



Australian Government

Department of Infrastructure, Transport, Regional Development and Communications

Bureau of Infrastructure and Transport Research Economics

## STATISTICAL REPORT

bitre  
Safety

Road trauma Australia  
2020 statistical summary

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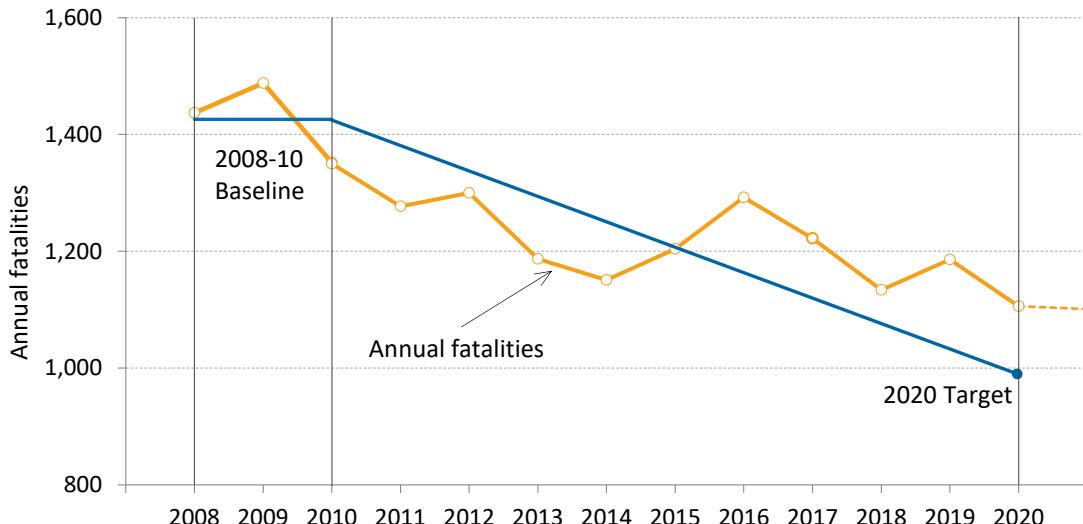
# Road trauma Australia 2020 statistical summary

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 NRSS 2011-2020 statistical progress towards fatality target**



## Reduction over the Decade

Over the decade to 2020, fatalities decreased from approximately 1,300 per year to 1,100 per year. The trend was not consistent but the total reduction amounted to 13.4 per cent. The years 2012 and 2016 were peaks, and 2014 and 2020 were lows.

The rate of annual fatalities per 100,000 population declined by a total of 24.7 per cent over the decade. All jurisdictions showed reductions in this rate.

## Covid19

During the second quarter of calendar 2020, estimated vehicle kilometres travelled (VKT) declined by 22 per cent and fatalities declined by 14.0 per cent. In the 3rd and 4th quarters of 2020, both VKT and deaths increased to historical trend levels. Compared to calendar 2019, there were 6.7 per cent fewer fatalities in 2020.

Cyclist, motorcyclist and pedestrian deaths increased or were unchanged during the 3 month 2020 Covid lockdown period. Deaths of other road user groups declined.

## Exposure data — Population, Registrations and VKT

Population increased by 15.0 per cent over the decade. The population of Major Cities (combined) increased faster than Regional areas (9 per cent) or Remote areas (-4 per cent).

Over the decade, vehicle registrations increased by 21.0 per cent. Motorcycle registrations increased faster than that of 4W vehicles. All jurisdictions saw significant increases in vehicle registrations.

Estimated VKT Estimated VKT increased by 6.4 per cent over the decade. Motorcycle VKT increased by 1.1 per cent and 4W vehicle VKT increased by 6.4 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. It comprises basic demographic and crash information only. It is updated each month and for this report May 2021 data was used. The tables in this report that present fatal crash data for 2011-2020 are based on the ARDD. The database is available at <[https://www.bitre.gov.au/statistics/safety/fatal\\_road\\_crash\\_database](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 fatal and injury crashes, and at present it covers the years 2008 to 2019. 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 2011-2019 are based on the NCD.

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 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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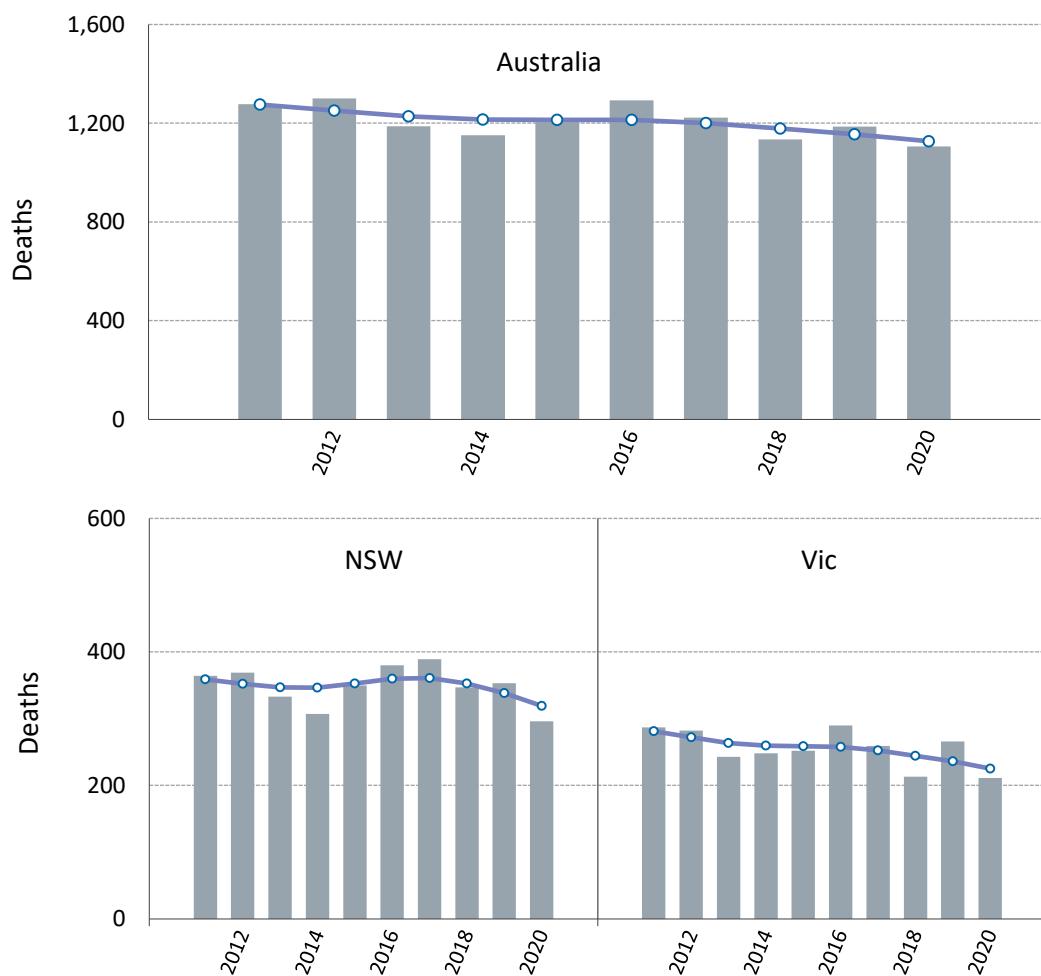
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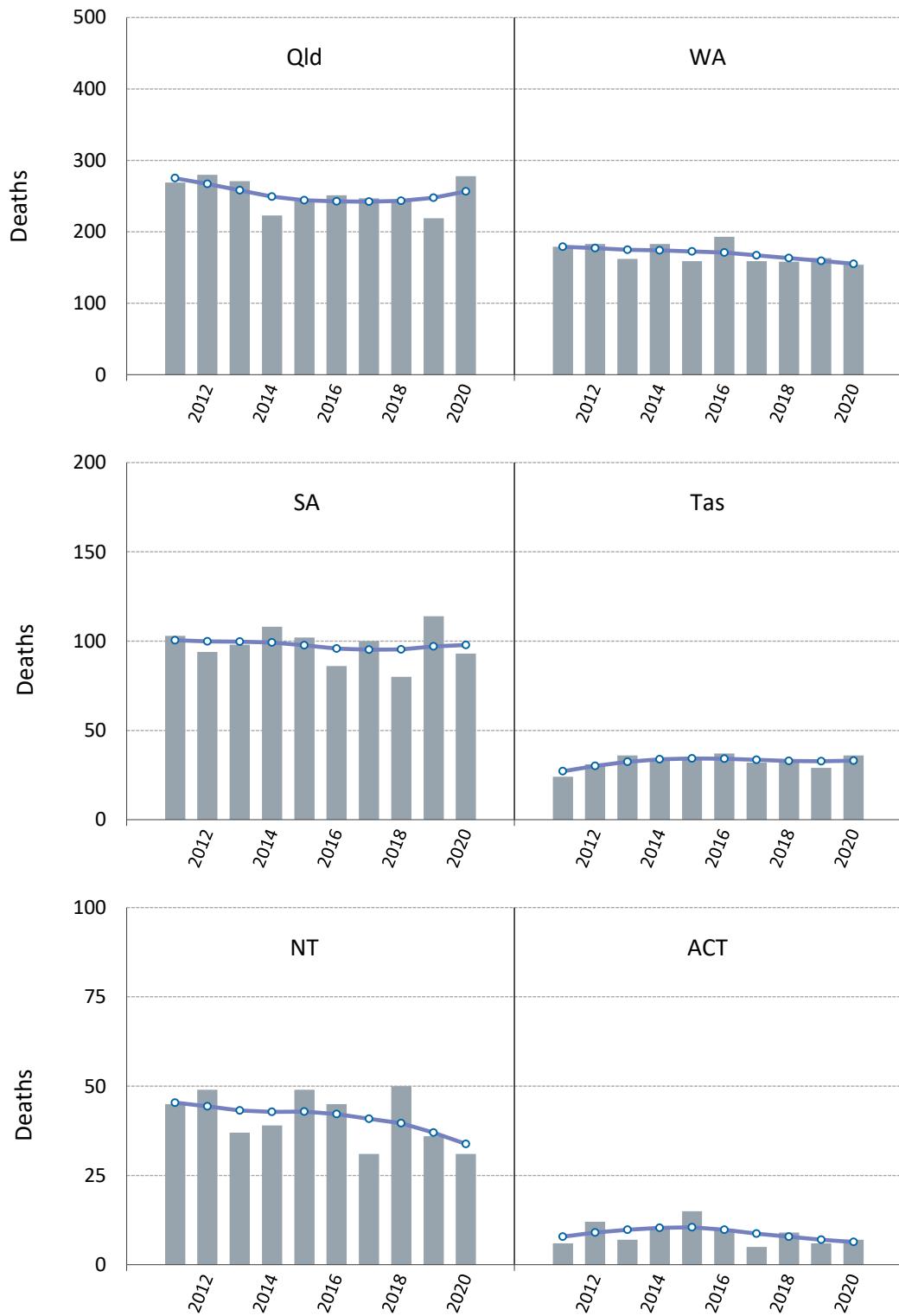
## **Section I**

# **TRAUMA**

**Table I.1**  
**Deaths by jurisdiction**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
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	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	296	211	278	93	154	36	31	7	1,106
% change 2019-2020	-16.1	-20.7	26.9	-18.4	-5.5	24.1	-13.9	16.7	-6.7
Ave. trend change p.a. (%)	-0.7	-2.1	-1.0	-0.6	-1.5	1.6	-2.9	-2.8	-1.2

**Figure I.1**  
**Deaths by jurisdiction, with trends**

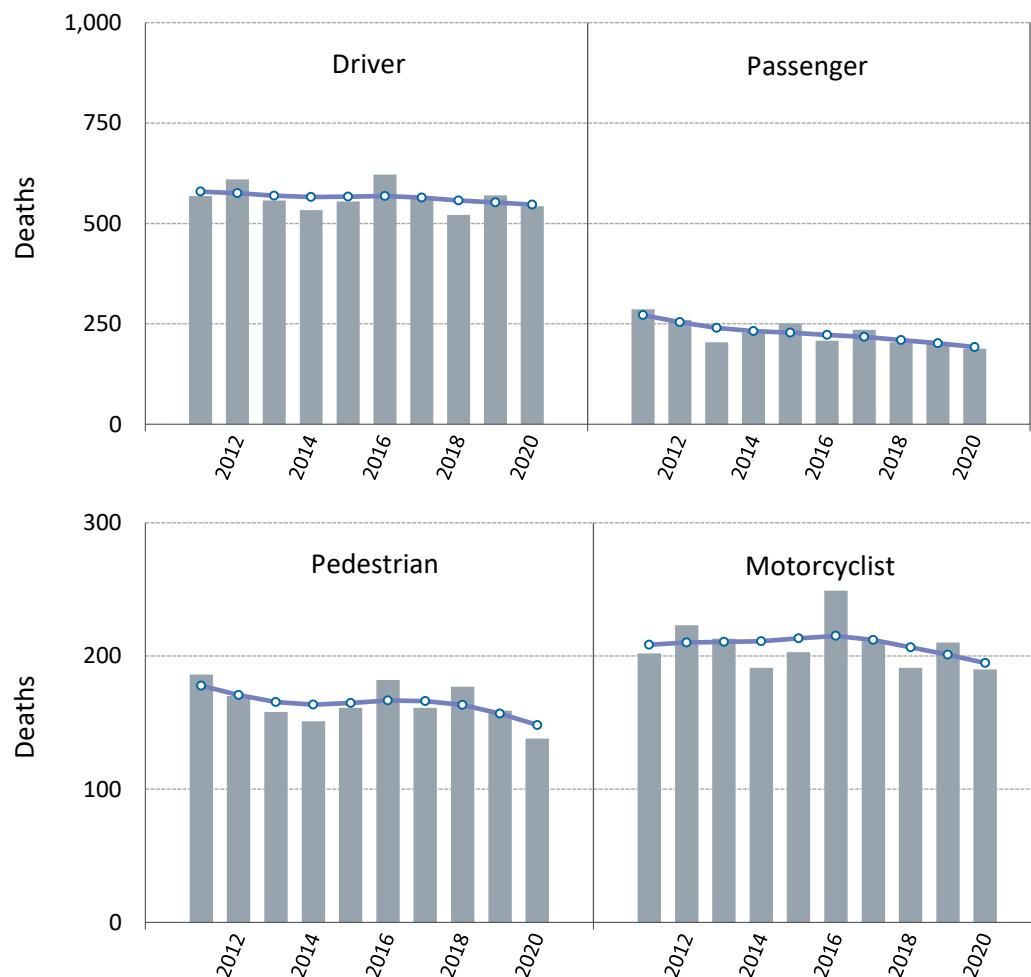
**Figure 1.1****Deaths by jurisdiction, with trends (continued)**

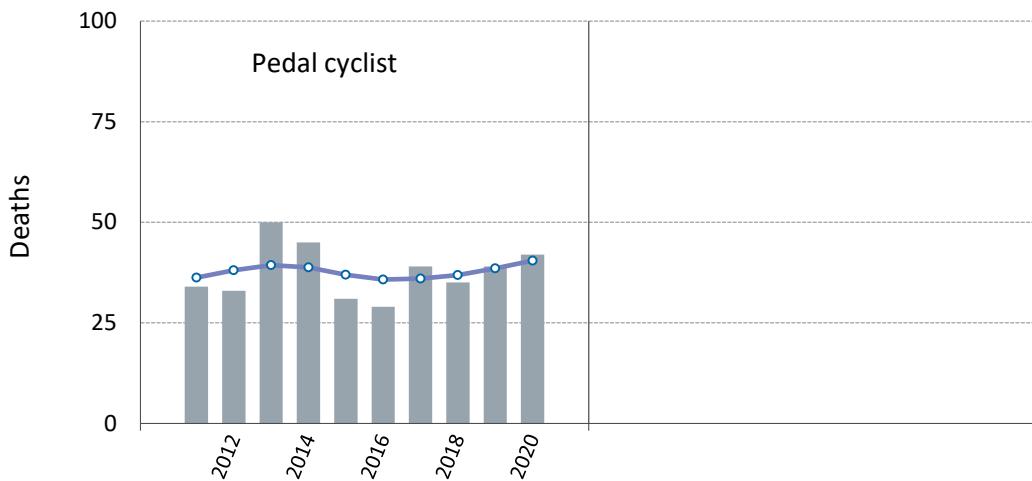
**Table 1.2** Deaths by road user

	<i>Driver</i>	<i>Passenger</i>	<i>Pedestrian</i>	<i>Motorcyclist</i> <sup>a</sup>	<i>Pedal cyclist</i> <sup>a</sup>	<i>Total</i> <sup>b</sup>
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	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	543	188	138	190	42	1,106
% change 2019-2020	-4.7	-8.3	-13.2	-9.5	7.7	-6.7
Ave. trend change p.a. (%)	-0.6	-3.3	-1.4	-0.6	0.5	-1.2

a Includes billion passengers.

b Includes cases where road user type is unknown.

**Figure 1.2** Deaths by road user, with trends

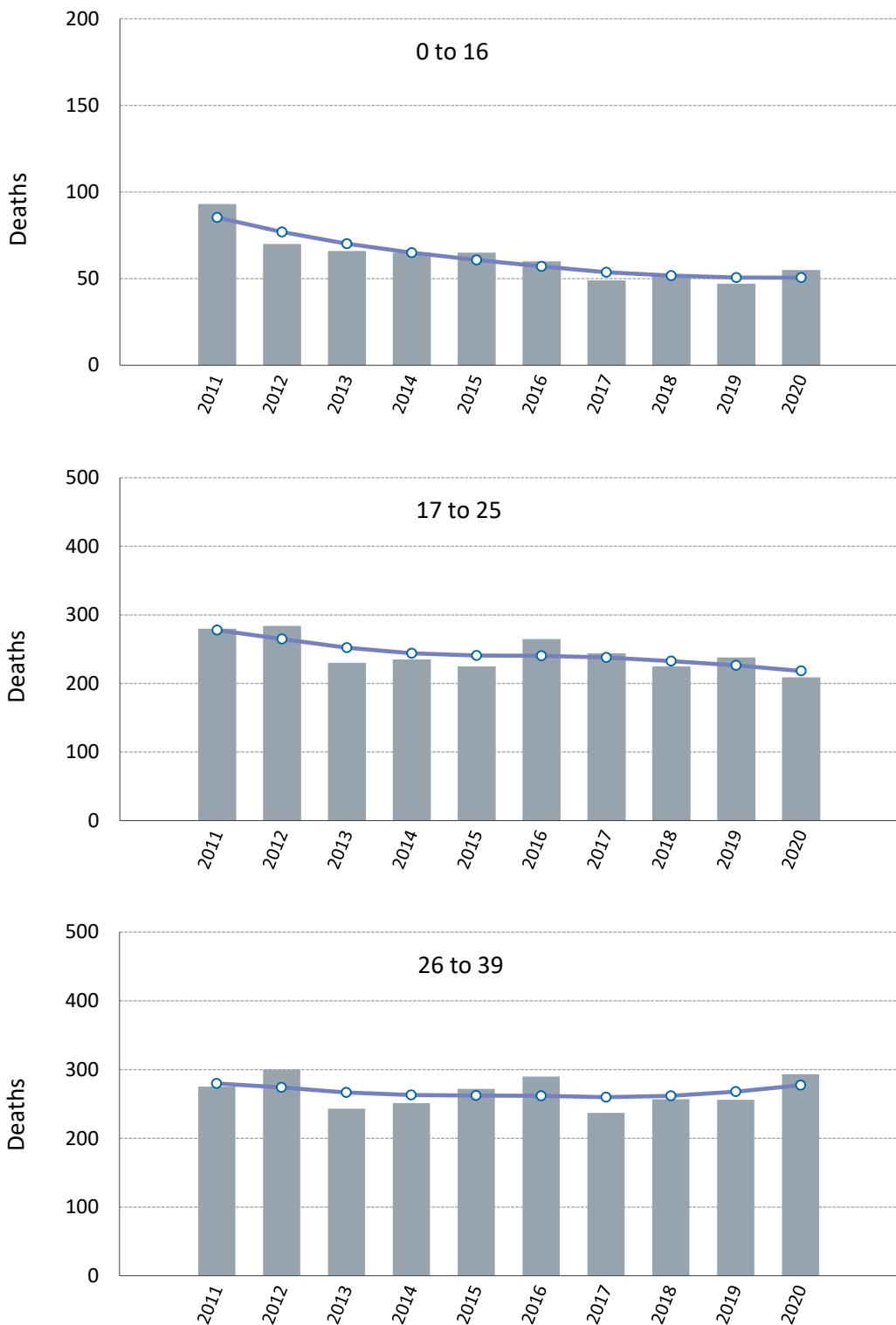
**Figure 1.2****Deaths by road user, with trends (continued)****Table 1.3****Deaths by age group**

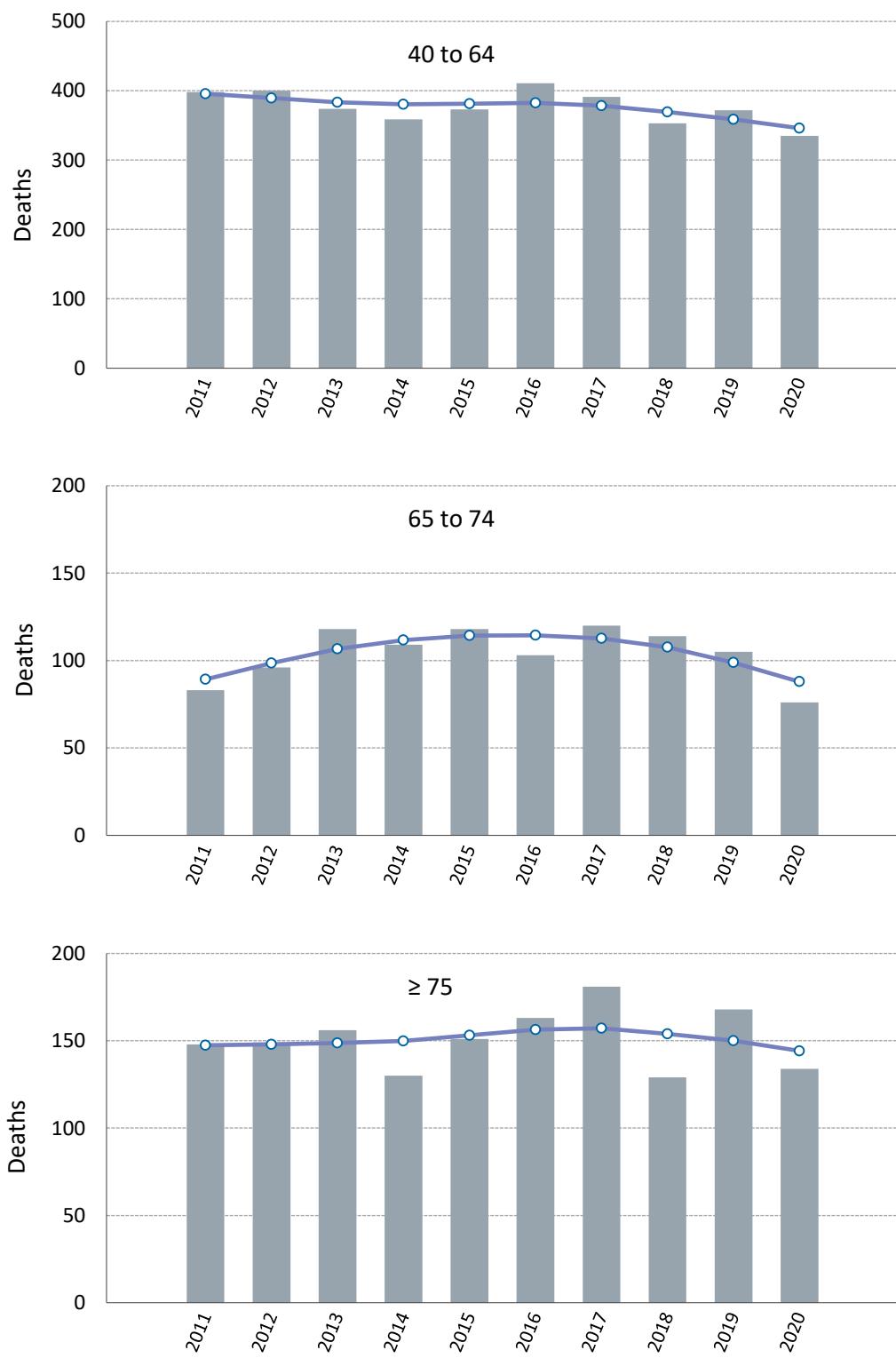
	0–16 years	17–25 years	26–39 years	40–64 years	65–74 years	≥ 75 years	Total <sup>a</sup>
2011	93	280	275	398	83	148	1,277
2012	70	284	300	400	96	149	1,300
2013	66	230	243	374	118	156	1,187
2014	65	235	251	359	109	130	1,151
2015	65	225	272	373	118	151	1,204
2016	60	265	290	411	103	163	1,292
2017	49	244	237	391	120	181	1,222
2018	52	225	257	353	114	129	1,134
2019	47	238	256	372	105	168	1,186
2020	55	209	293	335	76	134	1,106
% change 2019–2020	17.0	-12.2	14.5	-9.9	-27.6	-20.2	-6.7
Ave. trend change p.a. (%)	-5.7	-2.2	-0.2	-1.2	-0.1	0.0	-1.2

a Includes cases where age is unknown.

**Figure 1.3**

**Deaths by age group, with trends**

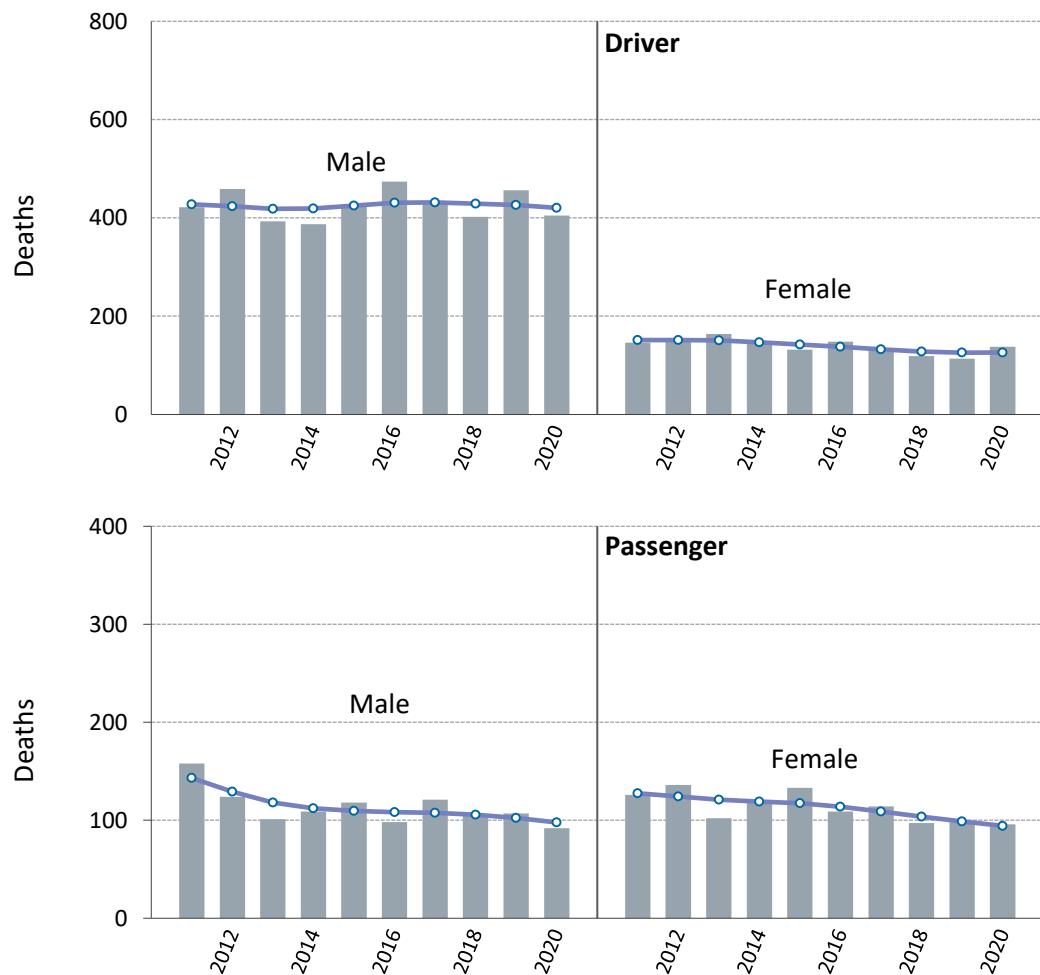


**Figure 1.3** Deaths by age group, with trends (continued)

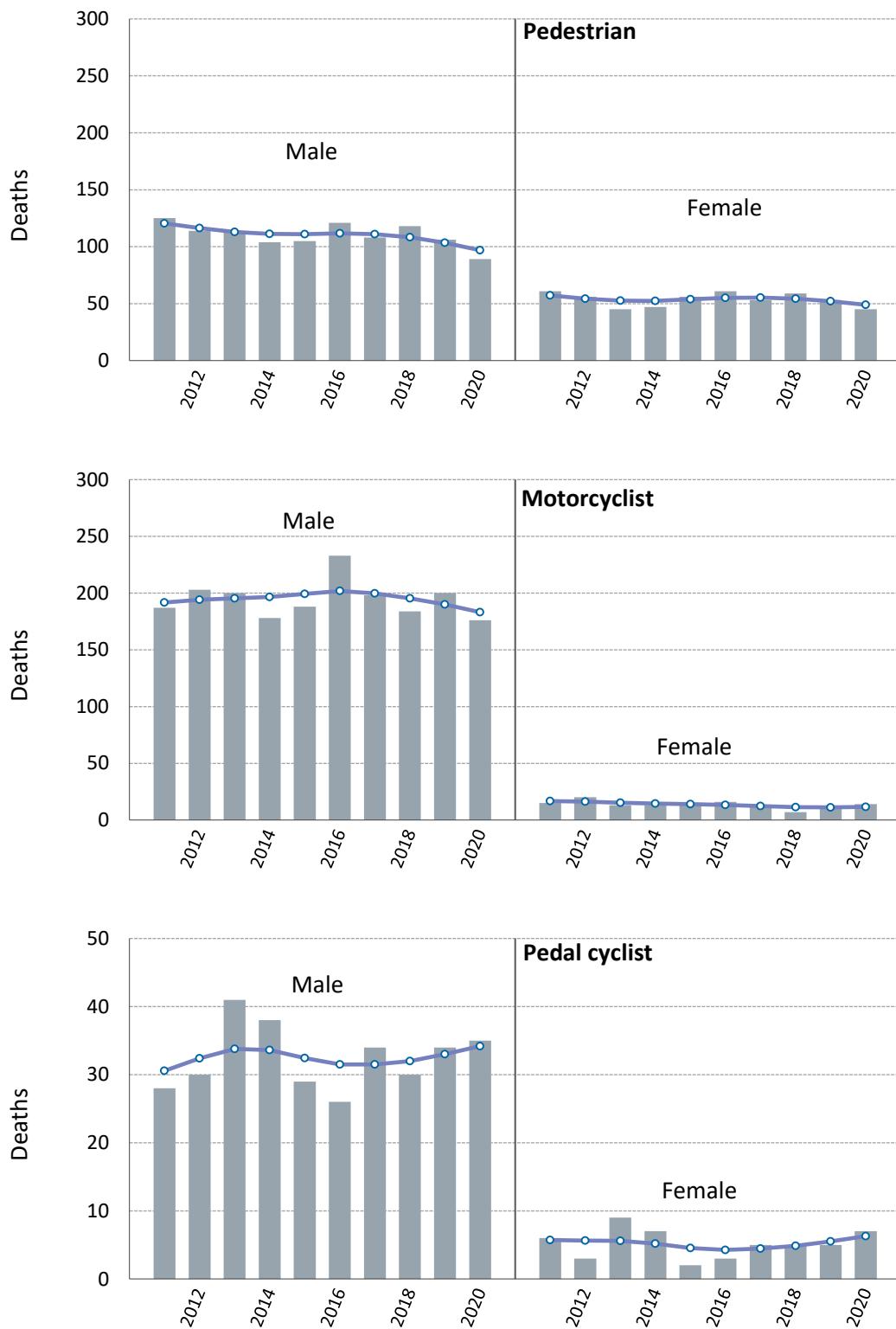
**Table 1.4** Deaths by gender

	<i>Male</i>	<i>Female</i>	<i>Total<sup>a</sup></i>
2011	982	370	1,277
2012	920	355	1,300
2013	931	369	1,187
2014	852	334	1,151
2015	819	331	1,204
2016	866	338	1,292
2017	954	337	1,222
2018	897	324	1,134
2019	841	293	1,186
2020	915	280	1,106
% change 2019-2020	8.8	-4.4	-6.7
Ave. trend change p.a. (%)	-0.6	-2.7	-1.2

a Includes cases where gender is unspecified or unknown.

**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
<b>All road users<sup>a</sup></b>									
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	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	296	211	278	93	154	36	31	7	1,106
% change 2019-2020	-16.1	-20.7	26.9	-18.4	-5.5	24.1	-13.9	16.7	-6.7
Ave. trend change p.a. (%)	-0.7	-2.1	-1.0	-0.6	-1.5	1.6	-2.9	-2.8	-1.2
<b>Driver</b>									
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	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	144	104	135	47	81	18	11	3	543
% change 2019-2020	-13.3	-8.0	20.5	-21.7	-1.2	5.9	-31.3	-25.0	-4.7
Ave. trend change p.a. (%)	-0.7	-2.1	0.2	0.5	-0.1	2.6	-2.5	-0.2	-0.6
<b>Passenger</b>									
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	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	48	17	30	7	12	4	188
% change 2019-2020	-33.3	-37.5	29.7	88.9	-16.7	250.0	-7.7	-	-8.3
Ave. trend change p.a. (%)	-3.0	-5.1	-5.1	-4.6	-0.6	-0.3	-0.9	-	-3.3

**Table 1.5** Deaths by jurisdiction and road user (continued)

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Pedestrian</b>									
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	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
% change 2019-2020	6.7	-40.8	88.9	-61.9	-35.3	66.7	-25.0	-100.0	-13.2
Ave. trend change p.a. (%)	1.0	-2.0	1.5	-3.2	-8.4	-2.3	-8.4	-	-1.4
<b>Motorcyclist<sup>b</sup></b>									
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	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	50	32	54	19	26	6	3	0	190
% change 2019-2020	-26.5	-25.6	20.0	11.8	-3.7	-14.3	0.0	0.0	-9.5
Ave. trend change p.a. (%)	-0.5	-1.5	0.3	0.7	-1.6	6.8	0.4	-	-0.6
<b>Pedal cyclist<sup>b</sup></b>									
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
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	14	13	7	2	5	0	1	0	42
% change 2019-2020	0.0	18.2	16.7	-71.4	400.0	0.0	-	0.0	7.7
Ave. trend change p.a. (%)	2.7	5.4	-6.0	1.3	-3.0	-	-	-	0.5

a Includes cases where road user type is unknown.

b Includes billion passengers.

**Table 1.6** Deaths by jurisdiction and age group

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>0-16 years</b>									
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
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
% change 2019-2020	66.7	-30.0	7.1	0.0	14.3	-	-33.3	-	17.0
Ave. trend change p.a. (%)	-4.5	-8.1	-6.9	-4.6	-4.2	-	-5.0	-	-5.7
<b>17-25 years</b>									
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	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	55	33	53	23	30	4	10	1	209
% change 2019-2020	-9.8	-37.7	-3.6	4.5	-9.1	-42.9	42.9	-	-12.2
Ave. trend change p.a. (%)	-2.6	-5.8	-1.0	5.3	-3.6	5.4	0.7	-	-2.2
<b>26-39 years</b>									
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	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	79	60	74	24	39	6	9	2	293
% change 2019-2020	16.2	13.2	48.0	0.0	11.4	20.0	-55.0	100.0	14.5
Ave. trend change p.a. (%)	1.6	0.7	-1.9	1.3	-2.4	0.9	-0.2	-2.3	-0.2

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

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>40–64 years</b>									
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	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	85	64	87	21	51	18	7	2	335
% change 2019-2020	-30.3	-19.0	40.3	-36.4	-12.1	100.0	16.7	-33.3	-9.9
Ave. trend change p.a. (%)	-1.4	-2.0	-0.2	-4.3	0.7	3.1	-7.3	-	-1.2
<b>65–74 years</b>									
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	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
% change 2019-2020	-41.0	-40.9	50.0	-66.7	-33.3	0.0	-	0.0	-27.6
Ave. trend change p.a. (%)	2.0	-2.1	0.8	0.7	-3.0	-5.4	-	-	-0.1
<b>≥ 75 years</b>									
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	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	39	30	28	17	16	3	1	0	134
% change 2019-2020	-27.8	-38.8	16.7	-10.5	6.7	-50.0	-	-100.0	-20.2
Ave. trend change p.a. (%)	-0.2	-0.5	2.7	-1.4	1.0	-1.6	-	-	0.0

**Table 1.7** Deaths by road user and age group

	<i>Driver</i>	<i>Passenger</i>	<i>Pedestrian</i>	<i>Motorcyclist<sup>a</sup></i>	<i>Pedal cyclist<sup>a</sup></i>	<i>All road users<sup>b</sup></i>
<b>0–16 years</b>						
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
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
% change 2019–2020	0.0	-3.2	66.7	50.0	66.7	17.0
Ave. trend change p.a. (%)	-9.0	-6.8	-1.8	-8.0	-	-5.7
<b>17–25 years</b>						
2011	132	77	21	47	3	280
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	111	54	12	29	1	209
% change 2019–2020	4.7	-8.5	-47.8	-32.6	-83.3	-12.2
Ave. trend change p.a. (%)	-2.0	-3.0	-1.4	-3.2	-6.6	-2.2
<b>26–39 years</b>						
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	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	155	33	36	60	7	293
% change 2019–2020	16.5	-17.5	63.6	7.1	40.0	14.5
Ave. trend change p.a. (%)	0.7	-2.1	0.2	-1.1	-0.4	-0.2

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

	<i>Driver</i>	<i>Passenger</i>	<i>Pedestrian</i>	<i>Motorcyclist<sup>a</sup></i>	<i>Pedal cyclist<sup>a</sup></i>	<i>All road users<sup>b</sup></i>
<b>40–64 years</b>						
2011	197	42	55	85	19	398
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	151	36	41	85	22	335
% change 2019-2020	-24.1	38.5	5.1	-3.4	22.2	-9.9
Ave. trend change p.a. (%)	-1.7	-2.8	-1.9	0.0	1.6	-1.2
<b>65–74 years</b>						
2011	41	14	18	6	4	83
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
% change 2019-2020	2.2	-60.0	-55.6	-55.6	33.3	-27.6
Ave. trend change p.a. (%)	0.6	-3.7	-4.2	7.4	-2.1	-0.1
<b>≥ 75 years</b>						
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
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	5	3	134
% change 2019-2020	-8.3	-6.9	-54.2	66.7	-25.0	-20.2
Ave. trend change p.a. (%)	1.9	-2.0	-2.6	3.4	3.4	0.0

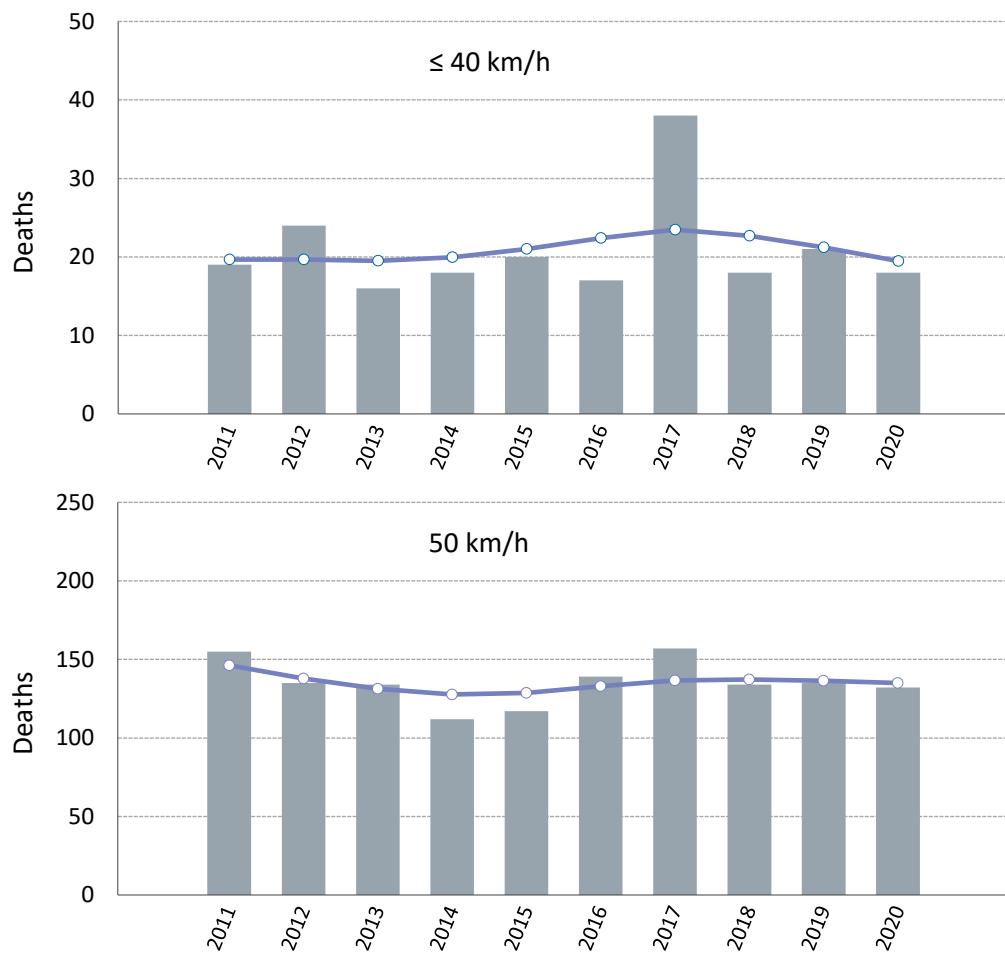
a Includes billion passengers.

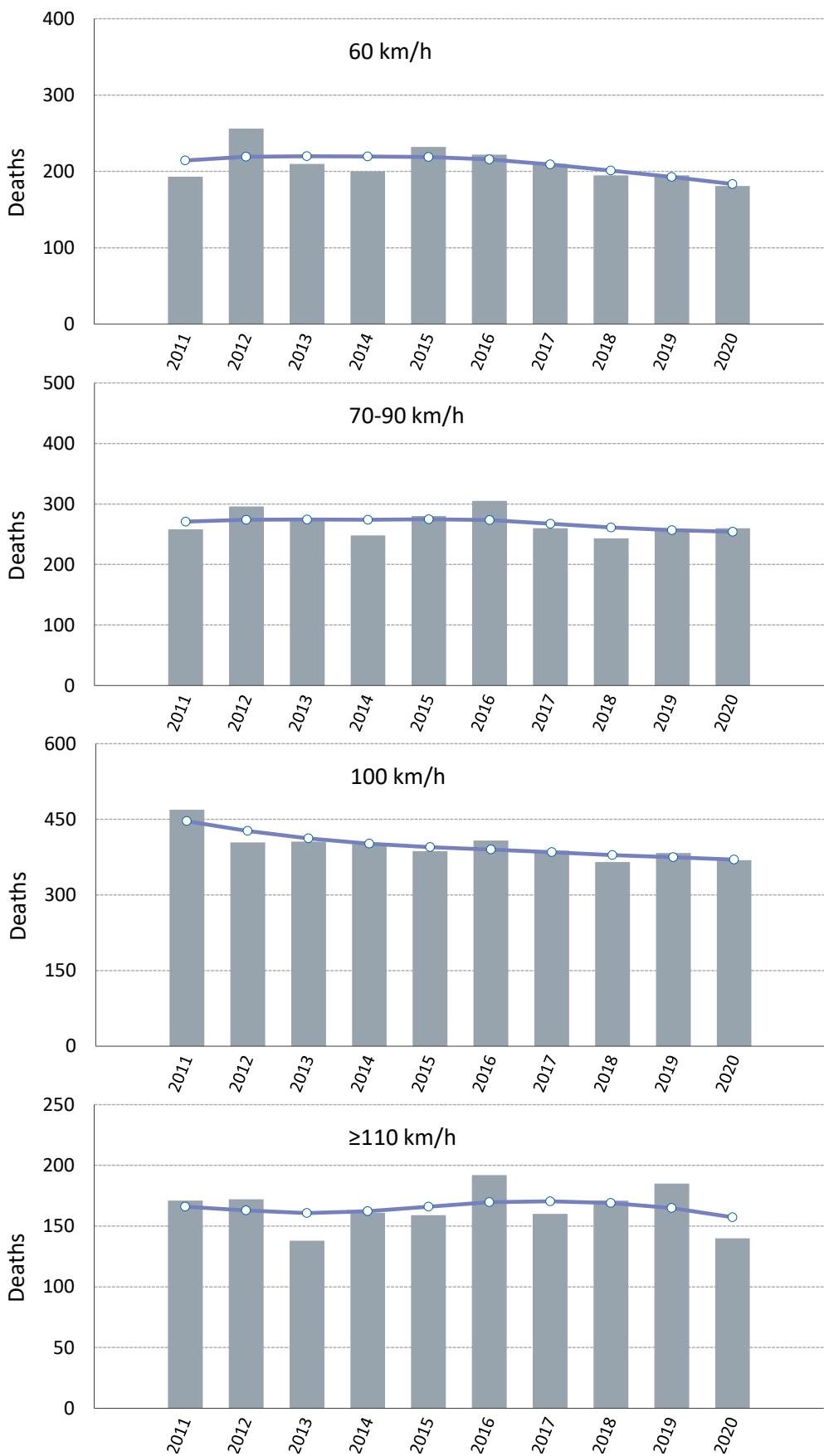
b Includes cases where road user type is unknown.

**Table 1.8**  
**Deaths by posted speed limit**

	$\leq 40 \text{ km/h}$	$50 \text{ km/h}$	$60 \text{ km/h}$	$70\text{-}90 \text{ km/h}$	$100 \text{ km/h}$	$\geq 110 \text{ km/h}$	Total <sup>a</sup>
2011	19	155	193	258	469	171	1,277
2012	24	135	256	296	404	172	1,300
2013	16	134	210	274	406	138	1,187
2014	18	112	200	248	401	161	1,151
2015	20	117	232	280	387	159	1,204
2016	17	139	222	305	408	192	1,292
2017	38	157	210	260	388	160	1,222
2018	18	134	195	243	365	171	1,134
2019	21	135	195	256	383	185	1,186
2020	18	132	181	260	369	140	1,106
% change 2019-2020	-14.3	-2.2	-7.2	1.6	-3.7	-24.3	-6.7
Ave. trend change p.a. (%)	0.8	-0.2	-1.7	-0.8	-1.9	0.0	-1.2

a Includes cases where posted speed limit is unknown.

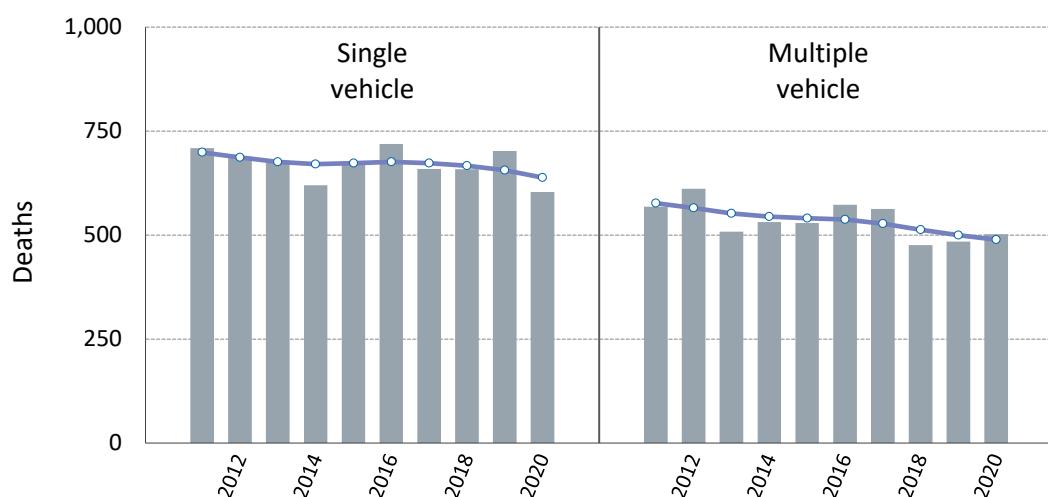
**Figure 1.5**  
**Deaths by posted speed limit, with trends**

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

**Table 1.9** Deaths by crash type

	<i>Single vehicle crash</i>	<i>Multiple vehicle crash</i>	<i>Total<sup>a</sup></i>
2011	709	568	1,277
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	604	502	1,106
% change 2019-2020	-14.0	3.7	-6.7
Ave. trend change p.a. (%)	-0.7	-1.7	-1.2

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

**Figure 1.6** Deaths by crash type, with trends**Table 1.10** Deaths by common crash sub-types<sup>a</sup>

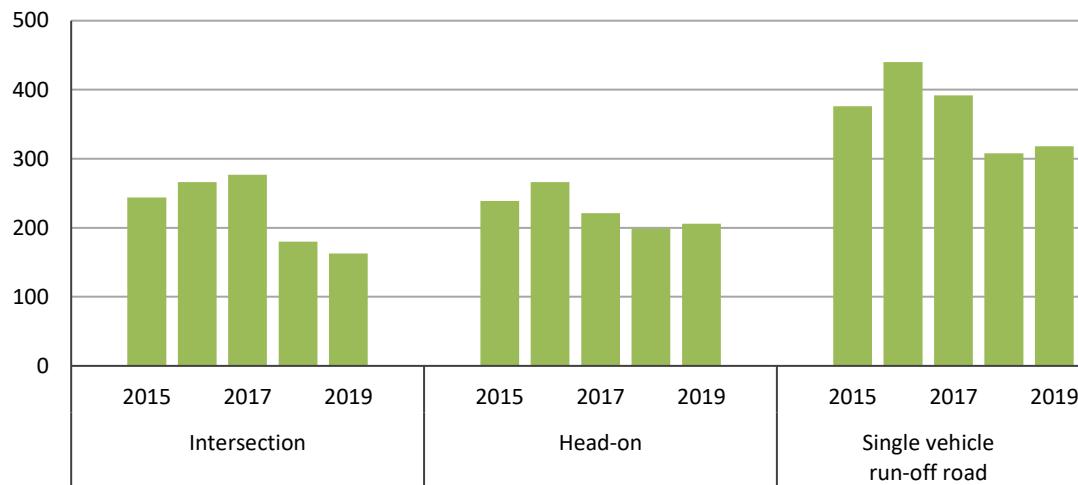
	<i>Intersection</i>	<i>Head-on</i>	<i>Single vehicle run-off road<sup>b</sup></i>
2011	286	250	-
2012	287	270	-
2013	256	210	435
2014	233	218	403
2015	244	239	411
2016	266	266	471
2017	277	221	426
2018	180	199	407
2019	163	206	442

Ave. trend change p.a. (%) -5.4 -2.3 0.4

a Categories not mutually exclusive.

b Full national data available from 2013

Source National Crash Database

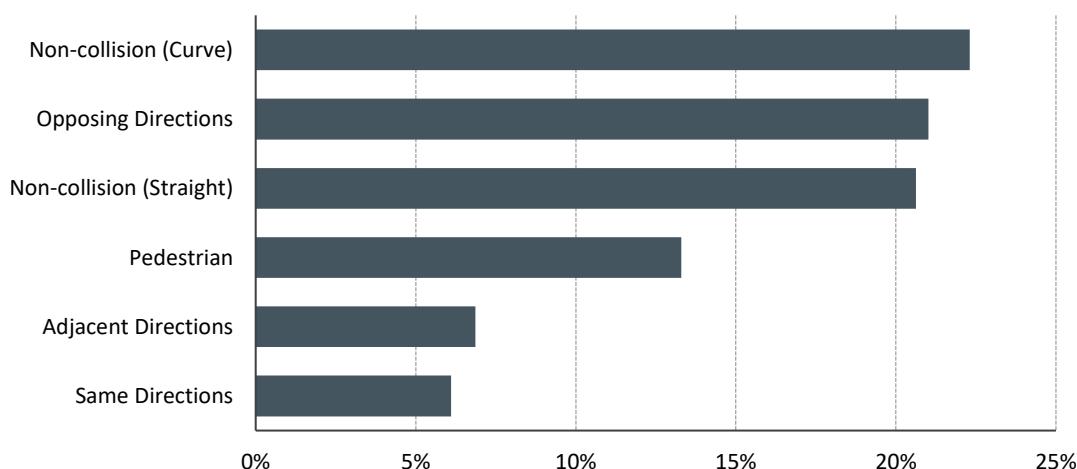
**Figure 1.7** Deaths by common crash sub-types, 2015-2019**Table 1.11** Deaths by common DCA/RUM<sup>a</sup> crash code groups

	Opposing Directions	Non-collision (Straight)	Non-collision (Curve)	Pedestrian	Adjacent Directions	Same Directions	Total <sup>b</sup>
2011	258	249	239	158	92	58	1,277
2012	273	278	235	156	82	66	1,299
2013	238	293	254	152	84	70	1,185
2014	243	258	221	146	90	67	1,150
2015	269	243	268	154	92	52	1,205
2016	294	260	299	170	80	77	1,295
2017	253	232	280	154	88	83	1,223
2018	214	243	241	173	78	83	1,135
2019	240	268	260	152	77	74	1,184
Ave. trend change p.a. (%)	-1.2	-0.9	1.5	0.6	-1.5	3.6	-0.9

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, 2015-2019 combined

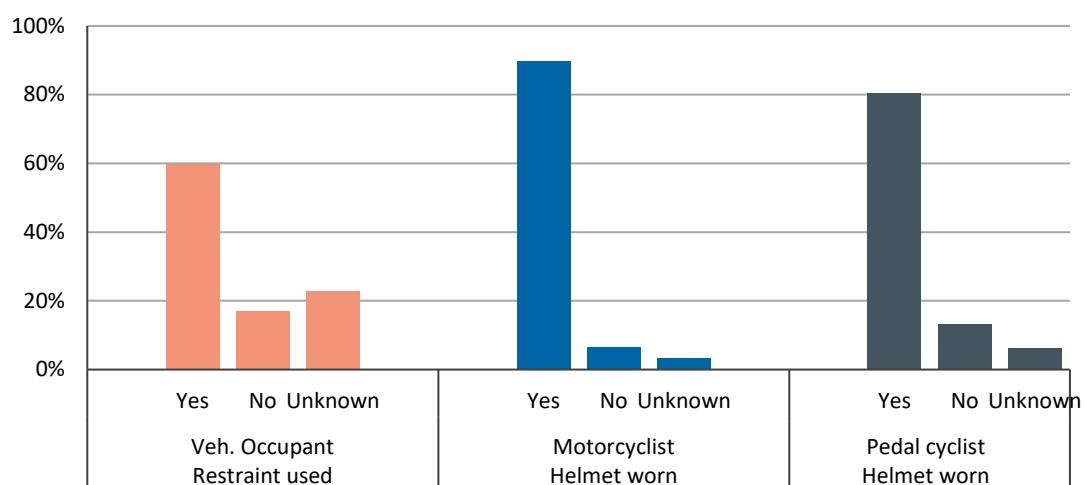
**Table 1.12 Safety device wearing rates for killed road users**

	<i>Restraint used</i>	<i>Not used</i>	<i>Unknown or not applicable</i>	<i>Total</i>
<b>Vehicle occupant</b>				
2011	484	181	193	858
2012	509	153	207	869
2013	447	141	170	758
2014	437	160	164	761
2015	484	177	147	808
2016	533	156	142	831
2017	507	130	164	801
2018	426	124	175	725
2019	444	139	189	772
Ave. trend change p.a. (%)	-0.7	-3.1	-1.3	-1.3
 <b>Motorcyclist<sup>a</sup></b>				
	<i>Helmet used</i>	<i>Not used</i>	<i>Unknown or not applicable</i>	<i>Total</i>
2011	172	15	12	199
2012	188	14	19	221
2013	186	21	7	214
2014	172	8	11	191
2015	181	13	7	201
2016	220	21	10	251
2017	186	16	10	212
2018	176	11	4	191
2019	191	14	7	212
Ave. trend change p.a. (%)	0.8	-1.0	-9.8	0.1
 <b>Pedal cyclist<sup>a</sup></b>				
	<i>2011</i>	<i>2012</i>	<i>2013</i>	<i>2014</i>
2011	24	10	1	35
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
Ave. trend change p.a. (%)	1.8	-9.6	1.8	-0.4

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,  
2017-2019 combined****Table 1.13****Deaths by validity of operators' licences**

	All operators valid licence	Any operators with invalid licence	Unknown	Total
2011	868	111	105	1,084
2012	877	118	106	1,101
2013	808	95	104	1,007
2014	721	95	135	951
2015	773	105	150	1,028
2016	810	119	153	1,082
2017	776	99	167	1,042
2018	710	95	151	956
2019	747	96	156	999
Ave. trend change p.a. (%)	-2.0	-1.5	6.4	-0.9

Note

Excludes Western Australia.

'Operators' comprises Drivers and Motorcycle riders.

Source

National Crash Database

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

	Yes	Total deaths
2011	173	811
2012	142	835
2013	149	780
2014	131	720
2015	136	792
2016	141	809
2017	152	804
2018	143	763
2019	133	756

Ave. trend change p.a. (%)

-1.5

-0.6

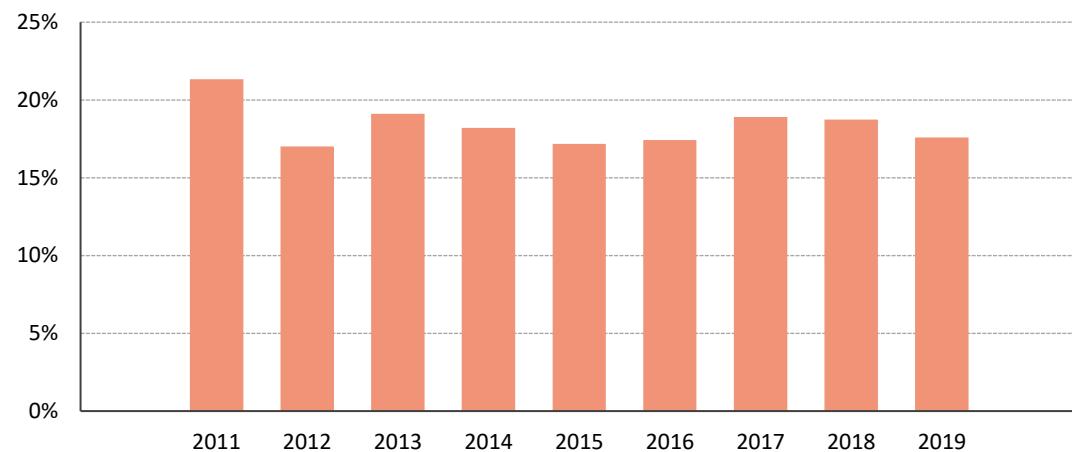
Note

Excludes Western Australia and Victoria.

'Operators' comprises drivers and motorcycle riders.

Source

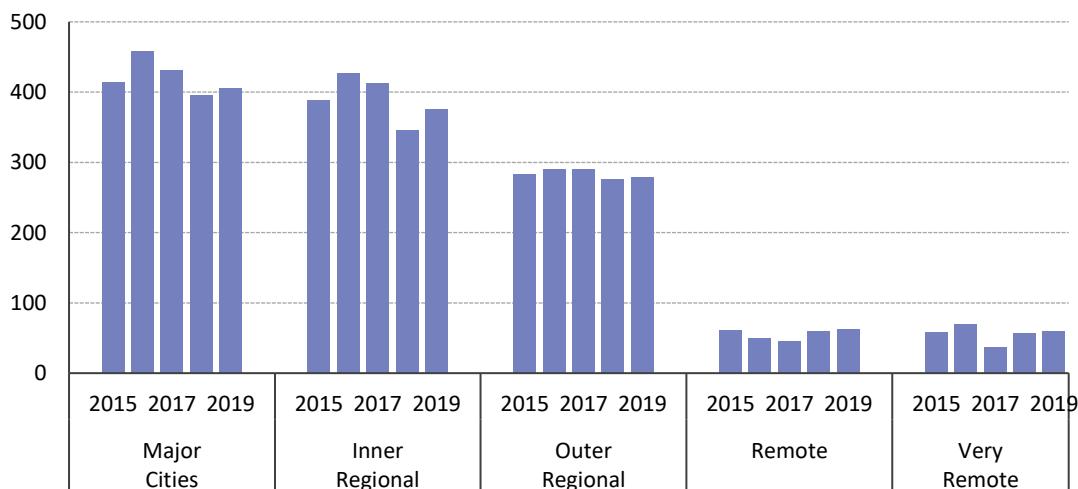
National Crash Database

**Figure 1.10 Proportion of deaths that involved an operator failing an alcohol test****Table 1.15 Deaths by Remoteness Area<sup>a</sup>**

	Major Cities	Inner Regional	Outer Regional	Remote	Very Remote	Total <sup>b</sup>
2011	438	411	285	68	64	1,277
2012	456	457	274	45	58	1,299
2013	420	400	236	70	56	1,185
2014	377	394	242	61	67	1,150
2015	414	389	283	61	58	1,205
2016	458	427	290	49	69	1,295
2017	431	413	290	45	37	1,223
2018	396	345	276	59	57	1,135
2019	406	376	279	63	60	1,184
Ave. trend change p.a. (%)	-0.8	-1.7	0.9	-1.0	-1.8	-0.9

a See Glossary.  
b Includes undetermined Remoteness Area.

Sources ABS 2021d and National Crash Database

**Figure 1.11 Deaths by Remoteness Area, 2015-2019**

**Table 1.16 Deaths by Urban and Non-Urban area<sup>a</sup>**

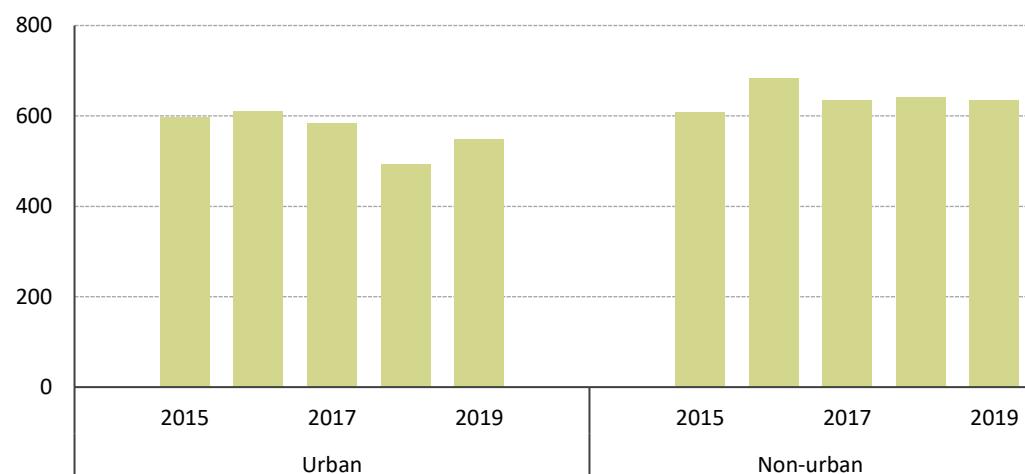
	<i>Urban area</i>	<i>Non-urban area</i>	<i>Total<sup>b</sup></i>
2011	572	694	1,277
2012	623	667	1,299
2013	541	641	1,185
2014	518	623	1,150
2015	597	608	1,205
2016	609	684	1,295
2017	583	634	1,223
2018	493	641	1,135
2019	549	635	1,184

Ave. trend change p.a.(%)

a See Glossary.

b Includes undetermined Urban Area.

Sources ABS 2021b and National Crash Database

**Figure 1.12 Deaths by Urban and Non-Urban area****Table 1.17 Deaths by road type**

	<i>National or State Highway</i>	<i>Arterial</i>	<i>Sub-arterial</i>	<i>Collector Road<sup>a</sup></i>	<i>Local</i>	<i>Other<sup>b</sup></i>	<i>Total<sup>c</sup></i>
2011	409	289	232	80	237	30	1,277
2012	421	309	219	87	239	24	1,299
2013	382	263	178	95	242	25	1,185
2014	348	296	201	77	214	14	1,150
2015	351	327	202	104	215	6	1,205
2016	363	343	233	91	249	16	1,295
2017	338	279	209	106	263	28	1,223
2018	349	261	187	81	223	34	1,135
2019	371	296	168	67	262	20	1,184

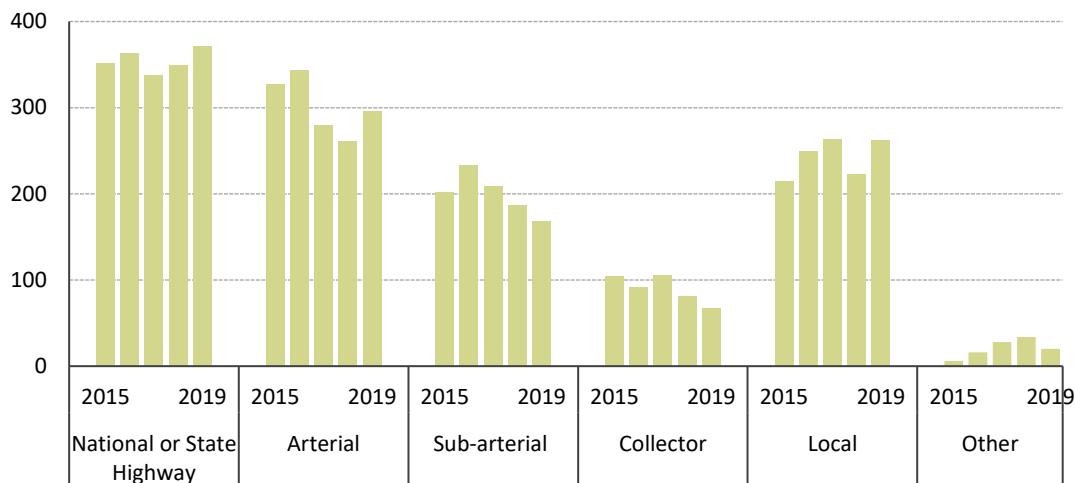
Ave. trend change p.a.(%)

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, 2015-2019****Table 1.18 Hospitalised injuries – by road user**

	Driver	Passenger	Pedestrian	Motorcyclist <sup>a</sup>	Pedal cyclist <sup>a</sup>	Total <sup>b</sup>
2011	11,601	5,175	2,760	7,571	5,393	34,082
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	6,958	39,598
2019 <sup>c</sup>	-	-	-	-	-	-

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%.

Source DITRD&amp;C 2021

**Table 1.19 Hospitalised injuries – by age group**

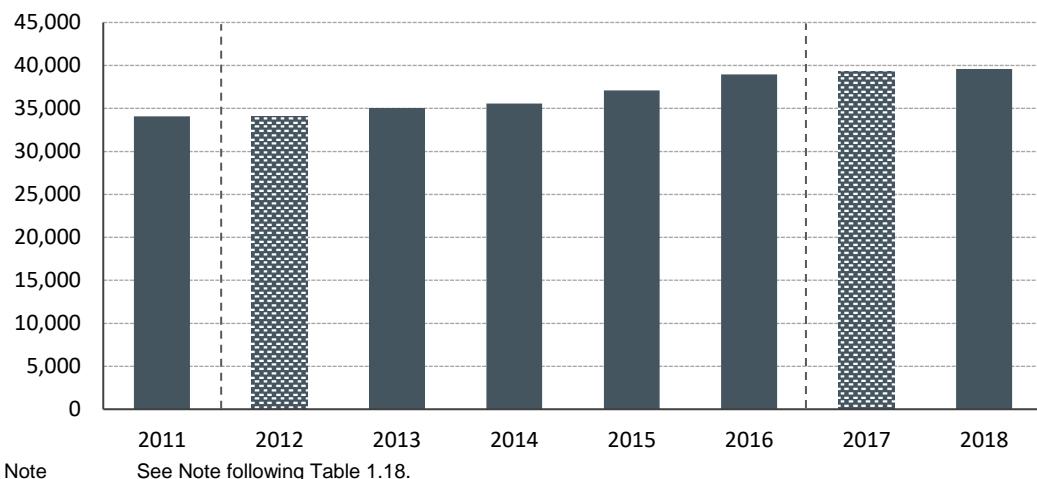
	0-16	17-25	26-39	40-64	65+	Total <sup>a</sup>
2011	3,240	8,098	8,172	10,667	3,905	34,082
2012	3,077	8,037	8,252	10,671	4,054	34,091
2013	3,115	7,852	8,472	11,351	4,269	35,059
2014	2,960	7,728	8,666	11,672	4,525	35,552
2015	3,188	7,880	8,975	12,199	4,840	37,082
2016	3,210	8,471	9,449	12,721	5,094	38,945
2017	3,235	8,468	9,508	12,922	5,197	39,330
2018	3,141	8,306	9,731	12,965	5,453	39,598
2019 <sup>b</sup>	-	-	-	-	-	-

a 'Total' includes cases where ages are unknown.

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

Note See Note following Table 1.18.

Source DITRD&amp;C 2021

**Figure 1.14** Annual hospitalised injuries

Note See Note following Table 1.18.

**Table 1.20** Hospitalised injuries – by Remoteness Area<sup>a</sup> of residence

	Major Cities	Inner Regional	Outer Regional	Remote	Very Remote	Total <sup>b</sup>
2011	21,898	6,911	3,575	691	461	34,082
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 <sup>c</sup>	-	-	-	-	-	-

a See Glossary.

b Includes undetermined Remoteness Area

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

Note See Note following Table 1.18.

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**

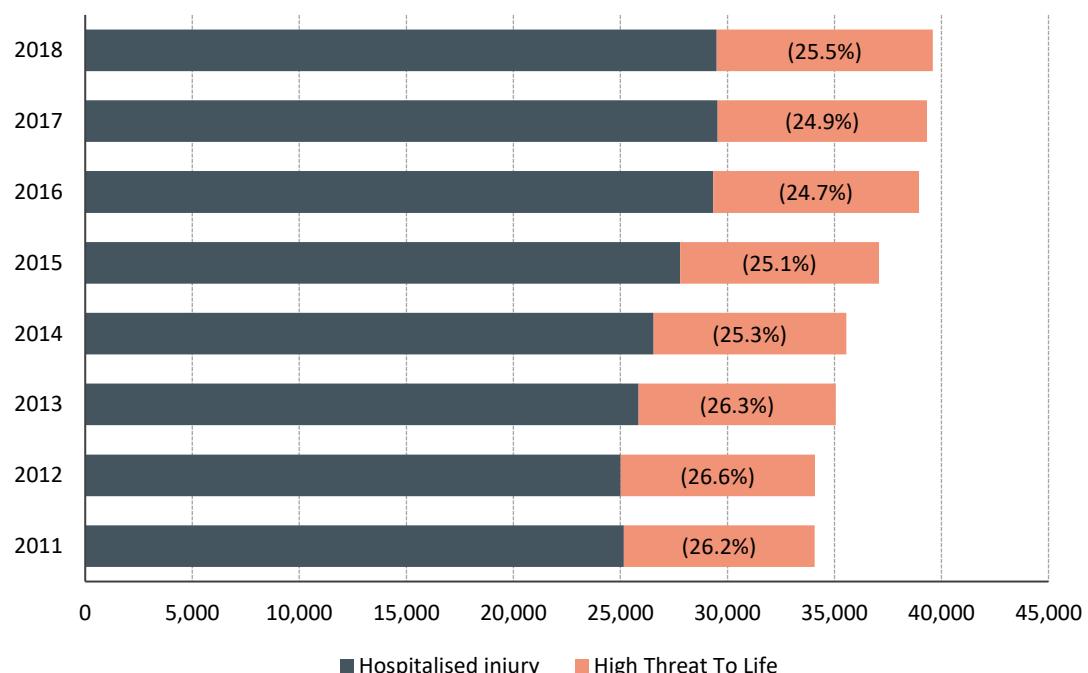
	Hospitalised injury	High Threat To Life <sup>a</sup>	
		Counts	Proportion
2011	34,082	8,925	26.2
2012	34,091	9,080	26.6
2013	35,059	9,207	26.3
2014	35,552	9,003	25.3
2015	37,082	9,292	25.1
2016	38,945	9,605	24.7
2017	39,330	9,790	24.9
2018	39,598	10,097	25.5
2019 <sup>b</sup>	-	-	-

a See Glossary.

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

Note See Note following Table 1.18.

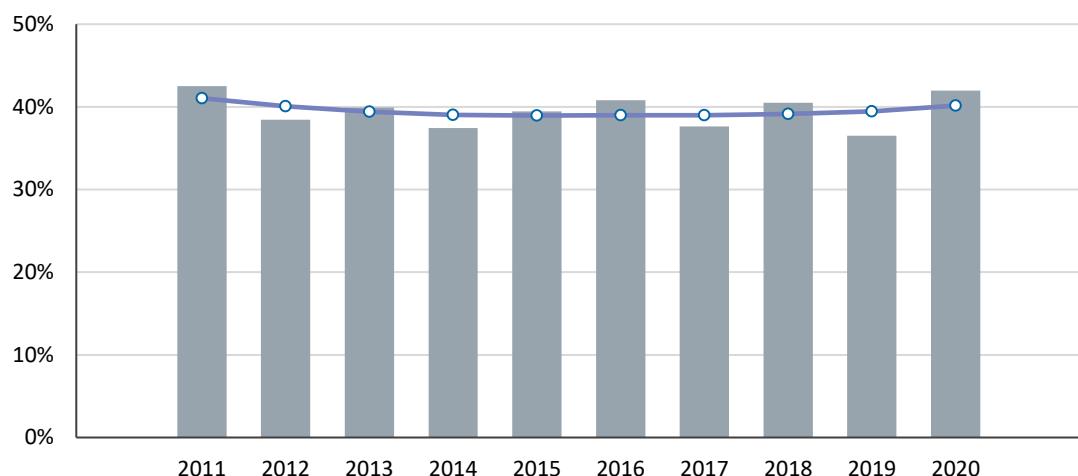
Source DITRD&amp;C 2021

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

**Table I.22** Deaths by Weekday/Weekend

	<i>Weekday</i>	<i>Weekend</i>
2011	734	543
2012	800	500
2013	713	474
2014	720	431
2015	729	475
2016	765	527
2017	762	460
2018	675	459
2019	753	433
2020	642	464
% change 2019-2020	11.6	-5.7
Ave. trend change p.a. (%)	-1.0	-1.4

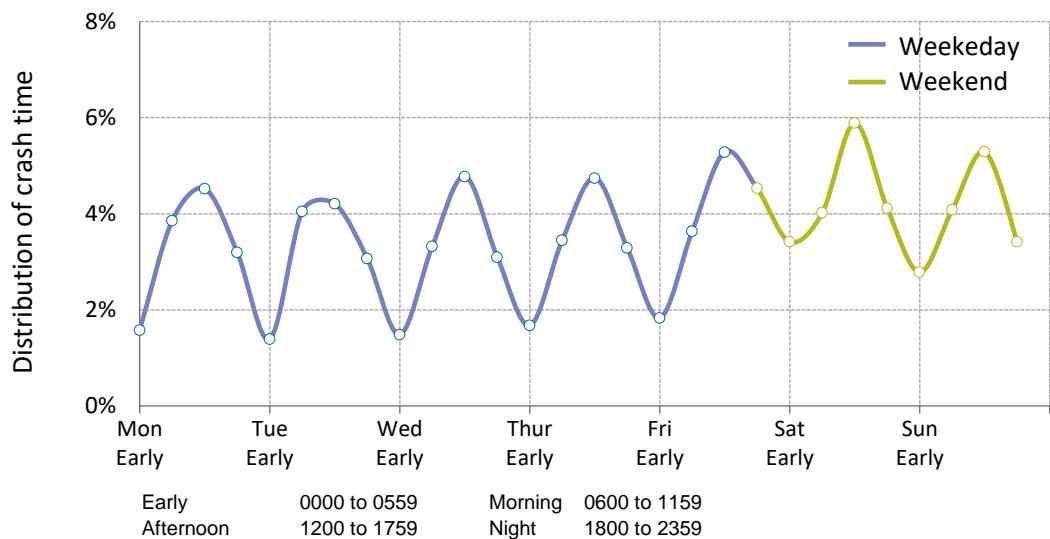
Note      'Weekend' refers to 6pm Friday through to 6am Monday.

**Figure I.16** Proportion of deaths occurring at the weekend, with trend**Table I.23** Fatal crashes by jurisdiction

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	336	261	255	86	171	29	40	12	1,190
2012	316	225	246	90	149	35	33	7	1,101
2013	285	223	199	96	173	31	34	10	1,051
2014	326	231	219	96	140	32	42	14	1,100
2015	356	275	238	76	170	33	40	10	1,198
2016	351	240	228	93	151	31	27	5	1,126
2017	326	202	224	75	145	31	42	9	1,054
2018	329	248	196	110	154	29	28	6	1,100
2019	276	195	251	85	136	30	28	6	1,007
% change 2019-2020	-16.1	-21.4	28.1	-22.7	-11.7	3.4	0.0	0.0	-8.5
Ave. trend change p.a. (%)	-0.5	-1.7	-0.8	0.0	-1.8	-0.8	-3.2	-7.2	-1.1

**Figure 1.17**

**Distribution of time for fatal crashes, 2018-2020 combined**



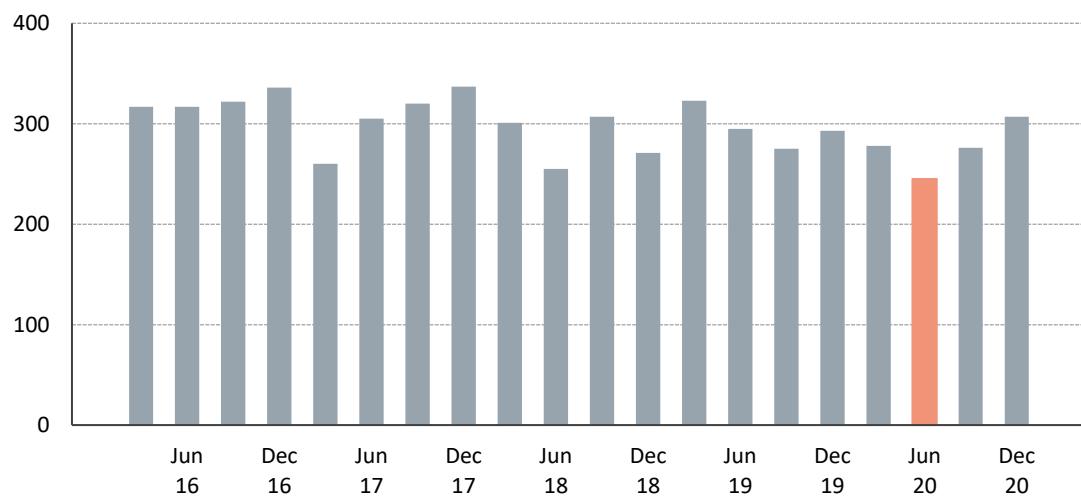
## **Section 2**

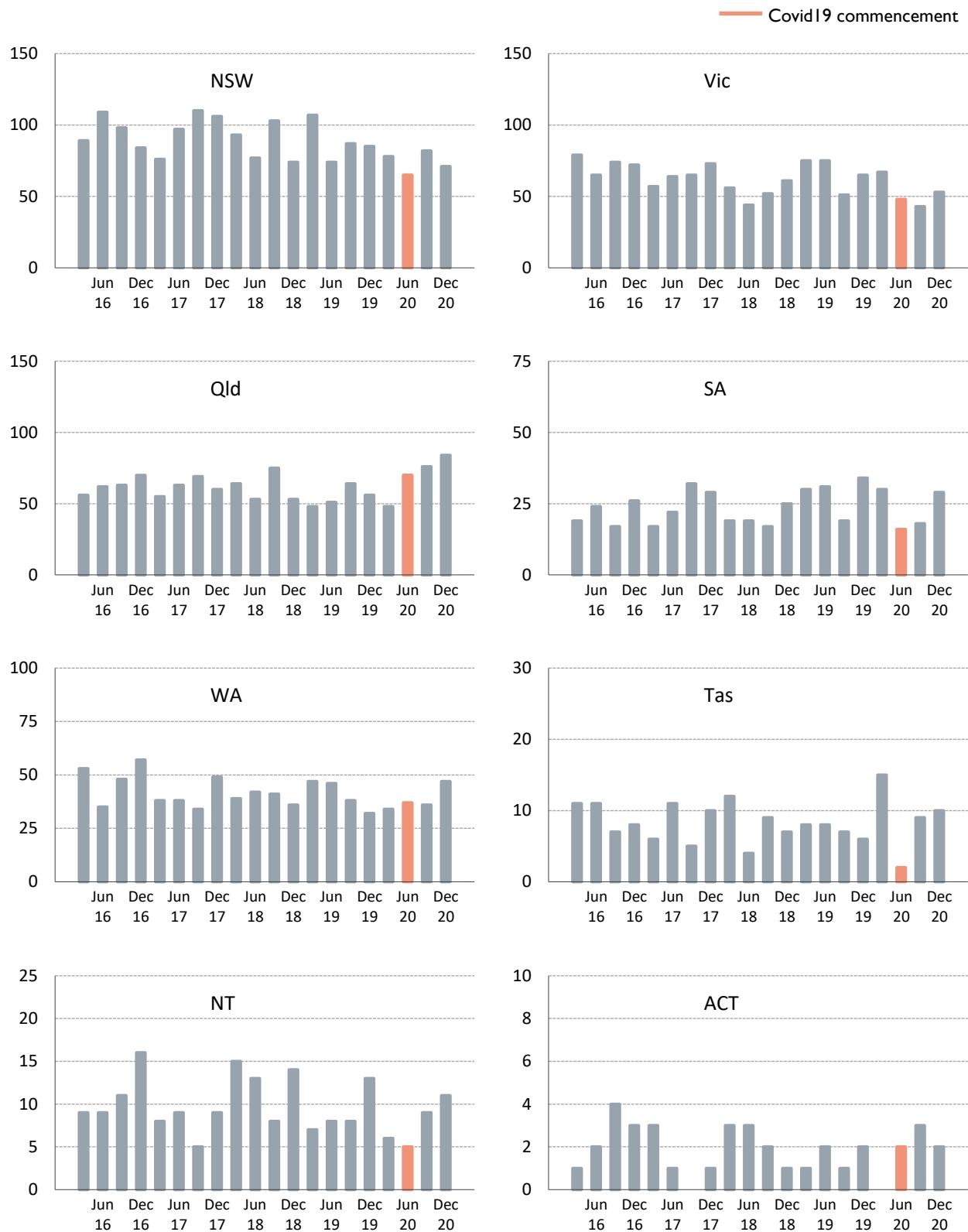
# **COVID19 Analysis**

**Table 2.1** Covid19 Comparisons: Quarterly counts of deaths

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Commencement of Covid19 Lockdown - the 2nd Quarter of 2020</b>									
<b>Quarter ended</b>									
Mar-16	89	79	56	19	53	11	9	1	317
Jun-16	109	65	62	24	35	11	9	2	317
Sep-16	98	74	63	17	48	7	11	4	322
Dec-16	84	72	70	26	57	8	16	3	336
Mar-17	76	57	55	17	38	6	8	3	260
Jun-17	97	64	63	22	38	11	9	1	305
Sep-17	110	65	69	32	34	5	5	0	320
Dec-17	106	73	60	29	49	10	9	1	337
Mar-18	93	56	64	19	39	12	15	3	301
Jun-18	77	44	53	19	42	4	13	3	255
Sep-18	103	52	75	17	41	9	8	2	307
Dec-18	74	61	53	25	36	7	14	1	271
Mar-19	107	75	48	30	47	8	7	1	323
Jun-19	74	75	51	31	46	8	8	2	295
Sep-19	87	51	64	19	38	7	8	1	275
Dec-19	85	65	56	34	32	6	13	2	293
Mar-20	78	67	48	30	34	15	6	0	278
<b>Jun-20</b>	<b>65</b>	<b>48</b>	<b>70</b>	<b>16</b>	<b>37</b>	<b>2</b>	<b>5</b>	<b>2</b>	<b>245</b>
Sep-20	82	43	76	18	36	9	9	3	276
Dec-20	71	53	84	29	47	10	11	2	307

Source Australian Road Deaths Database

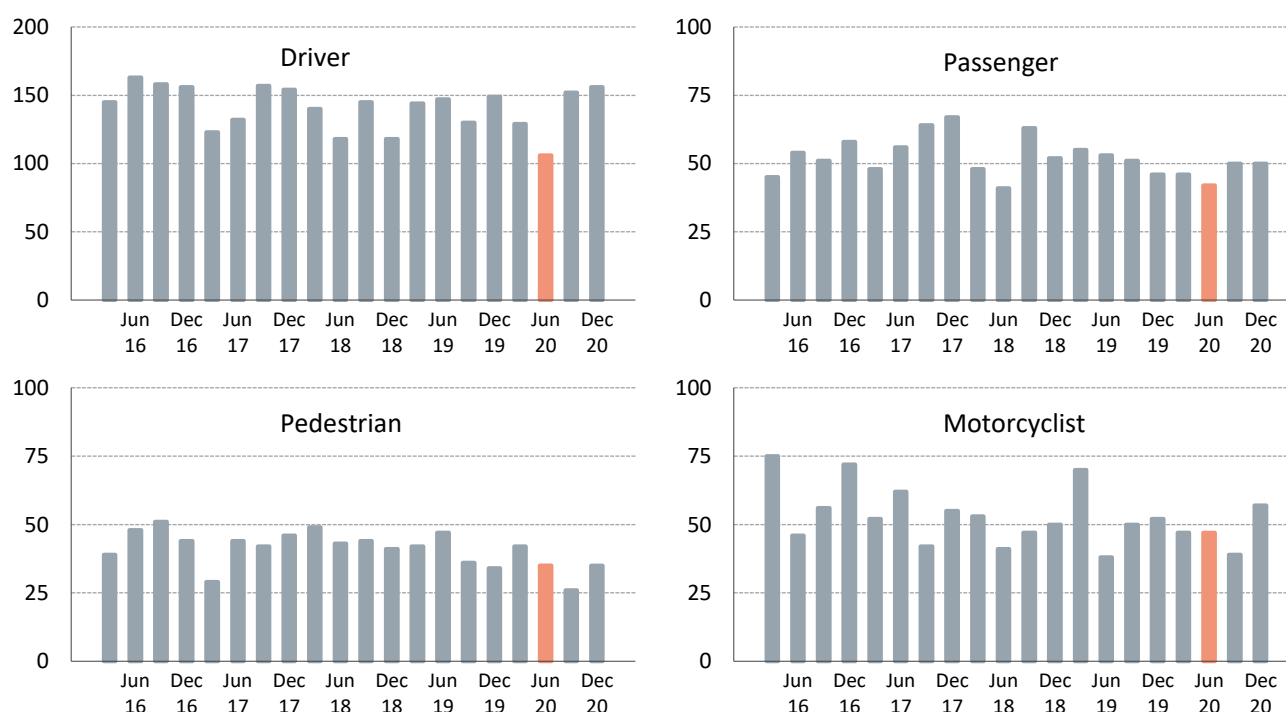
**Figure 2.1** Covid19 Comparisons: Quarterly counts of deaths Australia

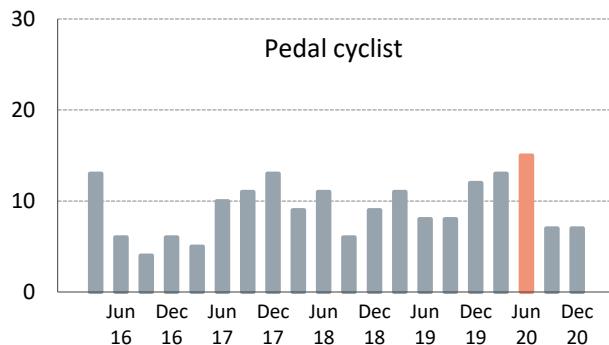
**Figure 2.2****Covid19 Comparisons: Quaterly counts of deaths – by jurisdiction**

**Table 2.2** Covid19 Comparisons: Quarterly counts of deaths – by road user

	Driver	Passenger	Pedestrian	Motorcyclist	Pedal cyclist	Australia
<b>Commencement of Covid19 Lockdown - the 2nd Quarter of 2020</b>						
<b>Quarter ended</b>						
Mar-16	145	45	39	75	13	317
Jun-16	163	54	48	46	6	317
Sep-16	158	51	51	56	4	322
Dec-16	156	58	44	72	6	336
Mar-17	123	48	29	52	5	260
Jun-17	132	56	44	62	10	305
Sep-17	157	64	42	42	11	320
Dec-17	154	67	46	55	13	337
Mar-18	140	48	49	53	9	301
Jun-18	118	41	43	41	11	255
Sep-18	145	63	44	47	6	307
Dec-18	118	52	41	50	9	271
Mar-19	144	55	42	70	11	323
Jun-19	147	53	47	38	8	295
Sep-19	130	51	36	50	8	275
Dec-19	149	46	34	52	12	293
Mar-20	129	46	42	47	13	278
<b>Jun-20</b>	<b>106</b>	<b>42</b>	<b>35</b>	<b>47</b>	<b>15</b>	<b>245</b>
Sep-20	152	50	26	39	7	276
Dec-20	156	50	35	57	7	307

Source Australian Road Deaths Database

**Figure 2.3** Covid19 Comparisons: Quarterly counts of deaths – by road user

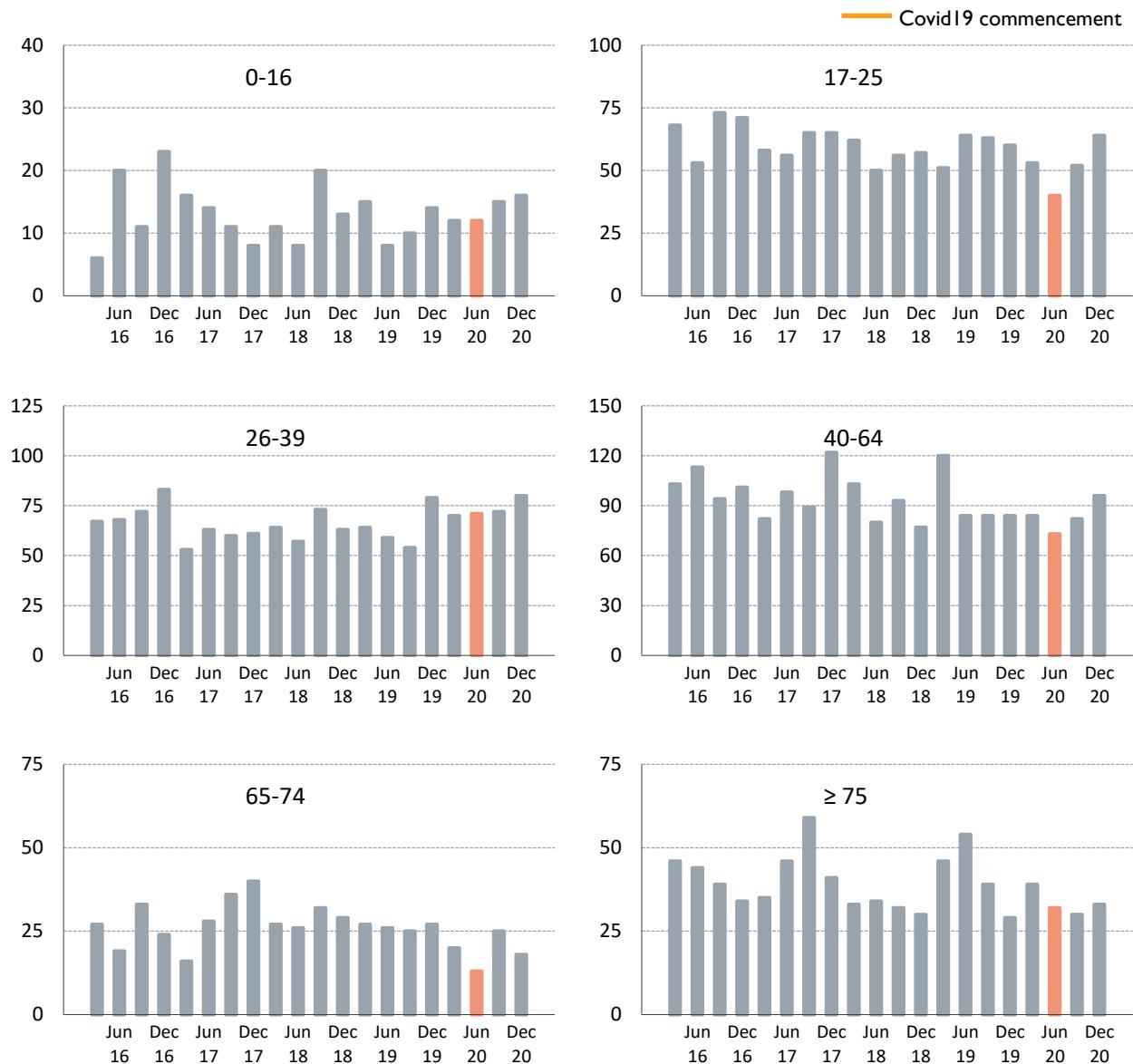
**Figure 2.3****Covid19 Comparisons: Quarterly counts of deaths – by road user (continued)****Table 2.3****Covid19 Comparisons: Quarterly counts of deaths – by age group**

	0 to 16	17 to 25	26 to 39	40 to 64	65 to 74	≥ 75	Australia
<b>Commencement of Covid19 Lockdown - the 2nd Quarter of 2020</b>							
<b>Quarter ended</b>							
Mar-16	6	68	67	103	27	46	317
Jun-16	20	53	68	113	19	44	317
Sep-16	11	73	72	94	33	39	322
Dec-16	23	71	83	101	24	34	336
Mar-17	16	58	53	82	16	35	260
Jun-17	14	56	63	98	28	46	305
Sep-17	11	65	60	89	36	59	320
Dec-17	8	65	61	122	40	41	337
Mar-18	11	62	64	103	27	33	301
Jun-18	8	50	57	80	26	34	255
Sep-18	20	56	73	93	32	32	307
Dec-18	13	57	63	77	29	30	271
Mar-19	15	51	64	120	27	46	323
Jun-19	8	64	59	84	26	54	295
Sep-19	10	63	54	84	25	39	275
Dec-19	14	60	79	84	27	29	293
Mar-20	12	53	70	84	20	39	278
<b>Jun-20</b>	<b>12</b>	<b>40</b>	<b>71</b>	<b>73</b>	<b>13</b>	<b>32</b>	<b>245</b>
Sep-20	15	52	72	82	25	30	276
Dec-20	16	64	80	96	18	33	307

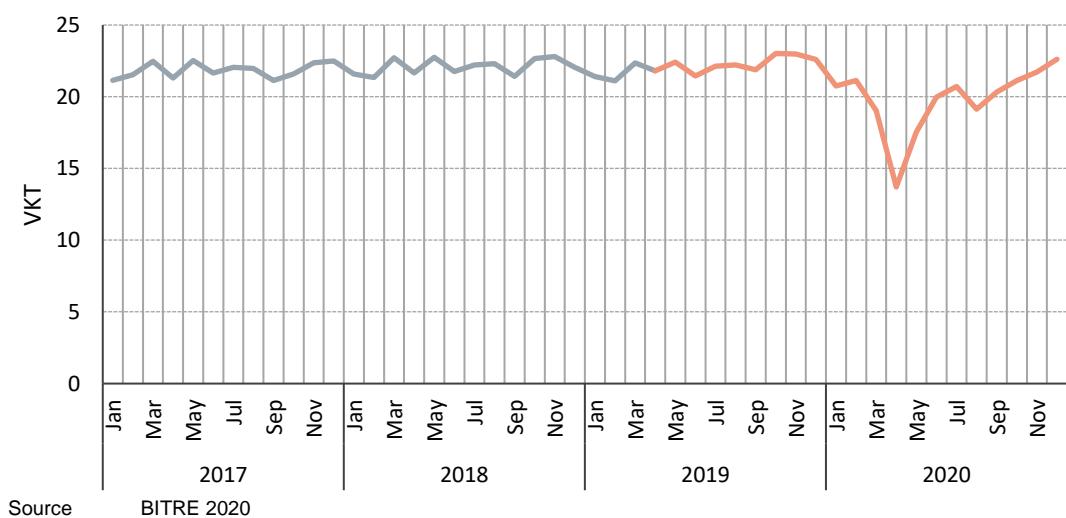
Source

Australian Road Deaths Database

**Figure 2.4 Covid19 Comparisons: Quaterly counts of deaths – by age group**



**Figure 2.5 Monthly estimates of vehicle kilometres travelled, 2017-2020**



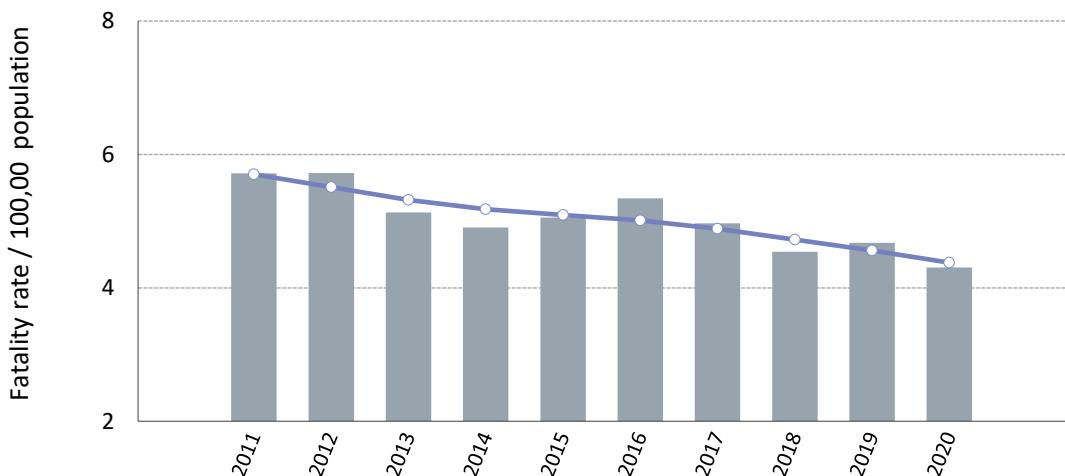
## **Section 3**

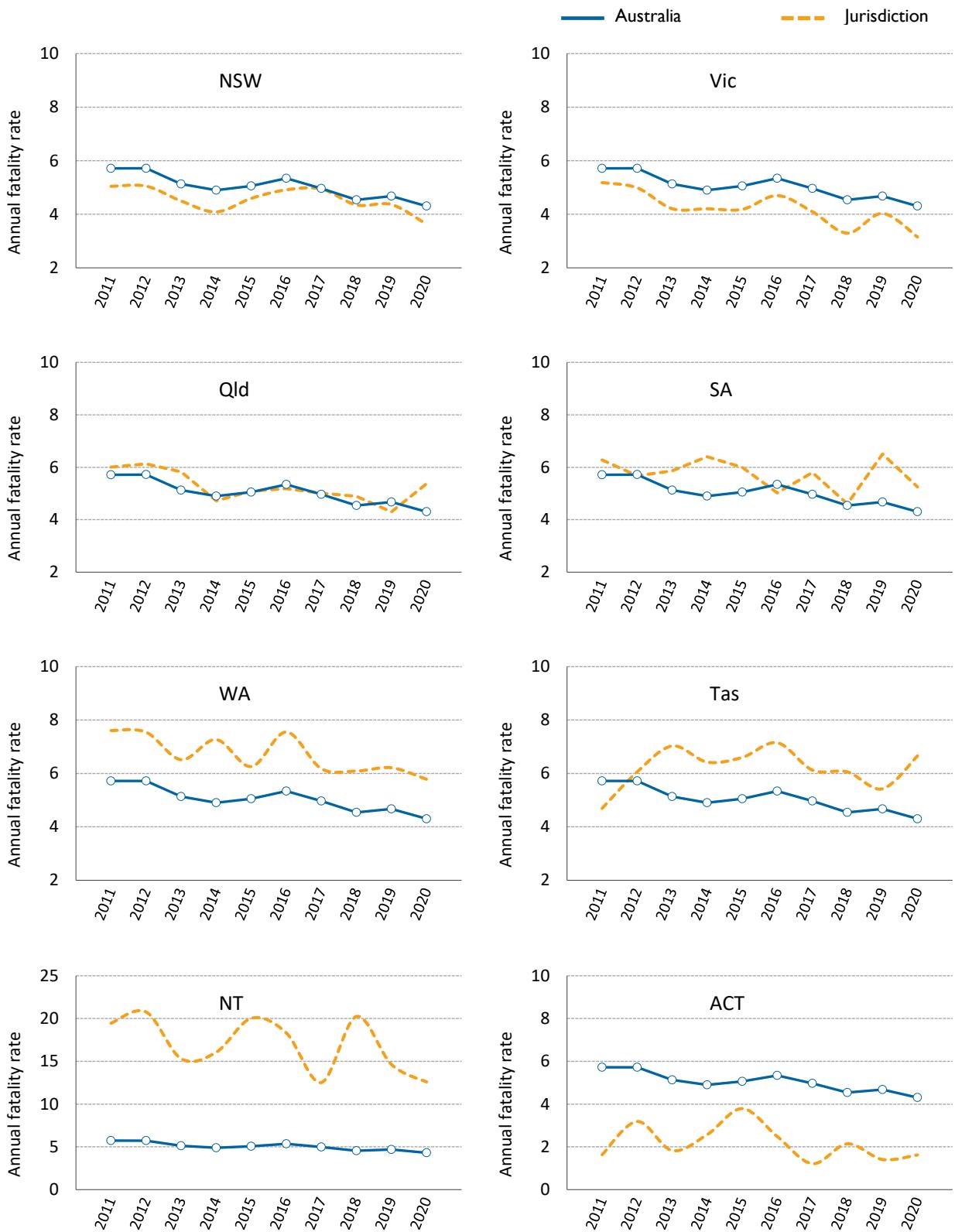
## **RATES**

**Table 3.1** Annual fatality rate per 100,000 population by jurisdiction

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	5.0	5.2	6.0	6.3	7.6	4.7	19.5	1.6	5.7
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	3.6	3.2	5.4	5.3	5.8	6.7	12.6	1.6	4.3
% change 2019-2020	-17.0	-21.9	24.9	-19.2	-7.0	22.7	-13.9	15.3	-8.0
Ave. trend change p.a. (%)	-2.1	-4.2	-2.5	-1.4	-2.7	1.0	-3.5	-4.5	-2.7

Source ABS 2021a and Australian Road Deaths Database

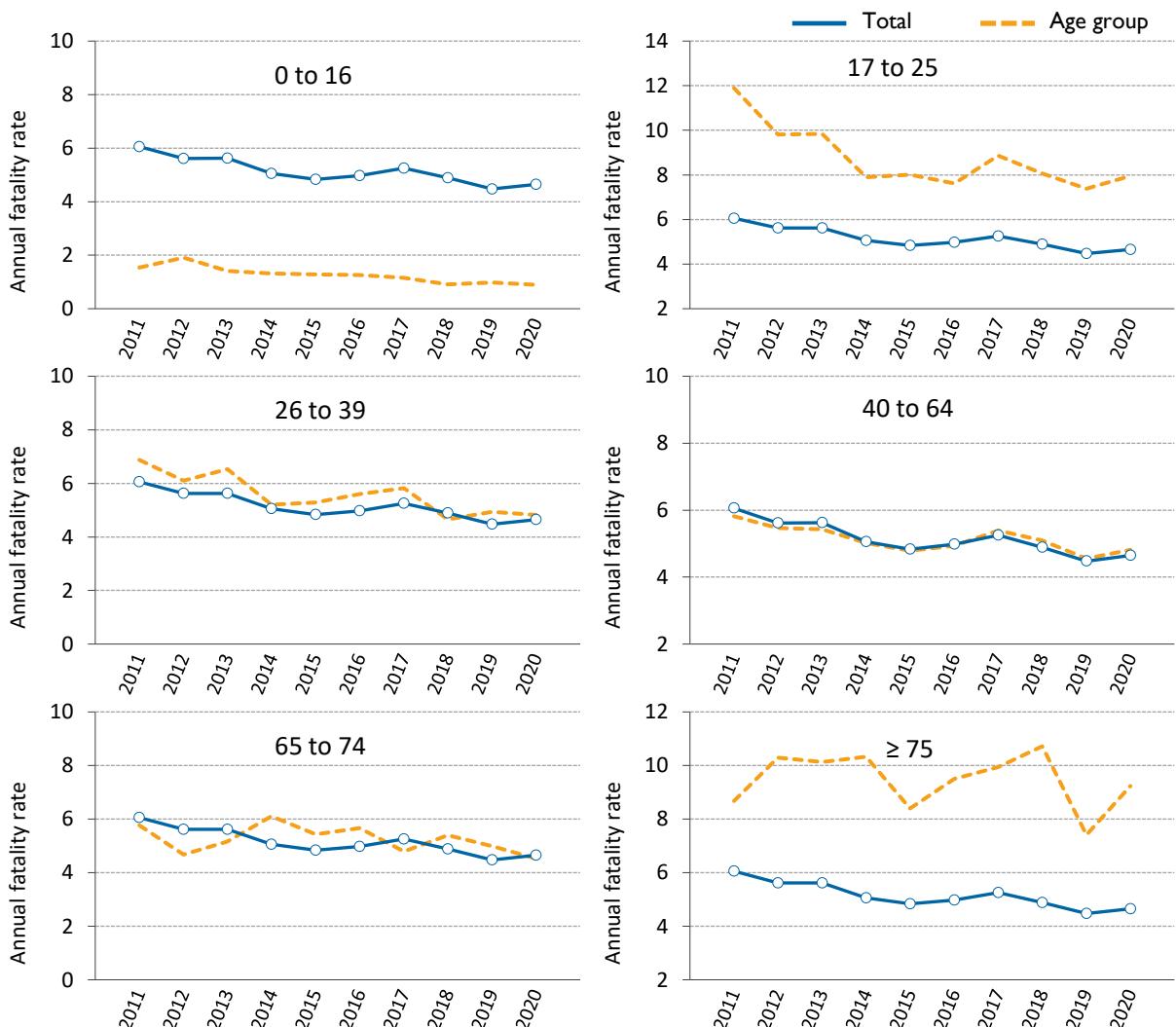
**Figure 3.1** Annual fatality rate per 100,000 population, with trend

**Figure 3.2****Annual fatality rate per 100,000 population by jurisdiction**

**Table 3.2** Annual fatality rate per 100,000 population by age group

	0–16 years	17–25 years	26–39 years	40–64 years	65–74 years	≥ 75 years	All deaths <sup>a</sup>
2011	1.5	11.9	6.9	5.8	5.8	8.7	6.1
2012	1.9	9.8	6.1	5.5	4.7	10.3	5.6
2013	1.4	9.8	6.5	5.4	5.2	10.1	5.6
2014	1.3	7.9	5.2	5.0	6.1	10.3	5.1
2015	1.3	8.0	5.3	4.8	5.4	8.4	4.8
2016	1.3	7.6	5.6	4.9	5.7	9.5	5.0
2017	1.2	8.9	5.8	5.4	4.8	9.9	5.3
2018	0.9	8.1	4.7	5.1	5.4	10.7	4.9
2019	1.0	7.4	4.9	4.6	5.0	7.4	4.5
2020	0.9	8.0	4.8	4.8	4.5	9.2	4.7
% change 2019–2020	-8.5	7.7	-2.3	5.7	-9.3	24.6	3.9
Ave. trend change p.a. (%)	-7.1	-3.8	-3.5	-1.8	-1.3	-0.9	-2.7

<sup>a</sup> Includes cases where age is unknown.  
Source ABS 2021a and Australian Road Deaths Database

**Figure 3.3** Annual fatality rate per 100,000 population by age group

**Table 3.3** Annual fatality rate per 100,000 population by Remoteness Area

	Major Cities	Inner Regional	Outer Regional	Remote	Very Remote	Australia
2011	2.8	10.0	14.4	22.6	30.4	5.7
2012	2.8	11.0	13.7	14.8	27.4	5.7
2013	2.6	9.5	11.7	23.0	26.4	5.1
2014	2.3	9.3	11.9	20.2	32.1	4.9
2015	2.4	9.1	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	21.7	29.9	4.7
% change 2019-2020	0.7	7.6	0.9	7.0	5.2	2.7
Ave. trend change p.a. (%)	-2.7	-2.8	0.5	-0.4	-1.0	-2.4
Source	ABS 2021d and Australian Road Deaths Database					

**Figure 3.4** Annual fatality rate per 100,000 population by Remoteness Area

**Table 3.4** Vehicle occupants<sup>a</sup> – fatality rate per 10,000 registered four-wheeled<sup>b</sup> motor vehicles

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	0.6	0.4	0.6	0.5	0.7	0.4	2.7	0.1	0.5
2012	0.5	0.5	0.6	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	0.5	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	0.7	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
% change 2019-2020	-19.6	-18.2	20.7	-8.3	-7.4	28.1	-20.3	73.6	-7.1
Ave. trend change p.a. (%)	-3.4	-5.1	-3.7	-2.2	-2.1	0.1	-3.5	0.9	-3.4

a Comprises drivers and passengers

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

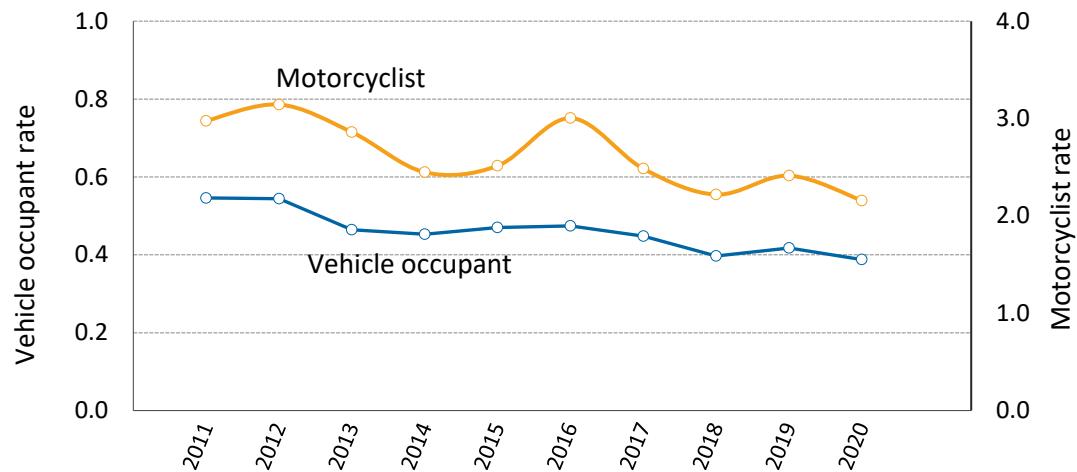
Source ABS 2021c and Australian Road Deaths Database

**Table 3.5** Motorcyclists<sup>a</sup> – fatality rate per 10,000 registered motorcycles

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	2.8	3.1	2.9	4.4	2.8	2.0	3.4	2.5	3.0
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	2.0	1.6	2.6	3.4	2.1	2.9	5.2	0.0	2.2
% change 2019-2020	-28.3	-26.5	18.6	11.6	-3.5	-15.5	5.9	0.0	-10.6
Ave. trend change p.a. (%)	-4.3	-3.9	-2.9	-1.0	-3.7	3.4	0.6	-	-3.5

a Comprises motorcycle riders and pillion passengers.

Source ABS 2021c and Australian Road Deaths Database

**Figure 3.5****Annual fatality rate per 10,000 registered vehicles****Table 3.6****Vehicle occupants<sup>a</sup>— fatality rate per billion four-wheeled motor vehicle vehicle-kilometres-travelled (VKT)**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	3.6	3.1	3.7	3.9	4.8	3.1	17.3	0.8	3.7
2012	3.5	3.3	3.7	4.1	4.7	3.6	15.2	1.1	3.7
2013	2.9	2.6	3.8	4.1	3.6	3.4	9.7	1.1	3.2
2014	2.7	2.6	3.1	4.6	4.2	5.1	10.0	1.6	3.2
2015	2.9	2.8	3.1	4.1	4.3	3.7	14.1	2.6	3.3
2016	3.1	2.8	2.7	3.7	4.8	4.3	16.3	1.5	3.3
2017	3.4	2.6	2.8	3.3	3.8	3.3	8.7	0.7	3.1
2018	2.7	1.9	2.9	3.2	3.8	3.6	12.1	1.0	2.8
2019	2.9	2.3	2.7	4.0	4.1	3.4	13.0	1.0	3.0
2020	2.5	2.1	3.5	3.9	4.1	4.8	10.8	1.8	3.0
% change 2019-2020	-13.0	-10.0	30.2	-0.5	0.1	41.3	-17.4	84.8	0.9
Ave. trend change p.a. (%)	-2.5	-4.4	-2.8	-1.5	-1.4	1.6	-2.7	1.8	-2.6

a Comprises drivers and passengers

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

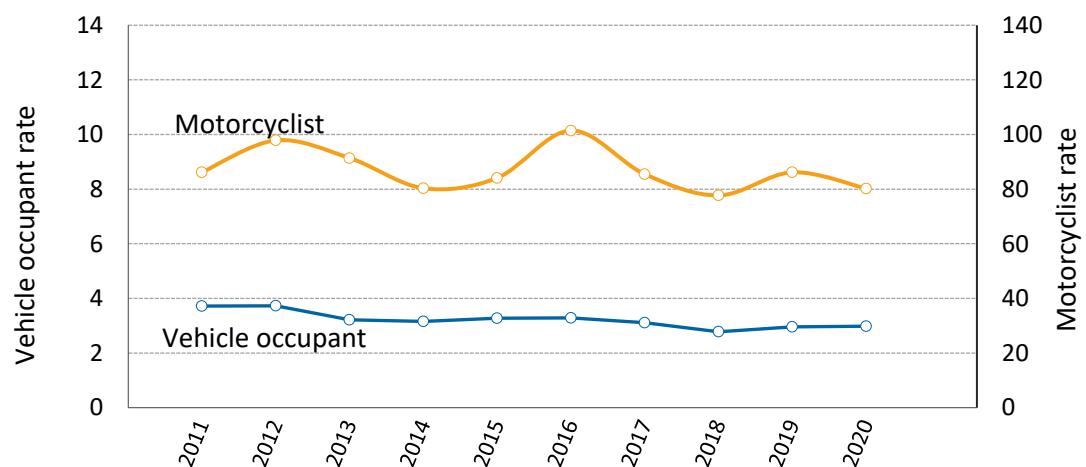
Sources Australian Road Deaths Database and BITRE 2020

**Table 3.7**  
**Motorcyclists<sup>a</sup> – fatality rate per billion VKT**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	74.7	97.3	73.1	129.8	109.3	55.1	67.8	75.2	86.2
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	70.9	63.9	85.2	122.1	102.1	109.2	109.4	0.0	80.2
% change 2019-2020	-0.2	-0.2	0.2	0.2	0.0	-0.1	0.0	0.0	-0.1
Ave. trend change p.a. (%)	-1.2	-1.9	-0.6	0.6	-2.0	6.3	0.7	-	-1.2

a Comprises motorcycle riders and pillion passengers.

Sources Australian Road Deaths Database and BITRE 2020

**Figure 3.6**  
**Annual fatality rates per billion VKT**

**Table 3.8** Annual hospitalised injury (HI) and fatality rates

	Per population		Per registered vehicle		Per VKT	
	HI	Deaths	HI	Deaths	HI	Deaths
2011	152.6	5.7	208.2	7.8	14.7	0.6
2012 <sup>a</sup>	150.0	5.7	203.6	7.8	14.5	0.6
2013	151.6	5.1	204.1	6.9	14.7	0.5
2014	151.4	4.9	201.6	6.5	14.6	0.5
2015	155.7	5.1	205.9	6.7	14.9	0.5
2016	161.0	5.3	211.8	7.0	15.3	0.5
2017 <sup>a</sup>	159.9	5.0	209.4	6.5	15.1	0.5
2018	158.5	4.5	206.5	5.9	15.0	0.4
2019	-	4.7	-	6.1	-	0.4
2020	-	4.3	-	5.6	-	0.4

Note See Note following Table 1.18.

Sources ABS 2021a, Australian Road Deaths Database, BITRE 2020 and DITRD&amp;C 2021

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## **Section 4**

### **NRSS statistical progress**

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

<b>Measure</b>	<b>Baseline (2008-2010)</b>	<b>2019</b>	<b>% Change</b>
<i>Number of deaths resulting from road crashes</i>	1,426	1,184	-17.0%
<i>Number of road crashes resulting in deaths</i>	1,297	1,098	-15.3%
<i>Number of deaths per 100,000 population</i>	6.6	4.6	-30.3%
<i>Number of deaths per 100 million vehicle kilometres travelled</i>	0.63	0.45	-28.6%
<i>Number of deaths per 10,000 registered vehicles</i>	0.91	0.6	-34.1%

**Table 4.2**      **National Road Safety Strategy (NRSS) statistical progress**  
**– Outcome Measures Australia**

<b>Measure</b>	<b>Baseline (2008-2010)</b>	<b>2019</b>	<b>% Change</b>
<b>Safe roads</b>			
<i>Number of deaths from head-on crashes</i>	271	206	-24.1%
<i>Number of deaths from single-vehicle crashes</i>	654	558	-14.7%
<i>Number of deaths from intersection crashes</i>	301	254	-15.6%
<i>Number of deaths from crashes on metropolitan roads</i>	499	406	-18.6%
<i>Number of deaths from crashes on regional roads</i>	777	655	-15.7%
<i>Number of deaths from crashes on remote roads</i>	138	123	-10.9%
<b>Safe speeds</b>			
<i>Mean free speeds at designated sites across the network</i>		N/A	
<i>Percentage of vehicles speeding by vehicle type and offence category</i>		NA	
<b>Safe vehicles</b>			
<i>Average age of the Australian vehicle fleet (years)</i>	10.0	10.2	2.0%
<i>Average age of passenger vehicles</i>	9.7	9.9	2.1%
<i>Percentage of new light vehicles sold with a 5-star ANCAP rating</i>	56% (2010)	92%	64.3%
<i>Percentage of new vehicles sold with Autonomous Emergency Braking (AEB)</i>	N/A	66%	N/A

**Table 4.2**      **National Road Safety Strategy (NRSS) statistical progress**  
**– Outcome Measures Australia (continued)**

<b>Measure</b>	<b>Baseline (2008-2010)</b>	<b>2019</b>	<b>% Change</b>
<b>Safe people – responsible road use</b>			
Number of young driver and motorcycle rider deaths (aged 17-25 years)	223	144	-35.3%
Number of deaths from crashes involving a young driver or motorcycle rider (aged 17-25 years)	470	308	-34.5%
Number of older driver and motorcycle rider deaths (aged 65+ years)	114	152	33.7%
Number of deaths from crashes involving an older driver or motorcycle rider (aged 65+ years)	209	253	21.1%
Number of motorcyclist deaths	232	212	-8.5%
Number of cyclist deaths	32	39	20.6%
Number of pedestrian deaths	186	159	-14.7%
Number of deaths from crashes involving a heavy vehicle	248	206	-16.8%
<b>Safe people – irresponsible road use</b>			
Number of drivers and motorcycle riders killed with a blood alcohol concentration (BAC) above the legal limit	149	98	-34.2%
Number of deaths from crashes involving a driver or motorcycle rider with a blood alcohol concentration (BAC) above the legal limit	214	133	-37.9%
Number of deaths from crashes involving an unlicensed driver or motorcycle rider	143	96	-32.7%
Number of vehicle occupants killed who were not wearing a restraint	215	139	-35.3%
Number of drivers and motorcycle riders killed who had an illegal drug in their system	53	75	41.5%
Number of deaths from crashes involving a driver or motorcycle rider who had an illegal drug in their system	84	106	26.2%

Source      <Roadsafety.gov.au>

**Table 4.3** National Road Safety Strategy (NRSS) deaths by jurisdiction

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
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
<b>Baseline<sup>a</sup></b>	<b>411</b>	<b>294</b>	<b>303</b>	<b>112</b>	<b>196</b>	<b>44</b>	<b>52</b>	<b>15</b>	<b>1,427</b>
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	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	31	31	5	1,221
2018	347	213	245	80	158	33	50	9	1,135
2019	355	270	219	114	163	32	36	6	1,195
2020	296	211	278	93	154	36	31	7	1,106
<i>12 months to May-2021</i>	294	202	293	95	166	31	34	10	1,125
<b>% change to baseline</b>	<b>-28.5%</b>	<b>-31.3%</b>	<b>-3.3%</b>	<b>-15.2%</b>	<b>-15.3%</b>	<b>-29.5%</b>	<b>-34.6%</b>	<b>-33.3%</b>	<b>-21.2%</b>

a The NRSS 2011-2020 baseline is the average of the three annual totals, 2008, 2009 and 2010.  
Source <Roadsafety.gov.au>

## **Section 5**

# **EXPOSURE**

**Table 5.1** Population (000s) by jurisdiction (June)

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	7,219	5,538	4,477	1,640	2,353	511	231	368	22,340
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	8,168	6,697	5,176	1,770	2,664	541	246	431	25,698
Ave. trend change p.a. (%)	1.4	2.2	1.6	0.8	1.2	0.6	0.6	1.8	1.6
Source	ABS 2021a								

**Table 5.2** Population (000s) by age group (June)

	0-16	17-25	26-39	40-64	65-74	≥ 75	All
2011	4,805	2,825	4,437	7,185	1,682	1,406	22,340
2012	4,873	2,855	4,510	7,281	1,777	1,437	22,733
2013	4,946	2,887	4,595	7,370	1,859	1,471	23,128
2014	5,008	2,912	4,667	7,446	1,932	1,510	23,476
2015	5,072	2,934	4,751	7,505	2,007	1,548	23,816
2016	5,148	2,955	4,855	7,561	2,083	1,589	24,191
2017	5,213	2,991	4,980	7,627	2,152	1,639	24,602
2018	5,265	3,027	5,094	7,684	2,224	1,689	24,983
2019	5,322	3,048	5,204	7,752	2,286	1,754	25,366
2020	5,370	2,993	5,286	7,855	2,365	1,830	25,698
Ave. trend change p.a. (%)	1.3	0.8	2.0	0.9	3.8	2.9	1.6
Source	ABS 2021a						

**Table 5.3** Population (000s) by Remoteness Area (June)

	Major Cities	Inner Regional	Outer Regional	Remote	Very Remote	Australia
2011	15,745	4,103	1,981	301	210	22,340
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	18,586	4,557	2,063	291	201	25,697
Ave. trend change p.a. (%)	1.9	1.1	0.4	-0.6	-0.8	1.6
Source	ABS 2021d					

**Table 5.4****Registrations (000s) of four-wheeled motor vehicles by jurisdiction**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	4,587	4,027	3,233	1,210	1,805	400	131	246	15,639
2012	4,670	4,110	3,315	1,222	1,862	411	135	254	15,980
2013	4,773	4,202	3,419	1,244	1,926	415	142	260	16,382
2014	4,879	4,296	3,510	1,270	2,011	420	145	266	16,798
2015	5,011	4,376	3,570	1,290	2,050	427	148	270	17,142
2016	5,130	4,483	3,646	1,307	2,072	434	151	275	17,497
2017	5,255	4,595	3,732	1,327	2,083	445	149	282	17,868
2018	5,356	4,717	3,824	1,350	2,098	456	156	289	18,246
2019	5,435	4,820	3,909	1,369	2,113	468	155	295	18,565
2020	5,505	4,906	3,977	1,385	2,147	481	155	298	18,852
Ave. trend change p.a. (%)	2.2	2.3	2.3	1.6	1.8	2.0	1.9	2.1	2.1

**Table 5.5****Registrations (000s) of motorcycles by jurisdiction**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	181	161	157	48	99	15	6	12	679
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
Ave. trend change p.a. (%)	4.0	2.5	3.3	1.6	2.2	3.3	-0.2	0.4	2.9

**Table 5.6****Registrations (000s) of all vehicles by jurisdiction**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	4,778	4,198	3,402	1,262	1,913	419	137	259	16,368
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

Ave. trend change p.a. (%) 2.2 2.3 2.4 1.6 1.8 2.0 1.8 2.1 2.2

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

**Table 5.7 VKT (millions) for four-wheeled motor vehicles by jurisdiction**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	69,682	59,268	48,573	15,980	25,450	5,209	2,028	3,638	229,828
2012	70,446	60,370	49,428	15,996	26,100	5,238	2,039	3,712	233,329
2013	71,425	61,188	50,335	16,184	26,519	5,237	2,072	3,777	236,737
2014	72,540	62,442	51,083	16,545	27,108	5,274	2,097	3,831	240,921
2015	74,141	63,821	52,176	16,829	27,677	5,335	2,123	3,901	246,001
2016	76,149	65,503	53,613	17,185	28,407	5,404	2,145	3,993	252,398
2017	77,963	67,153	54,731	17,450	28,705	5,456	2,184	4,082	257,725
2018	78,924	68,253	55,430	17,608	28,806	5,569	2,227	4,138	260,953
2019	78,896	68,953	55,495	17,419	28,833	5,598	2,225	4,144	261,563
2020	73,851	63,798	52,369	16,236	27,090	5,212	2,136	3,924	244,617
Ave. trend change p.a. (%)	1.3	1.5	1.3	0.8	1.1	0.5	1.0	1.3	1.3

**Table 5.8 VKT (millions) for motorcycles by jurisdiction**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	683.1	503.4	615.8	161.8	256.2	54.5	29.5	39.9	2,344.1
2012	665.9	489.8	598.7	155.6	249.0	53.1	28.2	38.6	2,278.9
2013	685.3	494.8	615.5	157.7	255.2	54.2	29.2	38.6	2,330.5
2014	697.5	503.7	629.3	159.4	264.1	54.6	29.8	38.9	2,377.4
2015	707.5	510.5	641.8	160.6	268.4	55.2	30.1	39.0	2,413.2
2016	720.6	517.0	658.6	162.7	270.2	56.0	29.8	39.2	2,454.1
2017	727.1	521.7	662.8	162.7	269.3	56.4	29.6	39.1	2,468.7
2018	723.1	520.1	658.3	163.3	268.1	56.9	29.3	38.9	2,457.9
2019	719.9	515.9	652.9	161.1	264.1	56.5	28.4	38.1	2,437.0
2020	705.6	500.9	633.8	155.6	254.6	54.9	27.4	37.0	2,369.8
Ave. trend change p.a. (%)	0.8	0.4	0.8	0.1	0.4	0.5	-0.4	-0.4	0.6

**Table 5.9 VKT (millions) for all vehicles by jurisdiction**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2011	70,365	59,772	49,189	16,142	25,706	5,264	2,057	3,677	232,172
2012	71,111	60,860	50,027	16,152	26,349	5,291	2,068	3,751	235,608
2013	72,110	61,683	50,950	16,342	26,774	5,291	2,102	3,816	239,067
2014	73,237	62,946	51,712	16,705	27,373	5,329	2,127	3,870	243,299
2015	74,848	64,332	52,817	16,989	27,945	5,390	2,153	3,940	248,414
2016	76,870	66,020	54,272	17,348	28,678	5,460	2,175	4,032	254,852
2017	78,691	67,675	55,393	17,612	28,975	5,513	2,214	4,121	260,193
2018	79,647	68,773	56,088	17,771	29,074	5,625	2,256	4,177	263,411
2019	79,616	69,469	56,148	17,580	29,097	5,654	2,253	4,182	264,000
2020	74,557	64,299	53,002	16,392	27,345	5,267	2,164	3,961	246,987
Ave. trend change p.a. (%)	1.3	1.4	1.3	0.8	1.1	0.5	0.9	1.3	1.3
Source	BITRE 2020								

# 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.

## References

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