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Bureau of Infrastructure and Transport Research Economics

STATISTICAL REPORT

bitre
Safety

Road trauma Australia
2021 statistical summary

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Bureau of Infrastructure and Transport Research Economics (BITRE)
Department of Infrastructure, Transport, Regional Development and Communications
GPO Box 501, Canberra ACT 2601, Australia
Telephone: (international) +61 2 6274 7210
Email: roadsafety@infrastructure.gov.au
Website: www.bitre.gov.au

Bureau of Infrastructure and Transport Research Economics

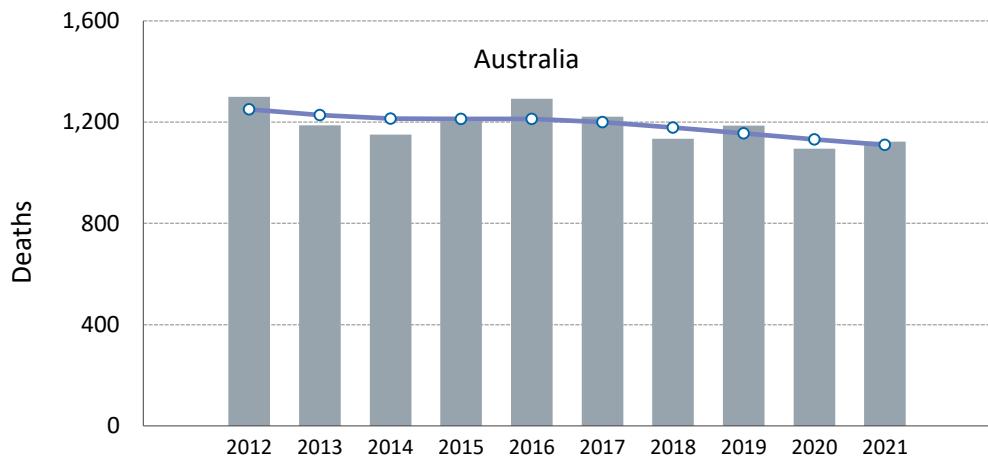
Road trauma Australia 2021 statistical summary

Department of Infrastructure, Transport, Regional Development and Communications
Canberra, Australia

At a glance

This report is the latest in the BITRE series of annual road crash statistical reports. It presents annual counts of road deaths, injuries and standardised rates.

Figure I Deaths by jurisdiction, with trends



Reduction over the Decade

In 2021, there were 1,123 road crash deaths. This is an increase of 2.6 per cent from 2020. Over the decade, fatalities decreased from approximately 1,300 per year to 1,100 per year. The trend was not consistent but the total reduction amounted to 13.6 per cent.

The reduction in fatality rates per population were greater than in annual counts of deaths. The rate of annual fatalities per 100,000 population declined by a total of 23.7 per cent over the decade.

In contrast to the decline in road deaths, hospitalised injuries (HI) have increased. Between 2012 and 2018 (the latest available) the total increase amounted to 16.2 per cent. A quarter of people who were hospitalised had High Threat To Life (HTTL) injuries.

Road deaths of vehicle occupants (driver and passenger) have declined faster than for deaths of vulnerable road users (pedestrian, motorcyclist and cyclist). The total reduction over the decade for vehicle occupants was 18.5 per cent, whereas for vulnerable road users annual deaths decreased by a total of 4.5 per cent.

For road user categorisation, hospitalised injuries again show a different pattern than deaths: firstly, vulnerable road users account for a greater share of hospitalised injuries (47 per cent) than they do for deaths (36 per cent), and; secondly, annual HI counts of vehicle occupants are increasing faster than that for vulnerable road users.

Age specific rates per population show declines for all age groups. The two groups 17-25 years and ≥65 years remain well above the national average.

Zones with a posted speed limit of ≤50 km/h account for approximately 13 per cent of all deaths. Over the decade total annual deaths in these zones have declined by a total of 11 per cent. Annual deaths in higher speed zones also have declined over the decade. For 60-70km/h zones (74 per cent of which are 60km/h), annual deaths have also declined by a total of 11 per cent. For zones 80km/h and over, annual deaths have declined by 2 per cent.

Approximately two thirds of road deaths occur in regional and remote areas, and one third occur in a Major City area. However when categorising hospitalised injuries from road crashes, these proportions are reversed: two thirds occur in Major City areas and one third in regional or remote areas.

Exposure data – Population, Registrations and VKT

The Australian population increased by 13.2 per cent over the decade. The population of Major Cities (growth of 15.6 per cent) increased faster than regional areas (8.4 per cent) and remote areas (-4.6 per cent).

Over the decade, vehicle registrations increased by 20.3 per cent. Motorcycle registrations increased faster than that of four-wheeled vehicles. All jurisdictions saw significant increases in vehicle registrations.

Estimated VKT increased by 5.8 per cent over the decade. Motorcycle VKT decreased by 2.8 per cent and four-wheeled vehicle VKT increased by 5.9 per cent.

Data Sources

The tables on fatal road crashes presented in this report are based on two databases: the Australian Road Deaths Database (ARDD) and the National Crash Database (NCD).

The scope of the ARDD is all fatal road crashes in Australia. It comprises basic demographic and crash information only. It is updated each month. The tables in this report that present fatal crash data for 2012-2021 are based on the ARDD (refer to table source). The database is available at <https://www.bitre.gov.au/statistics/safety/fatal_road_crash_database> and at <<https://data.gov.au/>>.

The scope of the National Crash Database is all fatal and injury crashes across Australia, and at present it covers the years 2008 to 2020. The NCD contains greater detail than the ARDD, but is updated only annually. The NCD is the source for formal reporting on progress against the National Road Safety Strategy 2020. The tables in this report that present fatal crash data for 2012-2020 are based on the NCD (refer to table source).

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 AIHW (2016) for information regarding inclusion criteria for traffic crash hospitalised injuries.

Acknowledgements

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Department of Transport, Victoria;
Department of Transport and Main Roads, Queensland;
Department of Planning, Transport and Infrastructure, South Australia;
Western Australian Police;
Main Roads Western Australia;
Department of State Growth, Tasmania;
Department of Infrastructure, Planning and Logistics, Northern Territory;
Transport Canberra and City Services Directorate, Australian Capital Territory.

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Section I

TRAUMA

Table I.1 Deaths by jurisdiction

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	369	282	280	94	183	31	49	12	1,300
2013	333	243	271	98	162	36	37	7	1,187
2014	307	248	223	108	183	33	39	10	1,151
2015	350	252	243	102	159	34	49	15	1,204
2016	380	290	251	86	193	37	45	10	1,292
2017	389	259	247	100	159	32	31	5	1,222
2018	347	213	245	80	158	32	50	9	1,134
2019	353	266	219	114	163	29	36	6	1,186
2020	284	211	278	93	154	37	31	7	1,095
2021	271	232	274	99	166	35	35	11	1,123
% change 2020-2021	-4.6	10.0	-1.4	6.5	7.8	-5.4	12.9	57.1	2.6
Ave. trend change p.a. (%)	-1.9	-1.8	-0.1	-0.1	-1.2	0.2	-3.0	-3.3	-1.2
Source	Australian Road Deaths Database								

Figure I.1 Deaths by jurisdiction, with trends

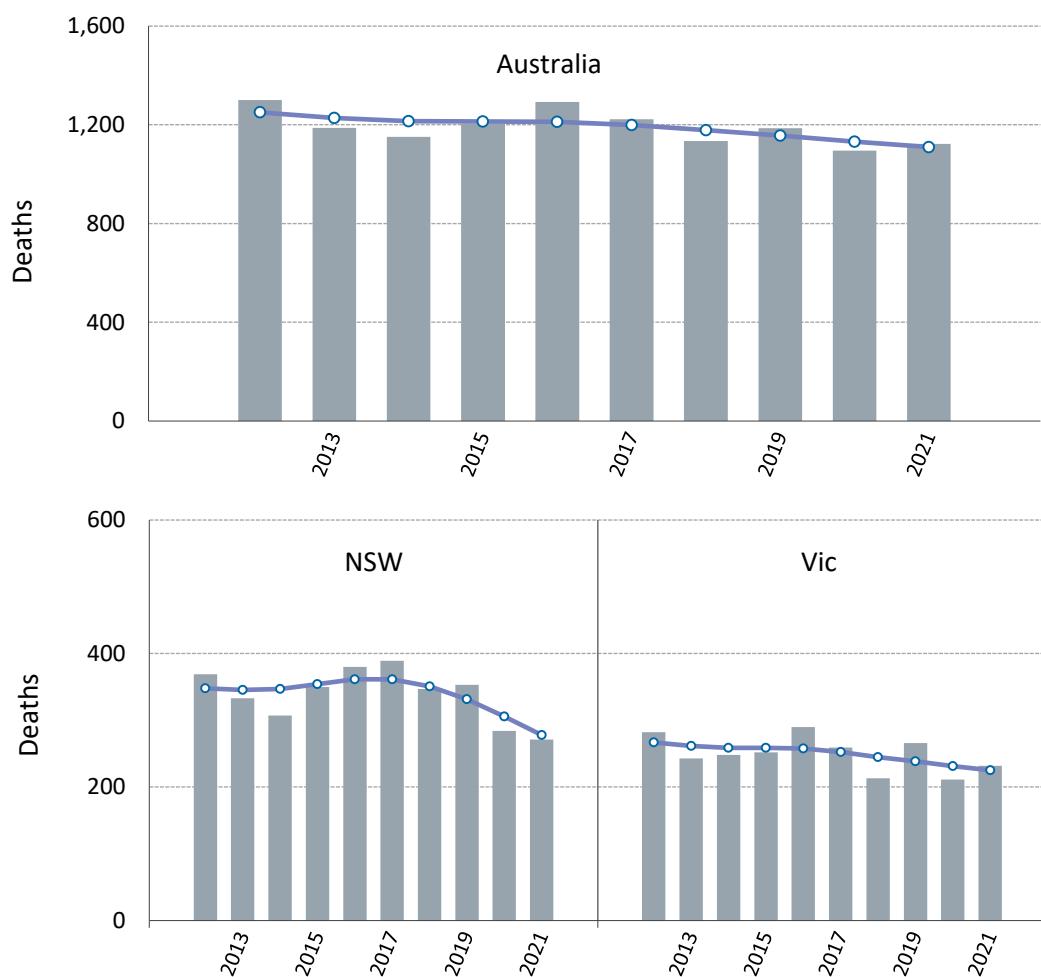


Figure 1.1**Deaths by jurisdiction, with trends (continued)**

Source

Australian Road Deaths Database

Table 1.2
Deaths by road user

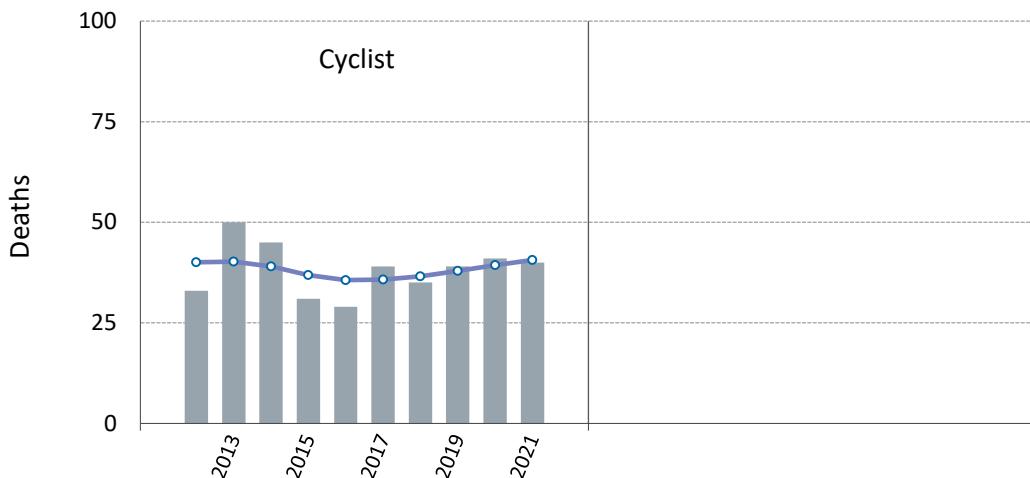
	Driver	Passenger	Pedestrian	Motorcyclist ^a	Cyclist ^a	Total ^b
2012	610	260	170	223	33	1,300
2013	557	204	158	213	50	1,187
2014	533	228	151	191	45	1,151
2015	555	251	161	203	31	1,204
2016	622	208	182	249	29	1,292
2017	566	235	161	211	39	1,222
2018	521	204	177	191	35	1,134
2019	570	205	159	210	39	1,186
2020	534	189	138	188	41	1,095
2021	528	181	132	235	40	1,123
% change 2020-2021	-1.1	-4.2	-4.3	25.0	-2.4	2.6
Ave. trend change p.a. (%)	-0.9	-2.9	-1.7	-0.2	0.2	-1.2

a Includes billion passengers.

b Includes cases where road user type is unknown.

Source Australian Road Deaths Database

Figure 1.2
Deaths by road user, with trends

Figure 1.2**Deaths by road user, with trends (continued)**

Source Australian Road Deaths Database

Table 1.3**Deaths by age group**

	0–7 years	8–16 years	17–25 years	26–39 years	40–64 years	65–74 years	≥ 75 years	Total ^a
2012	25	45	284	300	400	96	149	1,300
2013	31	35	230	243	374	118	156	1,187
2014	36	29	235	251	359	109	130	1,151
2015	20	45	225	272	373	118	151	1,204
2016	24	36	265	290	411	103	163	1,292
2017	22	27	244	237	391	120	181	1,222
2018	14	38	225	257	353	114	129	1,134
2019	19	28	238	256	372	105	168	1,186
2020	17	38	207	290	331	76	132	1,095
2021	22	43	211	241	353	113	134	1,123
% change 2020–2021	29.4	13.2	1.9	-16.9	6.6	48.7	1.5	2.6
Ave. trend change p.a. (%)	-5.7	-0.5	-2.1	-0.6	-1.2	-1.1	-0.7	-1.2

a Includes cases where age is unknown.

Source Australian Road Deaths Database

Figure 1.3 Deaths by age group, with trends

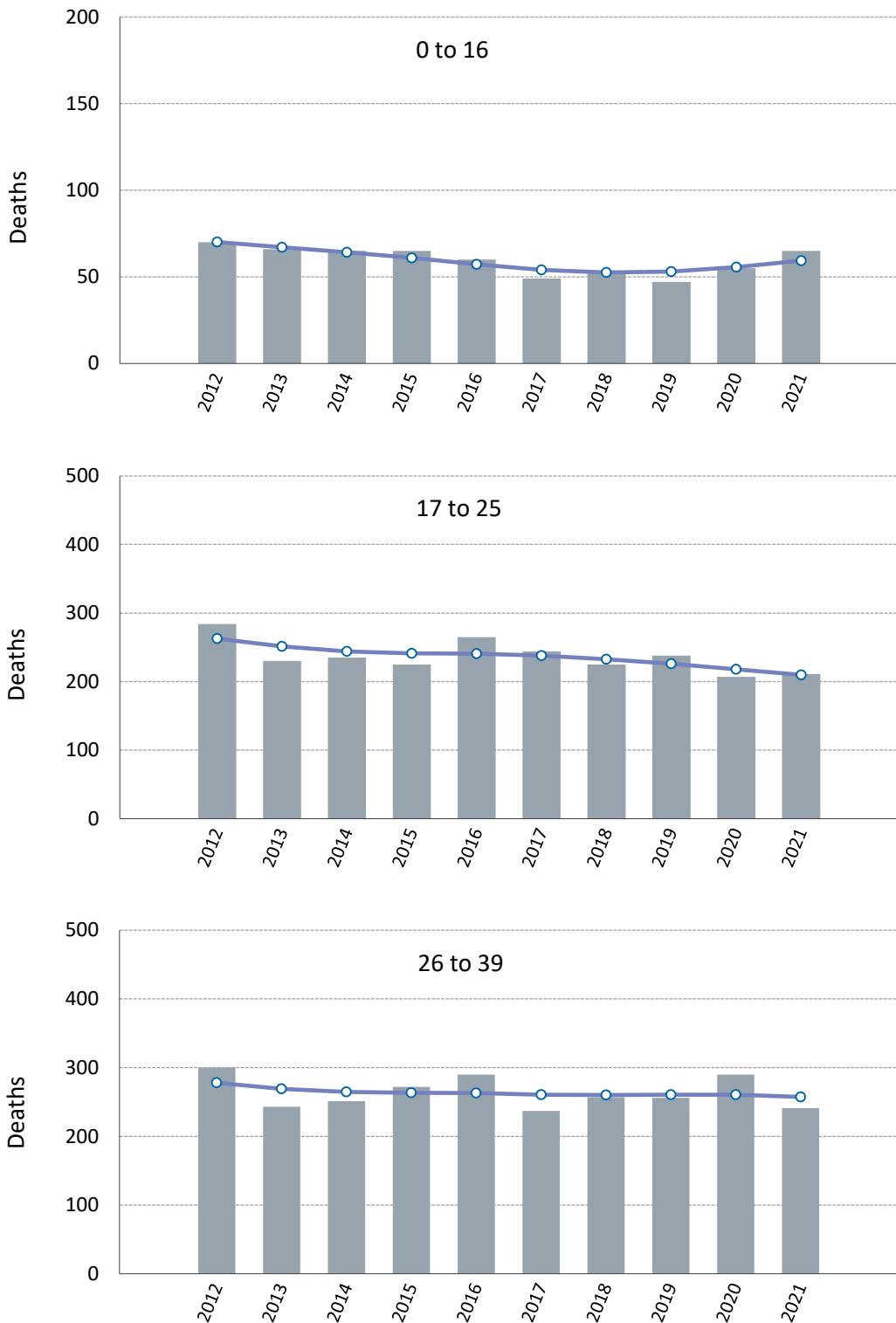


Figure 1.3 Deaths by age group, with trends (continued)



Source

Australian Road Deaths Database

Table 1.4
Deaths by gender

	<i>Male</i>	<i>Female</i>	<i>Total^a</i>
2012	931	369	1,300
2013	852	334	1,187
2014	819	331	1,151
2015	866	338	1,204
2016	954	337	1,292
2017	898	324	1,222
2018	841	292	1,134
2019	905	281	1,186
2020	792	299	1,095
2021	848	272	1,123
% change 2020-2021	7.1	-9.0	2.6
Ave. trend change p.a. (%)	-0.6	-2.9	-1.2

^a Includes cases where gender is unspecified or unknown.

Source Australian Road Deaths Database

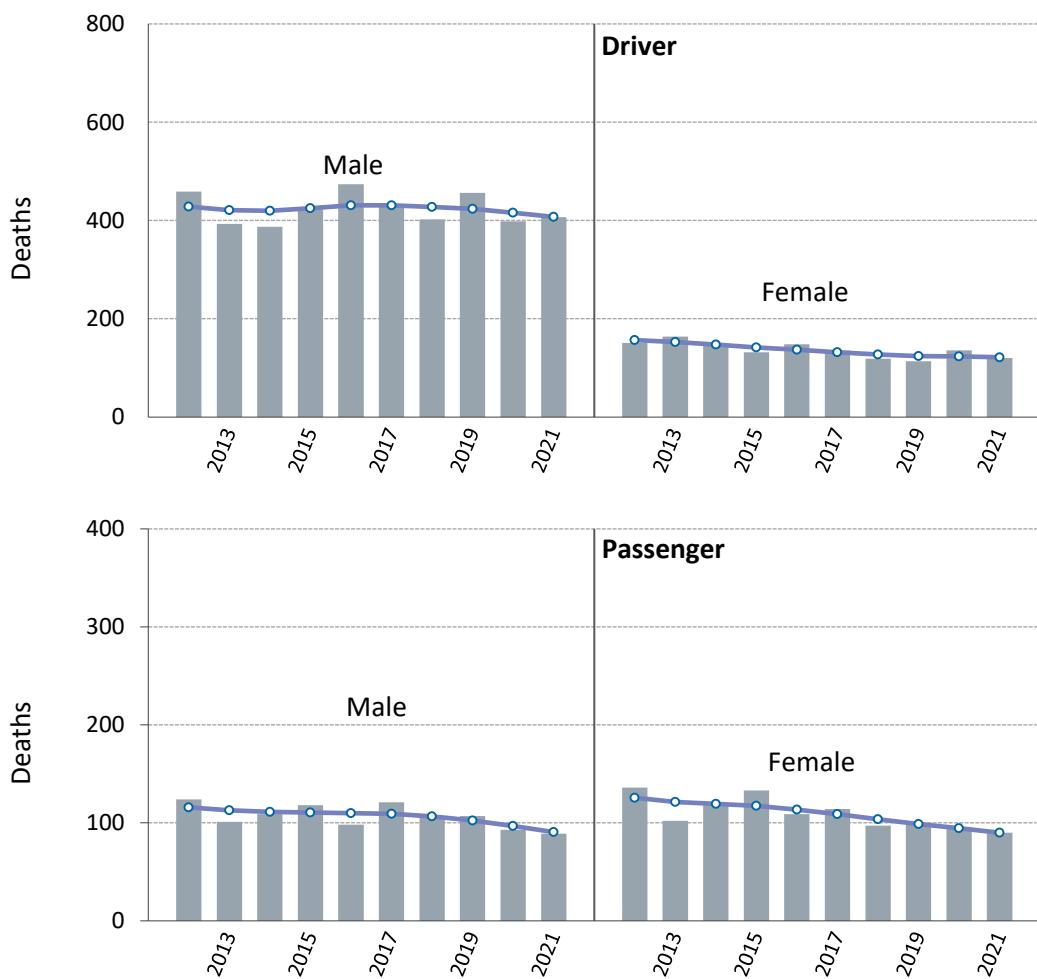
Figure 1.4
Deaths by gender and road user, with trends

Figure 1.4 Deaths by gender and road user, with trends (continued)

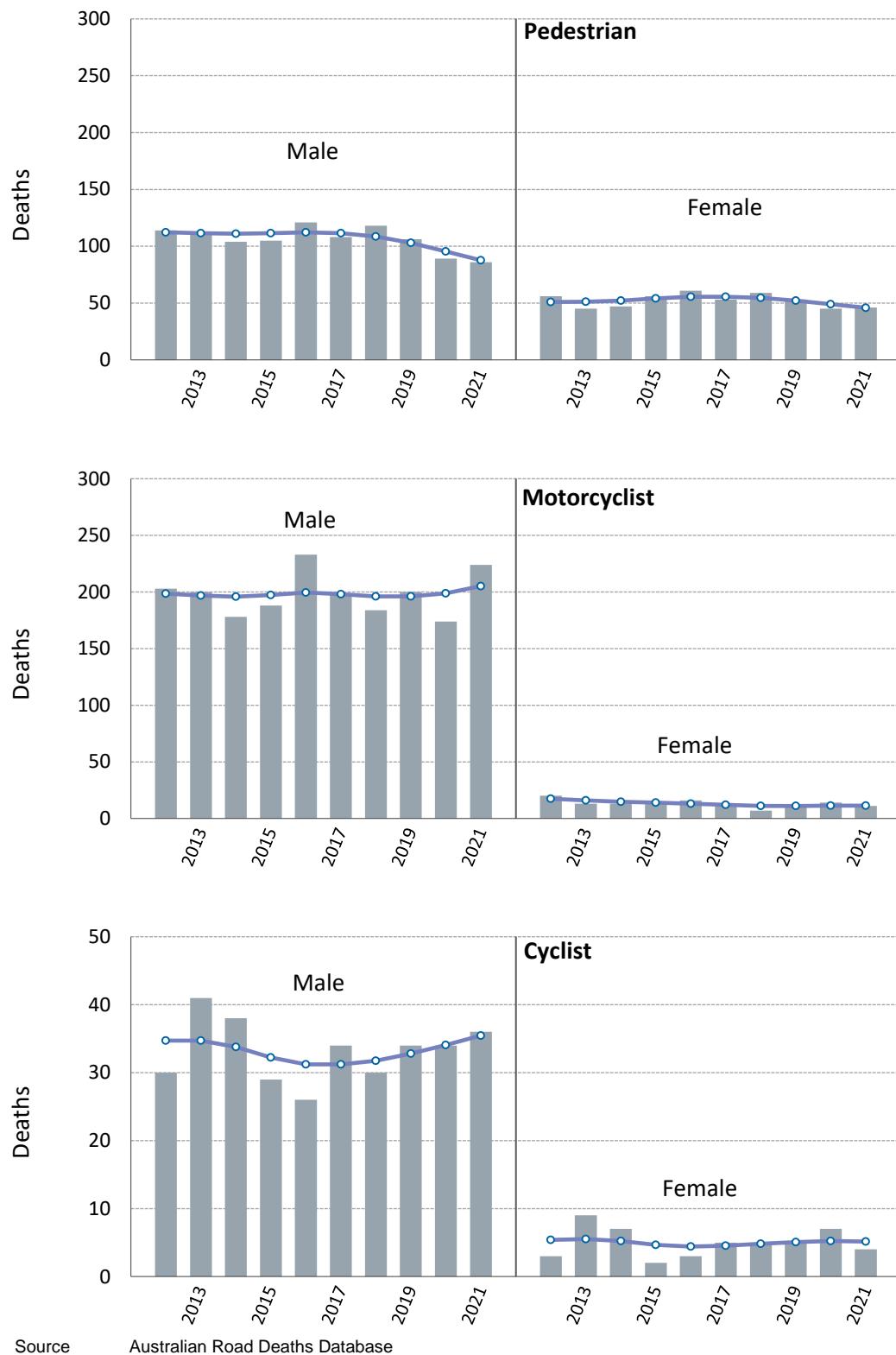


Table 1.5 Deaths by jurisdiction and road user

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
All road users^a									
2012	369	282	280	94	183	31	49	12	1,300
2013	333	243	271	98	162	36	37	7	1,187
2014	307	248	223	108	183	33	39	10	1,151
2015	350	252	243	102	159	34	49	15	1,204
2016	380	290	251	86	193	37	45	10	1,292
2017	389	259	247	100	159	32	31	5	1,222
2018	347	213	245	80	158	32	50	9	1,134
2019	353	266	219	114	163	29	36	6	1,186
2020	284	211	278	93	154	37	31	7	1,095
2021	271	232	274	99	166	35	35	11	1,123
% change 2020-2021	-4.6	10.0	-1.4	6.5	7.8	-5.4	12.9	57.1	2.6
Ave. trend change p.a. (%)	-1.9	-1.8	-0.1	-0.1	-1.2	0.2	-3.0	-3.3	-1.2
Driver									
2012	164	146	125	52	87	14	19	3	610
2013	155	121	136	50	69	13	11	2	557
2014	153	112	106	52	78	18	10	4	533
2015	155	122	117	52	70	17	14	8	555
2016	183	150	106	41	100	17	19	6	622
2017	186	129	101	46	77	14	11	2	566
2018	158	98	121	41	74	15	12	2	521
2019	166	113	112	60	82	17	16	4	570
2020	135	104	134	47	81	19	11	3	534
2021	130	116	119	46	81	17	13	6	528
% change 2020-2021	-3.7	11.5	-11.2	-2.1	0.0	-10.5	18.2	100.0	-1.1
Ave. trend change p.a. (%)	-1.5	-2.3	-0.1	-0.9	0.4	2.2	-1.2	2.3	-0.9
Passenger									
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	37	9	11	2	228
2015	60	57	47	17	49	3	16	2	251
2016	54	36	38	23	35	6	16	0	208
2017	82	45	52	11	32	4	8	1	235
2018	57	32	41	16	36	5	15	2	204
2019	60	48	37	9	36	2	13	0	205
2020	40	30	49	17	30	7	12	4	189
2021	28	33	62	17	26	6	7	2	181
% change 2020-2021	-30.0	10.0	26.5	0.0	-13.3	-14.3	-41.7	-50.0	-4.2
Ave. trend change p.a. (%)	-5.4	-4.6	-1.3	-2.4	-1.9	-1.4	-1.7	-	-2.9

Table 1.5 Deaths by jurisdiction and road user (continued)

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Pedestrian									
2012	55	35	27	9	24	6	10	4	170
2013	44	36	21	13	31	3	9	1	158
2014	41	46	19	17	16	3	8	1	151
2015	61	33	21	18	14	3	11	0	161
2016	71	40	37	9	14	4	6	1	182
2017	54	30	35	17	14	2	9	0	161
2018	69	37	35	6	14	3	11	2	177
2019	45	49	18	21	17	3	4	2	159
2020	48	29	34	8	11	5	3	0	138
2021	42	28	18	14	19	2	7	2	132
% change 2020-2021	-12.5	-3.4	-47.1	75.0	72.7	-60.0	133.3	-	-4.3
Ave. trend change p.a. (%)	-0.8	-1.9	0.6	-0.6	-5.3	-4.2	-8.1	-	-1.7
Motorcyclist^b									
2012	61	41	60	15	34	5	4	3	223
2013	71	41	45	12	25	11	6	2	213
2014	59	30	37	11	43	3	6	2	191
2015	67	30	54	11	21	10	6	4	203
2016	67	56	62	8	39	10	4	3	249
2017	59	38	50	24	25	11	3	1	211
2018	54	38	43	10	28	8	8	2	191
2019	68	43	45	17	27	7	3	0	210
2020	48	32	54	19	26	6	3	0	188
2021	62	42	66	17	34	9	5	0	235
% change 2020-2021	29.2	31.3	22.2	-10.5	30.8	50.0	66.7	0.0	25.0
Ave. trend change p.a. (%)	-1.6	0.4	1.4	4.5	-1.0	2.9	-3.4	-	-0.2
Cyclist^b									
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
2015	7	10	4	4	4	1	0	1	31
2016	5	8	8	5	3	0	0	0	29
2017	8	12	8	2	7	1	0	1	39
2018	9	7	5	7	5	1	0	1	35
2019	14	11	6	7	1	0	0	0	39
2020	13	13	7	2	5	0	1	0	41
2021	9	10	9	5	4	1	1	1	40
% change 2020-2021	-30.8	-23.1	28.6	150.0	-20.0	-	0.0	-	-2.4
Ave. trend change p.a. (%)	2.6	5.2	-3.9	1.1	-4.8	-	-	-	0.2

a Includes cases where road user type is unknown.

b Includes pillion passengers.

Source Australian Road Deaths Database

Table 1.6
Deaths by jurisdiction and age group

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
0–16 years									
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
2015	20	14	8	6	15	0	1	1	65
2016	18	8	8	5	13	4	4	0	60
2017	19	8	6	3	8	3	2	0	49
2018	11	9	13	4	10	0	3	2	52
2019	9	10	14	4	7	0	3	0	47
2020	15	7	15	4	8	3	2	1	55
2021	17	13	14	4	12	2	3	0	65
% change 2020-2021	13.3	85.7	-6.7	0.0	50.0	-33.3	50.0	-100.0	18.2
Ave. trend change p.a. (%)	-2.4	-2.6	-1.4	-5.2	-2.9	-	1.1	-	-2.7
17–25 years									
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	42	3	6	4	235
2015	55	49	46	15	36	10	11	3	225
2016	79	50	52	16	50	7	7	4	265
2017	79	50	49	22	31	3	8	2	244
2018	78	29	52	18	29	11	7	1	225
2019	61	53	55	22	33	7	7	0	238
2020	53	33	53	23	30	4	10	1	207
2021	53	37	52	21	37	7	1	3	211
% change 2020-2021	0.0	12.1	-1.9	-8.7	23.3	75.0	-90.0	200.0	1.9
Ave. trend change p.a. (%)	-3.5	-4.4	-1.4	4.2	-1.5	5.3	-6.7	-	-2.1
26–39 years									
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	3	251
2015	62	54	65	20	40	8	20	3	272
2016	72	64	54	19	56	8	15	2	290
2017	73	51	52	16	28	5	10	2	237
2018	68	56	51	12	44	5	18	3	257
2019	68	53	50	24	35	5	20	1	256
2020	76	60	74	24	39	6	9	2	290
2021	46	50	79	14	31	6	14	1	241
% change 2020-2021	-39.5	-16.7	6.8	-41.7	-20.5	0.0	55.6	-50.0	-16.9
Ave. trend change p.a. (%)	-1.1	-0.2	1.3	2.9	-4.3	0.5	-2.9	-6.2	-0.6

Table I.6 Deaths by jurisdiction and age group (continued)

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
40–64 years									
2012	106	86	85	31	56	12	20	4	400
2013	104	79	89	38	45	8	10	1	374
2014	97	71	75	33	57	12	12	2	359
2015	115	78	70	33	47	11	15	4	373
2016	118	105	84	21	54	11	15	3	411
2017	122	81	84	28	51	15	10	0	391
2018	100	64	84	25	50	10	17	3	353
2019	122	79	62	33	58	9	6	3	372
2020	80	64	87	21	51	19	7	2	331
2021	91	65	82	34	52	11	15	3	353
% change 2020-2021	13.8	1.6	-5.7	61.9	2.0	-42.1	114.3	50.0	6.6
Ave. trend change p.a. (%)	-1.5	-2.6	-0.5	-2.3	0.3	2.4	-5.1	-	-1.2
65–74 years									
2012	35	22	14	7	10	5	2	1	96
2013	33	26	19	9	19	7	5	0	118
2014	33	22	20	15	15	3	0	1	109
2015	47	27	19	10	9	2	2	2	118
2016	40	23	16	9	10	2	3	0	103
2017	44	23	21	13	15	3	1	0	120
2018	40	26	25	9	7	4	3	0	114
2019	39	22	14	12	15	2	0	1	105
2020	23	13	21	4	10	2	2	1	76
2021	32	27	19	13	15	4	2	1	113
% change 2020-2021	39.1	107.7	-9.5	225.0	50.0	100.0	0.0	0.0	48.7
Ave. trend change p.a. (%)	-1.7	-1.9	1.7	-0.7	-0.7	-6.1	-	-	-1.1
≥ 75 years									
2012	49	35	24	20	12	5	2	2	149
2013	43	45	27	20	12	6	0	3	156
2014	43	34	14	14	18	7	0	0	130
2015	51	30	35	18	12	3	0	2	151
2016	53	40	37	16	10	5	1	1	163
2017	52	46	35	18	26	3	0	1	181
2018	50	29	20	12	14	2	2	0	129
2019	54	49	24	19	15	6	0	1	168
2020	37	30	28	17	16	3	1	0	132
2021	32	36	27	13	18	5	0	3	134
% change 2020-2021	-13.5	20.0	-3.6	-23.5	12.5	66.7	-100.0	-	1.5
Ave. trend change p.a. (%)	-2.3	-0.4	1.4	-2.7	3.8	-4.4	-	-	-0.7

Source Australian Road Deaths Database

Table 1.7 Deaths by road user and age group

	<i>Driver</i>	<i>Passenger</i>	<i>Pedestrian</i>	<i>Motorcyclist^a</i>	<i>Cyclist^a</i>	<i>All road users^b</i>
0–16 years						
2012	7	40	15	6	2	70
2013	4	37	13	4	7	66
2014	3	41	17	2	2	65
2015	2	49	11	3	0	65
2016	4	36	12	6	1	60
2017	2	28	14	3	1	49
2018	4	29	14	2	2	52
2019	2	31	9	2	3	47
2020	2	30	15	3	5	55
2021	7	38	16	3	1	65
% change 2020–2021	250.0	26.7	6.7	0.0	-80.0	18.2
Ave. trend change p.a. (%)	-3.3	-3.1	-0.4	-6.0	-	-2.7
17–25 years						
2012	140	73	24	43	3	284
2013	120	52	16	38	4	230
2014	111	58	20	41	3	235
2015	113	64	11	33	4	225
2016	136	56	25	46	1	265
2017	118	57	17	43	6	244
2018	117	51	27	28	1	225
2019	106	59	23	43	6	238
2020	109	54	12	29	1	207
2021	113	33	16	43	5	211
% change 2020–2021	3.7	-38.9	33.3	48.3	400.0	1.9
Ave. trend change p.a. (%)	-1.7	-4.4	-1.6	-1.3	-2.4	-2.1
26–39 years						
2012	152	40	29	70	7	300
2013	111	35	21	64	11	243
2014	123	39	23	57	8	251
2015	132	47	27	60	4	272
2016	164	35	26	63	2	290
2017	125	42	19	48	3	237
2018	119	43	30	57	7	257
2019	133	40	22	56	5	256
2020	151	34	36	60	7	290
2021	128	30	13	69	1	241
% change 2020–2021	-15.2	-11.8	-63.9	15.0	-85.7	-16.9
Ave. trend change p.a. (%)	0.3	-1.7	-2.2	-0.7	-11.9	-0.6

Table 1.7 Deaths by road user and age group (continued)

	<i>Driver</i>	<i>Passenger</i>	<i>Pedestrian</i>	<i>Motorcyclist^a</i>	<i>Cyclist^a</i>	<i>All road users^b</i>
40–64 years						
2012	199	48	46	95	12	400
2013	190	35	43	84	21	374
2014	171	49	43	79	17	359
2015	175	42	45	95	16	373
2016	190	29	60	119	13	411
2017	185	48	46	93	17	391
2018	162	47	45	82	16	353
2019	199	26	39	88	18	372
2020	148	36	41	84	22	331
2021	167	43	30	92	17	353
% change 2020-2021	12.8	19.4	-26.8	9.5	-22.7	6.6
Ave. trend change p.a. (%)	-1.7	-1.9	-2.9	-0.3	2.5	-1.2
65–74 years						
2012	41	23	19	8	5	96
2013	54	18	22	17	6	118
2014	65	12	13	8	11	109
2015	58	21	25	11	3	118
2016	47	18	19	11	8	103
2017	47	23	22	20	8	120
2018	56	12	19	20	6	114
2019	46	20	18	18	3	105
2020	47	8	8	8	4	76
2021	50	10	21	23	9	113
% change 2020-2021	6.4	25.0	162.5	187.5	125.0	48.7
Ave. trend change p.a. (%)	-0.6	-7.0	-3.1	6.7	-1.2	-1.1
≥ 75 years						
2012	71	35	37	1	4	149
2013	78	27	43	6	1	156
2014	59	28	35	4	4	130
2015	75	28	42	1	4	151
2016	81	34	40	4	4	163
2017	89	37	43	4	4	181
2018	61	20	42	2	3	129
2019	84	29	48	3	4	168
2020	77	27	22	4	2	132
2021	61	25	35	5	7	134
% change 2020-2021	-20.8	-7.4	59.1	25.0	250.0	1.5
Ave. trend change p.a. (%)	-0.1	-2.3	-2.1	7.7	5.6	-0.7

a Includes billion passengers.

b Includes cases where road user type is unknown.

Source Australian Road Deaths Database

Table 1.8
Deaths by posted speed limit

	$\leq 40 \text{ km/h}$	50 km/h	60-70 km/h	80-90 km/h	100 km/h	$\geq 110 \text{ km/h}$	Total ^a
2012	24	135	319	233	404	172	1,300
2013	16	134	271	213	406	138	1,187
2014	18	112	264	184	401	161	1,151
2015	20	117	295	216	387	159	1,204
2016	17	139	295	232	408	192	1,292
2017	38	157	280	190	388	160	1,222
2018	18	134	258	180	365	171	1,134
2019	21	135	244	207	383	185	1,186
2020	17	131	240	197	365	139	1,095
2021	17	125	267	168	358	159	1,123
% change 2020-2021	0.0	-4.6	11.3	-14.7	-1.9	14.4	2.6
Ave. trend change p.a. (%)	-0.9	0.4	-2.0	-2.2	-1.4	0.0	-1.2

a Includes cases where posted speed limit is unknown.

Source Australian Road Deaths Database

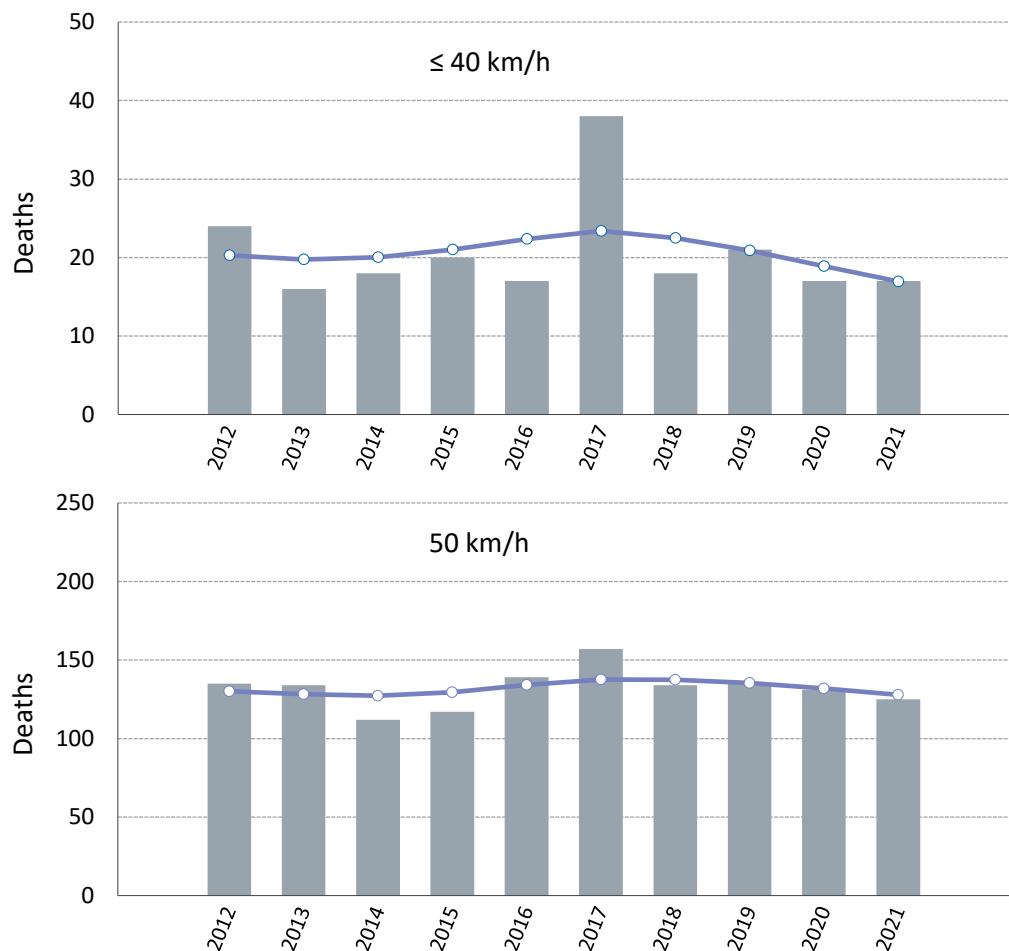
Figure 1.5
Deaths by posted speed limit, with trends

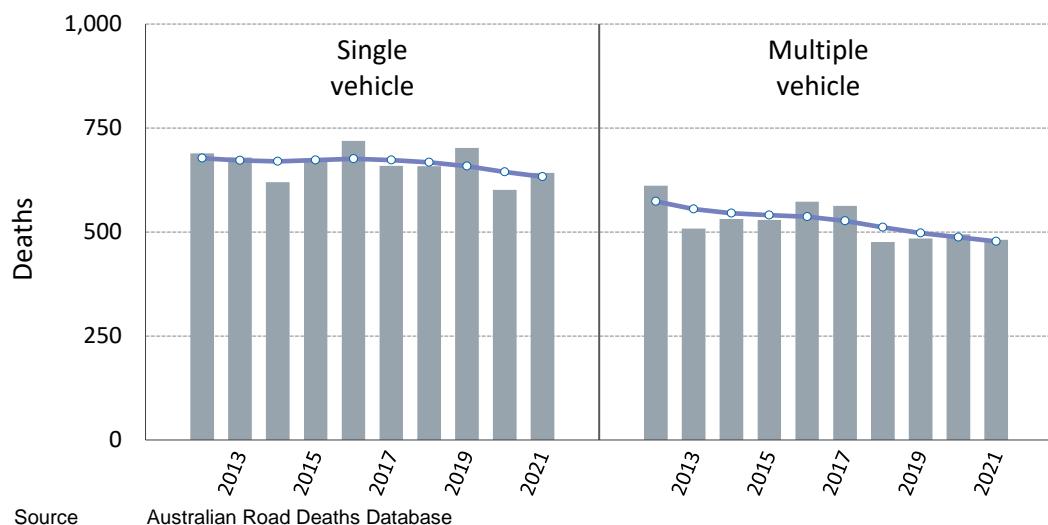
Figure 1.5**Deaths by posted speed limit, with trends (continued)**

Table I.9 Deaths by crash type

	<i>Single vehicle crash</i>	<i>Multiple vehicle crash</i>	<i>Total^a</i>
2012	689	611	1,300
2013	679	508	1,187
2014	620	531	1,151
2015	675	529	1,204
2016	719	573	1,292
2017	659	563	1,222
2018	658	476	1,134
2019	702	484	1,186
2020	601	494	1,095
2021	642	481	1,123
% change 2020-2021	6.8	-2.6	2.6
Ave. trend change p.a. (%)	-0.6	-1.9	-1.2

a Includes cases where the number of vehicles involved is unknown.

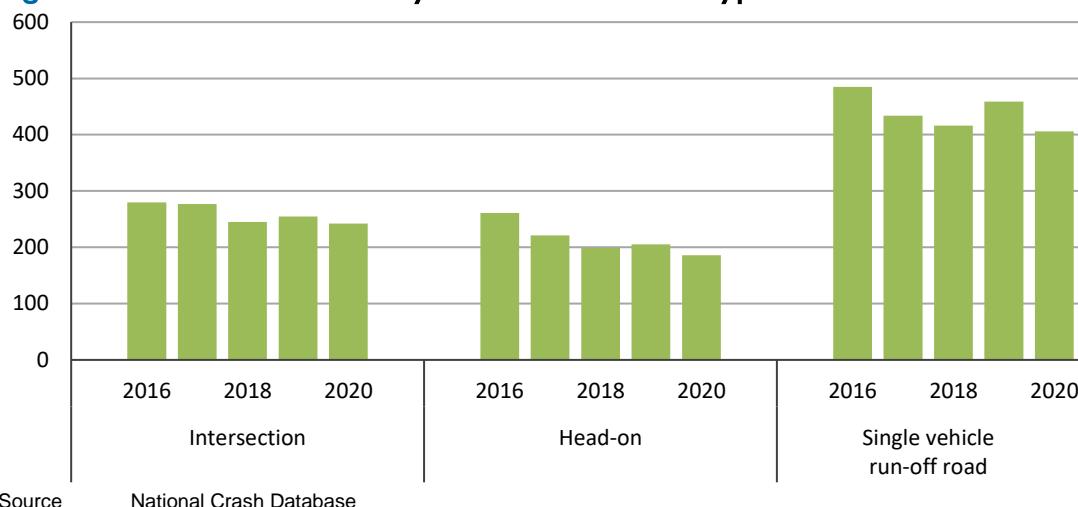
Source Australian Road Deaths Database

Figure I.6 Deaths by crash type, with trends**Table I.10** Deaths by common crash sub-types^a

	<i>Intersection</i>	<i>Head-on</i>	<i>Single vehicle run-off road^b</i>
2012	287	264	463
2013	257	210	447
2014	232	216	412
2015	252	234	420
2016	280	261	485
2017	277	221	434
2018	245	199	416
2019	255	205	459
2020	242	186	406
Ave. trend change p.a. (%)	-0.8	-2.8	-0.1

a Categories not mutually exclusive.

Source National Crash Database

Figure 1.7 Deaths by common crash sub-types**Table 1.11** Deaths by common DCA/RUM^a crash code groups

	Non-collision (Curve)	Non-collision (Straight)	Opposing Directions	Pedestrian	Adjacent Directions	Same Directions	Total ^b
2012	229	279	273	156	82	66	1,300
2013	253	292	238	152	84	70	1,184
2014	218	259	243	146	90	67	1,150
2015	264	243	269	154	92	53	1,205
2016	299	260	294	170	80	77	1,295
2017	276	231	253	154	88	83	1,223
2018	237	242	214	173	79	83	1,135
2019	259	270	238	152	77	74	1,187
2020	230	238	230	125	82	73	1,094
Ave. trend change p.a. (%)	0.5	-1.7	-1.7	-0.9	-0.9	2.4	-1.1

a See Glossary.

b Includes deaths from all DCA/RUM codes.

Source: National Crash Database

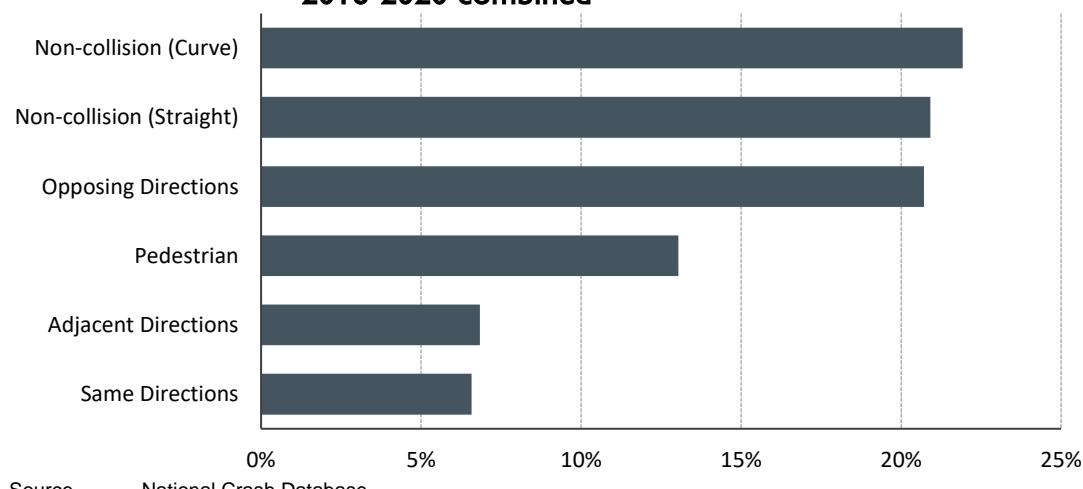
Figure 1.8 Distribution of deaths across common crash DCA/RUM code groups, 2016-2020 combined

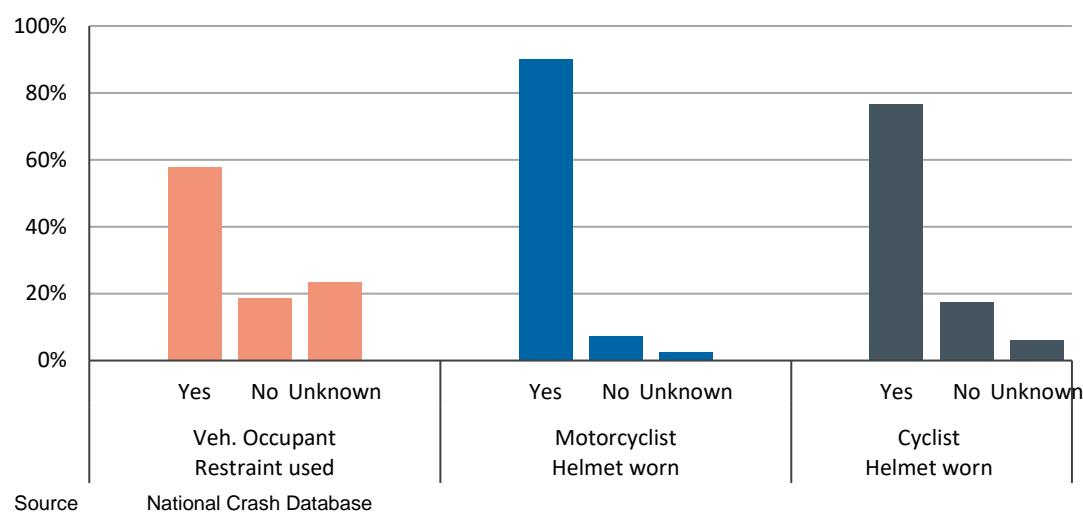
Table 1.12 Safety device wearing rates for killed road users

	<i>Restraint used</i>	<i>Not used</i>	<i>Unknown or not applicable</i>	<i>Total</i>
Vehicle occupant				
2012	510	156	204	870
2013	446	142	169	757
2014	437	160	164	761
2015	484	177	147	808
2016	533	156	142	831
2017	506	133	162	801
2018	426	124	175	725
2019	444	140	189	773
2020	414	154	155	723
Ave. trend change p.a. (%)	-1.4	-1.5	-0.9	-1.3
 Motorcyclist^a				
2012	188	14	19	221
2013	186	21	7	214
2014	172	8	11	191
2015	182	12	7	201
2016	220	21	10	251
2017	186	16	10	212
2018	176	11	4	191
2019	193	14	7	214
2020	167	18	5	190
Ave. trend change p.a. (%)	-0.5	1.2	-11.0	-0.9
 Cyclist^a				
2012	22	9	2	33
2013	38	8	4	50
2014	33	9	2	44
2015	24	3	3	30
2016	22	5	3	30
2017	31	5	3	39
2018	27	5	3	35
2019	33	5	1	39
2020	28	10	3	41
Ave. trend change p.a. (%)	0.7	-2.7	-2.8	-0.1

a Includes billion passengers.

b 'Not applicable' refers to road users who are not required to use the safety device.

Source National Crash Database

Figure 1.9**Safety device wearing rates for killed road users,
2018-2020 combined****Table 1.13****Deaths by validity of operators' licences**

	All operators valid licence	Any operators with invalid licence	Unknown	Total ^a
2012	877	118	129	1,124
2013	808	95	155	1,058
2014	721	95	309	1,125
2015	773	105	308	1,186
2016	811	119	340	1,270
2017	776	99	240	1,115
2018	711	95	166	972
2019	750	96	168	1,014
2020	680	115	154	949
Ave. trend change p.a. (%)	-2.1	-0.2	-0.9	-1.9

a

Total comprises all deaths in crashes that have a vehicle operator.

Note

Excludes Western Australia as licence data is not available.

'Operators' comprises Drivers and Motorcycle riders.

Source

National Crash Database

Table 1.14**Deaths where an operator failed an alcohol test**

	Yes	Total
2012	143	835
2013	149	780
2014	129	720
2015	134	792
2016	140	809
2017	152	804
2018	143	763
2019	134	757
2020	139	728

Ave. trend change p.a. (%)

Note

Excludes Western Australia (licence data not available) and Victoria (alcohol-involvement data not available).

'Operators' comprises drivers and motorcycle riders.

Source

National Crash Database

Figure 1.10 Proportion of deaths that involved an operator failing an alcohol test

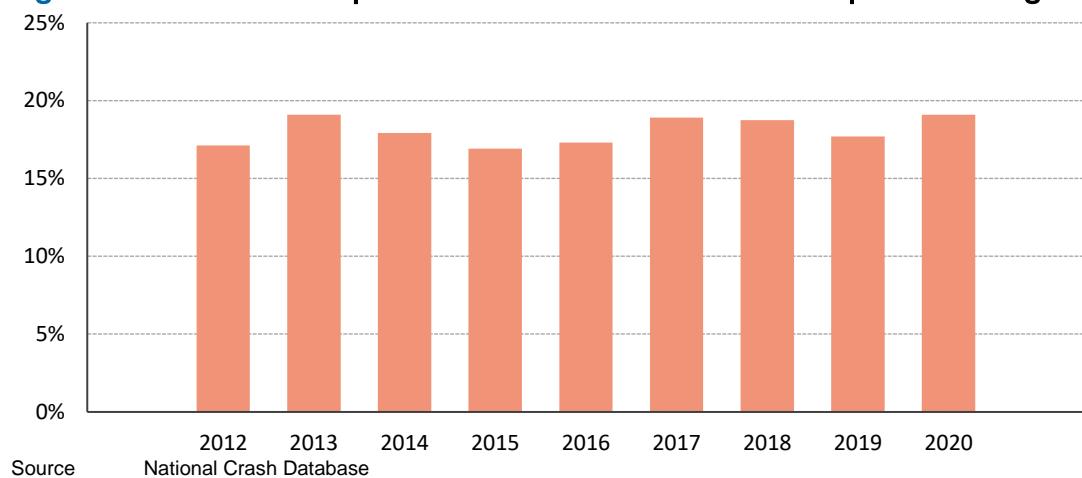


Table 1.15 Deaths by Remoteness Area^a

	Major Cities	Inner Regional	Outer Regional	Remote	Very Remote	Total ^b
2012	454	458	273	45	58	1,300
2013	420	399	236	70	56	1,184
2014	377	392	242	60	67	1,150
2015	413	388	283	61	58	1,205
2016	458	427	290	49	69	1,295
2017	431	413	290	45	37	1,223
2018	394	345	276	59	57	1,135
2019	407	377	279	62	60	1,187
2020	378	357	249	46	61	1,094
Ave. trend change p.a. (%)	-1.2	-2.2	0.7	-1.0	-0.6	-1.1

a See Glossary.
b Includes undetermined Remoteness Area.
Sources ABS 2022c and National Crash Database

Figure 1.11 Deaths by Remoteness Area

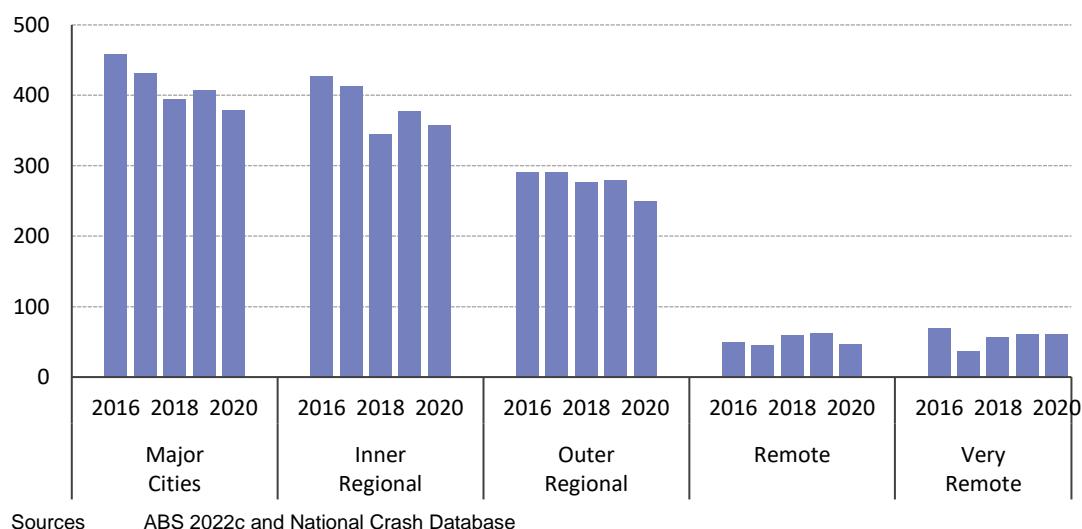


Table 1.16 Deaths by Urban and Non-Urban area^a

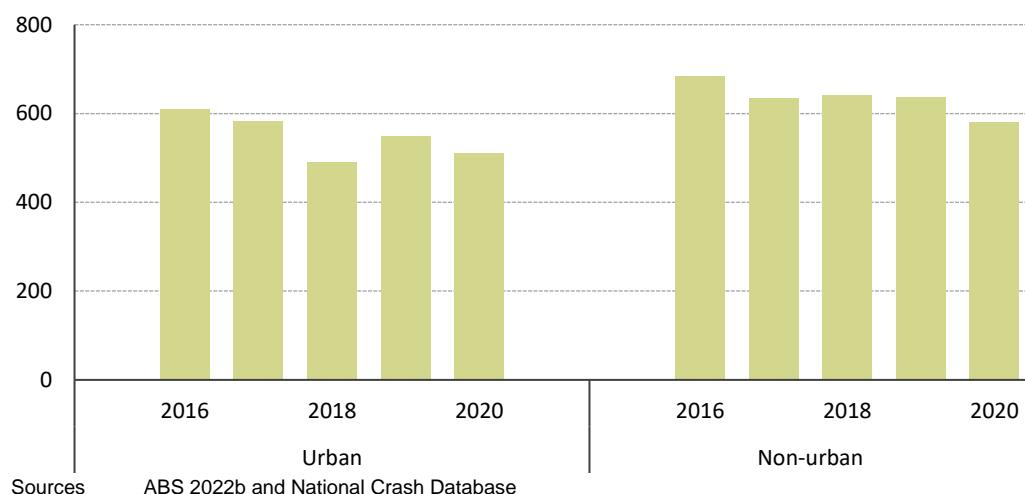
	<i>Urban area</i>	<i>Non-urban area</i>	<i>Total^b</i>
2012	620	668	1,300
2013	541	640	1,184
2014	518	620	1,150
2015	596	607	1,205
2016	609	684	1,295
2017	583	634	1,223
2018	491	641	1,135
2019	549	636	1,187
2020	510	581	1,094

Ave. trend change p.a.(%): -1.4

a See Glossary.

b Includes undetermined Urban Area.

Sources ABS 2022b and National Crash Database

Figure 1.12 Deaths by Urban and Non-Urban area

Sources

ABS 2022b and National Crash Database

Table 1.17 Deaths by road type

	<i>National or State highway</i>	<i>Arterial</i>	<i>Sub-arterial</i>	<i>Collector road^a</i>	<i>Local</i>	<i>Other^b</i>	<i>Total^c</i>
2012	420	314	215	87	235	29	1,300
2013	381	265	176	96	243	23	1,184
2014	342	293	198	78	216	23	1,150
2015	351	319	203	103	217	12	1,205
2016	367	340	232	90	251	15	1,295
2017	338	277	209	106	264	29	1,223
2018	346	260	187	82	224	36	1,135
2019	372	295	169	67	262	22	1,187
2020	319	227	194	85	239	30	1,094

Ave. trend change p.a.(%): -2.0

-2.2

-1.0

-1.7

0.9

3.0

-1.1

a Queensland does not categorise roads with 'Collector road' type.

b Includes Access road, Path, Busway, Pedestrian Thoroughfare and roads of undetermined type.

c Includes deaths in crashes with unknown road type.

Sources Geoscape 2020 and National Crash Database

Figure 1.13 Deaths by road type

Sources Geoscape 2020 and National Crash Database

Table 1.18 Hospitalised injuries – by road user

	<i>Driver</i>	<i>Passenger</i>	<i>Pedestrian</i>	<i>Motorcyclist^a</i>	<i>Cyclist^a</i>	<i>Total^b</i>
2012	11,424	5,067	2,689	7,734	5,623	34,091
2013	11,550	5,131	2,672	8,022	6,269	35,059
2014	11,687	5,015	2,562	8,335	6,642	35,552
2015	12,812	5,275	2,634	8,299	6,718	37,082
2016	13,816	5,485	2,744	8,523	6,905	38,945
2017	13,913	5,466	2,711	8,733	7,077	39,330
2018	14,240	5,570	2,665	8,624	6,960	39,598
2019 ^c	-	-	-	-	-	-
2020 ^c	-	-	-	-	-	-
2021 ^c	-	-	-	-	-	-

a Includes pillion passengers.

b 'Total' includes cases where road user type is unknown.

c Cells with a '-' indicate that data is not available.

Note There were changes made to admission criteria in 2012 and again in 2017. The effects of these changes amounted to a reduction in admissions of approximately 2%-5%. The dashed line represents the break in series.

Source DITRD&C 2021

Table 1.19 Hospitalised injuries – by age group

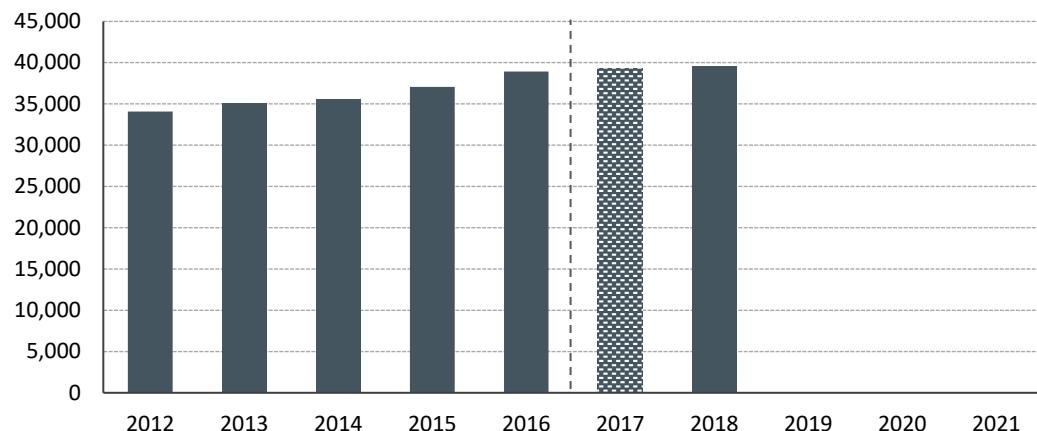
	<i>0–16</i>	<i>17–25</i>	<i>26–39</i>	<i>40–64</i>	<i>65+</i>	<i>Total^a</i>
2012	3,077	8,037	8,252	10,671	4,054	34,091
2013	3,115	7,852	8,472	11,351	4,269	35,059
2014	2,960	7,728	8,666	11,672	4,525	35,552
2015	3,188	7,880	8,975	12,199	4,840	37,082
2016	3,210	8,471	9,449	12,721	5,094	38,945
2017	3,235	8,468	9,508	12,922	5,197	39,330
2018	3,141	8,307	9,731	12,966	5,453	39,598
2019 ^c	-	-	-	-	-	-
2020 ^c	-	-	-	-	-	-
2021 ^c	-	-	-	-	-	-

a 'Total' includes cases where ages are unknown.

b Cells with a '-' indicate that data is not available.

Note There were changes made to admission criteria in 2012 and again in 2017. The effects of these changes amounted to a reduction in admissions of approximately 2%-5%. The dashed line represents the break in series.

Source DITRD&C 2021

Figure 1.14 Annual hospitalised injuries

Note There were changes made to admission criteria in 2012 and again in 2017. The effects of these changes amounted to a reduction in admissions of approximately 2%-5%. The dashed line represents the break in series.
 Source DITRD&C 2021

Table 1.20 Hospitalised injuries – by Remoteness Area^a of residence

	Major Cities	Inner Regional	Outer Regional	Remote	Very Remote	Total ^b
2012	-	-	-	-	-	34,091
2013	23,176	6,574	3,425	690	530	35,059
2014	23,508	6,623	3,522	652	501	35,552
2015	24,552	6,895	3,612	642	535	37,082
2016	26,312	6,998	3,678	629	516	38,945
2017	26,272	7,321	3,716	585	468	39,330
2018	26,169	7,376	3,842	645	553	39,598
2019 ^c	-	-	-	-	-	-
2020 ^c	-	-	-	-	-	-
2021 ^c	-	-	-	-	-	-

a See Glossary.

b Includes undetermined Remoteness Area

c Cells with a '-' indicate that data is not available.

Note There were changes made to admission criteria in 2012 and again in 2017. The effects of these changes amounted to a reduction in admissions of approximately 2%-5%. The dashed line represents the break in series.

This table categorises road crash injuries by location of *residence*. This differs from the earlier fatality analyses which categorises crash injuries by location of *crash*.

Source DITRD&C 2021

Table 1.21 Hospitalised injuries and High Threat To Life

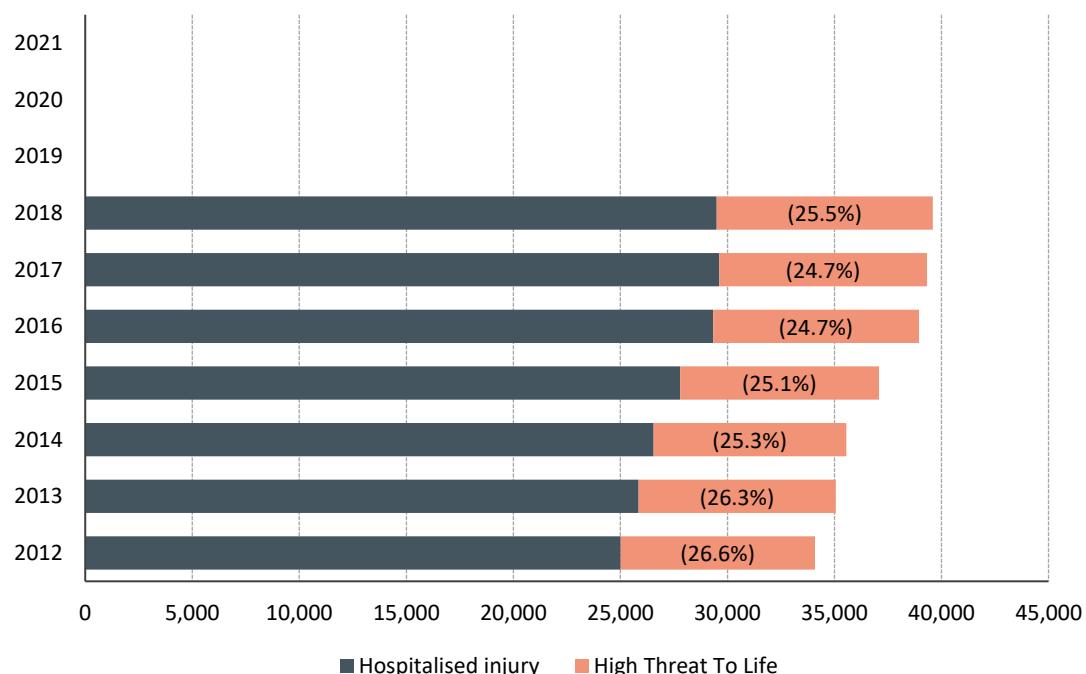
Hospitalised injury	High Threat To Life ^a	
	Counts	Proportion
2012	34,091	9,080 26.6
2013	35,059	9,207 26.3
2014	35,552	9,003 25.3
2015	37,082	9,292 25.1
2016	38,945	9,605 24.7
2017	39,330	9,709 24.7
2018	39,598	10,097 25.5
2019 ^c	-	-
2020 ^c	-	-
2021 ^c	-	-

a See Glossary.

b Cells with a '-' indicate that data is not available.

Note There were changes made to admission criteria in 2012 and again in 2017. The effects of these changes amounted to a reduction in admissions of approximately 2%-5%. The dashed line represents the break in series.

Source DITRD&C 2021

Figure 1.15 Proportion of hospitalised injuries classified as High Threat To Life

Note There were changes made to admission criteria in 2012 and again in 2017. The effects of these changes amounted to a reduction in admissions of approximately 2%-5%. The dashed line represents the break in series.

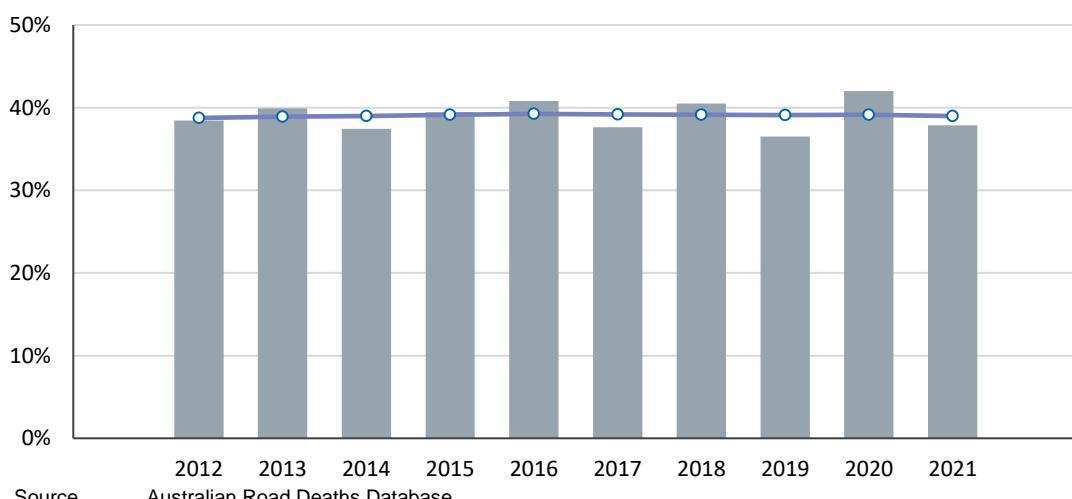
Source DITRD&C 2021

Table I.22 Deaths by weekday/weekend

	<i>Weekday</i>	<i>Weekend</i>	<i>Total</i>
2012	800	500	1,300
2013	713	474	1,187
2014	720	431	1,151
2015	729	475	1,204
2016	765	527	1,292
2017	762	460	1,222
2018	675	459	1,134
2019	753	433	1,186
2020	635	460	1,095
2021	698	425	1,123
% change 2020-2021	-15.7	6.2	2.6
Ave. trend change p.a. (%)	-1.2	-1.1	-1.2

Note 'Weekend' refers to 6pm Friday through to 6am Monday.

Source Australian Road Deaths Database

Figure I.16 Proportion of deaths occurring at the weekend, with trend

Source Australian Road Deaths Database

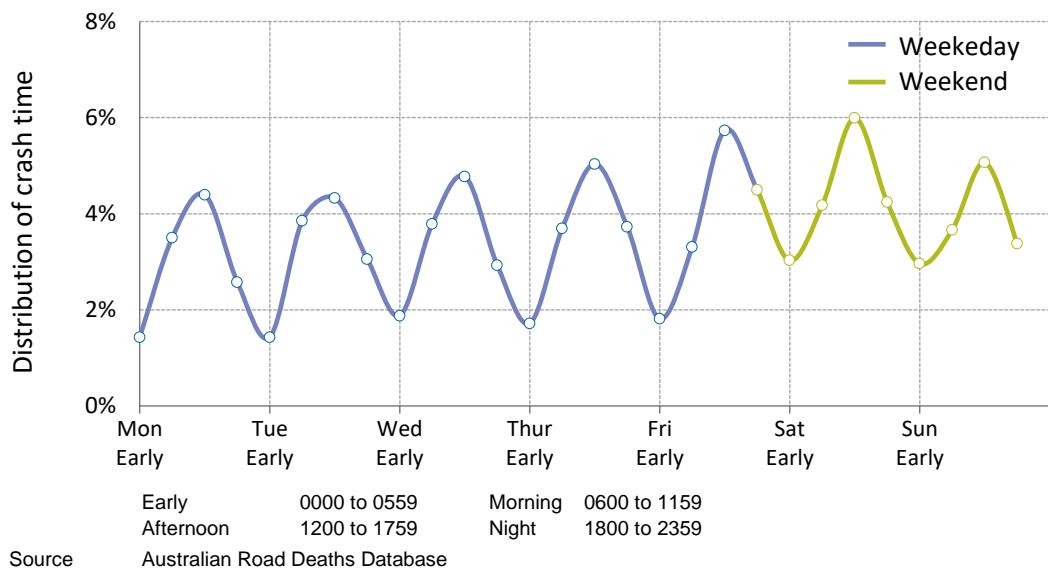
Table I.23 Fatal crashes by jurisdiction

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	336	261	255	86	171	29	40	12	1,190
2013	316	225	246	90	149	35	33	7	1,101
2014	285	223	199	96	173	31	34	10	1,051
2015	326	231	219	96	140	32	42	14	1,100
2016	356	275	238	76	170	33	40	10	1,198
2017	351	240	228	93	151	31	27	5	1,126
2018	326	202	224	75	145	31	42	9	1,054
2019	329	248	196	110	154	29	28	6	1,100
2020	264	195	251	85	136	31	28	6	996
2021	256	214	246	94	158	32	32	11	1,043
% change 2020-2021	-3.0	9.7	-2.0	10.6	16.2	3.2	14.3	83.3	4.7
Ave. trend change p.a. (%)	-1.8	-1.7	-0.1	0.3	-1.2	-0.3	-2.7	-3.8	-1.1

Source Australian Road Deaths Database

Figure 1.17

Distribution of time for fatal crashes, 2019-2021 combined



Source

Australian Road Deaths Database

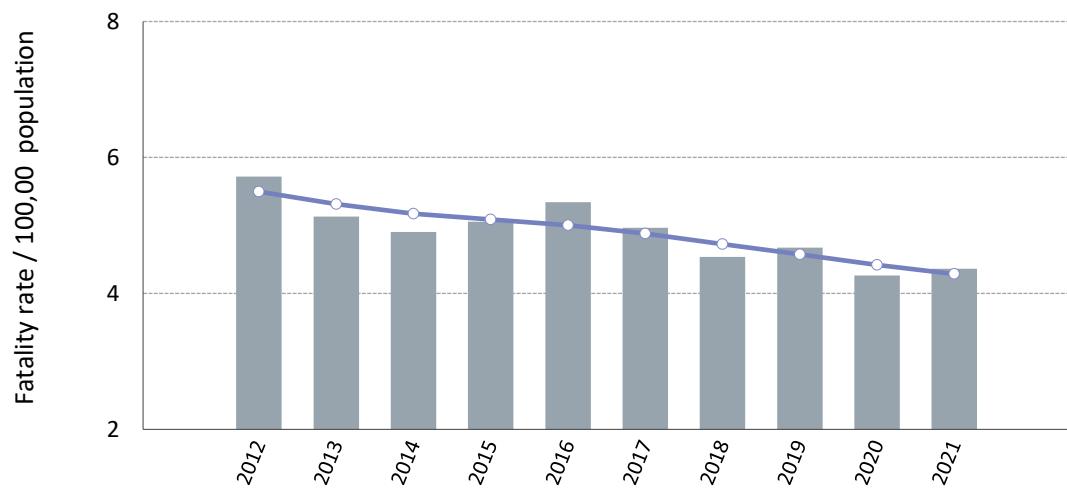
Section 2

RATES

Table 2.1 Annual fatality rate per 100,000 population by jurisdiction

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	5.1	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	6.5	7.0	15.3	1.8	5.1
2014	4.1	4.2	4.7	6.4	7.3	6.4	16.1	2.6	4.9
2015	4.6	4.2	5.1	6.0	6.3	6.6	20.0	3.8	5.1
2016	4.9	4.7	5.2	5.0	7.6	7.1	18.3	2.5	5.3
2017	4.9	4.1	5.0	5.8	6.2	6.1	12.5	1.2	5.0
2018	4.3	3.3	4.9	4.6	6.1	6.1	20.2	2.1	4.5
2019	4.4	4.0	4.3	6.5	6.2	5.4	14.6	1.4	4.7
2020	3.5	3.2	5.4	5.3	5.8	6.8	12.6	1.6	4.3
2021	3.3	3.5	5.2	5.6	6.2	6.5	14.2	2.5	4.4
% change 2020-2021	-4.8	10.7	-2.3	6.3	7.1	-5.5	13.1	57.0	2.4
Ave. trend change p.a. (%)	-3.2	-3.8	-1.6	-0.9	-2.2	-0.5	-3.3	-4.9	-2.6

Source ABS 2022a and Australian Road Deaths Database

Figure 2.1 Annual fatality rate per 100,000 population, with trend

Source ABS 2022a and Australian Road Deaths Database

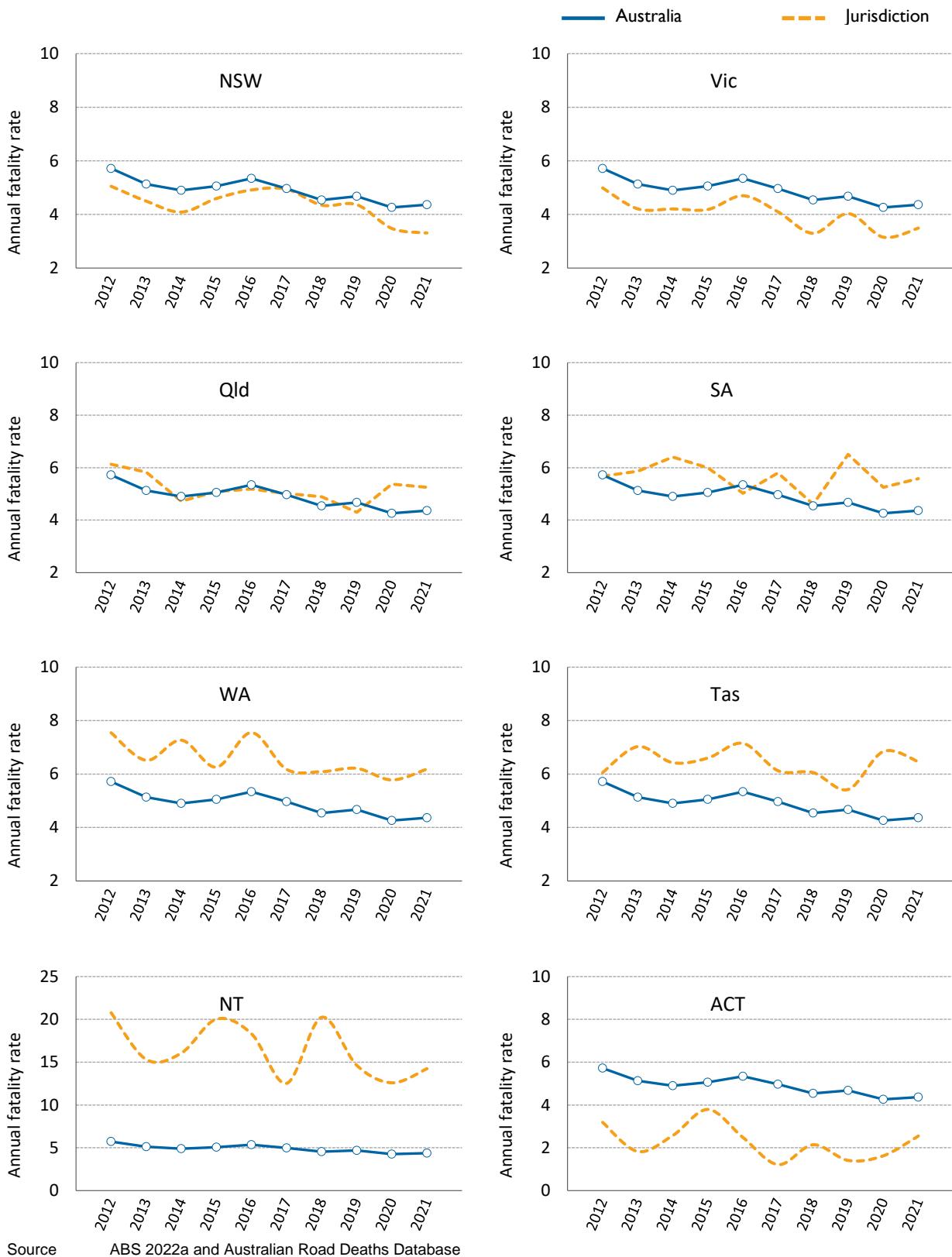
Figure 2.2**Annual fatality rate per 100,000 population by jurisdiction**

Table 2.2 Annual fatality rate per 100,000 population by age group

	0-7 years	8-16 years	17-25 years	26-39 years	40-64 years	65-74 years	≥ 75 years	All deaths ^a
2012	1.1	1.8	9.9	6.7	5.5	5.4	10.4	5.7
2013	1.3	1.4	8.0	5.3	5.1	6.3	10.6	5.1
2014	1.5	1.1	8.1	5.4	4.8	5.6	8.6	4.9
2015	0.8	1.7	7.7	5.7	5.0	5.9	9.8	5.1
2016	1.0	1.4	9.0	6.0	5.4	4.9	10.3	5.3
2017	0.9	1.0	8.2	4.8	5.1	5.6	11.0	5.0
2018	0.6	1.4	7.4	5.0	4.6	5.1	7.6	4.5
2019	0.7	1.0	7.8	4.9	4.8	4.6	9.6	4.7
2020	0.7	1.3	6.9	5.5	4.2	3.2	7.2	4.3
2021	0.9	1.5	7.4	4.6	4.5	4.7	7.0	4.4
% change 2020-2021	30.9	11.6	6.6	-16.7	6.1	45.5	-2.8	2.4
Ave. trend change p.a. (%)	-6.3	-2.1	-2.4	-2.5	-2.1	-4.4	-3.8	-2.6

^a Includes cases where age is unknown.
Source ABS 2022a and Australian Road Deaths Database

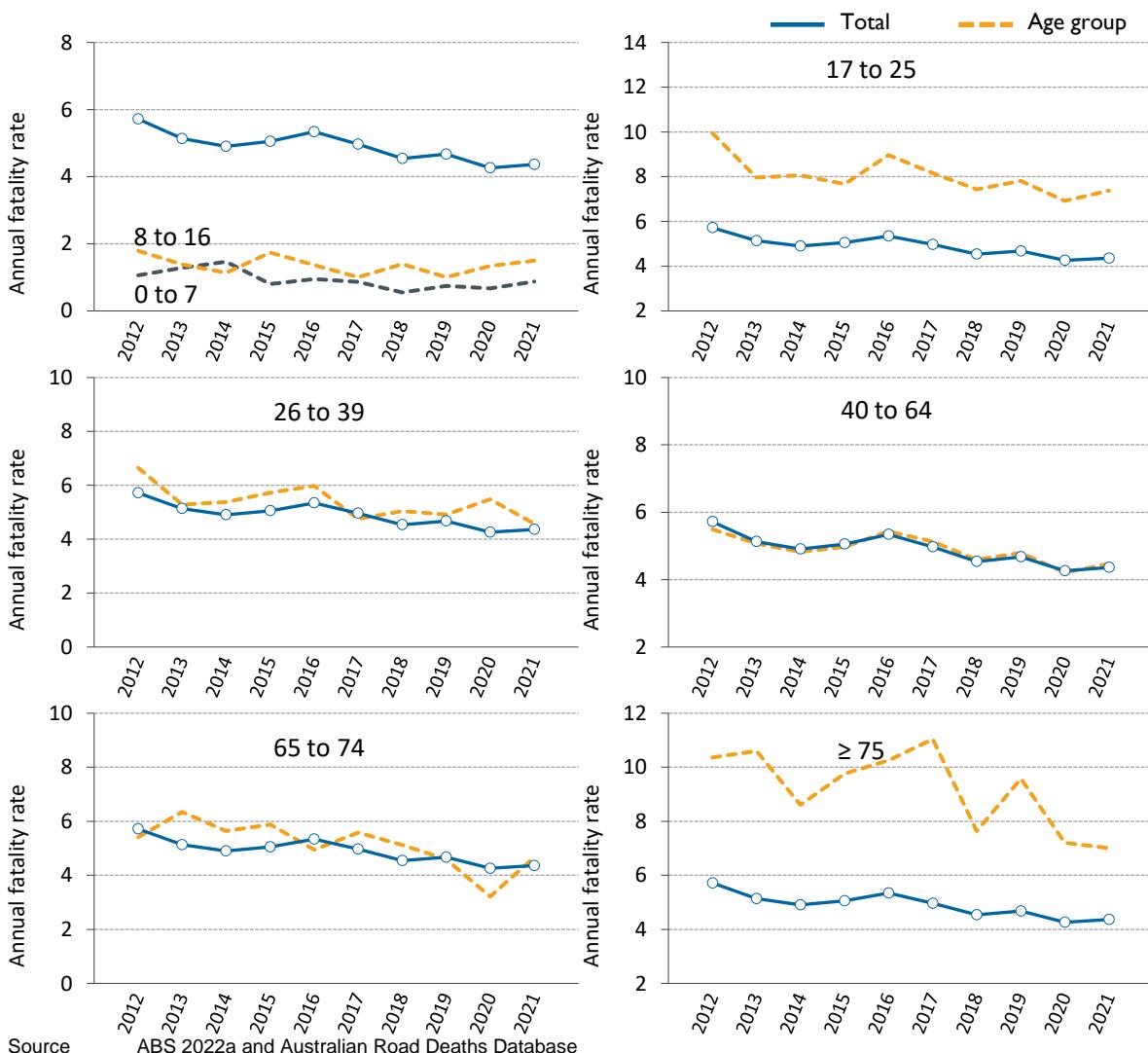
Figure 2.3 Annual fatality rate per 100,000 population by age group

Table 2.3 Annual fatality rate per 100,000 population by Remoteness Area

	Major Cities	Inner Regional	Outer Regional	Remote	Very Remote	Australia
2012	2.8	11.0	13.6	14.8	27.4	5.7
2013	2.6	9.5	11.7	23.0	26.4	5.1
2014	2.3	9.2	11.9	19.9	32.1	4.9
2015	2.4	9.0	13.9	20.5	28.4	5.1
2016	2.6	9.8	14.2	16.7	34.2	5.4
2017	2.4	9.4	14.2	15.4	18.4	5.0
2018	2.2	7.8	13.5	20.3	28.5	4.5
2019	2.2	8.4	13.6	21.3	29.9	4.7
2020	2.0	7.8	12.1	15.8	30.4	4.3
% change 2020-2021	-8.4	-6.5	-11.1	-26.0	1.6	-9.0
Ave. trend change p.a. (%)	-3.0	-3.3	0.4	-0.4	0.2	-2.7
Source	ABS 2022c and National Crash Database					

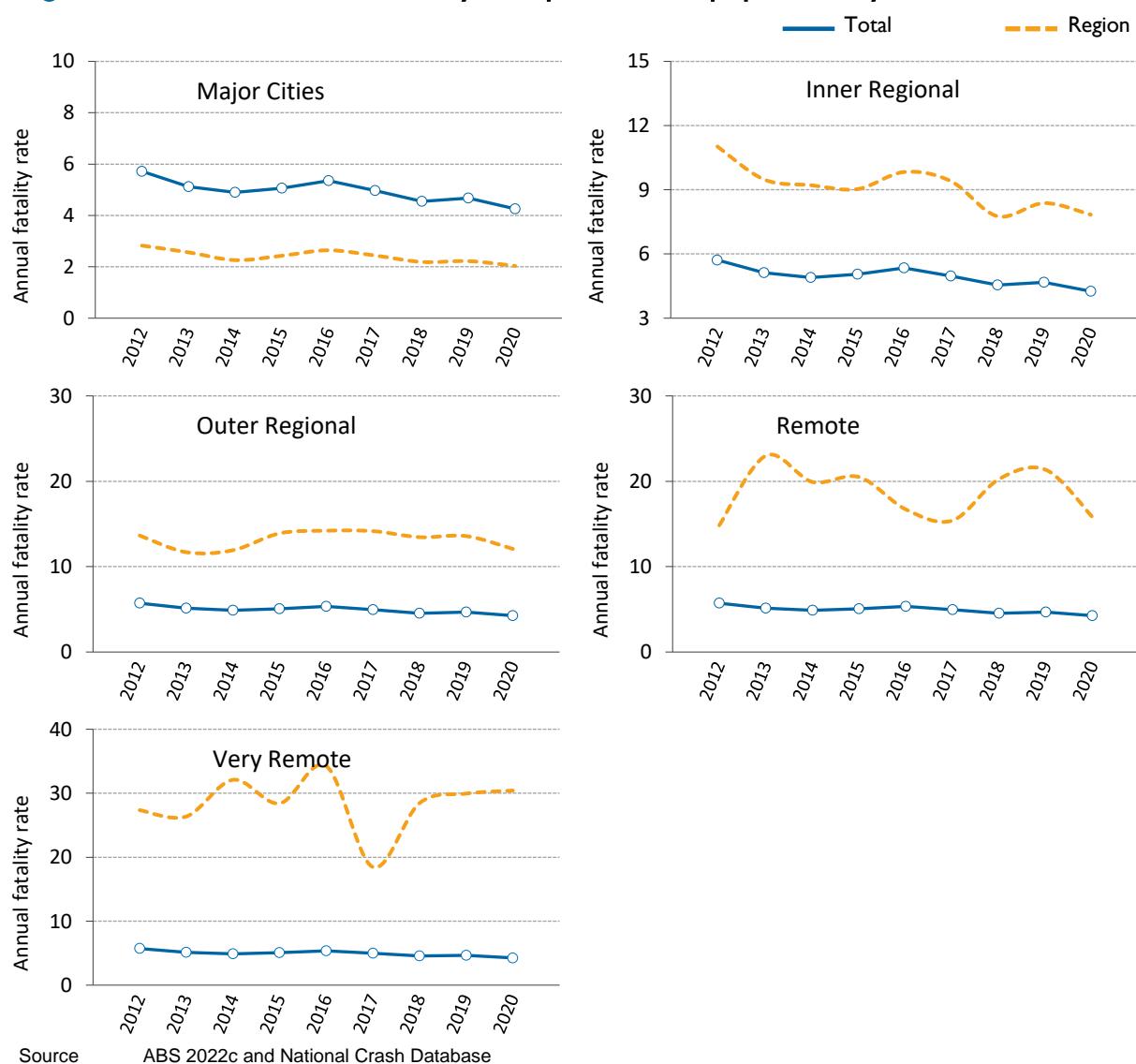
Figure 2.4 Annual fatality rate per 100,000 population by Remoteness Area

Table 2.4 Vehicle occupants^a—fatality rate per 10,000 registered four-wheeled^b motor vehicles

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	0.5	0.5	0.5	0.5	0.7	0.5	2.3	0.2	0.5
2013	0.4	0.4	0.6	0.5	0.5	0.4	1.4	0.2	0.5
2014	0.4	0.4	0.4	0.6	0.6	0.6	1.4	0.2	0.5
2015	0.4	0.4	0.5	0.5	0.6	0.5	2.0	0.4	0.5
2016	0.5	0.4	0.4	0.5	0.6	0.5	2.3	0.2	0.5
2017	0.5	0.4	0.4	0.4	0.5	0.4	1.3	0.1	0.4
2018	0.4	0.3	0.4	0.4	0.5	0.4	1.7	0.1	0.4
2019	0.4	0.3	0.4	0.5	0.6	0.4	1.9	0.1	0.4
2020	0.3	0.3	0.5	0.5	0.5	0.5	1.5	0.2	0.4
2021	0.3	0.3	0.4	0.4	0.5	0.5	1.3	0.3	0.4
% change 2020-2021	-11.3	10.5	-3.3	-3.7	-5.2	-13.2	-14.2	11.8	-3.5
Ave. trend change p.a. (%)	-4.5	-5.0	-2.6	-2.7	-1.8	-0.6	-2.8	0.8	-3.5

a Comprises drivers and passengers

b Comprises cars, trucks, light commercial vehicles and buses.

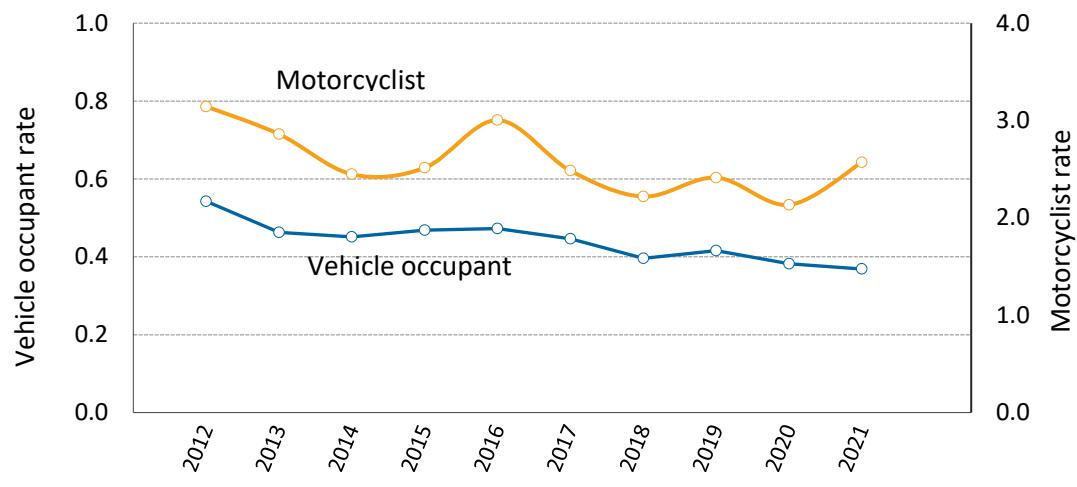
Source ABS 2021 and Australian Road Deaths Database

Table 2.5 Motorcyclists^a—fatality rate per 10,000 registered motorcycles

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	3.2	2.5	3.6	3.1	3.2	3.0	6.6	2.3	3.1
2013	3.6	2.4	2.6	2.4	2.2	6.3	9.0	1.5	2.9
2014	2.8	1.7	2.0	2.1	3.5	1.7	8.7	1.5	2.4
2015	3.0	1.7	2.9	2.1	1.7	5.4	8.4	3.1	2.5
2016	2.9	3.0	3.2	1.5	3.0	5.2	5.8	2.3	3.0
2017	2.5	2.0	2.5	4.4	2.0	5.6	4.5	0.8	2.5
2018	2.2	2.0	2.1	1.8	2.2	4.0	12.2	1.5	2.2
2019	2.7	2.2	2.2	3.1	2.2	3.4	4.9	0.0	2.4
2020	1.9	1.6	2.6	3.4	2.1	2.9	5.2	0.0	2.1
2021	2.3	2.1	3.0	3.0	2.7	4.2	8.5	0.0	2.6
% change 2020-2021	22.1	27.9	17.3	-14.0	30.1	45.4	63.3	0.0	20.5
Ave. trend change p.a. (%)	-5.1	-1.9	-1.6	3.0	-2.1	0.2	-2.1	-	-2.7

a Comprises motorcycle riders and pillion passengers.

Source ABS 2021 and Australian Road Deaths Database

Figure 2.5**Annual fatality rate per 10,000 registered vehicles**

Source

ABS 2021 and Australian Road Deaths Database

Table 2.6**Vehicle occupants^a – fatality rate per billion four-wheeled motor vehicle – vehicle kilometres travelled (VKT)**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	3.5	3.3	3.7	4.1	4.7	3.6	15.2	1.1	3.7
2013	2.8	2.6	3.8	4.1	3.6	3.4	9.6	1.0	3.2
2014	2.7	2.6	3.1	4.6	4.2	5.1	9.9	1.6	3.1
2015	2.9	2.8	3.1	4.1	4.3	3.7	14.1	2.6	3.3
2016	3.1	2.9	2.7	3.8	4.8	4.3	16.4	1.5	3.3
2017	3.5	2.6	2.8	3.3	3.9	3.4	8.8	0.7	3.2
2018	2.8	1.9	3.0	3.3	3.9	3.6	12.3	1.0	2.8
2019	2.9	2.4	2.7	4.0	4.2	3.5	13.2	1.0	3.0
2020	2.4	2.1	3.5	3.9	4.0	5.0	10.9	1.8	3.0
2021	2.1	2.5	3.3	3.7	3.7	4.3	9.1	2.0	2.9
% change 2020-2021	-13.0	20.2	-6.7	-4.7	-7.5	-14.0	-16.6	8.7	-3.2
Ave. trend change p.a. (%)	-3.1	-3.3	-1.5	-1.6	-1.1	1.2	-2.0	2.1	-2.1

a Comprises drivers and passengers

b Comprises cars, trucks, light commercial vehicles and buses.

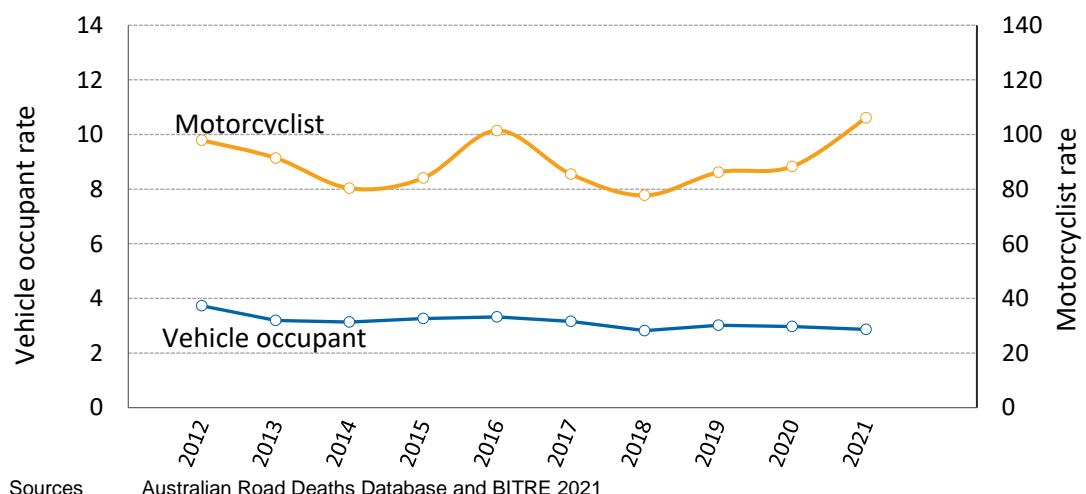
Sources Australian Road Deaths Database and BITRE 2021

Table 2.7
Motorcyclists^a – fatality rate per billion VKT

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	91.6	83.7	100.2	96.4	136.5	94.2	141.7	77.8	97.9
2013	103.6	82.9	73.1	76.1	98.0	203.0	205.4	51.8	91.4
2014	84.6	59.6	58.8	69.0	162.8	55.0	201.0	51.4	80.3
2015	94.7	58.8	84.1	68.5	78.2	181.1	199.1	102.5	84.1
2016	93.0	108.3	94.1	49.2	144.3	178.6	134.2	76.5	101.5
2017	81.1	72.8	75.4	147.5	92.8	194.9	101.4	25.6	85.5
2018	74.7	73.1	65.3	61.2	104.4	140.6	273.1	51.4	77.7
2019	94.5	83.3	68.9	105.5	102.2	123.8	105.7	0.0	86.2
2020	76.7	71.9	93.5	142.2	107.6	127.3	121.6	0.0	88.3
2021	93.7	99.3	105.6	121.9	133.5	182.3	191.2	0.0	106.1
% change 2020-2021	0.2	0.4	0.1	-0.1	0.2	0.4	0.6	0.0	0.2
Ave. trend change p.a. (%)	-1.3	1.5	1.2	5.8	-0.9	3.7	-2.1	-	0.3

a Comprises motorcycle riders and pillion passengers.

Sources Australian Road Deaths Database and BITRE 2021

Figure 2.6
Annual fatality rates per billion VKT

Sources Australian Road Deaths Database and BITRE 2021

Table 2.8 Annual hospitalised injury (HI) and fatality rates

	Per 10^5 population		Per 10^4 registered vehicle		Per 10^9 VKT	
	HI	Deaths	HI	Deaths	HI	Deaths
2012	150.0	5.7	20.4	0.8	144.7	5.5
2013	151.6	5.1	20.4	0.7	145.5	4.9
2014	151.4	4.9	20.2	0.7	144.9	4.7
2015	155.7	5.1	20.6	0.7	148.8	4.8
2016	161.0	5.3	21.2	0.7	154.2	5.1
2017	159.9	5.0	20.9	0.7	153.7	4.8
2018	158.5	4.5	20.7	0.6	152.6	4.4
2019	-	4.7	-	0.6	-	4.6
2020	-	4.3	-	0.6	-	4.5
2021	-	4.4	-	0.6	-	4.5

Note There were changes made to admission criteria in 2012 and again in 2017. The effects of these changes amounted to a reduction in admissions of approximately 2%-5%. The dashed line represents the break in series.

Sources ABS 2022a, Australian Road Deaths Database, BITRE 2021 and DITRD&C 2021

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Section 3

NRSS statistical progress

Table 3.1 **National Road Safety Strategy (NRSS) statistical progress**
– High level outcome measures

Measure	Baseline (2008-2010)	2020	% Change
Number of deaths resulting from road crashes	1,425	1,094	-23.2%
Number of road crashes resulting in deaths	1,297	995	-23.3%
Number of deaths per 100,000 population	6.6	4.3	-35.5%
Number of deaths per 100 million vehicle kilometres travelled	0.63	0.44	-30.1%
Number of deaths per 10,000 registered vehicles	0.91	0.55	-39.6%

Source <roadsafety.gov.au>

Table 3.2 **National Road Safety Strategy (NRSS) statistical progress**
– Outcome Measures Australia

Measure	Baseline (2008-2010)	2020	% Change
Safe roads			
Number of deaths from head-on crashes	266	186	-30.1%
Number of deaths from single-vehicle crashes	657	492	-25.1%
Number of deaths from intersection crashes	300	242	-19.3%
Number of deaths from crashes on metropolitan roads	513	378	-26.3%
Number of deaths from crashes on regional roads	765	606	-20.8%
Number of deaths from crashes on remote roads	136	107	-21.3%
Safe speeds			
Number of deaths from crashes where speed was a contributory factor		N/A	
Mean free speeds at designated sites across the network		N/A	
Percentage of vehicles speeding by vehicle type and offence category		NA	
Safe vehicles			
Average age of the Australian vehicle fleet (years)	10.0	10.4	4.0%
Average age of passenger vehicles	9.7	10.1	4.1%
Percentage of new light vehicles sold with a 5-star ANCAP rating	56% (2010)	91%	N/A
Percentage of new vehicles sold with Autonomous Emergency Braking (AEB)	N/A	86%	N/A

Table 3.2 **National Road Safety Strategy (NRSS) statistical progress**
– Outcome Measures Australia (continued)

Measure	Baseline (2008-2010)	2020	% Change
Safe people – responsible road use			
Number of young driver and motorcycle rider deaths (aged 17-25 years)	223	133	-40.4%
Number of deaths from crashes involving a young driver or motorcycle rider (aged 17-25 years)	467	300	-35.8%
Number of older driver and motorcycle rider deaths (aged 65+ years)	114	136	19.3%
Number of deaths from crashes involving an older driver or motorcycle rider (aged 65+ years)	205	212	3.4%
Number of motorcyclist deaths	231	190	-17.7%
Number of cyclist deaths	32	41	28.1%
Number of pedestrian deaths	186	136	-26.9%
Number of deaths from crashes involving a heavy vehicle	250	188	-24.8%
Safe people – irresponsible road use			
Number of drivers and motorcycle riders killed with a blood alcohol concentration (BAC) above the legal limit	150	93	-38.0%
Number of deaths from crashes involving a driver or motorcycle rider with a blood alcohol concentration (BAC) above the legal limit	211	139	-34.1%
Number of deaths from crashes involving an unlicensed driver or motorcycle rider	143	115	-19.6%
Number of vehicle occupants killed who were not wearing a restraint	215	154	-28.4%
Number of drivers and motorcycle riders killed who had an illegal drug in their system	57	96	68.4%
Number of deaths from crashes involving a driver or motorcycle rider who had an illegal drug in their system	95	178	87.4%

Source <roadsafety.gov.au>

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Section 4

EXPOSURE

Table 4.1 Population (000s) by jurisdiction (June)

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	7,304	5,651	4,569	1,657	2,426	512	236	377	22,733
2013	7,404	5,773	4,653	1,671	2,487	512	242	383	23,128
2014	7,508	5,895	4,720	1,687	2,518	514	243	389	23,476
2015	7,616	6,022	4,778	1,701	2,541	515	245	396	23,816
2016	7,733	6,173	4,845	1,713	2,556	518	246	403	24,191
2017	7,868	6,322	4,928	1,724	2,574	522	248	412	24,602
2018	7,980	6,462	5,009	1,737	2,594	528	247	420	24,983
2019	8,087	6,597	5,094	1,753	2,623	535	246	426	25,366
2020	8,167	6,694	5,175	1,770	2,664	541	246	431	25,693
2021	8,189	6,649	5,221	1,773	2,682	541	246	432	25,738
Ave. trend change p.a. (%)	1.4	2.0	1.5	0.8	1.0	0.7	0.4	1.7	1.5
Source	ABS 2022a								

Table 4.2 Population (000s) by age group (June)

	0-7	8-16	17-25	26-39	40-64	65-74	≥ 75	All
2012	2,362	2,511	2,855	4,510	7,281	1,777	1,437	22,733
2013	2,419	2,527	2,887	4,595	7,370	1,859	1,471	23,128
2014	2,457	2,552	2,912	4,667	7,446	1,932	1,510	23,476
2015	2,485	2,587	2,934	4,751	7,505	2,007	1,548	23,816
2016	2,518	2,630	2,955	4,855	7,561	2,083	1,589	24,191
2017	2,535	2,678	2,991	4,980	7,627	2,152	1,639	24,602
2018	2,538	2,727	3,027	5,094	7,684	2,224	1,689	24,983
2019	2,540	2,782	3,048	5,204	7,752	2,286	1,754	25,366
2020	2,530	2,835	2,992	5,285	7,855	2,364	1,832	25,693
2021	2,501	2,876	2,861	5,273	7,898	2,416	1,912	25,738
Ave. trend change p.a. (%)	0.6	1.6	0.4	1.9	0.9	3.5	3.2	1.5
Source	ABS 2022a							

Table 4.3 Population (000s) by Remoteness Area (June)

	Major Cities	Inner Regional	Outer Regional	Remote	Very Remote	Australia
2012	16,062	4,155	2,001	303	212	22,733
2013	16,384	4,208	2,019	304	212	23,128
2014	16,682	4,254	2,029	301	209	23,476
2015	16,982	4,296	2,036	298	204	23,816
2016	17,312	4,343	2,041	293	202	24,191
2017	17,670	4,391	2,048	292	201	24,602
2018	17,996	4,444	2,051	291	200	24,983
2019	18,320	4,500	2,055	291	200	25,366
2020	18,583	4,556	2,063	291	201	25,693
2021	18,572	4,608	2,067	291	201	25,738
Ave. trend change p.a. (%)	1.7	1.1	0.3	-0.6	-0.7	1.5
Source	ABS 2022c					

Table 4.4**Registrations (000s) of four-wheeled motor vehicles by jurisdiction**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	4,682	4,122	3,328	1,226	1,871	416	135	254	16,032
2013	4,785	4,214	3,432	1,248	1,935	420	142	261	16,436
2014	4,891	4,309	3,524	1,274	2,019	425	145	266	16,853
2015	5,025	4,388	3,584	1,295	2,058	432	148	270	17,201
2016	5,145	4,496	3,661	1,311	2,080	439	151	275	17,558
2017	5,271	4,609	3,748	1,332	2,091	450	149	282	17,932
2018	5,374	4,731	3,841	1,355	2,106	461	156	289	18,313
2019	5,454	4,835	3,927	1,374	2,121	473	156	296	18,635
2020	5,524	4,921	3,995	1,390	2,156	486	155	298	18,924
2021	5,623	4,954	4,085	1,420	2,191	495	157	305	19,229
Ave. trend change p.a. (%)	2.1	2.2	2.3	1.6	1.5	2.1	1.5	2.0	2.0

Table 4.5**Registrations (000s) of motorcycles by jurisdiction**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	188	165	165	49	107	16	6	13	709
2013	200	169	174	51	114	17	7	13	745
2014	211	174	182	52	123	18	7	13	780
2015	222	179	187	53	127	19	7	13	807
2016	229	185	193	54	129	19	7	13	829
2017	238	189	200	54	128	20	7	13	849
2018	244	192	204	54	126	20	7	13	861
2019	248	196	208	55	123	20	6	13	870
2020	255	198	210	55	123	21	6	13	881
2021	270	203	219	58	124	21	6	13	914
Ave. trend change p.a. (%)	3.7	2.3	3.0	1.5	1.1	2.7	-1.4	0.2	2.6

Table 4.6**Registrations (000s) of all vehicles by jurisdiction**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	4,870	4,286	3,492	1,275	1,978	432	141	267	16,742
2013	4,985	4,384	3,606	1,298	2,048	437	149	274	17,181
2014	5,102	4,483	3,705	1,326	2,142	443	152	279	17,633
2015	5,247	4,567	3,771	1,348	2,185	450	155	284	18,008
2016	5,374	4,681	3,854	1,365	2,209	458	158	288	18,387
2017	5,509	4,798	3,948	1,386	2,219	469	155	296	18,781
2018	5,618	4,923	4,045	1,409	2,232	481	163	303	19,173
2019	5,702	5,031	4,134	1,429	2,245	493	162	309	19,505
2020	5,779	5,120	4,205	1,445	2,279	506	160	311	19,805
2021	5,892	5,157	4,304	1,478	2,315	516	163	318	20,143

Ave. trend change p.a. (%) 2.2 2.2 2.3 1.6 1.5 2.1 1.4 1.9 2.1

Note 'All vehicles' includes Campervans, which are not included in the 4-Wheeled category in Table 5.4.

Source ABS 2021

Table 4.7 VKT (millions) for four-wheeled motor vehicles by jurisdiction

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	70,441	60,369	49,423	15,996	26,098	5,238	2,039	3,714	233,317
2013	72,004	61,701	50,698	16,317	26,722	5,275	2,085	3,813	238,615
2014	73,178	63,011	51,481	16,693	27,333	5,316	2,111	3,870	242,994
2015	74,408	64,063	52,338	16,892	27,771	5,352	2,129	3,917	246,870
2016	75,423	64,866	53,146	17,023	28,151	5,358	2,130	3,951	250,047
2017	76,622	66,054	53,778	17,151	28,234	5,373	2,157	4,005	253,372
2018	77,695	67,285	54,507	17,333	28,377	5,491	2,201	4,066	256,955
2019	77,458	67,800	54,440	17,100	28,338	5,507	2,194	4,059	256,895
2020	72,081	64,211	52,480	16,372	27,479	5,194	2,118	3,867	243,801
2021	74,763	59,418	55,640	16,904	28,629	5,344	2,208	4,067	246,973
Ave. trend change p.a. (%)	0.6	0.4	1.0	0.4	0.8	0.2	0.7	0.8	0.7

Table 4.8 VKT (millions) for motorcycles by jurisdiction

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	666	490	599	156	249	53	28	39	2,279
2013	685	495	616	158	255	54	29	39	2,330
2014	697	504	629	159	264	55	30	39	2,377
2015	708	510	642	161	268	55	30	39	2,413
2016	721	517	659	163	270	56	30	39	2,454
2017	727	522	663	163	269	56	30	39	2,469
2018	723	520	658	163	268	57	29	39	2,458
2019	720	516	653	161	264	57	28	38	2,437
2020	626	445	578	134	242	47	25	33	2,129
2021	661	423	625	139	255	49	26	35	2,214
Ave. trend change p.a. (%)	-0.3	-1.1	0.1	-1.2	-0.1	-0.8	-1.3	-1.2	-0.4

Table 4.9 VKT (millions) for all vehicles by jurisdiction

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2012	71,107	60,859	50,021	16,152	26,347	5,291	2,068	3,752	235,596
2013	72,689	62,196	51,314	16,475	26,977	5,329	2,114	3,851	240,946
2014	73,875	63,515	52,111	16,852	27,597	5,371	2,141	3,909	245,371
2015	75,116	64,573	52,980	17,052	28,040	5,407	2,159	3,956	249,283
2016	76,143	65,383	53,805	17,186	28,421	5,414	2,160	3,990	252,502
2017	77,349	66,576	54,440	17,313	28,503	5,430	2,186	4,044	255,841
2018	78,419	67,805	55,165	17,496	28,645	5,548	2,230	4,105	259,413
2019	78,178	68,316	55,093	17,261	28,602	5,563	2,223	4,097	259,332
2020	72,707	64,656	53,058	16,505	27,721	5,241	2,142	3,900	245,930
2021	75,424	59,841	56,266	17,044	28,884	5,394	2,234	4,102	249,188
Ave. trend change p.a. (%)	0.6	0.4	1.0	0.4	0.8	0.2	0.7	0.8	0.6

Source BITRE 2021

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 fields.

<i>BAC</i>	Blood alcohol concentration (BAC) refers to the amount of alcohol present in the bloodstream.
<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>DCA/RUM codes</i>	A system of classifying crashes according to the movements of key vehicles and road users. See Austroads 2009.
<i>Fatal crash</i>	A crash for which there is at least one death.
<i>High threat to life injury</i>	'High threat to life' hospitalised injury cases are a subset of all hospitalised injury cases. They are selected on the basis of having an ICD Injury Severity Score (ICISS) of less than 0.941. See Australian Institute of Health and Welfare 2016 for definition and discussion.
<i>Hospitalised injury</i>	A person admitted to hospital from a crash occurring 'in traffic'. Traffic area exclude off-road and unknown locations.
<i>Remoteness area</i>	ABS Remoteness Areas divide Australia into 5 classes of remoteness on the basis of a measure of relative access to services. See ABS 2018.
<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 changes</i>	The 'average trend changes 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. Note: The occurrence of a zero in the original series precludes trend estimation by this method.
<i>Trend lines</i>	Trend lines are estimated by Whittaker-Henderson methodology. The R package 'pracma' is used to perform the smoothing.
<i>Urban area</i>	ABS Significant Urban Areas represent aggregations of whole Statistical Area Level 2 (SA2) boundaries and are used to define and contain major urban and near-urban concentrations of over 10,000 people. See ABS 2018.

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