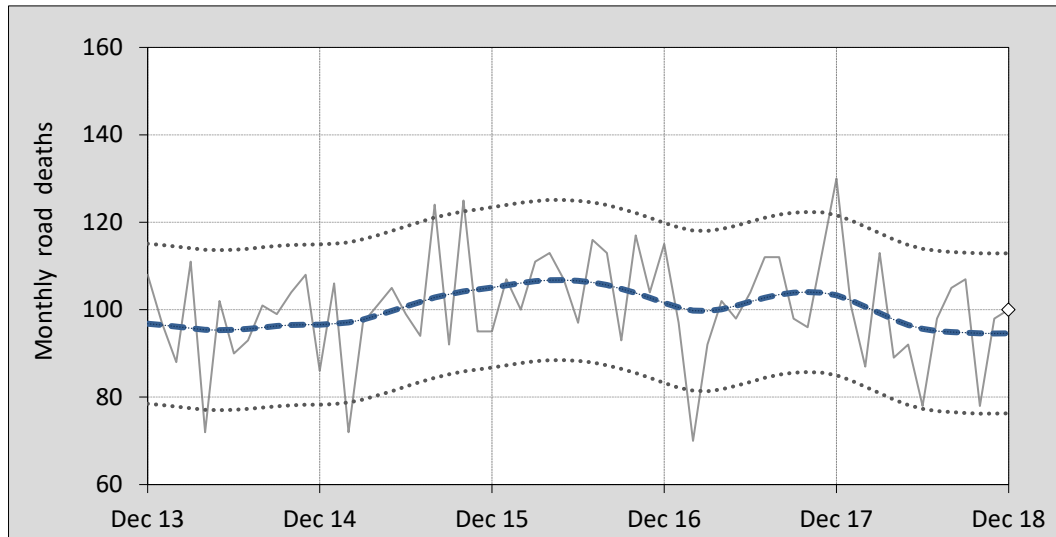




This month's key figures

- There was a total of 100 road deaths during the month of December 2018. The current figure is 6.4 per cent lower than the average for December over the previous five years.
- During the 12 months ended December 2018, there were 1,146 road deaths. This is a decrease of 6.4 per cent from the 12-month period ending December 2017.
- Presently, the rate of annual deaths per 100,000 population stands at 4.6. This is 7.8 per cent decrease compared to the rate for the 12-month period ending December 2017.

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
- Vicroads
- Department of Transport and Main Roads, Queensland
- Department of Planning, Transport and Infrastructure, S.A.
- 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 2017	40	29	24	9	21	3	4	0	130
December 2018	29	18	23	10	13	4	3	0	100
Per cent change	-27.5	-37.9	-4.2	11.1	-38.1	33.3	-25.0	-	-23.1

Table I.2 Year to date

Year to date	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
January 2017 - December 2017	389	259	247	100	159	34	31	5	1,224
January 2018 - December 2018	354	214	247	81	158	33	50	9	1,146
Per cent change	-9.0	-17.4	0.0	-19.0	-0.6	-2.9	61.3	80.0	-6.4

Table I.3 Year ending December

12 months ended December	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2014	307	248	223	108	183	33	39	10	1,151
2015	350	252	243	102	160	34	49	15	1,205
2016	380	290	251	86	193	37	45	11	1,293
2017	389	259	247	100	159	34	31	5	1,224
2018	354	214	247	81	158	33	50	9	1,146
Latest per cent change	-9.0	-17.4	0.0	-19.0	-0.6	-2.9	61.3	80.0	-6.4
Average trend change per year (per cent)	4.0	-2.6	2.2	-5.8	-3.0	0.0	0.4	-12.3	0.1

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
2014	533	228	151	191	45	1,151
2015	555	251	162	203	31	1,205
2016	623	208	182	249	29	1,293
2017	569	234	161	211	39	1,224
2018	535	205	176	190	35	1,146
Latest per cent change	-6.0	-12.4	9.3	-10.0	-10.3	-6.4
Average trend change per year (per cent)	0.3	-2.8	3.0	0.3	-2.7	0.1

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
2014	65	235	251	359	109	130	1,151
2015	65	225	272	373	118	152	1,205
2016	60	265	290	412	103	163	1,293
2017	48	244	238	392	121	181	1,224
2018	51	226	257	362	114	130	1,146
Latest per cent change	6.3	-7.4	8.0	-7.7	-5.8	-28.2	-6.4
Average trend change per year (per cent)	-7.6	0.0	-0.9	0.7	1.2	1.8	0.1

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

Table 2.3 By gender

12 months ended December	Males	Females	Total ^d
2014	819	331	1,151
2015	866	339	1,205
2016	955	337	1,293
2017	899	325	1,224
2018	854	291	1,146
<i>Latest per cent change</i>	-5.0	-10.5	-6.4
<i>Average trend change per year (per cent)</i>	1.2	-3.0	0.1

a Age groups were changed in March 2014.

b Includes pillion passengers.

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

d Includes deaths to persons with gender not recorded.

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
2014	4.09	4.21	4.72	6.40	7.27	6.42	16.06	2.57	4.90
2015	4.60	4.18	5.09	6.00	6.30	6.60	20.03	3.79	5.06
2016	4.91	4.70	5.18	5.02	7.55	7.15	18.32	2.73	5.34
2017	4.94	4.10	5.01	5.80	6.18	6.51	12.52	1.21	4.98
2018	4.43	3.31	4.93	4.66	6.09	6.25	20.22	2.14	4.59
<i>Latest per cent change</i>	-10.4	-19.1	-1.7	-19.6	-1.5	-4.0	61.4	76.2	-7.8
<i>Average trend change per year (per cent)</i>	2.4	-4.9	0.7	-6.4	-3.7	-0.7	-0.1	-14.0	-1.5

Table 3.2 Calendar year period

Calendar year	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2014	4.09	4.21	4.72	6.40	7.27	6.42	16.06	2.57	4.90
2015	4.60	4.18	5.09	6.00	6.30	6.60	20.03	3.79	5.06
2016	4.91	4.70	5.18	5.02	7.55	7.15	18.32	2.73	5.34
2017	4.94	4.10	5.01	5.80	6.18	6.51	12.52	1.21	4.98
2018	4.43	3.31	4.93	4.66	6.09	6.25	20.22	2.14	4.59
<i>Latest per cent change</i>	-10.4	-19.1	-1.7	-19.6	-1.5	-4.0	61.4	76.2	-7.8

4. Monthly deaths by jurisdiction — last 24 months

— raw
 - - - smoothed
 (Whittaker-Henderson)

Figure 4.1 NSW

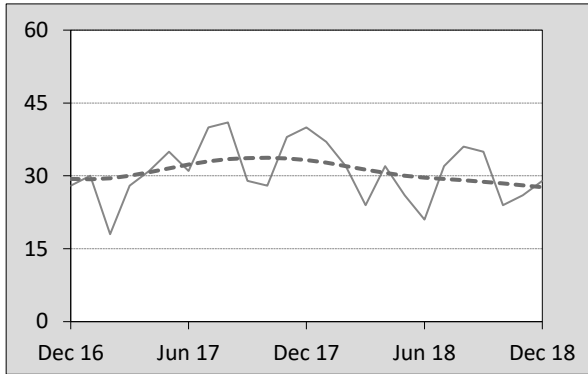


Figure 4.2 Vic

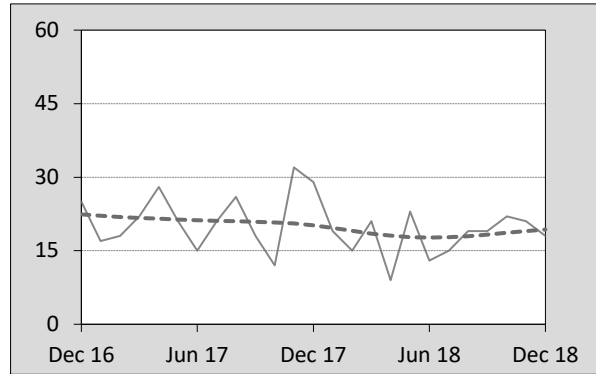


Figure 4.3 Qld

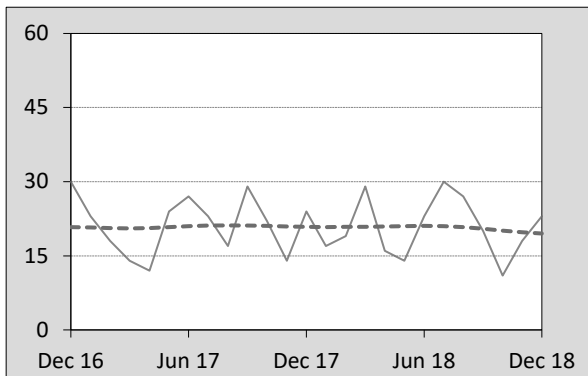


Figure 4.4 SA

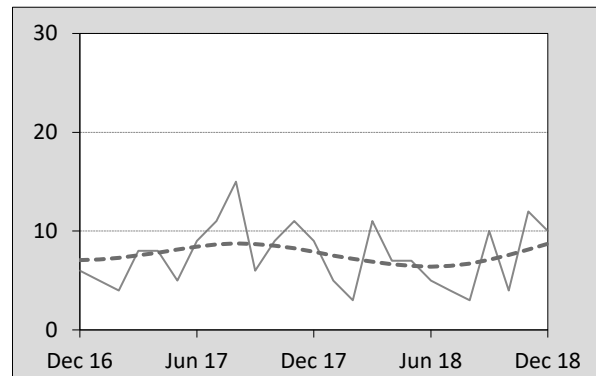


Figure 4.5 WA

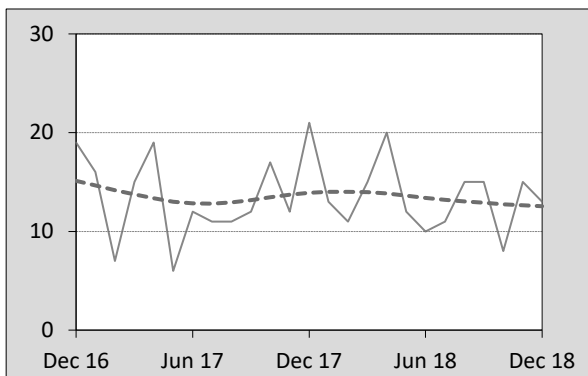


Figure 4.6 Tas

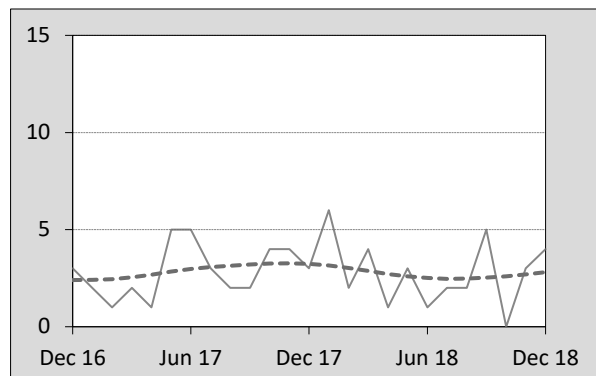


Figure 4.7 NT

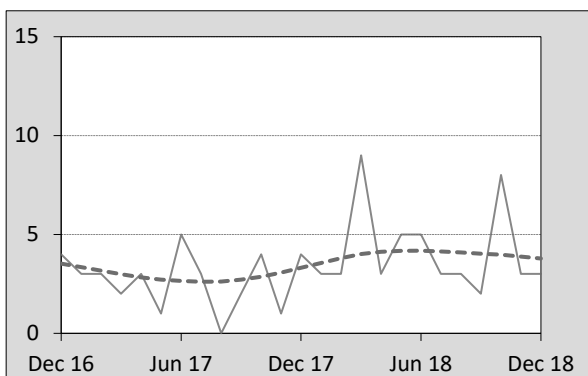
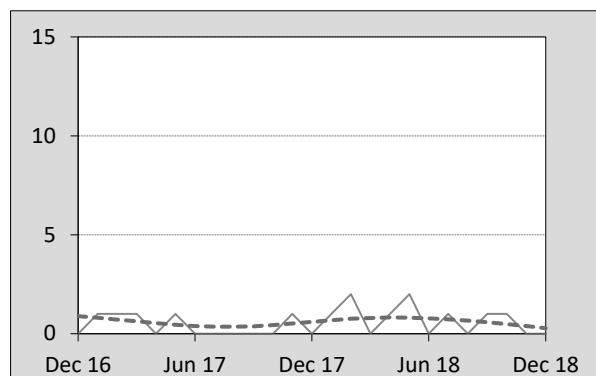


Figure 4.8 ACT



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	
2014	464	438	149	15	111	192	229	356	134	1,051
2015	490	450	161	18	113	222	249	346	141	1,101
2016	529	488	182	17	133	215	290	370	166	1,199
2017	495	474	159	31	152	202	244	348	138	1,128
2018	481	411	174	17	128	186	223	321	144	1,066
Latest per cent change	-2.8	-13.3	9.4	-45.2	-15.8	-7.9	-8.6	-7.8	4.3	-5.5
Average trend change per year (per cent)	0.8	-0.8	3.0	8.3	6.0	-1.6	-0.7	-2.0	1.2	0.5

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
2014	657	394	664	387
2015	677	424	678	423
2016	720	479	715	484
2017	712	416	719	409
2018	640	426	653	413
Latest per cent change	-10.1	2.4	-9.2	1.0
Average trend change per year (per cent)	0.0	1.4	0.3	1.0

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 where the posted speed limit is 30km/hr or less.

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.