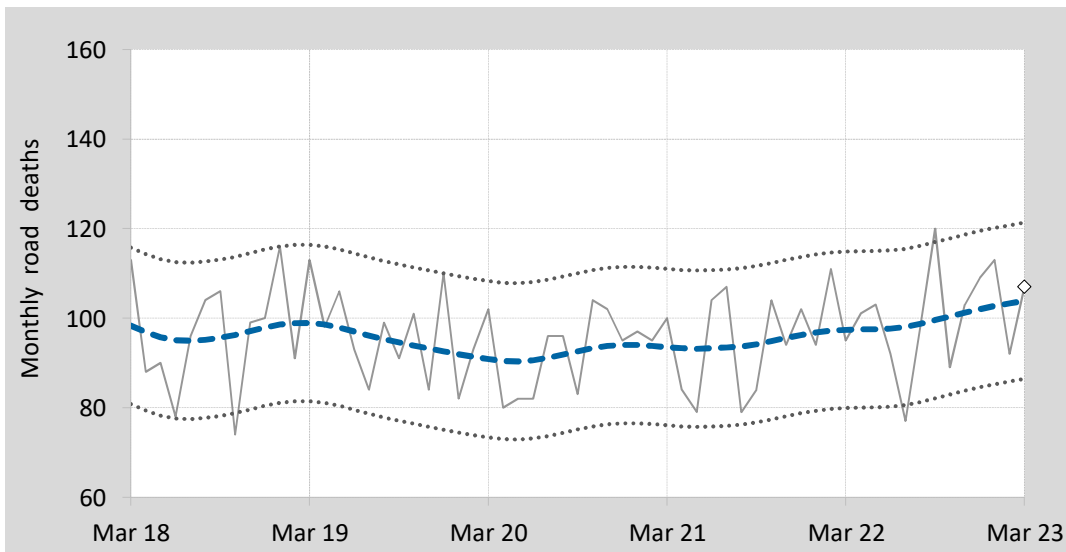




### This month's key figures

- There was a total of 107 road deaths during the month of March 2023. The current figure is 2.3 per cent higher than the average for March over the previous five years.
- During the 12 months ended March 2023, there were 1,204 road deaths. This is an increase of 5.9 per cent from the 12-month period ending March 2022.
- Presently, the rate of annual deaths per 100,000 population stands at 4.6. This is a 4.2 per cent increase compared to the rate for the 12-month period ending March 2022.

### 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](http://www.bitre.gov.au)  
 Email : [roadsafety@infrastructure.gov.au](mailto: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
March 2022	28	17	21	5	15	6	3	0	95
March 2023	34	21	19	14	15	2	2	0	107
Per cent change	21.4	23.5	-9.5	180.0	0.0	-66.7	-33.3	0.0	12.6

**Table I.2** Year to date

Year to date	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
January 2022 - March 2022	84	64	75	17	32	12	13	3	300
January 2023 - March 2023	81	82	59	39	37	9	3	2	312
Per cent change	-3.6	28.1	-21.3	129.4	15.6	-25.0	-76.9	-33.3	4.0

**Table I.3** Year ending March

12 months ended March	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2019	361	232	229	91	165	28	42	7	1,155
2020	323	258	219	114	153	36	35	5	1,143
2021	277	203	306	94	165	26	30	11	1,112
2022	289	236	276	85	154	44	43	10	1,137
2023	289	259	281	93	180	48	37	17	1,204
Latest per cent change	0.0	9.7	1.8	9.4	16.9	9.1	-14.0	70.0	5.9
Average trend change per year (per cent)	-5.4	1.3	6.6	-2.5	1.8	13.6	-0.5	28.0	0.8

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

**Table 2.1** By road user

12 months ended March	Driver	Passenger	Pedestrian	Motorcyclist <sup>a</sup>	Pedal cyclist <sup>a</sup>	Total <sup>b</sup>
2019	521	212	170	209	37	1,155
2020	555	198	159	187	41	1,143
2021	547	180	126	217	37	1,112
2022	545	182	133	230	39	1,137
2023	557	189	163	246	40	1,204
Latest per cent change	2.2	3.8	22.6	7.0	2.6	5.9
Average trend change per year (per cent)	1.2	-3.1	-2.6	5.5	1.1	0.8

**Table 2.2** By age-group (years)

12 months ended March	0 to 7	8 to 16	17 to 25	26 to 39	40 to 64	65 to 74	≥ 75	Total <sup>b</sup>
2019	17	40	214	257	368	114	142	1,155
2020	13	28	240	263	335	99	163	1,143
2021	21	39	205	293	343	86	120	1,112
2022	18	42	225	236	355	115	142	1,137
2023	18	46	228	267	378	119	145	1,204
Latest per cent change	0.0	9.5	1.3	13.1	6.5	3.5	2.1	5.9
Average trend change per year (per cent)	4.5	7.1	0.6	-0.3	1.1	2.4	-1.0	0.8

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

**Table 2.3** By gender

12 months ended March	Males	Females	Total <sup>c</sup>
2019	869	285	1,155
2020	871	272	1,143
2021	814	294	1,112
2022	853	282	1,137
2023	885	318	1,204
<i>Latest per cent change</i>	3.8	12.8	5.9
<i>Average trend change per year (per cent)</i>	0.2	2.6	0.8

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 March

12 months ended March	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2019	4.5	3.6	4.6	5.2	6.3	5.2	16.9	1.6	4.6
2020	4.0	3.9	4.3	6.4	5.7	6.5	14.1	1.1	4.5
2021	3.4	3.1	5.9	5.2	6.0	4.6	12.0	2.4	4.3
2022	3.6	3.6	5.3	4.7	5.6	7.8	17.2	2.2	4.4
2023	3.5	3.9	5.2	5.1	6.4	8.4	14.8	3.7	4.6
<i>Latest per cent change</i>	-1.3	8.0	-0.4	7.9	14.8	8.3	-14.3	67.7	4.2
<i>Average trend change per year (per cent)</i>	-6.0	0.7	5.0	-3.4	0.2	12.2	-0.7	26.3	-0.1

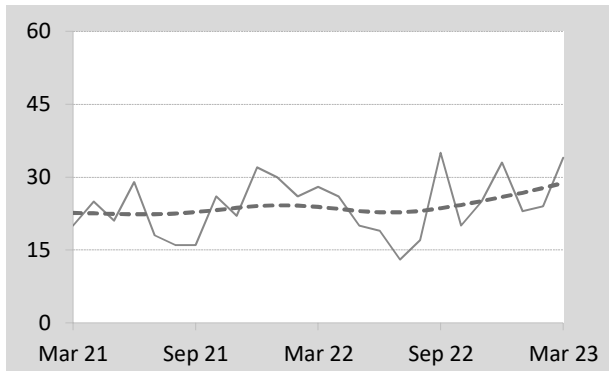
**Table 3.2** Calendar year period

Calendar year	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
2018	4.4	3.3	4.9	4.6	6.1	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	3.6	3.6	5.6	3.9	6.3	8.9	18.7	3.9	4.6
<i>Latest per cent change</i>	5.4	3.2	5.0	-29.0	4.0	44.8	33.5	62.5	4.3

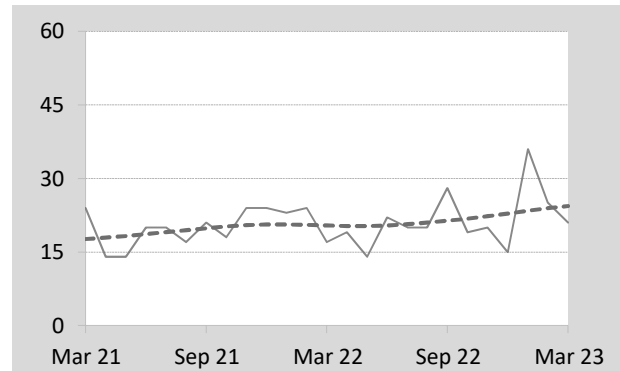
#### 4. Monthly deaths by jurisdiction — last 24 months

— raw  
 - - - smoothed  
 (Whittaker-Henderson)

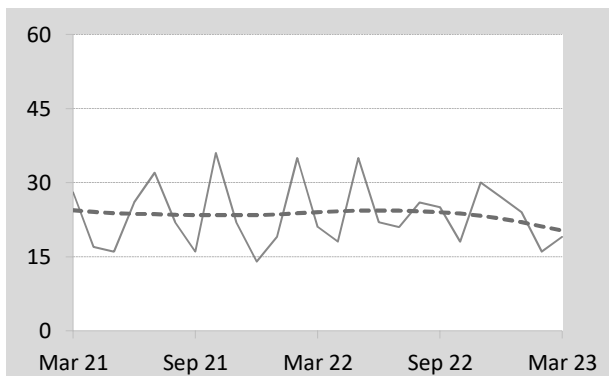
**Figure 4.1 NSW**



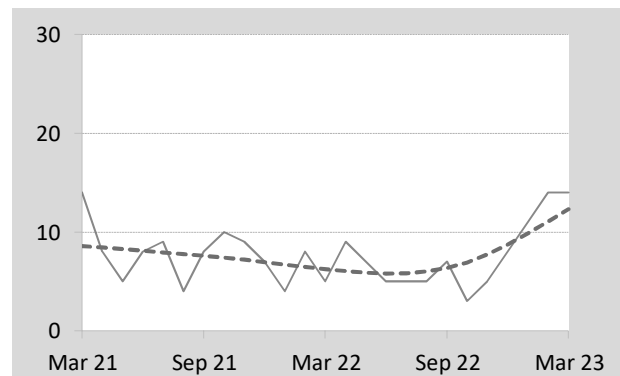
**Figure 4.2 Vic**



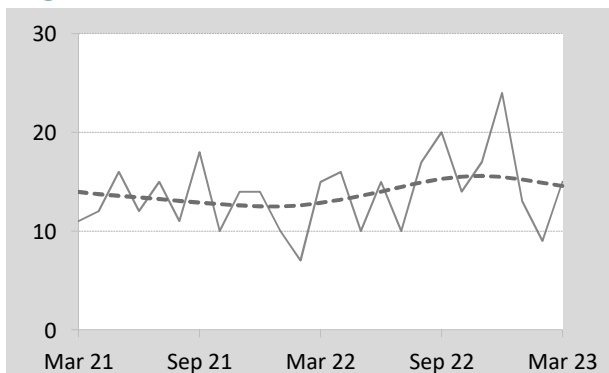
**Figure 4.3 Qld**



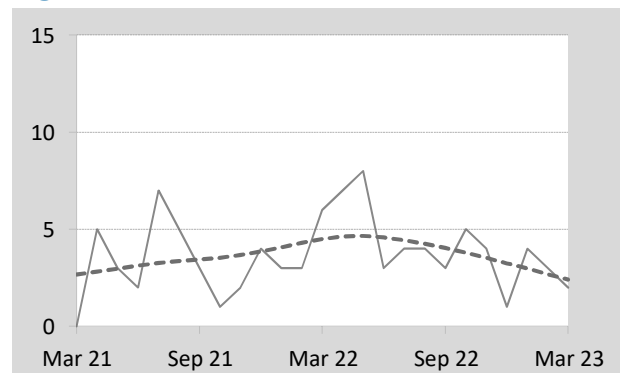
**Figure 4.4 SA**



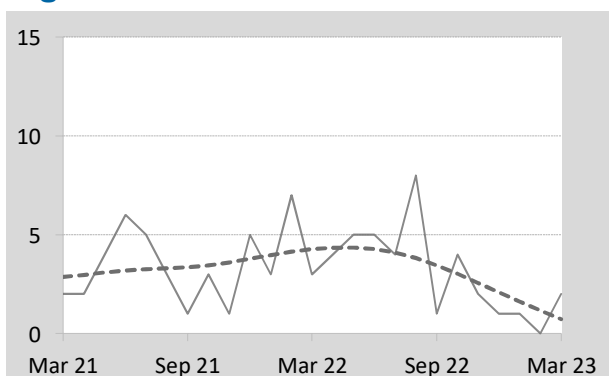
**Figure 4.5 WA**



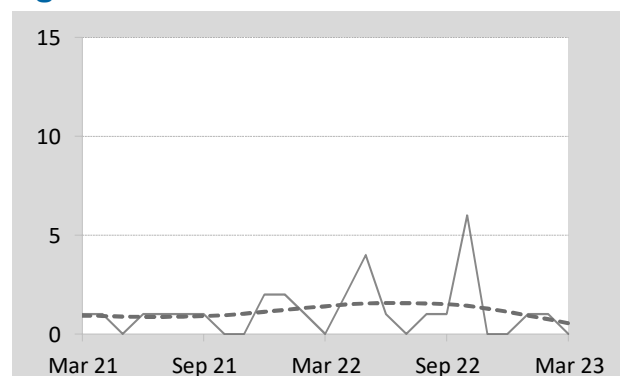
**Figure 4.6 Tas**



**Figure 4.7 NT**



**Figure 4.8 ACT**



Month	NSW		Vic		Qld		SA		WA	
	Raw		Raw		Raw		Raw		Raw	
		Trend (W-H)		Trend (W-H)		Trend (W-H)		Trend (W-H)		Trend (W-H)
Jan-20	23	26.3	23	19.8	10	18.9	8	8.9	11	11.8
Feb-20	30	25.7	18	19.3	15	19.5	8	8.7	12	11.9
Mar-20	24	25.2	26	18.8	23	20.3	14	8.4	11	12.0
Apr-20	23	24.6	17	18.2	20	21.3	7	8.1	9	12.2
May-20	20	24.2	15	17.6	22	22.3	7	7.7	15	12.5
Jun-20	22	23.9	16	17.1	27	23.2	2	7.5	12	12.8
Jul-20	24	23.7	15	16.7	25	24.1	10	7.4	14	13.2
Aug-20	26	23.5	14	16.5	27	24.7	5	7.4	13	13.6
Sep-20	29	23.3	14	16.4	25	25.2	3	7.5	10	13.9
Oct-20	17	23.2	22	16.4	30	25.4	7	7.8	18	14.2
Nov-20	24	23.0	15	16.5	24	25.5	14	8.1	19	14.4
Dec-20	22	22.9	16	16.7	30	25.4	8	8.3	11	14.4
Jan-21	24	22.8	14	17.0	20	25.1	8	8.5	25	14.4
Feb-21	26	22.7	21	17.3	28	24.8	9	8.5	8	14.2
Mar-21	20	22.6	24	17.6	28	24.4	14	8.5	11	13.9
Apr-21	25	22.5	14	17.9	17	24.0	8	8.4	12	13.7
May-21	21	22.4	14	18.2	16	23.8	5	8.3	16	13.6
Jun-21	29	22.3	20	18.6	26	23.7	8	8.1	12	13.4
Jul-21	18	22.3	20	19.0	32	23.6	9	7.9	15	13.2
Aug-21	16	22.5	17	19.4	22	23.5	4	7.7	11	13.1
Sep-21	16	22.8	21	19.8	16	23.4	8	7.6	18	12.9
Oct-21	26	23.2	18	20.2	36	23.4	10	7.4	10	12.7
Nov-21	22	23.7	24	20.4	22	23.4	9	7.2	14	12.6
Dec-21	32	24.0	24	20.6	14	23.4	7	6.9	14	12.5
Jan-22	30	24.2	23	20.6	19	23.6	4	6.7	10	12.5
Feb-22	26	24.1	24	20.5	35	23.8	8	6.4	7	12.6
Mar-22	28	23.8	17	20.4	21	24.0	5	6.2	15	12.8
Apr-22	26	23.4	19	20.3	18	24.2	9	6.0	16	13.2
May-22	20	23.0	14	20.3	35	24.3	7	5.9	10	13.6
Jun-22	19	22.8	22	20.4	22	24.3	5	5.8	15	14.0
Jul-22	13	22.7	20	20.6	21	24.3	5	5.8	10	14.5
Aug-22	17	23.0	20	21.0	26	24.2	5	6.0	17	14.9
Sep-22	35	23.6	28	21.4	25	24.0	7	6.4	20	15.3
Oct-22	20	24.2	19	21.8	18	23.7	3	6.9	14	15.5
Nov-22	25	25.0	20	22.2	30	23.3	5	7.7	17	15.6
Dec-22	33	25.9	15	22.8	27	22.7	8	8.7	24	15.5
Jan-23	23	26.8	36	23.4	24	22.0	11	9.9	13	15.2
Feb-23	24	27.7	25	23.9	16	21.1	14	11.1	9	14.9
Mar-23	34	28.8	21	24.3	19	20.3	14	12.3	15	14.6

Tas		NT		ACT	
Raw	Trend (W-H)	Raw	Trend (W-H)	Raw	Trend (W-H)
6	3.0	1	2.8	0	0.5
6	3.0	4	2.8	0	0.5
3	3.0	1	2.7	0	0.5
1	2.9	1	2.7	2	0.5
2	2.8	1	2.6	0	0.6
0	2.7	3	2.7	0	0.6
3	2.7	4	2.7	1	0.7
6	2.7	5	2.7	0	0.7
0	2.7	0	2.7	2	0.8
6	2.7	3	2.7	1	0.8
3	2.6	3	2.7	0	0.9
2	2.6	5	2.8	1	0.9
2	2.6	3	2.8	1	0.9
1	2.6	0	2.8	2	0.9
0	2.7	2	2.9	1	0.9
5	2.8	2	3.0	1	0.9
3	3.0	4	3.1	0	0.9
2	3.1	6	3.2	1	0.9
7	3.3	5	3.3	1	0.9
5	3.4	3	3.3	1	0.9
3	3.4	1	3.4	1	0.9
1	3.5	3	3.4	0	0.9
2	3.7	1	3.6	0	1.0
4	3.9	5	3.8	2	1.1
3	4.1	3	4.0	2	1.2
3	4.3	7	4.1	1	1.3
6	4.5	3	4.3	0	1.4
7	4.6	4	4.3	2	1.5
8	4.7	5	4.3	4	1.5
3	4.6	5	4.3	1	1.6
4	4.4	4	4.1	0	1.6
4	4.3	8	3.8	1	1.5
3	4.0	1	3.5	1	1.5
5	3.8	4	3.0	6	1.4
4	3.5	2	2.6	0	1.3
1	3.2	1	2.1	0	1.1
4	3.0	1	1.6	1	0.9
3	2.7	0	1.2	1	0.7
2	2.4	2	0.7	0	0.5

## 5. Fatal crashes: counts and characteristics

**Table 5.1** By crash type and posted speed limit

12 months ended March	Crash type <sup>a</sup>		Posted speed limit (km/h)						Total <sup>b</sup>
	Single	Multiple	≤ 40	50	60 to 70	80 to 90	100	≥ 110	
2019	662	407	16	123	238	171	346	167	1,069
2020	628	429	22	137	231	174	333	153	1,057
2021	570	450	14	116	236	191	338	115	1,020
2022	628	430	20	128	252	157	347	141	1,058
2023	690	432	25	117	288	179	313	145	1,122
Latest per cent change	9.9	0.5	25.0	-8.6	14.3	14.0	-9.8	2.8	6.0
Average trend change per year (per cent)	0.8	1.2	8.3	-1.7	4.8	-0.1	-1.6	-3.6	1.0

**Table 5.2** By day of week and time of day

12 months ended March	Day of week <sup>c</sup>		Time of day <sup>d</sup>	
	Weekday	Weekend	Day	Night
2019	641	428	617	452
2020	647	410	538	519
2021	590	430	623	397
2022	655	403	639	419
2023	685	437	675	446
Latest per cent change	4.6	8.4	5.6	6.4
Average trend change per year (per cent)	1.5	0.2	3.6	-2.4

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.

### 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](http://www.bitre.gov.au/statistics/safety/fatal_road_crash_database.aspx)>.

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