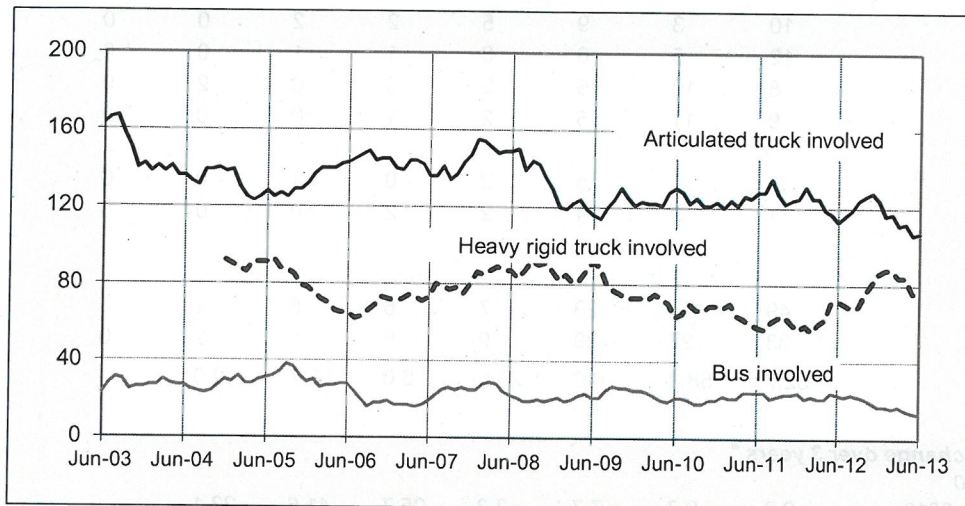




## Fatal crashes involving heavy vehicles, Australia — moving annual total

(Each point shows the number of fatal crashes during the preceding 12 months)



### Key features

- During the 12 months to the end of June 2013, 231 people died from 192 fatal crashes involving heavy trucks or buses. These included:
  - 134 deaths from 107 crashes involving articulated trucks,
  - 86 deaths from 76 crashes involving heavy rigid trucks,
  - 15 deaths from 13 crashes involving buses <sup>a</sup>.
- Fatal crashes involving articulated trucks:
  - decreased by 5.3 per cent compared with the corresponding period one year earlier,
  - decreased by an average of 6.8 per cent per year over the three years to June 2013.
- Fatal crashes involving heavy rigid trucks:
  - increased by 5.6 per cent compared with the corresponding period one year earlier,
  - increased by an average of 8.1 per cent per year over the three years to June 2013.

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

## ARTICULATED TRUCK INVOLVEMENT

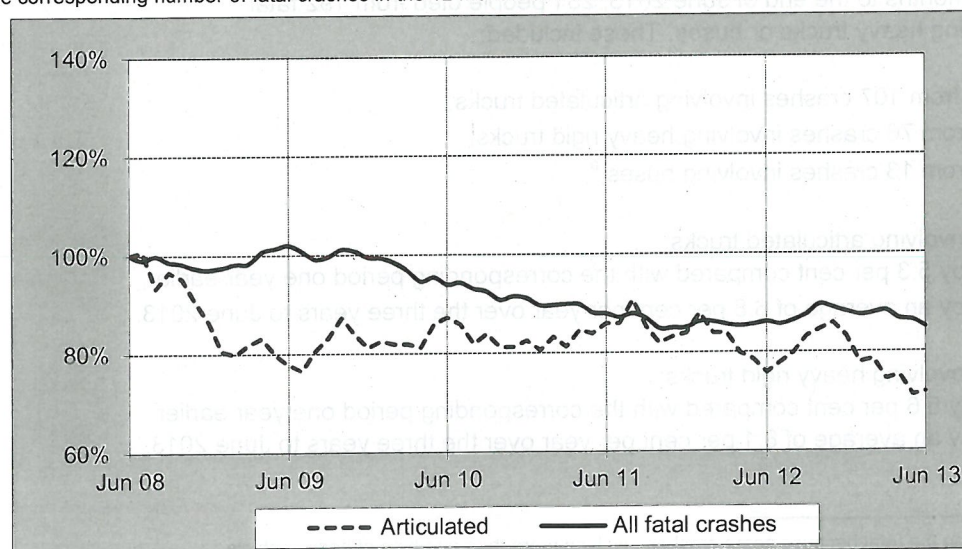
**Table 1 Fatal crashes involving articulated trucks by State/Territory**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Calendar Years</b>									
2007	53	30	38	6	14	4	2	0	147
2008	47	22	35	9	7	6	3	0	129
2009	33	17	38	9	10	10	2	2	121
2010	41	31	25	7	14	3	1	1	123
2011	43	21	32	12	12	2	3	0	125
2012	39	29	35	9	7	3	2	0	124
<b>Quarters</b>									
<b>2011</b>									
June	8	6	9	5	6	2	1	0	37
September	17	5	4	1	2	0	0	0	29
December	10	4	10	1	1	0	2	0	28
<b>2012</b>									
March	10	3	9	5	2	2	0	0	31
June	12	5	6	0	1	1	0	0	25
September	8	10	15	2	3	0	2	0	40
December	9	11	5	2	1	0	0	0	28
<b>2013</b>									
March	5	4	5	3	0	1	0	0	18
June	11	2	4	2	2	0	0	0	21
<b>12 Months ended</b>									
June 2012	49	17	29	7	6	3	2	0	113
June 2013	33	27	29	9	6	1	2	0	107
% change	-32.7	58.8	0.0	28.6	0.0	-66.7	0.0	-	-5.3
<b>Average annual % change over 3 years<sup>a</sup></b>									
<i>12 mths end Jun 2010</i>									
<i>to 12 mths end Jun 2013</i>	-2.9	-0.7	-7.7	-3.3	-25.7	-41.6	23.1	-	-6.8

<sup>a</sup> Average annual percentage change based on the exponential trend for the last three 12-month periods.

### Index of fatal crashes involving articulated trucks in Australia — five years ended June 2013

Each point shows the number of fatal crashes in the preceding 12 months expressed as a percentage of the corresponding number of fatal crashes in the 12 months to the end of June 2008.





## ARTICULATED TRUCK INVOLVEMENT

**Table 2 Deaths from crashes involving articulated trucks by State/Territory**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Calendar Years</b>									
2007	59	48	41	7	20	5	2	0	182
2008	53	23	46	10	8	6	3	0	149
2009	47	20	40	11	12	11	2	2	145
2010	51	36	29	7	15	3	1	1	143
2011	47	23	39	13	14	2	3	0	141
2012	50	30	45	10	8	3	2	0	148
<b>Quarters</b>									
<b>2011</b>									
June	9	7	13	6	7	2	1	0	45
September	19	5	4	1	2	0	0	0	31
December	11	5	10	1	1	0	2	0	30
<b>2012</b>									
March	14	4	9	5	2	2	0	0	36
June	13	5	8	0	1	1	0	0	28
September	9	10	21	2	3	0	2	0	47
December	14	11	7	3	2	0	0	0	37
<b>2013</b>									
March	5	4	8	4	0	1	0	0	22
June	12	2	7	4	3	0	0	0	28
<b>12 Months ended</b>									
June 2012	57	19	31	7	6	3	2	0	125
June 2013	40	27	43	13	8	1	2	0	134
% change	-29.8	42.1	38.7	85.7	33.3	-66.7	0.0	-	7.2
<b>Average annual % change over 3 years<sup>a</sup></b>									
<b>12 mths end Jun 2010</b>									
to 12 mths end Jun 2013	-7.8	-4.5	-0.9	3.5	-24.1	-44.2	23.1	-	-6.7

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

**Table 3 Deaths from crashes involving articulated trucks by State/Territory and road user — 12 months ended June 2013**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Drivers <sup>b</sup>	30	20	23	8	6	0	2	0	89
Passengers <sup>b</sup>	6	3	15	3	2	1	0	0	30
Pedestrians	2	3	4	1	0	0	0	0	10
Motor cyclists <sup>c</sup>	2	1	1	1	0	0	0	0	5
Cyclists	0	0	0	0	0	0	0	0	0
All road users <sup>d</sup>	40	27	43	13	8	1	2	0	134

b Includes drivers/passengers of light and heavy vehicles

c Includes pillion passengers

d Includes road users not separately specified

**Table 4 Deaths from crashes involving articulated trucks by State/Territory and crash type — 12 months ended June 2013**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Single vehicle crashes	6	3	4	1	0	0	0	0	14
Multiple vehicle crashes	32	21	35	11	8	1	2	0	110
Pedestrian crashes	2	3	4	1	0	0	0	0	10
All crash types	40	27	43	13	8	1	2	0	134

# HEAVY RIGID TRUCK INVOLVEMENT

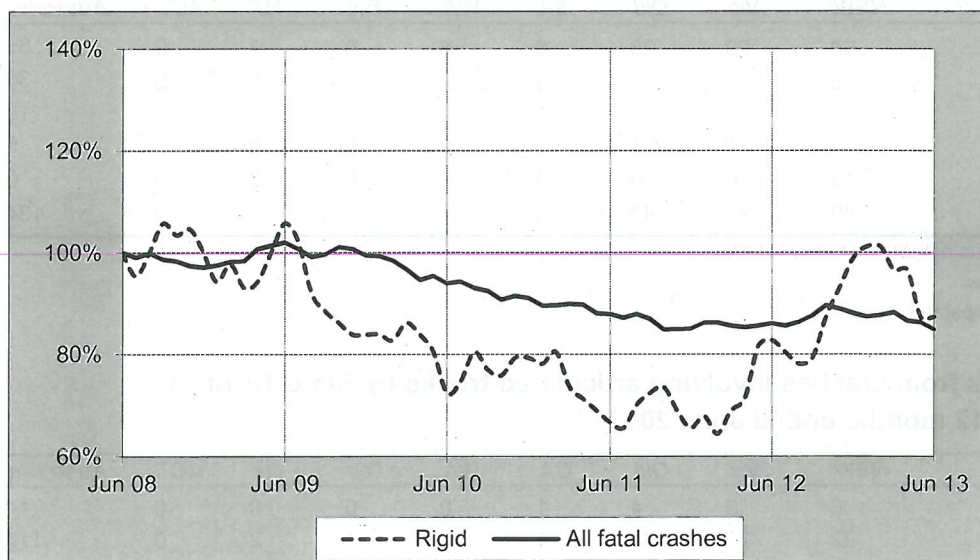
**Table 5 Fatal crashes involving heavy rigid trucks by State/Territory**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Calendar Years</b>									
2007	28	24	10	5	10	1	1	1	80
2008	12	24	21	8	18	2	2	0	87
2009	23	18	13	2	16	1	0	0	73
2010	20	19	12	2	11	4	0	1	69
2011	15	14	13	6	5	2	2	0	57
2012	22	16	23	6	15	2	1	1	86
<b>Quarters</b>									
2011									
June	2	2	3	2	2	0	0	0	11
September	3	6	7	3	1	0	2	0	22
December	5	3	2	0	0	0	0	0	10
2012									
March	5	4	4	1	3	0	0	0	17
June	5	2	8	2	4	1	1	0	23
September	7	5	3	0	3	1	0	0	19
December	5	5	8	3	5	0	0	1	27
2013									
March	3	4	2	2	4	0	0	0	15
June	6	3	2	2	2	0	0	0	15
<b>12 Months ended</b>									
June 2012	18	15	21	6	8	1	3	0	72
June 2013	21	17	15	7	14	1	0	1	76
% change	16.7	13.3	-28.6	16.7	75.0	0.0	-100.0	-	5.6
<b>Average annual % change over 3 years<sup>a</sup></b>									
12 mths end June 2010									
to 12 mths end June 2013	2.5	4.7	24.3	51.6	-0.7	-14.9	-	-	8.1

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

## Index of fatal crashes involving heavy rigid trucks in Australia — five years ended June 2013

Each point shows the number of fatal crashes in the preceding 12 months expressed as a percentage of the corresponding number of fatal crashes in the 12 months to the end of June 2008.



## HEAVY RIGID TRUCK INVOLVEMENT

**Table 6 Deaths from crashes involving heavy rigid trucks by State/Territory**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Calendar Years</b>									
2007	29	26	11	5	10	1	2	1	85
2008	12	25	24	9	19	2	2	0	93
2009	24	19	13	2	18	1	0	0	77
2010	24	24	15	2	13	5	0	1	84
2011	17	20	14	6	6	2	4	0	69
2012	23	17	27	7	18	4	1	1	98
<b>Quarters</b>									
<b>2011</b>									
June	2	2	4	2	3	0	0	0	13
September	4	6	7	3	1	0	4	0	25
December	6	9	2	0	0	0	0	0	17
<b>2012</b>									
March	6	4	4	1	3	0	0	0	18
June	5	2	9	3	4	1	1	0	25
September	7	5	6	0	4	3	0	0	25
December	5	6	8	3	7	0	0	1	30
<b>2013</b>									
March	3	4	2	2	4	0	0	0	15
June	7	3	2	2	2	0	0	0	16
<b>12 Months ended</b>									
June 2012	21	21	22	7	8	1	5	0	85
June 2013	22	18	18	7	17	3	0	1	86
% change	4.8	-14.3	-18.2	0.0	112.5	200.0	-100.0	-	1.2
<b>Average annual % change over 3 years<sup>a</sup></b>									
12 mths end Jun 2010									
to 12 mths end Jun 2013	-0.5	0.5	20.0	54.0	-1.2	-3.9	-	-	6.3

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

**Table 7 Deaths from crashes involving heavy rigid trucks by State/Territory by road user — 12 months ended June 2013**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Drivers <sup>b</sup>	13	12	9	3	11	0	0	1	49
Passengers <sup>d</sup>	7	0	4	0	2	3	0	0	16
Pedestrians	2	2	1	2	4	0	0	0	11
Motor cyclists <sup>c</sup>	0	2	2	1	0	0	0	0	6
Cyclists	0	1	2	1	0	0	0	0	4
All road users <sup>a</sup>	22	18	18	7	17	3	0	1	86

b Includes drivers/passengers of light vehicles

c Includes pillion passengers

d Includes road users not separately specified

**Table 8 Deaths from crashes involving heavy rigid trucks by State/Territory by crash type — 12 months ended June 2013**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Single vehicle crashes	1	1	0	0	1	0	0	0	3
Multiple vehicle crashes	19	15	17	5	12	3	0	1	72
Pedestrian crashes	2	2	1	2	4	0	0	0	11
All crash types	22	18	18	7	17	3	0	1	86



# BUS INVOLVEMENT

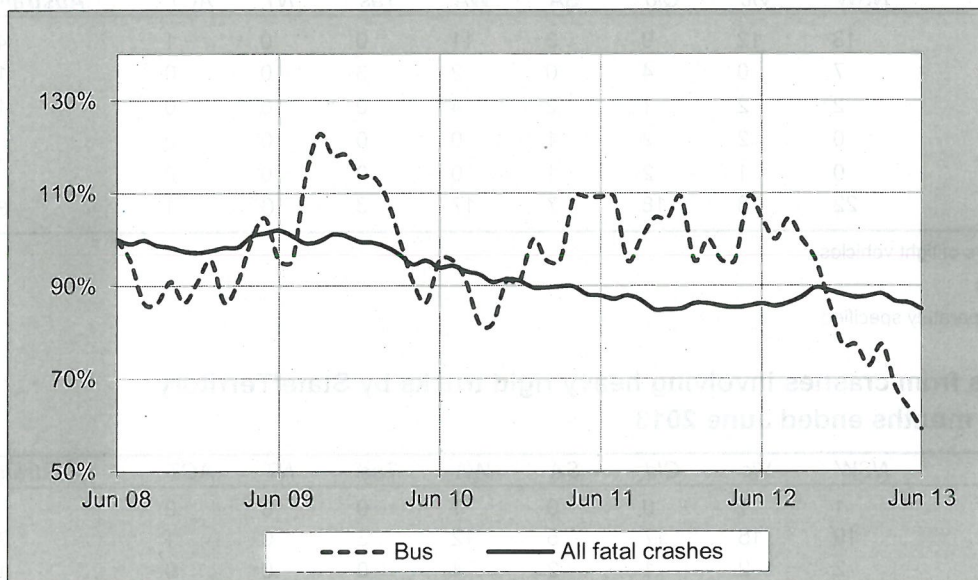
**Table 9 Fatal crashes involving buses by State/Territory**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Calendar Years</b>									
2007	11	4	7	1	2	0	0	0	25
2008	5	4	8	1	2	0	0	0	20
2009	8	6	8	2	0	1	0	0	25
2010	9	2	3	3	0	1	1	1	20
2011	11	5	7	0	1	0	0	0	24
2012	6	3	6	1	1	0	0	0	17
<b>Quarters</b>									
<b>2011</b>									
June	1	1	3	0	1	0	0	0	6
September	3	1	2	0	0	0	0	0	6
December	5	2	0	0	0	0	0	0	7
<b>2012</b>									
March	1	0	1	0	0	0	0	0	2
June	4	2	1	1	0	0	0	0	8
September	1	1	2	0	1	0	0	0	5
December	0	0	2	0	0	0	0	0	2
<b>2013</b>									
March	0	1	1	0	0	0	0	0	2
June	1	1	2	0	0	0	0	0	4
<b>12 Months ended</b>									
June 2012	13	5	4	1	0	0	0	0	23
June 2013	2	3	7	0	1	0	0	0	13
% change	-84.6	-40.0	75.0	-100.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	-43.5
<b>Average annual % change over 3 years<sup>a</sup></b>									
12 mths end Jun 2010									
to 12 mths end Jun 2013	-37.1	-3.5	11.8	-	-	-	-	-	-13.8

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

## Index of fatal crashes involving buses in Australia - five years ended June 2013

Each point shows the number of fatal crashes in the preceding 12 months expressed as a percentage of the corresponding number of fatal crashes in the 12 months to the end of June 2008



## BUS INVOLVEMENT

**Table 10 Deaths from crashes involving buses by State/Territory**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
<b>Calendar Years</b>									
2007	11	4	7	1	2	0	0	0	25
2008	5	4	9	1	2	0	0	0	21
2009	9	9	10	2	0	1	0	0	31
2010	9	2	4	3	0	1	1	1	21
2011	11	5	8	0	1	0	0	0	25
2012	6	3	7	1	1	0	0	0	18
<b>Quarters</b>									
2011									
June	1	1	3	0	1	0	0	0	6
September	3	1	2	0	0	0	0	0	6
December	5	2	0	0	0	0	0	0	7
2012									
March	1	0	1	0	0	0	0	0	2
June	4	2	1	1	0	0	0	0	8
September	1	1	3	0	1	0	0	0	6
December	0	0	2	0	0	0	0	0	2
2013									
March	0	1	2	0	0	0	0	0	3
June	1	1	2	0	0	0	0	0	4
<b>12 Months ended</b>									
June 2012	13	5	4	1	0	0	0	0	23
June 2013	2	3	9	0	1	0	0	0	15
% change	-84.6	-40.0	125.0	-100.0	-	-	-	-	-34.8
<b>Average annual % change over 3 years <sup>a</sup></b>									
12 mths end Jun 2010									
to 12 mths end Jun 2013	-38.7	-3.5	5.4	-	-	-	-	-	-13.9

<sup>a</sup> Average annual percentage change based on the exponential trend for the last three 12-month periods.

**Table 11 Deaths from crashes involving buses by State/Territory by road user - 12 months ended June 2013**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Drivers <sup>b</sup>	0	0	5	0	0	0	0	0	5
Passengers <sup>b</sup>	1	0	2	0	0	0	0	0	3
Pedestrians	0	0	1	0	0	0	0	0	1
Motor cyclists <sup>c</sup>	1	1	1	0	1	0	0	0	4
Cyclists	0	2	0	0	0	0	0	0	2
All road users <sup>d</sup>	2	3	9	0	1	0	0	0	15

<sup>b</sup> Includes drivers/passengers of light vehicles

<sup>c</sup> Includes pillion passengers

<sup>d</sup> Includes road users not separately specified

**Table 12 Deaths from crashes involving buses by State/Territory by crash type - 12 months ended June 2013**

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Single vehicle crashes	0	0	0	0	1	0	0	0	1
Multiple vehicle crashes	2	3	8	0	0	0	0	0	13
Pedestrian crashes	0	0	1	0	0	0	0	0	1
All crash types	2	3	9	0	1	0	0	0	15

## 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.

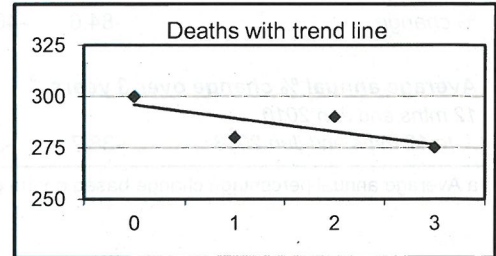
<i>Articulated truck</i>	A motor vehicle primarily for load carrying, consisting of a prime mover that has no significant load carrying area but with a turntable device which can be linked to one or more trailers.
<i>Bus</i>	A motor vehicle constructed for the carriage of passengers which has at least 10 seats, including the driver's seat.
<i>Crash</i>	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.
<i>Death</i>	A person who dies within 30 days of a crash as a result of injuries received in that crash.
<i>Fatal crash</i>	A crash for which there is at least one death.
<i>Gross Vehicle Mass (GVM)</i>	Tare weight (i.e. unladen weight) of the motor vehicle plus its maximum carrying capacity excluding trailers.
<i>Heavy rigid truck</i>	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.

**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 four data points (years 0 to 3). The Excel function LOGEST performs the fit. The resulting trend line represents a constant annual percent change over the period. An example is given below:

Cell Ref.	A	B	C
	Year	Deaths	% change
1	0	300	
2	1	280	-7%
3	2	290	4%
4	3	275	-5%
Average annual change =			-2.2%



Average annual change = INDEX (LOGEST (B1:B4 , A1:A4) , 1) -1 = -2.2%

### Data Sources

The data presented here are obtained from the following sources:

- Transport for NSW
- Vicroads
- Department of Transport and Main Roads Queensland
- Department for Transport, Energy and Infrastructure, South Australia
- Western Australia Police
- Department of Infrastructure, Energy and Resources, Tasmania
- Department of Lands and Planning, Northern Territory
- Territory and Municipal Services, 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](http://www.bitre.gov.au/statistics/safety/fatal_road_crash_database.aspx) >

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