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**Department of Infrastructure and Regional Development**

Bureau of Infrastructure, Transport and Regional Economics

STATISTICAL REPORT



bitre  
Safety

**Road Trauma Australia  
2014 Statistical Summary**

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Bureau of Infrastructure, Transport and Regional Economics (BITRE)  
Department of Infrastructure and Regional Development  
GPO Box 501, Canberra ACT 2601, Australia  
Telephone: (international) +61 2 6274 7210  
Fax: (international) +61 2 6274 6855  
Email: [bitre@infrastructure.gov.au](mailto:bitre@infrastructure.gov.au)  
Website: [www.bitre.gov.au](http://www.bitre.gov.au)

Bureau of Infrastructure, Transport and Regional Economics

Road trauma Australia  
2014 statistical summary

Department of Infrastructure and Regional Development  
Canberra, Australia

## At a glance

This report is the latest in a series of annual road crash statistical reports. It presents annual counts of fatalities, fatal crashes and injuries, as well as rates. The focus is on the last ten years. This year is the first in the series to include tables of hospitalised injury (non-fatal) data.

Over the last decade annual fatalities decreased by 28.9 per cent (Table 1.1), and annual fatalities per 100,000 population decreased by 39.0 per cent (Table 2.1). The rate of annual deaths per 100,000 population in 2014 was 4.92—the lowest calendar year figure on record.

Analysis by road user type shows that passenger deaths decreased at the fastest rate over the decade, with consistent reductions seen also for driver deaths and pedestrian deaths. Motorcyclist deaths have also fallen but at a slower rate. No decreasing trend was seen in pedal cyclist deaths (Table 1.1).

Road users aged 65 and over presently account for 21 per cent of all deaths. Ten years ago this proportion was 16 per cent (Table 1.2). This group presently makes up 15 per cent of the total population, compared to 13 per cent ten years ago.

Around half of all deaths are from either head-on or single vehicle run-off-road crashes (Table 1.8).

The largest reductions in the rates of fatalities per population were achieved in Tasmania, Queensland, New South Wales and the Australian Capital Territory. Smaller but significant reductions were achieved in all other jurisdictions (Table 2.1).

Over the decade to 2011, rates of annual hospitalised injuries per 100,000 population increased by 6.4 per cent to 152.6 (Table 2.6). This is 27 times the rate for fatalities.

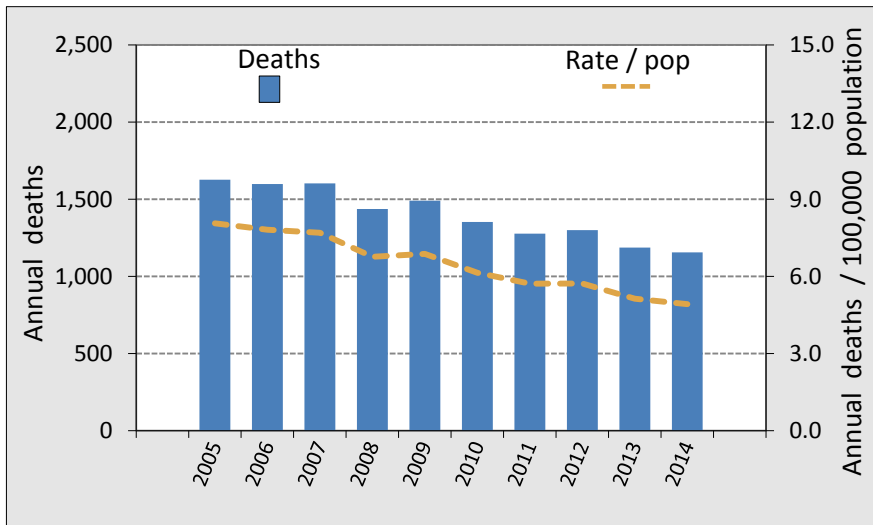
Over the decade to 2014, counts for each type of fatal crash (single vehicle, multiple vehicle or pedestrian) declined by more than 25 per cent. Pedestrian crashes declined the most (Table 3.1).

Fatal multiple-vehicle crashes are three times more likely to occur during the day (6am to 6pm) than during the night. Single-vehicle and pedestrian crashes are both distributed similarly between day and night (Table 3.2).

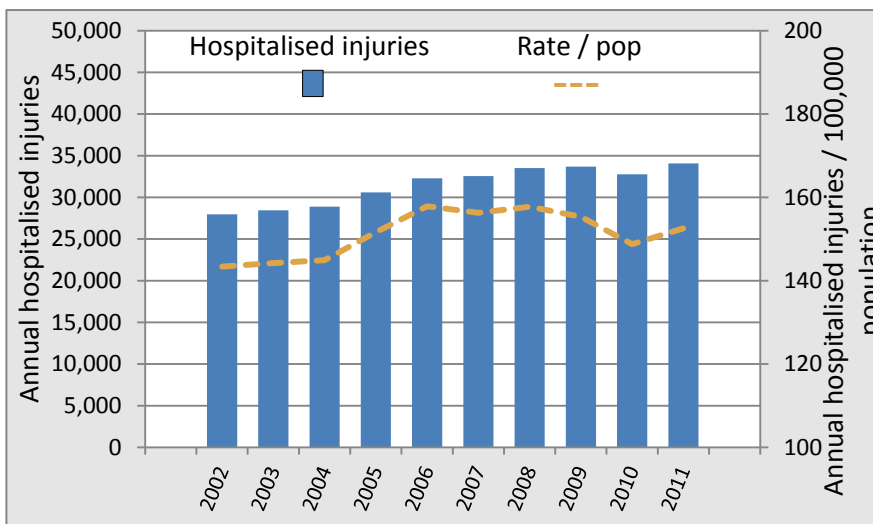
The distribution of fatal crashes by road type did not change between 2008 and 2013. National or State highways account for 30 per cent of fatal crashes (Table 3.7).

In 2013, major cities accounted for 36 per cent of all fatal crashes—down from 40 per cent in 2008 (Table 3.8).

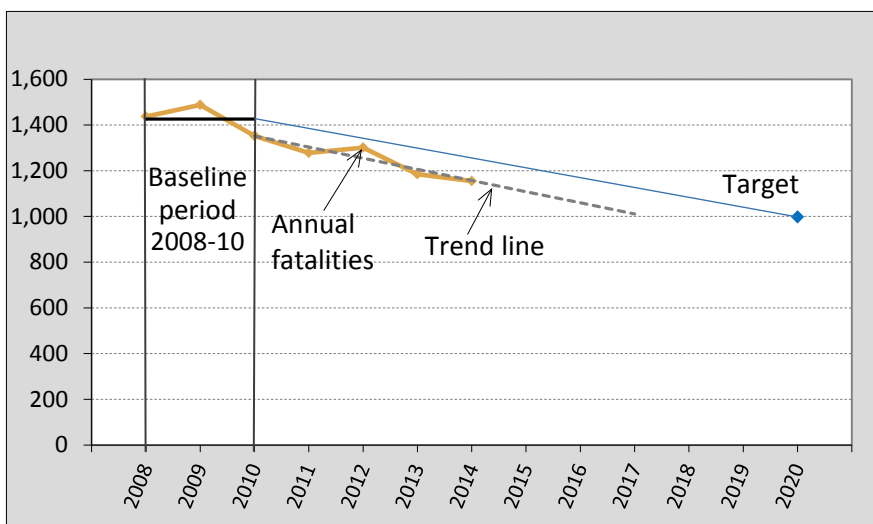
### National fatalities and rate per 100,000 population, 2005 – 2014



### National hospitalised injuries and rate per 100,000 population, 2002 – 2011



### NRSS 2011 - 2020 statistical progress towards fatality target



# Data sources

Fatality-related data in this report is sourced from two databases: the Australian Road Deaths Database and the National Crash Database.

The scope of the Australian Road Deaths Database is all fatal road crashes in Australia. It contains basic information relating to the crashes and broad demographics for the persons killed. The database commenced in 1989 and is updated each month. For this report the April 2015 update was used. The primary sources for the Australian Road Deaths Database are the state and territory road safety authorities and police agencies. The database is publicly available at <<https://www.bitre.gov.au>>.

The National Crash Database was developed in order to monitor progress against the statistical targets set out in the National Road Safety Strategy. Its scope is all fatal and injury road crashes. At present it covers the years 2008 to 2013, and updates are annual. The primary sources for the National Crash Database are the state and territory road safety authorities. Due to the timing differences in data receipt and ongoing validation by data providers, there are minor data differences between the two databases.

Non-fatal road traffic crash casualty data (referred to here as ‘hospitalised injury’) is collated from published reports by the Australian Institute of Health and Welfare (AIHW) and by the National Injury Surveillance Unit (NISU), as well as from unpublished National Hospital Morbidity Database reports compiled by NISU. Refer to Berry and Harrison (2008) for information regarding inclusion criteria for traffic crash hospitalised injuries.

Population and vehicle registration data is sourced from the Australian Bureau of Statistics (ABS). Vehicle-kilometres-travelled data is sourced from BITRE.

# Acknowledgements

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Transport for New South Wales;  
VicRoads;  
Queensland Department of Transport and Main Roads;  
Department of Planning, Transport and Infrastructure South Australia;  
Western Australian Police;  
Department of State Growth, Tasmania;  
Department of Transport, Northern Territory;  
Territory and Municipal Services Directorate, Australian Capital Territory;  
National Injury Surveillance Unit.

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# CHAPTER I      Casualties

This chapter presents annual counts of deaths and hospitalised injuries. Classifications include jurisdiction, road user type, age-group, gender, common crash type and vehicle type. The data for fatalities covers the decade to 2014, with some tables showing more detail for the years 2008-2013. Hospitalised injuries (national only) are available for the years 2008-2011.

## Deaths

- Over the last decade total annual deaths decreased by 28.9 per cent. The estimated trend is a reduction of 4.0 per cent per year. Across jurisdictions the strongest downward trends were achieved in New South Wales, Queensland, Tasmania and the Australian Capital Territory (Table I.1, p 2).
- Analysis of road user type shows that passenger deaths decreased at the fastest rate, with consistent reductions seen also for driver deaths and pedestrian deaths. Motorcyclist deaths have also fallen but at a slower rate. No decreasing trend was seen in pedal cyclist deaths (Table I.1, p 2).
- Of the age groups presented, deaths in the 17-25 years group have shown the fastest rate of decrease. This age group accounts for 20 per cent of all deaths. Road users aged 65 and over presently account for 21 per cent of all deaths. Ten years ago this proportion was 16 per cent. This group makes up 15 per cent of the total population (Table I.2, p 6).
- Between 2008 and 2013 annual deaths from crashes involving a younger driver (aged 17-25) decreased by 39 per cent. Over the same period, deaths from crashes involving an older driver (aged 65 and over) increased by 17 per cent (Table I.7, p 14).
- Around half of all deaths are from either head-on or single vehicle run-off-road crashes. This proportion did not change during the five years to 2013 (Table I.8, p 15).

## Hospitalised injuries

- Between 2008 and 2011, hospitalised injury counts increased by 1.7 per cent (Table I.9, p 16). Fatalities during this period decreased by 11.1 per cent.
- Analysis of hospitalised injuries by age group shows a similar pattern to fatalities: during 2008 to 2011, injuries to people aged under 40 years decreased by 6.8 per cent, whereas for people aged 40 years and over, they increased by 16 per cent (Table I.9, p 16).

**Table 1.1 Deaths by jurisdiction and road user**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas</i>	<i>NT</i>	<i>ACT</i>	<i>Australia</i>
<b>All road users<sup>a</sup></b>									
2005	508	346	330	148	163	51	55	26	1,627
2006	496	337	335	117	200	55	45	13	1,598
2007	435	332	360	124	235	45	58	14	1,603
2008	374	303	328	99	205	39	75	14	1,437
2009	454	290	331	119	191	63	31	12	1,491
2010	405	288	249	118	193	31	50	19	1,353
2011	364	287	269	103	179	24	45	6	1,277
2012	369	282	280	94	183	31	49	12	1,300
2013	333	243	271	98	162	36	37	7	1,187
2014	312	249	223	107	181	35	39	10	1,156
% change 2013-2014	-6.3	2.5	-17.7	9.2	11.7	-2.8	5.4	42.9	-2.6
Ave. trend change p.a. (%)	-4.8	-3.7	-4.2	-3.2	-1.3	-6.1	-3.8	-9.1	-4.0
<b>Drivers</b>									
2005	235	164	157	73	86	28	24	8	775
2006	249	155	156	58	92	26	15	6	757
2007	215	173	171	60	113	21	24	8	785
2008	194	140	141	45	104	19	24	3	670
2009	210	142	155	60	91	29	16	4	707
2010	185	130	114	57	99	16	25	10	636
2011	181	121	108	40	85	13	17	3	568
2012	164	146	125	52	87	14	19	3	610
2013	155	121	136	50	69	13	11	2	557
2014	156	113	106	51	75	20	10	4	535
% change 2013-2014	0.6	-6.6	-22.1	2.0	8.7	53.8	-9.1	100.0	-3.9
Ave. trend change p.a. (%)	-5.1	-3.8	-4.3	-3.2	-3.0	-6.8	-6.9	-10.3	-4.4
<b>Passengers</b>									
2005	100	78	65	39	35	10	16	4	347
2006	102	63	66	21	52	20	11	1	336
2007	77	67	64	36	61	11	18	2	336
2008	67	52	78	24	43	11	24	4	303
2009	103	54	68	32	44	21	7	4	333
2010	89	62	50	24	39	5	13	2	284
2011	73	60	73	22	37	3	18	0	286
2012	82	53	58	14	35	5	12	1	260
2013	49	39	56	17	27	5	9	2	204
2014	43	50	52	24	38	9	11	2	229
% change 2013-2014	-12.2	28.2	-7.1	41.2	40.7	80.0	22.2	0.0	12.3
Ave. trend change p.a. (%)	-7.2	-4.7	-2.5	-6.5	-4.3	-11.4	-4.2	-	-5.2

**Table I.1 Deaths by jurisdiction and road user (continued)**

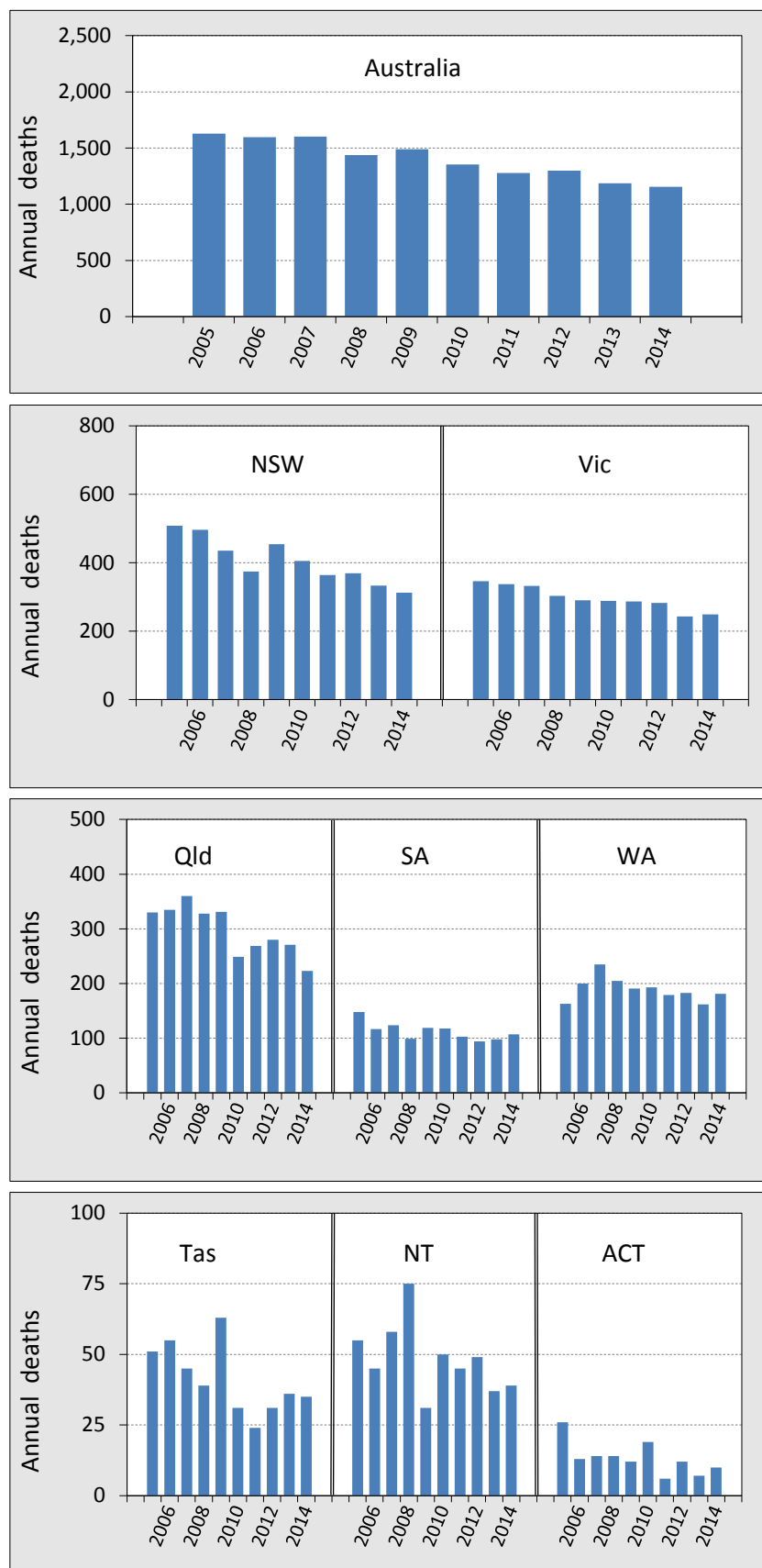
	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas</i>	<i>NT</i>	<i>ACT</i>	<i>Australia</i>
<b><i>Pedestrians</i></b>									
2005	96	49	38	12	16	2	8	5	226
2006	72	58	46	12	22	3	13	2	228
2007	68	41	42	15	20	4	13	1	204
2008	49	59	30	12	18	1	17	3	189
2009	59	50	40	10	25	3	7	2	196
2010	59	39	28	16	15	6	7	0	170
2011	49	49	33	17	26	4	8	0	186
2012	55	35	27	9	24	6	10	4	170
2013	44	36	21	13	31	3	9	1	158
2014	42	46	19	17	16	3	8	1	152
% change 2013-2014	-4.5	27.8	-9.5	30.8	-48.4	0.0	-11.1	0.0	-3.8
Ave. trend change p.a. (%)	-7.0	-3.3	-8.1	1.6	2.4	6.6	-3.7	-	-4.3
<b><i>Motorcyclists<sup>b</sup></i></b>									
2005	64	48	64	19	21	7	2	8	233
2006	66	47	58	22	31	5	6	3	238
2007	61	45	73	8	37	7	3	3	237
2008	55	43	72	17	36	8	10	4	245
2009	69	38	60	15	31	8	1	2	224
2010	61	49	50	16	35	3	5	5	224
2011	51	49	45	21	28	3	2	3	202
2012	61	41	60	15	34	5	4	3	223
2013	71	41	45	12	25	11	6	2	213
2014	60	30	37	11	43	3	6	2	192
% change 2013-2014	-15.5	-26.8	-17.8	-8.3	72.0	-72.7	0.0	0.0	-9.9
Ave. trend change p.a. (%)	-0.3	-3.0	-5.5	-3.2	2.4	-4.6	5.0	-8.8	-2.0
<b><i>Pedal Cyclists<sup>b</sup></i></b>									
2005	13	7	5	3	5	4	3	1	41
2006	7	14	9	4	3	1	0	1	39
2007	14	6	10	5	4	2	0	0	41
2008	8	9	7	1	3	0	0	0	28
2009	13	6	8	2	0	2	0	0	31
2010	11	8	7	5	4	1	0	2	38
2011	10	8	9	3	3	1	0	0	34
2012	7	7	10	3	3	1	1	1	33
2013	14	6	13	5	6	4	2	0	50
2014	11	10	9	4	9	0	1	1	45
% change 2013-2014	-21.4	66.7	-30.8	-20.0	50.0	-100.0	-50.0	-	-10.0
Ave. trend change p.a. (%)	0.2	-1.2	5.3	3.6	-	-	-	-	1.4

a Drivers, passengers, pedestrians, motorcyclists, pedal cyclists and those with unstated or unknown road user type.

b Includes pillion passengers.

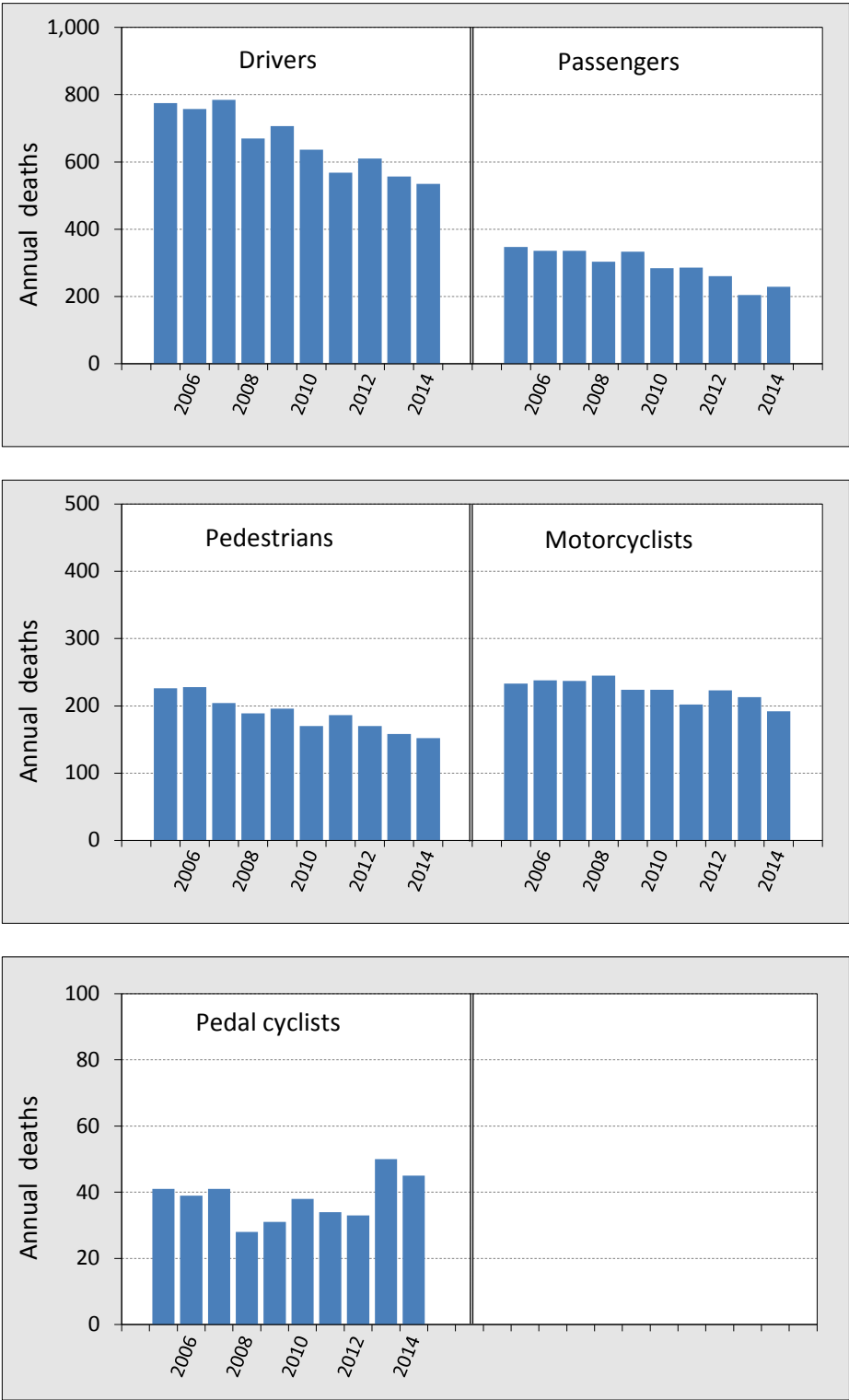
Source Australian Road Deaths Database

**Figure 1.1 Deaths by jurisdiction**



Source Australian Road Deaths Database

Figure 1.2 Deaths by road user group



Source Australian Road Deaths Database



**Table 1.2** Deaths by jurisdiction and age group

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas</i>	<i>NT</i>	<i>ACT</i>	<i>Australia</i>
<b>0-16 years</b>									
2005	29	17	31	10	9	4	8	2	110
2006	41	31	21	6	10	7	2	0	118
2007	23	20	26	7	16	3	6	0	101
2008	17	15	20	7	17	4	6	1	87
2009	33	19	27	7	16	4	0	0	106
2010	17	14	16	6	13	2	5	1	74
2011	19	22	29	5	11	1	6	0	93
2012	22	13	15	5	9	2	3	1	70
2013	12	8	24	5	13	1	3	0	66
2014	12	15	13	8	11	4	2	0	65
% change 2013-2014	0.0	87.5	-45.8	60.0	-15.4	300.0	-33.3	-	-1.5
Ave. trend change p.a. (%)	-9.8	-7.0	-5.3	-3.6	-0.5	-11.7	-	-	-6.3
<b>17-25 years</b>									
2005	111	104	91	48	50	9	5	8	426
2006	142	71	89	28	68	19	14	4	435
2007	94	85	89	38	54	13	15	4	392
2008	91	80	87	29	59	10	19	2	377
2009	105	66	82	40	43	14	9	3	362
2010	100	74	59	32	48	6	13	4	336
2011	79	72	50	13	48	4	13	1	280
2012	83	65	72	17	38	3	5	1	284
2013	74	39	58	15	30	6	6	2	230
2014	67	49	46	18	41	3	6	3	233
% change 2013-2014	-9.5	25.6	-20.7	20.0	36.7	-50.0	0.0	50.0	1.3
Ave. trend change p.a. (%)	-6.0	-7.3	-7.1	-11.3	-5.8	-16.1	-6.2	-12.7	-7.3
<b>26-39 years</b>									
2005	120	94	85	32	44	11	20	8	414
2006	110	86	97	27	43	12	15	3	393
2007	100	83	93	24	76	12	20	4	412
2008	75	67	86	26	54	13	21	3	345
2009	106	62	84	26	54	9	10	4	355
2010	84	63	59	19	51	7	16	6	305
2011	63	52	76	28	39	5	10	2	275
2012	73	61	70	14	58	4	17	3	300
2013	67	46	54	11	43	8	13	1	243
2014	54	57	55	20	39	4	19	4	252
% change 2013-2014	-19.4	23.9	1.9	81.8	-9.3	-50.0	46.2	300.0	3.7
Ave. trend change p.a. (%)	-7.6	-6.5	-6.0	-7.7	-2.1	-11.7	-2.4	-9.3	-6.0

**Table 1.2** Deaths by jurisdiction and age group (continued)

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>40-64 years</b>									
2005	140	76	79	38	38	16	18	3	408
2006	120	96	88	40	57	11	10	2	424
2007	129	95	104	24	66	14	16	3	451
2008	115	83	90	24	50	8	22	3	395
2009	129	91	95	34	56	25	10	5	445
2010	125	86	79	43	57	9	13	6	418
2011	131	84	73	35	48	10	14	3	398
2012	106	86	85	31	56	12	20	4	400
2013	104	79	89	38	45	8	10	1	374
2014	98	72	75	33	56	14	12	2	362
% change 2013-2014	-5.8	-8.9	-15.7	-13.2	24.4	75.0	20.0	100.0	-3.2
Ave. trend change p.a. (%)	-2.9	-1.4	-1.3	0.6	0.6	-2.7	-2.2	-4.1	-1.6
<b>65-74 years</b>									
2005	42	23	21	7	9	3	4	3	112
2006	44	20	9	10	10	2	1	2	98
2007	39	21	21	8	8	1	0	3	101
2008	32	14	17	5	15	1	2	0	86
2009	33	18	19	2	14	6	2	0	94
2010	35	17	15	9	13	5	3	0	97
2011	21	19	21	5	14	2	1	0	83
2012	35	22	14	7	10	5	2	1	96
2013	33	26	19	9	19	7	5	0	118
2014	36	22	20	14	15	3	0	1	111
% change 2013-2014	9.1	-15.4	5.3	55.6	-21.1	-57.1	-100.0	-	-5.9
Ave. trend change p.a. (%)	-3.1	1.5	1.9	3.9	6.2	12.0	-	-	0.5
<b>≥ 75 years</b>									
2005	63	32	23	13	13	8	0	2	154
2006	39	33	31	6	12	4	2	2	129
2007	50	28	27	23	15	2	0	0	145
2008	44	44	28	8	10	3	5	5	147
2009	48	34	24	10	8	5	0	0	129
2010	43	34	21	9	11	2	0	2	122
2011	51	38	20	17	19	2	1	0	148
2012	49	35	24	20	12	5	2	2	149
2013	43	45	27	20	12	6	0	3	156
2014	44	34	14	13	18	7	0	0	130
% change 2013-2014	2.3	-24.4	-48.1	-35.0	50.0	16.7	-	-100.0	-16.7
Ave. trend change p.a. (%)	-1.4	2.1	-4.3	6.2	2.5	2.5	-	-	-0.1

Source Australian Road Deaths Database

**Table 1.3 Deaths by road user and age group**

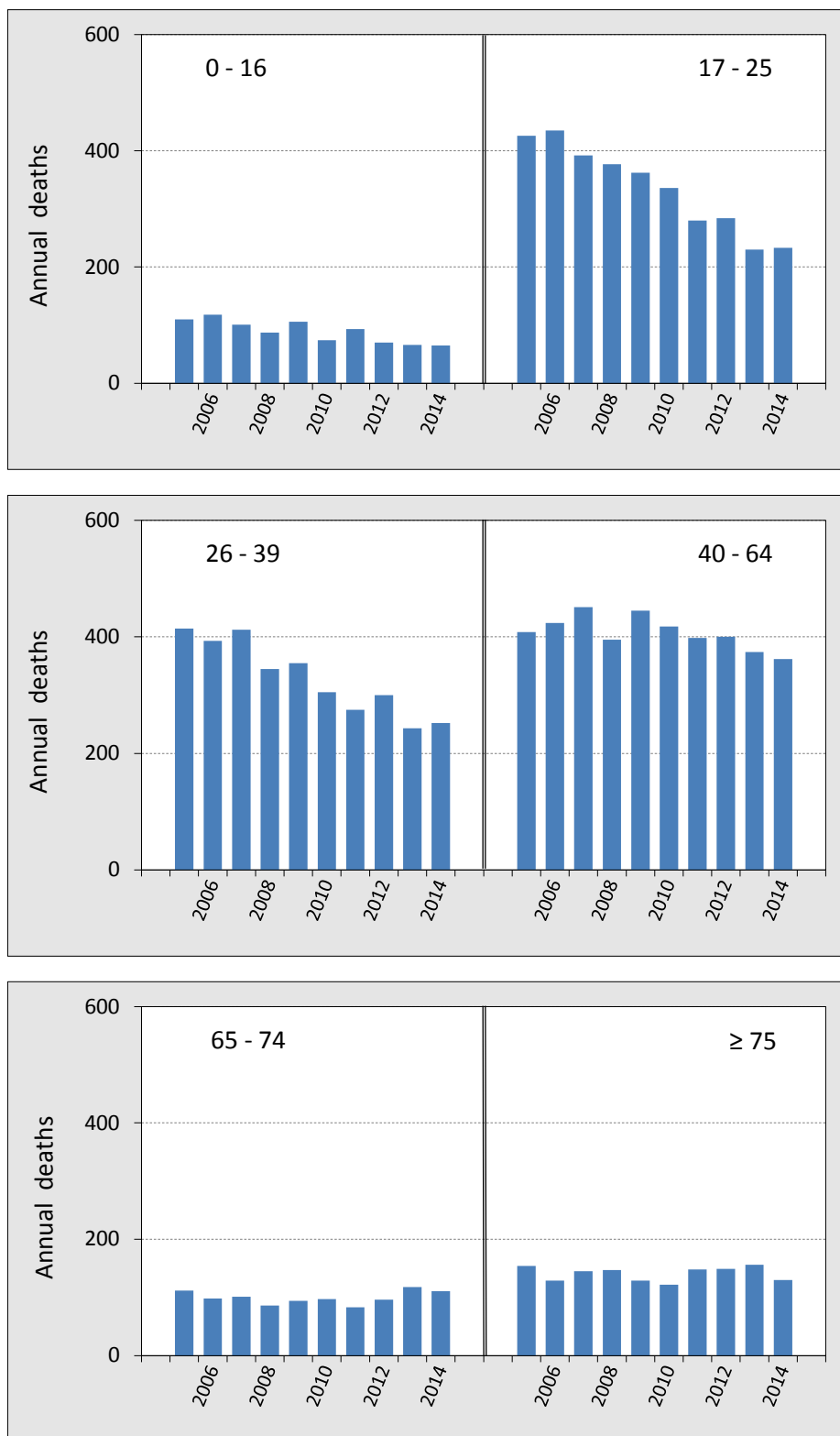
	<i>Drivers</i>	<i>Passengers</i>	<i>Pedestrians</i>	<i>Motor-cyclists</i>	<i>Pedal cyclists</i>	<i>All road users<sup>a</sup></i>
<b>0 – 16 years</b>						
2005	5	74	20	3	8	110
2006	6	69	31	5	7	118
2007	5	61	18	9	8	101
2008	6	62	13	2	4	87
2009	8	75	18	3	2	106
2010	4	52	15	2	1	74
2011	4	67	14	5	2	93
2012	7	40	15	6	2	70
2013	4	37	13	4	7	66
2014	3	41	17	2	2	65
% change 2013-2014	-25.0	10.8	30.8	-50.0	-71.4	-1.5
Ave. trend change p.a. (%)	-4.5	-7.0	-5.0	-2.9	-12.6	-6.3
<b>17 – 25 years</b>						
2005	208	109	39	66	3	426
2006	224	114	24	69	4	435
2007	200	100	29	59	4	392
2008	180	99	34	60	3	377
2009	178	114	25	43	2	362
2010	169	80	34	49	4	336
2011	132	77	21	47	3	280
2012	140	73	24	43	3	284
2013	120	52	16	38	4	230
2014	110	58	20	40	3	233
% change 2013-2014	-8.3	11.5	25.0	5.3	-25.0	1.3
Ave. trend change p.a. (%)	-7.5	-8.1	-6.4	-6.4	-0.5	-7.3
<b>26 – 39 years</b>						
2005	226	45	41	91	9	414
2006	197	55	45	91	5	393
2007	220	56	39	86	11	412
2008	163	52	34	88	8	345
2009	181	50	42	77	5	355
2010	152	48	30	68	7	305
2011	131	54	32	55	3	275
2012	152	40	29	70	7	300
2013	111	35	21	64	11	243
2014	123	39	23	58	8	252
% change 2013-2014	10.8	11.4	9.5	-9.4	-27.3	3.7
Ave. trend change p.a. (%)	-7.1	-3.6	-7.3	-5.4	-0.2	-6.0

**Table 1.3 Deaths by road user and age group (continued)**

	<i>Drivers</i>	<i>Passengers</i>	<i>Pedestrians</i>	<i>Motor-cyclists</i>	<i>Pedal cyclists</i>	<i>All road users<sup>a</sup></i>
<b>40 – 64 years</b>						
2005	218	62	49	65	12	408
2006	213	66	58	70	17	424
2007	241	50	66	77	17	451
2008	204	50	45	88	7	395
2009	230	49	54	98	14	445
2010	213	44	48	95	18	418
2011	197	42	55	85	19	398
2012	199	48	46	95	12	400
2013	190	35	43	84	21	374
2014	173	49	44	79	17	362
% change 2013-2014	-8.9	40.0	2.3	-6.0	-19.0	-3.2
Ave. trend change p.a. (%)	-2.4	-4.4	-2.6	2.4	3.8	-1.6
<b>65 – 74 years</b>						
2005	65	17	23	3	4	112
2006	55	12	25	2	4	98
2007	52	30	15	3	1	101
2008	43	15	21	6	1	86
2009	47	19	20	2	6	94
2010	40	26	15	10	6	97
2011	41	14	18	6	4	83
2012	41	23	19	8	5	96
2013	54	18	22	17	6	118
2014	66	12	13	9	11	111
% change 2013-2014	22.2	-33.3	-40.9	-47.1	83.3	-5.9
Ave. trend change p.a. (%)	-0.9	-0.9	-3.3	20.9	15.8	0.5
<b>≥ 75 years</b>						
2005	53	38	53	5	5	154
2006	62	20	44	1	2	129
2007	67	38	37	3	0	145
2008	74	25	42	1	5	147
2009	63	26	37	1	2	129
2010	58	33	28	0	2	122
2011	63	32	46	4	3	148
2012	71	35	37	1	4	149
2013	78	27	43	6	1	156
2014	59	28	35	4	4	130
% change 2013-2014	-24.4	3.7	-18.6	-33.3	300.0	-16.7
Ave. trend change p.a. (%)	1.4	0.0	-2.3	-	-	-0.1

a Drivers, passengers, pedestrians, motorcyclists, pedal cyclists and those with unstated or unknown road user type.  
Source Australian Road Deaths Database

**Figure 1.3 Deaths by age group**

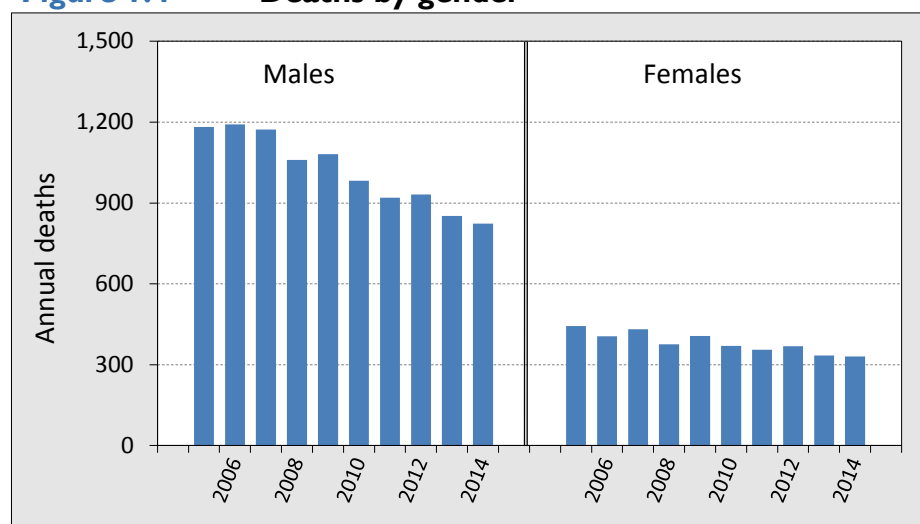


Source Australian Road Deaths Database

**Table 1.4** Deaths by gender and road user

	<i>Drivers</i>	<i>Passengers</i>	<i>Pedestrians</i>	<i>Motor-cyclists</i>	<i>Pedal cyclists</i>	<i>All road users<sup>a</sup></i>
<b>Males</b>						
2005	597	179	146	224	32	1,182
2006	583	196	151	226	35	1,191
2007	616	178	120	221	37	1,172
2008	495	177	133	227	26	1,060
2009	521	182	138	214	26	1,081
2010	470	154	117	207	34	982
2011	422	158	125	187	28	920
2012	459	124	114	203	30	931
2013	393	101	113	200	41	852
2014	391	109	104	179	38	824
% change 2013-2014	-0.5	7.9	-8.0	-10.5	-7.3	-3.3
Ave. trend change p.a. (%)	-5.1	-6.7	-3.4	-2.3	1.3	-4.3
<b>Females</b>						
2005	178	166	80	9	9	443
2006	173	139	77	12	4	405
2007	169	158	84	16	4	431
2008	175	125	56	18	2	376
2009	186	148	58	10	5	407
2010	166	129	53	17	4	370
2011	146	126	61	15	6	355
2012	151	136	56	20	3	369
2013	164	102	45	13	9	334
2014	144	119	48	13	7	331
% change 2013-2014	-12.2	16.7	6.7	0.0	-22.2	-0.9
Ave. trend change p.a. (%)	-2.1	-3.6	-6.0	3.1	3.1	-3.0

a Drivers, passengers, pedestrians, motorcyclists, pedal cyclists and those with unstated or unknown road user type.  
Source Australian Road Deaths Database

**Figure 1.4** Deaths by gender

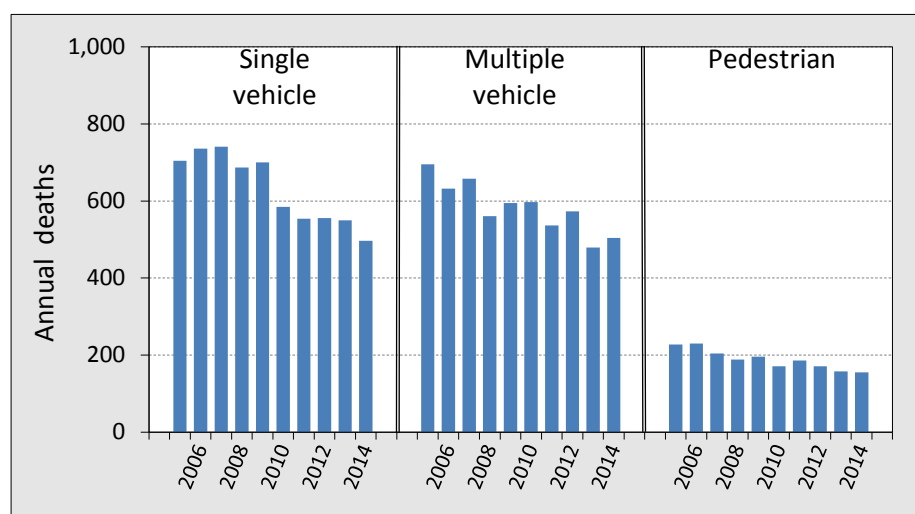
Source Australian Road Deaths Database

**Table I.5 Deaths by crash type<sup>a</sup>**

	<i>Single vehicle crash</i>	<i>Multiple vehicle crash</i>	<i>Pedestrian crash</i>	<i>Total</i>
2005	704	695	228	1,627
2006	736	632	230	1,598
2007	741	658	204	1,603
2008	687	561	189	1,437
2009	700	595	196	1,491
2010	585	597	171	1,353
2011	554	537	186	1,277
2012	556	573	171	1,300
2013	550	479	158	1,187
2014	497	504	155	1,156
% change 2013-2014	-9.6	5.2	-1.9	-2.6
Ave. trend change p.a. (%)	-4.4	-3.4	-4.3	-4.0

a A crash in which a pedestrian dies is classified as a pedestrian crash. All other crashes are classified by whether there are one or more moving vehicles involved.

Source Australian Road Deaths Database

**Figure I.5 Deaths by crash type<sup>a</sup>**

a A crash in which a pedestrian dies is classified as a pedestrian crash. All other crashes are classified by whether there are one or more moving vehicles involved.

Source Australian Road Deaths Database

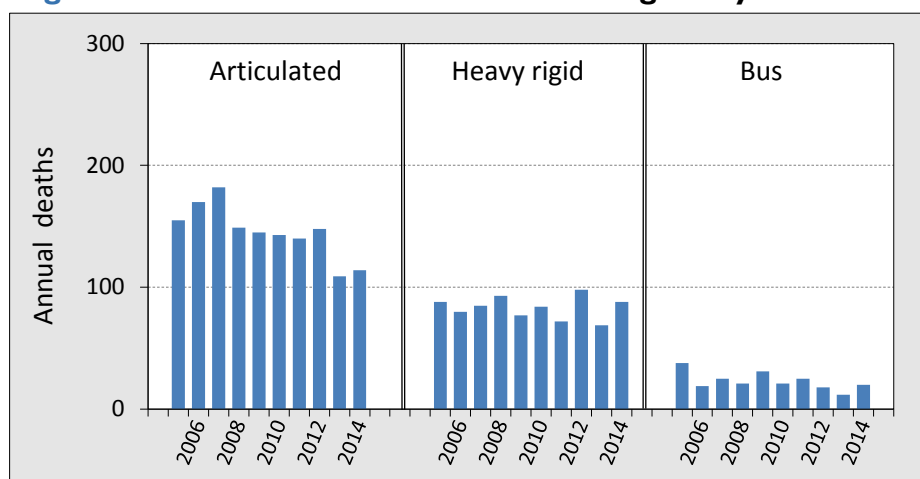


**Table 1.6** Deaths in crashes involving a heavy vehicle

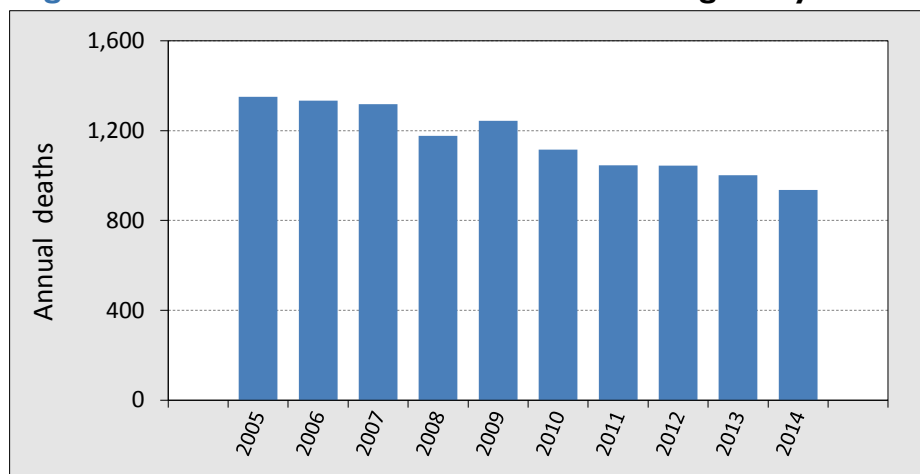
	<i>Articulated truck involved</i>	<i>Heavy rigid truck involved</i>	<i>Bus involved</i>	<i>No heavy vehicle involved</i>	<i>Total<sup>a</sup></i>
2005	155	88	38	1,351	1,627
2006	170	80	19	1,333	1,598
2007	182	85	25	1,318	1,603
2008	149	93	21	1,176	1,437
2009	145	77	31	1,244	1,491
2010	143	84	21	1,115	1,353
2011	140	72	25	1,045	1,277
2012	148	98	18	1,044	1,300
2013	109	69	12	1,001	1,187
2014	114	88	20	936	1,156
% change 2013-2014	4.6	27.5	66.7	-6.5	-2.6
Ave. trend change p.a.(%)	-4.2	-0.6	-6.2	-4.1	-4.0

a Columns do not sum to total as some crashes involve more than one type of heavy vehicle.

Sources Australian Road Deaths Database; BITRE 2015

**Figure 1.6** Deaths in crashes involving heavy vehicles

Source Australian Road Deaths Database

**Figure 1.7** Deaths in crashes not involving heavy vehicles

Source Australian Road Deaths Database

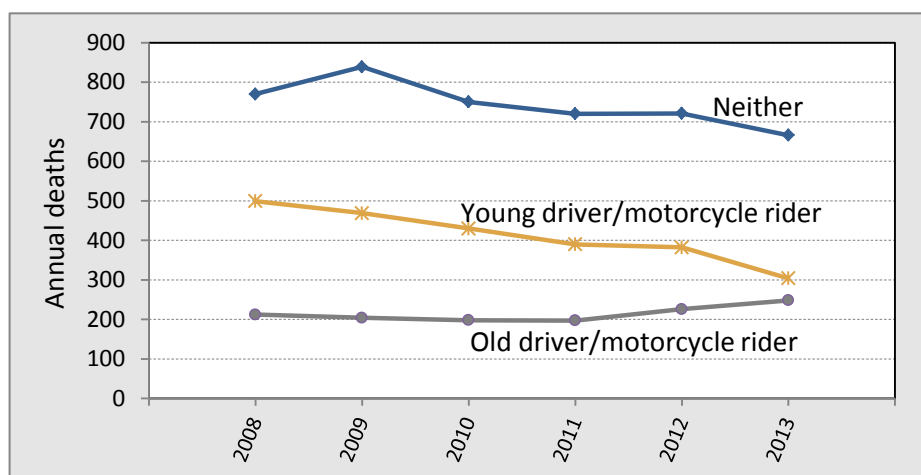
**Table 1.7** Deaths in crashes involving younger or older drivers/motorcycle riders

	<i>Involving young driver/motorcycle rider</i>	<i>Involving older driver/motorcycle rider</i>	<i>Neither</i>	<i>Total<sup>a</sup></i>
<b>Vehicle operator</b>				
2008	499	212	770	1,437
2009	469	204	839	1,488
2010	430	198	750	1,352
2011	390	197	720	1,278
2012	382	226	721	1,301
2013	304	248	666	1,185

See glossary for definitions.

a Categories are not mutually exclusive.

Source National Crash Database

**Figure 1.8** Deaths in crashes involving younger or older drivers/motorcycle riders<sup>a</sup>

See glossary for definitions.

a Categories are not mutually exclusive.

Source National Crash Database

**Table 1.8** Deaths from common crash sub-types<sup>a</sup>

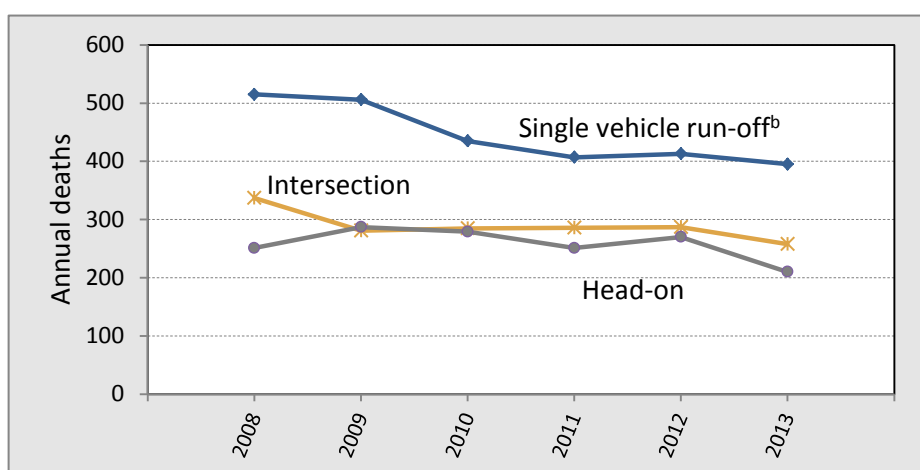
	<i>Intersection</i>	<i>Head-on</i>	<i>Single vehicle run-off road<sup>b</sup></i>	<i>Total<sup>c</sup></i>
<b>Crash sub-types</b>				
2008	337	251	515	1,437
2009	281	287	506	1,488
2010	285	279	435	1,352
2011	286	251	407	1,278
2012	287	270	413	1,301
2013	258	210	395	1,185

a Categories not mutually exclusive, nor exhaustive.

b Single vehicle run-off road excludes South Australia.

c Includes all other crash types.

Source National Crash Database

**Figure 1.9** Deaths from common crash sub-types<sup>a</sup>

a Categories not mutually exclusive, nor exhaustive.

b Single vehicle run-off road excludes South Australia.

Source National Crash Database

**Table 1.9 Hospitalised injuries—by road user and age group**

	<i>Drivers</i>	<i>Passengers</i>	<i>Pedestrians</i>	<i>Motor-cyclists</i>	<i>Pedal cyclists</i>	<i>All road users<sup>a</sup></i>
<b>All ages</b>						
2008	10,525	5,122	2,737	7,987	5,096	33,524
2009	10,538	5,344	2,770	8,039	5,255	33,692
2010	10,713	5,041	2,833	7,373	5,239	32,775
2011	11,601	5,175	2,760	7,571	5,393	34,082
2012 <sup>b</sup>	11,424	5,067	2,689	7,734	5,623	34,091
% change 2010-2011	8.3	2.7	-2.6	2.7	2.9	4.0
Ave. trend change p.a. (%)	3.1	-0.3	0.5	-2.4	1.7	0.2
<b>0 – 16 years</b>						
2008	91	987	443	804	1,736	4,255
2009	120	1,035	498	685	1,431	3,924
2010	113	933	488	544	1,205	3,401
2011	73	938	537	501	1,065	3,240
2012 <sup>b</sup>	62	909	457	525	1,030	3,077
% change 2010-2011	-35.4	0.5	10.0	-7.9	-11.6	-4.7
Ave. trend change p.a. (%)	-7.0	-2.5	5.7	-15.2	-15.1	-9.2
<b>17 – 25 years</b>						
2008	2,944	1,578	607	2,182	620	8,466
2009	2,823	1,642	534	2,090	691	8,229
2010	2,779	1,545	546	1,881	725	7,852
2011	2,988	1,511	532	2,043	668	8,098
2012 <sup>b</sup>	2,898	1,440	502	2,078	731	8,037
% change 2010-2011	7.5	-2.2	-2.6	8.6	-7.9	3.1
Ave. trend change p.a. (%)	0.3	-1.9	-3.7	-3.0	2.8	-1.8
<b>26 – 39 years</b>						
2008	2,758	899	510	2,488	1,092	8,221
2009	2,725	939	543	2,519	1,149	8,297
2010	2,783	841	535	2,267	1,217	8,016
2011	2,962	871	468	2,175	1,314	8,172
2012 <sup>b</sup>	2,911	940	514	2,240	1,317	8,252
% change 2010-2011	6.4	3.6	-12.5	-4.1	8.0	1.9
Ave. trend change p.a. (%)	2.4	-2.0	-2.7	-5.0	6.3	-0.5

**Table 1.9 Hospitalised injuries—by road user and age group (continued)**

	<i>Drivers</i>	<i>Passengers</i>	<i>Pedestrians</i>	<i>Motor-cyclists</i>	<i>Pedal cyclists</i>	<i>All road users<sup>a</sup></i>
<b>40 – 64 years</b>						
2008	3,360	943	651	2,341	1,419	9,315
2009	3,420	1,010	635	2,576	1,723	9,854
2010	3,421	988	726	2,491	1,780	9,884
2011	3,824	1,047	632	2,017	2,017	10,667
2012 <sup>b</sup>	3,713	995	643	2,680	2,157	10,671
% change 2010-2011	11.8	6.0	-12.9	-19.0	13.3	7.9
Ave. trend change p.a. (%)	4.0	3.0	0.5	-4.7	11.5	4.2
<b>65 years plus</b>						
2008	1,372	715	526	172	229	3,267
2009	1,450	718	560	169	261	3,388
2010	1,617	734	538	190	312	3,622
2011	1,734	775	591	205	329	3,905
2012 <sup>b</sup>	1,840	783	573	211	388	4,054
% change 2010-2011	7.2	5.6	9.9	7.9	5.4	7.8
Ave. trend change p.a. (%)	8.5	2.7	3.1	6.6	13.5	6.2

a Drivers, passengers, pedestrians, motorcyclists, pedal cyclists and those with unstated or unknown road user type.

b 2012 calendar year data is not directly comparable with previous years due to a break in the hospitalised injury series in 2012. A large jurisdiction changed case inclusion criteria to exclude cases cared for solely in Emergency Departments from 1 July 2012. NISU estimates this decreased admitted case counts in Australia by 2000 cases (-5.6 per cent) in 2012-13 compared to 2011-12. The estimated decrease in 2012 was approximately 1000 cases, or -2.8 per cent, with the reduction likely to differ by road user group.

Sources National Injury Surveillance Unit, unpublished, hospitalised injury series.

**Table 1.10 Hospitalised injuries—by remoteness area<sup>a</sup> of residence**

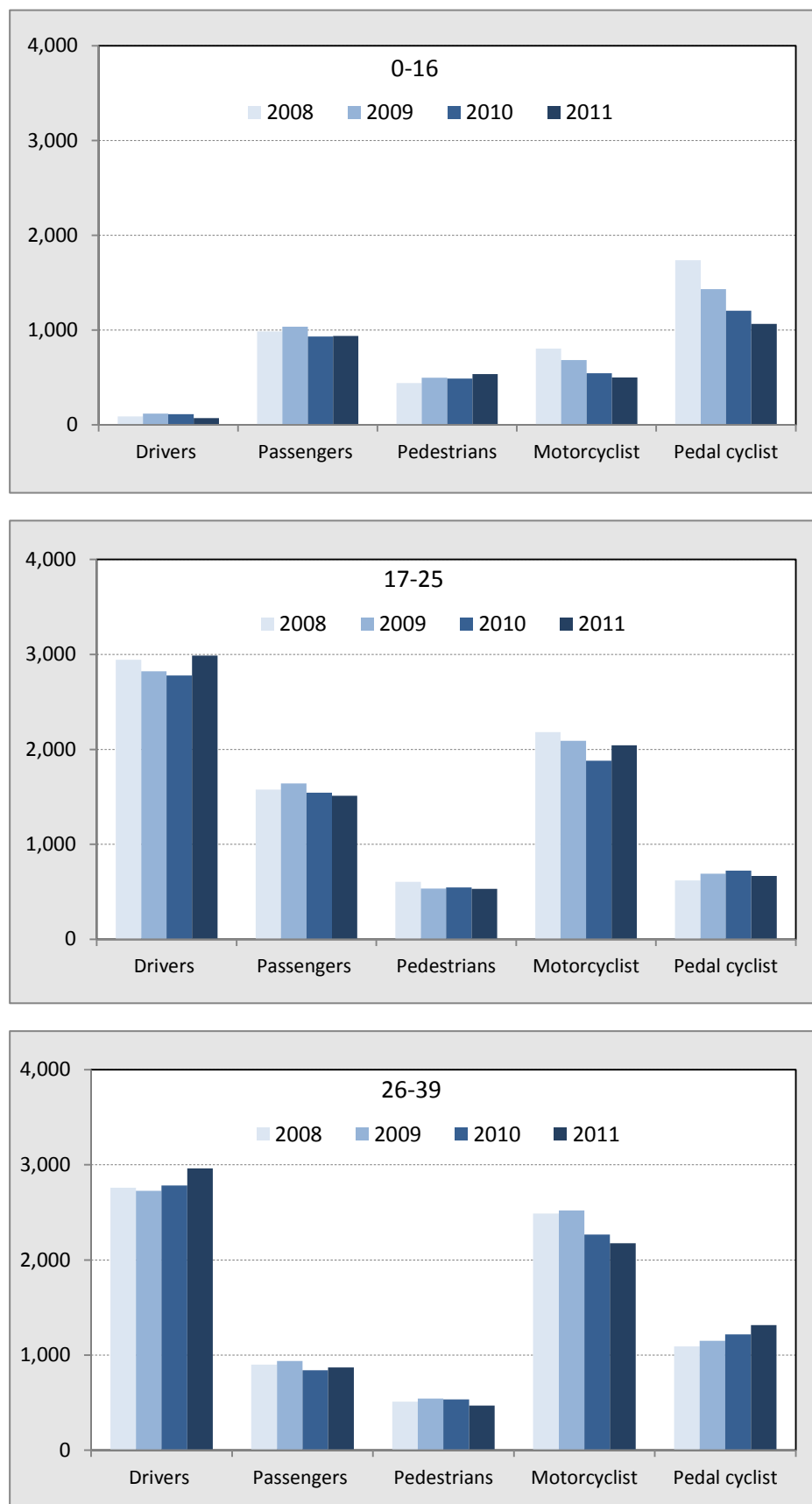
	<i>Major cities</i>	<i>Inner regional</i>	<i>Outer regional</i>	<i>Remote</i>	<i>Very remote</i>	<i>Total<sup>b</sup></i>
<b>ASGC remoteness area of residence</b>						
2008	20,185	7,470	4,023	825	508	33,524
2009	20,521	7,252	3,929	818	524	33,692
2010	20,813	6,628	3,521	734	486	32,775
2011	21,898	6,911	3,575	691	461	34,082
% change 2010-2011	5.2	4.3	1.5	-5.9	-5.1	4.0
Ave. trend change p.a. (%)	2.6	-3.2	-4.5	-6.2	-3.6	0.2

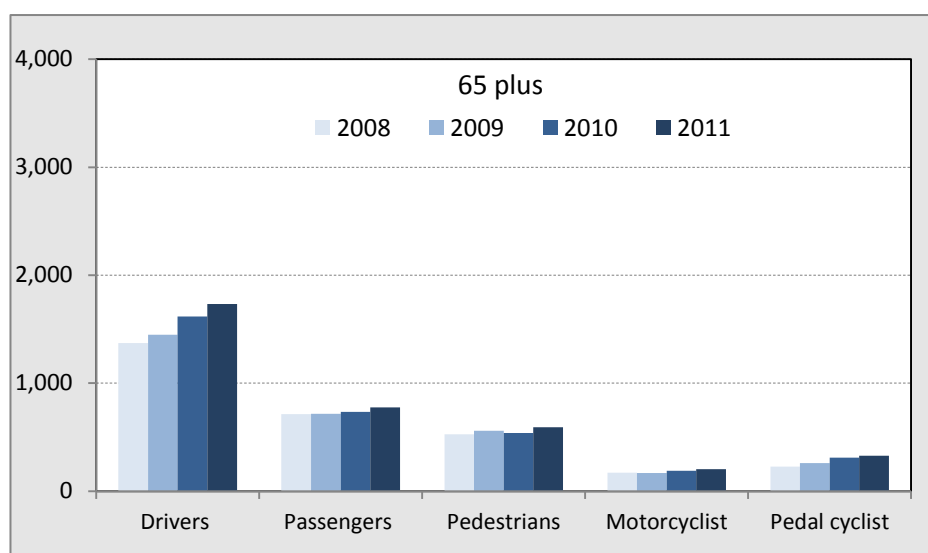
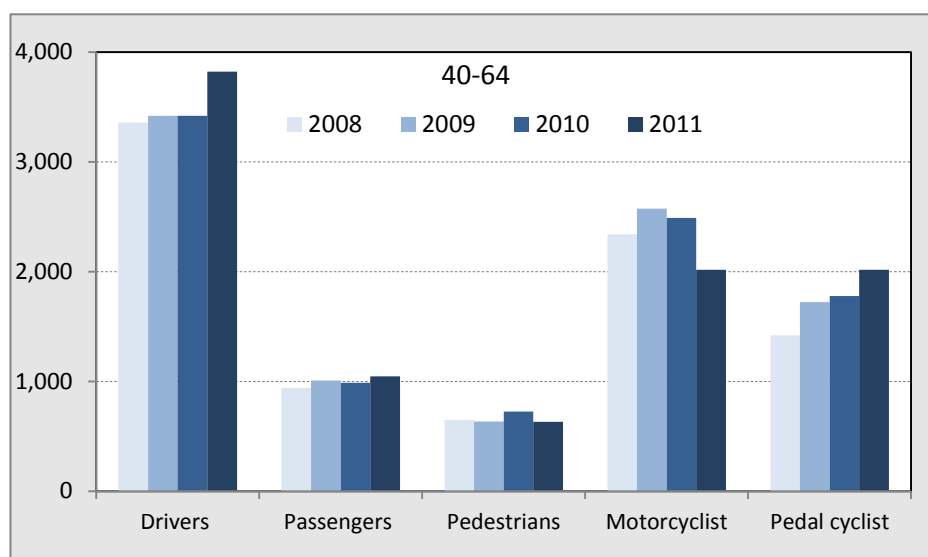
a For an ASGS Remoteness Areas 2011 map, please refer to page 41.

b Includes cases for which the ASGC remoteness area of residence is not reported.

Sources National Injury Surveillance Unit, unpublished, hospitalised injury series.

**Figure 1.10 Hospitalised injuries—by road user and age group**



**Figure 1.10** Hospitalised injuries—by road user and age group (continued)

note 2012 calendar year data is not directly comparable with previous years due to a break in the hospitalised injury series in 2012. See note on Table 1.9, p. 17.

Sources National Injury Surveillance Unit, unpublished, hospitalised injury series.



**Table 1.11 Hospitalised injuries—by counterpart**

	Counterpart in collision								Total <sup>b</sup>
	Car, pick-up truck	2- or 3-wheeled motor vehicle	Pedal cycle	Pedestrian or animal	Heavy transport vehicle or bus	Train	Fixed or stationary object	Non-collision transport accident <sup>a</sup>	
<b>Injured person</b>									
<b>Vehicle occupant<sup>c</sup></b>									
2008	7,414	25	5	147	701	22	4,118	3,286	16,840
2009	7,370	34	9	151	681	18	4,246	3,394	16,886
2010	7,776	32	3	111	713	8	3,997	3,146	16,790
2011	8,538	30	0	141	816	29	4,010	3,244	17,746
% change 2010-2011	9.8	-6.3	-	27.0	14.4	262.5	0.3	3.1	5.7
Ave. trend change p.a. (%)	4.9	5.0	-	-4.2	5.1	0.2	-1.4	-1.1	1.5
<b>Motorcyclist</b>									
2008	1,824	154	6	140	84	1	711	2,893	7,987
2009	1,775	173	5	148	77	3	732	3,193	8,039
2010	1,651	111	8	128	71	0	670	3,051	7,373
2011	1,812	135	8	140	89	np	654	3,046	7,571
% change 2010-2011	9.8	21.6	0.0	9.4	25.4	-	-2.4	-0.2	2.7
Ave. trend change p.a. (%)	-0.9	-8.0	14.3	-1.4	0.9	-	-3.3	1.1	-2.4
<b>Pedal cyclist</b>									
2008	1,080	10	169	18	64	5	224	1,912	5,096
2009	1,162	13	233	42	62	2	258	2,175	5,255
2010	1,189	5	242	40	55	2	252	2,308	5,239
2011	1,240	16	235	41	53	np	274	2,354	5,393
% change 2010-2011	4.3	220.0	-2.9	2.5	-3.6	-	8.7	2.0	2.9
Ave. trend change p.a. (%)	4.5	4.6	10.8	27.4	-6.6	-	6.0	7.1	1.7
<b>Pedestrian</b>									
2008	2,371	51	45	6	113	13	0	0	2,737
2009	2,419	58	35	9	140	19	0	0	2,770
2010	2,482	53	46	7	120	24	0	0	2,833
2011	2,441	64	34	13	114	12	0	0	2,760
% change 2010-2011	-1.7	20.8	-26.1	85.7	-5.0	-50.0	-	-	-2.6
Ave. trend change p.a. (%)	1.1	6.1	-5.5	23.0	-1.3	-0.1	-	-	0.5

**Table I.11 Hospitalised injuries—by counterpart (continued)**

	Counterpart in collision								Total <sup>b</sup>
	Car, pick-up truck	2- or 3-wheeled motor vehicle	Pedal cycle	Pedestrian or animal	Heavy transport vehicle or bus	Train	Fixed or stationary object	Non-collision transport accident <sup>a</sup>	
<b>Injured person</b>									
<b>Other<sup>d</sup></b>									
2008	7	1	0	0	0	0	1	5	140
2009	3	0	0	0	0	0	0	8	93
2010	7	1	1	0	0	1	1	4	90
2011	9	0	0	0	0	0	0	9	93
% change 2010-2011	28.6	-100.0	-	-	-	-	-100.0	125.0	3.3
Ave. trend change p.a. (%)	17.4	-	-	-	-	-	-	11.3	-11.8
<b>Unknown</b>									
2008	0	0	0	0	0	0	0	83	724
2009	0	0	0	0	0	0	0	93	649
2010	0	0	0	0	0	0	0	91	450
2011	0	0	0	0	0	0	0	129	512
% change 2010-2011	-	-	-	-	-	-	-	-	-
Ave. trend change p.a. (%)	-	-	-	-	-	-	-	-	-
<b>Total</b>									
2008	12,696	241	225	311	962	41	5,054	8,179	33,524
2009	12,729	278	282	350	960	42	5,236	8,863	33,692
2010	13,105	202	300	286	959	35	4,920	8,600	32,775
2011	14,040	246	280	342	1,072	44	4,939	8,782	34,082
% change 2010-2011	7.1	21.8	-6.7	19.6	11.8	25.7	0.4	2.1	4.0
Ave. trend change p.a. (%)	3.4	-2.5	7.4	0.8	3.3	0.3	-1.3	1.8	0.2

a Includes non-collision accidents such as overturning, falling or being thrown from a vehicle.

b Total includes cases where the counterpart is 'other non-motor vehicle' or unspecified.

c 'Vehicle occupant' includes occupants of cars, pick-up trucks/vans, heavy transport vehicles or buses.

d 'Other' includes occupants of special all-terrain vehicles, three-wheeled motor vehicles, trams/trains, agricultural or construction vehicles or animal drawn vehicles.

np Not published.

Sources National Injury Surveillance Unit, unpublished, hospitalised injury series.

**Table 1.12** Hospitalised injuries and high threat to life

	<i>Hospitalised injury</i>	<i>High threat to life</i>	
		<i>Counts</i>	<i>Proportion</i>
2008	33,524	8,543	25.5
2009	33,692	8,895	26.4
2010	32,775	8,456	25.8
2011	34,082	8,925	26.2

Sources National Injury Surveillance Unit, unpublished, hospitalised injury series.

**Table 1.13** Hospitalised injuries and high threat to life—by road user

	<i>Vehicle occupants</i>		<i>Motor cyclists</i>		<i>Pedal cyclists</i>		<i>Pedestrian</i>	
	<i>Hospitalised injury</i>	<i>High threat to life</i>	<i>Hospitalised injury</i>	<i>High threat to life</i>	<i>Hospitalised injury</i>	<i>High threat to life</i>	<i>Hospitalised injury</i>	<i>High threat to life</i>
2008	16,840	4,625	7,987	1,905	5,096	889	2,737	963
2009	16,886	4,827	8,039	1,943	5,255	1,031	2,770	978
2010	16,790	4,457	7,373	1,814	5,239	1,098	2,833	990
2011	17,746	4,799	7,571	1,886	5,393	1,144	2,760	980

Sources National Injury Surveillance Unit, unpublished, hospitalised injury series.

## CHAPTER 2      Casualty rates

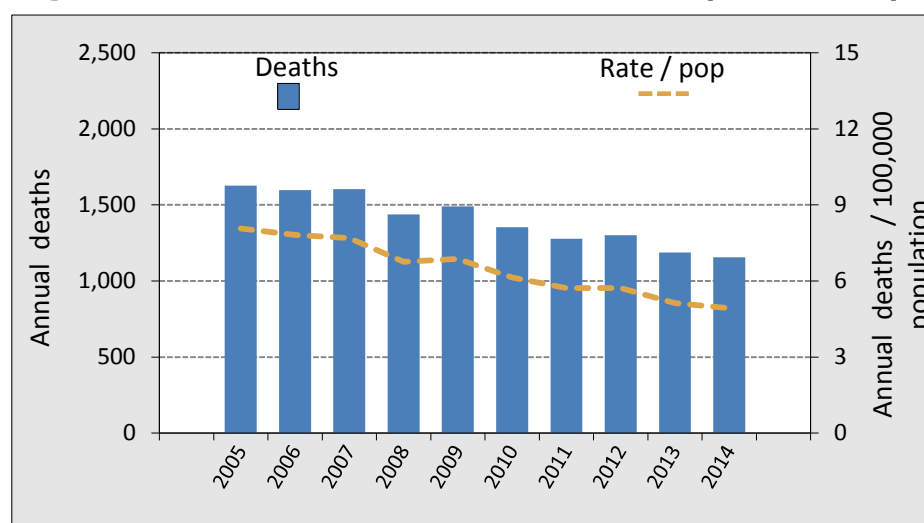
This section presents rates for fatalities and hospitalised injuries standardised by population, vehicle-kilometres-travelled (VKT) and vehicle registrations. Included are comparisons for jurisdictions, age groups and gender. In general, rates are composed of fatalities during the calendar year divided by the exposure measure at the mid-point.

- Currently the number of annual deaths per 100,000 population is 4.92— the lowest national figure on record. Over the last decade this rate declined by a total of 39.0 per cent, equating to an estimated trend reduction of 5.6 per cent per year (Table 2.1, p 24).
- The largest reductions in the population rate were achieved in Tasmania, Queensland, New South Wales and the Australian Capital Territory. Smaller but significant reductions were achieved in all other jurisdictions (Table 2.1, p 24 and Figure 2.2, p 25).
- Analysis by age group shows that improvement occurred for all the age groups presented, but was the greatest for younger road users. For those aged 17-25 years, the rate per 100,000 population over the decade decreased by 53 per cent. However this rate per 100,000 population remains above the national average (Table 2.2, p 26).
- The annual rate per VKT over the decade has declined by 36 per cent, similar to the decline in the population rate. All jurisdictions achieved reductions (Table 2.3, p 27).
- Per registered vehicle, the rates have declined by approximately 50 per cent over the decade (Tables 2.4 and 2.5, p 28).
- Population rates for annual hospitalised injuries are available for the decade to 2011. During this time, annual hospitalised injuries per 100,000 population increased by 6.4 per cent to 152.6. This is 27 times the rate for fatalities (Table 2.6, p 29).

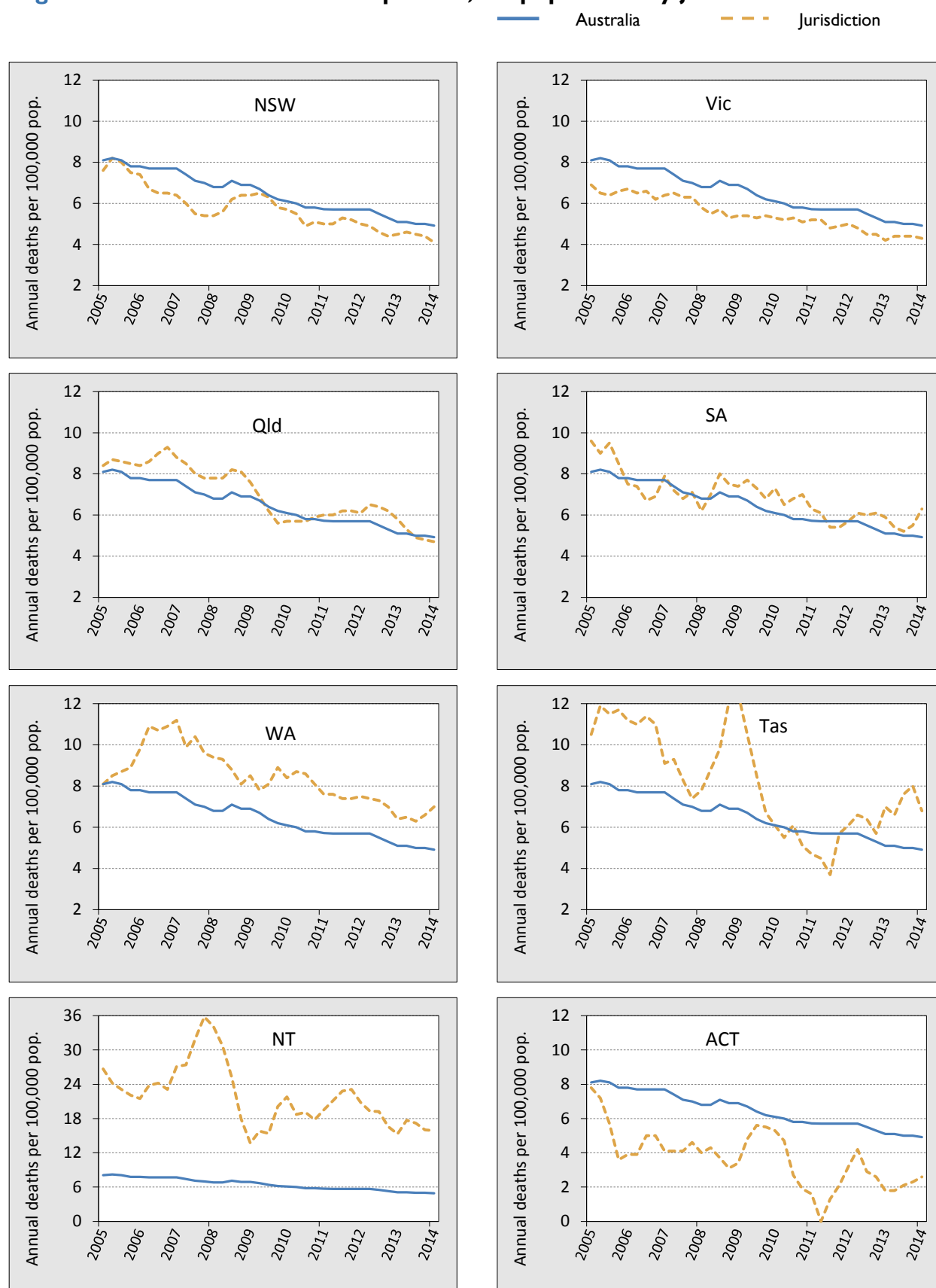
**Table 2.1** Annual fatalities per 100,000 population by jurisdiction

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2005	7.59	6.93	8.42	9.62	8.10	10.49	26.71	7.85	8.06
2006	7.36	6.66	8.36	7.54	9.75	11.24	21.53	3.88	7.81
2007	6.37	6.44	8.76	7.89	11.16	9.12	27.13	4.09	7.70
2008	5.39	5.76	7.77	6.23	9.44	7.82	34.11	4.02	6.76
2009	6.44	5.40	7.65	7.40	8.53	12.49	13.72	3.38	6.87
2010	5.67	5.27	5.65	7.25	8.42	6.09	21.76	5.25	6.14
2011	5.04	5.18	6.01	6.28	7.61	4.69	19.46	1.63	5.72
2012	5.05	5.01	6.13	5.68	7.51	6.05	20.77	3.20	5.72
2013	4.49	4.24	5.83	5.87	6.43	7.02	15.26	1.84	5.13
2014	4.15	4.26	4.72	6.35	7.03	6.80	15.91	2.59	4.92
% change 2013-2014	-7.7	0.6	-18.9	8.2	9.4	-3.1	4.3	41.1	-4.1
Ave. trend change p.a. (%)	-6.1	-5.4	-6.2	-4.2	-4.1	-6.7	-5.7	-10.7	-5.6

Sources Australian Road Deaths Database; Australian Bureau of Statistics 2014

**Figure 2.1** Annual fatalities and fatalities per 100,000 population

Source Australian Road Deaths Database

**Figure 2.2** Annual fatalities per 100,000 population by jurisdiction

Source Australian Road Deaths Database

**Table 2.2 Annual fatalities per 100,000 population by gender and age group**

	<i>0-16 years</i>	<i>17-25 years</i>	<i>26-39 years</i>	<i>40-64 years</i>	<i>65-74 years</i>	<i>≥ 75 years</i>	<i>All deaths<sup>a</sup></i>
<b>Males</b>							
2005	2.7	26.0	16.4	9.4	10.0	16.3	11.8
2006	2.9	26.2	16.3	9.1	10.0	16.0	11.7
2007	2.4	22.9	16.0	9.8	8.8	16.3	11.3
2008	2.3	21.4	13.1	8.6	6.6	16.0	10.0
2009	2.3	19.2	13.0	9.2	8.3	14.9	10.0
2010	2.0	17.8	10.6	8.9	7.7	11.9	9.0
2011	2.2	14.5	9.7	8.4	6.1	15.6	8.3
2012	1.4	14.6	10.6	8.1	6.9	14.7	8.2
2013	1.5	11.6	8.0	7.8	8.9	14.8	7.4
2014	1.2	12.0	8.2	7.5	7.6	11.1	7.0
% change 2013-2014	-17.1	3.1	2.6	-4.5	-14.4	-25.4	-4.8
Ave. trend change p.a. (%)	-8.5	-9.3	-8.4	-2.5	-2.8	-2.9	-6.0
<b>Females</b>							
2005	2.0	7.5	4.1	3.2	6.4	9.8	4.4
2006	2.2	7.4	3.0	3.8	4.2	6.1	3.9
2007	2.0	6.5	3.9	3.7	5.3	7.6	4.1
2008	1.3	5.9	3.2	3.0	5.0	7.7	3.5
2009	2.0	6.2	3.3	3.6	3.9	5.8	3.7
2010	1.0	5.7	3.2	3.0	4.4	6.7	3.3
2011	1.5	5.1	2.7	2.8	3.8	6.8	3.2
2012	1.4	5.1	2.7	2.9	3.9	7.2	3.2
2013	1.2	4.2	2.6	2.4	3.8	7.4	2.9
2014	1.4	3.9	2.6	2.3	3.9	6.7	2.8
% change 2013-2014	16.6	-7.6	-0.1	-3.4	1.3	-9.9	-2.4
Ave. trend change p.a. (%)	-5.9	-6.8	-4.4	-4.7	-4.4	-1.5	-4.6
<b>Persons<sup>a</sup></b>							
2005	2.4	16.9	10.2	6.3	8.2	12.4	8.1
2006	2.6	17.0	9.6	6.4	7.0	10.2	7.8
2007	2.2	14.9	9.9	6.7	7.0	11.2	7.7
2008	1.9	13.9	8.1	5.8	5.8	11.1	6.8
2009	2.2	12.9	8.2	6.4	6.1	9.6	6.9
2010	1.6	11.9	6.9	5.9	6.0	8.9	6.1
2011	1.9	9.9	6.2	5.5	4.9	10.5	5.7
2012	1.4	10.0	6.7	5.5	5.4	10.4	5.7
2013	1.3	8.0	5.3	5.1	6.3	10.6	5.1
2014	1.3	8.0	5.4	4.9	5.7	8.6	4.9
% change 2013-2014	-2.6	0.3	1.9	-4.3	-9.6	-19.0	-4.1
Ave. trend change p.a. (%)	-7.3	-8.7	-7.5	-3.1	-3.4	-2.2	-5.6

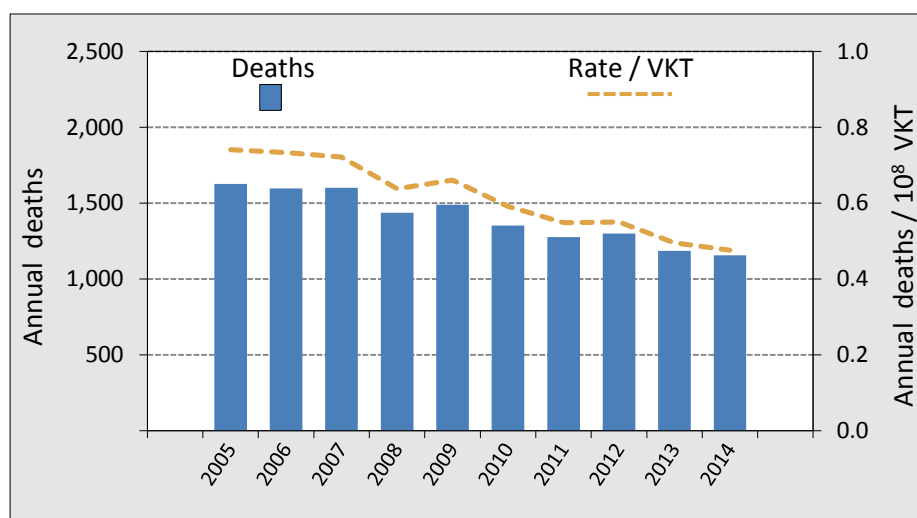
a Includes those with unknown or unstated gender.  
Source Australian Road Deaths Database



**Table 2.3** Annual fatalities per 100 million vehicle–kilometres–travelled (VKT)

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas</i>	<i>NT</i>	<i>ACT</i>	<i>Australia</i>
2005	0.76	0.61	0.73	0.92	0.69	0.99	2.95	0.74	0.74
2006	0.75	0.60	0.73	0.74	0.85	1.07	2.42	0.37	0.73
2007	0.65	0.59	0.77	0.77	0.98	0.86	3.01	0.39	0.72
2008	0.55	0.53	0.68	0.62	0.84	0.74	3.77	0.39	0.64
2009	0.67	0.51	0.69	0.75	0.76	1.20	1.52	0.33	0.66
2010	0.59	0.49	0.51	0.73	0.76	0.59	2.44	0.52	0.59
2011	0.52	0.48	0.55	0.64	0.70	0.46	2.18	0.16	0.55
2012	0.52	0.46	0.56	0.58	0.69	0.58	2.36	0.32	0.55
2013	0.46	0.39	0.53	0.60	0.60	0.68	1.75	0.18	0.50
2014	0.43	0.40	0.43	0.64	0.67	0.66	1.82	0.26	0.48
% change 2013-2014	-7.2	0.9	-18.6	7.4	10.2	-2.9	3.8	41.0	-3.8
Ave. trend change p.a. (%)	-5.8	-4.9	-5.6	-3.6	-3.0	-6.4	-5.3	-10.2	-5.1

Source Australian Road Deaths Database

**Figure 2.3** Annual fatalities and fatalities per 100 million VKT

Source Australian Road Deaths Database

**Table 2.4** Annual vehicle occupant fatalities per 10,000 registered motor vehicles<sup>a</sup> by jurisdiction

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Deaths of a vehicle occupant per 10 000 registered motor vehicles</b>									
2005	0.83	0.68	0.83	1.04	0.82	1.09	3.76	0.57	0.83
2006	0.85	0.60	0.80	0.72	0.94	1.27	2.37	0.32	0.79
2007	0.69	0.65	0.81	0.86	1.09	0.87	3.70	0.44	0.79
2008	0.60	0.51	0.72	0.61	0.88	0.80	4.07	0.30	0.66
2009	0.71	0.51	0.71	0.79	0.78	1.30	1.87	0.34	0.69
2010	0.61	0.49	0.51	0.68	0.78	0.54	2.96	0.50	0.60
2011	0.55	0.45	0.56	0.51	0.68	0.40	2.67	0.12	0.55
2012	0.53	0.48	0.55	0.54	0.66	0.46	2.30	0.16	0.54
2013	0.43	0.38	0.56	0.54	0.50	0.43	1.41	0.15	0.46
2014	0.41	0.38	0.45	0.59	0.56	0.69	1.45	0.23	0.45
% change 2013-2014	-4.6	-0.4	-19.8	9.6	12.7	59.2	2.6	46.9	-2.1
Ave. trend change p.a. (%)	-7.5	-6.1	-6.5	-5.9	-6.6	-10.2	-8.9	-12.0	-6.9

a Includes cars, trucks, LVCs and buses.

Sources Australian Road Deaths Database; Australian Bureau of Statistics 2014

**Table 2.5** Annual fatalities of motorcyclists per 10,000 registered motorcycles by jurisdiction

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Deaths of motorcyclists<sup>a</sup> per 10 000 registered motorcycles</b>									
2005	5.66	4.46	6.57	6.19	3.96	7.40	5.89	10.83	5.52
2006	5.40	4.11	5.25	6.51	5.19	4.77	15.19	3.74	5.14
2007	4.57	3.63	5.81	2.17	5.44	6.26	6.87	3.28	4.63
2008	3.71	3.16	5.17	4.30	4.67	6.51	20.28	3.94	4.32
2009	4.24	2.57	3.96	3.36	3.56	5.96	1.82	1.76	3.59
2010	3.48	3.13	3.22	3.42	3.73	2.09	8.42	4.13	3.39
2011	2.82	3.05	2.87	4.40	2.82	1.99	3.41	2.47	2.98
2012	3.24	2.49	3.64	3.08	3.17	3.04	6.55	2.34	3.14
2013	3.55	2.42	2.59	2.37	2.20	6.30	9.04	1.53	2.86
2014	2.84	1.72	2.04	2.11	3.50	1.66	8.66	1.53	2.46
% change 2013-2014	-20.0	-28.9	-21.4	-10.8	59.2	-73.6	-4.2	0.3	-14.0
Ave. trend change p.a. (%)	-6.9	-8.2	-11.3	-8.7	-6.6	-11.3	-2.5	-14.6	-8.4

a Includes motor cycle pillion passengers.

Sources Australian Road Deaths Database; Australian Bureau of Statistics 2014

**Table 2.6** Annual hospitalised injuries per 100,000 population, 100 million VKT and 10,000 registered motor vehicles

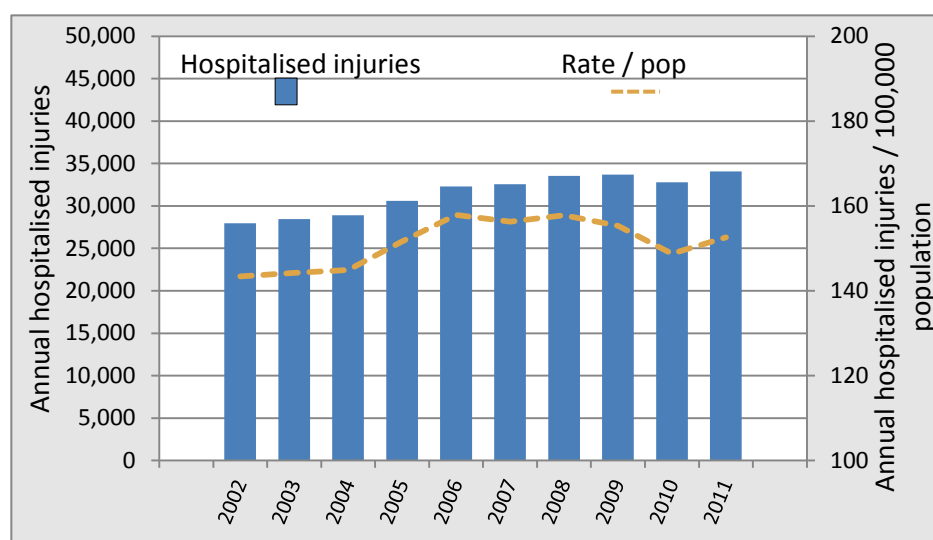
	<i>per 100,000 population<sup>a</sup></i>	<i>per 100 million VKT<sup>b</sup></i>	<i>per 10,000 registered motor vehicles</i>
2002	143.4	13.8	21.8
2003	144.2	13.6	21.6
2004	144.9	13.3	21.3
2005	151.6	13.9	22.0
2006	157.9	14.8	22.5
2007	156.3	14.7	22.0
2008	157.8	14.9	21.9
2009	155.3	14.9	21.5
2010	148.8	14.3	20.4
2011	152.6	14.7	20.8
% change 2010-2011	2.6	2.3	2.0
Ave. trend change p.a. (%)	0.7	1.0	-0.5

a Population is at June each year.

b VKT are for the 12 months ended June.

Sources National Injury Surveillance Unit, unpublished, hospitalised injury series.

**Figure 2.4** Annual hospitalised injuries and hospitalised injuries per 100,000 population<sup>a</sup>



a Population is at June each year.

Sources National Injury Surveillance Unit, unpublished, hospitalised injury series.

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## CHAPTER 3      Fatal crashes

This chapter presents annual counts of fatal crashes. Classifications include jurisdiction, crash type, road type, remoteness region, speed limit and time-of-day.

- Over the decade, counts for each type of fatal crash (single vehicle, multiple vehicle or pedestrian) declined by more than 25 per cent. Pedestrian crashes declined the fastest (Table 3.1, p 32).
- Fatal multiple-vehicle crashes are three times more likely to occur during the day (6am to 6pm) than during the night. Single-vehicle and pedestrian crashes are both distributed similarly between day and night (Table 3.2, p 34).
- More fatal crashes occur during a weekday compared to a weekend (Table 3.3, p 35). However when the proportions are weighted to account for the different lengths of the two periods, single-vehicle crashes are over-represented at the weekend.
- Approximately one third of all fatal crashes occur in posted speed zones of 100km/hour. The distributions of fatal crashes in the four speed zone groups presented have not changed over the decade (Table 3.6 p 38).
- In 2013, major cities accounted for 36 per cent of all fatal crashes (down from 40 per cent in 2008) (Table 3.8, p 40 and Figure 3.6, p 41).

**Table 3.1 Fatal crashes by jurisdiction and crash type<sup>a</sup>**

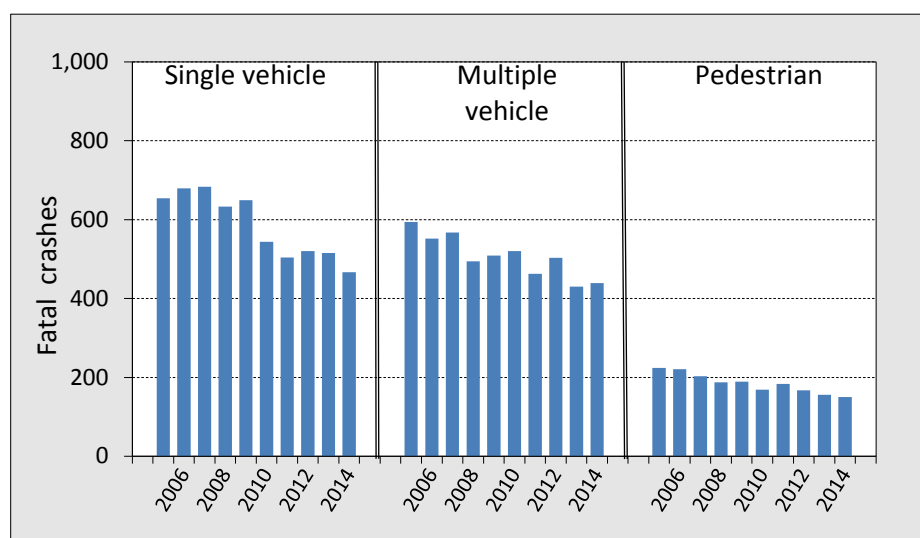
	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas</i>	<i>NT</i>	<i>ACT</i>	<i>Australia</i>
<b>All crashes</b>									
2005	459	314	296	127	151	49	51	25	1,472
2006	449	309	313	104	181	43	41	12	1,452
2007	405	289	338	107	214	39	47	14	1,453
2008	353	278	294	87	185	37	67	14	1,315
2009	409	268	296	104	176	52	31	11	1,347
2010	365	260	236	105	176	29	46	16	1,233
2011	336	259	227	95	167	23	38	6	1,151
2012	336	261	255	86	171	29	40	12	1,190
2013	316	225	246	90	149	35	33	7	1,101
2014	290	224	199	95	171	33	34	10	1,056
% change 2013-2014	-8.2	-0.4	-19.1	5.6	14.8	-5.7	3.0	42.9	-4.1
Ave. trend change p.a. (%)	-4.6	-3.6	-4.5	-2.7	-1.0	-5.0	-4.3	-8.7	-3.8
<b>Single vehicle crashes</b>									
2005	178	129	142	61	73	27	34	10	654
2006	206	136	149	49	100	17	17	5	679
2007	163	137	155	52	127	14	27	8	683
2008	163	115	143	40	101	24	42	5	633
2009	191	109	140	59	99	26	18	7	649
2010	145	101	110	47	95	11	32	3	544
2011	142	109	91	38	92	8	20	4	504
2012	136	111	108	40	90	10	20	5	520
2013	147	82	129	43	74	17	19	4	515
2014	118	80	100	40	93	15	17	4	467
% change 2013-2014	-19.7	-2.4	-22.5	-7.0	25.7	-11.8	-10.5	0.0	-9.3
Ave. trend change p.a. (%)	-4.5	-5.4	-4.5	-3.8	-1.2	-6.5	-5.1	-8.0	-4.3
<b>Multiple vehicle crashes</b>									
2005	185	137	117	54	62	20	9	10	594
2006	172	121	118	43	59	23	11	5	552
2007	174	111	141	40	67	21	8	5	567
2008	141	104	122	35	66	12	8	6	494
2009	159	109	119	36	55	23	6	2	509
2010	162	120	98	42	66	12	7	13	520
2011	145	102	103	40	50	11	10	2	463
2012	147	115	120	37	57	13	11	3	503
2013	125	107	96	34	45	15	6	2	430
2014	131	99	80	38	62	15	9	5	439
% change 2013-2014	4.8	-7.5	-16.7	11.8	37.8	0.0	50.0	150.0	2.1
Ave. trend change p.a. (%)	-3.6	-2.1	-3.8	-2.8	-2.0	-5.2	-1.1	-9.6	-3.1

**Table 3.1** Fatal crashes by jurisdiction and crash type<sup>a</sup> (continued)

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Pedestrian crashes</b>									
2005	96	48	37	12	16	2	8	5	224
2006	71	52	46	12	22	3	13	2	221
2007	68	41	42	15	20	4	12	1	203
2008	49	59	29	12	18	1	17	3	188
2009	59	50	37	9	22	3	7	2	189
2010	58	39	28	16	15	6	7	0	169
2011	49	48	33	17	25	4	8	0	184
2012	53	35	27	9	24	6	9	4	167
2013	44	36	21	13	30	3	8	1	156
2014	41	45	19	17	16	3	8	1	150
% change 2013-2014	-6.8	25.0	-9.5	30.8	-46.7	0.0	0.0	0.0	-3.8
Ave. trend change p.a. (%)	-7.2	-2.9	-7.9	1.7	2.3	6.6	-4.2	-	-4.3

a A crash in which a pedestrian dies is classified as a pedestrian crash. All other crashes are classified by whether there are one or more moving vehicles involved.

Source Australian Road Deaths Database

**Figure 3.1** Counts of fatal crashes by crash type<sup>a</sup>

a A crash in which a pedestrian dies is classified as a pedestrian crash. All other crashes are classified by whether there are one or more moving vehicles involved.

Source Australian Road Deaths Database

**Table 3.2** Fatal crashes by crash type<sup>a</sup> and time of day

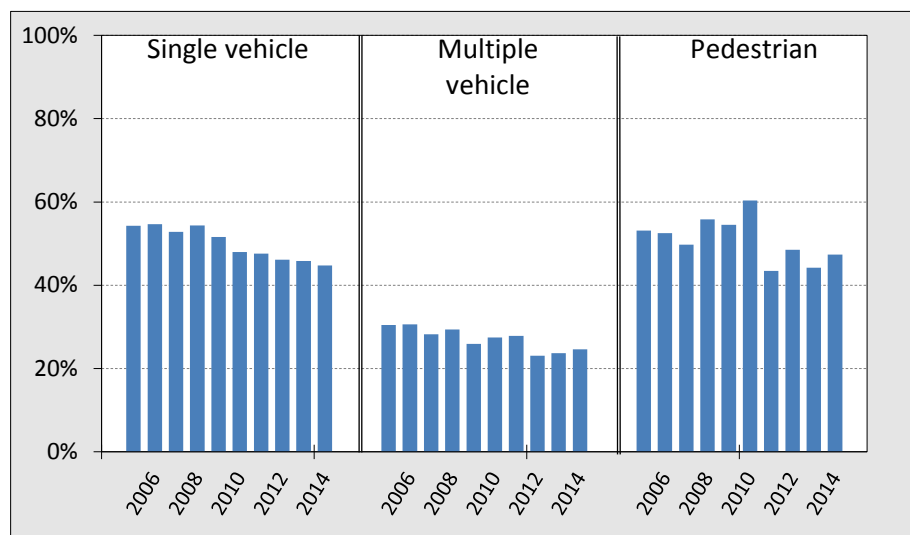
	<i>Single</i>		<i>Multiple</i>		<i>Pedestrian</i>		<i>All<sup>b</sup></i>	
	<i>Night-time</i>	<i>Day-time<sup>c</sup></i>	<i>Night-time</i>	<i>Day-time</i>	<i>Night-time</i>	<i>Day-time</i>	<i>Night-time</i>	<i>Day-time</i>
2005	355	299	181	413	119	105	655	817
2006	371	308	169	383	116	105	656	796
2007	361	322	160	407	101	102	622	831
2008	344	289	145	349	105	83	594	721
2009	335	314	132	377	103	86	570	777
2010	261	283	143	377	102	67	506	727
2011	240	264	129	334	80	104	449	702
2012	240	280	116	387	81	86	437	753
2013	236	279	102	328	69	87	407	694
2014	209	258	108	331	71	79	388	668
% change 2013-2014	-11.4	-7.5	5.9	0.9	2.9	-9.2	-4.7	-3.7
Ave. trend change p.a. (%)	-6.6	-1.9	-5.9	-2.1	-6.0	-2.6	-6.3	-2.0

a A crash in which a pedestrian dies is classified as a pedestrian crash. All other crashes are classified by whether there are one or more moving vehicles involved.

b Excludes crashes with time not recorded.

c Daytime' refers to the period 6am to 5:59 pm each day.

Source Australian Road Deaths Database

**Figure 3.2** Proportion of fatal crashes occurring during night-time<sup>a,b,c</sup>

a A crash in which a pedestrian dies is classified as a pedestrian crash. All other crashes are classified by whether there are one or more moving vehicles involved.

b Excludes crashes with time not recorded.

c Daytime' refers to the period 6am to 5:59 pm each day.

Source Australian Road Deaths Database



**Table 3.3** Fatal crashes by crash type<sup>a</sup> and day of week

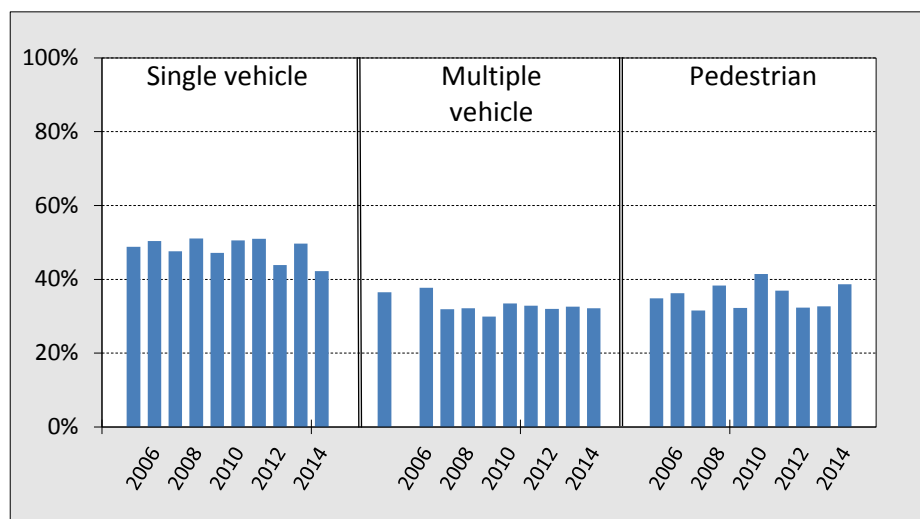
	<i>Single</i>		<i>Multiple</i>		<i>Pedestrian</i>		<i>All<sup>c</sup></i>	
	<i>Week-end<sup>b</sup></i>	<i>Week-day</i>	<i>Week-end</i>	<i>Week-day</i>	<i>Week-end</i>	<i>Week-day</i>	<i>Week-end</i>	<i>Week-day</i>
2005	319	335	217	377	78	146	614	858
2006	342	337	208	344	80	141	630	822
2007	325	358	181	386	64	139	570	883
2008	323	310	159	335	72	116	554	761
2009	306	343	152	357	61	128	519	828
2010	275	269	174	346	70	99	519	714
2011	257	247	152	311	68	116	477	674
2012	228	292	161	342	54	113	443	747
2013	256	259	140	290	51	105	447	654
2014	197	270	141	298	58	92	396	660
% change 2013-2014	-23.0	4.2	0.7	2.8	13.7	-12.4	-11.4	0.9
Ave. trend change p.a. (%)	-5.3	-3.4	-4.3	-2.5	-4.0	-4.5	-4.8	-3.2

a A crash in which a pedestrian dies is classified as a pedestrian crash. All other crashes are classified by whether there are one or more moving vehicles involved.

b 'Weekend' refers to the period 6pm Friday to 5:59am Monday.

c Excludes crashes with time not recorded.

Source Australian Road Deaths Database

**Figure 3.3** Proportion of fatal crashes occurring during weekend<sup>a,b,c</sup>

a A crash in which a pedestrian dies is classified as a pedestrian crash. All other crashes are classified by whether there are one or more moving vehicles involved.

b 'Weekend' refers to the period 6pm Friday to 5:59am Monday.

c Excludes crashes with time not recorded.

Source Australian Road Deaths Database

**Table 3.4** Fatal crashes by crash type<sup>a</sup> and weekly time block—2012 to 2014

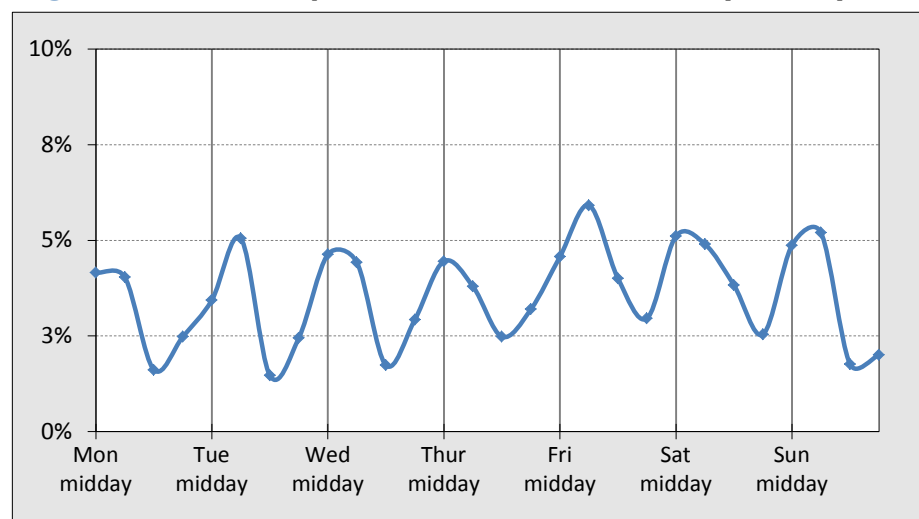
Crash time of week		Single	Multiple	Pedestrian	All <sup>b</sup>
Monday	Morning	26	35	6	67
	Midday	55	66	18	139
	Evening	57	52	26	135
	Night	37	11	6	54
Tuesday	Morning	27	43	13	83
	Midday	40	61	14	115
	Evening	59	81	29	169
	Night	30	14	5	49
Wednesday	Morning	35	29	18	82
	Midday	58	75	22	155
	Evening	51	66	31	148
	Night	37	17	4	58
Thursday	Morning	39	48	11	98
	Midday	40	87	22	149
	Evening	44	50	33	127
	Night	50	22	11	83
Friday	Morning	59	37	11	107
	Midday	47	86	20	153
	Evening	80	87	31	198
	Night	83	27	24	134
Saturday	Morning	52	36	11	99
	Midday	87	72	12	171
	Evening	78	64	22	164
	Night	84	17	27	128
Sunday	Morning	52	20	13	85
	Midday	71	81	11	163
	Evening	86	72	16	174
	Night	37	16	6	59

**Morning** 3am to 8:59am      **Midday** 9am to 2:59pm      **Evening** 3pm to 8:59pm      **Night** 9pm to 2:59am

a A crash in which a pedestrian dies is classified as a pedestrian crash. All other crashes are classified by whether there are one or more moving vehicles involved.

b Excludes crashes with unrecorded time.

Source Australian Road Deaths Database

**Figure 3.4** Proportion of all fatal crashes by weekly time block

Source Australian Road Deaths Database

**Table 3.5**      **Fatal crashes involving heavy vehicles<sup>a</sup> and not involving heavy vehicles**

	<i>Articulated trucks</i>	<i>Heavy rigid trucks</i>	<i>Buses</i>	<i>No heavy vehicle involved</i>	<i>Australia<sup>b</sup></i>
<b>All fatal crashes</b>					
2005	132	78	29	1,236	1,472
2006	145	72	19	1,220	1,452
2007	147	80	25	1,208	1,453
2008	129	87	20	1,081	1,315
2009	121	73	25	1,134	1,347
2010	123	69	20	1,029	1,233
2011	124	60	24	948	1,151
2012	124	86	17	971	1,190
2013	89	64	11	941	1,101
2014	100	76	16	866	1,056
% change 2013-2014	12.4	18.8	45.5	-8.0	-4.1
Ave. trend change p.a. (%)	-4.1	-1.1	-6.3	-3.9	-3.8

a      Road traffic crashes in which one or more heavy vehicles were involved (articulated truck, heavy rigid truck or bus).

b      Columns do not sum to total as some crashes involve more than one type of heavy vehicle.

Sources      Australian Road Deaths Database; BITRE 2015

**Table 3.6** Fatal crashes by speed zone and jurisdiction<sup>a</sup>

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT <sup>b</sup>	Australia
<b>Speed zone 0 – 60 km/h</b>									
2005	171	83	92	49	40	9	9	0	453
2006	143	88	127	36	48	10	9	0	461
2007	153	71	117	35	46	5	9	0	436
2008	125	81	109	25	45	8	19	11	423
2009	140	77	106	30	43	11	3	3	413
2010	109	72	74	36	47	4	8	9	359
2011	111	79	69	32	42	4	7	2	346
2012	126	79	96	27	55	5	8	6	402
2013	105	62	70	39	50	10	8	4	348
2014	111	50	63	32	47	7	6	6	322
% change 2013-2014	5.7	-19.4	-10.0	-17.9	-6.0	-30.0	-25.0	50.0	-7.5
Ave. trend change p.a. (%)	-4.5	-3.9	-6.1	-2.2	1.5	-3.2	-4.2	-	-3.7
<b>Speed zone 70 – 90 km/h</b>									
2005	104	83	48	16	42	12	7	0	312
2006	117	68	56	23	51	5	9	0	329
2007	92	68	76	11	54	5	7	0	313
2008	92	71	57	19	56	6	15	3	319
2009	90	59	68	23	44	7	9	7	307
2010	96	57	51	17	35	8	14	5	283
2011	70	58	44	18	33	5	9	2	239
2012	73	64	54	22	42	7	10	4	276
2013	82	53	53	12	36	7	5	3	251
2014	64	54	44	7	45	5	11	2	232
% change 2013-2014	-22.0	1.9	-17.0	-41.7	25.0	-28.6	120.0	-33.3	-7.6
Ave. trend change p.a. (%)	-5.2	-3.9	-2.4	-5.3	-2.9	-2.5	0.4	-	-3.7
<b>Speed zone 100 km/h</b>									
2005	153	128	149	33	7	23	8	0	501
2006	148	140	117	34	8	21	6	0	474
2007	135	141	132	39	14	18	5	0	484
2008	114	116	121	27	14	15	11	0	418
2009	144	124	106	21	12	27	4	1	439
2010	146	119	98	26	14	14	6	2	425
2011	134	109	111	21	13	10	3	2	403
2012	113	107	96	17	7	13	5	2	360
2013	108	94	110	24	11	17	4	0	368
2014	97	113	87	31	14	11	3	2	358
% change 2013-2014	-10.2	20.2	-20.9	29.2	27.3	-35.3	-25.0	-	-2.7
Ave. trend change p.a. (%)	-4.0	-3.3	-4.3	-4.6	3.0	-6.8	-8.8	-	-3.8

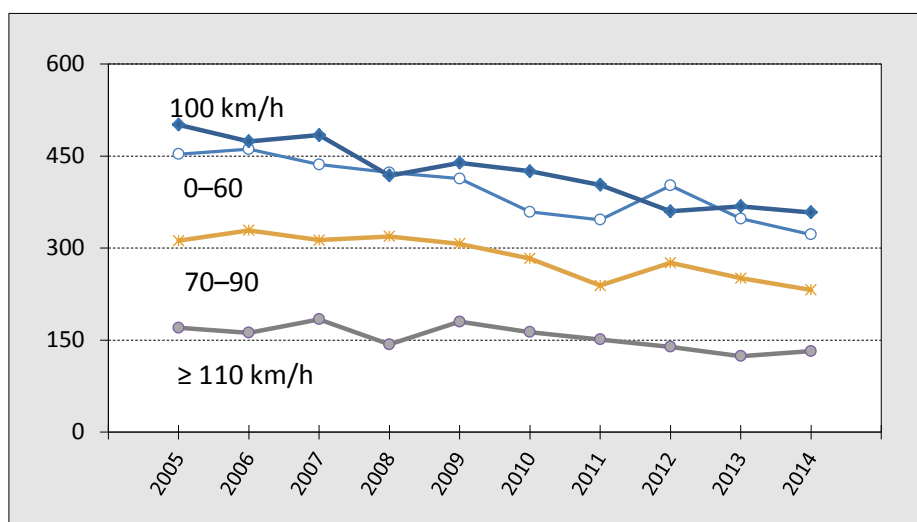
**Table 3.6** Fatal crashes by speed zone and jurisdiction (continued)

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT <sup>b</sup>	Australia
<b>Speed zone <math>\geq 110</math> km/h</b>									
2005	31	12	7	29	59	5	27	0	170
2006	41	13	13	11	61	7	16	0	162
2007	25	9	13	22	80	11	24	0	184
2008	22	8	5	16	65	8	19	0	143
2009	34	7	16	30	71	7	15	0	180
2010	13	11	13	26	79	3	18	0	163
2011	21	9	3	24	71	4	19	0	151
2012	23	9	9	20	57	4	17	0	139
2013	20	12	12	15	48	1	16	0	124
2014	18	6	5	25	57	7	14	0	132
% change 2013-2014	-10.0	-50.0	-58.3	66.7	18.8	600.0	-12.5	-	6.5
Ave. trend change p.a. (%)	-6.7	-3.6	-4.3	0.9	-2.0	-10.6	-4.4	-	-3.3

a Excludes crashes with unrecorded posted speed limit.

b Prior to 2008, speed zone for ACT crashes was not provided.

Source Australian Road Deaths Database

**Figure 3.5** Counts of fatal crashes within speed zone

Source Australian Road Deaths Database

**Table 3.7** Fatal crashes by road type

	<i>National or State highway</i>	<i>Arterial</i>	<i>Sub-arterial</i>	<i>Local</i>	<i>Other<sup>a</sup></i>	<i>Total<sup>b</sup></i>
2008	377	307	234	257	116	1,315
2009	393	344	180	279	128	1,344
2010	379	301	195	231	112	1,232
2011	357	268	202	220	85	1,151
2012	360	280	203	234	99	1,191
2013	348	238	165	236	102	1,099

a Includes Collector road, Access road, Path and Busway.

b Includes crashes with undetermined road type.

Source Australian Road Deaths Database

**Table 3.8** Fatal crashes by remoteness region<sup>a</sup>

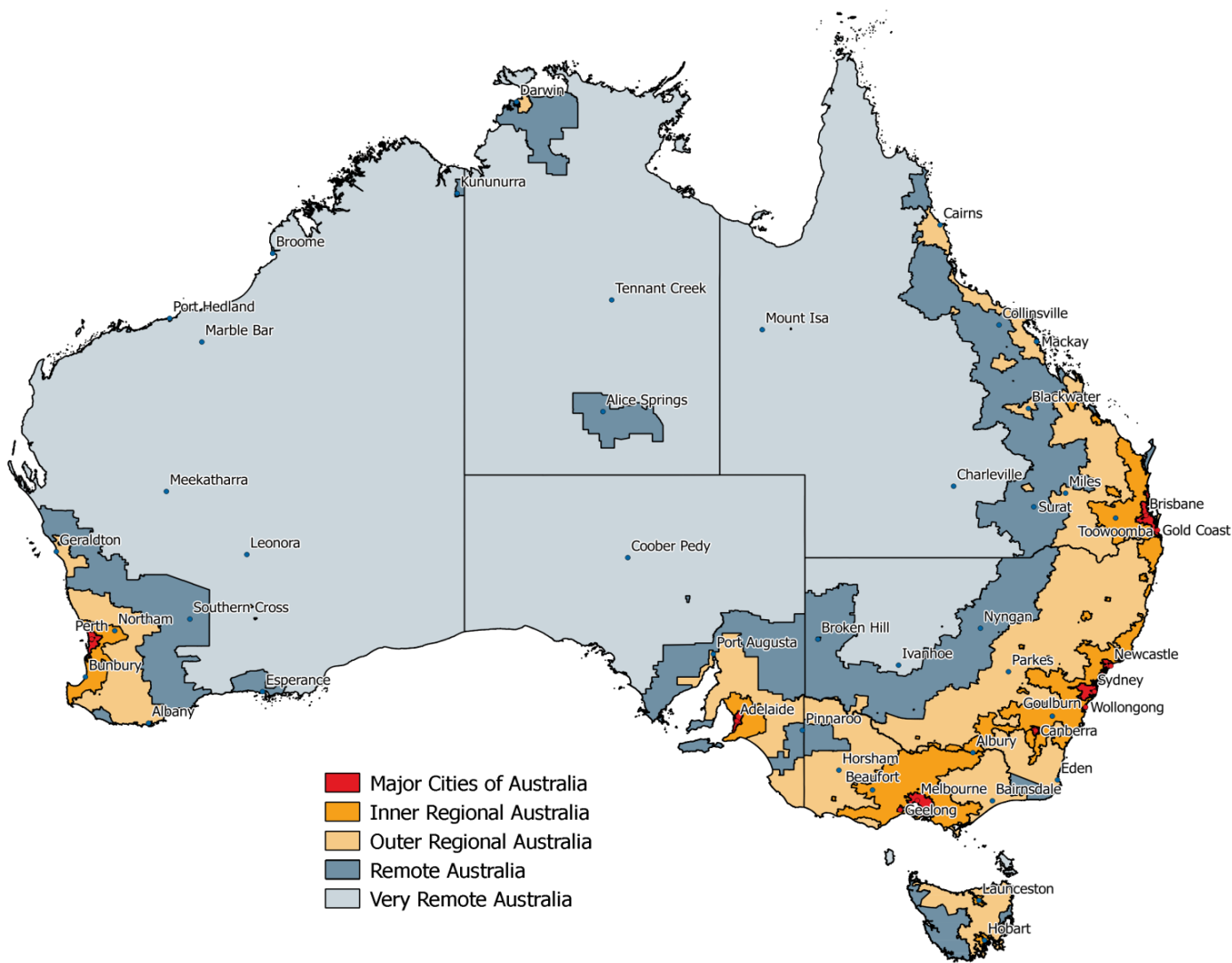
	<i>Major cities</i>	<i>Inner regional</i>	<i>Outer regional</i>	<i>Remote</i>	<i>Very remote</i>	<i>Total<sup>b</sup></i>
2008	519	400	273	52	61	1,315
2009	483	410	314	75	53	1,344
2010	419	414	260	66	66	1,232
2011	401	376	245	66	52	1,151
2012	423	413	253	42	49	1,191
2013	393	368	217	69	49	1,099

a Remoteness regions have been classified as per Australian Statistical Geography Standard (ASGS).

b Includes undetermined remoteness regions.

Source Australian Road Deaths Database

**Figure 3.6**      **ASGS<sup>a</sup> remoteness areas 2011 and selected cities and towns**

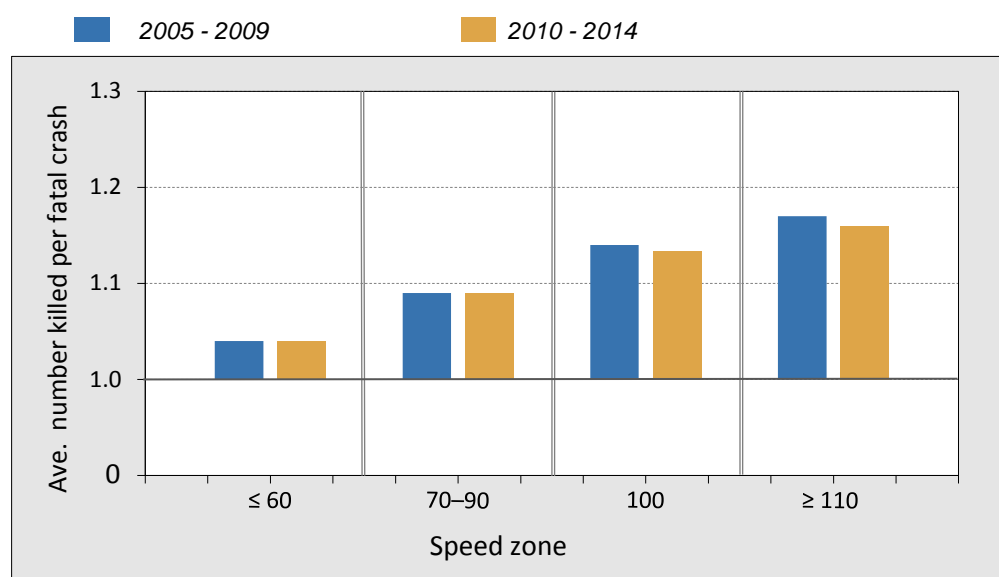


a      ASGS: Australian Statistical Geography Standard  
Source      Australian Road Deaths Database

**Table 3.9**      **Average number of persons killed per fatal crash**  
**—2005 to 2009 and 2010 to 2014**

	<i>Single vehicle crash</i>	<i>Multiple vehicle crash</i>	<i>Pedestrian crash</i>
<b>All fatal crashes</b>			
2005 - 2009	1.08	1.16	1.02
2010 - 2014	1.08	1.14	1.02
<b>Speed zone 0– 60 km/h</b>			
2005 - 2009	1.07	1.05	1.01
2010 - 2014	1.05	1.05	1.01
<b>Speed zone 70– 90 km/h</b>			
2005 - 2009	1.08	1.11	1.03
2010 - 2014	1.09	1.10	1.03
<b>Speed zone 100 km/h</b>			
2005 - 2009	1.08	1.24	1.09
2010 - 2014	1.06	1.22	1.02
<b>Speed zone ≥ 110 km/h</b>			
2005 - 2009	1.11	1.32	1.00
2010 - 2014	1.12	1.24	1.12

**Figure 3.7**      **Average number of persons killed per fatal crash by speed zone**

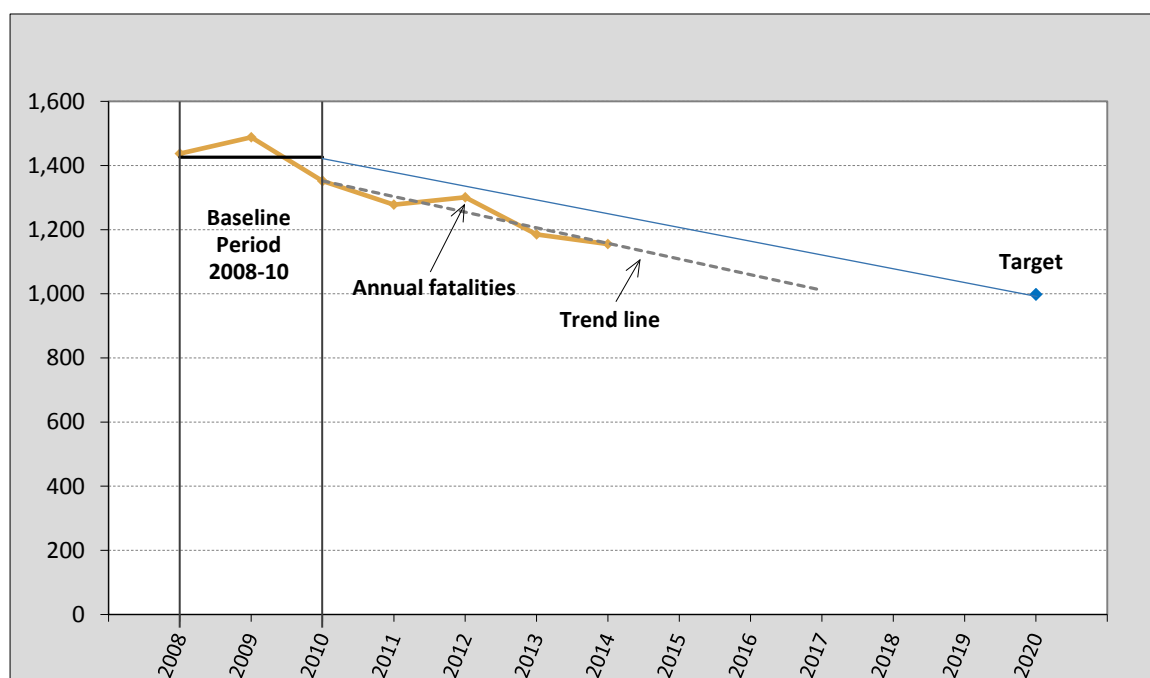




## CHAPTER 4      National Road Safety Strategy 2011–2020 statistical progress

The National Road Safety Strategy 2011–2020 lists a number of statistics that will be used to monitor progress against the targets within each of the Strategy's four cornerstones (Safe Roads, Safe Speeds, Safe Vehicles and Safe People). These statistics were first published by the Transport and Infrastructure Council in November 2013. The present chapter updates these statistics to 2013 and 2014.

**Figure 4.1**      **NRSS 2011–2020 statistical progress towards fatality target**



**Table 4.1**      **National Road Safety Strategy (NRSS) statistical progress**  
**—High level outcome measures**

<i>Measure</i>	<i>Baseline (2008-2010)<sup>a</sup></i>	<i>2013<sup>b</sup></i>	<i>2014<sup>c</sup></i>	<i>% Change baseline-2013</i>
<i>Number of deaths resulting from road crashes</i>	1,426	1,187	1,156	-16.8
<i>Number of road crashes resulting in deaths</i>	1,297	1,101	1,056	-15.1
<i>Number of deaths per 100,000 population</i>	6.5	5.1	4.9	-21.0
<i>Number of deaths per 100 million vehicle-kilometres travelled</i>	0.65	0.50	0.48	-23.8
<i>Number of deaths per 10,000 registered vehicles</i>	0.91	0.69	0.66	-24.1

a Average annual number during the three-year period 2008 to 2010.

b Uses data from the Australian Road Deaths Database where available, otherwise National Crash Database.

c Uses data from the Australian Road Deaths Database where available.

Source Australian Road Deaths Database

**Table 4.2**      **National Road Safety Strategy (NRSS) statistical progress**  
**—Safety performance indicators**

<i>Measure</i>	<i>Baseline (2008-2010)<sup>a</sup></i>	<i>2013<sup>b</sup></i>	<i>2014<sup>c</sup></i>	<i>% Change baseline-2013</i>
<b>Safe roads</b>				
<i>Number of deaths from head-on crashes</i>	272	210	na	-22.8
<i>Number of deaths from single-vehicle crashes</i>	651	550	497	-15.5
<i>Number of deaths from intersection crashes</i>	301	258	na	-14.3
<i>Number of deaths from crashes on metropolitan roads</i>	492	412	na	-16.3
<i>Number of deaths from crashes on regional roads</i>	787	642	na	-18.4
<i>Number of deaths from crashes on remote roads</i>	135	128	na	-5.2

#### **Safe speeds**

*Number of deaths from crashes where speed was a contributory factor*      *Data not available*

*Mean free speeds at designated sites across the network*      *Data not available*

*Percentage of vehicles speeding by vehicle type and offence category*      *Data not available*

#### **Safe vehicles**

*Average age of the Australian vehicle fleet (years)*      9.96      10.0      na      0.4

*Percentage of new vehicles sold with a 5-star ANCAP rating*      40% (2010)      65%           62.5

*Percentage of new vehicles sold with key safety features*      *Data not available*

**Table 4.2**      **National Road Safety Strategy (NRSS) statistical progress**  
**—Safety performance indicators (continued)**

<i>Measure</i>	<i>Baseline (2008-2010)<sup>a</sup></i>	<i>2013<sup>b</sup></i>	<i>2014<sup>c</sup></i>	<i>% Change baseline-2013</i>
<b>Safe people – responsible road use</b>				
<i>Number of young driver and motorcycle rider deaths (aged 17-25 years)</i>	222	153	148	-31.1
<i>Number of deaths from crashes involving a young driver or motorcycle rider (aged 17-25 years)</i>	469	304	na	-35.2
<i>Number of older driver and motorcycle rider deaths (aged 65+ years)</i>	114	155	138	36.0
<i>Number of deaths from crashes involving an older driver or motorcycle rider (aged 65+ years)</i>	207	248	na	19.8
<i>Number of motorcyclist<sup>d</sup> deaths</i>	234	213	192	-9.0
<i>Number of bicyclist<sup>d</sup> deaths</i>	32	50	45	56.3
<i>Number of pedestrian deaths</i>	186	158	152	-15.1
<i>Number of deaths from crashes involving a heavy vehicle</i>	252	186	220	-26.2
<b>Safe people – irresponsible road use<sup>e</sup></b>				
<i>Number of drivers and motorcycle riders killed with a blood alcohol concentration (BAC) above the legal limit<sup>f</sup></i>	186	136	na	-26.9
<i>Number of deaths from crashes involving a driver or motorcycle rider with a blood alcohol concentration (BAC) above the legal limit<sup>f</sup></i>	263	174	na	-33.8
<i>Number of deaths from crashes involving an unlicensed driver or motorcycle rider</i>	174	106	na	-39.1
<i>Number of vehicle occupants killed who were not wearing a restraint</i>	216	140	na	-35.2

a Average annual number during the three-year period 2008 to 2010.

b Uses data from the Australian Road Deaths Database where available, otherwise National Crash Database.

c Uses data from the Australian Road Deaths Database where available.

d Includes pillion passengers

e Fatality counts for each of the following indicators are lower-bound estimates – due to a substantial number of cases with unknown values.

f Excludes data from Victoria.

Sources National Crash Database; Austroads 2015; Australian Bureau of Statistics 2014b

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## CHAPTER 5      Historical series

This section presents longer time series of annual fatalities, crashes, exposure and rates.

- Over the last 30 years, annual fatalities decreased by 61 per cent. By jurisdiction, the reductions range from 26 per cent for Western Australia to 71 per cent for New South Wales (Table 5.1, p 48).
- As for the most recent decade, the longer term reductions are strongest for younger age groups. Deaths of road users aged under 40 declined by 71% over 25 years, and for over 40 years, the decline was 34 per cent (Table 5.3, p 50). Standardised by population, the differences between age groups are less pronounced: there was a 75 per cent reduction for road users aged under 40 years, and a 56 per cent reduction in deaths of people aged over 40 years.
- Since 1991, total vehicle registrations have grown by 78 per cent. Passenger car registrations have increased by 72 per cent, and motorcycle registrations increased by 174 per cent (with most of this increase occurring in the ten years to 2014) (Table 5.9, p 56).
- Between 2002 and 2011, annual hospitalised injuries increased by 22 per cent (Table 5.10, p 57). During the same period fatalities decreased by 26 per cent.

**Table 5.1 Deaths by jurisdiction 1985 – 2014**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas</i>	<i>NT</i>	<i>ACT</i>	<i>Australia</i>
1985	1,067	683	502	268	243	78	67	33	2,941
1986	1,029	668	481	288	228	91	71	32	2,888
1987	959	705	442	256	213	77	84	36	2,772
1988	1,037	701	539	223	230	75	51	31	2,887
1989	959	776	428	222	242	80	61	32	2,800
1990	797	548	399	226	196	71	68	26	2,331
1991	663	503	395	184	207	77	67	17	2,113
1992	649	396	416	165	200	74	54	20	1,974
1993	581	435	396	218	209	58	44	12	1,953
1994	646	377	418	159	211	59	41	17	1,928
<i>Ave. trend change p.a. (%)</i>	-7.0	-7.3	-2.6	-5.5	-1.6	-3.5	-5.3	-10.2	-5.5
1995	620	418	456	181	209	57	61	15	2,017
1996	581	417	385	181	247	64	72	23	1,970
1997	576	377	360	148	197	32	60	17	1,767
1998	556	390	279	168	223	48	69	22	1,755
1999	577	383	314	151	218	53	49	19	1,764
2000	603	407	317	166	212	43	51	18	1,817
2001	524	444	324	153	165	61	50	16	1,737
2002	561	397	322	154	179	37	55	10	1,715
2003	539	330	310	157	180	41	53	11	1,621
2004	510	343	311	139	178	58	35	9	1,583
<i>Ave. trend change p.a. (%)</i>	-1.5	-1.6	-3.0	-2.0	-3.0	-1.0	-5.0	-7.8	-2.2
2005	508	346	330	148	163	51	55	26	1,627
2006	496	337	335	117	200	55	45	13	1,598
2007	435	332	360	124	235	45	58	14	1,603
2008	374	303	328	99	205	39	75	14	1,437
2009	454	290	331	119	191	63	31	12	1,491
2010	405	288	249	118	193	31	50	19	1,353
2011	364	287	269	103	179	24	45	6	1,277
2012	369	282	280	94	183	31	49	12	1,300
2013	333	243	271	98	162	36	37	7	1,187
2014	312	249	223	107	181	35	39	10	1,156
<i>Ave. trend change p.a. (%)</i>	-4.8	-3.7	-4.2	-3.2	-1.3	-6.1	-3.8	-9.1	-4.0

Source Australian Road Deaths Database

**Table 5.2 Deaths by road user 1985 – 2014**

	<i>Drivers</i>	<i>Passengers</i>	<i>Pedestrians</i>	<i>Motor-cyclists</i>	<i>Pedal cyclists</i>	<i>All road users<sup>a</sup></i>
1985	1,143	763	538	404	83	2,941
1986	1,134	730	537	405	78	2,888
1987	1,095	737	493	359	79	2,772
1988	1,144	776	548	323	87	2,887
1989	1,122	780	501	299	98	2,800
1990	935	634	420	262	80	2,331
1991	910	554	343	248	58	2,113
1992	815	570	350	197	41	1,974
1993	859	513	331	203	45	1,953
1994	809	501	367	190	59	1,928
<i>Ave. trend change p.a. (%)</i>	-4.4	-5.2	-6.0	-9.0	-6.8	-5.5
1995	874	491	398	204	48	2,017
1996	869	499	351	193	57	1,970
1997	776	431	328	177	52	1,767
1998	741	468	318	181	44	1,755
1999	820	428	299	176	40	1,764
2000	852	450	287	191	31	1,817
2001	776	407	290	216	46	1,737
2002	785	422	249	224	34	1,715
2003	747	420	232	188	26	1,621
2004	760	362	220	195	43	1,583
<i>Ave. trend change p.a. (%)</i>	-1.3	-2.6	-5.8	0.7	-5.2	-2.2
2005	775	347	226	233	41	1,627
2006	757	336	228	238	39	1,598
2007	785	336	204	237	41	1,603
2008	670	303	189	245	28	1,437
2009	707	333	196	224	31	1,491
2010	636	284	170	224	38	1,353
2011	568	286	186	202	34	1,277
2012	610	260	170	223	33	1,300
2013	557	204	158	213	50	1,187
2014	535	229	152	192	45	1,156
<i>Ave. trend change p.a. (%)</i>	-4.4	-5.2	-4.3	-2.0	1.4	-4.0

<sup>a</sup> Drivers, passengers, pedestrians, motorcyclists, pedal cyclists and those with unstated or unknown road user type.  
Source Australian Road Deaths Database

**Table 5.3 Deaths by age group 1985 – 2014**

	<i>0-16 years</i>	<i>17-25 years</i>	<i>26-39 years</i>	<i>40-64 years<sup>a</sup></i>	<i>65-74 years<sup>a</sup></i>	<i>≥ 75 years<sup>a</sup></i>	<i>All deaths<sup>b</sup></i>
1985	326	1,040	634	-	-	-	2,941
1986	327	988	641	-	-	-	2,888
1987	293	939	624	-	-	-	2,772
1988	293	957	642	-	-	-	2,887
1989	296	911	667	541	189	187	2,800
1990	238	749	522	468	170	181	2,331
1991	198	646	489	418	182	176	2,113
1992	191	600	467	391	163	155	1,974
1993	178	592	479	407	140	154	1,953
1994	184	543	431	407	188	175	1,928
<i>Ave. trend change p.a. (%)</i>	-9.0	-9.2	-6.9	-5.3	-2.0	-2.7	-6.8
1995	177	596	486	420	157	177	2,017
1996	190	554	449	451	140	183	1,970
1997	164	512	413	380	137	150	1,767
1998	167	459	397	420	132	168	1,755
1999	147	473	443	389	137	166	1,764
2000	157	487	457	422	127	167	1,817
2001	136	450	410	446	127	168	1,737
2002	129	445	444	434	105	157	1,715
2003	148	412	373	418	107	159	1,621
2004	112	429	353	433	100	155	1,583
<i>Ave. trend change p.a. (%)</i>	-4.5	-3.4	-2.2	0.4	-4.4	-1.2	-2.2
2005	110	426	414	408	112	154	1,627
2006	118	435	393	424	98	129	1,598
2007	101	392	412	451	101	145	1,603
2008	87	377	345	395	86	147	1,437
2009	106	362	355	445	94	129	1,491
2010	74	336	305	418	97	122	1,353
2011	93	280	275	398	83	148	1,277
2012	70	284	300	400	96	149	1,300
2013	66	230	243	374	118	156	1,187
2014	65	233	252	362	111	130	1,156
<i>Ave. trend change p.a. (%)</i>	-6.3	-7.3	-6.0	-1.6	0.5	-0.1	-4.0

a Due to changes in age groups, data prior to 1989 is not available.

b Includes those with unstated or unknown age.

Source Australian Road Deaths Database



**Table 5.4 Annual fatalities per 100,000 population by jurisdiction 1985 – 2014**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas</i>	<i>NT</i>	<i>ACT</i>	<i>Australia</i>
1985	19.5	16.6	19.5	19.5	17.1	17.6	45.1	13.1	18.6
1986	18.6	16.1	18.3	20.8	15.6	20.4	46.0	12.4	18.0
1987	17.1	16.7	16.5	18.4	14.2	17.1	53.1	13.6	17.0
1988	18.2	16.4	19.7	15.9	15.0	16.6	32.1	11.4	17.5
1989	16.6	18.0	15.1	15.6	15.3	17.6	37.8	11.6	16.7
1990	13.7	12.5	13.8	15.8	12.2	15.4	41.5	9.2	13.7
1991	11.2	11.4	13.3	12.7	12.7	16.5	40.5	5.9	12.2
1992	10.9	8.9	13.8	11.3	12.1	15.7	32.0	6.8	11.3
1993	9.7	9.7	12.8	14.9	12.4	12.3	25.6	4.0	11.1
1994	10.7	8.4	13.2	10.9	12.4	12.5	23.4	5.6	10.8
<i>Ave. trend change p.a. (%)</i>	-8.1	-8.3	-4.8	-6.3	-3.6	-4.3	-6.9	-12.1	-6.8
1995	10.2	9.3	14.1	12.4	12.0	12.0	34.0	4.9	11.2
1996	9.4	9.2	11.7	12.3	14.0	13.5	39.0	7.4	10.8
1997	9.2	8.3	10.7	10.0	11.0	6.7	31.6	5.5	9.6
1998	8.8	8.5	8.2	11.3	12.2	10.1	35.8	7.1	9.4
1999	9.1	8.2	9.1	10.1	11.8	11.2	25.0	6.0	9.4
2000	9.4	8.7	9.0	11.1	11.3	9.1	25.6	5.7	9.5
2001	8.0	9.3	9.1	10.2	8.7	12.9	24.8	5.0	9.0
2002	8.5	8.2	8.8	10.2	9.3	7.8	27.2	3.1	8.8
2003	8.1	6.8	8.3	10.3	9.2	8.6	26.3	3.4	8.2
2004	7.7	7.0	8.1	9.1	9.0	12.0	17.3	2.7	7.9
<i>Ave. trend change p.a. (%)</i>	-2.5	-2.6	-4.8	-2.5	-4.4	-1.2	-6.3	-8.6	-3.3
2005	7.6	6.9	8.4	9.6	8.1	10.5	26.7	7.8	8.1
2006	7.4	6.7	8.4	7.5	9.8	11.2	21.5	3.9	7.8
2007	6.4	6.4	8.8	7.9	11.2	9.1	27.1	4.1	7.7
2008	5.4	5.8	7.8	6.2	9.4	7.8	34.1	4.0	6.8
2009	6.4	5.4	7.6	7.4	8.5	12.5	13.7	3.4	6.9
2010	5.7	5.3	5.7	7.3	8.4	6.1	21.8	5.3	6.1
2011	5.0	5.2	6.0	6.3	7.6	4.7	19.5	1.6	5.7
2012	5.0	5.0	6.1	5.7	7.5	6.1	20.8	3.2	5.7
2013	4.5	4.2	5.8	5.9	6.4	7.0	15.3	1.8	5.1
2014	4.1	4.3	4.7	6.3	7.0	6.8	15.9	2.6	4.9
<i>Ave. trend change p.a. (%)</i>	-6.1	-5.4	-6.2	-4.2	-4.1	-6.7	-5.7	-10.7	-5.6

Source Australian Road Deaths Database

**Table 5.5 Fatal crashes by jurisdiction 1985 – 2014**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas</i>	<i>NT</i>	<i>ACT</i>	<i>Australia</i>
<i>1985</i>	954	605	452	239	219	69	59	30	2,627
<i>1986</i>	908	610	421	259	208	78	63	30	2,577
<i>1987</i>	858	626	400	230	193	67	80	33	2,487
<i>1988</i>	912	627	483	206	199	68	46	31	2,572
<i>1989</i>	784	681	376	201	214	68	57	26	2,407
<i>1990</i>	702	492	347	187	181	63	54	24	2,050
<i>1991</i>	585	435	359	166	187	66	60	16	1,874
<i>1992</i>	576	365	363	142	171	59	42	18	1,736
<i>1993</i>	518	381	357	191	191	47	41	11	1,737
<i>1994</i>	552	345	364	143	195	52	36	15	1,702
<i>Ave. trend change p.a. (%)</i>	-7.2	-7.3	-2.7	-5.8	-1.6	-4.1	-5.8	-10.5	-5.6
<i>1995</i>	563	371	408	163	194	53	56	14	1,822
<i>1996</i>	538	382	338	162	220	53	58	17	1,768
<i>1997</i>	525	346	321	123	184	29	56	17	1,601
<i>1998</i>	491	348	257	152	199	47	59	20	1,573
<i>1999</i>	506	345	273	132	189	47	44	17	1,553
<i>2000</i>	543	373	275	151	184	38	48	16	1,628
<i>2001</i>	486	404	296	137	151	52	43	15	1,584
<i>2002</i>	501	361	283	138	159	35	40	8	1,525
<i>2003</i>	483	294	284	136	155	39	44	10	1,445
<i>2004</i>	458	312	289	128	162	52	34	9	1,444
<i>Ave. trend change p.a. (%)</i>	-1.7	-1.6	-2.7	-1.8	-3.4	-0.8	-5.3	-7.2	-2.2
<i>2005</i>	459	314	296	127	151	49	51	25	1,472
<i>2006</i>	449	309	313	104	181	43	41	12	1,452
<i>2007</i>	405	289	338	107	214	39	47	14	1,453
<i>2008</i>	353	278	294	87	185	37	67	14	1,315
<i>2009</i>	409	268	296	104	176	52	31	11	1,347
<i>2010</i>	365	260	236	105	176	29	46	16	1,233
<i>2011</i>	336	259	227	95	167	23	38	6	1,151
<i>2012</i>	336	261	255	86	171	29	40	12	1,190
<i>2013</i>	316	225	246	90	149	35	33	7	1,101
<i>2014</i>	290	224	199	95	171	33	34	10	1,056
<i>Ave. trend change p.a. (%)</i>	-4.6	-3.6	-4.5	-2.7	-1.0	-5.0	-4.3	-8.7	-3.8
Source Australian Road Deaths Database									

**Table 5.6** Fatal crashes by crash type 1989 – 2014

	<i>Single vehicle crashes</i>	<i>Multiple vehicle crashes</i>	<i>Pedestrian crashes</i>
1985	-	-	-
1986	-	-	-
1987	-	-	-
1988	-	-	-
1989	877	1,032	498
1990	792	843	415
1991	767	769	338
1992	660	732	344
1993	725	684	328
1994	652	687	363
<i>Ave. trend change p.a. (%)</i>	-5.3	-7.5	-6.3
1995	714	717	391
1996	709	711	348
1997	641	640	320
1998	637	623	313
1999	584	671	298
2000	676	665	287
2001	648	646	290
2002	685	594	246
2003	634	584	227
2004	637	589	218
<i>Ave. trend change p.a. (%)</i>	-0.8	-2.1	-5.8
2005	654	594	224
2006	679	552	221
2007	683	567	203
2008	633	494	188
2009	649	509	189
2010	544	520	169
2011	504	463	184
2012	520	503	167
2013	515	430	156
2014	467	439	150
<i>Ave. trend change p.a. (%)</i>	-4.3	-3.1	-4.3
Source	Australian Road Deaths Database		

**Table 5.7**      **Population (000s) by jurisdiction 1985 – 2014 (June)<sup>a</sup>**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas</i>	<i>NT</i>	<i>ACT</i>	<i>Australia</i>
1985	5,465	4,120	2,571	1,371	1,419	443	149	251	15,788
1986	5,532	4,161	2,625	1,383	1,459	446	154	259	16,018
1987	5,617	4,210	2,675	1,393	1,496	449	158	265	16,264
1988	5,707	4,263	2,740	1,405	1,535	451	159	272	16,532
1989	5,776	4,320	2,828	1,419	1,578	455	161	276	16,814
1990	5,834	4,379	2,899	1,432	1,613	462	164	282	17,065
1991	5,899	4,420	2,961	1,446	1,636	467	165	289	17,284
1992	5,958	4,450	3,023	1,455	1,659	470	169	295	17,479
1993	5,995	4,463	3,096	1,459	1,679	472	172	300	17,635
1994	6,045	4,473	3,167	1,463	1,705	473	175	302	17,805
<i>Ave. trend change p.a. (%)</i>	1.1	1.0	2.4	0.8	2.1	0.8	1.6	2.1	1.4
1995	6,106	4,498	3,237	1,465	1,736	475	180	306	18,005
1996	6,176	4,535	3,303	1,469	1,768	476	185	310	18,225
1997	6,246	4,569	3,355	1,476	1,798	475	190	311	18,423
1998	6,306	4,607	3,404	1,483	1,826	473	193	312	18,608
1999	6,375	4,652	3,454	1,491	1,854	473	196	314	18,812
2000	6,447	4,704	3,509	1,498	1,879	473	199	317	19,029
2001	6,530	4,764	3,571	1,503	1,906	474	202	322	19,275
2002	6,581	4,818	3,653	1,512	1,929	474	202	325	19,495
2003	6,621	4,874	3,743	1,520	1,953	479	202	327	19,721
2004	6,651	4,927	3,830	1,528	1,980	483	203	329	19,933
<i>Ave. trend change p.a. (%)</i>	1.0	1.0	1.8	0.5	1.4	0.1	1.3	0.8	1.1
2005	6,693	4,989	3,918	1,539	2,011	486	206	331	20,177
2006	6,743	5,061	4,008	1,553	2,051	489	209	335	20,451
2007	6,834	5,154	4,111	1,571	2,106	493	214	343	20,828
2008	6,943	5,256	4,220	1,589	2,172	499	220	348	21,249
2009	7,054	5,372	4,329	1,609	2,240	504	226	355	21,692
2010	7,144	5,461	4,405	1,627	2,291	509	230	362	22,032
2011	7,219	5,538	4,477	1,640	2,353	511	231	368	22,340
2012	7,307	5,633	4,568	1,656	2,438	512	236	375	22,728
2013	7,409	5,735	4,652	1,670	2,519	513	243	381	23,126
2014	7,518	5,842	4,722	1,686	2,573	515	245	386	23,491
<i>Ave. trend change p.a. (%)</i>	1.3	1.8	2.1	1.0	2.9	0.7	2.0	1.8	1.7

<sup>a</sup> Australian total includes other territories.

Source Australian Bureau of Statistics 2014

**Table 5.8**      **Population (000s) by age group 1985 – 2014 (June)**

	<i>0-16 years</i>	<i>17-25 years</i>	<i>26-39 years</i>	<i>40-64 years</i>	<i>65-74 years</i>	<i>≥ 75 years</i>	<i>All<sup>a</sup></i>
1985	4,264	2,384	3,531	3,988	1,011	610	15,788
1986	4,263	2,400	3,605	4,068	1,043	639	16,018
1987	4,267	2,413	3,654	4,191	1,075	664	16,264
1988	4,263	2,448	3,726	4,304	1,102	690	16,532
1989	4,269	2,484	3,799	4,416	1,128	719	16,814
1990	4,284	2,501	3,859	4,527	1,151	743	17,065
1991	4,302	2,512	3,886	4,633	1,182	769	17,284
1992	4,318	2,511	3,918	4,730	1,209	793	17,479
1993	4,331	2,499	3,925	4,827	1,237	816	17,635
1994	4,349	2,485	3,936	4,935	1,264	835	17,805
<i>Ave. trend change p.a. (%)</i>	0.2	0.6	1.3	2.4	2.5	3.6	1.4
1995	4,376	2,468	3,966	5,052	1,277	866	18,005
1996	4,404	2,453	3,997	5,179	1,289	903	18,225
1997	4,423	2,402	4,040	5,321	1,294	943	18,423
1998	4,437	2,356	4,067	5,469	1,297	982	18,608
1999	4,455	2,334	4,082	5,619	1,300	1,022	18,812
2000	4,473	2,334	4,084	5,774	1,302	1,062	19,029
2001	4,497	2,354	4,073	5,931	1,312	1,107	19,275
2002	4,503	2,389	4,061	6,077	1,325	1,141	19,495
2003	4,508	2,434	4,048	6,219	1,337	1,175	19,721
2004	4,516	2,473	4,039	6,347	1,353	1,205	19,933
<i>Ave. trend change p.a. (%)</i>	0.4	0.0	0.2	2.6	0.6	3.8	1.1
2005	4,536	2,514	4,050	6,466	1,374	1,238	20,177
2006	4,565	2,563	4,080	6,579	1,397	1,267	20,451
2007	4,612	2,634	4,148	6,697	1,441	1,296	20,828
2008	4,667	2,720	4,235	6,821	1,485	1,320	21,249
2009	4,726	2,800	4,334	6,941	1,546	1,344	21,692
2010	4,771	2,824	4,395	7,055	1,613	1,373	22,032
2011	4,805	2,825	4,437	7,185	1,682	1,406	22,340
2012	4,871	2,848	4,510	7,282	1,779	1,439	22,728
2013	4,941	2,876	4,595	7,376	1,863	1,474	23,126
2014	4,994	2,904	4,676	7,461	1,939	1,517	23,491
<i>Ave. trend change p.a. (%)</i>	1.1	1.6	1.6	1.6	4.1	2.2	1.7

<sup>a</sup> Includes those with unstated or unknown age.

**Table 5.9 Motor vehicles on register by vehicle type 1985 – 2014**

	<i>Passenger vehicle</i>	<i>Light commercial</i>	<i>Motorcycle</i>	<i>Heavy rigid truck</i>	<i>Articulated truck</i>	<i>Bus</i>	<i>Total</i>
1985	6,842,500	1,167,200	389,200	544,800	49,200	76,900	9,118,300
1986	6,985,400	1,190,200	374,500	555,500	50,300	85,000	9,290,500
1987	7,072,800	1,198,400	351,000	559,800	49,700	89,100	9,373,700
1988	7,243,600	1,204,900	323,300	576,200	51,200	92,800	9,544,400
1989	7,442,200	1,246,700	316,600	600,800	51,300	96,200	9,806,100
1990	7,672,300	1,280,400	304,000	618,000	50,800	99,200	10,080,600
1991	7,734,100	1,438,000	284,600	334,900	51,100	49,400	9,934,100
1992	7,913,200	1,510,300	292,400	379,100	50,700	52,700	10,246,900
1993	8,050,000	1,548,700	291,700	388,500	51,000	54,900	10,431,500
1994	8,208,800	1,632,700	291,800	407,800	53,200	57,400	10,699,200
1995	8,628,806	1,527,212	296,628	337,421	58,322	52,170	10,947,530
1996	8,989,100	1,601,600	303,900	268,198	58,352	58,800	11,401,100
1997	9,206,200	1,632,200	313,100	270,281	59,300	61,100	11,664,393
1998	9,526,700	1,686,400	328,800	275,566	62,300	64,100	12,066,857
1999	9,686,300	1,721,200	333,800	273,554	63,300	65,900	12,268,579
2000	-	-	-	-	-	-	-
2001	9,835,884	1,769,583	350,930	267,263	62,597	67,572	12,476,767
2002	10,101,441	1,819,993	370,982	267,222	63,905	70,196	12,821,961
2003	10,365,941	1,879,755	377,271	270,194	64,261	70,122	13,162,959
2004	10,629,401	1,952,500	396,300	274,400	66,300	71,300	13,533,100
2005	10,896,410	2,030,254	421,923	279,752	69,723	72,620	13,920,105
2006	11,188,880	2,114,333	463,057	288,094	71,680	75,375	14,358,684
2007	11,466,560	2,190,131	512,428	294,922	74,452	77,562	14,780,210
2008	11,803,536	2,288,216	567,569	305,184	79,132	80,581	15,296,542
2009	12,023,098	2,371,082	624,090	310,939	81,217	84,413	15,674,436
2010	12,269,305	2,460,568	660,107	315,435	82,436	86,367	16,061,098
2011	12,474,044	2,530,630	678,790	318,223	85,965	87,883	16,368,383
2012	12,714,235	2,617,799	709,288	322,115	87,995	90,599	16,741,644
2013	13,000,021	2,717,673	744,732	325,998	90,904	93,034	17,180,596
2014	13,297,260	2,824,052	780,174	329,464	93,853	94,131	17,633,493
<i>Ave. trend change p.a. (%)</i>	2.2	3.7	6.9	1.8	3.4	3.0	2.6

**Notes** The Australian vehicle classification was revised in the 1991 Motor Vehicle Census. Under the new classification, only freight-carrying vehicles with a gross vehicle mass (GVM) greater than 3.5 tonnes are classified as rigid or articulated trucks and freight-carrying vehicles with a GVM of less than or equal to 3.5 tonnes were classified as light commercial vehicles (LCVs). Hence the series for rigid trucks and light commercial vehicles contain breaks between 1990 and 1991.

During 1995 and 1996, the State/Territory jurisdictions introduced the National Heavy Vehicle Registration Scheme. Using data from this scheme resulted in improved accuracy for counts of registrations of articulated and rigid trucks but its introduction caused some fluctuations in the data for the period 1991 through 1996.

The introduction of unique Vehicle Identification Numbers (VINs) by motor vehicle authorities from July 1990 onwards resulted in re-classification of microbuses in some jurisdictions. The effect was a reduction in registered buses and an increase in registered passenger vehicles between 1990 and 1991. This results in a series break for buses.

**Sources** Australian Road Deaths Database; Australian Bureau of Statistics 2014b

**Table 5.10      Hospitalised injuries 2001 – 2011**

	<i>Australia</i>
2001	27,482
2002	27,958
2003	28,446
2004	28,886
2005	30,597
2006	32,288
2007	32,552
2008	33,524
2009	33,692
2010	32,775
2011	34,082
2012 <sup>a</sup>	34,091

a      2012 calendar year data is not directly comparable with previous years due to a break in the hospitalised injury series in 2012.  
See note on Table 1.9, p. 17.

Sources      National Injury Surveillance Unit, unpublished, hospitalised injury series.

# Glossary

The following definitions are general explanations only. The precise definitions vary across the organisations that provide the source data. These differences may result in minor inconsistencies between jurisdictions for some variables.

Road deaths from recent months are preliminary and subject to revision.

<i>Articulated truck</i>	A motor vehicle primarily for load carrying, consisting of a prime mover that has no significant load carrying area but with a turntable device which can be linked to one or more trailers.
<i>BAC</i>	Blood alcohol concentration (BAC) refers to the amount of alcohol present in the bloodstream.
<i>Bus</i>	A motor vehicle constructed for the carriage of passengers which has at least 10 seats, including the driver's seat.
<i>Counterpart</i>	The other vehicle or object that collides with the mode of transport of an injured person.
<i>Crash</i>	Any apparently unpremeditated event reported to police, or other relevant authority, and resulting in death, injury or property damage attributable to the movement of a road vehicle on a public road.
<i>Fatal crash</i>	A crash for which there is at least one death.
<i>Fatal crash involving heavy vehicles</i>	Road traffic crashes in which one or more heavy vehicles were involved (articulated truck, heavy rigid truck or bus).
<i>Gross Vehicle Mass (GVM)</i>	Tare weight (i.e. unladen weight) of the motor vehicle plus its maximum carrying capacity excluding trailers.
<i>Heavy rigid truck</i>	A motor vehicle of GVM greater than 4.5 tonnes constructed with a load carrying area. Includes a rigid truck with a tow bar, draw bar or other non-articulated coupling on the rear of the vehicle.
<i>High threat to life injury</i>	'High threat to life' serious injury cases are a subset of all serious injury cases, referred to also as 'life-threatening' injuries. They are selected on the basis of having an ICD Injury severity Score (ICISS) of less than 0.941. See Henley and Harrison 2012 for definition and discussion.
<i>Older driver/motorcycle rider</i>	A person driving a motor vehicle or riding a motorcycle (excluding passengers) aged 65 years and over.



<i>Road death or fatality</i>	A person who dies within 30 days of a crash as a result of injuries received in that crash.
<i>Trend estimation</i>	In this report, the figures for the 'average trend change p.a.(%)' are calculated by fitting an exponential trend line to the last ten data points. The Excel function LOGEST performs the fit. The resulting trend line represents a constant annual percent change over the period. Notes: (i) The occurrence of a zero in the original series precludes trend estimation by this method; (ii) When fitted to a series containing small numbers, the result may not be a reliable indicator of a stable trend.
<i>Young driver/motorcycle rider</i>	A person driving a motor vehicle or riding a motorcycle (excluding passengers) aged between 17 and 25 years inclusive.

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