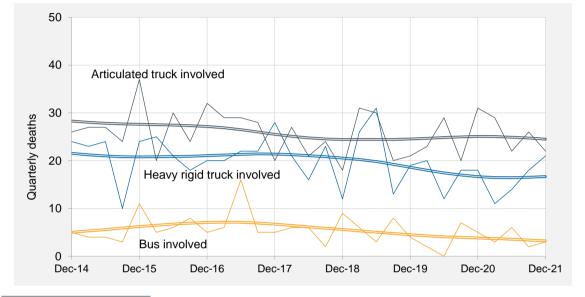


Quarterly counts of deaths in crashes involving heavy vehicles, Australia, with trends



Key features

- During the 12 months to the end of December 2021, 160 people died in crashes involving heavy trucks. These included 99 deaths in crashes involving articulated trucks and 64 deaths in crashes involving heavy rigid trucks.
- Fatalities in crashes involving heavy trucks:
 - decreased by 5.3 per cent when compared with the corresponding 12-month period one year earlier;
 - decreased by an average of 7.7 per cent per year over the three years to December 2021.
- Fatalities in crashes involving articulated trucks:
 - decreased by 3.9 per cent when compared with the corresponding period one year earlier;
 - decreased by an average of 1.5 per cent per year over the three years to December 2021.
- Fatalities in crashes involving heavy rigid trucks:
 - decreased by 5.9 per cent when compared with the corresponding period one year earlier;
 - decreased by an average of 15.2 per cent per year over the three years to December 2021.
- During the 12 months to December 2021, 14 people died in crashes involving buses.
- Counts of fatalities in crashes involving buses:
 - did not change when compared with the corresponding 12-month period one year earlier;
 - decreased by an average of 18.4 per cent per year over the three years to December 2021.

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ANNUAL TRENDS

Table I Deaths

	Articulated Truck	Heavy Rigid	Any heavy	Bus involved	All road crash	
	involved		truck involved		deaths ^a	
12 Months ended						
December 2012	153	91	239	18	1,300	
December 2013	115	66	176	12	1,187	
December 2014	115	88	202	20	1,151	
December 2015	115	81	190	22	1,204	
December 2016	106	84	185	24	1,292	
December 2017	106	92	187	32	1,222	
December 2018	90	72	155	23	1,134	
December 2019	102	89	188	21	1,186	
December 2020	103	68	169	14	1,095	
December 2021	99	64	160	14	1,129	
Change last 12 months (%	6) -3.9	-5.9	-5.3	0.0	3.1	
Ave. trend change p.a.(%)						
- for last 10 years	-3.6	-1.9	-2.9	-0.3	-1.2	
- for last 3 years	-1.5	-15.2	-7.7	-18.4	-2.4	

Table 2 Fatal crashes

	Articulated Truck	Heavy Rigid	Any heavy	Bus involved	All fatal road
	involved	Truck involved	truck involved		crashes ^b
12 Months ended					
December 2012	127	81	203	17	1,190
December 2013	95	61	151	11	1,101
December 2014	101	76	176	16	1,051
December 2015	102	72	170	19	1,100
December 2016	93	75	164	23	1,198
December 2017	93	87	170	27	1,126
December 2018	78	63	136	21	1,054
December 2019	95	81	173	19	1,100
December 2020	86	63	147	13	996
December 2021	90	61	148	14	1,048
Change last 12 months (%	6) 4.7	-3.2	0.7	7.7	5.2
Ave. trend change p.a.(%)				
- for last 10 years	-2.9	-1.4	-2.2	0.5	-1.1
- for last 3 years	-2.7	-13.2	-7.5	-14.2	-2.4

а

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

ARTICULATED TRUCK INVOLVEMENT

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Quarter ended									
Mar-19	8	9	4	7	2	1	0	0	31
Jun-19	6	5	5	7	6	1	0	0	30
Sep-19	6	2	7	2	1	1	0	1	20
Dec-19	3	6	2	7	2	1	0	0	21
Mar-20	6	8	6	1	1	1	0	0	23
Jun-20	11	8	8	1	0	1	0	0	29
Sep-20	9	0	7	1	3	0	0	0	20
Dec-20	2	7	14	1	6	0	1	0	31
Mar-21	5	5	14	3	2	0	0	0	29
Jun-21	5	2	8	2	5	0	0	0	22
Sep-21	9	3	10	1	1	2	0	0	26
Dec-21	7	2	8	4	0	0	1	0	22

Table 3Quarterly counts of deaths in crashes involving articulated trucks

Figure I



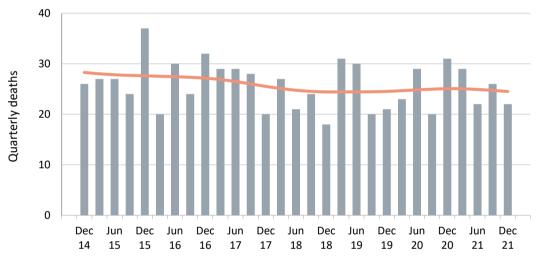


Table 4 Annual counts of deaths in crashes involving articulated trucks

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
12 Months ended									
December 2017	49	20	19	6	10	2	0	0	106
December 2018	26	14	29	6	11	2	2	0	90
December 2019	23	22	18	23	11	4	0	1	102
December 2020	28	23	35	4	10	2	1	0	103
December 2021	26	12	40	10	8	2	1	0	99
Change last 12 months (%)	-7.1	-47.8	14.3	150.0	-20.0	0.0	0.0	0.0	-3.9
Average annual % change over 3 years ^a	6.3	-26.1	49.1	-34.1	-14.7	-29.3	-	-	-1.5

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									
Mar-19	12	6	5	1	1	1	0	0	26
Jun-19	14	9	4	0	4	0	0	0	31
Sep-19	2	3	3	2	2	0	1	0	13
Dec-19	6	6	4	2	1	0	0	0	19
Mar-20	11	4	3	0	2	0	0	0	20
Jun-20	4	3	3	0	2	0	0	0	12
Sep-20	6	2	2	4	3	1	0	0	18
Dec-20	8	3	3	1	3	0	0	0	18
Mar-21	3	3	3	0	1	1	0	0	11
Jun-21	7	4	1	0	1	0	1	0	14
Sep-21	4	3	3	3	4	1	0	0	18
Dec-21	12	5	2	0	2	0	0	0	21

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

Figure 2



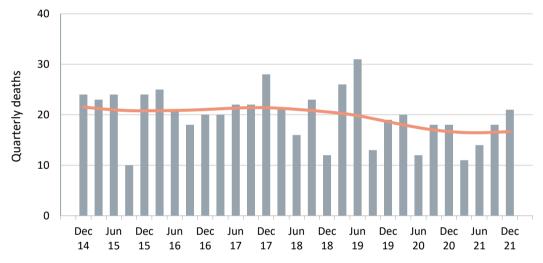


Table 6 Annual counts of deaths in crashes involving heavy rigid trucks

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
12 Months ended									
December 2017	35	20	11	5	16	5	0	0	92
December 2018	29	10	20	5	5	2	0	1	72
December 2019	34	24	16	5	8	1	1	0	89
December 2020	29	12	11	5	10	1	0	0	68
December 2021	26	15	9	3	8	2	1	0	64
Change last 12 months (%)	-10.3	25.0	-18.2	-40.0	-20.0	100.0	-	0.0	-5.9
Average annual %	-12.6	-20.9	-25.0	-22.5	0.0	41.4	-	-	-15.2
change over 3 years ^a									

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									
Mar-19	4	0	0	2	0	0	0	0	6
Jun-19	1	2	0	0	0	0	0	0	3
Sep-19	2	3	0	0	3	0	0	0	8
Dec-19	3	1	0	0	0	0	0	0	4
Mar-20	0	0	0	1	0	1	0	0	2
Jun-20	0	0	0	0	0	0	0	0	0
Sep-20	3	0	2	0	0	2	0	0	7
Dec-20	1	1	1	1	1	0	0	0	5
Mar-21	0	0	1	2	0	0	0	0	3
Jun-21	2	1	2	1	0	0	0	0	6
Sep-21	0	0	0	0	2	0	0	0	2
Dec-21	1	0	0	0	1	0	1	0	3

Table 7 Quarterly counts of deaths in crashes involving buses

Figure 3



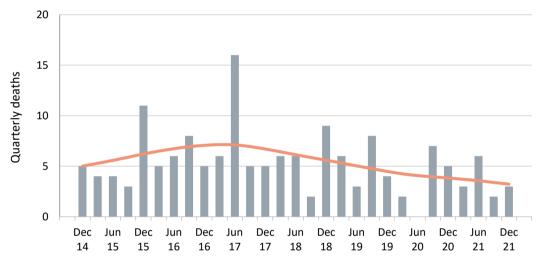


Table 8 Annual counts of deaths in crashes involving buses

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
12 Months ended									
December 2017	6	10	10	0	3	1	2	0	32
December 2018	7	5	5	0	4	1	0	1	23
December 2019	10	6	0	2	3	0	0	0	21
December 2020	4	1	3	2	1	3	0	0	14
December 2021	3	1	3	3	3	0	1	0	14
Change last 12 months (%)	-25.0	0.0	0.0	50.0	200.0	-100.0	-	0.0	0.0
Average annual % change over 3 years ^a	-45.2	-59.2	-	22.5	0.0	-	-	-	-18.4

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

APPENDIX

Glossary	<u>Note.</u> 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:
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