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Department of Infrastructure and Transport
Bureau of Infrastructure, Transport and Regional Economics

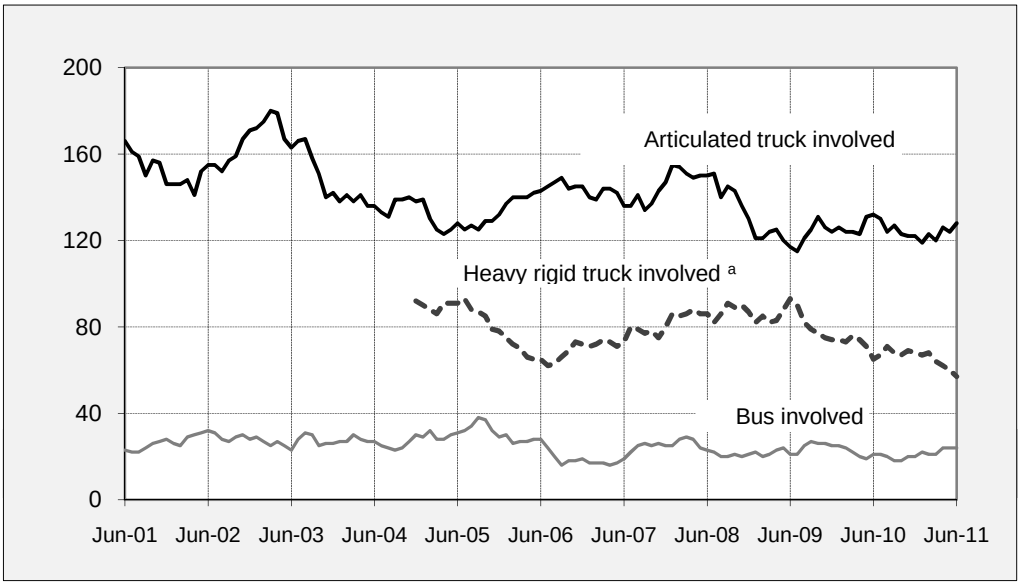
bitre

Fatal heavy vehicle crashes Australia quarterly bulletin

Apr – June 2011

Fatal crashes involving heavy vehicles, Australia — moving annual total

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



a Data unavailable prior to 2004.

Key features

- During the 12 months to the end of June 2011, 228 people died from 201 crashes involving heavy trucks or buses. These included:
  - 150 deaths from 128 crashes involving articulated trucks,
  - 61 deaths from 57 crashes involving heavy rigid trucks,
  - 25 deaths from 24 crashes involving buses [b].

- Fatal crashes involving articulated trucks:
  - decreased by 3.0 per cent compared with the corresponding period one year earlier,
  - decreased by an average of 3.5 per cent per year over the three years to June 2011.

- Fatal crashes involving heavy rigid trucks:
  - decreased by 12.3 per cent compared with the corresponding period one year earlier,
  - decreased by an average of 14.7 per cent per year over the three years to June 2011.

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

ARTICULATED TRUCKS — FATAL CRASHES

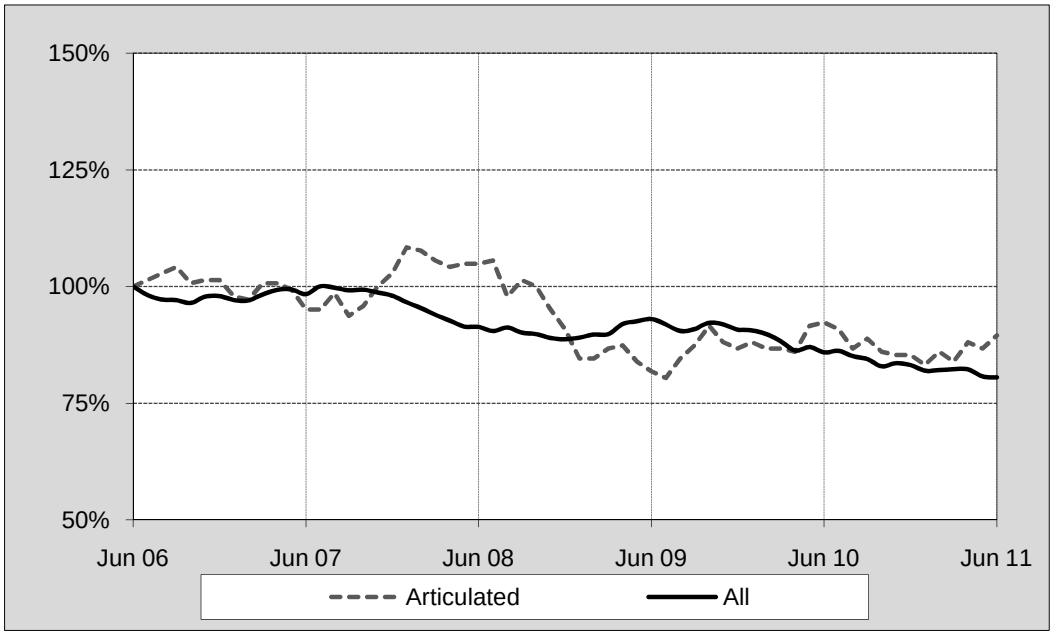
Fatal crashes involving articulated trucks by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Calendar Years									
2005	45	28	27	15	11	5	1	0	132
2006	57	26	34	9	12	5	2	0	145
2007	53	30	38	6	14	4	2	0	147
2008	47	22	35	9	8	6	3	0	130
2009	33	17	38	9	13	10	2	2	124
2010	41	32	25	7	12	3	1	1	122
Quarters									
2009									
June	9	2	4	1	3	2	1	0	22
September	11	3	14	2	1	2	1	1	35
December	6	4	11	3	8	2	0	0	34
2010									
March	16	9	5	3	0	0	0	0	33
June	9	9	7	0	3	2	0	0	30
September	8	9	5	2	4	0	1	1	30
December	8	5	8	2	5	1	0	0	29
2011									
March	9	6	9	5	2	0	0	0	31
June	9	7	9	5	6	2	0	0	38
12 Months ended									
June 2010	42	25	37	8	12	6	1	1	132
June 2011	34	27	31	14	17	3	1	1	128
% change	-19.0	8.0	-16.2	75.0	41.7	-50.0	0.0	0.0	-3.0
Average annual % change over 3 years [a]									
12 mths end June 2008 to 12 mths end June 2011	-10.4	1.1	-7.4	12.1	15.6	-22.0	-	-	-3.5

a 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 2011

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 2006.



ARTICULATED TRUCKS - DEATHS

Deaths from crashes involving articulated trucks by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Calendar Years									
2005	52	32	35	17	13	5	1	0	155
2006	69	31	37	10	14	7	2	0	170
2007	59	48	41	7	20	5	2	0	182
2008	53	23	46	10	10	6	3	0	151
2009	47	20	40	11	15	11	2	2	148
2010	51	37	29	7	13	3	1	1	142
Quarters									
2009									
June	9	3	5	1	3	2	1	0	24
September	14	4	15	3	1	3	1	1	42
December	16	4	11	3	10	2	0	0	46
2010									
March	19	9	6	3	0	0	0	0	37
June	11	11	9	0	3	2	0	0	36
September	10	10	5	2	5	0	1	1	34
December	11	7	9	2	5	1	0	0	35
2011									
March	9	6	12	5	3	0	0	0	35
June	10	8	13	6	7	2	0	0	46
12 Months ended									
June 2010	60	28	41	9	14	7	1	1	161
June 2011	40	31	39	15	20	3	1	1	150
% change	-33.3	10.7	-4.9	66.7	42.9	-57.1	0.0	0.0	-6.8
Average annual % change over 3 years [a]									
12 mths end June 2008 to 12 mths end June 2011	-7.9	1.5	-6.0	12.9	5.8	-20.8	-	-	-3.0

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

Deaths from crashes involving articulated trucks by State/Territory and road user — 12 months ended June 2011

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Drivers [b]	23	15	21	8	12	3	1	1	84
Passengers [b]	8	9	12	1	3	0	0	0	33
Pedestrians	7	6	2	4	5	0	0	0	24
Motor cyclists [c]	2	0	2	1	0	0	0	0	5
Cyclists	0	1	2	1	0	0	0	0	4
All road users [d]	40	31	39	15	20	3	1	1	150

b Includes drivers/passengers of light and heavy vehicles

c Includes pillion passengers

d Includes road users not separately specified

Deaths from crashes involving articulated trucks by State/Territory and crash type — 12 months ended June 2011

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Pedestrian crashes	7	6	2	4	5	0	0	0	24
Other single vehicle crashes	7	2	6	1	0	0	0	0	16
Multiple vehicle crashes	26	23	31	10	15	3	1	1	110
All crash types	40	31	39	15	20	3	1	1	150

HEAVY RIGID TRUCKS - FATAL CRASHES

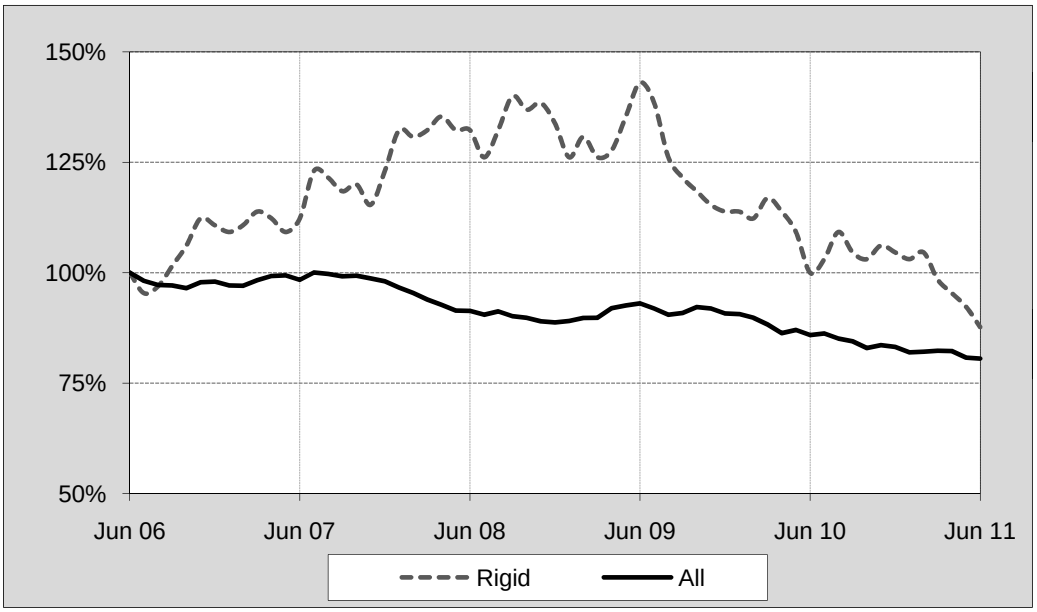
Fatal crashes involving heavy rigid trucks by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Calendar Years									
2005	26	28	10	3	7	2	1	1	78
2006	24	15	15	5	8	3	1	1	72
2007	28	24	10	5	10	1	1	1	80
2008	12	24	21	9	17	2	2	0	87
2009	23	18	13	2	16	1	1	0	74
2010	20	19	12	2	10	4	0	1	68
Quarters									
2009									
June	12	6	6	0	5	0	0	0	29
September	5	3	3	1	1	0	1	0	14
December	3	4	1	0	6	0	0	0	14
2010									
March	8	5	1	1	2	1	0	1	19
June	5	2	4	0	7	0	0	0	18
September	5	6	4	0	1	1	0	0	17
December	2	6	3	1	0	2	0	0	14
2011									
March	5	3	0	1	4	2	0	0	15
June	2	2	3	2	2	0	0	0	11
12 Months ended									
June 2010	21	14	9	2	16	1	1	1	65
June 2011	14	17	10	4	7	5	0	0	57
% change	-33.3	21.4	11.1	100.0	-56.3	400.0	-100.0	-100.0	-12.3
Average annual % change over 3 years [a]									
12 mths end June 2007 to 12 mths end June 2010	-14.6	-18.6	-13.0	-20.7	-16.8	51.2	-	-	-14.7

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 2011

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 2006.



HEAVY RIGID TRUCKS - DEATHS

Deaths from crashes involving heavy rigid trucks by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Calendar Years									
2005	28	33	13	3	7	2	1	1	88
2006	30	15	16	5	9	3	1	1	80
2007	29	26	11	5	10	1	2	1	85
2008	12	25	24	10	18	2	2	0	93
2009	24	19	13	2	18	1	1	0	78
2010	24	24	15	2	12	5	0	1	83
Quarters									
2009									
June	12	6	6	0	6	0	0	0	30
September	6	3	3	1	1	0	1	0	15
December	3	4	1	0	7	0	0	0	15
2010									
March	8	6	1	1	2	2	0	1	21
June	8	6	7	0	8	0	0	0	29
September	6	6	4	0	2	1	0	0	19
December	2	6	3	1	0	2	0	0	14
2011									
March	5	3	0	1	4	2	0	0	15
June	2	2	4	2	3	0	0	0	13
12 Months ended									
June 2010	25	19	12	2	18	2	1	1	80
June 2011	15	17	11	4	9	5	0	0	61
% change	-40.0	-10.5	-8.3	100.0	-50.0	150.0	-100.0	-100.0	-23.8
Average annual % change over 3 years [a]									
12 mths end June 2008 to 12 mths end June 2011	-11	-19	-14	-22	-12	62	-	-	-14

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

Deaths from crashes involving heavy rigid trucks by State/Territory by road user — 12 months ended June 2011

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Drivers [b]	9	8	4	2	3	4	0	0	30
Passengers [b]	2	3	1	0	4	0	0	0	10
Pedestrians	3	1	2	1	2	1	0	0	10
Motor cyclists [c]	1	4	4	1	0	0	0	0	10
Cyclists	0	1	0	0	0	0	0	0	1
All road users [d]	15	17	11	4	9	5	0	0	61

b Includes drivers/passengers of light vehicles

c Includes pillion passengers

d Includes road users not separately specified

Deaths from crashes involving heavy rigid trucks by State/Territory by crash type — 12 months ended June 2011

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Pedestrian crashes	3	1	2	1	2	1	0	0	10
Other single vehicle crashes	0	1	2	0	1	0	0	0	4
Multiple vehicle crashes	12	15	7	3	6	4	0	0	47
All crash types	15	17	11	4	9	5	0	0	61

BUSES - FATAL CRASHES

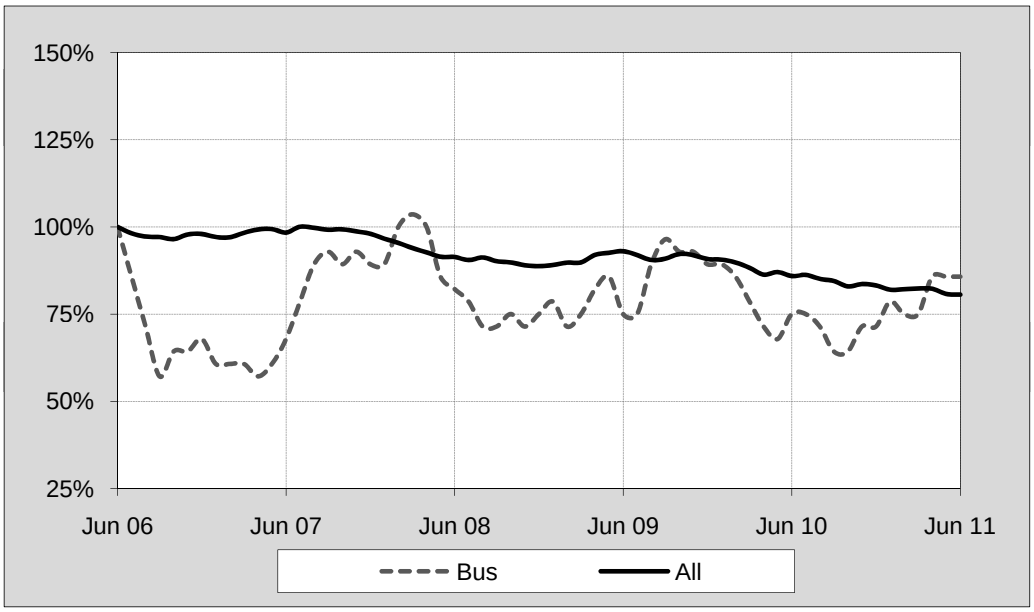
Fatal crashes involving buses by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Calendar Years									
2005	15	4	7	1	2	0	0	0	29
2006	7	3	5	1	1	1	1	0	19
2007	11	4	7	1	2	0	0	0	25
2008	5	4	8	1	3	0	0	0	21
2009	8	6	8	2	0	1	0	0	25
2010	9	2	3	3	0	1	1	1	20
Quarters									
2009									
June	1	1	2	0	0	0	0	0	4
September	5	3	3	0	0	0	0	0	11
December	2	0	0	0	0	1	0	0	3
2010									
March	2	1	0	0	0	1	0	0	4
June	2	0	1	0	0	0	0	0	3
September	3	1	1	1	0	0	1	1	8
December	2	0	1	2	0	0	0	0	5
2011									
March	2	1	2	0	0	0	0	0	5
June	1	1	3	0	1	0	0	0	6
12 Months ended									
June 2010	11	4	4	0	0	2	0	0	21
June 2011	8	3	7	3	1	0	1	1	24
% change	-27.3	-25.0	75.0	-	-	-100.0	-	-	14.3
Average annual % change over 3 years [a]									
12 mths end June 2007 to 12 mths end June 2010	6.8	-14.2	-3.4	-	-	-	-	-	1.3

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 2011

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 2006.



BUSES - DEATHS

Deaths from crashes involving buses by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Calendar Years									
2005	21	5	9	1	2	0	0	0	38
2006	7	3	5	1	1	1	1	0	19
2007	11	4	7	1	2	0	0	0	25
2008	5	4	9	1	3	0	0	0	22
2009	9	9	10	2	0	1	0	0	31
2010	9	2	4	3	0	1	1	1	21
Quarters									
2009									
June	1	4	3	0	0	0	0	0	8
September	6	3	4	0	0	0	0	0	13
December	2	0	0	0	0	1	0	0	3
2010									
March	2	1	0	0	0	1	0	0	4
June	2	0	2	0	0	0	0	0	4
September	3	1	1	1	0	0	1	1	8
December	2	0	1	2	0	0	0	0	5
2011									
March	2	1	3	0	0	0	0	0	6
June	1	1	3	0	1	0	0	0	6
12 Months ended									
June 2010	12	4	6	0	0	2	0	0	24
June 2011	8	3	8	3	1	0	1	1	25
% change	-33.3	-25.0	33.3	-	0.0	-100.0	-	-	4.2
Average annual % change over 3 years [a]									
12 mths end June 2008 to 12 mths end June 2011	7.7	-18.9	-1.1	-	-	-	-	-	0.8

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

Deaths from crashes involving buses by State/Territory by road user - 12 months ended June 2011

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Drivers [b]	2	0	3	2	0	0	0	1	8
Passengers [b]	0	3	2	0	1	0	0	0	6
Pedestrians	3	0	3	0	0	0	0	0	6
Motor cyclists [c]	2	0	0	1	0	0	1	0	4
Cyclists	1	0	0	0	0	0	0	0	1
All road users [d]	8	3	8	3	1	0	1	1	25

b Includes drivers/passengers of light vehicles

c Includes pillion passengers

d Includes road users not separately specified

Deaths from crashes involving buses by State/Territory by crash type - 12 months ended June 2011

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Pedestrian crashes	3	0	3	0	0	0	0	0	6
Other single vehicle crashes	0	2	2	0	1	0	0	0	5
Multiple vehicle crashes	5	1	3	3	0	0	1	1	14
All crash types	8	3	8	3	1	0	1	1	25

SUPPLEMENT – OCCASIONAL TABLES

VEHICLE OCCUPIED - DEATHS IN CRASHES INVOLVING A HEAVY TRUCK

The tables below classify deaths by the type of vehicle which was occupied or ridden, (or pedestrian) in which the deceased person was situated.

All crashes involve a heavy truck. Thus, for single vehicle crashes the killed person was an occupant of the truck. For multiple vehicle crashes, the data is separated into occupants of the heavy vehicle and those in / on a light vehicle.

Crashes involving articulated trucks are shown first, followed by crashes involving heavy rigid trucks. It should be noted that over the five years, approximately 20 crashes involved both types of truck. These are included in each table.

Deaths in crashes involving an articulated truck – Australia

Calendar year	Single Vehicle Crash	Multiple Vehicle Crash		Pedestrian Crash	Total
		Occupant of Light	Occupant of Heavy		
2006	15%	68%	5%	13%	**100%**
2007	21%	59%	8%	12%	**100%**
2008	17%	57%	13%	13%	**100%**
2009	21%	56%	9%	14%	**100%**
2010	10%	73%	7%	11%	**100%**

Deaths in crashes involving a Heavy Rigid truck – Australia

Calendar year	Single Vehicle Crash	Multiple Vehicle Crash		Pedestrian Crash	Total
		Occupant of Light	Occupant of Heavy		
2006	10%	71%	4%	15%	**100%**
2007	7%	69%	8%	15%	**100%**
2008	12%	65%	7%	16%	**100%**
2009	10%	62%	13%	15%	**100%**
2010	13%	71%	6%	10%	**100%**

Deaths in crashes involving any heavy truck – Australia

Calendar year	Single Vehicle Crash	Multiple Vehicle Crash		Pedestrian Crash	Total
		Occupant of Light	Occupant of Heavy		
2006	13%	69%	5%	14%	**100%**
2007	16%	63%	8%	13%	**100%**
2008	15%	61%	10%	15%	**100%**
2009	18%	58%	10%	14%	**100%**
2010	11%	72%	6%	11%	**100%**

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.

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.

Death — 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.

Gross Vehicle Mass (GVM) — Tare weight (i.e. unladen weight) of the motor vehicle plus its maximum carrying capacity excluding 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.

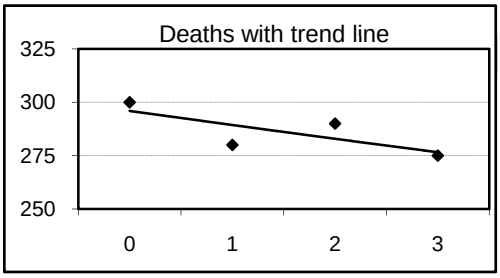
Preliminary data

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:

- Roads and Maritime Services, New South Wales
- 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/Info.aspx?NodeId=167

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