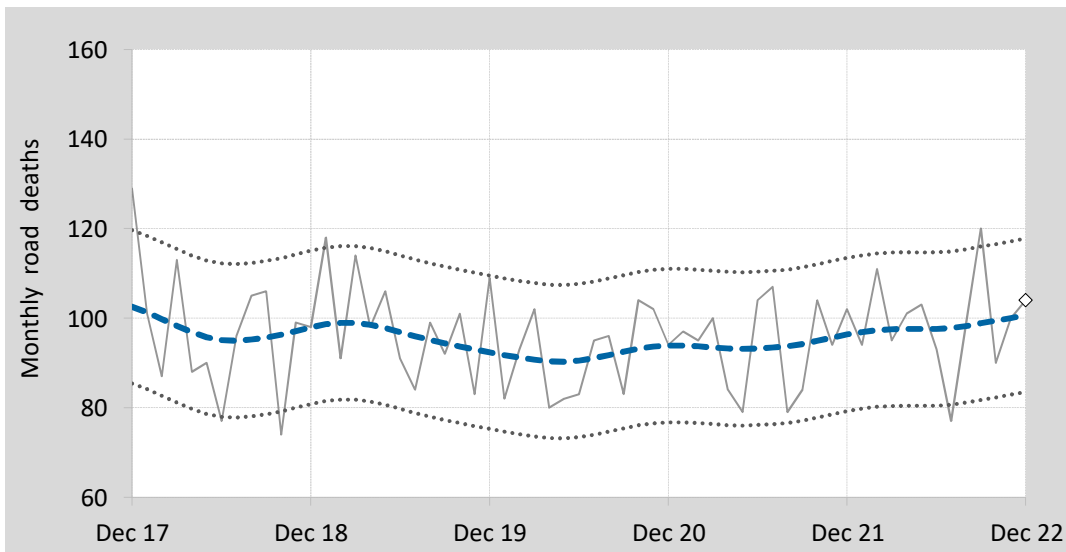




This month's key figures

- There was a total of 104 road deaths during the month of December 2022. The current figure is 2.3 per cent lower than the average for December over the previous five years.
- During the 12 months ended December 2022, there were 1,187 road deaths. This is an increase of 5.1 per cent from the 12-month period ending December 2021.
- Presently, the rate of annual deaths per 100,000 population stands at 4.6. This is a 4.0 per cent increase compared to the rate for the 12-month period ending December 2021.

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 for Infrastructure and Transport, SA
- Western Australia Police
- Department of State Growth, Tasmania
- Department of Infrastructure, Planning and Logistics, NT
- Transport Canberra and City 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
December 2021	32	24	14	7	14	4	5	2	102
December 2022	30	15	26	8	24	0	1	0	104
Per cent change	-6.3	-37.5	85.7	14.3	71.4	-100.0	-80.0	-100.0	2.0

Table I.2 Year to date

Year to date	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
January 2021 - December 2021	275	231	277	99	166	35	35	11	1,129
January 2022 - December 2022	288	240	299	71	174	50	47	18	1,187
Per cent change	4.7	3.9	7.9	-28.3	4.8	42.9	34.3	63.6	5.1

Table I.3 Year ending December

12 months ended December	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
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	38	31	7	1,096
2021	275	231	277	99	166	35	35	11	1,129
2022	288	240	299	71	174	50	47	18	1,187
Latest per cent change	4.7	3.9	7.9	-28.3	4.8	42.9	34.3	63.6	5.1
Average trend change per year (per cent)	-6.0	1.0	6.5	-3.7	2.1	11.4	-1.5	22.0	0.4

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

Table 2.1 By road user

12 months ended December	Driver	Passenger	Pedestrian	Motorcyclist ^a	Pedal cyclist ^a	Total ^b
2018	520	204	177	191	35	1,134
2019	570	205	159	210	39	1,186
2020	534	191	138	187	41	1,096
2021	530	182	133	237	41	1,129
2022	553	182	162	242	35	1,187
Latest per cent change	4.3	0.0	21.8	2.1	-14.6	5.1
Average trend change per year (per cent)	0.5	-3.4	-3.5	6.1	0.5	0.4

Table 2.2 By age-group (years)

12 months ended December	0 to 7	8 to 16	17 to 25	26 to 39	40 to 64	65 to 74	≥ 75	Total ^b
2018	14	38	225	257	353	114	129	1,134
2019	19	28	238	256	372	105	168	1,186
2020	17	38	207	291	330	76	133	1,096
2021	22	43	212	243	351	113	140	1,129
2022	15	48	229	269	375	116	133	1,187
Latest per cent change	-31.8	11.6	8.0	10.7	6.8	2.7	-5.0	5.1
Average trend change per year (per cent)	2.9	9.4	-0.8	0.4	0.6	1.1	-1.2	0.4

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

Table 2.3 By gender

12 months ended December	Males	Females	Total ^c
2018	841	292	1,134
2019	905	281	1,186
2020	792	300	1,096
2021	852	275	1,129
2022	880	306	1,187
<i>Latest per cent change</i>	3.3	11.3	5.1
<i>Average trend change per year (per cent)</i>	0.3	0.7	0.4

a Includes pillion passengers.

b Includes deaths of 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 December

12 months ended December	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2018	4.4	3.3	4.9	4.6	6.0	5.9	20.1	2.1	4.5
2019	4.4	4.1	4.3	6.4	6.1	5.3	14.5	1.4	4.7
2020	3.5	3.2	5.4	5.2	5.7	6.7	12.5	1.6	4.3
2021	3.4	3.5	5.3	5.5	6.0	6.2	14.0	2.4	4.4
2022	3.5	3.6	5.6	3.9	6.2	8.7	18.8	3.9	4.6
<i>Latest per cent change</i>	4.0	2.9	5.8	-29.0	3.5	42.0	33.5	62.5	4.0
<i>Average trend change per year (per cent)</i>	-6.6	0.4	5.0	-4.7	0.6	9.9	-1.7	20.3	-0.5

Table 3.2 Calendar year period

Calendar year	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2018	4.4	3.3	4.9	4.6	6.0	5.9	20.1	2.1	4.5
2019	4.4	4.1	4.3	6.4	6.1	5.3	14.5	1.4	4.7
2020	3.5	3.2	5.4	5.2	5.7	6.7	12.5	1.6	4.3
2021	3.4	3.5	5.3	5.5	6.0	6.2	14.0	2.4	4.4
2022	3.5	3.6	5.6	3.9	6.2	8.7	18.8	3.9	4.6
<i>Latest per cent change</i>	4.0	2.9	5.8	-29.0	3.5	42.0	33.5	62.5	4.0

4. Monthly deaths by jurisdiction — last 24 months

— raw
 - - - smoothed
 (Whittaker-Henderson)

Figure 4.1 NSW

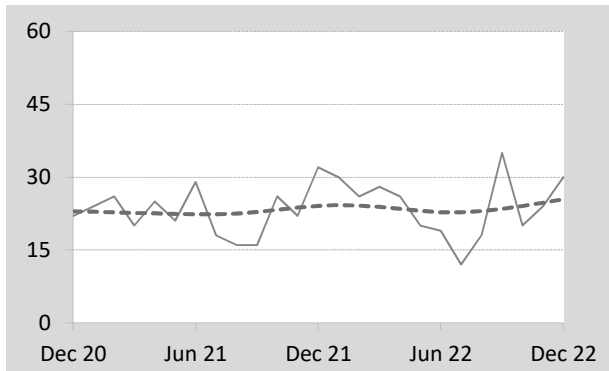


Figure 4.2 Vic

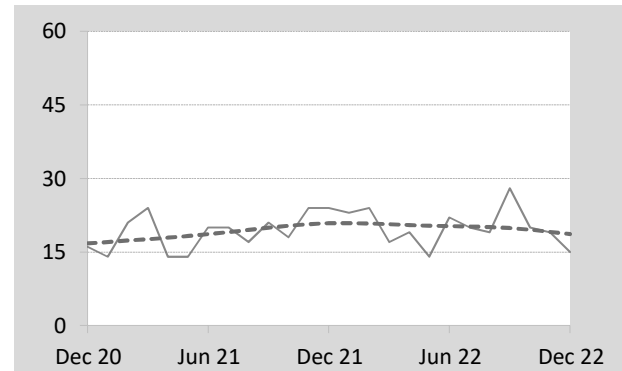


Figure 4.3 Qld

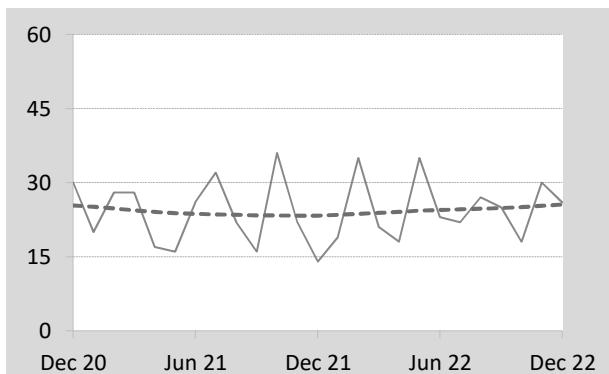


Figure 4.4 SA

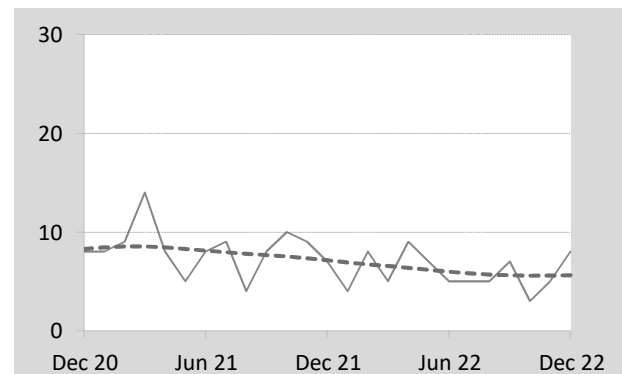


Figure 4.5 WA

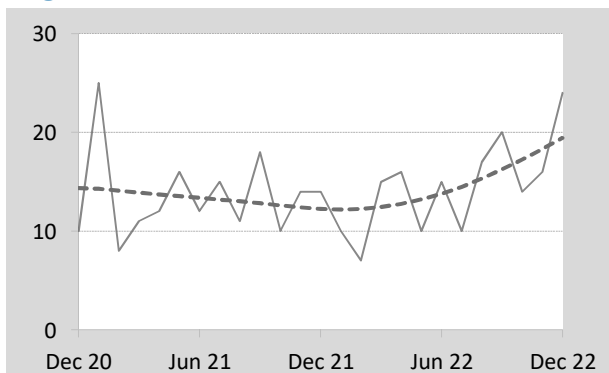


Figure 4.6 Tas

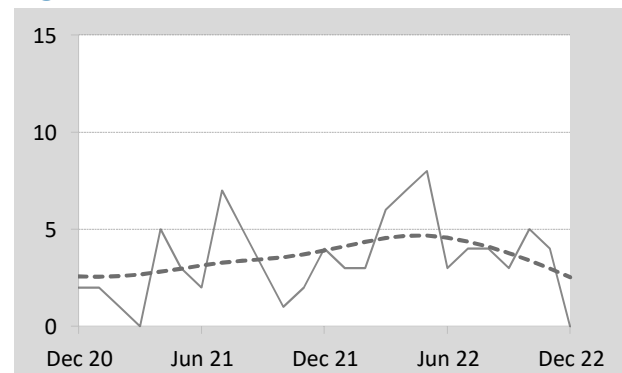


Figure 4.7 NT

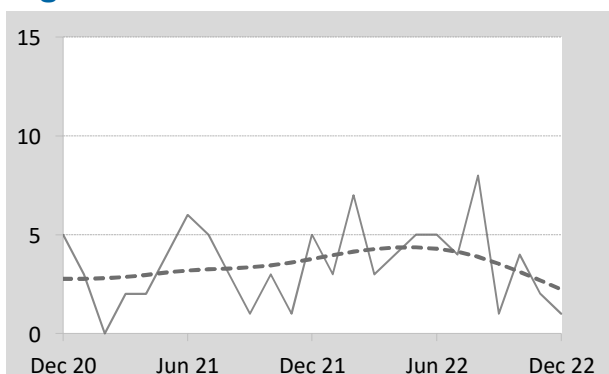
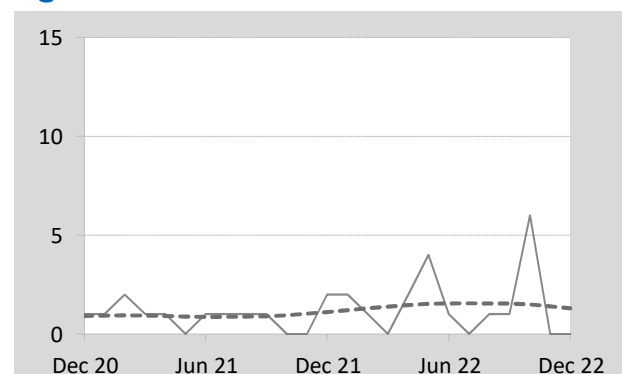


Figure 4.8 ACT



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 (km/h)						Total ^b
	Single	Multiple	≤ 40	50	60 to 70	80 to 90	100	≥ 110	
2018	633	421	18	131	252	169	333	143	1,054
2019	668	432	21	129	233	193	343	172	1,100
2020	570	427	17	125	223	178	330	118	997
2021	610	439	18	131	251	159	334	142	1,049
2022	684	428	22	108	289	185	326	134	1,112
Latest per cent change	12.1	-2.5	22.2	-17.6	15.1	16.4	-2.4	-5.6	6.0
Average trend change per year (per cent)	0.6	0.5	2.5	-3.6	3.5	-0.1	-0.7	-3.2	0.6

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
2018	631	423	647	407
2019	668	432	535	565
2020	592	405	597	400
2021	651	398	653	396
2022	653	459	633	478
Latest per cent change	0.3	15.3	-3.1	20.7
Average trend change per year (per cent)	0.4	0.8	1.6	-0.3

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 December 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.