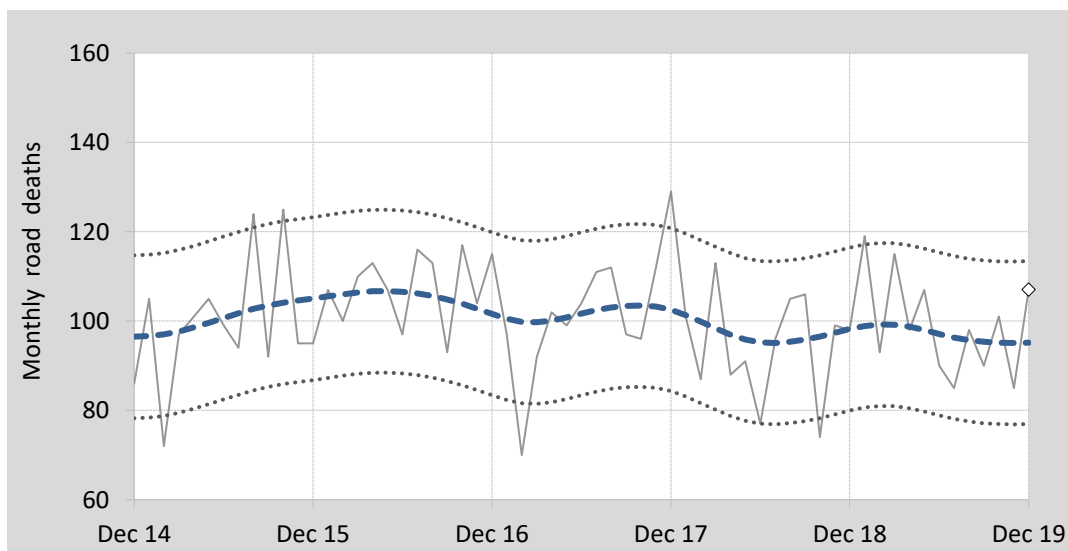




This month's key figures

- There was a total of 107 road deaths during the month of December 2019. The current figure is 2.3 per cent higher than the average for December over the previous five years.
- During the 12 months ended December 2019, there were 1,188 road deaths. This is an increase of 4.7 per cent from the 12-month period ending December 2018.
- Presently, the rate of annual deaths per 100,000 population stands at 4.7. This is a 3.1 per cent increase compared to the rate for the 12-month period ending December 2018.

Monthly road deaths—last five years, with trend and error bounds



Note: Shown is a trend and a 90 per cent prediction interval for the monthly observations.

Data Sources

Data are obtained from

- Transport for NSW
- Department of Transport, Victoria
- Department of Transport and Main Roads, Queensland
- Department of Planning, Transport and Infrastructure, SA
- Western Australia Police
- Department of State Growth, Tasmania
- Department of Infrastructure, Planning and Logistics, NT
- Territory and Municipal Services Directorate, ACT
- Australian Bureau of Statistics (3101.0)

Inquiries

For further information about data in this bulletin, contact:

Bureau of Infrastructure, Transport and Regional Economics
 Web : www.bitre.gov.au
 Email : roadsafety@infrastructure.gov.au

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

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I. Deaths by jurisdiction

Table I.1 Current month

Current month	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
December 2018	28	17	24	9	13	4	3	0	98
December 2019	27	20	16	13	14	4	12	1	107
Per cent change	-3.6	17.6	-33.3	44.4	7.7	0.0	300.0	-	9.2

Table I.2 Year to date

Year to date	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
January 2018 - December 2018	347	213	245	80	158	33	50	9	1,135
January 2019 - December 2019	352	268	217	114	163	32	36	6	1,188
Per cent change	1.4	25.8	-11.4	42.5	3.2	-3.0	-28.0	-33.3	4.7

Table I.3 Year ending December

12 months ended December	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
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	352	268	217	114	163	32	36	6	1,188
Latest per cent change	1.4	25.8	-11.4	42.5	3.2	-3.0	-28.0	-33.3	4.7
Average trend change per year (per cent)	-0.8	-1.8	-2.5	1.5	-1.5	-2.3	-5.0	-17.6	-1.6

2. Deaths by road user, age-group and gender

Table 2.1 By road user

12 months ended December	Driver	Passenger	Pedestrian	Motorcyclist ^b	Pedal ^b cyclist	Total ^c
2015	555	251	161	203	31	1,204
2016	622	208	182	249	29	1,292
2017	566	234	161	211	39	1,221
2018	522	204	177	191	35	1,135
2019	573	206	159	208	39	1,188
Latest per cent change	9.8	1.0	-10.2	8.9	11.4	4.7
Average trend change per year (per cent)	-1.1	-4.1	-0.5	-2.1	6.7	-1.6

Table 2.2 By age-group^a (years)

12 months ended December	0 to 16	17 to 25	26 to 39	40 to 64	65 to 74	≥ 75	Total ^c
2015	65	225	272	373	118	151	1,204
2016	60	265	290	411	103	163	1,292
2017	48	244	237	391	120	181	1,221
2018	52	225	257	353	114	130	1,135
2019	48	238	253	376	107	166	1,188
Latest per cent change	-7.7	5.8	-1.6	6.5	-6.1	27.7	4.7
Average trend change per year (per cent)	-7.2	-0.5	-2.6	-1.4	-0.9	-0.4	-1.6

2. Deaths by road user, age-group and gender (continued)

Table 2.3 By gender

12 months ended December	Males	Females	Total ^d
2015	866	338	1,204
2016	954	337	1,292
2017	897	324	1,221
2018	841	293	1,135
2019	910	278	1,188
<i>Latest per cent change</i>	8.2	-5.1	4.7
<i>Average trend change per year (per cent)</i>	-0.3	-5.2	-1.6

a Age groups were changed in April 2014.

b Includes pillion passengers.

c Includes deaths to persons with either age or road user type not recorded.

d Includes deaths of persons where gender is not recorded or unspecified.

3. Annual deaths per 100,000 population

Table 3.1 Year ended December

12 months ended December	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2015	4.60	4.18	5.09	6.00	6.26	6.60	20.03	3.79	5.06
2016	4.91	4.70	5.18	5.02	7.55	7.15	18.32	2.48	5.34
2017	4.94	4.10	5.01	5.80	6.18	5.93	12.52	1.21	4.96
2018	4.35	3.30	4.89	4.61	6.09	6.25	20.24	2.14	4.54
2019	4.35	4.06	4.26	6.51	6.22	5.99	14.64	1.41	4.68
<i>Latest per cent change</i>	0.1	23.3	-12.9	41.3	2.1	-4.1	-27.7	-34.3	3.1
<i>Average trend change per year (per cent)</i>	-2.3	-4.0	-4.0	0.8	-2.3	-3.2	-5.1	-19.2	-3.1

Table 3.2 Calendar year period

Calendar year	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2015	4.60	4.18	5.09	6.00	6.26	6.60	20.03	3.79	5.06
2016	4.91	4.70	5.18	5.02	7.55	7.15	18.32	2.48	5.34
2017	4.94	4.10	5.01	5.80	6.18	5.93	12.52	1.21	4.96
2018	4.35	3.30	4.89	4.61	6.09	6.25	20.24	2.14	4.54
2019	4.35	4.06	4.26	6.51	6.22	5.99	14.64	1.41	4.68
<i>Latest per cent change</i>	0.1	23.3	-12.9	41.3	2.1	-4.1	-27.7	-34.3	3.1

4. Monthly deaths by jurisdiction — last 24 months

— raw
 - - - smoothed
(Whittaker-Henderson)

Figure 4.1 NSW

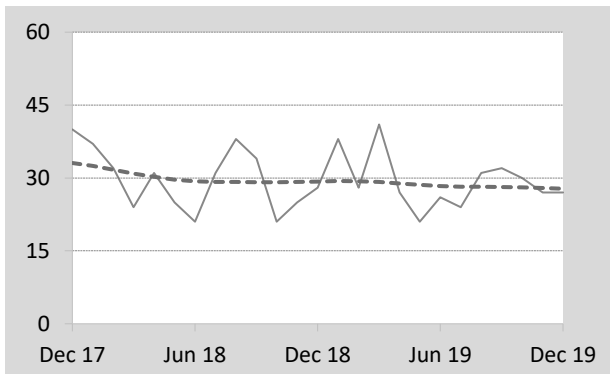


Figure 4.2 Vic

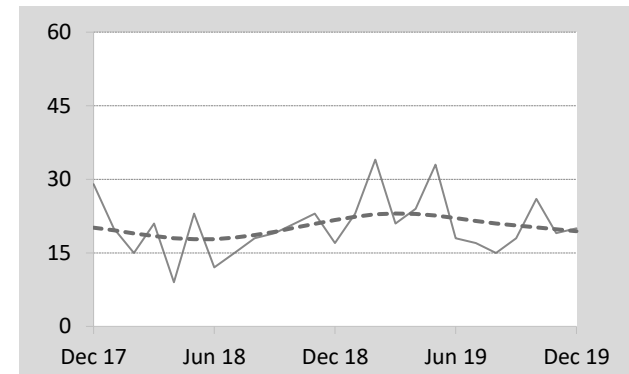


Figure 4.3 Qld

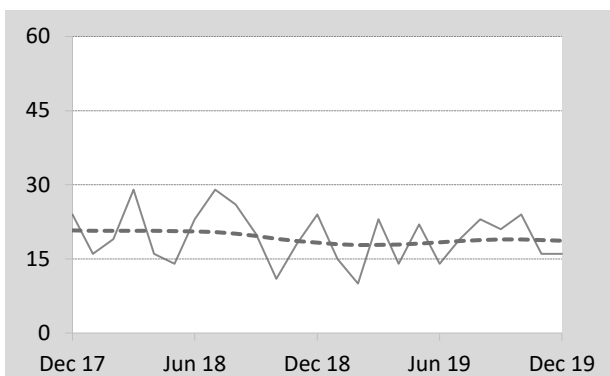


Figure 4.4 SA

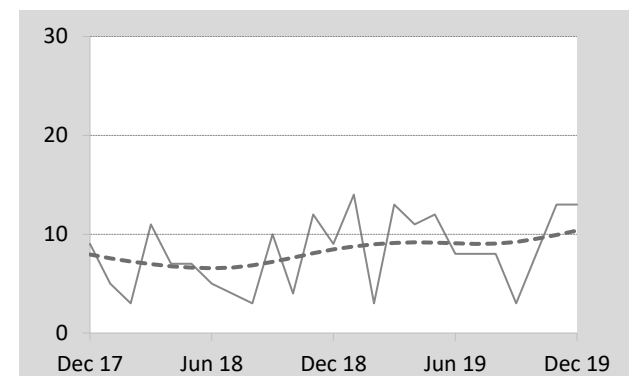


Figure 4.5 WA

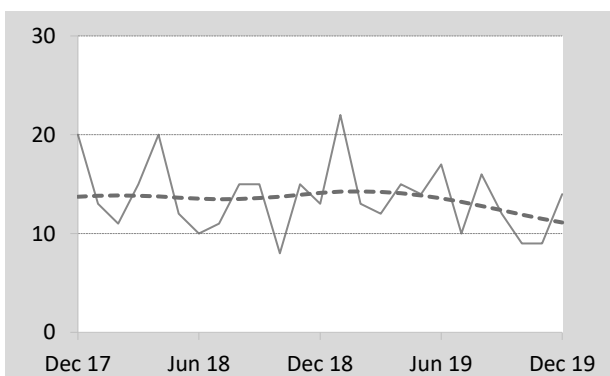


Figure 4.6 Tas

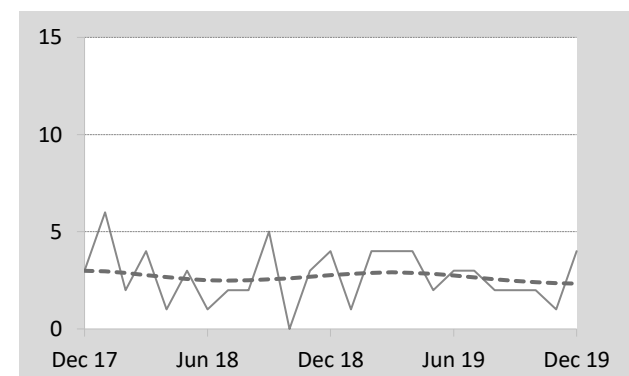


Figure 4.7 NT

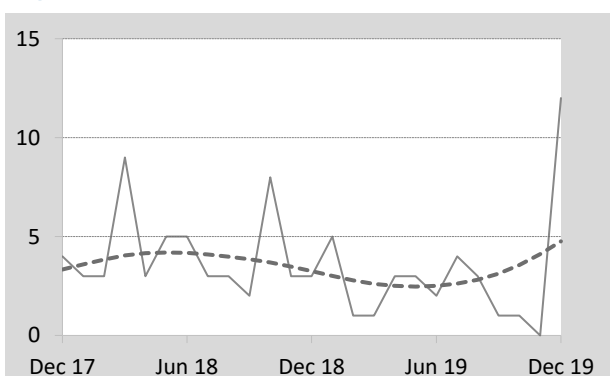
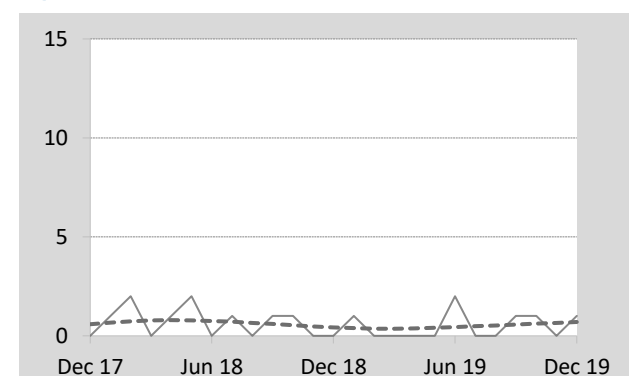


Figure 4.8 ACT



5. Fatal crashes: counts and characteristics

Table 5.1 By Crash type and Posted speed limit

12 months ended December	Crash type ^a			Posted speed limit						Total ^b
	Single	Multiple	Pedestrian	≤ 40	50	60	70 to 90	100	≥ 110	
2015	490	450	160	20	113	222	249	346	141	1,100
2016	528	488	182	17	132	215	290	370	166	1,198
2017	493	473	159	35	152	201	241	348	139	1,125
2018	474	406	175	17	131	192	228	334	143	1,055
2019	525	419	158	22	125	175	231	335	171	1,102
Latest per cent change	10.8	3.2	-9.7	29.4	-4.6	-8.9	1.3	0.3	19.6	4.5
Average trend change per year (per cent)	0.3	-3.2	-0.6	1.9	2.0	-5.7	-3.8	-1.7	2.4	-1.2

Table 5.2 By Day of week and Time of day

12 months ended December	Day of week ^c		Time of day ^d	
	Weekday	Weekend	Day	Night
2015	676	424	677	423
2016	720	478	715	483
2017	710	415	716	409
2018	632	423	648	407
2019	697	405	685	417
Latest per cent change	10.3	-4.3	5.7	2.5
Average trend change per year (per cent)	-0.7	-2.1	-0.7	-2.0

a 'Single' and 'Multiple' refer to the number of vehicles involved in a fatal crash where there is no pedestrian killed.

b Includes crashes where speed limit is unknown or not specified.

c 'Weekday' refers to 6am Monday through to 5:59pm Friday.

d 'Day' refers to 6am through to 5:59 pm.

Appendix

Definition

The road safety agencies in each jurisdiction use detailed criteria to define road crashes and road deaths. Briefly, a death is classified as resulting from a road crash if the crash occurred on a public road, is unintentional and the death occurred within 30 days from injuries sustained in the crash.

Population rates

Rates per population are based on the deaths to the current 12-month period, and the population at the midpoint of the period. The population at midpoints is interpolated if necessary.

New ongoing fields in September 2018 database

The *Australian Road Deaths Database* now includes geographic location information for fatal crashes. Back series of data for all jurisdictions is in development.

Average trend change (% per year)

Designed to provide a **one-number summary** of growth rates over recent time periods. Calculated by fitting an exponential curve through the data points, and quoting the constant (annual) change of this curve.

Smooth trend lines

These trend lines are designed to track medium-term trends and turning points in the raw data. Whittaker-Henderson smoothers have been used with value of 80 for the smoothing parameter. The application R (package *pracma*) can be used for such trend lines. Error bounds are 90% (approximately) around the monthly data.

Other sources for the tables in this bulletin

The underlying database used to produce this bulletin — *the Australian Road Deaths Database* is available for data extraction at <http://www.bitre.gov.au/statistics/safety/fatal_road_crash_database.aspx>.

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