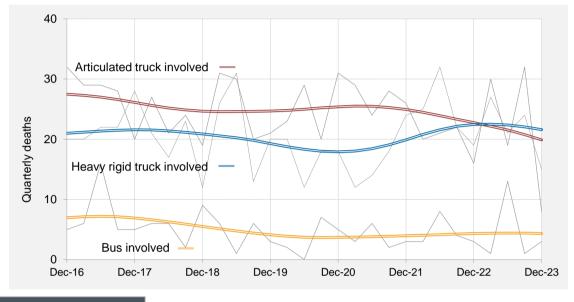


Road deaths in crashes involving heavy vehicles - quarterly bulletin, Oct-Dec 2023

Quarterly counts of deaths in crashes involving heavy vehicles, Australia, with trends



Key features

- During the 12 months to the end of December 2023, 169 people died in crashes involving heavy trucks^a. There were 89 deaths in crashes involving articulated trucks and 87 deaths in crashes involving heavy rigid trucks.
- Fatalities in crashes involving heavy trucks:
 - decreased by 1.2 per cent when compared with the corresponding 12-month period one year earlier;
 - decreased by an average of 0.6 per cent per year over the three years to December 2023.
- Fatalities in crashes involving articulated trucks:
 increased by 12.7 per cent when compared with the corresponding period one year earlier;
 decreased by an average of 8.8 per cent per year over the three years to December 2023.
- Fatalities in crashes involving heavy rigid trucks:
 - decreased by 11.2 per cent when compared with the corresponding period one year earlier;
 increased by an average of 13.1 per cent per year over the three years to December 2023.
- During the 12 months to December 2023, 18 people died in crashes involving buses.
 Fatalities in crashes involving buses:
 - were unchanged when compared with the corresponding period one year earlier;
 - increased by an average of 13.4 per cent per year over the three years to December 2023.

a Figures sum to more than the total because some crashes involved more than one type of heavy vehicle.

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ANNUAL TRENDS

Table I Deaths

	Articulated	Heavy rigid truck	Any heavy truck	Bus	All road crash	
	truck involved	involved	involved ^a	involved	deaths ^b	
12 Months ended						
December 2014	115	88	202	20	1,150	
December 2015	115	81	190	22	1,206	
December 2016	106	84	185	24	1,294	
December 2017	106	92	187	32	1,223	
December 2018	91	73	157	23	1,135	
December 2019	102	90	189	16	1,186	
December 2020	103	68	169	14	1,097	
December 2021	107	68	171	14	1,130	
December 2022	79	98	171	18	1,180	
December 2023	89	87	169	18	1,273	
Change last 12 months (%)	12.7	-11.2	-1.2	0.0	7.9	
Ave. trend change p.a.(%)						
- for last 10 years	-2.9	-0.3	-1.7	-4.7	-0.1	
- for last 3 years	-8.8	13.1	-0.6	13.4	6.1	

Table 2 Fatal crashes

	Articulated	Heavy rigid truck	Any heavy truck	Bus	All fatal road
	truck involved	involved	involved ^a	involved	crashes ^c
12 Months ended					
December 2014	101	76	176	16	1,050
December 2015	102	72	170	19	1,102
December 2016	93	75	164	23	1,200
December 2017	93	87	170	27	1,127
December 2018	79	64	138	21	1,055
December 2019	95	82	174	14	1,098
December 2020	86	63	147	13	998
December 2021	97	64	157	14	1,049
December 2022	70	87	152	18	1,105
December 2023	74	81	150	9	1,164
Change last 12 months (%)	5.7	-6.9	-1.3	-50.0	5.3
Ave. trend change p.a.(%)					
- for last 10 years	-3.1	0.2	-1.6	-6.2	0.0
- for last 3 years	-12.7	12.5	-2.3	-19.8	5.3

Figures sum to more than the total because some crashes involved more than one type of heavy vehicle. а

All deaths, whether or not crash involved a heavy vehicle. All fatal road crashes, whether or not involving a heavy vehicle. b

с

ARTICULATED TRUCK INVOLVEMENT

· · · · · · · · · · · · · · · · · · ·						0			
	NSW	Vic	Qld	SA	WA	Tas	NT	ACT Au	stralia
Quarter ended									
March-21	5	5	14	3	2	0	0	0	29
June-21	6	2	8	2	5	1	0	0	24
September-21	9	5	10	1	1	2	0	0	28
December-21	7	6	8	4	0	0	1	0	26
March-22	6	2	9	0	1	0	2	0	20
June-22	5	2	9	1	4	0	0	0	21
September-22	3	9	6	0	2	0	2	0	22
December-22	5	4	5	0	2	0	0	0	16
March-23	11	5	8	1	2	2	1	0	30
June-23	4	8	4	0	2	1	0	0	19
September-23	10	2	13	1	0	0	6	0	32
December-23	6	0	1	0	1	0	0	0	8

Table 3Quarterly counts of deaths in crashes involving articulated trucks

Figure I



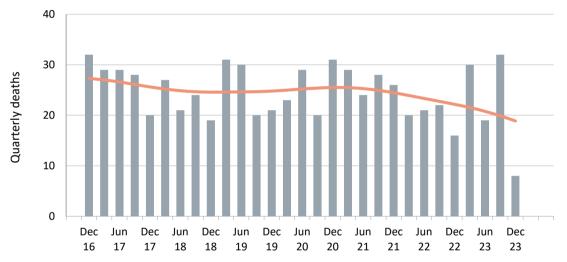


Table 4Annual counts of deaths in crashes involving articulated trucks

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT AL	ustralia
12 Months ended									
December 2019	23	22	18	23	11	4	0	1	102
December 2020	28	23	35	4	10	2	1	0	103
December 2021	27	18	40	10	8	3	1	0	107
December 2022	19	17	29	1	9	0	4	0	79
December 2023	31	15	26	2	5	3	7	0	89
Change last 12 months	63.2	-11.8	-10.3	100.0	-44.4	-	75.0	0.0	12.7
Ave. trend change p.a.(%)	7.2	-8.7	-19.4	-55.3	-20.9	-	164.6	-	-8.8

a Average annual percentage change based on the exponential trend for the last four 12-month periods.

HEAVY RIGID TRUCK INVOLVEMENT

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Quarter ended									
March-21	4	3	3	0	1	1	0	0	12
June-21	6	4	1	0	1	1	1	0	14
September-21	4	3	3	3	4	1	0	0	18
December-21	12	8	2	0	2	0	0	0	24
March-22	9	4	7	1	2	2	0	0	25
June-22	7	8	5	1	9	2	0	0	32
September-22	2	5	7	0	6	1	1	0	22
December-22	3	2	5	0	6	3	0	0	19
March-23	4	7	10	0	4	2	0	0	27
June-23	4	5	8	0	3	1	0	0	21
September-23	10	1	7	1	4	0	1	0	24
December-23	9	0	0	0	6	0	0	0	15

Table 5Quarterly counts of deaths in crashes involving heavy rigid trucks

Figure 2

Quarterly counts of deaths in crashes involving heavy rigid trucks, with trend

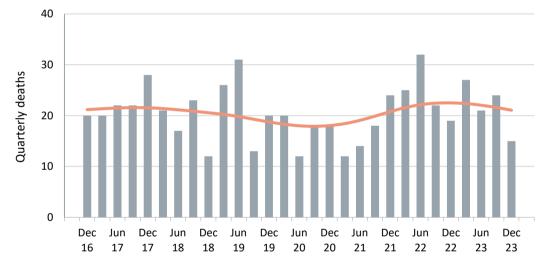


Table 6Annual counts of deaths in crashes involving heavy rigid trucks

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
12 Months ended									
December 2019	34	24	16	5	9	1	1	0	90
December 2020	29	12	11	5	10	1	0	0	68
December 2021	26	18	9	3	8	3	1	0	68
December 2022	21	19	24	2	23	8	1	0	98
December 2023	27	13	25	1	17	3	1	0	87
Change last 12 months (%)	28.6	-31.6	4.2	-50.0	-26.1	-62.5	0.0	-	-11.2
Ave. trend change p.a.(%) - for last 3 years ^a	1.9	-15.0	66.7	-42.3	45.8	0.0	-	-	13.1

a Average annual percentage change based on the exponential trend for the last four 12-month periods.

BUS INVOLVEMENT

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Quarter ended									
March-21	0	0	1	2	0	0	0	0	3
June-21	2	1	2	1	0	0	0	0	6
September-21	0	0	0	0	2	0	0	0	2
December-21	1	0	0	0	1	0	1	0	3
March-22	2	0	1	0	0	0	0	0	3
June-22	3	1	2	0	1	0	1	0	8
September-22	2	0	1	0	1	0	0	0	4
December-22	2	0	0	0	0	0	1	0	3
March-23	1	0	0	0	0	0	0	0	1
June-23	12	0	1	0	0	0	0	0	13
September-23	1	0	0	0	0	0	0	0	1
December-23	1	0	2	0	0	0	0	0	3

Table 7Quarterly counts of deaths in crashes involving buses

Figure 3

Quarterly counts of deaths in crashes involving buses, with trend

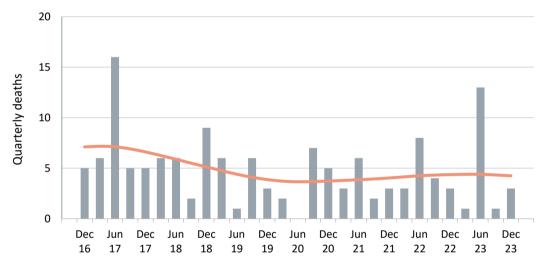


Table 8Annual counts of deaths in crashes involving buses

						-			
	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
12 Months ended									
December 2019	10	1	0	2	3	0	0	0	16
December 2020	4	1	3	2	1	3	0	0	14
December 2021	3	1	3	3	3	0	1	0	14
December 2022	9	1	4	0	2	0	2	0	18
December 2023	15	0	3	0	0	0	0	0	18
Change last 12 months (%)	66.7	-100.0	-25.0	0.0	-100.0	0.0	-100.0	0.0	0.0
Ave. trend change p.a.(%) - for last 3 years ^a	123.6	-	0.0	-	-	-	-	-	13.4

a Average annual percentage change based on the exponential trend for the last four 12-month periods.

APPENDIX

Glossary	Note. The following definitions are general explanations only. The precise definitions vary across the organisations that provide the source data. These differences may result in minor inconsistencies between jurisdictions for some variables.
Articulated truck	A motor vehicle primarily for load carrying, consisting of a prime mover that has no significant load carrying area but with a turntable device which can be linked to one or more trailers.
Heavy rigid truck	A motor vehicle of GVM greater than 4.5 tonnes constructed with a load carrying area. Includes a rigid truck with a tow bar, draw bar or other non-articulated coupling on the rear of the vehicle.
Gross Vehicle Mass (GVM)	Tare weight (i.e. unladen weight) of the motor vehicle plus its maximum carrying capacity excluding trailers.
Bus	A motor vehicle constructed for the carriage of passengers which has at least 10 seats, including the driver's seat.
Crash	Any apparently unpremeditated event reported to police, or other relevant authority, and resulting in death, injury or property damage attributable to the movement of a road vehicle on a public road.
Road death or Fatality	A person who dies within 30 days of a crash as a result of injuries received in that crash.
Fatal crash	A crash for which there is at least one death.
Preliminary data	Data for recent months are preliminary and subject to revision.
Estimation of three year trends	In this bulletin, the figures for the 'Average annual per cent change over 3 years' are calculated by fitting an exponential trend line to the last three data points. The Excel function LOGEST performs the fit. The resulting trend line represents a constant annual percent change over the period. (Note: when fitted to a series containing small numbers, this may not be a reliable indicator of a stable trend.)
Smooth trend lines	Whittaker-Henderson smoothers with a value of 80 for the smoothing parameter. The application R (package pracma) is used.
Data sources	 The data presented here are obtained from the following sources: Transport for New South Wales; Department of Transport, Victoria; Queensland Department of Transport and Main Roads; Department of Planning, Transport and Infrastructure South Australia; Western Australian Police; Department of State Growth, Tasmania; Department of Transport, Northern Territory; Transport Canberra and City Services Directorate, Australian Capital Territory;
	An online version of the database used to produce this bulletin is available from: < http://www.bitre.gov.au/statistics/safety/fatal_road_crash_database.aspx >
Inquiries	For further information about data in this bulletin, contact:
	Bureau of Infrastructure and Transport Research Economics (BITRE) Email: roadsafetystatistics@infrastructure.gov.au
	Road deaths from recent months are preliminary and subject to revision.
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