	13.51	16.68	3.18
Holden	Barina SB	95-00	13.42	12.48	14.41	1.93
Holden	Barina TK	05-10	12.58	10.72	14.71	3.99
Hyundai	Getz / TB	02-10	14.61	13.29	16.04	2.74
Mitsubishi	Mirage / Colt	82-88	14.82	13.92	15.77	1.85
Mitsubishi	Colt	04-10	9.91	6.46	14.90	8.44
Ford / Mazda	Festiva WA / 121	87-90	13.74	12.74	14.81	2.06
Mazda	121 / Autozam Review	94-96	11.71	10.48	13.07	2.59

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Mazda	121 Metro / Demio	97-02	11.77	10.46	13.23	2.77
Mazda	2	02-07	11.89	9.73	14.46	4.73
Mazda	2	07-10	12.57	9.57	16.34	6.77
Nissan	Micra	95-97	13.50	11.09	16.33	5.24
Honda	Jazz / Fit	02-08	11.74	9.98	13.77	3.78
Honda	City	83-86	10.65	6.76	16.38	9.62
Peugeot	205	87-94	11.65	6.90	19.00	12.10
Peugeot	206	99-07	12.89	10.01	16.45	6.44
Renault	Clio	01-08	13.84	8.59	21.54	12.95
Subaru	Sherpa / Fiori / 700 / Rex	89-92	11.39	8.53	15.07	6.54
Suzuki	Swift	82-85	14.77	8.73	23.87	15.14
Holden / Suzuki	Barina / Swift / Cultus	86-88	13.25	11.83	14.81	2.98
Holden / Suzuki	Barina / Swift / Cultus	89-99	12.37	11.74	13.03	1.28
Suzuki	Hatch / Alto	82-84	13.18	10.15	16.95	6.81
Suzuki	Alto	85-00	16.01	10.75	23.18	12.43
Suzuki	Ignis	00-02	12.76	9.76	16.51	6.75
Suzuki	Swift	05-10	13.42	11.64	15.41	3.77
Toyota	Starlet	96-99	12.58	11.45	13.80	2.35
Toyota	Echo	99-05	11.82	10.90	12.82	1.92
Toyota	Yaris	05-10	11.71	10.34	13.23	2.89
Volkswagen	Polo	96-00	11.21	8.35	14.88	6.54
Volkswagen	Polo	02-10	16.16	12.03	21.38	9.35

AGGRESSIVITY INJURY SEVERITY RATINGS

New South Wales and Victoria Data (1987-2010), South Australia Data (1995-2010), Queensland Data (1991-2009), Western Australia and New Zealand Data (1991-2010)

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
ALL VEHICLE AVERAGE			**22.55**			
Compact Sports Utility Vehicles			**21.73**	**20.77**	**22.72**	**1.95**
Daihatsu	Feroza / Rocky	89-97	21.77	15.92	29.04	13.12
Daihatsu	Rocky / Rugger	85-98	28.82	19.88	39.79	19.91
Daihatsu	Terios	97-05	20.16	13.87	28.37	14.50
Holden	Cruze	02-06	22.88	15.05	33.20	18.15
Hyundai	Tucson	04-10	19.96	10.06	35.73	25.66
Mitsubishi	Outlander	03-06	25.91	16.70	37.89	21.18
Mitsubishi / Peugeot	Outlander / 4007	06-10	14.62	7.73	25.94	18.21
Kia	Sportage	98-03	19.39	14.21	25.88	11.67
Kia	Sorento	03-09	18.61	9.52	33.19	23.67
Ford / Mazda	Escape / Tribute	01-06	22.55	18.24	27.53	9.28
Mazda	CX-7	06-10	22.71	12.80	37.05	24.26
Nissan	X-Trail	01-07	24.08	20.08	28.60	8.51
Lada	Niva	84-99	24.91	16.41	35.92	19.51
Honda	CR-V	97-01	22.14	18.50	26.26	7.76
Honda	CR-V	02-06	21.18	16.90	26.20	9.30
Honda	HR-V	99-02	30.42	21.24	41.48	20.24
Honda	CR-V	07-10	24.22	15.48	35.80	20.32
Land Rover	Freelander	98-06	21.99	12.76	35.20	22.43
Subaru	Forester	08-10	20.02	10.12	35.77	25.65
Subaru	Forester	97-02	20.12	16.25	24.64	8.39
Subaru	Forester	02-08	20.55	16.17	25.74	9.56
Suzuki	Vitara / Escudo	88-98	23.36	20.00	27.10	7.10
Suzuki	Grand Vitara	99-05	21.50	15.71	28.69	12.98
Holden / Suzuki	Drover / Sierra / Samurai / SJ410 / SJ413	82-99	22.23	18.88	26.00	7.12
Suzuki	Jimny	98-10	27.06	16.64	40.81	24.18
Suzuki	Grand Vitara	05-08	13.41	5.66	28.56	22.91
Toyota	RAV4	94-00	24.16	20.89	27.77	6.88
Toyota	RAV4	01-06	24.90	21.09	29.14	8.05
Toyota	RAV4	06-10	24.19	18.15	31.47	13.31
Medium Sports Utility Vehicles			**23.51**	**22.46**	**24.60**	**2.14**
Daewoo / Ssangong	Musso	98-02	35.27	23.99	48.46	24.47
Ford	Territory SX/SY	04-10	25.08	20.53	30.26	9.74
Holden / Isuzu	Jackaroo / Bighorn	82-91	27.86	22.46	33.97	11.51
Holden / Isuzu	Jackaroo / Bighorn	92-97	24.43	18.99	30.84	11.85
Holden / Isuzu	Jackaroo / Bighorn	98-02	27.48	21.18	34.82	13.63
Holden	Frontera / Mu	95-03	28.72	20.11	39.19	19.08
Holden	Adventra	03-06	25.42	16.41	37.16	20.75
Holden	Captiva CG	06-10	16.69	10.26	25.98	15.71

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Hyundai	Santa Fe	00-06	26.07	18.39	35.57	17.18
Hyundai	Terracan	01-07	34.58	19.89	52.94	33.05
Mitsubishi	Pajero	82-90	24.78	21.21	28.73	7.52
Mitsubishi	Pajero	92-99	24.25	21.18	27.60	6.43
Mitsubishi	Pajero NM / NP / NS	00-06	22.20	17.07	28.33	11.26
Mitsubishi	Challenger	98-06	15.67	10.08	23.54	13.46
Jeep	Cherokee XJ	96-00	24.11	19.54	29.36	9.81
Jeep	Wrangler	96-04	23.86	17.08	32.28	15.20
Jeep	Cherokee KJ	01-07	21.52	13.52	32.46	18.94
Land Rover	Defender	92-10	21.82	13.84	32.66	18.82
Nissan	Pathfinder / Terrano	88-94	21.88	18.05	26.27	8.22
Nissan	Pathfinder / Terrano / Regulus	95-05	27.60	22.47	33.39	10.91
Nissan	Pathfinder	05-10	18.74	9.42	33.84	24.42
Toyota	Kluger / Highlander	03-07	20.16	14.31	27.64	13.33
Toyota	Landcruiser Prado	96-03	27.05	21.84	32.98	11.14
Toyota	Landcruiser Prado	03-09	25.92	21.89	30.41	8.53
Lexus	RX330	03-05	37.56	21.82	56.46	34.64
Toyota	Kluger / Highlander	07-10	17.00	9.93	27.56	17.64
Large Sports Utility Vehicles			**26.39**	**25.57**	**27.23**	**1.66**
BMW	X5	01-08	21.40	14.81	29.90	15.09
Ford	Bronco	82-87	26.51	16.09	40.42	24.33
Ford	Explorer	00-01	21.82	14.43	31.60	17.17
Ford	Explorer	01-05	21.35	13.24	32.56	19.32
Jeep	Grand Cherokee ZG	96-99	24.05	16.68	33.39	16.71
Jeep	Grand Cherokee WG	99-05	31.33	23.52	40.36	16.85
Land Rover	Discovery	91-02	19.81	15.81	24.52	8.70
Mercedes Benz	M-Class W163	98-05	18.64	12.68	26.56	13.88
Nissan	Patrol / Safari	82-87	27.76	23.19	32.85	9.67
Nissan / Ford	Patrol / Maverick / Safari	88-97	26.07	23.99	28.26	4.27
Nissan	Patrol / Safari	98-10	27.94	25.33	30.70	5.37
Land Rover	Range Rover	82-94	26.45	20.28	33.70	13.42
Land Rover	Range Rover	95-02	25.40	15.46	38.80	23.34
Toyota	Landcruiser	82-89	30.01	27.71	32.42	4.71
Toyota	Landcruiser	90-97	28.28	26.49	30.14	3.66
Toyota	Landcruiser	98-07	28.87	26.45	31.42	4.97
Commercial - Vans			**24.15**	**23.22**	**25.10**	**1.88**
Daihatsu	Handivan	82-90	29.92	21.36	40.17	18.80
Ford	Falcon Panel Van	82-95	23.29	19.93	27.02	7.09
Ford	Falcon Panel Van	96-99	28.11	19.60	38.55	18.95
Ford	Transit	95-00	20.10	15.51	25.65	10.14
Ford	Transit	01-07	22.59	17.80	28.22	10.42
Holden	Shuttle / WFR Van	82-87	18.94	12.22	28.16	15.94
Kia	Pregio	02-06	25.00	18.78	32.46	13.68
Mercedes Benz	MB100 / MB140	99-04	23.36	15.31	33.94	18.63
Mercedes Benz	Vito	99-04	23.28	16.61	31.62	15.01
Mercedes Benz	Sprinter	98-06	28.09	20.66	36.94	16.28
Honda	Acty	83-86	13.52	6.38	26.39	20.01
Holden / Suzuki	Scurry / Carry	82-00	22.25	14.53	32.52	17.99
Toyota	Hiace/Liteace	82-86	27.56	24.92	30.37	5.44
Toyota	Hiace/Liteace	87-89	27.06	24.03	30.33	6.29

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Toyota	Hiace/Liteace	90-95	25.47	23.21	27.87	4.66
Toyota	Hiace/Liteace	96-04	25.10	22.74	27.61	4.87
Toyota	Hiace	05-10	24.03	17.84	31.54	13.69
Volkswagen	Caravelle / Transporter	88-94	23.78	12.62	40.26	27.64
Volkswagen	Caravelle / Transporter	95-04	25.64	19.11	33.48	14.37
Volkswagen	Caddy	05-10	24.64	13.16	41.36	28.20
Commercial - Utes			**24.27**	**23.70**	**24.85**	**1.15**
Ford / Nissan	Falcon Ute / XFN Ute	82-95	23.03	21.00	25.20	4.20
Ford	Falcon Ute	96-99	23.73	19.79	28.18	8.39
Ford	Falcon Ute AU	00-02	24.35	21.13	27.88	6.75
Ford	Falcon Ute BA/BF	03-08	21.83	18.44	25.65	7.21
Ford	Ford F-Series	82-92	27.95	22.36	34.33	11.96
Ford	F-Series	01-06	26.01	16.91	37.78	20.87
Holden	Commodore Ute VG/VP	90-93	20.04	15.71	25.20	9.48
Holden / Isuzu	Rodeo / Pickup	82-85	28.76	21.84	36.85	15.01
Holden / Isuzu	Rodeo / Pickup	86-88	25.57	16.63	37.18	20.55
Holden / Isuzu	Rodeo / Pickup	89-95	28.42	25.89	31.09	5.20
Holden	Rodeo	96-98	24.69	21.24	28.51	7.27
Holden	Rodeo	99-02	26.55	23.18	30.23	7.05
Holden	WB Series	82-85	25.77	21.10	31.07	9.96
Holden	Commodore Ute VR/VS	94-00	25.80	23.30	28.48	5.18
Holden	Commodore VU Ute	00-02	25.31	20.61	30.66	10.05
Holden	Commodore VY/VZ Ute	02-07	27.87	24.71	31.26	6.56
Holden	Rodeo	03-08	23.24	20.33	26.42	6.09
Holden	Commodore VE Ute	07-10	31.24	20.81	44.00	23.18
Holden	Colorado RC	08-10	21.30	9.66	40.67	31.01
Mitsubishi	Triton MK	96-06	24.21	18.82	30.55	11.73
Mitsubishi	Triton ML / MN	06-10	20.54	13.06	30.78	17.72
Kia	Ceres	92-00	25.34	18.87	33.12	14.25
Ford / Mazda	Courier / B-Series / Bounty	98-02	25.07	21.10	29.51	8.41
Ford / Mazda	Courier / Bravo / Bounty	03-06	20.58	16.47	25.41	8.94
Ford / Mazda	Ranger / BT-50	06-10	28.01	21.94	35.00	13.06
Nissan	720 Ute	82-85	20.16	15.90	25.21	9.32
Nissan	Navara	86-91	25.72	22.86	28.82	5.96
Nissan	Navara	92-96	23.19	19.65	27.15	7.50
Nissan	Navara	97-05	24.97	21.79	28.45	6.66
Nissan	Navara	05-10	26.47	20.20	33.86	13.65
Subaru	Brumby	82-92	26.83	21.26	33.25	12.00
Suzuki	Mighty Boy	85-88	22.68	12.78	36.98	24.20
Toyota	4Runner/Hilux	82-85	28.16	25.19	31.33	6.13
Toyota	4Runner/Hilux	86-88	27.23	24.39	30.27	5.88
Toyota	4Runner/Hilux	89-97	25.26	23.84	26.74	2.91
Toyota	Hilux	98-02	26.82	24.30	29.50	5.20
Toyota	Hilux	03-04	26.49	22.09	31.40	9.31
Toyota	Hilux	05-10	25.50	22.33	28.95	6.62
Large Cars			**21.95**	**21.61**	**22.30**	**0.69**
BMW	7 Series E23	82-86	13.28	5.52	28.61	23.09
BMW	7 Series E32	87-94	22.18	13.08	35.06	21.98
BMW	7 Series E38	95-01	19.24	10.22	33.25	23.03
Ford	Falcon XE/XF	82-88	23.55	22.56	24.57	2.01

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Ford	Fairlane Z & LTD F	82-87	23.67	20.94	26.64	5.70
Ford	Falcon EA / Falcon EB Series I	88-Mar 92	23.63	22.57	24.72	2.14
Ford	Falcon EB Series II / Falcon ED	Apr 92-94	23.45	21.97	24.99	3.02
Ford	Fairlane N & LTD D	88-94	22.50	19.68	25.61	5.93
Ford	Fairlane N & LTD D	95-98	24.61	20.53	29.20	8.67
Ford	Fairlane & LTD AU	99-02	21.18	16.03	27.44	11.42
Ford	Fairlane & LTD BA/BF	03-07	21.67	14.30	31.44	17.13
Ford	Falcon FG	08-10	13.45	9.06	19.50	10.45
Ford	Falcon EF/EL	94-98	22.95	21.95	23.98	2.04
Ford	Falcon AU	98-02	22.70	21.46	23.98	2.52
Ford	Taurus	96-98	21.65	14.83	30.47	15.64
Ford	Falcon BA/BF	02-08	23.41	21.90	24.99	3.09
Holden / Toyota	Commodore VN/VP / Lexcen	89-93	22.60	21.63	23.60	1.97
Holden	Statesman/Caprice WB	82-85	38.90	18.81	63.64	44.83
Holden	Stateman/Caprice VQ	90-93	24.63	16.94	34.37	17.42
Holden	Stateman/Caprice VR/VS	94-98	24.94	21.56	28.67	7.11
Holden / Toyota	Commodore VR/VS / Lexcen	93-97	23.42	22.40	24.47	2.07
Holden	Commodore VT/VX	97-02	23.96	22.90	25.06	2.16
Holden	Statesman/Caprice WH	99-03	25.14	20.06	31.00	10.93
Holden	Commodore VY/VZ	02-07	20.82	19.21	22.53	3.32
Holden	Monaro	01-05	24.37	18.58	31.28	12.70
Holden	Statesman/Caprice WK/WL	03-06	24.61	16.68	34.75	18.07
Holden	Commodore VB-VL	82-88	23.00	21.94	24.10	2.17
Holden	Commodore VE	06-10	22.84	20.06	25.86	5.80
Hyundai	Sonata	89-97	23.90	20.54	27.62	7.08
Hyundai	Grandeaur / XG	99-00	19.30	11.34	30.92	19.58
Mitsubishi	Magna TM/TN/TP / Sigma / V3000	85-90	23.14	21.78	24.56	2.77
Mitsubishi	Magna TE/TF/TH/TJ / Verada KE/KF/KH/KJ / Diamante	96-03	21.54	20.04	23.11	3.07
Mitsubishi	Magna TR/TS / Verada KR/KS / V3000 / Diamante	91-96	21.82	20.57	23.12	2.55
Mitsubishi	Magna TL/TW / Verada KL/KW	03-05	22.43	17.42	28.38	10.97
Mitsubishi	380	05-08	22.07	15.30	30.75	15.45
Jaguar	XJ6	82-86	27.74	18.26	39.75	21.49
Jaguar	XJ6	87-94	19.63	12.28	29.90	17.62
Jaguar	S-Type	99-08	14.06	6.61	27.43	20.82
Mazda	929 / Luce	82-90	19.56	16.49	23.04	6.55
Mazda	929 / Sentia / Efini MS-9	92-96	40.06	25.96	56.02	30.06
Mercedes Benz	E-Class W123	82-85	19.56	11.91	30.41	18.50
Mercedes Benz	E-Class W124	86-94	27.57	21.71	34.31	12.60
Mercedes Benz	E-Class W210	96-02	21.99	15.63	30.03	14.40
Mercedes Benz	S-Class W126	82-92	16.46	11.12	23.69	12.57
Mercedes Benz	S-Class C140	93-98	23.49	13.05	38.58	25.53
Mercedes Benz	S-Class W220	99-06	20.47	8.76	40.83	32.07
Mercedes Benz	E-Class W211	02-09	22.96	14.43	34.51	20.08
Nissan	Skyline	83-88	22.82	20.46	25.37	4.90
Nissan	300ZX / Fairlady Z	90-95	27.88	20.13	37.22	17.09
Nissan	Maxima	90-94	25.00	20.47	30.16	9.70
Nissan	Maxima / Cefiro	95-99	17.43	14.03	21.44	7.42
Nissan	Maxima	00-02	23.77	17.88	30.87	12.99
Nissan	Maxima	06-09	22.79	16.18	31.10	14.92
Honda	Legend	86-95	23.69	18.04	30.45	12.41
Saab	9-5	98-05	10.94	4.58	23.95	19.38

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Toyota	Camry	98-02	22.70	21.10	24.38	3.27
Toyota	Crown / Cressida / Mark II	82-85	25.77	21.58	30.47	8.89
Toyota	Crown / Cressida / Mark II	86-88	25.38	18.43	33.86	15.43
Toyota	Cressida / Mark II	89-93	16.63	12.96	21.09	8.12
Toyota	Supra	82-90	24.65	17.58	33.42	15.84
Lexus	ES300 / Windom	92-01	15.55	10.72	22.00	11.28
Lexus	LS400 / Celsior	90-00	33.01	20.20	48.96	28.76
Toyota	Avalon	00-05	24.56	21.15	28.33	7.19
Toyota	Camry	02-06	22.02	19.60	24.65	5.05
Toyota	Aurion	06-10	21.70	15.65	29.28	13.63
Toyota	Camry	06-10	25.05	19.99	30.90	10.90
Volvo	850/S70/V70/C70	92-99	25.69	21.08	30.91	9.84
Volvo	700/900 Series	84-92	21.91	17.47	27.12	9.65
Medium Cars			**21.17**	**20.76**	**21.59**	**0.83**
Alfa Romeo	156	99-06	19.28	10.90	31.78	20.88
Alfa Romeo	147 / GT	01-10	19.37	8.61	37.98	29.37
Audi	A4	95-01	19.77	14.21	26.83	12.62
Audi	A4	01-08	22.91	16.43	31.00	14.57
BMW	Z3 E36	97-03	20.98	11.47	35.24	23.77
BMW	5 Series E60 / E61	03-10	26.33	14.95	42.09	27.14
BMW	3 Series E90 /E91 /E92 /E93	05-10	27.69	18.90	38.63	19.73
BMW	3 Series E30	82-91	21.55	18.39	25.09	6.70
BMW	3 Series E36	92-98	23.75	20.96	26.79	5.83
BMW	3 Series E46	99-06	20.95	17.43	24.96	7.54
BMW	5 Series E28	82-88	24.02	17.60	31.87	14.28
BMW	5 Series E34	89-95	25.03	19.45	31.57	12.12
BMW	5 Series E39	96-03	18.38	12.99	25.35	12.36
Chrysler	PT Cruiser	00-10	27.16	13.71	46.67	32.96
Daewoo	Espero	95-97	22.22	15.85	30.22	14.37
Daewoo	Leganza	97-02	26.57	19.39	35.26	15.87
Ford	Cortina	82-82	23.15	19.82	26.86	7.04
Ford	Mondeo	95-01	22.27	19.09	25.82	6.73
Ford	Probe	94-98	33.39	20.69	49.06	28.36
Ford	Cougar	99-03	19.36	12.99	27.85	14.86
Holden	Calibra	94-97	28.34	20.68	37.48	16.80
Holden	Camira	82-89	22.08	20.36	23.90	3.54
Holden	Vectra	97-03	23.33	20.30	26.67	6.37
Holden	Vectra ZC	03-05	18.32	12.02	26.91	14.90
Hyundai	Sonata	98-01	17.61	12.19	24.76	12.58
Hyundai	Sonata EF	02-05	29.17	15.96	47.17	31.21
Mitsubishi	Sigma / Galant / Sapporo / Lambda	82-84	22.55	20.81	24.40	3.59
Mitsubishi	Galant	95-96	19.60	16.03	23.73	7.69
Jaguar	X-Type	02-10	24.62	11.88	44.17	32.29
Ford / Mazda	Telstar / 626 / MX6 / Capella	83-86	21.38	19.64	23.24	3.60
Ford / Mazda	Telstar / 626 / MX6 / Capella	88-91	23.81	21.75	26.00	4.25
Ford / Mazda	Telstar / 626 / MX6 / Capella / Cronos	92-97	20.92	18.75	23.26	4.52
Mazda	626	98-02	24.93	20.94	29.40	8.46
Mazda	RX7	82-85	36.43	26.43	47.76	21.33
Mazda	RX7	86-91	22.87	14.93	33.37	18.44
Mazda	Eunos 500	93-99	19.31	11.04	31.57	20.53

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Mazda	6	02-07	17.97	14.31	22.32	8.01
Mazda	RX-8	03-10	11.31	4.16	27.28	23.13
Mercedes Benz	C-Class W201	87-93	23.62	17.12	31.65	14.52
Mercedes Benz	C-Class W202	95-00	23.61	18.17	30.08	11.91
Mercedes Benz	CLK C208	97-03	20.72	11.57	34.31	22.74
Mercedes Benz	C-Class W203	00-07	19.03	13.29	26.49	13.19
Mercedes Benz	CLK C209	03-09	23.40	12.61	39.27	26.66
Nissan	Pintara	86-88	22.33	19.58	25.36	5.78
Nissan / Ford	Pintara / Corsair / Bluebird	89-92	23.70	21.67	25.86	4.19
Nissan	Bluebird	82-86	21.88	20.03	23.84	3.81
Nissan	Bluebird	93-97	19.57	16.69	22.82	6.12
Nissan	200SX / Silvia	94-02	27.95	21.29	35.75	14.45
Nissan	350Z	03-09	27.77	15.07	45.43	30.37
Honda	Accord Euro	03-08	22.19	17.61	27.56	9.95
Honda	Accord	03-07	22.81	16.59	30.50	13.91
Honda	Accord	82-85	18.68	15.53	22.29	6.76
Honda	Accord	86-90	24.63	21.48	28.07	6.59
Honda	Accord	91-93	18.95	15.27	23.28	8.01
Honda	Accord	94-98	19.87	17.07	23.01	5.94
Honda	Accord	99-02	23.71	18.05	30.48	12.43
Honda	Prelude	82-82	16.95	6.47	37.59	31.12
Honda	Prelude	83-91	22.43	19.75	25.36	5.61
Honda	Prelude	92-96	21.76	17.52	26.69	9.17
Honda	Prelude	97-02	25.94	19.17	34.09	14.92
Peugeot	405	89-97	21.63	15.97	28.61	12.64
Peugeot	505	82-93	26.64	18.19	37.24	19.06
Peugeot	406	96-04	23.86	14.97	35.80	20.82
Renault	Feugo	82-87	13.62	6.39	26.68	20.28
Saab	900 Series	82-92	16.56	11.17	23.84	12.67
Saab	900/9-3	94-02	20.06	15.13	26.10	10.96
Saab	9000	86-97	19.65	14.04	26.81	12.77
Saab	9-3	03-10	26.73	14.70	43.56	28.86
Subaru	1800 / Leone / Omega / 4WD Wagon	82-93	19.14	16.86	21.66	4.80
Subaru	Liberty / Legacy	89-93	21.68	19.43	24.12	4.69
Subaru	Liberty / Legacy / Outback	94-98	27.43	24.23	30.89	6.66
Subaru	Liberty / Legacy / Outback	99-03	22.14	18.77	25.93	7.17
Subaru	Liberty / Legacy / Outback	03-09	18.49	14.22	23.69	9.47
Toyota	Corona	82-88	22.98	21.40	24.65	3.25
Toyota	Camry	83-86	20.31	17.08	23.97	6.90
Holden / Toyota	Apollo JK/JL / Camry / Vista	88-92	21.94	20.76	23.17	2.41
Holden / Toyota	Apollo JM/JP / Camry / Sceptor	93-97	22.60	21.23	24.03	2.80
Toyota	Celica	81-85	21.40	17.87	25.40	7.53
Toyota	Celica	86-89	22.13	18.26	26.56	8.29
Toyota	Celica	90-93	23.83	20.04	28.08	8.04
Toyota	Celica	94-99	21.23	16.50	26.87	10.37
Toyota	Celica	00-05	23.03	14.76	34.09	19.33
Lexus	IS200 / IS300	99-04	20.59	12.83	31.35	18.52
Lexus	IS350 / IS250 / IS F	05-10	14.70	6.40	30.28	23.88
Volvo	200 Series	82-93	22.96	19.07	27.37	8.30
Volvo	S60	01-09	19.97	10.34	35.04	24.70
Volkswagen	Passat	98-06	29.88	21.72	39.55	17.83

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
People Movers			**22.58**	**21.56**	**23.62**	**2.06**
Chrysler	Voyager	97-01	19.94	12.76	29.79	17.03
Holden	Zafira TT	01-05	24.90	15.14	38.12	22.99
Mitsubishi	Nimbus / Chariot / Spacewagon	85-91	19.04	13.53	26.13	12.60
Mitsubishi	Nimbus / Chariot	92-98	26.76	20.82	33.67	12.86
Mitsubishi	Nimbus	99-03	15.31	7.65	28.29	20.64
Mitsubishi	Starwagon / L300	83-86	24.33	21.07	27.91	6.84
Mitsubishi	Starwagon / Delica Starwagon	87-93	23.04	20.69	25.58	4.89
Mitsubishi	Starwagon / Delica Spacegear	95-98	23.45	19.24	28.25	9.01
Mitsubishi	Starwagon / Delica Spacegear	98-03	22.46	17.73	28.02	10.29
Kia	Carnival	99-06	23.42	17.70	30.32	12.62
Kia	Carnival	06-10	28.94	17.05	44.65	27.59
Mazda	MPV	94-99	24.92	15.03	38.38	23.35
Mazda	MPV	00-06	28.22	14.89	46.90	32.01
Nissan	Prairie	84-86	23.38	16.68	31.75	15.08
Nissan	Serena	92-95	17.23	11.72	24.60	12.88
Honda	Odyssey	95-00	24.31	19.49	29.88	10.39
Honda	Odyssey	00-02	31.13	19.17	46.28	27.11
Honda	Odyssey	04-09	15.74	9.34	25.29	15.96
Toyota	Tarago	83-89	26.22	23.05	29.66	6.62
Toyota	Tarago / Previa / Estima	91-99	23.56	20.13	27.37	7.24
Toyota	Tarago / Previa / Estima	00-06	28.17	21.41	36.08	14.67
Toyota	Tarago	06-10	15.60	7.87	28.57	20.69
Small Cars			**20.46**	**20.10**	**20.83**	**0.73**
Alfa Romeo	33	83-92	24.06	15.93	34.63	18.69
Alfa Romeo	75	86-92	23.36	10.81	43.39	32.58
Audi	A3/S3	97-04	27.56	17.78	40.09	22.31
Mini	Mini Cooper	02-10	25.98	16.57	38.28	21.71
BMW	1 Series E81 / E82 / E87 / E88	04-10	21.13	12.14	34.20	22.06
Chrysler	Neon	96-99	16.95	10.40	26.42	16.03
Daihatsu	Applause	89-99	19.05	15.37	23.36	7.99
Daewoo	1.5i	94-95	12.68	3.26	38.54	35.28
Daewoo	Cielo	95-97	19.91	16.63	23.66	7.02
Daewoo	Nubira	97-03	20.92	17.36	24.99	7.63
Daewoo	Lanos	97-03	19.90	17.23	22.86	5.63
Daewoo	Lacetti	03-04	18.15	7.61	37.38	29.77
Ford	Laser	91-94	21.15	19.46	22.94	3.47
Ford	Laser	95-97	23.13	20.11	26.46	6.35
Ford	Escort	82-82	17.94	13.16	23.98	10.82
Ford	Capri	89-94	17.65	13.51	22.72	9.21
Ford	Focus LR	02-05	22.95	18.40	28.23	9.83
Ford	Focus LS / LT	05-09	25.32	19.97	31.53	11.55
Fiat	Regata	84-88	29.70	16.80	46.92	30.12
Holden	Gemini	82-84	21.26	18.42	24.42	6.00
Holden	Gemini RB	86-87	20.62	14.81	27.96	13.15
Holden	Astra TR	96-98	22.34	17.18	28.51	11.33
Holden	Astra TS	98-06	20.91	18.90	23.06	4.16
Holden	Astra AH	04-09	19.60	15.45	24.55	9.11
Holden	Viva JF	05-09	22.37	15.65	30.92	15.27
Hyundai	Excel	86-90	20.66	17.23	24.58	7.34

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Hyundai	Excel	90-94	21.57	19.21	24.12	4.91
Hyundai	Excel / Accent	95-00	21.84	20.36	23.41	3.05
Hyundai	Elantra	00-06	22.70	18.38	27.69	9.31
Hyundai	Accent	06-10	23.52	10.15	45.58	35.43
Hyundai	i30	07-10	29.69	19.44	42.48	23.04
Hyundai	S Coupe	90-96	20.54	14.83	27.74	12.90
Hyundai	Lantra	91-95	20.11	15.44	25.78	10.34
Hyundai	Lantra	96-00	21.97	18.96	25.30	6.34
Hyundai	Coupe	96-00	17.50	11.68	25.39	13.70
Hyundai	Accent	00-06	20.35	17.38	23.68	6.30
Mitsubishi	Lancer / Mirage CA	89-90	21.39	18.87	24.15	5.28
Mitsubishi	Lancer / Mirage CB	91-92	25.41	20.15	31.51	11.35
Mitsubishi	Lancer / Mirage CC	93-95	20.42	18.01	23.06	5.05
Mitsubishi	Lancer / Mirage CE	96-03	21.31	19.66	23.05	3.39
Mitsubishi	Cordia	83-87	26.06	22.19	30.34	8.15
Mitsubishi	Lancer CH	03-07	22.98	18.30	28.44	10.15
Mitsubishi	Lancer CJ	08-10	15.41	6.90	30.93	24.03
Kia	Rio	00-05	25.21	20.64	30.40	9.76
Kia	Spectra	01-04	17.85	9.44	31.16	21.72
Kia	Cerato LD	04-08	22.83	14.50	34.05	19.56
Kia	Rio JB	05-10	17.78	11.71	26.07	14.35
Ford / Mazda	Laser / 323 / Familia	82-88	21.15	20.17	22.18	2.01
Mazda	323 / Familia / Lantis	90-93	18.52	16.37	20.89	4.52
Mazda	323 / Familia / Lantis	95-98	18.61	16.04	21.48	5.45
Ford / Mazda	Laser / 323	99-03	19.73	17.31	22.40	5.09
Mazda	MX5 / Eunos Roadster	89-97	17.62	10.37	28.34	17.97
Mazda	MX5 / Eunos Roadster	98-05	13.45	6.38	26.16	19.78
Mazda	Eunos 30X / Presso / MX-3 / Autozam AZ-3	90-97	20.88	12.09	33.62	21.53
Mazda	3 / Axela	03-09	19.67	16.82	22.88	6.06
Mercedes Benz	A-Class W168	98-04	25.72	16.04	38.55	22.51
Holden / Nissan	Astra / Pulsar / Langley	84-86	24.88	22.58	27.33	4.75
Holden / Nissan	Astra / Pulsar / Vector / Sentra	88-90	22.99	21.16	24.92	3.76
Nissan	Pulsar / Vector / Sentra	92-95	22.91	20.70	25.29	4.58
Nissan	Pulsar / Vector / Sentra	96-99	21.03	19.01	23.21	4.20
Nissan	Stanza	82-83	31.78	21.40	44.36	22.95
Nissan	Gazelle / Silvia	84-86	24.66	18.91	31.49	12.58
Nissan	Exa	83-86	25.56	17.29	36.06	18.76
Nissan	Exa	87-91	33.66	21.41	48.59	27.18
Nissan	NX/NX-R	91-96	23.99	18.12	31.04	12.93
Nissan	Pulsar	00-05	19.42	16.94	22.16	5.22
Nissan	Tiida	06-10	16.43	9.10	27.86	18.76
Honda	Civic	82-83	22.37	16.81	29.13	12.32
Honda	Civic / Ballade / Shuttle	84-87	21.93	18.63	25.62	6.98
Honda	Civic / Shuttle	88-91	19.85	17.34	22.62	5.28
Honda	Civic	92-95	23.07	20.42	25.96	5.54
Honda	Civic	96-00	17.22	14.78	19.97	5.19
Honda	CRX	87-91	21.22	15.62	28.15	12.54
Honda	CRX	92-98	27.33	16.16	42.33	26.17
Honda	Civic	01-05	21.16	16.67	26.46	9.79
Honda	Civic	06-10	21.74	16.08	28.71	12.63
Honda	Integra	86-88	16.27	11.60	22.35	10.75
Honda	Integra	90-92	23.60	18.19	30.02	11.83
Honda	Integra	93-01	18.82	14.60	23.93	9.33

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Honda	Integra	02-06	29.61	16.88	46.58	29.70
Honda	Concerto	89-93	26.39	19.74	34.33	14.59
Peugeot	306	94-01	20.58	15.68	26.53	10.85
Peugeot	307	01-09	18.40	12.29	26.63	14.34
Proton	Wira	95-96	27.66	21.24	35.14	13.90
Renault	19	91-96	18.87	10.32	31.99	21.67
Renault	Scenic	01-04	21.93	11.62	37.50	25.87
Rover	Quintet	82-86	10.53	3.82	25.88	22.06
MG	MGF / MG TF	99-05	23.58	11.64	41.95	30.31
Subaru	Impreza	93-00	24.86	22.04	27.91	5.88
Subaru	Impreza	01-07	20.93	16.91	25.60	8.69
Subaru	Impreza	07-10	31.70	18.89	48.05	29.16
Suzuki	Baleno / Cultus Crescent	95-02	14.41	10.20	19.97	9.77
Suzuki	Liana	01-07	18.73	10.92	30.24	19.32
Toyota	Corolla	82-84	20.41	18.55	22.41	3.87
Toyota	Corolla	86-88	22.45	20.79	24.20	3.41
Toyota / Holden	Corolla / Nova	89-93	21.64	20.36	22.97	2.61
Toyota / Holden	Corolla / Nova	94-97	21.16	19.56	22.85	3.29
Toyota	Corolla / Allex	98-01	22.04	19.39	24.93	5.54
Toyota	Corolla	02-07	21.27	19.30	23.38	4.08
Toyota	Corolla	07-10	23.83	19.10	29.30	10.20
Toyota	Tercel	83-88	15.99	9.54	25.56	16.02
Toyota	MR2	87-90	21.10	13.44	31.55	18.11
Toyota	MR2	91-00	26.88	17.65	38.69	21.04
Toyota	Paseo / Cynos	91-99	24.98	19.28	31.71	12.43
Toyota	Corolla 4WD Wagon	92-96	27.17	18.00	38.80	20.79
Toyota	Prius II	03-09	23.74	14.74	35.94	21.20
Volvo	S40/V40	97-04	19.98	13.19	29.09	15.90
Volkswagen	Golf	82-94	27.86	18.30	39.96	21.65
Volkswagen	Golf	95-98	25.37	18.83	33.25	14.42
Volkswagen	Golf / Bora	99-04	19.29	15.42	23.85	8.44
Volkswagen	New Beetle	00-10	29.29	20.05	40.61	20.55
Volkswagen	Golf / Jetta	04-10	22.08	16.93	28.27	11.34
Light Cars			**19.79**	**19.19**	**20.40**	**1.21**
Daihatsu	Charade	82-86	22.33	17.98	27.38	9.39
Daihatsu	Charade	88-92	20.61	17.80	23.73	5.93
Daihatsu	Charade	93-00	21.45	18.31	24.97	6.66
Daihatsu	Pyzar	97-01	25.89	15.80	39.43	23.63
Daihatsu	Sirion / Storia	98-04	19.99	14.65	26.67	12.02
Daihatsu	Mira	90-96	20.71	15.01	27.88	12.87
Daewoo	Matiz	99-04	21.33	14.67	29.95	15.28
Daewoo	Kalos	03-04	18.77	10.13	32.15	22.02
Ford	Festiva WD/WH/WF	94-01	19.06	17.30	20.95	3.65
Ford	Ka	99-02	16.90	10.12	26.87	16.76
Holden	Barina XC	01-06	20.63	17.01	24.78	7.77
Holden	Barina SB	95-00	22.07	19.32	25.09	5.76
Holden	Barina TK	05-10	17.74	12.67	24.28	11.60
Hyundai	Getz / TB	02-10	26.80	22.97	31.00	8.03
Mitsubishi	Mirage / Colt	82-88	21.07	19.13	23.15	4.02
Mitsubishi	Colt	04-10	22.28	13.62	34.27	20.64
Ford / Mazda	Festiva WA / 121	87-90	19.46	16.92	22.27	5.35
Mazda	121 / Autozam Review	94-96	18.42	14.82	22.66	7.84

Make	Model of Car	Years of Manufacture	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Mazda	121 Metro / Demio	97-02	19.27	15.59	23.58	7.99
Mazda	2	02-07	24.98	18.07	33.45	15.38
Mazda	2	07-10	24.64	16.27	35.49	19.22
Nissan	Micra	95-97	19.16	12.81	27.64	14.83
Honda	Jazz / Fit	02-08	21.58	16.77	27.31	10.54
Honda	City	83-86	24.00	18.44	30.60	12.16
Peugeot	205	87-94	16.17	7.35	31.92	24.56
Peugeot	206	99-07	18.89	12.40	27.69	15.29
Renault	Clio	01-08	29.02	15.42	47.83	32.40
Subaru	Sherpa / Fiori / 700 / Rex	89-92	20.59	14.55	28.29	13.74
Suzuki	Swift	82-85	22.23	10.63	40.72	30.08
Holden / Suzuki	Barina / Swift / Cultus	86-88	19.28	16.24	22.73	6.49
Holden / Suzuki	Barina / Swift / Cultus	89-99	19.84	18.04	21.76	3.72
Suzuki	Hatch / Alto	82-84	25.97	18.57	35.06	16.49
Suzuki	Alto	85-00	27.42	19.24	37.48	18.24
Suzuki	Ignis	00-02	16.56	10.42	25.31	14.89
Suzuki	Swift	05-10	21.39	16.66	27.02	10.36
Toyota	Starlet	96-99	20.91	17.72	24.49	6.77
Toyota	Echo	99-05	22.26	19.41	25.39	5.99
Toyota	Yaris	05-10	19.81	15.85	24.48	8.62
Volkswagen	Polo	96-00	19.27	13.03	27.55	14.52
Volkswagen	Polo	02-10	24.82	15.78	36.78	21.00

AGGRESSIVITY RATINGS
(WITH 95% CONFIDENCE LIMITS)

New South Wales and Victoria Data (1987-2010), South Australia Data (1995-2010), Queensland Data (1991-2009), Western Australia and New Zealand Data (1991-2010)

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
ALL VEHICLE AVERAGE			**3.60**			
Compact Sports Utility Vehicles			**3.23**	**3.06**	**3.41**	**0.35**
Daihatsu	Feroza / Rocky	89-97	4.30	3.05	6.07	3.02
Daihatsu	Rocky / Rugger	85-98	5.03	3.23	7.84	4.62
Daihatsu	Terios	97-05	3.40	2.24	5.18	2.94
Holden	Cruze	02-06	3.26	2.05	5.19	3.15
Hyundai	Tucson	04-10	2.52	1.21	5.29	4.08
Mitsubishi	Outlander	03-06	4.08	2.47	6.75	4.28
Mitsubishi / Peugeot	Outlander / 4007	06-10	2.65	1.33	5.27	3.94
Kia	Sportage	98-03	3.92	2.77	5.55	2.78
Kia	Sorento	03-09	3.41	1.67	6.94	5.27
Ford / Mazda	Escape / Tribute	01-06	4.02	3.12	5.17	2.05
Mazda	CX-7	06-10	4.38	2.30	8.34	6.04
Nissan	X-Trail	01-07	3.68	2.95	4.57	1.62
Lada	Niva	84-99	4.36	2.71	7.03	4.32
Honda	CR-V	97-01	3.44	2.77	4.25	1.48
Honda	CR-V	02-06	3.10	2.39	4.03	1.64
Honda	HR-V	99-02	4.82	3.17	7.33	4.16
Honda	CR-V	07-10	3.64	2.15	6.15	4.01
Land Rover	Freelander	98-06	4.64	2.53	8.49	5.96
Subaru	Forester	08-10	3.61	1.73	7.56	5.83
Subaru	Forester	97-02	2.92	2.25	3.78	1.53
Subaru	Forester	02-08	3.06	2.32	4.04	1.72
Suzuki	Vitara / Escudo	88-98	3.99	3.34	4.78	1.44
Suzuki	Grand Vitara	99-05	3.87	2.69	5.57	2.87
Holden / Suzuki	Drover / Sierra / Samurai / SJ410 / SJ413	82-99	3.57	2.96	4.30	1.35
Suzuki	Jimny	98-10	5.07	2.98	8.64	5.66
Suzuki	Grand Vitara	05-08	1.94	0.80	4.74	3.94
Toyota	RAV4	94-00	4.04	3.39	4.82	1.42
Toyota	RAV4	01-06	4.30	3.53	5.24	1.70
Toyota	RAV4	06-10	3.28	2.34	4.60	2.26
Medium Sports Utility Vehicles			**4.22**	**3.99**	**4.46**	**0.47**
Daewoo / Ssangong	Musso	98-02	4.31	2.54	7.32	4.78
Ford	Territory SX/SY	04-10	3.89	3.05	4.96	1.90
Holden / Isuzu	Jackaroo / Bighorn	82-91	6.05	4.66	7.86	3.20
Holden / Isuzu	Jackaroo / Bighorn	92-97	4.81	3.58	6.46	2.89
Holden / Isuzu	Jackaroo / Bighorn	98-02	5.97	4.44	8.02	3.57

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Holden	Frontera / Mu	95-03	5.19	3.41	7.89	4.48
Holden	Adventra	03-06	3.64	2.11	6.30	4.19
Holden	Captiva CG	06-10	2.81	1.65	4.77	3.11
Hyundai	Santa Fe	00-06	5.42	3.59	8.18	4.59
Hyundai	Terracan	01-07	6.97	3.83	12.69	8.87
Mitsubishi	Pajero	82-90	5.12	4.23	6.20	1.96
Mitsubishi	Pajero	92-99	4.89	4.18	5.71	1.53
Mitsubishi	Pajero NM / NP / NS	00-06	4.11	3.07	5.50	2.44
Mitsubishi	Challenger	98-06	3.32	2.06	5.35	3.29
Jeep	Cherokee XJ	96-00	4.81	3.79	6.11	2.32
Jeep	Wrangler	96-04	5.90	4.04	8.61	4.56
Jeep	Cherokee KJ	01-07	4.20	2.52	7.00	4.48
Land Rover	Defender	92-10	4.23	2.53	7.07	4.54
Nissan	Pathfinder / Terrano	88-94	5.06	3.88	6.59	2.72
Nissan	Pathfinder / Terrano / Regulus	95-05	5.26	4.06	6.80	2.74
Nissan	Pathfinder	05-10	3.07	1.46	6.43	4.97
Toyota	Kluger / Highlander	03-07	3.55	2.41	5.24	2.83
Toyota	Landcruiser Prado	96-03	6.38	4.99	8.14	3.14
Toyota	Landcruiser Prado	03-09	5.27	4.33	6.40	2.07
Lexus	RX330	03-05	4.79	2.44	9.42	6.98
Toyota	Kluger / Highlander	07-10	2.67	1.47	4.85	3.38
Large Sports Utility Vehicles			**5.21**	**5.02**	**5.42**	**0.40**
BMW	X5	01-08	3.06	1.97	4.74	2.77
Ford	Bronco	82-87	7.23	4.14	12.64	8.50
Ford	Explorer	00-01	4.49	2.82	7.13	4.30
Ford	Explorer	01-05	3.65	2.08	6.40	4.32
Jeep	Grand Cherokee ZG	96-99	5.06	3.29	7.78	4.50
Jeep	Grand Cherokee WG	99-05	5.03	3.42	7.40	3.99
Land Rover	Discovery	91-02	3.76	2.87	4.93	2.06
Mercedes Benz	M-Class W163	98-05	4.29	2.75	6.71	3.96
Nissan	Patrol / Safari	82-87	6.59	5.33	8.14	2.81
Nissan / Ford	Patrol / Maverick / Safari	88-97	5.55	5.03	6.11	1.08
Nissan	Patrol / Safari	98-10	5.93	5.26	6.67	1.41
Land Rover	Range Rover	82-94	6.27	4.64	8.48	3.84
Land Rover	Range Rover	95-02	3.67	1.93	6.98	5.05
Toyota	Landcruiser	82-89	6.80	6.18	7.47	1.29
Toyota	Landcruiser	90-97	6.43	5.95	6.94	0.99
Toyota	Landcruiser	98-07	5.91	5.32	6.57	1.25
Commercial - Vans			**4.67**	**4.45**	**4.90**	**0.45**
Daihatsu	Handivan	82-90	2.79	1.79	4.36	2.57
Ford	Falcon Panel Van	82-95	4.03	3.36	4.83	1.46
Ford	Falcon Panel Van	96-99	4.89	3.23	7.41	4.18
Ford	Transit	95-00	4.55	3.41	6.05	2.64
Ford	Transit	01-07	4.42	3.31	5.90	2.59
Holden	Shuttle / WFR Van	82-87	4.10	2.53	6.64	4.11
Kia	Pregio	02-06	5.84	4.25	8.02	3.77

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Mercedes Benz	MB100 / MB140	99-04	4.52	2.81	7.27	4.46
Mercedes Benz	Vito	99-04	5.51	3.77	8.05	4.27
Mercedes Benz	Sprinter	98-06	5.95	4.16	8.50	4.34
Honda	Acty	83-86	1.83	0.78	4.27	3.49
Holden / Suzuki	Scurry / Carry	82-00	2.93	1.70	5.06	3.37
Toyota	Hiace/Liteace	82-86	5.99	5.25	6.85	1.60
Toyota	Hiace/Liteace	87-89	5.98	5.08	7.03	1.95
Toyota	Hiace/Liteace	90-95	6.15	5.49	6.88	1.39
Toyota	Hiace/Liteace	96-04	5.54	4.93	6.22	1.30
Toyota	Hiace	05-10	4.85	3.47	6.76	3.29
Volkswagen	Caravelle / Transporter	88-94	5.26	2.75	10.08	7.34
Volkswagen	Caravelle / Transporter	95-04	6.52	4.75	8.95	4.20
Volkswagen	Caddy	05-10	4.31	2.15	8.64	6.50
Commercial - Utes			**4.22**	**4.10**	**4.34**	**0.24**
Ford / Nissan	Falcon Ute / XFN Ute	82-95	4.54	4.08	5.05	0.97
Ford	Falcon Ute	96-99	4.75	3.88	5.83	1.95
Ford	Falcon Ute AU	00-02	5.05	4.28	5.96	1.69
Ford	Falcon Ute BA/BF	03-08	4.05	3.34	4.91	1.58
Ford	Ford F-Series	82-92	6.37	4.94	8.23	3.29
Ford	F-Series	01-06	6.33	3.94	10.16	6.23
Holden	Commodore Ute VG/VP	90-93	3.24	2.45	4.27	1.82
Holden / Isuzu	Rodeo / Pickup	82-85	4.91	3.46	6.97	3.51
Holden / Isuzu	Rodeo / Pickup	86-88	4.85	3.02	7.79	4.77
Holden / Isuzu	Rodeo / Pickup	89-95	5.61	5.03	6.26	1.24
Holden	Rodeo	96-98	4.69	3.95	5.58	1.63
Holden	Rodeo	99-02	5.21	4.45	6.11	1.66
Holden	WB Series	82-85	4.99	3.96	6.30	2.34
Holden	Commodore Ute VR/VS	94-00	4.66	4.14	5.24	1.10
Holden	Commodore VU Ute	00-02	4.50	3.57	5.67	2.10
Holden	Commodore VY/VZ Ute	02-07	4.81	4.18	5.55	1.37
Holden	Rodeo	03-08	5.00	4.31	5.80	1.50
Holden	Commodore VE Ute	07-10	5.00	3.09	8.10	5.01
Holden	Colorado RC	08-10	4.05	1.77	9.25	7.48
Mitsubishi	Triton MK	96-06	4.51	3.43	5.92	2.49
Mitsubishi	Triton ML / MN	06-10	3.13	1.90	5.15	3.24
Kia	Ceres	92-00	3.47	2.49	4.84	2.35
Ford / Mazda	Courier / B-Series / Bounty	98-02	4.42	3.61	5.41	1.80
Ford / Mazda	Courier / Bravo / Bounty	03-06	3.69	2.87	4.75	1.88
Ford / Mazda	Ranger / BT-50	06-10	4.55	3.41	6.09	2.68
Nissan	720 Ute	82-85	3.81	2.90	5.01	2.11
Nissan	Navara	86-91	5.04	4.36	5.82	1.46
Nissan	Navara	92-96	4.82	3.97	5.86	1.89
Nissan	Navara	97-05	4.74	4.04	5.57	1.53
Nissan	Navara	05-10	4.49	3.27	6.16	2.89
Subaru	Brumby	82-92	4.22	3.18	5.60	2.42
Suzuki	Mighty Boy	85-88	2.39	1.21	4.73	3.52
Toyota	4Runner/Hilux	82-85	5.76	5.04	6.60	1.56
Toyota	4Runner/Hilux	86-88	5.34	4.65	6.14	1.49

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Toyota	4Runner/Hilux	89-97	4.97	4.64	5.33	0.69
Toyota	Hilux	98-02	5.19	4.63	5.82	1.19
Toyota	Hilux	03-04	4.92	4.00	6.04	2.04
Toyota	Hilux	05-10	4.48	3.84	5.22	1.38
Large Cars			**3.46**	**3.39**	**3.52**	**0.13**
BMW	7 Series E23	82-86	2.37	0.94	5.99	5.04
BMW	7 Series E32	87-94	4.11	2.22	7.62	5.40
BMW	7 Series E38	95-01	4.65	2.36	9.16	6.80
Ford	Falcon XE/XF	82-88	4.26	4.04	4.49	0.44
Ford	Fairlane Z & LTD F	82-87	4.13	3.58	4.77	1.19
Ford	Falcon EA / Falcon EB Series I	88-Mar 92	4.18	3.96	4.42	0.45
Ford	Falcon EB Series II / Falcon ED	Apr 92-94	4.24	3.93	4.58	0.65
Ford	Fairlane N & LTD D	88-94	3.65	3.11	4.27	1.16
Ford	Fairlane N & LTD D	95-98	4.63	3.74	5.73	2.00
Ford	Fairlane & LTD AU	99-02	3.50	2.55	4.79	2.24
Ford	Fairlane & LTD BA/BF	03-07	3.05	1.92	4.85	2.93
Ford	Falcon FG	08-10	1.82	1.16	2.85	1.69
Ford	Falcon EF/EL	94-98	4.20	3.99	4.43	0.44
Ford	Falcon AU	98-02	4.13	3.87	4.41	0.54
Ford	Taurus	96-98	4.00	2.59	6.16	3.57
Ford	Falcon BA/BF	02-08	4.08	3.77	4.41	0.64
Holden / Toyota	Commodore VN/VP / Lexcen	89-93	3.69	3.51	3.89	0.38
Holden	Statesman/Caprice WB	82-85	8.30	4.00	17.23	13.23
Holden	Stateman/Caprice VQ	90-93	3.92	2.53	6.09	3.56
Holden	Stateman/Caprice VR/VS	94-98	3.81	3.21	4.51	1.31
Holden / Toyota	Commodore VR/VS / Lexcen	93-97	3.77	3.58	3.97	0.39
Holden	Commodore VT/VX	97-02	4.39	4.16	4.63	0.46
Holden	Statesman/Caprice WH	99-03	4.87	3.76	6.30	2.54
Holden	Commodore VY/VZ	02-07	3.59	3.27	3.93	0.66
Holden	Monaro	01-05	4.62	3.35	6.37	3.02
Holden	Statesman/Caprice WK/WL	03-06	4.11	2.68	6.31	3.63
Holden	Commodore VB-VL	82-88	3.98	3.76	4.21	0.45
Holden	Commodore VE	06-10	3.84	3.30	4.46	1.15
Hyundai	Sonata	89-97	3.95	3.32	4.71	1.39
Hyundai	Grandeaur / XG	99-00	4.22	2.40	7.42	5.02
Mitsubishi	Magna TM/TN/TP / Sigma / V3000	85-90	3.86	3.59	4.15	0.55
Mitsubishi	Magna TE/TF/TH/TJ / Verada KE/KF/KH/KJ / Diamante	96-03	3.77	3.47	4.09	0.61
Mitsubishi	Magna TR/TS / Verada KR/KS / V3000 / Diamante	91-96	3.86	3.61	4.14	0.53
Mitsubishi	Magna TL/TW / Verada KL/KW	03-05	3.56	2.70	4.70	2.00
Mitsubishi	380	05-08	3.18	2.11	4.79	2.68
Jaguar	XJ6	82-86	5.67	3.43	9.37	5.93
Jaguar	XJ6	87-94	4.37	2.64	7.24	4.60
Jaguar		S-Type	99-08	3.05	1.37	6.82
Mazda	929 / Luce	82-90	3.47	2.85	4.23	1.39
Mazda	929 / Sentia / Efini MS-9	92-96	6.31	3.67	10.86	7.19
Mercedes Benz	E-Class W123	82-85	3.49	2.05	5.95	3.90

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Mercedes Benz	E-Class W124	86-94	3.89	2.91	5.20	2.29
Mercedes Benz	E-Class W210	96-02	3.65	2.48	5.38	2.90
Mercedes Benz	S-Class W126	82-92	2.51	1.63	3.85	2.22
Mercedes Benz	S-Class C140	93-98	4.17	2.14	8.09	5.95
Mercedes Benz	S-Class W220	99-06	4.26	1.78	10.16	8.38
Mercedes Benz	E-Class W211	02-09	3.47	2.01	6.00	3.99
Nissan	Skyline	83-88	4.25	3.72	4.85	1.14
Nissan	300ZX / Fairlady Z	90-95	5.59	3.77	8.28	4.51
Nissan	Maxima	90-94	4.29	3.26	5.63	2.36
Nissan	Maxima / Cefiro	95-99	3.10	2.39	4.02	1.63
Nissan	Maxima	00-02	3.79	2.60	5.52	2.92
Nissan	Maxima	06-09	3.18	2.02	5.01	2.99
Honda	Legend	86-95	4.88	3.55	6.70	3.15
Saab	9-5	98-05	1.58	0.63	3.94	3.30
Toyota	Camry	98-02	3.94	3.63	4.28	0.65
Toyota	Crown / Cressida / Mark II	82-85	4.59	3.69	5.72	2.03
Toyota	Crown / Cressida / Mark II	86-88	3.82	2.63	5.56	2.93
Toyota	Cressida / Mark II	89-93	2.47	1.87	3.26	1.39
Toyota	Supra	82-90	5.82	3.94	8.60	4.66
Lexus	ES300 / Windom	92-01	3.00	1.97	4.56	2.59
Lexus	LS400 / Celsior	90-00	4.69	2.56	8.59	6.03
Toyota	Avalon	00-05	4.57	3.84	5.43	1.59
Toyota	Camry	02-06	3.69	3.23	4.20	0.97
Toyota	Aurion	06-10	3.32	2.32	4.75	2.43
Toyota	Camry	06-10	3.37	2.60	4.36	1.76
Volvo	850/S70/V70/C70	92-99	4.73	3.76	5.94	2.18
Volvo	700/900 Series	84-92	3.67	2.83	4.75	1.91
Medium Cars			**3.05**	**2.98**	**3.13**	**0.14**
Alfa Romeo	156	99-06	2.09	1.11	3.93	2.83
Alfa Romeo	147 / GT	01-10	1.74	0.70	4.32	3.62
Audi	A4	95-01	3.05	2.09	4.46	2.37
Audi	A4	01-08	3.12	2.10	4.63	2.53
BMW	Z3 E36	97-03	3.52	1.75	7.11	5.36
BMW	5 Series E60 / E61	03-10	4.29	2.26	8.17	5.91
BMW	3 Series E90 /E91 /E92 /E93	05-10	3.76	2.40	5.86	3.46
BMW	3 Series E30	82-91	3.16	2.61	3.84	1.23
BMW	3 Series E36	92-98	3.22	2.76	3.75	0.99
BMW	3 Series E46	99-06	3.05	2.46	3.76	1.30
BMW	5 Series E28	82-88	4.19	2.91	6.03	3.11
BMW	5 Series E34	89-95	3.79	2.73	5.26	2.52
BMW	5 Series E39	96-03	2.95	2.00	4.35	2.35
Chrysler	PT Cruiser	00-10	2.86	1.27	6.43	5.16
Daewoo	Espero	95-97	3.88	2.68	5.62	2.93
Daewoo	Leganza	97-02	4.63	3.26	6.58	3.33
Ford	Cortina	82-82	3.97	3.30	4.78	1.48
Ford	Mondeo	95-01	3.53	2.91	4.27	1.36
Ford	Probe	94-98	5.48	3.12	9.61	6.49
Ford	Cougar	99-03	2.36	1.50	3.72	2.22

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Holden	Calibra	94-97	4.91	3.29	7.33	4.05
Holden	Camira	82-89	3.83	3.48	4.21	0.74
Holden	Vectra	97-03	3.69	3.13	4.35	1.23
Holden	Vectra ZC	03-05	3.04	1.88	4.93	3.05
Hyundai	Sonata	98-01	2.92	1.97	4.32	2.35
Hyundai	Sonata EF	02-05	4.59	2.44	8.60	6.16
Mitsubishi	Sigma / Galant / Sapporo / Lambda	82-84	3.59	3.26	3.96	0.70
Mitsubishi	Galant	95-96	3.08	2.40	3.95	1.55
Jaguar	X-Type	02-10	3.92	1.77	8.64	6.87
Ford / Mazda	Telstar / 626 / MX6 / Capella	83-86	3.31	2.97	3.69	0.72
Ford / Mazda	Telstar / 626 / MX6 / Capella	88-91	3.51	3.12	3.95	0.83
Ford / Mazda	Telstar / 626 / MX6 / Capella / Cronos	92-97	2.93	2.56	3.35	0.79
Mazda	626	98-02	3.41	2.75	4.24	1.49
Mazda	RX7	82-85	5.08	3.27	7.91	4.64
Mazda	RX7	86-91	4.25	2.55	7.06	4.51
Mazda	Eunos 500	93-99	3.29	1.80	6.01	4.21
Mazda	6	02-07	2.52	1.94	3.26	1.32
Mazda	RX-8	03-10	2.26	0.82	6.24	5.42
Mercedes Benz	C-Class W201	87-93	3.44	2.36	5.01	2.65
Mercedes Benz	C-Class W202	95-00	2.50	1.81	3.44	1.62
Mercedes Benz	CLK C208	97-03	2.50	1.21	5.14	3.92
Mercedes Benz	C-Class W203	00-07	2.64	1.77	3.92	2.14
Mercedes Benz	CLK C209	03-09	3.47	1.74	6.94	5.21
Nissan	Pintara	86-88	3.56	3.05	4.15	1.10
Nissan / Ford	Pintara / Corsair / Bluebird	89-92	3.89	3.49	4.33	0.84
Nissan	Bluebird	82-86	3.33	2.99	3.72	0.73
Nissan	Bluebird	93-97	2.97	2.41	3.67	1.25
Nissan	200SX / Silvia	94-02	4.24	3.07	5.84	2.76
Nissan	350Z	03-09	5.20	2.63	10.30	7.68
Honda	Accord Euro	03-08	2.96	2.25	3.90	1.64
Honda	Accord	03-07	3.41	2.38	4.89	2.51
Honda	Accord	82-85	2.64	2.07	3.37	1.30
Honda	Accord	86-90	3.69	3.06	4.46	1.40
Honda	Accord	91-93	3.25	2.53	4.18	1.65
Honda	Accord	94-98	3.42	2.87	4.08	1.21
Honda	Accord	99-02	4.18	3.01	5.81	2.80
Honda	Prelude	82-82	2.00	0.67	5.92	5.25
Honda	Prelude	83-91	3.29	2.78	3.90	1.12
Honda	Prelude	92-96	3.02	2.31	3.96	1.64
Honda	Prelude	97-02	4.00	2.78	5.75	2.97
Peugeot	405	89-97	2.77	1.83	4.20	2.37
Peugeot	505	82-93	3.77	2.37	5.99	3.62
Peugeot	406	96-04	1.71	0.81	3.61	2.80
Renault	Feugo	82-87	1.84	0.77	4.36	3.58
Saab	900 Series	82-92	2.24	1.44	3.48	2.04
Saab	900/9-3	94-02	2.96	2.15	4.08	1.93
Saab	9000	86-97	2.91	2.00	4.25	2.25
Saab	9-3	03-10	3.96	2.02	7.79	5.77

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Subaru	1800 / Leone / Omega / 4WD Wagon	82-93	2.86	2.46	3.33	0.87
Subaru	Liberty / Legacy	89-93	3.54	3.09	4.05	0.95
Subaru	Liberty / Legacy / Outback	94-98	4.21	3.57	4.98	1.41
Subaru	Liberty / Legacy / Outback	99-03	3.39	2.79	4.12	1.33
Subaru	Liberty / Legacy / Outback	03-09	2.67	1.98	3.60	1.62
Toyota	Corona	82-88	3.58	3.29	3.90	0.61
Toyota	Camry	83-86	3.51	2.88	4.28	1.40
Holden / Toyota	Apollo JK/JL / Camry / Vista	88-92	3.85	3.61	4.11	0.49
Holden / Toyota	Apollo JM/JP / Camry / Sceptor	93-97	3.78	3.52	4.07	0.54
Toyota	Celica	81-85	4.14	3.36	5.10	1.74
Toyota	Celica	86-89	3.99	3.19	4.99	1.79
Toyota	Celica	90-93	4.33	3.54	5.30	1.76
Toyota	Celica	94-99	3.47	2.61	4.61	2.00
Toyota	Celica	00-05	3.25	1.99	5.31	3.32
Lexus	IS200 / IS300	99-04	3.24	1.97	5.35	3.38
Lexus	IS350 / IS250 / IS F	05-10	2.22	0.93	5.31	4.38
Volvo	200 Series	82-93	3.57	2.88	4.44	1.56
Volvo	S60	01-09	3.86	1.88	7.91	6.02
Volkswagen	Passat	98-06	4.23	2.79	6.41	3.62
People Movers			**3.87**	**3.66**	**4.09**	**0.43**
Chrysler	Voyager	97-01	4.47	2.78	7.20	4.42
Holden	Zafira TT	01-05	3.34	1.88	5.91	4.03
Mitsubishi	Nimbus / Chariot / Spacewagon	85-91	2.58	1.56	4.25	2.69
Mitsubishi	Nimbus / Chariot	92-98	3.77	2.73	5.20	2.47
Mitsubishi	Nimbus	99-03	1.74	0.81	3.75	2.95
Mitsubishi	Starwagon / L300	83-86	5.45	4.56	6.51	1.94
Mitsubishi	Starwagon / Delica Starwagon	87-93	4.61	4.05	5.24	1.18
Mitsubishi	Starwagon / Delica Spacegear	95-98	5.36	4.30	6.70	2.40
Mitsubishi	Starwagon / Delica Spacegear	98-03	4.17	3.21	5.43	2.22
Kia	Carnival	99-06	5.01	3.69	6.80	3.11
Kia	Carnival	06-10	5.33	3.00	9.45	6.44
Mazda	MPV	94-99	5.56	3.27	9.46	6.19
Mazda	MPV	00-06	4.31	2.13	8.72	6.59
Nissan	Prairie	84-86	3.31	2.00	5.46	3.46
Nissan	Serena	92-95	2.47	1.34	4.52	3.18
Honda	Odyssey	95-00	4.48	3.28	6.11	2.82
Honda	Odyssey	00-02	5.57	3.19	9.71	6.51
Honda	Odyssey	04-09	2.22	1.24	3.99	2.75
Toyota	Tarago	83-89	4.66	4.00	5.44	1.45
Toyota	Tarago / Previa / Estima	91-99	4.27	3.57	5.12	1.55
Toyota	Tarago / Previa / Estima	00-06	4.53	3.32	6.19	2.87
Toyota	Tarago	06-10	2.97	1.45	6.09	4.64
Small Cars			**2.63**	**2.58**	**2.69**	**0.11**
Alfa Romeo	33	83-92	1.86	1.04	3.33	2.29
Alfa Romeo	75	86-92	5.10	2.29	11.34	9.05

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Audi	A3/S3	97-04	4.15	2.48	6.96	4.48
Mini	Mini Cooper	02-10	3.54	2.04	6.14	4.10
BMW	1 Series E81 / E82 / E87 / E88	04-10	3.17	1.68	5.98	4.31
Chrysler	Neon	96-99	2.66	1.56	4.52	2.96
Daihatsu	Applause	89-99	2.79	2.20	3.54	1.33
Daewoo	1.5i	94-95	2.48	0.66	9.29	8.63
Daewoo	Cielo	95-97	2.76	2.26	3.36	1.11
Daewoo	Nubira	97-03	3.15	2.56	3.88	1.32
Daewoo	Lanos	97-03	3.27	2.78	3.84	1.06
Daewoo	Lacetti	03-04	2.96	1.20	7.31	6.11
Ford	Laser	91-94	3.02	2.74	3.33	0.59
Ford	Laser	95-97	3.06	2.60	3.60	1.01
Ford	Escort	82-82	2.99	2.15	4.16	2.00
Ford	Capri	89-94	2.95	2.20	3.96	1.76
Ford	Focus LR	02-05	3.61	2.80	4.66	1.85
Ford	Focus LS / LT	05-09	3.36	2.55	4.44	1.89
Fiat	Regata	84-88	3.87	1.81	8.26	6.45
Holden	Gemini	82-84	2.94	2.48	3.49	1.00
Holden	Gemini RB	86-87	2.76	1.90	4.02	2.12
Holden	Astra TR	96-98	3.02	2.22	4.10	1.88
Holden	Astra TS	98-06	2.87	2.55	3.22	0.67
Holden	Astra AH	04-09	2.91	2.24	3.79	1.55
Holden	Viva JF	05-09	2.82	1.90	4.19	2.29
Hyundai	Excel	86-90	3.44	2.80	4.23	1.43
Hyundai	Excel	90-94	3.17	2.78	3.61	0.82
Hyundai	Excel / Accent	95-00	3.10	2.86	3.35	0.50
Hyundai	Elantra	00-06	3.53	2.81	4.44	1.64
Hyundai	Accent	06-10	3.01	1.27	7.15	5.87
Hyundai	i30	07-10	3.37	1.95	5.82	3.87
Hyundai	S Coupe	90-96	2.70	1.88	3.87	1.99
Hyundai	Lantra	91-95	3.18	2.40	4.23	1.83
Hyundai	Lantra	96-00	3.43	2.90	4.05	1.15
Hyundai	Coupe	96-00	3.01	1.96	4.62	2.66
Hyundai	Accent	00-06	3.29	2.77	3.90	1.14
Mitsubishi	Lancer / Mirage CA	89-90	2.93	2.51	3.41	0.90
Mitsubishi	Lancer / Mirage CB	91-92	4.07	3.07	5.40	2.33
Mitsubishi	Lancer / Mirage CC	93-95	2.66	2.30	3.08	0.77
Mitsubishi	Lancer / Mirage CE	96-03	2.96	2.71	3.25	0.54
Mitsubishi	Cordia	83-87	4.59	3.68	5.74	2.06
Mitsubishi	Lancer CH	03-07	3.17	2.47	4.06	1.59
Mitsubishi	Lancer CJ	08-10	2.24	0.94	5.37	4.43
Kia	Rio	00-05	3.48	2.78	4.36	1.58
Kia	Spectra	01-04	2.76	1.40	5.45	4.05
Kia	Cerato LD	04-08	3.06	1.87	5.02	3.15
Kia	Rio JB	05-10	1.97	1.24	3.11	1.87
Ford / Mazda	Laser / 323 / Familia	82-88	3.08	2.91	3.27	0.36
Mazda	323 / Familia / Lantis	90-93	2.59	2.21	3.04	0.82
Mazda	323 / Familia / Lantis	95-98	2.41	2.04	2.86	0.83
Ford / Mazda	Laser / 323	99-03	2.62	2.26	3.04	0.78
Mazda	MX5 / Eunos Roadster	89-97	2.83	1.57	5.09	3.52

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Mazda	MX5 / Eunos Roadster	98-05	1.30	0.59	2.90	2.31
Mazda	Eunos 30X / Presso / MX-3 / Autozam AZ-3	90-97	2.76	1.54	4.96	3.42
Mazda	3 / Axela	03-09	2.64	2.21	3.15	0.93
Mercedes Benz	A-Class W168	98-04	3.26	1.88	5.67	3.80
Holden / Nissan	Astra / Pulsar / Langley	84-86	3.51	3.12	3.96	0.85
Holden / Nissan	Astra / Pulsar / Vector / Sentra	88-90	3.45	3.13	3.80	0.68
Nissan	Pulsar / Vector / Sentra	92-95	3.37	2.98	3.81	0.83
Nissan	Pulsar / Vector / Sentra	96-99	2.99	2.66	3.36	0.69
Nissan	Stanza	82-83	5.61	3.51	8.97	5.46
Nissan	Gazelle / Silvia	84-86	3.25	2.05	5.14	3.09
Nissan	Exa	83-86	5.43	3.45	8.56	5.11
Nissan	Exa	87-91	6.32	3.61	11.07	7.46
Nissan	NX/NX-R	91-96	5.15	3.75	7.06	3.31
Nissan	Pulsar	00-05	2.43	2.09	2.83	0.74
Nissan	Tiida	06-10	1.60	0.81	3.14	2.33
Honda	Civic	82-83	2.48	1.61	3.82	2.21
Honda	Civic / Ballade / Shuttle	84-87	3.42	2.78	4.20	1.42
Honda	Civic / Shuttle	88-91	2.90	2.46	3.41	0.96
Honda	Civic	92-95	3.40	2.93	3.94	1.01
Honda	Civic	96-00	2.74	2.31	3.24	0.93
Honda	CRX	87-91	3.14	1.93	5.10	3.18
Honda	CRX	92-98	4.80	2.58	8.94	6.36
Honda	Civic	01-05	2.87	2.18	3.78	1.61
Honda	Civic	06-10	2.45	1.72	3.49	1.77
Honda	Integra	86-88	2.32	1.51	3.55	2.04
Honda	Integra	90-92	4.49	3.24	6.21	2.97
Honda	Integra	93-01	2.99	2.20	4.06	1.86
Honda	Integra	02-06	4.71	2.58	8.61	6.03
Honda	Concerto	89-93	3.25	2.17	4.88	2.71
Peugeot	306	94-01	2.74	1.97	3.81	1.83
Peugeot	307	01-09	2.19	1.35	3.53	2.17
Proton	Wira	95-96	3.74	2.78	5.03	2.25
Renault	19	91-96	2.83	1.43	5.59	4.16
Renault	Scenic	01-04	2.89	1.37	6.08	4.71
Rover	Quintet	82-86	1.35	0.45	4.06	3.61
MG	MGF / MG TF	99-05	2.14	0.93	4.95	4.03
Subaru	Impreza	93-00	3.72	3.21	4.31	1.11
Subaru	Impreza	01-07	2.94	2.32	3.73	1.41
Subaru	Impreza	07-10	3.33	1.76	6.31	4.55
Suzuki	Baleno / Cultus Crescent	95-02	1.67	1.15	2.41	1.26
Suzuki	Liana	01-07	2.36	1.30	4.26	2.96
Toyota	Corolla	82-84	2.73	2.43	3.07	0.64
Toyota	Corolla	86-88	3.14	2.87	3.45	0.58
Toyota / Holden	Corolla / Nova	89-93	3.14	2.93	3.37	0.45
Toyota / Holden	Corolla / Nova	94-97	2.78	2.53	3.04	0.50
Toyota	Corolla / Allex	98-01	3.06	2.65	3.54	0.89
Toyota	Corolla	02-07	2.94	2.63	3.28	0.65
Toyota	Corolla	07-10	3.25	2.52	4.20	1.69
Toyota	Tercel	83-88	2.79	1.59	4.90	3.31

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Toyota	MR2	87-90	2.87	1.54	5.34	3.80
Toyota	MR2	91-00	4.09	2.19	7.64	5.46
Toyota	Paseo / Cynos	91-99	3.41	2.54	4.57	2.03
Toyota	Corolla 4WD Wagon	92-96	5.73	3.70	8.87	5.17
Toyota	Prius II	03-09	2.46	1.36	4.45	3.09
Volvo	S40/V40	97-04	3.27	2.09	5.09	3.00
Volkswagen	Golf	82-94	4.21	2.42	7.31	4.88
Volkswagen	Golf	95-98	3.47	2.46	4.89	2.43
Volkswagen	Golf / Bora	99-04	2.87	2.22	3.70	1.48
Volkswagen	New Beetle	00-10	4.64	2.93	7.37	4.44
Volkswagen	Golf / Jetta	04-10	2.93	2.13	4.04	1.91
Light Cars			**2.35**	**2.27**	**2.44**	**0.17**
Daihatsu	Charade	82-86	2.98	2.27	3.91	1.64
Daihatsu	Charade	88-92	2.46	2.08	2.91	0.83
Daihatsu	Charade	93-00	2.94	2.47	3.49	1.03
Daihatsu	Pyzar	97-01	2.82	1.56	5.08	3.52
Daihatsu	Sirion / Storia	98-04	2.12	1.49	3.00	1.51
Daihatsu	Mira	90-96	2.59	1.75	3.85	2.10
Daewoo	Matiz	99-04	2.60	1.72	3.91	2.19
Daewoo	Kalos	03-04	2.42	1.26	4.65	3.39
Ford	Festiva WD/WH/WF	94-01	2.79	2.51	3.11	0.60
Ford	Ka	99-02	2.00	1.13	3.54	2.41
Holden	Barina XC	01-06	3.10	2.50	3.85	1.35
Holden	Barina SB	95-00	2.96	2.55	3.44	0.89
Holden	Barina TK	05-10	2.23	1.55	3.21	1.65
Hyundai	Getz / TB	02-10	3.92	3.28	4.67	1.39
Mitsubishi	Mirage / Colt	82-88	3.12	2.79	3.50	0.71
Mitsubishi	Colt	04-10	2.21	1.18	4.13	2.95
Ford / Mazda	Festiva WA / 121	87-90	2.67	2.29	3.13	0.84
Mazda	121 / Autozam Review	94-96	2.16	1.70	2.74	1.04
Mazda	121 Metro / Demio	97-02	2.27	1.79	2.88	1.09
Mazda	2	02-07	2.97	2.06	4.29	2.23
Mazda	2	07-10	3.10	1.93	4.98	3.05
Nissan	Micra	95-97	2.59	1.68	3.98	2.30
Honda	Jazz / Fit	02-08	2.53	1.89	3.40	1.50
Honda	City	83-86	2.56	1.53	4.26	2.73
Peugeot	205	87-94	1.88	0.76	4.64	3.88
Peugeot	206	99-07	2.43	1.52	3.91	2.40
Renault	Clio	01-08	4.02	1.92	8.38	6.46
Subaru	Sherpa / Fiori / 700 / Rex	89-92	2.35	1.51	3.64	2.13
Suzuki	Swift	82-85	3.28	1.40	7.67	6.27
Holden / Suzuki	Barina / Swift / Cultus	86-88	2.55	2.09	3.13	1.04
Holden / Suzuki	Barina / Swift / Cultus	89-99	2.45	2.20	2.73	0.53
Suzuki	Hatch / Alto	82-84	3.42	2.27	5.16	2.88
Suzuki	Alto	85-00	4.39	2.63	7.32	4.68
Suzuki	Ignis	00-02	2.11	1.26	3.55	2.29
Suzuki	Swift	05-10	2.87	2.17	3.80	1.63
Toyota	Starlet	96-99	2.63	2.18	3.17	0.99

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Toyota	Echo	99-05	2.63	2.25	3.08	0.83
Toyota	Yaris	05-10	2.32	1.81	2.98	1.17
Volkswagen	Polo	96-00	2.16	1.34	3.47	2.13
Volkswagen	Polo	02-10	4.01	2.40	6.71	4.31

AGGRESSIVITY RATINGS
(WITH 90% CONFIDENCE LIMITS)

New South Wales and Victoria Data (1987-2010), South Australia Data (1995-2010), Queensland Data (1991-2009), Western Australia and New Zealand Data (1991-2010)

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
ALL VEHICLE AVERAGE			**3.60**			
Compact Sports Utility Vehicles			**3.23**	**3.09**	**3.38**	**0.29**
Daihatsu	Feroza / Rocky	89-97	4.30	3.22	5.73	2.51
Daihatsu	Rocky / Rugger	85-98	5.03	3.47	7.30	3.83
Daihatsu	Terios	97-05	3.40	2.40	4.83	2.44
Holden	Cruze	02-06	3.26	2.21	4.81	2.61
Hyundai	Tucson	04-10	2.52	1.36	4.69	3.33
Mitsubishi	Outlander	03-06	4.08	2.68	6.22	3.53
Mitsubishi / Peugeot	Outlander / 4007	06-10	2.65	1.49	4.71	3.22
Kia	Sportage	98-03	3.92	2.93	5.24	2.31
Kia	Sorento	03-09	3.41	1.88	6.18	4.31
Ford / Mazda	Escape / Tribute	01-06	4.02	3.25	4.96	1.71
Mazda	CX-7	06-10	4.38	2.56	7.51	4.95
Nissan	X-Trail	01-07	3.68	3.06	4.41	1.35
Lada	Niva	84-99	4.36	2.93	6.50	3.57
Honda	CR-V	97-01	3.44	2.87	4.11	1.24
Honda	CR-V	02-06	3.10	2.49	3.86	1.37
Honda	HR-V	99-02	4.82	3.40	6.85	3.45
Honda	CR-V	07-10	3.64	2.34	5.65	3.31
Land Rover	Freelander	98-06	4.64	2.79	7.69	4.90
Subaru	Forester	08-10	3.61	1.95	6.70	4.75
Subaru	Forester	97-02	2.92	2.35	3.62	1.27
Subaru	Forester	02-08	3.06	2.43	3.86	1.43
Suzuki	Vitara / Escudo	88-98	3.99	3.44	4.64	1.20
Suzuki	Grand Vitara	99-05	3.87	2.86	5.25	2.39
Holden / Suzuki	Drover / Sierra / Samurai / SJ410 / SJ413	82-99	3.57	3.05	4.17	1.12
Suzuki	Jimny	98-10	5.07	3.25	7.92	4.67
Suzuki	Grand Vitara	05-08	1.94	0.92	4.10	3.18
Toyota	RAV4	94-00	4.04	3.49	4.68	1.19
Toyota	RAV4	01-06	4.30	3.65	5.07	1.42
Toyota	RAV4	06-10	3.28	2.47	4.35	1.88
Medium Sports Utility Vehicles			**4.22**	**4.03**	**4.42**	**0.39**
Daewoo / Ssangong	Musso	98-02	4.31	2.77	6.71	3.95
Ford	Territory SX/SY	04-10	3.89	3.18	4.76	1.59
Holden / Isuzu	Jackaroo / Bighorn	82-91	6.05	4.86	7.53	2.67
Holden / Isuzu	Jackaroo / Bighorn	92-97	4.81	3.75	6.16	2.40
Holden / Isuzu	Jackaroo / Bighorn	98-02	5.97	4.66	7.64	2.98

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Holden	Frontera / Mu	95-03	5.19	3.66	7.37	3.72
Holden	Adventra	03-06	3.64	2.30	5.76	3.46
Holden	Captiva CG	06-10	2.81	1.80	4.37	2.57
Hyundai	Santa Fe	00-06	5.42	3.84	7.65	3.81
Hyundai	Terracan	01-07	6.97	4.22	11.51	7.29
Mitsubishi	Pajero	82-90	5.12	4.37	6.01	1.64
Mitsubishi	Pajero	92-99	4.89	4.29	5.57	1.28
Mitsubishi	Pajero NM / NP / NS	00-06	4.11	3.22	5.25	2.03
Mitsubishi	Challenger	98-06	3.32	2.23	4.95	2.72
Jeep	Cherokee XJ	96-00	4.81	3.94	5.88	1.94
Jeep	Wrangler	96-04	5.90	4.30	8.09	3.79
Jeep	Cherokee KJ	01-07	4.20	2.74	6.44	3.70
Land Rover	Defender	92-10	4.23	2.75	6.50	3.75
Nissan	Pathfinder / Terrano	88-94	5.06	4.05	6.31	2.26
Nissan	Pathfinder / Terrano / Regulus	95-05	5.26	4.24	6.52	2.28
Nissan	Pathfinder	05-10	3.07	1.65	5.70	4.05
Toyota	Kluger / Highlander	03-07	3.55	2.57	4.91	2.35
Toyota	Landcruiser Prado	96-03	6.38	5.20	7.82	2.62
Toyota	Landcruiser Prado	03-09	5.27	4.47	6.20	1.73
Lexus	RX330	03-05	4.79	2.72	8.43	5.72
Toyota	Kluger / Highlander	07-10	2.67	1.62	4.40	2.78
Large Sports Utility Vehicles			**5.21**	**5.05**	**5.38**	**0.33**
BMW	X5	01-08	3.06	2.12	4.41	2.29
Ford	Bronco	82-87	7.23	4.53	11.54	7.01
Ford	Explorer	00-01	4.49	3.05	6.61	3.56
Ford	Explorer	01-05	3.65	2.28	5.84	3.56
Jeep	Grand Cherokee ZG	96-99	5.06	3.53	7.26	3.73
Jeep	Grand Cherokee WG	99-05	5.03	3.64	6.95	3.31
Land Rover	Discovery	91-02	3.76	3.00	4.71	1.71
Mercedes Benz	M-Class W163	98-05	4.29	2.96	6.24	3.28
Nissan	Patrol / Safari	82-87	6.59	5.52	7.86	2.34
Nissan / Ford	Patrol / Maverick / Safari	88-97	5.55	5.11	6.02	0.91
Nissan	Patrol / Safari	98-10	5.93	5.37	6.54	1.18
Land Rover	Range Rover	82-94	6.27	4.87	8.07	3.20
Land Rover	Range Rover	95-02	3.67	2.14	6.28	4.14
Toyota	Landcruiser	82-89	6.80	6.28	7.36	1.08
Toyota	Landcruiser	90-97	6.43	6.03	6.86	0.83
Toyota	Landcruiser	98-07	5.91	5.41	6.45	1.05
Commercial - Vans			**4.67**	**4.48**	**4.86**	**0.38**
Daihatsu	Handivan	82-90	2.79	1.92	4.05	2.13
Ford	Falcon Panel Van	82-95	4.03	3.46	4.68	1.22
Ford	Falcon Panel Van	96-99	4.89	3.46	6.93	3.47
Ford	Transit	95-00	4.55	3.58	5.78	2.20
Ford	Transit	01-07	4.42	3.47	5.63	2.16
Holden	Shuttle / WFR Van	82-87	4.10	2.73	6.14	3.40
Kia	Pregio	02-06	5.84	4.47	7.62	3.14

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Mercedes Benz	MB100 / MB140	99-04	4.52	3.04	6.73	3.69
Mercedes Benz	Vito	99-04	5.51	4.01	7.56	3.55
Mercedes Benz	Sprinter	98-06	5.95	4.41	8.02	3.61
Honda	Acty	83-86	1.83	0.90	3.72	2.82
Holden / Suzuki	Scurry / Carry	82-00	2.93	1.85	4.63	2.78
Toyota	Hiace/Liteace	82-86	5.99	5.36	6.70	1.34
Toyota	Hiace/Liteace	87-89	5.98	5.22	6.85	1.63
Toyota	Hiace/Liteace	90-95	6.15	5.60	6.75	1.16
Toyota	Hiace/Liteace	96-04	5.54	5.02	6.11	1.08
Toyota	Hiace	05-10	4.85	3.67	6.40	2.74
Volkswagen	Caravelle / Transporter	88-94	5.26	3.05	9.07	6.01
Volkswagen	Caravelle / Transporter	95-04	6.52	5.01	8.50	3.49
Volkswagen	Caddy	05-10	4.31	2.40	7.71	5.31
Commercial - Utes			**4.22**	**4.12**	**4.32**	**0.20**
Ford / Nissan	Falcon Ute / XFN Ute	82-95	4.54	4.15	4.96	0.81
Ford	Falcon Ute	96-99	4.75	4.01	5.64	1.63
Ford	Falcon Ute AU	00-02	5.05	4.39	5.80	1.41
Ford	Falcon Ute BA/BF	03-08	4.05	3.44	4.76	1.32
Ford	Ford F-Series	82-92	6.37	5.15	7.89	2.74
Ford	F-Series	01-06	6.33	4.25	9.41	5.15
Holden	Commodore Ute VG/VP	90-93	3.24	2.56	4.08	1.52
Holden / Isuzu	Rodeo / Pickup	82-85	4.91	3.66	6.58	2.92
Holden / Isuzu	Rodeo / Pickup	86-88	4.85	3.26	7.21	3.95
Holden / Isuzu	Rodeo / Pickup	89-95	5.61	5.12	6.15	1.03
Holden	Rodeo	96-98	4.69	4.06	5.42	1.36
Holden	Rodeo	99-02	5.21	4.56	5.95	1.39
Holden	WB Series	82-85	4.99	4.11	6.06	1.95
Holden	Commodore Ute VR/VS	94-00	4.66	4.22	5.14	0.92
Holden	Commodore VU Ute	00-02	4.50	3.71	5.46	1.76
Holden	Commodore VY/VZ Ute	02-07	4.81	4.27	5.42	1.15
Holden	Rodeo	03-08	5.00	4.41	5.66	1.25
Holden	Commodore VE Ute	07-10	5.00	3.34	7.49	4.15
Holden	Colorado RC	08-10	4.05	2.03	8.08	6.06
Mitsubishi	Triton MK	96-06	4.51	3.59	5.66	2.07
Mitsubishi	Triton ML / MN	06-10	3.13	2.07	4.74	2.68
Kia	Ceres	92-00	3.47	2.63	4.58	1.96
Ford / Mazda	Courier / B-Series / Bounty	98-02	4.42	3.73	5.24	1.50
Ford / Mazda	Courier / Bravo / Bounty	03-06	3.69	2.99	4.55	1.57
Ford / Mazda	Ranger / BT-50	06-10	4.55	3.57	5.81	2.23
Nissan	720 Ute	82-85	3.81	3.03	4.79	1.76
Nissan	Navara	86-91	5.04	4.47	5.69	1.22
Nissan	Navara	92-96	4.82	4.10	5.68	1.58
Nissan	Navara	97-05	4.74	4.15	5.43	1.28
Nissan	Navara	05-10	4.49	3.45	5.85	2.41
Subaru	Brumby	82-92	4.22	3.33	5.35	2.01
Suzuki	Mighty Boy	85-88	2.39	1.35	4.23	2.88
Toyota	4Runner/Hilux	82-85	5.76	5.15	6.46	1.31
Toyota	4Runner/Hilux	86-88	5.34	4.76	6.00	1.25

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Toyota	4Runner/Hilux	89-97	4.97	4.69	5.27	0.58
Toyota	Hilux	98-02	5.19	4.72	5.71	1.00
Toyota	Hilux	03-04	4.92	4.14	5.84	1.70
Toyota	Hilux	05-10	4.48	3.94	5.09	1.15
Large Cars			**3.46**	**3.40**	**3.51**	**0.11**
BMW	7 Series E23	82-86	2.37	1.09	5.15	4.05
BMW	7 Series E32	87-94	4.11	2.45	6.89	4.43
BMW	7 Series E38	95-01	4.65	2.64	8.20	5.56
Ford	Falcon XE/XF	82-88	4.26	4.08	4.45	0.37
Ford	Fairlane Z & LTD F	82-87	4.13	3.67	4.66	1.00
Ford	Falcon EA / Falcon EB Series I	88-Mar 92	4.18	4.00	4.38	0.38
Ford	Falcon EB Series II / Falcon ED	Apr 92-94	4.24	3.98	4.52	0.54
Ford	Fairlane N & LTD D	88-94	3.65	3.19	4.17	0.97
Ford	Fairlane N & LTD D	95-98	4.63	3.87	5.54	1.67
Ford	Fairlane & LTD AU	99-02	3.50	2.69	4.55	1.87
Ford	Fairlane & LTD BA/BF	03-07	3.05	2.07	4.49	2.42
Ford	Falcon FG	08-10	1.82	1.25	2.65	1.40
Ford	Falcon EF/EL	94-98	4.20	4.02	4.39	0.37
Ford	Falcon AU	98-02	4.13	3.91	4.37	0.46
Ford	Taurus	96-98	4.00	2.78	5.74	2.96
Ford	Falcon BA/BF	02-08	4.08	3.82	4.35	0.54
Holden / Toyota	Commodore VN/VP / Lexcen	89-93	3.69	3.53	3.85	0.32
Holden	Statesman/Caprice WB	82-85	8.30	4.51	15.29	10.79
Holden	Stateman/Caprice VQ	90-93	3.92	2.72	5.67	2.95
Holden	Stateman/Caprice VR/VS	94-98	3.81	3.30	4.39	1.09
Holden / Toyota	Commodore VR/VS / Lexcen	93-97	3.77	3.61	3.94	0.33
Holden	Commodore VT/VX	97-02	4.39	4.20	4.59	0.39
Holden	Statesman/Caprice WH	99-03	4.87	3.92	6.04	2.12
Holden	Commodore VY/VZ	02-07	3.59	3.32	3.87	0.55
Holden	Monaro	01-05	4.62	3.53	6.04	2.52
Holden	Statesman/Caprice WK/WL	03-06	4.11	2.87	5.88	3.01
Holden	Commodore VB-VL	82-88	3.98	3.80	4.17	0.37
Holden	Commodore VE	06-10	3.84	3.39	4.35	0.96
Hyundai	Sonata	89-97	3.95	3.41	4.57	1.16
Hyundai	Grandeaur / XG	99-00	4.22	2.63	6.76	4.14
Mitsubishi	Magna TM/TN/TP / Sigma / V3000	85-90	3.86	3.64	4.10	0.46
Mitsubishi	Magna TE/TF/TH/TJ / Verada KE/KF/KH/KJ / Diamante	96-03	3.77	3.52	4.03	0.51
Mitsubishi	Magna TR/TS / Verada KR/KS / V3000 / Diamante	91-96	3.86	3.65	4.09	0.44
Mitsubishi	Magna TL/TW / Verada KL/KW	03-05	3.56	2.83	4.49	1.66
Mitsubishi	380	05-08	3.18	2.26	4.48	2.23
Jaguar	XJ6	82-86	5.67	3.73	8.63	4.90
Jaguar	XJ6	87-94	4.37	2.87	6.67	3.80
Jaguar	S-Type	99-08	3.05	1.56	5.98	4.42
Mazda	929 / Luce	82-90	3.47	2.94	4.10	1.16
Mazda	929 / Sentia / Efini MS-9	92-96	6.31	4.01	9.94	5.93
Mercedes Benz	E-Class W123	82-85	3.49	2.23	5.45	3.22

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Mercedes Benz	E-Class W124	86-94	3.89	3.05	4.96	1.91
Mercedes Benz	E-Class W210	96-02	3.65	2.64	5.05	2.41
Mercedes Benz	S-Class W126	82-92	2.51	1.75	3.59	1.84
Mercedes Benz	S-Class C140	93-98	4.17	2.39	7.26	4.87
Mercedes Benz	S-Class W220	99-06	4.26	2.06	8.82	6.76
Mercedes Benz	E-Class W211	02-09	3.47	2.20	5.49	3.29
Nissan	Skyline	83-88	4.25	3.80	4.75	0.95
Nissan	300ZX / Fairlady Z	90-95	5.59	4.02	7.77	3.75
Nissan	Maxima	90-94	4.29	3.41	5.38	1.97
Nissan	Maxima / Cefiro	95-99	3.10	2.49	3.85	1.36
Nissan	Maxima	00-02	3.79	2.77	5.19	2.42
Nissan	Maxima	06-09	3.18	2.17	4.65	2.48
Honda	Legend	86-95	4.88	3.74	6.36	2.62
Saab	9-5	98-05	1.58	0.73	3.39	2.66
Toyota	Camry	98-02	3.94	3.68	4.22	0.55
Toyota	Crown / Cressida / Mark II	82-85	4.59	3.82	5.52	1.70
Toyota	Crown / Cressida / Mark II	86-88	3.82	2.80	5.23	2.44
Toyota	Cressida / Mark II	89-93	2.47	1.96	3.12	1.16
Toyota	Supra	82-90	5.82	4.20	8.07	3.87
Lexus	ES300 / Windom	92-01	3.00	2.11	4.25	2.15
Lexus	LS400 / Celsior	90-00	4.69	2.83	7.78	4.96
Toyota	Avalon	00-05	4.57	3.95	5.28	1.33
Toyota	Camry	02-06	3.69	3.30	4.12	0.81
Toyota	Aurion	06-10	3.32	2.46	4.48	2.02
Toyota	Camry	06-10	3.37	2.71	4.18	1.47
Volvo	850/S70/V70/C70	92-99	4.73	3.90	5.72	1.82
Volvo	700/900 Series	84-92	3.67	2.96	4.55	1.59
Medium Cars			**3.05**	**2.99**	**3.12**	**0.12**
Alfa Romeo	156	99-06	2.09	1.23	3.55	2.32
Alfa Romeo	147 / GT	01-10	1.74	0.81	3.73	2.91
Audi	A4	95-01	3.05	2.22	4.19	1.97
Audi	A4	01-08	3.12	2.24	4.34	2.10
BMW	Z3 E36	97-03	3.52	1.96	6.34	4.38
BMW	5 Series E60 / E61	03-10	4.29	2.51	7.35	4.85
BMW	3 Series E90 /E91 /E92 /E93	05-10	3.76	2.59	5.45	2.87
BMW	3 Series E30	82-91	3.16	2.69	3.72	1.03
BMW	3 Series E36	92-98	3.22	2.83	3.66	0.83
BMW	3 Series E46	99-06	3.05	2.55	3.64	1.08
BMW	5 Series E28	82-88	4.19	3.09	5.68	2.59
BMW	5 Series E34	89-95	3.79	2.88	4.98	2.10
BMW	5 Series E39	96-03	2.95	2.13	4.08	1.95
Chrysler	PT Cruiser	00-10	2.86	1.45	5.63	4.18
Daewoo	Espero	95-97	3.88	2.85	5.29	2.44
Daewoo	Leganza	97-02	4.63	3.45	6.22	2.77
Ford	Cortina	82-82	3.97	3.40	4.64	1.24
Ford	Mondeo	95-01	3.53	3.00	4.14	1.14
Ford	Probe	94-98	5.48	3.42	8.77	5.34
Ford	Cougar	99-03	2.36	1.61	3.45	1.84

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Holden	Calibra	94-97	4.91	3.51	6.87	3.36
Holden	Camira	82-89	3.83	3.53	4.15	0.61
Holden	Vectra	97-03	3.69	3.21	4.24	1.03
Holden	Vectra ZC	03-05	3.04	2.03	4.56	2.52
Hyundai	Sonata	98-01	2.92	2.10	4.05	1.95
Hyundai	Sonata EF	02-05	4.59	2.71	7.76	5.05
Mitsubishi	Sigma / Galant / Sapporo / Lambda	82-84	3.59	3.31	3.90	0.58
Mitsubishi	Galant	95-96	3.08	2.50	3.79	1.30
Jaguar	X-Type	02-10	3.92	2.02	7.60	5.58
Ford / Mazda	Telstar / 626 / MX6 / Capella	83-86	3.31	3.03	3.63	0.60
Ford / Mazda	Telstar / 626 / MX6 / Capella	88-91	3.51	3.18	3.88	0.70
Ford / Mazda	Telstar / 626 / MX6 / Capella / Cronos	92-97	2.93	2.62	3.27	0.66
Mazda	626	98-02	3.41	2.85	4.09	1.24
Mazda	RX7	82-85	5.08	3.51	7.36	3.85
Mazda	RX7	86-91	4.25	2.77	6.50	3.72
Mazda	Eunos 500	93-99	3.29	1.98	5.44	3.46
Mazda	6	02-07	2.52	2.03	3.12	1.10
Mazda	RX-8	03-10	2.26	0.97	5.29	4.32
Mercedes Benz	C-Class W201	87-93	3.44	2.51	4.71	2.20
Mercedes Benz	C-Class W202	95-00	2.50	1.91	3.26	1.35
Mercedes Benz	CLK C208	97-03	2.50	1.37	4.57	3.20
Mercedes Benz	C-Class W203	00-07	2.64	1.89	3.67	1.78
Mercedes Benz	CLK C209	03-09	3.47	1.94	6.20	4.26
Nissan	Pintara	86-88	3.56	3.13	4.05	0.92
Nissan / Ford	Pintara / Corsair / Bluebird	89-92	3.89	3.55	4.26	0.70
Nissan	Bluebird	82-86	3.33	3.04	3.65	0.61
Nissan	Bluebird	93-97	2.97	2.50	3.54	1.05
Nissan	200SX / Silvia	94-02	4.24	3.24	5.54	2.30
Nissan	350Z	03-09	5.20	2.94	9.22	6.28
Honda	Accord Euro	03-08	2.96	2.36	3.73	1.37
Honda	Accord	03-07	3.41	2.53	4.61	2.09
Honda	Accord	82-85	2.64	2.16	3.24	1.08
Honda	Accord	86-90	3.69	3.15	4.32	1.17
Honda	Accord	91-93	3.25	2.63	4.01	1.38
Honda	Accord	94-98	3.42	2.95	3.96	1.01
Honda	Accord	99-02	4.18	3.18	5.51	2.33
Honda	Prelude	82-82	2.00	0.80	4.96	4.15
Honda	Prelude	83-91	3.29	2.85	3.79	0.94
Honda	Prelude	92-96	3.02	2.41	3.79	1.37
Honda	Prelude	97-02	4.00	2.95	5.42	2.47
Peugeot	405	89-97	2.77	1.96	3.92	1.96
Peugeot	505	82-93	3.77	2.56	5.56	2.99
Peugeot	406	96-04	1.71	0.92	3.20	2.28
Renault	Feugo	82-87	1.84	0.89	3.78	2.89
Saab	900 Series	82-92	2.24	1.55	3.24	1.69
Saab	900/9-3	94-02	2.96	2.27	3.87	1.60
Saab	9000	86-97	2.91	2.12	4.00	1.87
Saab	9-3	03-10	3.96	2.25	6.97	4.72

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Subaru	1800 / Leone / Omega / 4WD Wagon	82-93	2.86	2.52	3.25	0.73
Subaru	Liberty / Legacy	89-93	3.54	3.16	3.96	0.80
Subaru	Liberty / Legacy / Outback	94-98	4.21	3.67	4.85	1.18
Subaru	Liberty / Legacy / Outback	99-03	3.39	2.88	3.99	1.11
Subaru	Liberty / Legacy / Outback	03-09	2.67	2.08	3.43	1.35
Toyota	Corona	82-88	3.58	3.34	3.84	0.51
Toyota	Camry	83-86	3.51	2.98	4.14	1.17
Holden / Toyota	Apollo JK/JL / Camry / Vista	88-92	3.85	3.65	4.06	0.41
Holden / Toyota	Apollo JM/JP / Camry / Sceptor	93-97	3.78	3.57	4.02	0.45
Toyota	Celica	81-85	4.14	3.48	4.93	1.45
Toyota	Celica	86-89	3.99	3.31	4.81	1.50
Toyota	Celica	90-93	4.33	3.66	5.13	1.47
Toyota	Celica	94-99	3.47	2.73	4.40	1.67
Toyota	Celica	00-05	3.25	2.15	4.90	2.75
Lexus	IS200 / IS300	99-04	3.24	2.14	4.93	2.79
Lexus	IS350 / IS250 / IS F	05-10	2.22	1.07	4.61	3.53
Volvo	200 Series	82-93	3.57	2.98	4.28	1.30
Volvo	S60	01-09	3.86	2.12	7.03	4.92
Volkswagen	Passat	98-06	4.23	2.99	5.99	3.00
People Movers			**3.87**	**3.69**	**4.05**	**0.36**
Chrysler	Voyager	97-01	4.47	3.00	6.66	3.65
Holden	Zafira TT	01-05	3.34	2.07	5.39	3.32
Mitsubishi	Nimbus / Chariot / Spacewagon	85-91	2.58	1.69	3.92	2.22
Mitsubishi	Nimbus / Chariot	92-98	3.77	2.88	4.94	2.06
Mitsubishi	Nimbus	99-03	1.74	0.91	3.31	2.39
Mitsubishi	Starwagon / L300	83-86	5.45	4.70	6.32	1.62
Mitsubishi	Starwagon / Delica Starwagon	87-93	4.61	4.14	5.13	0.99
Mitsubishi	Starwagon / Delica Spacegear	95-98	5.36	4.46	6.46	2.01
Mitsubishi	Starwagon / Delica Spacegear	98-03	4.17	3.35	5.20	1.85
Kia	Carnival	99-06	5.01	3.88	6.47	2.59
Kia	Carnival	06-10	5.33	3.30	8.60	5.31
Mazda	MPV	94-99	5.56	3.57	8.67	5.11
Mazda	MPV	00-06	4.31	2.39	7.77	5.39
Nissan	Prairie	84-86	3.31	2.18	5.03	2.86
Nissan	Serena	92-95	2.47	1.48	4.10	2.61
Honda	Odyssey	95-00	4.48	3.46	5.80	2.35
Honda	Odyssey	00-02	5.57	3.50	8.86	5.37
Honda	Odyssey	04-09	2.22	1.36	3.62	2.27
Toyota	Tarago	83-89	4.66	4.10	5.31	1.21
Toyota	Tarago / Previa / Estima	91-99	4.27	3.68	4.97	1.29
Toyota	Tarago / Previa / Estima	00-06	4.53	3.49	5.88	2.39
Toyota	Tarago	06-10	2.97	1.63	5.41	3.78
Small Cars			**2.63**	**2.59**	**2.68**	**0.09**
Alfa Romeo	33	83-92	1.86	1.14	3.03	1.88
Alfa Romeo	75	86-92	5.10	2.61	9.96	7.34

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Audi	A3/S3	97-04	4.15	2.70	6.39	3.70
Mini	Mini Cooper	02-10	3.54	2.23	5.61	3.38
BMW	1 Series E81 / E82 / E87 / E88	04-10	3.17	1.86	5.39	3.53
Chrysler	Neon	96-99	2.66	1.71	4.15	2.44
Daihatsu	Applause	89-99	2.79	2.29	3.40	1.11
Daewoo	1.5i	94-95	2.48	0.82	7.49	6.67
Daewoo	Cielo	95-97	2.76	2.33	3.26	0.92
Daewoo	Nubira	97-03	3.15	2.65	3.75	1.10
Daewoo	Lanos	97-03	3.27	2.86	3.74	0.88
Daewoo	Lacetti	03-04	2.96	1.39	6.30	4.91
Ford	Laser	91-94	3.02	2.79	3.28	0.49
Ford	Laser	95-97	3.06	2.67	3.51	0.84
Ford	Escort	82-82	2.99	2.27	3.94	1.67
Ford	Capri	89-94	2.95	2.31	3.78	1.47
Ford	Focus LR	02-05	3.61	2.92	4.47	1.55
Ford	Focus LS / LT	05-09	3.36	2.67	4.24	1.57
Fiat	Regata	84-88	3.87	2.05	7.30	5.25
Holden	Gemini	82-84	2.94	2.55	3.39	0.84
Holden	Gemini RB	86-87	2.76	2.02	3.78	1.76
Holden	Astra TR	96-98	3.02	2.34	3.90	1.56
Holden	Astra TS	98-06	2.87	2.60	3.16	0.56
Holden	Astra AH	04-09	2.91	2.34	3.63	1.30
Holden	Viva JF	05-09	2.82	2.02	3.93	1.90
Hyundai	Excel	86-90	3.44	2.90	4.09	1.20
Hyundai	Excel	90-94	3.17	2.84	3.53	0.69
Hyundai	Excel / Accent	95-00	3.10	2.90	3.31	0.41
Hyundai	Elantra	00-06	3.53	2.91	4.28	1.37
Hyundai	Accent	06-10	3.01	1.46	6.21	4.74
Hyundai	i30	07-10	3.37	2.13	5.33	3.19
Hyundai	S Coupe	90-96	2.70	1.99	3.65	1.66
Hyundai	Lantra	91-95	3.18	2.51	4.04	1.53
Hyundai	Lantra	96-00	3.43	2.98	3.94	0.96
Hyundai	Coupe	96-00	3.01	2.10	4.31	2.21
Hyundai	Accent	00-06	3.29	2.85	3.80	0.95
Mitsubishi	Lancer / Mirage CA	89-90	2.93	2.57	3.33	0.75
Mitsubishi	Lancer / Mirage CB	91-92	4.07	3.21	5.16	1.94
Mitsubishi	Lancer / Mirage CC	93-95	2.66	2.36	3.00	0.65
Mitsubishi	Lancer / Mirage CE	96-03	2.96	2.75	3.20	0.45
Mitsubishi	Cordia	83-87	4.59	3.81	5.54	1.72
Mitsubishi	Lancer CH	03-07	3.17	2.58	3.90	1.32
Mitsubishi	Lancer CJ	08-10	2.24	1.08	4.65	3.57
Kia	Rio	00-05	3.48	2.88	4.20	1.32
Kia	Spectra	01-04	2.76	1.56	4.87	3.31
Kia	Cerato LD	04-08	3.06	2.03	4.63	2.60
Kia	Rio JB	05-10	1.97	1.34	2.89	1.55
Ford / Mazda	Laser / 323 / Familia	82-88	3.08	2.93	3.24	0.30
Mazda	323 / Familia / Lantis	90-93	2.59	2.27	2.96	0.69
Mazda	323 / Familia / Lantis	95-98	2.41	2.09	2.78	0.69
Ford / Mazda	Laser / 323	99-03	2.62	2.32	2.97	0.65
Mazda	MX5 / Eunos Roadster	89-97	2.83	1.73	4.63	2.89

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Mazda	MX5 / Eunos Roadster	98-05	1.30	0.67	2.54	1.87
Mazda	Eunos 30X / Presso / MX-3 / Autozam AZ-3	90-97	2.76	1.69	4.51	2.81
Mazda	3 / Axela	03-09	2.64	2.28	3.06	0.78
Mercedes Benz	A-Class W168	98-04	3.26	2.05	5.18	3.13
Holden / Nissan	Astra / Pulsar / Langley	84-86	3.51	3.18	3.89	0.71
Holden / Nissan	Astra / Pulsar / Vector / Sentra	88-90	3.45	3.18	3.74	0.57
Nissan	Pulsar / Vector / Sentra	92-95	3.37	3.04	3.73	0.70
Nissan	Pulsar / Vector / Sentra	96-99	2.99	2.71	3.29	0.58
Nissan	Stanza	82-83	5.61	3.79	8.30	4.52
Nissan	Gazelle / Silvia	84-86	3.25	2.21	4.77	2.56
Nissan	Exa	83-86	5.43	3.71	7.95	4.23
Nissan	Exa	87-91	6.32	3.95	10.10	6.14
Nissan	NX/NX-R	91-96	5.15	3.95	6.71	2.76
Nissan	Pulsar	00-05	2.43	2.14	2.77	0.62
Nissan	Tiida	06-10	1.60	0.91	2.82	1.91
Honda	Civic	82-83	2.48	1.72	3.56	1.83
Honda	Civic / Ballade / Shuttle	84-87	3.42	2.87	4.06	1.19
Honda	Civic / Shuttle	88-91	2.90	2.52	3.32	0.80
Honda	Civic	92-95	3.40	3.00	3.84	0.84
Honda	Civic	96-00	2.74	2.38	3.15	0.78
Honda	CRX	87-91	3.14	2.09	4.71	2.63
Honda	CRX	92-98	4.80	2.86	8.08	5.22
Honda	Civic	01-05	2.87	2.28	3.62	1.34
Honda	Civic	06-10	2.45	1.82	3.29	1.47
Honda	Integra	86-88	2.32	1.62	3.31	1.69
Honda	Integra	90-92	4.49	3.42	5.89	2.47
Honda	Integra	93-01	2.99	2.31	3.86	1.55
Honda	Integra	02-06	4.71	2.85	7.80	4.96
Honda	Concerto	89-93	3.25	2.31	4.56	2.25
Peugeot	306	94-01	2.74	2.08	3.61	1.53
Peugeot	307	01-09	2.19	1.46	3.26	1.80
Proton	Wira	95-96	3.74	2.92	4.79	1.87
Renault	19	91-96	2.83	1.60	5.00	3.41
Renault	Scenic	01-04	2.89	1.55	5.38	3.83
Rover	Quintet	82-86	1.35	0.54	3.40	2.86
MG	MGF / MG TF	99-05	2.14	1.06	4.32	3.26
Subaru	Impreza	93-00	3.72	3.28	4.21	0.93
Subaru	Impreza	01-07	2.94	2.41	3.59	1.17
Subaru	Impreza	07-10	3.33	1.95	5.68	3.73
Suzuki	Baleno / Cultus Crescent	95-02	1.67	1.22	2.27	1.05
Suzuki	Liana	01-07	2.36	1.44	3.87	2.43
Toyota	Corolla	82-84	2.73	2.47	3.01	0.54
Toyota	Corolla	86-88	3.14	2.91	3.40	0.49
Toyota / Holden	Corolla / Nova	89-93	3.14	2.96	3.34	0.37
Toyota / Holden	Corolla / Nova	94-97	2.78	2.57	2.99	0.42
Toyota	Corolla / Allex	98-01	3.06	2.71	3.45	0.74
Toyota	Corolla	02-07	2.94	2.68	3.22	0.54
Toyota	Corolla	07-10	3.25	2.63	4.03	1.41
Toyota	Tercel	83-88	2.79	1.74	4.47	2.73

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Toyota	MR2	87-90	2.87	1.71	4.83	3.12
Toyota	MR2	91-00	4.09	2.42	6.90	4.48
Toyota	Paseo / Cynos	91-99	3.41	2.66	4.36	1.70
Toyota	Corolla 4WD Wagon	92-96	5.73	3.97	8.26	4.29
Toyota	Prius II	03-09	2.46	1.50	4.04	2.54
Volvo	S40/V40	97-04	3.27	2.25	4.74	2.49
Volkswagen	Golf	82-94	4.21	2.65	6.68	4.03
Volkswagen	Golf	95-98	3.47	2.60	4.62	2.02
Volkswagen	Golf / Bora	99-04	2.87	2.31	3.55	1.24
Volkswagen	New Beetle	00-10	4.64	3.16	6.83	3.68
Volkswagen	Golf / Jetta	04-10	2.93	2.24	3.83	1.59
Light Cars			**2.35**	**2.28**	**2.42**	**0.14**
Daihatsu	Charade	82-86	2.98	2.37	3.74	1.36
Daihatsu	Charade	88-92	2.46	2.14	2.83	0.69
Daihatsu	Charade	93-00	2.94	2.54	3.39	0.86
Daihatsu	Pyzar	97-01	2.82	1.72	4.61	2.90
Daihatsu	Sirion / Storia	98-04	2.12	1.58	2.84	1.26
Daihatsu	Mira	90-96	2.59	1.86	3.61	1.74
Daewoo	Matiz	99-04	2.60	1.84	3.66	1.82
Daewoo	Kalos	03-04	2.42	1.40	4.18	2.78
Ford	Festiva WD/WH/WF	94-01	2.79	2.55	3.05	0.50
Ford	Ka	99-02	2.00	1.24	3.23	1.98
Holden	Barina XC	01-06	3.10	2.59	3.71	1.13
Holden	Barina SB	95-00	2.96	2.61	3.35	0.74
Holden	Barina TK	05-10	2.23	1.65	3.02	1.37
Hyundai	Getz / TB	02-10	3.92	3.38	4.54	1.16
Mitsubishi	Mirage / Colt	82-88	3.12	2.84	3.44	0.60
Mitsubishi	Colt	04-10	2.21	1.31	3.73	2.42
Ford / Mazda	Festiva WA / 121	87-90	2.67	2.35	3.05	0.70
Mazda	121 / Autozam Review	94-96	2.16	1.77	2.64	0.87
Mazda	121 Metro / Demio	97-02	2.27	1.86	2.77	0.91
Mazda	2	02-07	2.97	2.19	4.04	1.85
Mazda	2	07-10	3.10	2.08	4.61	2.53
Nissan	Micra	95-97	2.59	1.80	3.71	1.91
Honda	Jazz / Fit	02-08	2.53	1.98	3.24	1.25
Honda	City	83-86	2.56	1.67	3.92	2.25
Peugeot	205	87-94	1.88	0.89	4.01	3.12
Peugeot	206	99-07	2.43	1.64	3.62	1.98
Renault	Clio	01-08	4.02	2.17	7.44	5.27
Subaru	Sherpa / Fiori / 700 / Rex	89-92	2.35	1.62	3.39	1.76
Suzuki	Swift	82-85	3.28	1.61	6.68	5.07
Holden / Suzuki	Barina / Swift / Cultus	86-88	2.55	2.16	3.03	0.87
Holden / Suzuki	Barina / Swift / Cultus	89-99	2.45	2.24	2.68	0.44
Suzuki	Hatch / Alto	82-84	3.42	2.43	4.82	2.39
Suzuki	Alto	85-00	4.39	2.86	6.73	3.87
Suzuki	Ignis	00-02	2.11	1.37	3.26	1.89
Suzuki	Swift	05-10	2.87	2.27	3.63	1.36
Toyota	Starlet	96-99	2.63	2.25	3.07	0.83

Make	Model of Car	Years of Manufacture	Serious injury rate per 100 drivers involved %	Lower 90% Confidence Limit	Upper 90% Confidence Limit	Width of Confidence Interval
Toyota	Echo	99-05	2.63	2.31	3.00	0.69
Toyota	Yaris	05-10	2.32	1.88	2.86	0.98
Volkswagen	Polo	96-00	2.16	1.45	3.21	1.76
Volkswagen	Polo	02-10	4.01	2.61	6.17	3.56

TOTAL SECONDARY SAFETY INDEX OF 1982-2010 MODELS OF CARS INVOLVED IN CRASHES DURING 1987-2010 with 90 % CONFIDENCE LIMITS

TOTAL SECONDARY SAFETY INDEX

(WITH 90% CONFIDENCE LIMITS)

Victoria and New South Wales Data (1987-2010), Queensland Data (1991-2009), Western Australia and New Zealand Data (1991-2010)

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
ALL VEHICLE AVERAGE			**17.04**	**21.42**	**3.65**			
Compact Sports Utility Vehicles			**16.74**	**20.40**	**3.42**	**3.32**	**3.51**	**0.19**
Daihatsu	Feroza / Rocky	89-97	20.95	23.40	4.90	4.11	5.84	1.73
Daihatsu	Rocky / Rugger	85-98	21.61	29.31	6.33	5.18	7.75	2.57
Daihatsu	Terios	97-05	22.57	18.88	4.26	3.51	5.17	1.66
Holden	Cruze	02-06	18.88	22.73	4.29	3.54	5.21	1.67
Hyundai	Tucson	04-10	13.17	24.74	3.26	2.21	4.81	2.60
Mitsubishi	Pajero iO	99-03	16.45	29.88	4.91	2.81	8.60	5.79
Mitsubishi	Outlander	03-06	15.92	21.58	3.44	2.55	4.63	2.09
Mitsubishi / Peugeot	Outlander / 4007	06-10	14.16	13.97	1.98	1.27	3.08	1.81
Kia	Sportage	98-03	19.00	18.12	3.44	2.82	4.21	1.40
Kia	Sorento	03-09	14.11	21.36	3.02	2.10	4.32	2.22
Kia	Sportage KM	05-10	18.74	37.22	6.97	4.75	10.24	5.48
Ford / Mazda	Escape / Tribute	01-06	15.30	21.70	3.32	2.87	3.83	0.96
Mazda	CX-7	06-10	14.64	17.02	2.49	1.60	3.87	2.27
Ford / Mazda	Escape / Tribute	06-10 / 06-08	12.02	12.41	1.49	0.47	4.70	4.23
Nissan	X-Trail	01-07	15.87	20.66	3.28	2.91	3.69	0.78
Lada	Niva	84-99	19.49	23.03	4.49	3.39	5.94	2.54
Honda	CR-V	97-01	14.77	20.50	3.03	2.68	3.43	0.75
Honda	CR-V	02-06	15.27	17.92	2.74	2.36	3.18	0.82
Honda	HR-V	99-02	16.48	28.69	4.73	3.72	6.01	2.29

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Honda	CR-V	07-10	12.56	23.35	2.93	2.18	3.94	1.76
Land Rover	Freelander	98-06	16.52	26.35	4.35	3.14	6.04	2.90
Subaru	Forester	08-10	16.49	21.21	3.50	2.28	5.37	3.09
Subaru	Forester	97-02	15.13	19.22	2.91	2.54	3.33	0.79
Subaru	Forester	02-08	13.84	18.49	2.56	2.20	2.98	0.78
Suzuki	Vitara / Escudo	88-98	20.35	23.76	4.84	4.42	5.29	0.87
Suzuki	Grand Vitara	99-05	17.10	20.01	3.42	2.82	4.15	1.33
Holden / Suzuki	Drover / Sierra / Samurai / SJ410 / SJ413	82-99	23.78	21.78	5.18	4.75	5.65	0.90
Suzuki	Jimny	98-10	21.69	21.94	4.76	3.69	6.13	2.44
Suzuki	Grand Vitara	05-08	15.29	16.83	2.57	1.76	3.75	1.99
Suzuki	SX4	07-10	11.59	17.79	2.06	1.15	3.69	2.53
Suzuki	Grand Vitara JT	08-10	16.03	17.19	2.76	1.23	6.16	4.93
Toyota	RAV4	94-00	17.32	22.68	3.93	3.56	4.34	0.78
Toyota	RAV4	01-06	15.60	21.95	3.42	3.06	3.83	0.76
Toyota	RAV4	06-10	13.17	22.21	2.93	2.43	3.52	1.10
Medium Sports Utility Vehicles			**15.39**	**21.28**	**3.27**	**3.17**	**3.39**	**0.22**
Daewoo / Ssangong	Musso	98-02	12.93	35.04	4.53	3.37	6.09	2.71
Ford	Territory SX/SY	04-10	13.30	20.63	2.74	2.35	3.21	0.87
Holden / Isuzu	Jackaroo / Bighorn	82-91	22.15	20.99	4.65	3.94	5.49	1.56
Holden / Isuzu	Jackaroo / Bighorn	92-97	17.57	21.48	3.77	3.14	4.53	1.39
Holden / Isuzu	Jackaroo / Bighorn	98-02	18.14	24.67	4.47	3.75	5.34	1.59
Holden	Frontera / Mu	95-03	17.41	24.46	4.26	3.33	5.45	2.13
Holden	Adventra	03-06	14.27	19.15	2.73	1.90	3.93	2.02
Holden	Captiva CG	06-10	15.58	13.44	2.09	1.50	2.92	1.41
Hyundai	Santa Fe	00-06	16.82	25.42	4.27	3.33	5.49	2.16
Hyundai	Terracan	01-07	15.55	25.17	3.91	2.61	5.88	3.27
Mitsubishi	Pajero	82-90	20.19	24.95	5.04	4.51	5.62	1.11
Mitsubishi	Pajero	92-99	16.64	23.42	3.90	3.54	4.29	0.75

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Mitsubishi	Pajero NM / NP / NS	00-06	13.33	20.91	2.79	2.32	3.35	1.03
Mitsubishi	Pajero NM / NP / NS	07-10	11.26	29.99	3.38	2.08	5.48	3.40
Mitsubishi	Challenger	98-06	16.40	20.27	3.33	2.57	4.30	1.73
Jeep	Cherokee XJ	96-00	17.37	23.60	4.10	3.55	4.73	1.18
Jeep	Wrangler	96-04	19.83	24.17	4.79	3.77	6.09	2.31
Jeep	Cherokee KJ	01-07	14.92	19.59	2.92	2.13	4.00	1.87
Jeep	Wrangler	05-10	15.39	13.11	2.02	1.08	3.77	2.69
Land Rover	Defender	92-10	16.28	24.64	4.01	3.04	5.30	2.26
Nissan	Pathfinder / Terrano	88-94	17.61	21.33	3.76	3.17	4.46	1.29
Nissan	Pathfinder / Terrano / Regulus	95-05	15.03	21.85	3.28	2.78	3.88	1.09
Nissan	Murano	05-08	13.70	13.46	1.84	0.97	3.52	2.55
Nissan	Pathfinder	05-10	12.37	12.65	1.57	0.96	2.54	1.57
Honda	MDX	03-06	12.33	24.72	3.05	1.64	5.66	4.01
Subaru	Tribeca	06-10	16.00	28.93	4.63	2.43	8.82	6.39
Toyota	Kluger / Highlander	03-07	15.03	20.58	3.09	2.49	3.85	1.36
Toyota	Landcruiser Prado	96-03	15.15	24.62	3.73	3.22	4.32	1.11
Toyota	Landcruiser Prado	03-09	13.33	21.50	2.87	2.52	3.26	0.74
Lexus	RX330	03-05	10.41	34.27	3.57	2.43	5.24	2.81
Lexus	RX350/400h/450h	06-10	8.86	15.11	1.34	0.58	3.08	2.50
Toyota	Kluger / Highlander	07-10	13.86	15.25	2.11	1.45	3.09	1.64
Volvo	XC 90	03-10	11.09	19.13	2.12	1.29	3.50	2.22
Large Sports Utility Vehicles			**15.63**	**23.73**	**3.71**	**3.62**	**3.80**	**0.18**
BMW	X5	01-08	11.02	18.50	2.04	1.51	2.75	1.25
Ford	Bronco	82-87	21.53	30.61	6.59	4.66	9.32	4.66
Ford	Explorer	00-01	19.54	22.85	4.46	3.52	5.66	2.14
Ford	Explorer	01-05	13.82	19.30	2.67	1.93	3.70	1.77
Jeep	Grand Cherokee ZG	96-99	16.63	20.69	3.44	2.56	4.63	2.08
Jeep	Grand Cherokee WG	99-05	13.46	24.57	3.31	2.53	4.33	1.81

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Jeep	Grand Cherokee WH	05-10	14.03	16.86	2.36	1.01	5.56	4.55
Land Rover	Discovery	91-02	15.24	19.54	2.98	2.52	3.52	0.99
Land Rover	Discovery	02-04	13.81	19.97	2.76	1.44	5.29	3.85
Mercedes Benz	M-Class W163	98-05	13.18	19.16	2.52	1.88	3.40	1.52
Mercedes Benz	M-Class W164	05-10	7.62	22.50	1.71	0.90	3.28	2.39
Nissan	Patrol / Safari	82-87	19.28	26.28	5.07	4.42	5.81	1.39
Nissan / Ford	Patrol / Maverick / Safari	88-97	16.27	24.37	3.96	3.72	4.23	0.51
Nissan	Patrol / Safari	98-10	14.49	24.96	3.62	3.34	3.91	0.58
Land Rover	Range Rover	82-94	18.65	22.25	4.15	3.44	5.01	1.57
Land Rover	Range Rover	95-02	14.51	18.06	2.62	1.74	3.94	2.19
Toyota	Landcruiser	82-89	19.26	28.50	5.49	5.18	5.82	0.64
Toyota	Landcruiser	90-97	17.08	26.14	4.47	4.25	4.69	0.45
Toyota	Landcruiser	98-07	15.36	24.77	3.80	3.56	4.06	0.50
Toyota	Landcruiser 200 Series	07-10	11.58	18.47	2.14	1.25	3.66	2.41
Volkswagen	Touareg	03-10	14.14	30.62	4.33	2.55	7.36	4.81
Commercial - Vans			**18.26**	**21.99**	**4.01**	**3.90**	**4.13**	**0.23**
Citroen	Berlingo	99-08	15.12	26.25	3.97	2.10	7.50	5.40
Daihatsu	Handivan	82-90	27.52	26.42	7.27	6.13	8.63	2.50
Daihatsu	Hi-Jet	82-90	35.16	25.42	8.94	6.57	12.16	5.59
Daihatsu	Handivan / Cuore	99-03	22.72	22.26	5.06	3.42	7.49	4.08
Ford	Falcon Panel Van	82-95	18.23	22.21	4.05	3.63	4.51	0.88
Ford	Falcon Panel Van	96-99	16.49	24.35	4.01	3.07	5.25	2.18
Ford	Transit	95-00	18.15	20.68	3.75	3.11	4.52	1.41
Ford	Transit	01-07	14.20	18.55	2.63	2.15	3.23	1.09
Fiat	Ducato	02-07	14.56	23.96	3.49	1.94	6.28	4.35
Holden	Shuttle / WFR Van	82-87	22.95	22.68	5.20	4.05	6.69	2.64
Hyundai	iLoad	08-10	11.82	22.02	2.60	1.39	4.89	3.50
Kia	Pregio	02-06	20.77	22.45	4.66	3.80	5.73	1.93

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Mercedes Benz	MB100 / MB140	99-04	15.15	22.04	3.34	2.41	4.62	2.21
Mercedes Benz	Vito	99-04	15.63	21.37	3.34	2.54	4.38	1.84
Mercedes Benz	Sprinter	98-06	17.40	22.71	3.95	3.11	5.02	1.91
Mercedes Benz	Vito / Viano	04-10	9.90	18.36	1.82	0.92	3.61	2.69
Honda	Acty	83-86	16.28	19.52	3.18	2.20	4.59	2.40
Renault	Kangoo	04-10	19.77	9.94	1.97	0.60	6.42	5.81
Holden / Suzuki	Scurry / Carry	82-00	28.85	26.68	7.70	6.30	9.41	3.11
Suzuki	Carry	99-05	17.26	19.09	3.29	1.81	6.00	4.19
Toyota	Hiace/Liteace	82-86	22.52	26.46	5.96	5.53	6.43	0.90
Toyota	Hiace/Liteace	87-89	21.85	25.03	5.47	4.96	6.02	1.06
Toyota	Hiace/Liteace	90-95	20.69	24.98	5.17	4.81	5.56	0.75
Toyota	Hiace/Liteace	96-04	17.72	22.49	3.98	3.69	4.31	0.62
Toyota	Hiace	05-10	17.09	24.35	4.16	3.39	5.11	1.72
Volkswagen	Caravelle / Transporter	88-94	17.56	22.80	4.01	2.66	6.02	3.36
Volkswagen	Caravelle / Transporter	95-04	19.35	19.26	3.73	2.97	4.68	1.71
Volkswagen	Transporter	04-10	13.89	18.01	2.50	1.33	4.72	3.39
Volkswagen	Caddy	05-10	18.92	19.08	3.61	2.33	5.59	3.26
Commercial - Utes			**16.35**	**22.29**	**3.65**	**3.59**	**3.71**	**0.12**
Ford / Nissan	Falcon Ute / XFN Ute	82-95	18.40	23.67	4.36	4.10	4.63	0.53
Ford	Falcon Ute	96-99	18.25	21.92	4.00	3.55	4.51	0.95
Ford	Falcon Ute AU	00-02	16.61	21.53	3.58	3.22	3.98	0.76
Ford	Falcon Ute BA/BF	03-08	14.79	20.55	3.04	2.70	3.42	0.71
Ford	Ford F-Series	82-92	18.77	24.71	4.64	3.88	5.55	1.67
Ford	F-Series	01-06	14.00	25.20	3.53	2.55	4.89	2.34
Holden	Commodore Ute VG/VP	90-93	17.20	23.78	4.09	3.57	4.69	1.12
Holden / Isuzu	Rodeo / Pickup	82-85	19.61	26.07	5.11	4.20	6.22	2.02
Holden / Isuzu	Rodeo / Pickup	86-88	20.73	19.14	3.97	2.92	5.40	2.48
Holden / Isuzu	Rodeo / Pickup	89-95	19.09	26.56	5.07	4.75	5.41	0.66

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Holden	Rodeo	96-98	17.76	22.10	3.93	3.54	4.35	0.81
Holden	Rodeo	99-02	17.26	24.45	4.22	3.84	4.63	0.79
Holden	WB Series	82-85	18.39	28.81	5.30	4.66	6.02	1.36
Holden	Commodore Ute VR/VS	94-00	17.33	25.24	4.37	4.10	4.66	0.56
Holden	Commodore VU Ute	00-02	15.08	24.03	3.62	3.20	4.11	0.91
Holden	Commodore VY/VZ Ute	02-07	15.05	23.25	3.50	3.22	3.80	0.59
Holden	Rodeo	03-08	16.97	20.40	3.46	3.16	3.80	0.64
Holden	Commodore VE Ute	07-10	14.22	23.21	3.30	2.42	4.49	2.07
Holden	Colorado RC	08-10	16.05	14.79	2.37	1.44	3.93	2.49
Mitsubishi	Triton MK	96-06	15.81	21.09	3.33	2.80	3.97	1.17
Mitsubishi	Triton ML / MN	06-10	14.29	17.67	2.53	1.92	3.33	1.41
Kia	Ceres	92-00	18.48	27.57	5.10	4.37	5.94	1.58
Kia	K2700	02-08	14.56	30.70	4.47	2.97	6.72	3.75
Ford / Mazda	Courier / B-Series / Bounty	98-02	15.79	22.75	3.59	3.18	4.06	0.88
Ford / Mazda	Courier / Bravo / Bounty	03-06	17.05	19.57	3.34	2.89	3.85	0.96
Ford / Mazda	Ranger / BT-50	06-10	15.15	20.46	3.10	2.61	3.68	1.07
Nissan	720 Ute	82-85	19.15	21.13	4.05	3.50	4.68	1.19
Nissan	Navara	86-91	18.21	24.32	4.43	4.06	4.83	0.77
Nissan	Navara	92-96	18.18	23.31	4.24	3.76	4.77	1.01
Nissan	Navara	97-05	14.33	23.84	3.42	3.09	3.78	0.70
Nissan	Navara	05-10	13.51	23.04	3.11	2.55	3.80	1.25
Proton	Jumbuck	03-10	13.71	18.22	2.50	1.41	4.42	3.01
Subaru	Brumby	82-92	20.19	28.59	5.77	5.12	6.50	1.38
Suzuki	Mighty Boy	85-88	29.31	25.20	7.39	5.94	9.19	3.25
Toyota	4Runner/Hilux	82-85	19.65	25.99	5.11	4.74	5.50	0.75
Toyota	4Runner/Hilux	86-88	18.74	25.94	4.86	4.50	5.25	0.75
Toyota	4Runner/Hilux	89-97	18.00	24.47	4.40	4.23	4.59	0.36
Toyota	Hilux	98-02	16.37	22.52	3.69	3.43	3.96	0.52
Toyota	Hilux	03-04	15.63	22.80	3.56	3.15	4.03	0.88
Toyota	Hilux	05-10	14.26	21.03	3.00	2.72	3.30	0.58

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Large Cars			**16.58**	**21.07**	**3.49**	**3.46**	**3.53**	**0.07**
BMW	7 Series E23	82-86	15.15	19.03	2.88	1.75	4.76	3.02
BMW	7 Series E32	87-94	17.77	25.35	4.51	3.29	6.17	2.87
BMW	7 Series E38	95-01	15.96	17.21	2.75	1.71	4.42	2.71
BMW	7 Series E65	02-08	12.44	33.71	4.19	2.10	8.40	6.30
Chrysler	300C	06-10	12.91	23.35	3.01	1.68	5.40	3.72
Ford	Falcon XE/XF	82-88	18.86	24.11	4.55	4.41	4.68	0.27
Ford	Fairlane Z & LTD F	82-87	18.44	24.09	4.44	4.11	4.80	0.69
Ford	Falcon EA / Falcon EB Series I	88-Mar 92	18.29	23.36	4.27	4.14	4.41	0.27
Ford	Falcon EB Series II / Falcon ED	Apr 92-94	17.50	23.24	4.07	3.89	4.25	0.36
Ford	Fairlane N & LTD D	88-94	15.64	22.64	3.54	3.24	3.86	0.62
Ford	Fairlane N & LTD D	95-98	17.16	23.44	4.02	3.54	4.56	1.02
Ford	Fairlane & LTD AU	99-02	16.44	20.32	3.34	2.76	4.05	1.29
Ford	Fairlane & LTD BA/BF	03-07	13.64	20.53	2.80	2.08	3.76	1.68
Ford	Falcon FG	08-10	12.00	12.79	1.53	1.16	2.02	0.86
Ford	Falcon EF/EL	94-98	17.59	21.91	3.85	3.73	3.98	0.24
Ford	Falcon AU	98-02	17.14	21.31	3.65	3.51	3.80	0.29
Ford	Taurus	96-98	18.42	22.52	4.15	3.26	5.28	2.02
Ford	Falcon BA/BF	02-08	15.57	20.60	3.21	3.06	3.37	0.31
Holden / Toyota	Commodore VN/VP / Lexcen	89-93	18.17	23.96	4.35	4.23	4.48	0.24
Holden	Statesman/Caprice WB	82-85	19.79	41.65	8.24	5.88	11.57	5.69
Holden	Stateman/Caprice VQ	90-93	16.44	27.12	4.46	3.59	5.54	1.96
Holden	Stateman/Caprice VR/VS	94-98	16.22	23.36	3.79	3.45	4.16	0.71
Holden / Toyota	Commodore VR/VS / Lexcen	93-97	17.30	22.87	3.96	3.84	4.07	0.23
Holden	Commodore VT/VX	97-02	17.51	21.78	3.81	3.69	3.94	0.24
Holden	Statesman/Caprice WH	99-03	17.28	21.37	3.69	3.14	4.34	1.20
Holden	Commodore VY/VZ	02-07	16.33	18.98	3.10	2.94	3.27	0.33
Holden	Monaro	01-05	16.85	23.58	3.97	3.27	4.83	1.56

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Holden	Statesman/Caprice WK/WL	03-06	15.56	22.06	3.43	2.66	4.43	1.77
Holden	Commodore VB-VL	82-88	19.42	24.75	4.81	4.67	4.95	0.29
Holden	Commodore VE	06-10	15.64	19.72	3.08	2.82	3.38	0.56
Holden	Statesman/Caprice WM	06-10	14.42	17.68	2.55	1.37	4.76	3.39
Hyundai	Sonata	89-97	18.68	21.80	4.07	3.69	4.50	0.81
Hyundai	Grandeaur / XG	99-00	17.91	16.37	2.93	1.97	4.37	2.40
Mitsubishi	Magna TM/TN/TP / Sigma / V3000	85-90	19.12	23.87	4.56	4.39	4.74	0.35
Mitsubishi	Magna TE/TF/TH/TJ / Verada KE/KF/KH/KJ / Diamante	96-03	17.42	21.55	3.75	3.58	3.94	0.36
Mitsubishi	Magna TR/TS / Verada KR/KS / V3000 / Diamante	91-96	18.19	21.88	3.98	3.82	4.15	0.32
Mitsubishi	Magna TL/TW / Verada KL/KW	03-05	16.26	19.53	3.18	2.70	3.74	1.05
Mitsubishi	380	05-08	14.80	17.25	2.55	1.96	3.33	1.38
Jaguar	XJ6	82-86	20.25	30.35	6.15	4.61	8.20	3.59
Jaguar	XJ6	87-94	17.17	17.53	3.01	2.17	4.17	1.99
Jaguar	XJ6	95-97	13.20	31.83	4.20	2.46	7.17	4.71
Jaguar	XJS	82-96	19.68	15.49	3.05	1.16	8.01	6.86
Jaguar	S-Type	99-08	13.34	14.16	1.89	1.11	3.22	2.11
Kia	Optima	01-06	18.98	20.21	3.83	2.14	6.87	4.74
Mazda	929 / Luce	82-90	20.07	22.45	4.51	4.08	4.98	0.90
Mazda	929 / Sentia / Efini MS-9	92-96	17.75	31.42	5.58	4.06	7.66	3.60
Mercedes Benz	E-Class W123	82-85	16.68	20.04	3.34	2.40	4.66	2.26
Mercedes Benz	E-Class W124	86-94	16.13	23.40	3.77	3.17	4.50	1.33
Mercedes Benz	E-Class W210	96-02	15.12	19.00	2.87	2.25	3.68	1.43
Mercedes Benz	S-Class W126	82-92	15.47	18.71	2.90	2.27	3.69	1.41
Mercedes Benz	S-Class R129	93-02	13.54	9.79	1.32	0.40	4.39	3.99
Mercedes Benz	S-Class C140	93-98	12.42	25.26	3.14	1.99	4.95	2.97
Mercedes Benz	S-Class W220	99-06	14.97	17.96	2.69	1.45	4.99	3.54
Mercedes Benz	E-Class W211	02-09	13.98	21.13	2.95	2.04	4.28	2.24
Nissan	Skyline	83-88	19.28	23.73	4.57	4.26	4.91	0.65
Nissan	300ZX / Fairlady Z	90-95	20.65	24.02	4.96	3.98	6.18	2.20

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Nissan	Maxima	90-94	18.31	22.68	4.15	3.55	4.86	1.31
Nissan	Maxima / Cefiro	95-99	18.03	19.66	3.54	3.06	4.10	1.04
Nissan	Maxima	00-02	17.41	22.40	3.90	3.15	4.84	1.69
Nissan	300C / Laurel	85-87	20.99	26.22	5.50	3.06	9.90	6.84
Nissan	Maxima	06-09	14.73	18.45	2.72	2.05	3.59	1.54
Honda	Legend	86-95	16.77	23.03	3.86	3.19	4.68	1.49
Honda	Legend	96-98	10.71	15.88	1.70	0.71	4.10	3.39
Honda	Legend	99-04	15.57	44.23	6.89	3.82	12.41	8.59
Rover	3500	82-87	21.02	17.52	3.68	2.22	6.11	3.89
Saab	9-5	98-05	16.31	13.08	2.13	1.29	3.52	2.23
Toyota	Camry	98-02	17.19	21.24	3.65	3.47	3.84	0.37
Toyota	Crown / Cressida / Mark II	82-85	19.73	25.00	4.93	4.38	5.55	1.17
Toyota	Crown / Cressida / Mark II	86-88	15.48	27.86	4.31	3.53	5.26	1.73
Toyota	Cressida / Mark II	89-93	15.58	18.79	2.93	2.53	3.39	0.86
Toyota	Supra	82-90	21.53	26.59	5.73	4.62	7.10	2.48
Lexus	ES300 / Windom	92-01	17.85	19.36	3.46	2.75	4.34	1.59
Lexus	LS400 / Celsior	90-00	14.83	21.81	3.23	2.17	4.83	2.66
Lexus	GS300	97-04	12.65	17.72	2.24	1.12	4.48	3.36
Toyota	Avalon	00-05	16.69	21.68	3.62	3.25	4.03	0.77
Toyota	Camry	02-06	16.70	18.99	3.17	2.94	3.43	0.49
Toyota	Aurion	06-10	14.30	18.63	2.66	2.14	3.31	1.17
Toyota	Camry	06-10	14.44	20.84	3.01	2.59	3.50	0.91
Volvo	850/S70/V70/C70	92-99	17.07	22.63	3.86	3.35	4.46	1.11
Volvo	700/900 Series	84-92	16.92	19.63	3.32	2.85	3.87	1.03
Volvo	960/S90/V90	90-98	17.99	26.03	4.68	2.89	7.59	4.70
Volvo	S80	98-06	14.85	9.16	1.36	0.51	3.62	3.11
Volvo	V70 / XC70	00-07	14.97	12.29	1.84	0.86	3.95	3.10

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Medium Cars			**16.90**	**20.62**	**3.49**	**3.44**	**3.53**	**0.09**
Alfa Romeo	164	89-92	19.01	33.19	6.31	3.87	10.29	6.42
Alfa Romeo	156	99-06	14.80	19.35	2.86	2.01	4.08	2.07
Alfa Romeo	GTV / Spider	98-04	14.33	20.02	2.87	1.36	6.03	4.67
Alfa Romeo	147 / GT	01-10	13.37	20.80	2.78	1.71	4.52	2.81
Audi	A4	95-01	15.27	21.81	3.33	2.68	4.14	1.45
Audi	TT	99-06	12.78	17.14	2.19	1.12	4.30	3.19
Audi	A4	01-08	13.60	18.60	2.53	1.94	3.30	1.36
BMW	Z3 E36	97-03	14.50	22.94	3.33	2.25	4.92	2.68
BMW	5 Series E60 / E61	03-10	14.51	22.51	3.27	2.13	5.01	2.87
BMW	3 Series E90 /E91 /E92 /E93	05-10	16.47	16.74	2.76	2.03	3.74	1.71
BMW	3 Series E30	82-91	17.08	22.38	3.82	3.45	4.23	0.78
BMW	3 Series E36	92-98	16.44	21.16	3.48	3.19	3.79	0.61
BMW	3 Series E46	99-06	16.33	19.66	3.21	2.84	3.62	0.78
BMW	5 Series E28	82-88	16.11	23.17	3.73	3.00	4.65	1.65
BMW	5 Series E34	89-95	15.97	23.16	3.70	3.05	4.48	1.42
BMW	5 Series E39	96-03	13.63	19.28	2.63	2.08	3.31	1.23
Chrysler	PT Cruiser	00-10	15.24	21.87	3.33	2.08	5.34	3.26
Citroen	Xantia	94-00	14.88	24.96	3.71	2.04	6.75	4.71
Citroen	C5	01-08	14.13	14.29	2.02	0.91	4.48	3.58
Daewoo	Espero	95-97	21.91	24.05	5.27	4.40	6.31	1.90
Daewoo	Leganza	97-02	18.40	22.62	4.16	3.40	5.10	1.70
Daewoo	Tacuma	00-04	19.12	30.75	5.88	3.79	9.13	5.34
Ford	Cortina	82-82	19.94	24.20	4.83	4.22	5.52	1.31
Ford	Mondeo	95-01	16.27	20.12	3.27	2.92	3.67	0.75
Ford	Mondeo	07-10	15.03	15.42	2.32	1.20	4.49	3.29
Ford	Probe	94-98	19.89	26.59	5.29	3.87	7.22	3.35
Ford	Cougar	99-03	15.79	16.86	2.66	2.09	3.39	1.29

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Holden	Calibra	94-97	17.97	25.08	4.51	3.54	5.75	2.21
Holden	Camira	82-89	22.50	23.06	5.19	4.95	5.44	0.49
Holden	Vectra	97-03	17.14	20.16	3.45	3.13	3.81	0.68
Holden	Vectra ZC	03-05	16.40	17.67	2.90	2.19	3.82	1.63
Hyundai	Sonata	98-01	17.55	20.99	3.68	2.99	4.54	1.54
Hyundai	Sonata EF	02-05	18.56	21.59	4.01	2.65	6.07	3.42
Hyundai	Tiburon	02-10	19.99	16.50	3.30	1.60	6.78	5.17
Hyundai	Sonata NF	05-10	19.02	10.02	1.91	0.88	4.13	3.25
Mitsubishi	Sigma / Galant / Sapporo / Lambda	82-84	19.89	23.16	4.61	4.37	4.85	0.48
Mitsubishi	Starion	82-87	19.69	35.01	6.89	4.99	9.52	4.53
Mitsubishi	Galant	95-96	18.96	20.70	3.92	3.44	4.47	1.03
Jaguar	X-Type	02-10	13.02	14.74	1.92	1.06	3.49	2.43
Kia	Credos	98-01	23.33	25.51	5.95	3.58	9.88	6.30
Ford / Mazda	Telstar / 626 / MX6 / Capella	83-86	19.48	21.67	4.22	3.99	4.46	0.47
Ford / Mazda	Telstar / 626 / MX6 / Capella	88-91	17.71	22.95	4.06	3.81	4.33	0.52
Ford / Mazda	Telstar / 626 / MX6 / Capella / Cronos	92-97	15.81	22.83	3.61	3.36	3.88	0.52
Mazda	626	98-02	15.83	21.52	3.41	3.01	3.86	0.85
Mazda	RX7	82-85	20.65	28.20	5.82	4.72	7.19	2.47
Mazda	RX7	86-91	18.50	21.40	3.96	3.00	5.23	2.23
Mazda	RX7	92-98	16.74	25.68	4.30	2.35	7.86	5.50
Mazda	Eunos 500	93-99	21.25	19.14	4.07	2.93	5.64	2.71
Mazda	Eunos 800	94-00	17.71	27.28	4.83	3.01	7.76	4.76
Mazda	6	02-07	15.46	16.13	2.49	2.16	2.88	0.72
Mazda	RX-8	03-10	15.24	9.80	1.49	0.79	2.83	2.04
Mazda	6	08-10	14.16	17.67	2.50	1.58	3.96	2.38
Mercedes Benz	C-Class W201	87-93	16.66	23.28	3.88	3.16	4.76	1.60
Mercedes Benz	C-Class W202	95-00	13.75	21.08	2.90	2.42	3.47	1.05
Mercedes Benz	CLK C208	97-03	15.27	20.32	3.10	2.05	4.69	2.63
Mercedes Benz	SLK R170	97-04	16.82	19.75	3.32	1.95	5.67	3.73
Mercedes Benz	C-Class W203	00-07	14.42	18.49	2.67	2.10	3.39	1.29

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Mercedes Benz	CLK C209	03-09	13.23	19.58	2.59	1.64	4.10	2.46
Mercedes Benz	C-Class W204	07-10	12.60	9.95	1.25	0.58	2.72	2.15
Nissan	Pintara	86-88	18.61	23.40	4.35	4.02	4.72	0.70
Nissan / Ford	Pintara / Corsair / Bluebird	89-92	19.77	24.13	4.77	4.51	5.05	0.54
Nissan	Bluebird	82-86	20.23	24.21	4.90	4.65	5.16	0.51
Nissan	280ZX	82-84	17.88	30.68	5.49	3.38	8.90	5.52
Nissan	Bluebird	93-97	16.05	21.72	3.49	3.11	3.90	0.79
Nissan	200SX / Silvia	94-02	15.42	24.75	3.81	3.22	4.52	1.30
Nissan	350Z	03-09	19.31	27.17	5.25	3.68	7.48	3.80
Honda	Accord Euro	03-08	14.98	19.81	2.97	2.52	3.50	0.98
Honda	Accord	03-07	15.47	17.84	2.76	2.22	3.44	1.22
Honda	Accord	82-85	20.24	22.95	4.65	4.20	5.14	0.94
Honda	Accord	86-90	17.41	23.62	4.11	3.73	4.54	0.81
Honda	Accord	91-93	15.75	22.58	3.56	3.10	4.07	0.97
Honda	Accord	94-98	16.38	21.62	3.54	3.21	3.91	0.70
Honda	Accord	99-02	16.58	18.91	3.14	2.53	3.89	1.36
Honda	Accord	08-10	12.24	28.62	3.50	2.33	5.26	2.93
Honda	Accord Euro	08-10	10.34	17.23	1.78	0.81	3.89	3.08
Honda	Prelude	82-82	17.21	18.04	3.11	1.84	5.24	3.40
Honda	Prelude	83-91	18.03	23.97	4.32	3.98	4.69	0.72
Honda	Prelude	92-96	16.32	23.61	3.85	3.35	4.43	1.07
Honda	Prelude	97-02	16.77	20.16	3.38	2.71	4.22	1.52
Peugeot	407	04-10	12.62	12.20	1.54	0.75	3.16	2.41
Peugeot	405	89-97	15.18	22.92	3.48	2.80	4.33	1.53
Peugeot	505	82-93	13.70	21.91	3.00	2.32	3.89	1.57
Peugeot	406	96-04	9.58	23.01	2.20	1.50	3.24	1.75
Porsche	944	82-91	15.89	32.43	5.15	2.93	9.05	6.12
Renault	Feugo	82-87	17.39	19.16	3.33	2.30	4.83	2.53
Rover	75	01-05	15.19	22.81	3.46	1.93	6.21	4.27
Saab	900 Series	82-92	16.39	20.44	3.35	2.73	4.11	1.38

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Saab	900/9-3	94-02	14.99	17.62	2.64	2.17	3.21	1.04
Saab	9000	86-97	16.25	16.65	2.71	2.15	3.40	1.25
Saab	9-3	03-10	15.28	22.67	3.46	2.33	5.15	2.82
Subaru	1800 / Leone / Omega / 4WD Wagon	82-93	19.81	21.56	4.27	3.98	4.58	0.60
Subaru	Liberty / Legacy	89-93	18.07	21.57	3.90	3.62	4.19	0.57
Subaru	Liberty / Legacy / Outback	94-98	16.13	23.41	3.77	3.43	4.15	0.72
Subaru	Liberty / Legacy / Outback	99-03	14.65	19.95	2.92	2.61	3.28	0.67
Subaru	Liberty / Legacy / Outback	03-09	12.97	18.94	2.46	2.08	2.91	0.83
Toyota	Corona	82-88	19.86	23.50	4.67	4.46	4.88	0.42
Toyota	Camry	83-86	19.91	22.88	4.55	4.12	5.04	0.92
Holden / Toyota	Apollo JK/JL / Camry / Vista	88-92	18.49	22.34	4.13	3.98	4.28	0.30
Holden / Toyota	Apollo JM/JP / Camry / Sceptor	93-97	18.68	22.90	4.28	4.11	4.45	0.34
Toyota	Celica	81-85	21.16	21.15	4.48	3.99	5.02	1.03
Toyota	Celica	86-89	18.83	22.80	4.29	3.79	4.86	1.07
Toyota	Celica	90-93	19.13	24.82	4.75	4.25	5.30	1.05
Toyota	Celica	94-99	19.12	19.91	3.81	3.25	4.46	1.20
Toyota	Celica	00-05	15.44	23.25	3.59	2.73	4.73	2.00
Lexus	IS200 / IS300	99-04	15.10	16.80	2.54	1.82	3.53	1.71
Lexus	IS350 / IS250 / IS F	05-10	12.82	17.39	2.23	1.34	3.71	2.36
Volvo	200 Series	82-93	15.36	23.23	3.57	3.16	4.03	0.87
Volvo	S60	01-09	12.96	20.45	2.65	1.64	4.29	2.65
Volkswagen	Passat	98-06	13.43	23.24	3.12	2.38	4.10	1.72
Volkswagen	Passat	06-10	14.28	16.85	2.41	1.40	4.12	2.72
People Movers			**17.82**	**21.38**	**3.81**	**3.69**	**3.93**	**0.24**
Chrysler	Voyager	97-01	16.76	17.91	3.00	2.16	4.17	2.00
Chrysler	Grand Voyager RG	01-07	16.63	10.57	1.76	0.66	4.67	4.01
Ford	Spectron	86-90	23.46	18.65	4.37	2.19	8.73	6.53
Holden	Zafira TT	01-05	14.85	23.11	3.43	2.47	4.78	2.31

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Mitsubishi	Nimbus / Chariot / Spacewagon	85-91	20.16	20.52	4.14	3.31	5.18	1.87
Mitsubishi	Nimbus / Chariot	92-98	18.04	23.88	4.31	3.60	5.16	1.57
Mitsubishi	Nimbus	99-03	12.43	11.96	1.49	0.87	2.54	1.67
Mitsubishi	Starwagon / L300	83-86	24.95	26.66	6.65	6.08	7.28	1.20
Mitsubishi	Starwagon / Delica Starwagon	87-93	21.37	23.01	4.92	4.57	5.29	0.73
Mitsubishi	Starwagon / Delica Spacegear	95-98	21.05	21.03	4.43	3.83	5.11	1.28
Mitsubishi	Starwagon / Delica Spacegear	98-03	17.55	23.75	4.17	3.57	4.87	1.30
Mitsubishi	Grandis	04-10	11.45	24.57	2.81	1.39	5.68	4.29
Kia	Carens	00-02	22.83	23.49	5.36	2.73	10.53	7.80
Kia	Carnival	99-06	15.89	21.60	3.43	2.85	4.14	1.29
Kia	Carnival	06-10	13.56	19.50	2.64	1.77	3.96	2.20
Mazda	MPV	94-99	16.82	20.99	3.53	2.42	5.15	2.73
Mazda	MPV	00-06	11.64	23.70	2.76	1.69	4.49	2.80
Nissan	Prairie	84-86	21.18	22.52	4.77	3.75	6.06	2.31
Nissan	Serena	92-95	14.93	16.92	2.53	1.78	3.59	1.81
Honda	Odyssey	95-00	15.87	20.81	3.30	2.69	4.05	1.35
Honda	Odyssey	00-02	13.88	26.63	3.70	2.54	5.39	2.85
Honda	Odyssey	04-09	13.89	12.26	1.70	1.14	2.53	1.39
Toyota	Tarago	83-89	21.99	25.92	5.70	5.27	6.17	0.90
Toyota	Tarago / Previa / Estima	91-99	16.17	22.42	3.62	3.24	4.05	0.81
Toyota	Tarago / Previa / Estima	00-06	13.87	23.31	3.23	2.65	3.95	1.30
Toyota	Spacia	93-00	17.17	21.46	3.69	2.28	5.96	3.68
Toyota	Avensis Verso	01-10	14.20	39.06	5.55	3.73	8.25	4.52
Toyota	Tarago	06-10	16.06	14.57	2.34	1.48	3.71	2.24
Small Cars			**17.78**	**20.46**	**3.64**	**3.60**	**3.68**	**0.08**
Alfa Romeo	33	83-92	16.76	23.74	3.98	3.10	5.10	2.00
Alfa Romeo	75	86-92	19.80	21.03	4.16	2.50	6.92	4.41
Alfa Romeo	90	85-88	13.18	42.78	5.64	3.01	10.57	7.56

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Alfa Romeo	GTV	82-84	17.23	47.53	8.19	5.49	12.23	6.74
Alfa Romeo	Sprint	82-88	20.22	19.70	3.99	2.23	7.13	4.90
Alfa Romeo	Alfasud	82-84	23.18	31.53	7.31	4.46	11.98	7.52
Audi	A3	04-09	11.31	16.54	1.87	0.91	3.85	2.94
Audi	A3/S3	97-04	16.51	19.61	3.24	2.32	4.51	2.18
Mini	Mini Cooper	02-10	15.74	19.84	3.12	2.29	4.26	1.97
BMW	1 Series E81 / E82 / E87 / E88	04-10	15.87	16.52	2.62	1.72	3.99	2.26
Chrysler	Neon	96-99	17.15	19.67	3.37	2.54	4.48	1.95
Chrysler	Neon	00-02	17.90	23.98	4.29	2.57	7.17	4.60
Citroen	BX	86-94	6.69	16.69	1.12	0.56	2.25	1.69
Citroen	C4	05-10	17.29	26.27	4.54	2.67	7.74	5.07
Citroen	Xsara	00-05	24.91	15.50	3.86	1.90	7.83	5.93
Daihatsu	Applause	89-99	20.16	20.78	4.19	3.74	4.69	0.95
Daewoo	1.5i	94-95	25.08	20.18	5.06	3.13	8.17	5.04
Daewoo	Cielo	95-97	20.25	20.42	4.14	3.76	4.54	0.78
Daewoo	Nubira	97-03	17.79	21.03	3.74	3.36	4.17	0.81
Daewoo	Lanos	97-03	19.85	22.03	4.37	4.04	4.73	0.69
Daewoo	Lacetti	03-04	17.77	21.28	3.78	2.40	5.96	3.57
Ford	Laser	91-94	19.22	21.94	4.22	4.02	4.43	0.41
Ford	Laser	95-97	17.91	23.41	4.19	3.86	4.55	0.69
Ford	Escort	82-82	19.04	17.96	3.42	2.60	4.50	1.90
Ford	Capri	89-94	23.10	20.80	4.81	4.18	5.52	1.34
Ford	Focus LR	02-05	17.37	18.69	3.25	2.80	3.76	0.96
Ford	Focus LS / LT	05-09	14.71	21.49	3.16	2.71	3.68	0.97
Fiat	Regata	84-88	16.09	30.09	4.84	3.27	7.18	3.91
Holden / Isuzu	Piazza	86-88	17.21	20.87	3.59	1.73	7.45	5.72
Holden	Gemini	82-84	21.22	23.00	4.88	4.54	5.26	0.72
Holden	Gemini RB	86-87	22.87	21.66	4.95	4.21	5.83	1.63
Holden	Astra TR	96-98	16.79	20.85	3.50	2.97	4.13	1.15
Holden	Astra TS	98-06	16.44	18.60	3.06	2.87	3.26	0.39

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Holden	Astra AH	04-09	15.99	18.27	2.92	2.53	3.37	0.85
Holden	Viva JF	05-09	16.24	19.15	3.11	2.53	3.82	1.29
Holden	Cruze JG	09-10	17.24	16.88	2.91	1.77	4.77	3.00
Hyundai	Excel	86-90	22.96	24.43	5.61	5.12	6.14	1.02
Hyundai	Excel	90-94	21.23	23.83	5.06	4.77	5.37	0.60
Hyundai	Excel / Accent	95-00	20.61	22.40	4.62	4.44	4.80	0.37
Hyundai	Elantra	00-06	17.98	21.76	3.91	3.46	4.43	0.97
Hyundai	Elantra Lavita	01-03	12.05	8.70	1.05	0.46	2.38	1.92
Hyundai	Accent	06-10	16.65	14.19	2.36	1.42	3.94	2.53
Hyundai	i30	07-10	14.52	24.24	3.52	2.61	4.75	2.14
Hyundai	S Coupe	90-96	20.98	23.92	5.02	4.29	5.88	1.59
Hyundai	Lantra	91-95	19.85	22.75	4.51	3.96	5.15	1.19
Hyundai	Lantra	96-00	18.04	23.43	4.23	3.87	4.62	0.75
Hyundai	Coupe	96-00	18.34	23.03	4.22	3.46	5.16	1.70
Hyundai	Accent	00-06	18.54	22.00	4.08	3.74	4.45	0.71
Mitsubishi	Lancer / Mirage CA	89-90	18.13	21.92	3.97	3.67	4.30	0.62
Mitsubishi	Lancer / Mirage CB	91-92	20.49	24.25	4.97	4.25	5.81	1.56
Mitsubishi	Lancer / Mirage CC	93-95	18.25	21.80	3.98	3.71	4.27	0.56
Mitsubishi	Lancer / Mirage CE	96-03	18.74	21.56	4.04	3.85	4.24	0.38
Mitsubishi	Cordia	83-87	22.57	26.10	5.89	5.26	6.59	1.33
Mitsubishi	Lancer CE / CG / Cedia	02-03	25.61	22.41	5.74	3.42	9.63	6.21
Mitsubishi	Lancer CH	03-07	16.56	21.66	3.59	3.15	4.08	0.93
Mitsubishi	Lancer CJ	08-10	15.15	18.74	2.84	1.83	4.41	2.59
Kia	Rio	00-05	18.52	22.72	4.21	3.77	4.70	0.93
Kia	Spectra	01-04	18.29	20.23	3.70	2.68	5.12	2.44
Kia	Cerato LD	04-08	18.31	19.96	3.65	2.84	4.70	1.85
Kia	Rio JB	05-10	15.58	21.36	3.33	2.75	4.03	1.28
Ford / Mazda	Laser / 323 / Familia	82-88	21.84	22.99	5.02	4.87	5.17	0.30
Mazda	323 / Familia / Lantis	90-93	18.43	20.58	3.79	3.51	4.10	0.59
Mazda	323 / Familia / Lantis	95-98	18.00	20.61	3.71	3.41	4.04	0.63

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Ford / Mazda	Laser / 323	99-03	16.66	19.25	3.21	2.97	3.47	0.50
Mazda	MX5 / Eunos Roadster	89-97	20.44	20.61	4.21	3.15	5.63	2.48
Mazda	MX5 / Eunos Roadster	98-05	17.36	14.68	2.55	1.76	3.68	1.92
Mazda	Eunos 30X / Presso / MX-3 / Autozam AZ-3	90-97	17.17	21.48	3.69	2.79	4.87	2.08
Mazda	3 / Axela	03-09	14.91	17.95	2.68	2.44	2.94	0.50
Mazda	MX-5	05-10	15.76	24.70	3.89	2.16	7.01	4.85
Mazda	3 / Axela	09-10	14.13	17.78	2.51	1.58	3.98	2.40
Mercedes Benz	A-Class W168	98-04	16.89	23.68	4.00	2.89	5.53	2.64
Mercedes Benz	A-Class W169	05-10	20.00	22.26	4.45	2.25	8.79	6.54
Holden / Nissan	Astra / Pulsar / Langley	84-86	21.70	25.04	5.43	5.14	5.74	0.60
Holden / Nissan	Astra / Pulsar / Vector / Sentra	88-90	19.88	23.94	4.76	4.53	5.00	0.47
Nissan	Pulsar / Vector / Sentra	92-95	18.01	21.49	3.87	3.62	4.14	0.52
Nissan	Pulsar / Vector / Sentra	96-99	18.31	21.93	4.01	3.79	4.26	0.47
Nissan	Stanza	82-83	21.28	24.42	5.20	4.01	6.73	2.72
Nissan	Gazelle / Silvia	84-86	20.23	26.97	5.45	4.57	6.51	1.94
Nissan	Exa	83-86	27.32	27.38	7.48	6.03	9.28	3.25
Nissan	Exa	87-91	20.83	28.48	5.93	4.33	8.12	3.79
Nissan	NX/NX-R	91-96	22.38	27.83	6.23	5.29	7.33	2.03
Nissan	Pulsar	00-05	16.97	20.41	3.46	3.22	3.72	0.50
Nissan	Tiida	06-10	15.67	20.03	3.14	2.32	4.25	1.93
Honda	Civic	82-83	19.98	24.55	4.90	4.18	5.75	1.57
Honda	Civic / Ballade / Shuttle	84-87	21.79	25.50	5.56	5.09	6.06	0.97
Honda	Civic / Shuttle	88-91	19.54	21.98	4.30	3.98	4.64	0.66
Honda	Civic	92-95	18.69	21.28	3.98	3.67	4.31	0.63
Honda	Civic	96-00	18.35	19.23	3.53	3.23	3.85	0.62
Honda	CRX	87-91	22.28	26.19	5.84	4.81	7.08	2.27
Honda	CRX	92-98	19.60	25.14	4.93	3.59	6.77	3.18
Honda	S2000	99-09	11.99	13.57	1.63	0.81	3.27	2.46
Honda	Civic	01-05	15.56	20.90	3.25	2.80	3.78	0.97
Honda	Civic	06-10	13.92	17.53	2.44	1.99	2.99	1.01

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Honda	Integra	86-88	19.73	23.09	4.55	3.83	5.42	1.58
Honda	Integra	90-92	20.10	22.54	4.53	3.82	5.37	1.54
Honda	Integra	93-01	18.15	21.10	3.83	3.27	4.48	1.20
Honda	Integra	02-06	18.32	23.17	4.24	2.97	6.07	3.10
Honda	Concerto	89-93	17.55	25.50	4.48	3.71	5.41	1.70
Peugeot	306	94-01	16.58	17.62	2.92	2.43	3.51	1.07
Peugeot	307	01-09	13.23	14.37	1.90	1.42	2.54	1.11
Proton	Wira	95-96	18.26	24.96	4.56	3.93	5.29	1.36
Proton	Gen 2	04-10	15.32	22.17	3.40	2.08	5.54	3.46
Renault	Megane Cabriolet	01-03	10.47	6.32	0.66	0.13	3.48	3.35
Renault	Megane II	03-10	17.26	20.31	3.51	1.99	6.16	4.16
Renault	19	91-96	19.37	17.40	3.37	2.25	5.04	2.78
Renault	Scenic	01-04	17.10	17.68	3.02	1.92	4.77	2.85
Rover	Quintet	82-86	20.46	19.72	4.04	2.82	5.78	2.96
MG	MGF / MG TF	99-05	11.94	24.80	2.96	1.94	4.52	2.58
Subaru	Vortex	85-89	24.14	20.67	4.99	2.94	8.45	5.51
Subaru	Impreza	93-00	18.38	24.45	4.49	4.16	4.85	0.69
Subaru	Impreza	01-07	14.97	20.38	3.05	2.69	3.46	0.77
Subaru	Impreza	07-10	12.88	23.17	2.98	2.03	4.38	2.35
Suzuki	Baleno / Cultus Crescent	95-02	17.07	18.85	3.22	2.74	3.78	1.05
Suzuki	Liana	01-07	16.66	19.76	3.29	2.50	4.33	1.82
Toyota	Corolla	82-84	20.72	21.98	4.55	4.30	4.82	0.51
Toyota	Corolla	86-88	20.04	23.33	4.68	4.47	4.89	0.43
Toyota / Holden	Corolla / Nova	89-93	19.09	22.53	4.30	4.15	4.46	0.32
Toyota / Holden	Corolla / Nova	94-97	17.83	21.62	3.86	3.68	4.04	0.36
Toyota	Corolla / Allex	98-01	16.75	19.48	3.26	3.02	3.53	0.51
Toyota	Corolla	02-07	16.32	20.41	3.33	3.14	3.53	0.39
Toyota	Corolla	07-10	15.95	20.23	3.23	2.80	3.71	0.91
Toyota	Tercel	83-88	21.24	20.66	4.39	3.43	5.61	2.18
Toyota	MR2	87-90	21.36	24.73	5.28	4.08	6.84	2.76

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Toyota	MR2	91-00	20.45	25.30	5.17	3.84	6.97	3.14
Toyota	Paseo / Cynos	91-99	18.48	22.93	4.24	3.66	4.91	1.25
Toyota	MR2	00-05	16.09	13.36	2.15	0.91	5.07	4.16
Toyota	Corolla 4WD Wagon	92-96	18.93	25.97	4.92	3.77	6.41	2.64
Toyota	Prius II	03-09	12.21	18.38	2.24	1.54	3.26	1.72
Volvo	300 Series	84-88	15.22	29.34	4.46	2.99	6.66	3.66
Volvo	S40/V50	04-10	16.92	13.32	2.25	1.11	4.56	3.44
Volvo	S40/V40	97-04	15.93	16.91	2.69	2.06	3.52	1.46
Volkswagen	Golf	82-94	19.16	24.22	4.64	3.32	6.48	3.16
Volkswagen	Golf	95-98	15.97	22.45	3.59	2.93	4.39	1.46
Volkswagen	Golf / Bora	99-04	16.39	15.94	2.61	2.24	3.05	0.82
Volkswagen	New Beetle	00-10	16.00	21.34	3.41	2.53	4.61	2.09
Volkswagen	Golf / Jetta	04-10	14.08	16.10	2.27	1.86	2.77	0.91
Light Cars			**19.20**	**21.10**	**4.05**	**3.98**	**4.12**	**0.14**
Citroen	C3	02-10	17.50	12.47	2.18	1.01	4.73	3.72
Daihatsu	Charade	82-86	24.62	27.09	6.67	6.02	7.39	1.38
Daihatsu	Charade	88-92	21.32	23.40	4.99	4.64	5.36	0.72
Daihatsu	Charade	93-00	20.81	24.98	5.20	4.81	5.62	0.81
Daihatsu	Pyzar	97-01	17.93	26.66	4.78	3.57	6.39	2.82
Daihatsu	Move	97-99	20.79	14.64	3.04	1.58	5.85	4.27
Daihatsu	Sirion / Storia	98-04	19.36	20.37	3.94	3.38	4.60	1.22
Daihatsu	Charade	03-05	23.65	9.34	2.21	0.86	5.68	4.82
Daihatsu	Mira	90-96	28.01	25.63	7.18	6.17	8.35	2.18
Daewoo	Matiz	99-04	24.22	18.92	4.58	3.85	5.45	1.60
Daewoo	Kalos	03-04	18.16	24.35	4.42	3.41	5.75	2.34
Ford	Festiva WD/WH/WF	94-01	21.72	22.74	4.94	4.71	5.18	0.47
Ford	Ka	99-02	18.48	22.08	4.08	3.22	5.17	1.95
Ford	Fiesta WP/WQ	04-08	15.41	7.16	1.10	0.35	3.47	3.12

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Ford	Fiesta WS	09-10	21.07	16.89	3.56	1.87	6.75	4.88
Holden	Barina XC	01-06	17.97	18.63	3.35	2.98	3.75	0.77
Holden	Barina SB	95-00	20.12	20.41	4.11	3.81	4.42	0.61
Holden	Barina TK	05-10	17.12	20.26	3.47	2.98	4.03	1.05
Hyundai	Getz / TB	02-10	17.68	24.60	4.35	3.96	4.77	0.81
Mitsubishi	Mirage / Colt	82-88	22.22	23.27	5.17	4.91	5.44	0.53
Mitsubishi	Colt	04-10	15.08	21.48	3.24	2.42	4.34	1.92
Ford / Mazda	Festiva WA / 121	87-90	21.68	23.47	5.09	4.76	5.44	0.67
Mazda	121 / Autozam Review	94-96	20.20	21.17	4.28	3.87	4.72	0.85
Mazda	121 Metro / Demio	97-02	17.93	21.04	3.77	3.38	4.22	0.84
Mazda	2	02-07	15.32	24.75	3.79	3.19	4.51	1.32
Mazda	2	07-10	14.78	18.04	2.67	2.05	3.47	1.42
Nissan	Micra	95-97	20.47	24.27	4.97	4.16	5.93	1.77
Honda	Jazz / Fit	02-08	15.39	20.69	3.18	2.75	3.69	0.95
Honda	Jazz GE	08-10	15.51	16.32	2.53	1.44	4.46	3.02
Honda	City	83-86	26.41	23.18	6.12	5.21	7.19	1.97
Peugeot	205	87-94	17.61	20.08	3.53	2.45	5.11	2.66
Peugeot	207	07-10	9.96	6.62	0.66	0.20	2.22	2.02
Peugeot	206	99-07	16.05	21.19	3.40	2.68	4.31	1.63
Proton	Satria	97-05	20.39	25.26	5.15	3.16	8.40	5.24
Renault	Clio	01-08	18.19	24.27	4.41	3.01	6.47	3.46
Lada	Samara	88-90	18.75	41.84	7.84	4.50	13.66	9.16
Subaru	Sherpa / Fiori / 700 / Rex	89-92	30.19	24.42	7.37	6.29	8.64	2.35
Suzuki	Swift	82-85	25.03	26.92	6.74	4.88	9.30	4.41
Holden / Suzuki	Barina / Swift / Cultus	86-88	24.62	24.27	5.98	5.52	6.47	0.96
Holden / Suzuki	Barina / Swift / Cultus	89-99	20.91	22.67	4.74	4.52	4.97	0.45
Suzuki	Hatch / Alto	82-84	30.60	26.68	8.16	7.03	9.47	2.44
Suzuki	Alto	85-00	28.06	27.20	7.63	6.17	9.44	3.27
Suzuki	Ignis	00-02	21.07	20.17	4.25	3.40	5.31	1.91
Suzuki	Swift	05-10	17.36	20.58	3.57	3.13	4.08	0.94

Make	Model of Car	Years of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 road users involved %	Lower 90% Confidence Limit	Lower 90% Confidence Limit	Width of Confidence Interval
Toyota	Starlet	96-99	19.22	23.31	4.48	4.12	4.87	0.76
Toyota	Echo	99-05	17.35	22.55	3.91	3.64	4.21	0.57
Toyota	Yaris	05-10	15.95	18.94	3.02	2.68	3.41	0.73
Volkswagen	Polo	96-00	17.60	17.03	3.00	2.30	3.90	1.59
Volkswagen	Polo	01-02	17.76	30.03	5.33	3.20	8.88	5.67
Volkswagen	Polo	02-10	17.27	20.74	3.58	2.65	4.85	2.20

APPENDIX 7

PRESENTATION OF CRASHWORTHINESS, AGGRESSIVITY AND TOTAL SECONDARY SAFETY RATINGS FOR CONSUMER INFORMATION

CRASHWORTHINESS, AGGRESSIVITY AND TOTAL SECONDARY SAFETY

Victoria and New South Wales Data (1987-2010), South Australia Data (1995-2010), Queensland Data (1991-2009), Western Australia and New Zealand Data (1991-2010)

Criteria

Latest Year of Manufacture	1996	**Benchmark**	CWR 1.92%	AGG 2.28%	TSS 2.23%
Confidence Limit Width	0.02	**Percentile**	10.00%	10.00%	10.00%
Coefficient of Variation	1.6	**Increment**	30.00%	20.00%	20.00%

Make	Model	Years of Manufacture	CRASHWORTHINESS RATING										Best pick	Aggressivity Rating	Total Secondary Safety Rating
			CWR	Lower 90% CL	Upper 90% CL	90% CL Width	CoV	Equivalent to benchmark	Worse than benchmark	At least 30% worse than benchmark	At least 60% worse than benchmark	At least 90% worse than benchmark		++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark	++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark
Compact Sports Utility Vehicles															
Daihatsu	Feroza / Rocky	89-97	5.29	4.26	6.58	2.32	0.44								xx
Daihatsu	Rocky / Rugger	85-98	6.91	5.43	8.79	3.36	0.49								xx
Kia	Sportage	98-03	3.23	2.45	4.26	1.81	0.56								+
Ford / Mazda	Escape / Tribute	01-06	2.96	2.42	3.62	1.20	0.41							o	+

Make	Model	Years of Manufacture	CRASHWORTHINESS RATING											Best pick	Aggressivity Rating	Total Secondary Safety Rating
			CWR	Lower 90% CL	Upper 90% CL	90% CL Width	CoV	Equivalent to benchmark	Worse than benchmark	At least 30% worse than benchmark	At least 60% worse than benchmark	At least 90% worse than benchmark			++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark	++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark
Nissan	X-Trail	01-07	2.89	2.46	3.39	0.93	0.32								o	+
Honda	CR-V	97-01	2.78	2.34	3.31	0.97	0.35								+	+
Honda	CR-V	02-06	2.34	1.89	2.90	1.00	0.43								+	++
Subaru	Forester	97-02	2.84	2.38	3.39	1.01	0.36								++	+
Subaru	Forester	02-08	2.32	1.89	2.84	0.94	0.41								++	++
Suzuki	Vitara / Escudo	88-98	5.38	4.82	6.00	1.19	0.22								o	xx
Suzuki	Grand Vitara	99-05	3.12	2.43	4.02	1.60	0.51									+
Holden / Suzuki	Drover / Sierra / Samurai / SJ410 / SJ413	82-99	6.32	5.71	6.99	1.29	0.20								o	xx
Toyota	RAV4	94-00	3.78	3.32	4.32	1.00	0.26								x	x
Toyota	RAV4	01-06	2.95	2.53	3.44	0.91	0.31								x	o
Toyota	RAV4	06-10	2.67	2.08	3.44	1.36	0.51								+	++
Medium Sports Utility Vehicles																
Ford	Territory SX/SY	04-10	1.88	1.45	2.44	0.99	0.52								o	++
Holden / Isuzu	Jackaroo / Bighorn	92-97	2.92	2.24	3.81	1.57	0.54									o
Holden / Isuzu	Jackaroo / Bighorn	98-02	3.51	2.73	4.51	1.78	0.51								xx	x
Holden	Captiva CG	06-10	1.70	1.03	2.79	1.76	1.04									++
Mitsubishi	Pajero	92-99	3.23	2.81	3.72	0.92	0.28								xx	x
Mitsubishi	Pajero NM / NP / NS	00-06	2.19	1.66	2.89	1.23	0.56									++
Jeep	Cherokee XJ	96-00	3.42	2.79	4.19	1.40	0.41								xx	x
Nissan	Pathfinder / Terrano / Regulus	95-05	2.12	1.63	2.76	1.13	0.53								xx	+

Make	Model	Years of Manufacture	CRASHWORTHINESS RATING											Best pick	Aggressivity Rating	Total Secondary Safety Rating
			CWR	Lower 90% CL	Upper 90% CL	90% CL Width	CoV	Equivalent to benchmark	Worse than benchmark	At least 30% worse than benchmark	At least 60% worse than benchmark	At least 90% worse than benchmark			++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark	++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark
Toyota	Kluger / Highlander	03-07	2.94	2.17	3.97	1.79	0.61									+
Toyota	Landcruiser Prado	96-03	2.63	2.13	3.25	1.12	0.42								xx	o
Toyota	Landcruiser Prado	03-09	1.74	1.42	2.13	0.71	0.41								xx	+
Large Sports Utility Vehicles																
BMW	X5	01-08	1.14	0.61	2.13	1.52	1.33									++
Ford	Explorer	01-05	2.05	1.29	3.26	1.97	0.96									++
Jeep	Grand Cherokee WG	99-05	1.91	1.17	3.13	1.96	1.02									+
Land Rover	Discovery	91-02	2.51	1.96	3.21	1.25	0.50								o	+
Nissan / Ford	Patrol / Maverick / Safari	88-97	2.81	2.55	3.11	0.56	0.20								xx	x
Nissan	Patrol / Safari	98-10	2.23	1.96	2.54	0.58	0.26								xx	o
Toyota	Landcruiser	90-97	3.16	2.94	3.41	0.47	0.15								xx	xx
Toyota	Landcruiser	98-07	2.63	2.39	2.90	0.51	0.19								xx	x
Commercial - Vans																
Daihatsu	Handivan / Cuore	99-03	6.91	4.57	10.46	5.88	0.85									
Ford	Transit	95-00	3.19	2.40	4.25	1.85	0.58									o
Ford	Transit	01-07	1.38	0.93	2.03	1.09	0.79									++
Holden / Suzuki	Scurry / Carry	82-00	10.56	8.45	13.20	4.75	0.45									xx
Toyota	Hiace/Liteace	96-04	3.32	2.95	3.73	0.78	0.23								xx	x
Volkswagen	Caravelle / Transporter	95-04	1.98	1.29	3.03	1.74	0.88								xx	o

Make	Model	Years of Manufacture	CRASHWORTHINESS RATING										Best pick	Aggressivity Rating	Total Secondary Safety Rating
			CWR	Lower 90% CL	Upper 90% CL	90% CL Width	CoV	Equivalent to benchmark	Worse than benchmark	At least 30% worse than benchmark	At least 60% worse than benchmark	At least 90% worse than benchmark		++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark	++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark
Commercial - Utes															
Ford	Falcon Ute	96-99	3.46	2.94	4.07	1.13	0.33							xx	x
Ford	Falcon Ute AU	00-02	2.57	2.19	3.02	0.84	0.33							xx	o
Ford	Falcon Ute BA/BF	03-08	2.36	2.00	2.79	0.79	0.33							o	+
Holden	Rodeo	96-98	3.46	3.00	4.00	1.00	0.29							xx	x
Holden	Rodeo	99-02	3.69	3.25	4.20	0.96	0.26							xx	x
Holden	Commodore Ute VR/VS	94-00	4.13	3.80	4.49	0.69	0.17							xx	xx
Holden	Commodore VU Ute	00-02	3.13	2.66	3.69	1.02	0.33							x	o
Holden	Commodore VY/VZ Ute	02-07	2.71	2.41	3.04	0.63	0.23							xx	o
Holden	Rodeo	03-08	2.68	2.34	3.06	0.72	0.27							xx	o
Mitsubishi	Triton MK	96-06	2.56	1.96	3.34	1.37	0.54								+
Mitsubishi	Triton ML / MN	06-10	2.09	1.44	3.03	1.58	0.76								++
Kia	Ceres	92-00	6.06	5.04	7.28	2.24	0.37							+	xx
Ford / Mazda	Courier / B-Series / Bounty	98-02	3.10	2.62	3.66	1.05	0.34							x	o
Ford / Mazda	Courier / Bravo / Bounty	03-06	3.06	2.52	3.71	1.18	0.39							o	+
Ford / Mazda	Ranger / BT-50	06-10	2.19	1.72	2.79	1.08	0.49								+
Nissan	Navara	92-96	3.94	3.33	4.66	1.33	0.34							xx	x
Nissan	Navara	97-05	2.53	2.17	2.95	0.78	0.31							xx	o
Nissan	Navara	05-10	2.27	1.69	3.05	1.36	0.60								+
Toyota	4Runner/Hilux	89-97	4.24	4.02	4.47	0.45	0.11							xx	xx

Make	Model	Years of Manufacture	CRASHWORTHINESS RATING										Best pick	Aggressivity Rating	Total Secondary Safety Rating
			CWR	Lower 90% CL	Upper 90% CL	90% CL Width	CoV	Equivalent to benchmark	Worse than benchmark	At least 30% worse than benchmark	At least 60% worse than benchmark	At least 90% worse than benchmark		++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark	++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark
Toyota	Hilux	98-02	2.95	2.67	3.26	0.59	0.20							xx	x
Toyota	Hilux	03-04	2.72	2.28	3.24	0.96	0.35							xx	o
Toyota	Hilux	05-10	2.14	1.86	2.47	0.61	0.28							xx	+
Large Cars															
Ford	Fairlane N & LTD D	95-98	3.56	2.98	4.25	1.27	0.36							x	x
Ford	Fairlane & LTD AU	99-02	3.00	2.26	3.97	1.71	0.57							+	+
Ford	Falcon FG	08-10	1.38	0.91	2.09	1.18	0.85							++	++
Ford	Falcon EF/EL	94-98	3.59	3.44	3.74	0.30	0.08							xx	x
Ford	Falcon AU	98-02	3.27	3.09	3.46	0.36	0.11							x	x
Ford	Falcon BA/BF	02-08	2.62	2.45	2.81	0.36	0.14							x	o
Holden	Stateman/Caprice VR/VS	94-98	3.60	3.19	4.07	0.89	0.25							o	x
Holden / Toyota	Commodore VR/VS / Lexcen	93-97	4.00	3.85	4.15	0.30	0.07							x	x
Holden	Commodore VT/VX	97-02	3.38	3.24	3.53	0.29	0.08							xx	x
Holden	Statesman/Caprice WH	99-03	2.78	2.18	3.55	1.38	0.49								o
Holden	Commodore VY/VZ	02-07	2.73	2.54	2.93	0.40	0.15							o	o
Holden	Monaro	01-05	3.21	2.44	4.22	1.78	0.56								o
Holden	Commodore VE	06-10	2.57	2.26	2.92	0.66	0.26							o	+
Hyundai	Sonata	89-97	3.98	3.48	4.56	1.08	0.27							o	x
Mitsubishi	Magna TE/TF/TH/TJ / Verada KE/KF/KH/KJ / Diamante	96-03	3.72	3.49	3.97	0.48	0.13							x	x
Mitsubishi	Magna TR/TS / Verada KR/KS /	91-96	3.94	3.74	4.16	0.43	0.11							x	x

Make	Model	Years of Manufacture	CRASHWORTHINESS RATING										Best pick	Aggressivity Rating	Total Secondary Safety Rating
			CWR	Lower 90% CL	Upper 90% CL	90% CL Width	CoV	Equivalent to benchmark	Worse than benchmark	At least 30% worse than benchmark	At least 60% worse than benchmark	At least 90% worse than benchmark		++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark	++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark
	V3000 / Diamante														
Mitsubishi	Magna TL/TW / Verada KL/KW	03-05	2.79	2.21	3.53	1.31	0.47							+	+
Mitsubishi	380	05-08	2.02	1.33	3.08	1.75	0.86								++
Mercedes Benz	E-Class W210	96-02	2.37	1.62	3.48	1.86	0.78								++
Nissan	Maxima / Cefiro	95-99	3.84	3.19	4.62	1.43	0.37							+	o
Toyota	Camry	98-02	3.35	3.13	3.60	0.47	0.14							x	x
Toyota	Avalon	00-05	2.99	2.57	3.49	0.93	0.31							xx	o
Toyota	Camry	02-06	2.74	2.46	3.04	0.58	0.21							o	o
Toyota	Aurion	06-10	2.27	1.66	3.10	1.44	0.63								++
Toyota	Camry	06-10	2.66	2.16	3.28	1.12	0.42							+	+
Volvo	850/S70/V70/C70	92-99	3.28	2.66	4.06	1.40	0.43							x	o
Medium Cars															
Audi	A4	01-08	1.62	0.97	2.70	1.73	1.07								++
BMW	3 Series E90 /E91 /E92 /E93	05-10	1.51	0.85	2.70	1.85	1.22								++
BMW	3 Series E36	92-98	3.41	3.03	3.84	0.80	0.24							+	o
BMW	3 Series E46	99-06	3.18	2.70	3.75	1.06	0.33							+	+
BMW	5 Series E39	96-03	2.25	1.62	3.11	1.49	0.66							++	++
Daewoo	Espero	95-97	6.19	4.98	7.70	2.72	0.44								xx
Daewoo	Tacuma	00-04	7.42	4.36	12.62	8.26	1.11								
Ford	Mondeo	95-01	3.02	2.58	3.54	0.96	0.32							o	+

Make	Model	Years of Manufacture	CRASHWORTHINESS RATING											Best pick	Aggressivity Rating	Total Secondary Safety Rating
			CWR	Lower 90% CL	Upper 90% CL	90% CL Width	CoV	Equivalent to benchmark	Worse than benchmark	At least 30% worse than benchmark	At least 60% worse than benchmark	At least 90% worse than benchmark			++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark	++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark
Ford	Cougar	99-03	2.83	2.08	3.84	1.77	0.63								++	++
Holden	Vectra	97-03	3.18	2.77	3.64	0.87	0.27								o	o
Mitsubishi	Galant	95-96	4.56	3.89	5.35	1.47	0.32								+	x
Ford / Mazda	Telstar / 626 / MX6 / Capella / Cronos	92-97	3.94	3.60	4.31	0.70	0.18								+	o
Mazda	626	98-02	3.23	2.73	3.83	1.10	0.34								+	o
Mazda	6	02-07	2.34	1.93	2.83	0.90	0.38								++	++
Mercedes Benz	C-Class W202	95-00	2.96	2.30	3.81	1.52	0.51								++	++
Mercedes Benz	C-Class W203	00-07	2.64	1.86	3.74	1.88	0.71								++	++
Nissan	Bluebird	93-97	3.66	3.17	4.22	1.04	0.28								+	o
Nissan	200SX / Silvia	94-02	3.58	2.88	4.46	1.58	0.44									o
Honda	Accord Euro	03-08	2.66	2.09	3.38	1.29	0.49								++	+
Honda	Accord	03-07	2.24	1.63	3.07	1.44	0.64									++
Honda	Accord	94-98	3.57	3.13	4.06	0.92	0.26								+	o
Honda	Accord	99-02	2.41	1.76	3.31	1.56	0.65									+
Honda	Prelude	92-96	4.39	3.69	5.21	1.52	0.35								++	o
Honda	Prelude	97-02	2.65	1.89	3.71	1.82	0.69									+
Saab	900/9-3	94-02	2.37	1.77	3.17	1.40	0.59								++	++
Saab	9000	86-97	2.33	1.66	3.26	1.60	0.69								++	++
Subaru	Liberty / Legacy / Outback	94-98	3.44	3.04	3.90	0.86	0.25								x	x
Subaru	Liberty / Legacy / Outback	99-03	2.53	2.16	2.97	0.81	0.32								+	+

Make	Model	Years of Manufacture	CRASHWORTHINESS RATING											Best pick	Aggressivity Rating	Total Secondary Safety Rating
			CWR	Lower 90% CL	Upper 90% CL	90% CL Width	CoV	Equivalent to benchmark	Worse than benchmark	At least 30% worse than benchmark	At least 60% worse than benchmark	At least 90% worse than benchmark			++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark	++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark
Subaru	Liberty / Legacy / Outback	03-09	2.36	1.89	2.96	1.07	0.45								++	++
Holden / Toyota	Apollo JM/JP / Camry / Sceptor	93-97	4.54	4.32	4.78	0.47	0.10								x	xx
Toyota	Celica	94-99	3.96	3.23	4.85	1.62	0.41								+	o
Volkswagen	Passat	98-06	2.20	1.42	3.39	1.96	0.89									++
People Movers																
Mitsubishi	Starwagon / Delica Spacegear	95-98	4.22	3.43	5.21	1.78	0.42								xx	x
Mitsubishi	Starwagon / Delica Spacegear	98-03	4.68	3.83	5.72	1.89	0.40								o	x
Kia	Carnival	99-06	2.63	2.01	3.45	1.45	0.55									+
Honda	Odyssey	95-00	2.54	1.90	3.41	1.51	0.59									+
Toyota	Tarago / Previa / Estima	91-99	3.35	2.86	3.93	1.07	0.32								x	o
Toyota	Tarago / Previa / Estima	00-06	2.37	1.75	3.21	1.46	0.61									+
Small Cars																
Daihatsu	Applause	89-99	5.12	4.46	5.86	1.40	0.27								++	x
Daewoo	Cielo	95-97	5.02	4.48	5.61	1.13	0.23								++	x
Daewoo	Nubira	97-03	4.03	3.52	4.62	1.10	0.27								+	o
Daewoo	Lanos	97-03	5.29	4.81	5.82	1.01	0.19								+	xx
Ford	Laser	95-97	4.90	4.43	5.42	0.99	0.20								+	x
Ford	Focus LR	02-05	2.92	2.39	3.57	1.17	0.40								+	+
Ford	Focus LS / LT	05-09	2.84	2.32	3.48	1.17	0.41								+	+
Holden	Astra TR	96-98	3.83	3.10	4.73	1.63	0.42								++	o
Holden	Astra TS	98-06	3.13	2.87	3.40	0.53	0.17								+	+

Make	Model	Years of Manufacture	CRASHWORTHINESS RATING										Best pick	Aggressivity Rating	Total Secondary Safety Rating
			CWR	Lower 90% CL	Upper 90% CL	90% CL Width	CoV	Equivalent to benchmark	Worse than benchmark	At least 30% worse than benchmark	At least 60% worse than benchmark	At least 90% worse than benchmark		++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark	++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark
Holden	Astra AH	04-09	2.79	2.30	3.38	1.09	0.39							++	+
Holden	Viva JF	05-09	3.14	2.42	4.09	1.67	0.53							++	+
Hyundai	Excel / Accent	95-00	5.57	5.31	5.84	0.53	0.10							+	xx
Hyundai	Elantra	00-06	4.15	3.54	4.86	1.32	0.32							+	x
Hyundai	S Coupe	90-96	6.36	5.28	7.66	2.38	0.37							++	xx
Hyundai	Lantra	96-00	4.76	4.26	5.31	1.05	0.22							o	x
Hyundai	Coupe	96-00	5.13	4.05	6.49	2.44	0.48								x
Hyundai	Accent	00-06	4.65	4.18	5.18	1.00	0.21							+	x
Mitsubishi	Lancer / Mirage CE	96-03	4.72	4.45	5.01	0.56	0.12							+	x
Mitsubishi	Lancer CE / CG / Cedia	02-03	7.92	4.49	13.97	9.48	1.20								
Mitsubishi	Lancer CH	03-07	3.72	3.15	4.39	1.24	0.33							+	o
Kia	Rio	00-05	4.53	3.95	5.18	1.23	0.27							+	x
Kia	Rio JB	05-10	4.08	3.28	5.09	1.81	0.44							++	+
Mazda	323 / Familia / Lantis	95-98	4.60	4.16	5.09	0.93	0.20							++	o
Ford / Mazda	Laser / 323	99-03	3.49	3.16	3.85	0.69	0.20							++	o
Mazda	3 / Axela	03-09	2.63	2.33	2.97	0.64	0.24							++	++
Nissan	Pulsar / Vector / Sentra	96-99	4.54	4.23	4.88	0.65	0.14							+	x
Nissan	NX/NX-R	91-96	6.98	5.70	8.54	2.84	0.41							xx	xx
Nissan	Pulsar	00-05	4.01	3.67	4.38	0.70	0.18							++	o
Honda	Civic	96-00	4.09	3.67	4.57	0.90	0.22							++	o
Honda	Civic	01-05	3.37	2.77	4.09	1.31	0.39							++	+

Make	Model	Years of Manufacture	CRASHWORTHINESS RATING											Best pick	Aggressivity Rating	Total Secondary Safety Rating
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Honda	Civic	06-10	2.18	1.63	2.91	1.28	0.59								++	++
Honda	Integra	93-01	4.19	3.45	5.09	1.64	0.39								++	o
Peugeot	306	94-01	2.89	2.27	3.68	1.42	0.49								++	++
Peugeot	307	01-09	1.63	1.05	2.53	1.48	0.91								++	++
Proton	Wira	95-96	5.06	4.21	6.08	1.88	0.37								+	xx
Subaru	Impreza	93-00	4.90	4.46	5.38	0.92	0.19								o	xx
Subaru	Impreza	01-07	3.03	2.58	3.55	0.98	0.32								++	+
Suzuki	Baleno / Cultus Crescent	95-02	4.36	3.62	5.24	1.62	0.37								++	+
Toyota / Holden	Corolla / Nova	94-97	4.56	4.31	4.82	0.51	0.11								+	x
Toyota	Corolla / Allex	98-01	3.21	2.91	3.55	0.65	0.20								+	o
Toyota	Corolla	02-07	3.46	3.21	3.73	0.52	0.15								+	o
Toyota	Corolla	07-10	3.10	2.58	3.73	1.15	0.37								+	+
Toyota	Paseo / Cynos	91-99	4.69	3.90	5.63	1.73	0.37								+	x
Volvo	S40/V40	97-04	2.27	1.56	3.30	1.74	0.77									++
Volkswagen	Golf	95-98	3.18	2.36	4.27	1.91	0.60									+
Volkswagen	Golf / Bora	99-04	2.13	1.68	2.69	1.01	0.47								++	++
Volkswagen	Golf / Jetta	04-10	1.54	1.12	2.12	1.01	0.65								++	++
Light Cars																
Daihatsu	Charade	93-00	6.76	6.18	7.40	1.22	0.18								+	xx
Daihatsu	Sirion / Storia	98-04	5.07	4.25	6.05	1.80	0.35									o
Daihatsu	Mira	90-96	10.31	8.74	12.17	3.43	0.33								++	xx

Make	Model	Years of Manufacture	CRASHWORTHINESS RATING										Best pick	Aggressivity Rating	Total Secondary Safety Rating
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Daewoo	Matiz	99-04	5.61	4.59	6.86	2.27	0.40							++	x
Daewoo	Kalos	03-04	5.57	4.14	7.48	3.34	0.60								
Ford	Festiva WD/WH/WF	94-01	6.41	6.07	6.78	0.70	0.11							+	xx
Ford	Ka	99-02	5.41	4.13	7.09	2.96	0.55							++	o
Holden	Barina XC	01-06	3.51	3.03	4.06	1.03	0.29							+	o
Holden	Barina SB	95-00	4.75	4.34	5.21	0.87	0.18							+	x
Holden	Barina TK	05-10	4.13	3.47	4.90	1.43	0.35							++	o
Hyundai	Getz / TB	02-10	4.65	4.14	5.23	1.09	0.24							o	xx
Mazda	121 / Autozam Review	94-96	5.69	5.09	6.36	1.28	0.22							++	x
Mazda	121 Metro / Demio	97-02	4.73	4.14	5.39	1.25	0.26								o
Mazda	2	02-07	4.25	3.46	5.22	1.77	0.42							++	o
Mazda	2	07-10	2.36	1.66	3.35	1.69	0.71								++
Nissan	Micra	95-97	6.72	5.50	8.21	2.71	0.40							++	xx
Honda	Jazz / Fit	02-08	3.44	2.87	4.13	1.27	0.37							++	+
Holden / Suzuki	Barina / Swift / Cultus	89-99	6.27	5.95	6.62	0.67	0.11							++	xx
Suzuki	Alto	85-00	10.19	8.12	12.80	4.68	0.46								xx
Suzuki	Ignis	00-02	5.75	4.46	7.41	2.96	0.51							++	o
Suzuki	Swift	05-10	3.94	3.37	4.60	1.23	0.31							++	o
Toyota	Starlet	96-99	5.69	5.16	6.27	1.11	0.19							++	xx
Toyota	Echo	99-05	4.60	4.22	5.01	0.79	0.17							++	x
Toyota	Yaris	05-10	3.29	2.83	3.81	0.97	0.30							++	+

Make	Model	Years of Manufacture	CRASHWORTHINESS RATING										Best pick	Aggressivity Rating	Total Secondary Safety Rating
			CWR	Lower 90% CL	Upper 90% CL	90% CL Width	CoV	Equivalent to benchmark	Worse than benchmark	At least 30% worse than benchmark	At least 60% worse than benchmark	At least 90% worse than benchmark		++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark	++ =Equivalent to benchmark + =Worse than benchmark o =At least 20% worse than benchmark x =At least 40% worse than benchmark xx =At least 60% worse than benchmark
Number of vehicles rated								45	45	37	22	48	29		

APPENDIX 8

CRASHWORTHINESS, INJURY RISK AND INJURY SEVERITY ESTIMATES BY YEAR OF VEHICLE MANUFACTURE FOR THE AUSTRALIAN VEHICLE FLEET

INJURY RISK BY YEAR OF VEHICLE MANUFACTURE

Year of Manufacture	Coefficient of Car Year	Standard Error of Coefficient	Pr(Risk) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
AVERAGE	**-1.5432**		**17.61**			
1964	0.4151	0.0509	24.45	22.66	26.34	3.69
1965	0.4831	0.0540	25.73	23.76	27.80	4.04
1966	0.3361	0.0482	23.02	21.39	24.74	3.35
1967	0.4163	0.0383	24.47	23.11	25.89	2.77
1968	0.3706	0.0343	23.64	22.45	24.87	2.43
1969	0.3695	0.0307	23.62	22.55	24.72	2.17
1970	0.3634	0.0232	23.51	22.70	24.34	1.64
1971	0.3135	0.0210	22.62	21.91	23.35	1.44
1972	0.3357	0.0200	23.01	22.33	23.72	1.39
1973	0.3609	0.0183	23.46	22.83	24.11	1.29
1974	0.3146	0.0147	22.64	22.14	23.15	1.01
1975	0.2229	0.0146	21.08	20.61	21.56	0.95
1976	0.2141	0.0131	20.93	20.51	21.36	0.85
1977	0.1705	0.0134	20.22	19.80	20.65	0.85
1978	0.1495	0.0118	19.88	19.52	20.25	0.74
1979	0.0822	0.0109	18.83	18.51	19.16	0.65
1980	0.1251	0.0105	19.50	19.18	19.82	0.65
1981	0.1089	0.00987	19.24	18.94	19.55	0.60
1982	0.1023	0.00925	19.14	18.86	19.42	0.56
1983	0.1091	0.00944	19.25	18.96	19.54	0.58
1984	0.0520	0.00849	18.37	18.13	18.63	0.50
1985	0.0628	0.00793	18.54	18.30	18.77	0.47
1986	0.0017	0.00879	17.63	17.38	17.88	0.50
1987	-0.0203	0.00916	17.31	17.06	17.57	0.51
1988	-0.0405	0.00833	17.03	16.80	17.26	0.46
1989	-0.0768	0.00784	16.52	16.31	16.73	0.42
1990	-0.0616	0.00776	16.73	16.52	16.94	0.42
1991	-0.0785	0.00832	16.50	16.27	16.72	0.45
1992	-0.1025	0.00821	16.17	15.95	16.39	0.44
1993	-0.1519	0.00821	15.51	15.30	15.72	0.42
1994	-0.1411	0.00790	15.65	15.45	15.86	0.41
1995	-0.1642	0.00794	15.35	15.15	15.55	0.40
1996	-0.1423	0.00824	15.64	15.43	15.85	0.43
1997	-0.1592	0.00808	15.42	15.21	15.62	0.41
1998	-0.1738	0.00794	15.23	15.03	15.43	0.40
1999	-0.1984	0.00855	14.91	14.70	15.13	0.43
2000	-0.2496	0.00899	14.27	14.06	14.49	0.43
2001	-0.3083	0.0098	13.57	13.35	13.80	0.45
2002	-0.3001	0.0101	13.67	13.43	13.90	0.47
2003	-0.3241	0.0104	13.39	13.15	13.62	0.47
2004	-0.3666	0.0112	12.90	12.66	13.15	0.49
2005	-0.3529	0.0118	13.06	12.79	13.32	0.53
2006	-0.4148	0.0134	12.37	12.09	12.66	0.57
2007	-0.4195	0.0150	12.32	12.00	12.64	0.64
2008	-0.4585	0.0188	11.90	11.52	12.29	0.77
2009	-0.4271	0.0269	12.24	11.68	12.81	1.13
2010	-0.3477	0.0465	13.11	12.11	14.19	2.08

INJURY SEVERITY BY YEAR OF VEHICLE MANUFACTURE

Year of Manufacture	Coefficient of Car Year	Standard Error of Coefficient	Pr(Severity) %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
AVERAGE	**-1.1868**		**23.38**			
1964	0.3043	0.0857	29.27	25.91	32.86	6.95
1965	0.0651	0.0979	24.57	21.19	28.30	7.11
1966	0.1739	0.0814	26.64	23.64	29.87	6.23
1967	0.1924	0.0655	27.00	24.55	29.61	5.06
1968	0.1589	0.0594	26.35	24.15	28.67	4.52
1969	0.3811	0.0505	30.88	28.81	33.03	4.22
1970	0.2684	0.0393	28.53	26.98	30.12	3.14
1971	0.2379	0.0363	27.91	26.50	29.36	2.86
1972	0.2518	0.0343	28.19	26.85	29.57	2.72
1973	0.2674	0.0311	28.51	27.28	29.77	2.48
1974	0.1583	0.0265	26.34	25.34	27.36	2.02
1975	0.2147	0.0258	27.45	26.45	28.46	2.01
1976	0.1252	0.0240	25.70	24.81	26.61	1.80
1977	0.1455	0.0247	26.09	25.17	27.03	1.87
1978	0.1028	0.0220	25.27	24.47	26.10	1.63
1979	0.1235	0.0204	25.67	24.91	26.44	1.53
1980	0.0829	0.0201	24.90	24.17	25.64	1.47
1981	0.0941	0.0191	25.11	24.41	25.82	1.41
1982	0.1137	0.0179	25.48	24.82	26.15	1.33
1983	0.061	0.0185	24.49	23.83	25.17	1.34
1984	0.0657	0.0168	24.58	23.98	25.20	1.22
1985	0.0651	0.0159	24.57	24.00	25.15	1.16
1986	0.059	0.0175	24.46	23.83	25.10	1.27
1987	0.0695	0.0183	24.65	23.99	25.32	1.33
1988	0.0598	0.0169	24.47	23.86	25.09	1.22
1989	0.0354	0.0163	24.02	23.45	24.61	1.17
1990	0.013	0.0163	23.62	23.05	24.20	1.15
1991	0.0194	0.0178	23.73	23.11	24.37	1.26
1992	-0.0231	0.0179	22.97	22.36	23.60	1.24
1993	-0.00492	0.0180	23.30	22.67	23.93	1.26
1994	-0.0359	0.0175	22.75	22.15	23.35	1.21
1995	-0.0785	0.0177	22.01	21.42	22.61	1.19
1996	-0.0976	0.0185	21.68	21.07	22.30	1.23
1997	-0.0876	0.0183	21.85	21.24	22.47	1.22
1998	-0.1633	0.0187	20.59	19.99	21.19	1.20
1999	-0.1544	0.0199	20.73	20.10	21.38	1.28
2000	-0.1551	0.0210	20.72	20.05	21.40	1.35
2001	-0.1716	0.0221	20.45	19.75	21.16	1.41
2002	-0.2138	0.0234	19.77	19.05	20.51	1.46
2003	-0.2806	0.0244	18.73	18.02	19.47	1.46
2004	-0.2894	0.0264	18.60	17.83	19.40	1.57
2005	-0.2613	0.0275	19.03	18.21	19.87	1.66
2006	-0.3585	0.0326	17.58	16.67	18.52	1.85
2007	-0.2972	0.0363	18.48	17.43	19.58	2.14
2008	-0.3805	0.0473	17.26	15.98	18.62	2.65
2009	-0.4402	0.0776	16.42	14.44	18.62	4.18
2010	-0.4164	0.1378	16.75	13.32	20.86	7.55

CRASHWORTHINESS BY YEAR OF VEHICLE MANUFACTURE

Year of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 drivers involved	Overall rank order	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
AVERAGE	**17.61**	**23.38**	**4.12**				
1964	24.45	29.27	7.16	46	6.22	8.24	2.02
1965	25.73	24.57	6.32	41	5.36	7.45	2.09
1966	23.02	26.64	6.13	38	5.34	7.04	1.70
1967	24.47	27.00	6.61	43	5.92	7.37	1.45
1968	23.64	26.35	6.23	39	5.64	6.88	1.25
1969	23.62	30.88	7.29	47	6.72	7.92	1.20
1970	23.51	28.53	6.71	45	6.28	7.16	0.87
1971	22.62	27.91	6.31	40	5.94	6.71	0.76
1972	23.01	28.19	6.49	42	6.13	6.87	0.74
1973	23.46	28.51	6.69	44	6.35	7.04	0.69
1974	22.64	26.34	5.96	37	5.71	6.23	0.53
1975	21.08	27.45	5.78	36	5.54	6.04	0.50
1976	20.93	25.70	5.38	35	5.17	5.60	0.43
1977	20.22	26.09	5.28	34	5.06	5.50	0.44
1978	19.88	25.27	5.03	33	4.84	5.22	0.37
1979	18.83	25.67	4.83	30	4.67	5.00	0.33
1980	19.50	24.90	4.85	31	4.69	5.02	0.33
1981	19.24	25.11	4.83	29	4.68	4.99	0.31
1982	19.14	25.48	4.88	32	4.73	5.03	0.29
1983	19.25	24.49	4.71	28	4.57	4.86	0.29
1984	18.37	24.58	4.52	26	4.39	4.65	0.26
1985	18.54	24.57	4.55	27	4.43	4.68	0.24
1986	17.63	24.46	4.31	25	4.19	4.44	0.25
1987	17.31	24.65	4.27	24	4.14	4.40	0.26
1988	17.03	24.47	4.17	23	4.05	4.29	0.24
1989	16.52	24.02	3.97	22	3.86	4.08	0.22
1990	16.73	23.62	3.95	21	3.84	4.06	0.22
1991	16.50	23.73	3.92	20	3.80	4.03	0.23
1992	16.17	22.97	3.71	19	3.60	3.83	0.22
1993	15.51	23.30	3.61	18	3.51	3.72	0.22
1994	15.65	22.75	3.56	17	3.46	3.67	0.21
1995	15.35	22.01	3.38	15	3.28	3.48	0.20
1996	15.64	21.68	3.39	16	3.29	3.50	0.21
1997	15.42	21.85	3.37	14	3.27	3.47	0.21
1998	15.23	20.59	3.13	13	3.04	3.24	0.20
1999	14.91	20.73	3.09	12	2.99	3.20	0.21
2000	14.27	20.72	2.96	11	2.85	3.07	0.21
2001	13.57	20.45	2.78	10	2.67	2.88	0.21
2002	13.67	19.77	2.70	9	2.59	2.81	0.22
2003	13.39	18.73	2.51	8	2.40	2.62	0.21
2004	12.90	18.60	2.40	6	2.29	2.51	0.22
2005	13.06	19.03	2.48	7	2.37	2.61	0.24
2006	12.37	17.58	2.17	3	2.05	2.30	0.25
2007	12.32	18.48	2.28	5	2.14	2.43	0.29
2008	11.90	17.26	2.05	2	1.89	2.23	0.34
2009	12.24	16.42	2.01	1	1.76	2.30	0.55
2010	13.11	16.75	2.20	4	1.73	2.79	1.06

APPENDIX 9

CRASHWORTHINESS, INJURY RISK AND INJURY SEVERITY ESTIMATES BY YEAR OF VEHICLE MANUFACTURE BY MARKET GROUP FOR THE AUSTRALIAN VEHICLE FLEET

CRASHWORTHINESS BY YEAR OF VEHICLE MANUFACTURE BY MARKET GROUP

Year of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
Compact Sports Utility Vehicles						
1982	31.62	13.65	4.32	3.47	5.37	1.90
1983	29.57	29.10	8.61	7.71	9.61	1.90
1984	28.88	26.09	7.54	7.01	8.10	1.09
1985	32.16	21.32	6.86	6.55	7.18	0.63
1986	29.46	19.04	5.61	4.87	6.46	1.59
1987	28.81	28.13	8.10	7.33	8.95	1.62
1988	25.73	19.31	4.97	4.54	5.44	0.90
1989	25.26	24.11	6.09	5.88	6.31	0.43
1990	23.13	23.15	5.36	5.19	5.53	0.34
1991	24.53	22.89	5.61	5.41	5.83	0.42
1992	23.44	23.97	5.62	5.40	5.84	0.45
1993	21.37	24.72	5.28	5.05	5.52	0.47
1994	19.87	22.57	4.48	4.30	4.67	0.37
1995	20.33	17.00	3.46	3.25	3.68	0.42
1996	19.10	19.26	3.68	3.51	3.86	0.35
1997	17.79	21.35	3.80	3.70	3.90	0.20
1998	16.39	22.07	3.62	3.55	3.69	0.14
1999	14.99	21.22	3.18	3.12	3.24	0.12
2000	15.53	18.72	2.91	2.84	2.97	0.13
2001	14.09	20.97	2.96	2.90	3.02	0.12
2002	16.26	16.01	2.60	2.56	2.65	0.09
2003	14.90	19.23	2.86	2.82	2.91	0.10
2004	15.16	21.05	3.19	3.14	3.24	0.10
2005	15.04	17.27	2.60	2.54	2.66	0.12
2006	14.09	21.06	2.97	2.90	3.04	0.15
2007	12.31	17.09	2.10	2.02	2.19	0.16
2008	13.49	18.73	2.53	2.37	2.69	0.32
2009	12.22	8.97	1.10	0.78	1.53	0.75
Medium Sports Utility Vehicles						
1982	32.98	32.78	10.81	8.36	13.97	5.61
1983	21.21	31.81	6.75	5.48	8.30	2.82
1984	21.64	16.65	3.60	2.95	4.41	1.46
1985	22.28	28.62	6.38	5.96	6.82	0.86
1986	18.37	11.22	2.06	1.46	2.90	1.44
1987	19.29	30.40	5.86	4.98	6.91	1.93
1988	16.72	39.67	6.63	6.07	7.25	1.18
1989	18.56	17.15	3.18	2.95	3.43	0.48
1990	17.94	21.96	3.94	3.66	4.24	0.57
1991	19.35	21.06	4.08	3.36	4.94	1.57
1992	14.54	19.08	2.77	2.61	2.95	0.34
1993	14.50	22.37	3.24	3.08	3.42	0.34

Year of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
1994	12.37	23.06	2.85	2.67	3.04	0.37
1995	12.96	24.35	3.16	3.00	3.32	0.32
1996	14.22	20.08	2.86	2.71	3.01	0.31
1997	14.44	22.68	3.28	3.17	3.39	0.22
1998	15.61	20.09	3.14	2.99	3.29	0.30
1999	13.70	21.36	2.93	2.79	3.07	0.28
2000	13.54	18.52	2.51	2.37	2.65	0.28
2001	11.12	23.50	2.61	2.52	2.71	0.19
2002	11.64	23.34	2.72	2.62	2.82	0.20
2003	11.09	14.67	1.63	1.53	1.73	0.19
2004	11.06	18.70	2.07	2.01	2.13	0.12
2005	11.35	20.18	2.29	2.20	2.38	0.18
2006	11.42	13.14	1.50	1.43	1.58	0.15
2007	13.00	14.35	1.86	1.76	1.97	0.21
2008	10.61	15.63	1.66	1.52	1.81	0.29
2009	12.86	28.23	3.63	3.12	4.23	1.11
Large Sports Utility Vehicles						
1982	18.33	24.02	4.40	4.24	4.58	0.34
1983	16.86	27.04	4.56	4.38	4.74	0.36
1984	15.02	24.94	3.74	3.63	3.86	0.22
1985	17.57	28.05	4.93	4.84	5.02	0.18
1986	14.08	24.30	3.42	3.27	3.58	0.30
1987	16.20	24.49	3.97	3.77	4.17	0.40
1988	14.92	28.17	4.20	4.11	4.30	0.19
1989	13.81	24.01	3.32	3.26	3.38	0.12
1990	13.37	19.55	2.61	2.56	2.67	0.12
1991	12.60	22.12	2.79	2.72	2.86	0.14
1992	12.88	23.64	3.04	2.98	3.10	0.12
1993	12.56	23.20	2.91	2.85	2.98	0.12
1994	12.76	23.07	2.94	2.88	3.01	0.12
1995	12.46	23.87	2.98	2.91	3.05	0.14
1996	13.18	23.57	3.11	3.04	3.17	0.13
1997	12.21	20.64	2.52	2.47	2.57	0.10
1998	12.66	19.79	2.51	2.46	2.55	0.09
1999	12.08	21.53	2.60	2.55	2.65	0.10
2000	11.22	22.31	2.50	2.44	2.57	0.12
2001	11.04	19.59	2.16	2.05	2.28	0.22
2002	11.33	15.70	1.78	1.69	1.87	0.18
2003	10.45	17.72	1.85	1.76	1.94	0.18
2004	9.77	16.48	1.61	1.51	1.71	0.20
2005	10.70	20.94	2.24	2.11	2.38	0.27
2006	10.14	19.44	1.97	1.83	2.12	0.29
2007	9.55	19.67	1.88	1.65	2.14	0.49
2008	9.61	13.56	1.30	1.10	1.54	0.45
Commercial - Vans						
1982	26.04	26.42	6.88	6.66	7.11	0.45

Year of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
1983	27.12	28.98	7.86	7.64	8.09	0.45
1984	25.33	25.55	6.47	6.32	6.64	0.32
1985	23.21	24.19	5.61	5.46	5.77	0.31
1986	23.01	22.11	5.09	4.94	5.24	0.31
1987	22.90	19.36	4.43	4.23	4.64	0.41
1988	22.46	30.27	6.80	6.63	6.97	0.34
1989	21.94	25.45	5.58	5.37	5.81	0.44
1990	20.45	22.09	4.52	4.32	4.72	0.40
1991	17.35	29.15	5.06	4.81	5.32	0.51
1992	18.78	20.83	3.91	3.69	4.14	0.45
1993	17.06	25.77	4.40	4.15	4.66	0.50
1994	17.98	24.89	4.48	4.27	4.69	0.42
1995	18.57	25.14	4.67	4.50	4.84	0.34
1996	16.03	17.91	2.87	2.69	3.07	0.38
1997	16.71	26.96	4.51	4.30	4.72	0.41
1998	17.26	16.00	2.76	2.60	2.94	0.34
1999	15.30	20.08	3.07	2.91	3.24	0.34
2000	15.31	21.70	3.32	3.16	3.50	0.34
2001	14.06	19.47	2.74	2.55	2.93	0.38
2002	14.86	17.15	2.55	2.38	2.73	0.36
2003	12.30	17.42	2.14	1.99	2.31	0.32
2004	15.83	15.31	2.42	2.21	2.65	0.44
2005	13.99	23.18	3.24	2.96	3.55	0.58
2006	14.05	18.02	2.53	2.19	2.93	0.73
2007	13.96	16.73	2.34	1.83	2.98	1.15
2008	15.29	17.64	2.70	2.14	3.40	1.27
Commercial - Utes						
1982	19.84	26.21	5.20	5.12	5.29	0.17
1983	17.94	26.80	4.81	4.71	4.91	0.19
1984	19.30	25.07	4.84	4.78	4.89	0.11
1985	21.62	26.01	5.62	5.58	5.67	0.10
1986	19.36	24.05	4.66	4.60	4.71	0.11
1987	19.25	21.39	4.12	4.04	4.19	0.15
1988	18.47	26.16	4.83	4.78	4.88	0.10
1989	18.12	22.70	4.11	4.08	4.14	0.06
1990	18.07	23.20	4.19	4.16	4.22	0.06
1991	16.76	24.22	4.06	4.02	4.10	0.08
1992	17.83	23.44	4.18	4.14	4.21	0.07
1993	16.73	25.56	4.28	4.24	4.31	0.07
1994	16.41	24.53	4.03	4.00	4.06	0.06
1995	16.21	22.03	3.57	3.54	3.60	0.06
1996	16.79	22.34	3.75	3.72	3.78	0.06
1997	16.84	22.64	3.81	3.78	3.84	0.06
1998	15.32	19.74	3.02	3.00	3.05	0.05
1999	15.51	21.85	3.39	3.36	3.42	0.06
2000	15.08	20.70	3.12	3.09	3.15	0.06
2001	13.91	20.59	2.86	2.83	2.89	0.06
2002	12.87	19.36	2.49	2.47	2.52	0.05

Year of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
2003	13.07	19.30	2.52	2.50	2.55	0.05
2004	13.65	19.86	2.71	2.69	2.74	0.05
2005	13.70	19.36	2.65	2.62	2.68	0.07
2006	12.06	17.20	2.07	2.04	2.11	0.07
2007	12.40	16.11	2.00	1.96	2.04	0.08
2008	12.22	13.00	1.59	1.53	1.65	0.13
2009	12.86	19.45	2.50	2.31	2.70	0.39
2010	9.28	13.12	1.22	0.66	2.25	1.60
Large Cars						
1982	19.77	26.01	5.14	5.13	5.16	0.03
1983	20.39	25.56	5.21	5.20	5.23	0.03
1984	19.91	24.33	4.84	4.83	4.86	0.02
1985	19.58	23.93	4.69	4.68	4.70	0.02
1986	19.32	23.96	4.63	4.62	4.64	0.02
1987	18.98	24.58	4.67	4.66	4.68	0.02
1988	18.32	24.60	4.51	4.50	4.51	0.02
1989	17.91	24.32	4.35	4.35	4.36	0.01
1990	18.52	23.71	4.39	4.39	4.40	0.01
1991	18.07	23.35	4.22	4.21	4.23	0.02
1992	17.63	21.99	3.88	3.87	3.88	0.01
1993	16.59	22.67	3.76	3.75	3.77	0.01
1994	16.95	22.25	3.77	3.77	3.78	0.01
1995	16.59	21.20	3.52	3.51	3.52	0.01
1996	16.98	20.83	3.54	3.53	3.54	0.01
1997	16.35	20.51	3.35	3.35	3.36	0.01
1998	16.33	19.49	3.18	3.18	3.19	0.01
1999	16.38	19.55	3.20	3.19	3.21	0.01
2000	15.78	19.74	3.12	3.11	3.12	0.02
2001	15.74	20.41	3.21	3.20	3.22	0.02
2002	15.49	19.95	3.09	3.08	3.10	0.02
2003	14.93	17.84	2.66	2.65	2.67	0.02
2004	14.39	16.30	2.35	2.33	2.36	0.03
2005	13.98	17.46	2.44	2.43	2.46	0.03
2006	13.83	16.87	2.33	2.31	2.36	0.06
2007	13.62	17.13	2.33	2.30	2.37	0.08
2008	12.32	17.52	2.16	2.10	2.22	0.13
2009	12.10	14.80	1.79	1.64	1.95	0.31
2010	17.44	14.68	2.56	1.54	4.25	2.71
Medium Cars						
1982	22.55	24.34	5.49	5.47	5.50	0.03
1983	21.91	22.68	4.97	4.96	4.98	0.03
1984	21.87	23.81	5.21	5.20	5.22	0.03
1985	21.96	22.95	5.04	5.02	5.05	0.03
1986	20.84	24.68	5.15	5.12	5.17	0.04
1987	20.71	23.03	4.77	4.74	4.79	0.05
1988	19.98	23.78	4.75	4.74	4.77	0.03

Year of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
1989	19.96	24.12	4.81	4.80	4.82	0.02
1990	18.95	22.88	4.34	4.33	4.35	0.02
1991	19.47	22.96	4.47	4.46	4.48	0.03
1992	17.85	22.02	3.93	3.91	3.95	0.03
1993	16.97	22.24	3.77	3.76	3.79	0.03
1994	16.99	21.48	3.65	3.63	3.66	0.03
1995	16.59	20.95	3.47	3.46	3.49	0.04
1996	16.87	20.78	3.51	3.49	3.53	0.04
1997	16.71	20.28	3.39	3.36	3.41	0.05
1998	16.54	17.86	2.95	2.92	2.99	0.07
1999	15.88	19.90	3.16	3.12	3.20	0.07
2000	15.50	19.02	2.95	2.91	2.99	0.08
2001	15.33	19.33	2.96	2.92	3.00	0.08
2002	14.35	17.63	2.53	2.48	2.58	0.11
2003	14.81	16.57	2.46	2.40	2.51	0.11
2004	14.77	16.59	2.45	2.39	2.51	0.12
2005	14.69	13.56	1.99	1.93	2.05	0.12
2006	12.98	14.66	1.90	1.83	1.98	0.15
2007	14.50	17.41	2.53	2.42	2.64	0.22
2008	14.61	15.72	2.30	2.15	2.45	0.30
2009	9.17	11.89	1.09	0.79	1.49	0.70
People Movers						
1982	28.15	34.84	9.81	9.48	10.15	0.67
1983	25.86	25.20	6.52	6.39	6.64	0.25
1984	25.89	28.87	7.47	7.36	7.59	0.22
1985	26.15	25.50	6.67	6.54	6.80	0.25
1986	25.55	24.40	6.23	6.00	6.48	0.48
1987	22.23	20.71	4.60	4.21	5.03	0.82
1988	21.21	20.57	4.36	4.17	4.57	0.40
1989	22.70	30.47	6.92	6.78	7.05	0.27
1990	19.40	26.08	5.06	4.88	5.24	0.36
1991	19.65	21.60	4.24	4.07	4.43	0.36
1992	19.34	17.75	3.43	3.27	3.61	0.34
1993	17.65	25.40	4.48	4.31	4.66	0.35
1994	17.15	22.64	3.88	3.70	4.08	0.38
1995	16.07	20.93	3.36	3.13	3.61	0.48
1996	15.79	15.83	2.50	2.26	2.77	0.51
1997	15.98	23.12	3.70	3.45	3.95	0.50
1998	14.96	17.19	2.57	2.34	2.83	0.49
1999	15.03	17.77	2.67	2.45	2.91	0.47
2000	13.17	26.47	3.49	3.27	3.72	0.45
2001	14.47	16.86	2.44	2.21	2.69	0.47
2002	13.20	18.78	2.48	2.24	2.74	0.50
2003	12.64	23.27	2.94	2.68	3.22	0.54
2004	12.47	18.53	2.31	2.08	2.56	0.48
2005	13.63	18.87	2.57	2.34	2.83	0.48
2006	13.96	13.97	1.95	1.54	2.47	0.94
2007	13.06	18.40	2.40	2.03	2.85	0.83

Year of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
2008	12.02	16.54	1.99	1.19	3.32	2.13
Small Cars						
1982	25.01	25.44	6.36	6.35	6.38	0.03
1983	25.78	24.11	6.22	6.20	6.23	0.03
1984	24.38	23.86	5.82	5.80	5.83	0.03
1985	25.17	24.36	6.13	6.11	6.15	0.03
1986	23.96	23.49	5.63	5.61	5.64	0.03
1987	23.79	24.88	5.92	5.90	5.94	0.04
1988	23.23	24.46	5.68	5.67	5.70	0.03
1989	22.16	24.52	5.43	5.42	5.45	0.02
1990	21.58	23.95	5.17	5.16	5.18	0.02
1991	21.37	23.20	4.96	4.95	4.97	0.02
1992	21.17	22.72	4.81	4.80	4.82	0.02
1993	20.83	22.74	4.74	4.73	4.75	0.02
1994	21.08	21.28	4.49	4.48	4.50	0.02
1995	20.26	22.97	4.65	4.64	4.66	0.02
1996	20.96	21.64	4.54	4.52	4.55	0.02
1997	20.55	22.95	4.72	4.71	4.72	0.02
1998	20.42	21.55	4.40	4.39	4.41	0.02
1999	19.87	21.44	4.26	4.25	4.27	0.02
2000	18.65	21.50	4.01	4.00	4.02	0.02
2001	17.61	19.65	3.46	3.45	3.47	0.02
2002	18.28	19.95	3.65	3.63	3.66	0.03
2003	18.13	18.93	3.43	3.42	3.45	0.03
2004	17.02	18.16	3.09	3.07	3.11	0.03
2005	17.36	19.54	3.39	3.38	3.41	0.03
2006	15.58	16.59	2.59	2.57	2.61	0.04
2007	15.84	18.72	2.96	2.94	2.99	0.06
2008	14.95	16.82	2.51	2.48	2.55	0.08
2009	15.07	18.84	2.84	2.74	2.94	0.19
2010	22.51	20.98	4.72	4.25	5.24	0.99
Light Cars						
1982	29.21	28.27	8.26	8.13	8.38	0.25
1983	30.88	22.59	6.98	6.89	7.07	0.18
1984	27.70	22.25	6.16	6.10	6.23	0.13
1985	29.00	28.92	8.39	8.34	8.44	0.10
1986	27.78	27.69	7.69	7.62	7.77	0.15
1987	27.64	29.74	8.22	8.13	8.31	0.18
1988	27.82	21.56	6.00	5.92	6.08	0.16
1989	25.09	24.10	6.05	6.00	6.09	0.09
1990	26.34	26.15	6.89	6.84	6.93	0.09
1991	25.17	25.59	6.44	6.41	6.47	0.07
1992	25.35	26.02	6.59	6.56	6.62	0.06
1993	24.94	26.02	6.49	6.46	6.52	0.06
1994	24.28	23.48	5.70	5.67	5.73	0.06
1995	24.06	23.14	5.57	5.54	5.59	0.04

Year of Manufacture	Pr(Risk) %	Pr(Severity) %	Serious injury rate per 100 drivers involved %	Lower 95% Confidence Limit	Upper 95% Confidence Limit	Width of Confidence Interval
1996	23.89	22.46	5.37	5.34	5.39	0.06
1997	22.85	24.19	5.53	5.50	5.56	0.05
1998	22.99	22.85	5.25	5.23	5.28	0.05
1999	23.20	21.66	5.02	4.99	5.06	0.07
2000	22.19	20.67	4.59	4.54	4.63	0.09
2001	20.06	21.49	4.31	4.25	4.38	0.13
2002	19.51	21.75	4.24	4.18	4.31	0.13
2003	20.11	21.59	4.34	4.30	4.39	0.09
2004	18.46	19.28	3.56	3.51	3.60	0.09
2005	18.77	21.51	4.04	4.00	4.08	0.08
2006	17.51	20.68	3.62	3.58	3.66	0.08
2007	17.30	20.15	3.49	3.44	3.54	0.10
2008	16.14	20.01	3.23	3.15	3.31	0.15
2009	17.35	15.62	2.71	2.54	2.89	0.35
2010	24.18	23.69	5.73	4.78	6.87	2.09