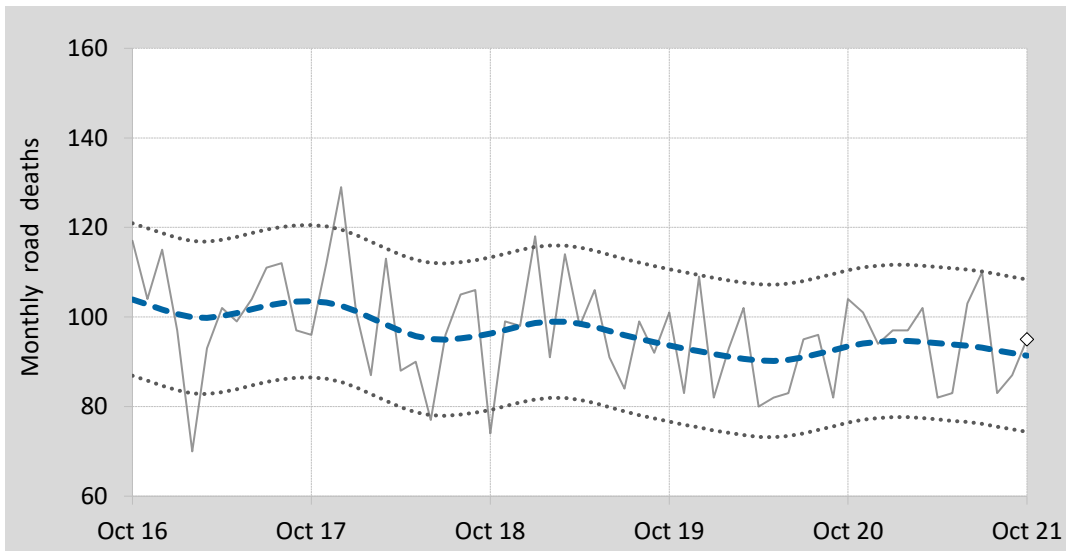




This month's key figures

- There was a total of 95 road deaths during the month of October 2021. The current figure is 3.5 per cent lower than the average for October over the previous five years.
- During the 12 months ended October 2021, there were 1,134 road deaths. This is an increase of 3.9 per cent from the 12-month period ending October 2020.
- Presently, the rate of annual deaths per 100,000 population stands at 4.4. This is a 3.9 per cent increase compared to the rate for the 12-month period ending October 2020.

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 and Transport Research Economics (BITRE)
 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
October 2020	17	22	30	7	18	6	3	1	104
October 2021	23	15	32	11	10	1	3	0	95
Per cent change	35.3	-31.8	6.7	57.1	-44.4	-83.3	0.0	-100.0	-8.7

Table I.2 Year to date

Year to date	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
January 2020 - October 2020	238	180	223	71	125	33	23	6	899
January 2021 - October 2021	224	189	239	84	135	30	29	9	939
Per cent change	-5.9	5.0	7.2	18.3	8.0	-9.1	26.1	50.0	4.4

Table I.3 Year ending October

12 months ended October	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2017	364	248	259	96	163	30	35	5	1,200
2018	372	234	241	79	162	31	49	10	1,178
2019	350	267	230	109	168	32	30	5	1,191
2020	294	219	254	97	148	37	35	7	1,091
2021	270	220	293	106	164	34	37	10	1,134
Latest per cent change	-8.2	0.5	15.4	9.3	10.8	-8.1	5.7	42.9	3.9
Average trend change per year (per cent)	-8.0	-3.0	3.0	4.1	-0.8	4.4	-2.2	10.8	-1.9

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

Table 2.1 By road user

12 months ended October	Driver	Passenger	Pedestrian	Motorcyclist ^b	Pedal ^a cyclist	Total ^b
2017	550	231	161	214	36	1,200
2018	551	216	174	193	36	1,178
2019	555	207	173	217	36	1,191
2020	540	184	136	183	45	1,091
2021	542	180	137	229	37	1,134
Latest per cent change	0.4	-2.2	0.7	25.1	-17.8	3.9
Average trend change per year (per cent)	-0.5	-6.4	-5.5	0.8	2.8	-1.9

Table 2.2 By age-group (years)

12 months ended October	0 to 16	17 to 25	26 to 39	40 to 64	65 to 74	≥ 75	Total ^b
2017	59	247	253	355	112	174	1,200
2018	48	227	258	388	116	139	1,178
2019	48	240	246	378	109	168	1,191
2020	53	209	292	324	81	128	1,091
2021	66	211	252	362	103	138	1,134
Latest per cent change	24.5	1.0	-13.7	11.7	27.2	7.8	3.9
Average trend change per year (per cent)	3.3	-3.9	1.2	-1.4	-5.1	-5.3	-1.9

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

Table 2.3 By gender

12 months ended October	Males	Females	Total ^c
2017	877	322	1,200
2018	874	303	1,178
2019	907	284	1,191
2020	797	290	1,091
2021	846	285	1,134
<i>Latest per cent change</i>	6.1	-1.7	3.9
<i>Average trend change per year (per cent)</i>	-1.6	-2.8	-1.9

a Includes pillion passengers.

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

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

3. Annual deaths per 100,000 population

Table 3.1 Year ended October

12 months ended October	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2017	4.63	3.93	5.27	5.57	6.33	5.75	14.20	1.21	4.89
2018	4.67	3.63	4.82	4.55	6.25	5.88	19.87	2.38	4.72
2019	4.33	4.05	4.52	6.22	6.41	5.99	12.21	1.17	4.70
2020	3.60	3.27	4.91	5.47	5.55	6.85	14.24	1.62	4.24
2021	3.30	3.31	5.62	5.98	6.12	6.27	14.97	2.32	4.41
<i>Latest per cent change</i>	-8.2	1.3	14.5	9.3	10.3	-8.4	5.2	42.5	3.9
<i>Average trend change per year (per cent)</i>	-9.0	-4.4	1.5	3.3	-1.8	3.3	-2.3	9.5	-3.1

Table 3.2 Calendar year period

Calendar year	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
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	6.13	12.52	1.21	4.97
2018	4.35	3.30	4.89	4.61	6.09	6.06	20.24	2.14	4.54
2019	4.36	4.03	4.30	6.50	6.21	5.42	14.63	1.41	4.68
2020	3.48	3.15	5.35	5.25	5.78	6.84	12.59	1.62	4.26
<i>Latest per cent change</i>	-20.3	-21.9	24.5	-19.2	-7.0	26.1	-13.9	15.3	-8.9

4. Monthly deaths by jurisdiction — last 24 months

— raw
 - - - smoothed
(Whittaker-Henderson)

Figure 4.1 NSW

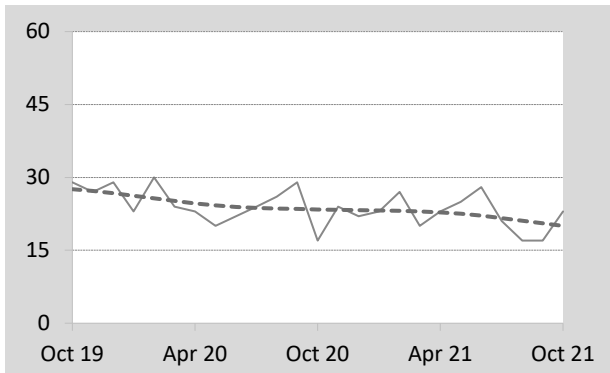


Figure 4.2 Vic

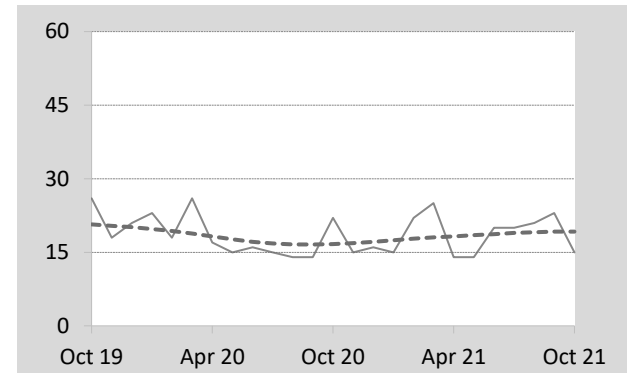


Figure 4.3 Qld

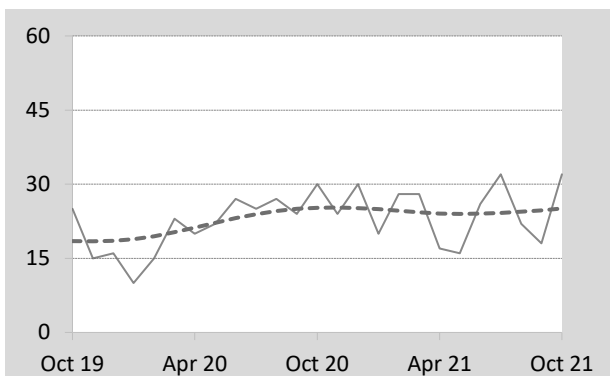


Figure 4.4 SA

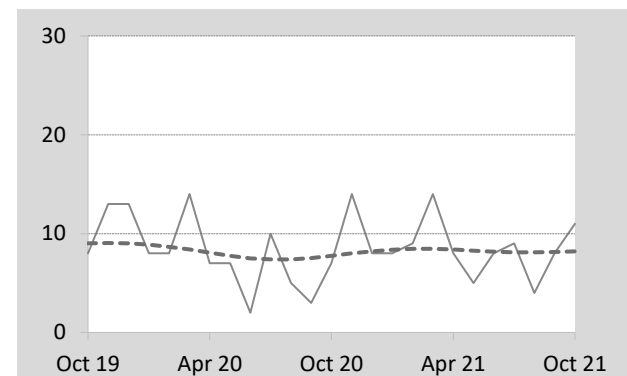


Figure 4.5 WA

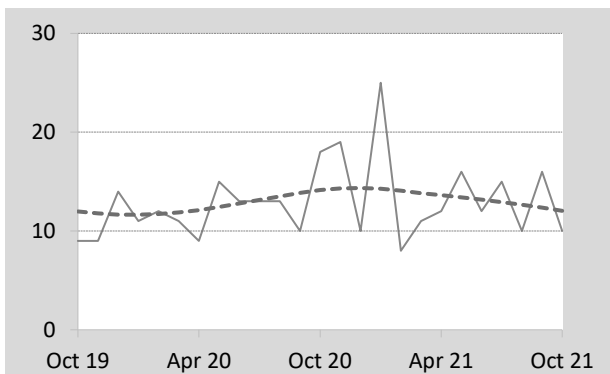


Figure 4.6 Tas

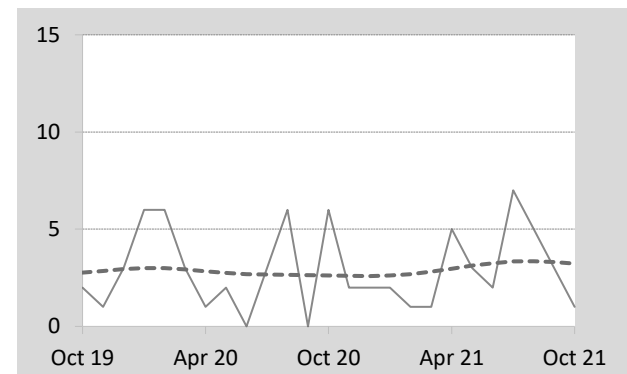


Figure 4.7 NT

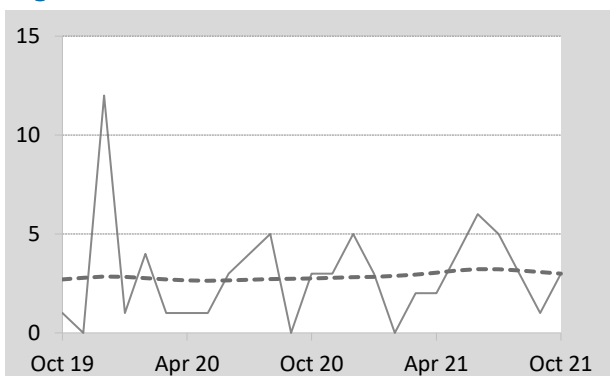
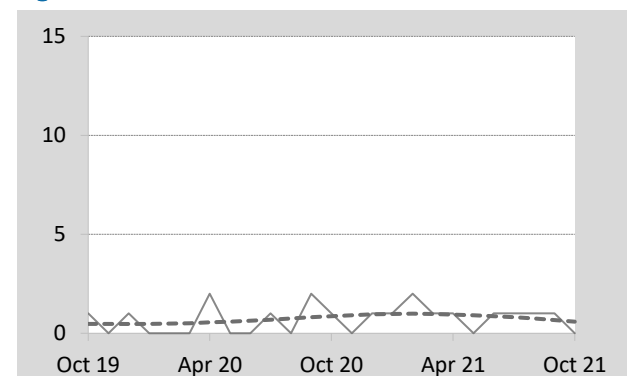


Figure 4.8 ACT



5. Fatal crashes: counts and characteristics

Table 5.1 By Crash type and Posted speed limit

12 months ended October	Crash type ^a		Posted speed limit (km/h)						Total ^b
	Single	Multiple	≤ 40	50	60	70 to 90	100	≥ 110	
2017	617	495	32	140	211	242	337	145	1,112
2018	638	452	19	140	189	241	349	141	1,090
2019	677	428	20	141	190	235	342	168	1,105
2020	578	414	20	115	164	242	320	127	992
2021	617	435	13	123	179	220	337	139	1,052
Latest per cent change	6.7	5.1	-35.0	7.0	9.1	-9.1	5.3	9.4	6.0
Average trend change per year (per cent)	-1.0	-3.4	-16.1	-4.5	-4.6	-1.8	-0.9	-1.9	-2.0

Table 5.2 By Day of week and Time of day

12 months ended October	Day of week ^c		Time of day ^d	
	Weekday	Weekend	Day	Night
2017	701	411	708	404
2018	660	430	674	416
2019	683	422	676	429
2020	609	383	600	392
2021	616	436	645	407
Latest per cent change	1.1	13.8	7.5	3.8
Average trend change per year (per cent)	-3.3	0.0	-3.0	-0.4

a 'Single' and 'Multiple' refer to the number of vehicles involved in a fatal crash.

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 October 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.