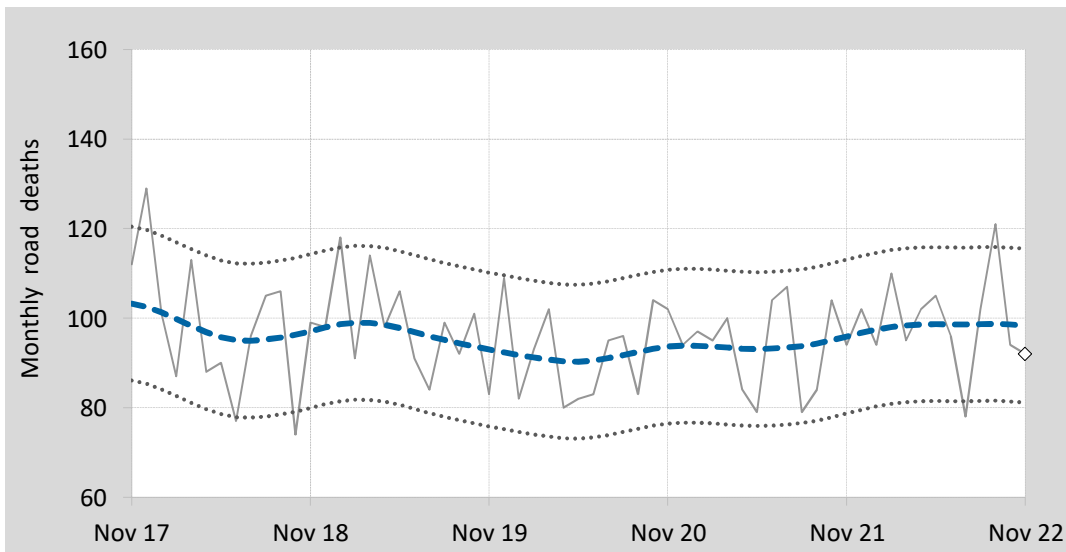




### This month's key figures

- There was a total of 92 road deaths during the month of November 2022. The current figure is 6.1 per cent lower than the average for November over the previous five years.
- During the 12 months ended November 2022, there were 1,191 road deaths. This is an increase of 6.2 per cent from the 12-month period ending November 2021.
- Presently, the rate of annual deaths per 100,000 population stands at 4.6. This is a 5.0 per cent increase compared to the rate for the 12-month period ending November 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 of Planning, Transport and Infrastructure, 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 |
|-----------------|-----|-------|------|-------|------|------|-------|-----|-----------|
| November 2021   | 22  | 24    | 22   | 9     | 14   | 2    | 1     | 0   | 94        |
| November 2022   | 22  | 18    | 28   | 3     | 16   | 3    | 2     | 0   | 92        |
| Per cent change | 0.0 | -25.0 | 27.3 | -66.7 | 14.3 | 50.0 | 100.0 | 0.0 | -2.1      |

**Table I.2** Year to date

| Year to date                 | NSW | Vic  | Qld | SA    | WA   | Tas  | NT   | ACT   | Australia |
|------------------------------|-----|------|-----|-------|------|------|------|-------|-----------|
| January 2021 - November 2021 | 243 | 207  | 263 | 92    | 152  | 31   | 30   | 9     | 1,027     |
| January 2022 - November 2022 | 265 | 229  | 272 | 61    | 149  | 49   | 46   | 18    | 1,089     |
| Per cent change              | 9.1 | 10.6 | 3.4 | -33.7 | -2.0 | 58.1 | 53.3 | 100.0 | 6.0       |

**Table I.3** Year ending November

| 12 months ended November                 | NSW  | Vic  | Qld  | SA    | WA   | Tas  | NT   | ACT   | Australia |
|--|------|------|------|-------|------|------|------|-------|-----------|
| 2018                                     | 359  | 225  | 245  | 80    | 165  | 31   | 51   | 9     | 1,165     |
| 2019                                     | 352  | 262  | 227  | 110   | 162  | 30   | 27   | 5     | 1,175     |
| 2020                                     | 291  | 216  | 264  | 98    | 158  | 39   | 38   | 7     | 1,111     |
| 2021                                     | 265  | 223  | 293  | 100   | 162  | 33   | 35   | 10    | 1,121     |
| 2022                                     | 297  | 253  | 286  | 68    | 163  | 53   | 51   | 20    | 1,191     |
| Latest per cent change                   | 12.1 | 13.5 | -2.4 | -32.0 | 0.6  | 60.6 | 45.7 | 100.0 | 6.2       |
| Average trend change per year (per cent) | -6.4 | 0.7  | 5.8  | -4.1  | -0.2 | 12.4 | 2.6  | 25.7  | 0.0       |

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

**Table 2.1** By road user

| 12 months ended November                 | Driver | Passenger | Pedestrian | Motorcyclist <sup>a</sup> | Cyclist <sup>a</sup> | Total <sup>b</sup> |       |
|--|--------|-----------|------------|---------------------------|----------------------|--------------------|-------|
| 2018                                     | 546    | 206       | 167        |                           | 204                  | 33                 | 1,165 |
| 2019                                     | 556    | 204       | 169        |                           | 207                  | 36                 | 1,175 |
| 2020                                     | 541    | 196       | 136        |                           | 188                  | 46                 | 1,111 |
| 2021                                     | 540    | 184       | 132        |                           | 221                  | 37                 | 1,121 |
| 2022                                     | 552    | 177       | 165        |                           | 247                  | 37                 | 1,191 |
| Latest per cent change                   | 2.2    | -3.8      | 25.0       |                           | 11.8                 | 0.0                | 6.2   |
| Average trend change per year (per cent) | -0.1   | -4.0      | -2.7       |                           | 4.6                  | 2.6                | 0.0   |

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

| 12 months ended November                 | 0 to 7 | 8 to 16 | 17 to 25 | 26 to 39 | 40 to 64 | 65 to 74 | ≥ 75  | Total <sup>b</sup> |
|--|--------|---------|----------|----------|----------|----------|-------|--------------------|
| 2018                                     | 11     | 38      | 227      | 258      | 378      | 115      | 136   | 1,165              |
| 2019                                     | 19     | 28      | 240      | 241      | 366      | 110      | 169   | 1,175              |
| 2020                                     | 19     | 36      | 211      | 302      | 337      | 74       | 128   | 1,111              |
| 2021                                     | 21     | 41      | 217      | 246      | 342      | 109      | 143   | 1,121              |
| 2022                                     | 17     | 52      | 227      | 260      | 383      | 120      | 127   | 1,191              |
| Latest per cent change                   | -19.0  | 26.8    | 4.6      | 5.7      | 12.0     | 10.1     | -11.2 | 6.2                |
| Average trend change per year (per cent) | 10.2   | 10.6    | -1.0     | 0.4      | -0.4     | 0.8      | -3.0  | 0.0                |

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

**Table 2.3** By gender

| 12 months ended November                        | Males | Females | Total <sup>c</sup> |
|---|-------|---------|--------------------|
| 2018  | 858   | 306     | 1,165              |
| 2019  | 895   | 280     | 1,175              |
| 2020  | 806   | 301     | 1,111              |
| 2021  | 840   | 279     | 1,121              |
| 2022  | 901   | 289     | 1,191              |
| <i>Latest per cent change</i>                   | 7.3   | 3.6     | 6.2                |
| <i>Average trend change per year (per cent)</i> | 0.3   | -1.2    | 0.0                |

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 November

| 12 months ended November                        | NSW  | Vic  | Qld  | SA    | WA   | Tas  | NT   | ACT  | Australia |
|---|------|------|------|-------|------|------|------|------|-----------|
| 2018  | 4.5  | 3.5  | 4.9  | 4.6   | 6.3  | 5.7  | 20.6 | 2.1  | 4.7       |
| 2019  | 4.4  | 4.0  | 4.5  | 6.2   | 6.1  | 5.4  | 10.9 | 1.1  | 4.6       |
| 2020  | 3.6  | 3.3  | 5.1  | 5.5   | 5.8  | 6.9  | 15.3 | 1.6  | 4.3       |
| 2021  | 3.3  | 3.4  | 5.6  | 5.5   | 5.9  | 5.8  | 14.0 | 2.2  | 4.4       |
| 2022  | 3.6  | 3.8  | 5.4  | 3.7   | 5.9  | 9.3  | 20.3 | 4.4  | 4.6       |
| <i>Latest per cent change</i>                   | 11.2 | 12.2 | -4.3 | -32.7 | -0.6 | 59.5 | 44.9 | 98.1 | 5.0       |
| <i>Average trend change per year (per cent)</i> | -6.9 | 0.1  | 4.3  | -5.1  | -1.7 | 10.8 | 2.3  | 23.9 | -0.9      |

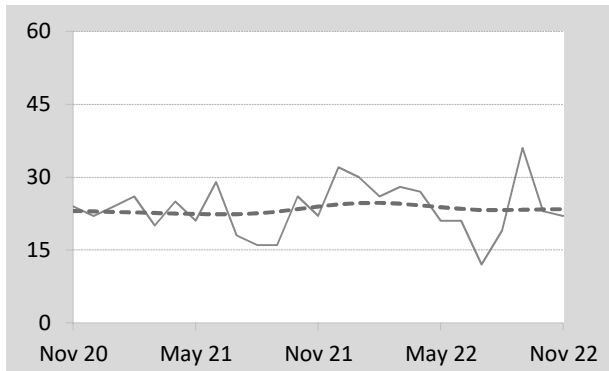
**Table 3.2** Calendar year period

| Calendar year                 | NSW  | Vic  | Qld  | SA  | WA  | Tas  | NT   | ACT  | Australia |
|-------------------------------|------|------|------|-----|-----|------|------|------|-----------|
| 2017                          | 5.0  | 4.1  | 5.0  | 5.8 | 6.1 | 6.1  | 12.5 | 1.2  | 5.0       |
| 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       |
| <i>Latest per cent change</i> | -3.2 | 10.5 | -1.2 | 5.9 | 6.6 | -8.6 | 12.8 | 56.1 | 2.9       |

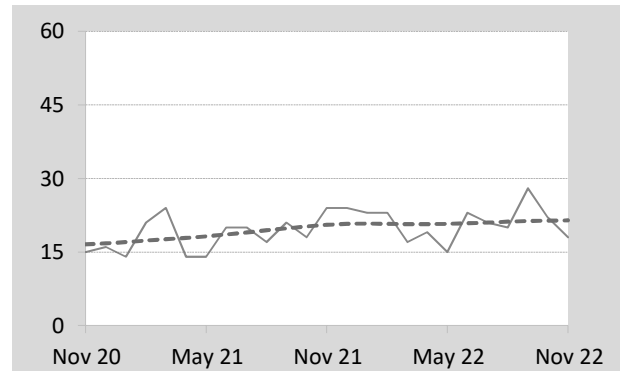
#### 4. Monthly deaths by jurisdiction — last 24 months

— raw  
 - - - smoothed  
 (Whittaker-Henderson)

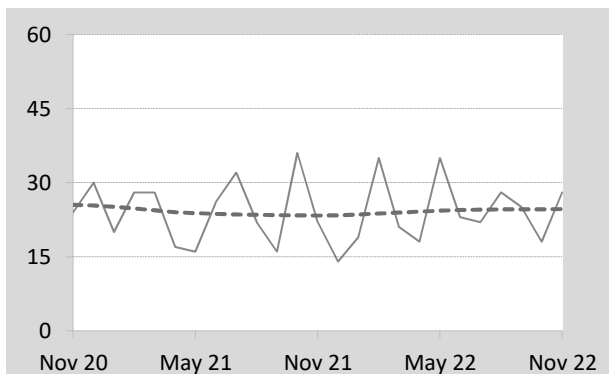
**Figure 4.1 NSW**



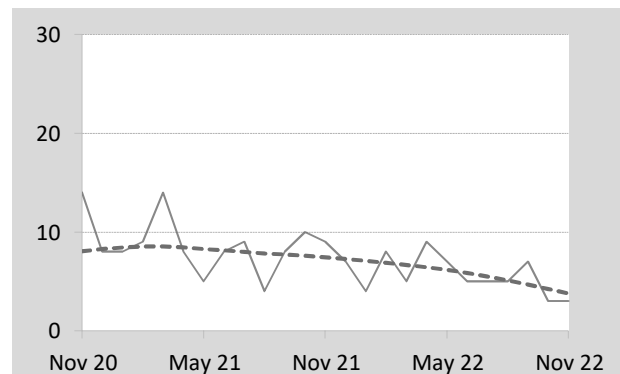
**Figure 4.2 Vic**



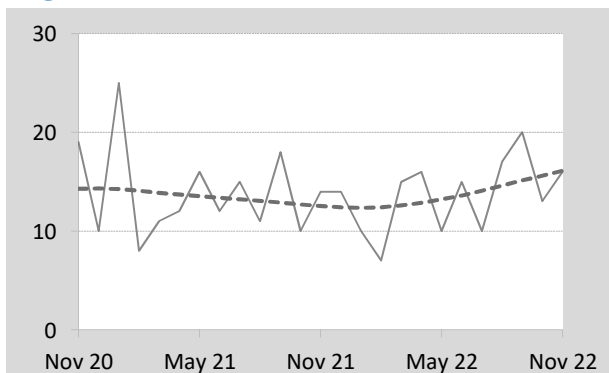
**Figure 4.3 Qld**



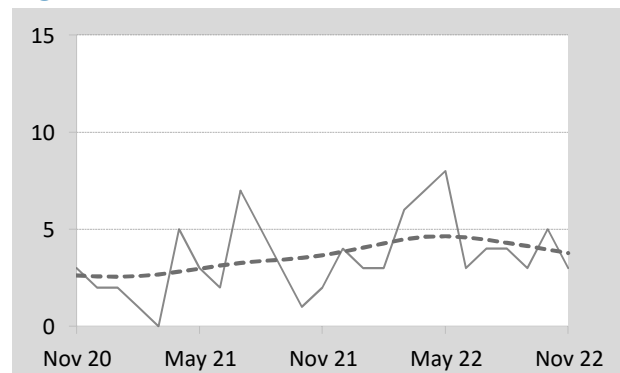
**Figure 4.4 SA**



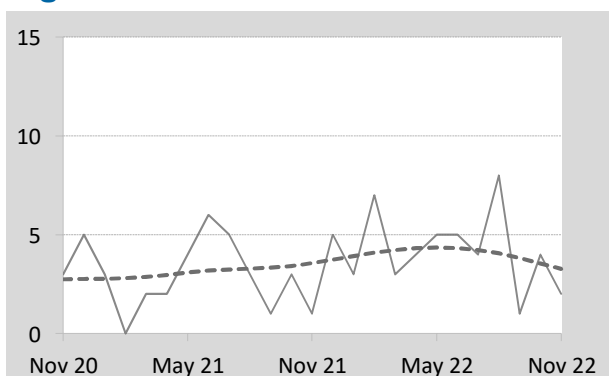
**Figure 4.5 WA**



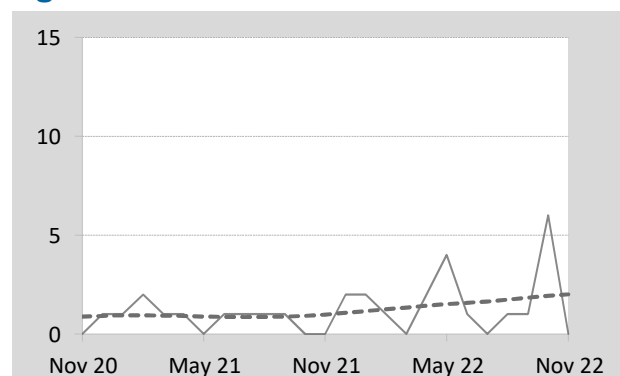
**Figure 4.6 Tas**



**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 November                 | 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 |                    |
| 2018                                     | 643                     | 438      | 17                        | 133   | 262      | 172      | 341  | 146   | 1,081              |
| 2019                                     | 663                     | 429      | 22                        | 138   | 235      | 181      | 343  | 165   | 1,092              |
| 2020                                     | 579                     | 428      | 17                        | 121   | 224      | 188      | 328  | 125   | 1,007              |
| 2021                                     | 606                     | 433      | 18                        | 126   | 249      | 152      | 338  | 141   | 1,039              |
| 2022                                     | 697                     | 425      | 19                        | 106   | 275      | 188      | 335  | 135   | 1,122              |
| Latest per cent change                   | 15.0                    | -1.8     | 5.6                       | -15.9 | 10.4     | 23.7     | -0.9 | -4.3  | 8.0                |
| Average trend change per year (per cent) | 0.7                     | -0.5     | 0.2                       | -5.3  | 1.6      | 0.0      | -0.5 | -3.1  | 0.2                |

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

| 12 months ended November                 | Day of week <sup>c</sup> |         | Time of day <sup>d</sup> |       |
|--|--------------------------|---------|--------------------------|-------|
|  | Weekday                  | Weekend | Day                      | Night |
| 2018                                     | 650                      | 431     | 672                      | 409   |
| 2019                                     | 661                      | 431     | 541                      | 551   |
| 2020                                     | 597                      | 410     | 589                      | 418   |
| 2021                                     | 634                      | 405     | 643                      | 396   |
| 2022                                     | 677                      | 445     | 644                      | 477   |
| Latest per cent change                   | 6.8                      | 9.9     | 0.2                      | 20.5  |
| Average trend change per year (per cent) | 0.4                      | 0.0     | 0.9                      | -0.2  |

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

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