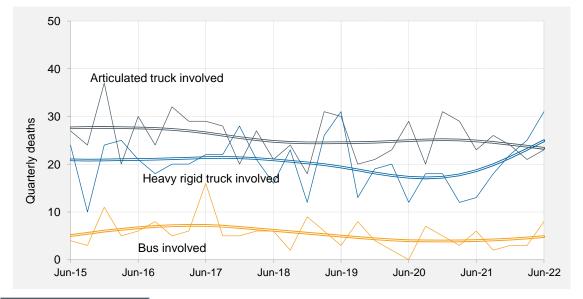


Road deaths in crashes involving heavy vehicles - quarterly bulletin, Apr-Jun 2022

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



Key features

- During the 12 months to the end of June 2022, 187 people died in crashes involving heavy trucks. These included 94 deaths in crashes involving articulated trucks and 96 deaths in crashes involving heavy rigid trucks.
- Fatalities in crashes involving heavy trucks:
 - increased by 16.1 per cent when compared with the corresponding 12-month period one year earlier;
 - increased by an average of 9.8 per cent per year over the three years to June 2022.
- Fatalities in crashes involving articulated trucks:
 - decreased by 8.7 per cent when compared with the corresponding period one year earlier; - increased by an average of 0.5 per cent per year over the three years to June 2022.
- Fatalities in crashes involving heavy rigid trucks:
 - increased by 57.4 per cent when compared with the corresponding period one year earlier;
 - increased by an average of 22.5 per cent per year over the three years to June 2022.
- During the 12 months to June 2022, 16 people died in crashes involving buses.
- Counts of fatalities in crashes involving buses:
 - decreased by 23.8 per cent when compared with the corresponding 12-month period one year earlier;
 - increased by an average of 6.9 per cent per year over the three years to June 2022.

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ANNUAL TRENDS

Table I Deaths

	Articulated Truck	Heavy Rigid	Any heavy	Bus involved	All road crash
	involved	Truck involved	truck involved		deaths ^a
12 Months ended					
June 2013	143	79	219	15	1,263
June 2014	122	86	204	13	1,155
June 2015	107	87	192	20	1,170
June 2016	111	80	186	25	1,259
June 2017	114	80	185	35	1,223
June 2018	96	87	173	22	1,213
June 2019	103	92	191	20	1,196
June 2020	93	64	155	14	1,090
June 2021	103	61	161	21	1,130
June 2022	94	96	187	16	1,179
Change last 12 months (%	5) -8.7	57.4	16.1	-23.8	4.3
Ave. trend change p.a.(%)					
- for last 10 years	-3.6	-1.0	-2.5	0.6	-0.8
- for last 3 years	0.5	22.5	9.8	6.9	4.0

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					
June 2013	113	71	181	13	1,150
June 2014	111	75	182	13	1,068
June 2015	90	77	165	16	1,060
June 2016	96	69	162	22	1,157
June 2017	99	77	169	30	1,142
June 2018	88	79	158	21	1,124
June 2019	92	80	169	17	1,103
June 2020	80	60	138	13	997
June 2021	94	57	148	20	1,055
June 2022	82	87	166	16	1,090
Change last 12 months (%	6) -12.8	52.6	12.2	-20.0	3.3
Ave. trend change p.a.(%))				
- for last 10 years	-2.9	-0.5	-1.8	1.7	-0.6
- for last 3 years	1.2	20.4	9.7	10.9	4.6

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

b

ARTICULATED TRUCK INVOLVEMENT

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Quarter ended									
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	6	2	8	2	5	0	0	0	23
Sep-21	9	3	10	1	1	2	0	0	26
Dec-21	7	4	8	4	0	0	1	0	24
Mar-22	7	2	9	0	1	0	2	0	21
Jun-22	6	2	9	2	4	0	0	0	23

Table 3Quarterly counts of deaths in crashes involving articulated trucks

Figure I



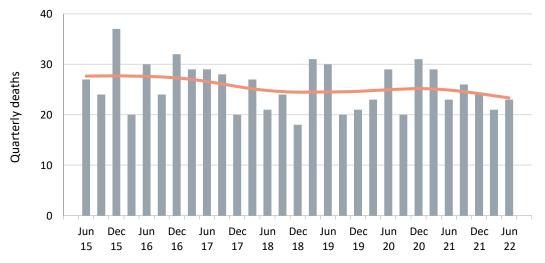


Table 4 Annual counts of deaths in crashes involving articulated trucks

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
12 Months ended									
June 2018	36	17	22	7	11	3	0	0	96
June 2019	24	21	24	16	14	2	2	0	103
June 2020	26	24	23	11	4	4	0	1	93
June 2021	22	14	43	7	16	0	1	0	103
June 2022	29	11	36	7	6	2	3	0	94
Change last 12 months (%)	31.8	-21.4	-16.3	0.0	-62.5	-	200.0	-	-8.7
Average annual % change over 3 years ^a	5.6	-32.3	25.1	-20.2	22.5	-	-	-	0.5

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									
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	4	3	3	0	1	1	0	0	12
Jun-21	6	4	1	0	1	0	1	0	13
Sep-21	4	3	3	3	4	1	0	0	18
Dec-21	12	6	2	0	2	0	0	0	22
Mar-22	9	3	7	2	2	2	0	0	25
Jun-22	7	6	5	2	9	2	0	0	31

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

Figure 2



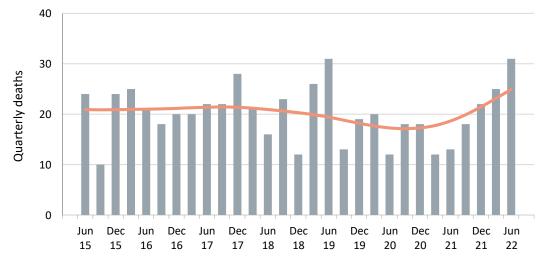


Table 6 Annual counts of deaths in crashes involving heavy rigid trucks

							0	, 0	
	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
12 Months ended									
June 2018	33	19	13	6	12	4	0	0	87
June 2019	40	19	19	3	8	2	0	1	92
June 2020	23	16	13	4	7	0	1	0	64
June 2021	24	12	9	5	8	2	1	0	61
June 2022	32	18	17	7	17	5	0	0	96
Change last 12 months (%)	33.3	50.0	88.9	40.0	112.5	150.0	-100.0	-	57.4
Average annual %	18.0	6.1	14.4	32.3	55.8	-	-	-	22.5
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									
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
Mar-22	2	0	1	0	0	0	0	0	3
Jun-22	3	2	2	0	1	0	0	0	8

Table 7Quarterly counts of deaths in crashes involving buses

Figure 3



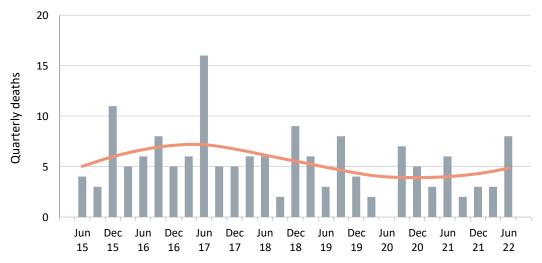


Table 8Annual counts of deaths in crashes involving buses

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
12 Months ended									
June 2018	5	9	4	0	3	0	1	0	22
June 2019	7	4	2	2	3	1	0	1	20
June 2020	5	4	0	1	3	1	0	0	14
June 2021	6	2	6	4	1	2	0	0	21
June 2022	6	2	3	0	4	0	1	0	16
Change last 12 months (%)	0.0	0.0	-50.0	-100.0	300.0	-100.0	-	-	-23.8
Average annual % change over 3 years ^a	9.5	-29.3	-	-	15.5	-	-	-	6.9

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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