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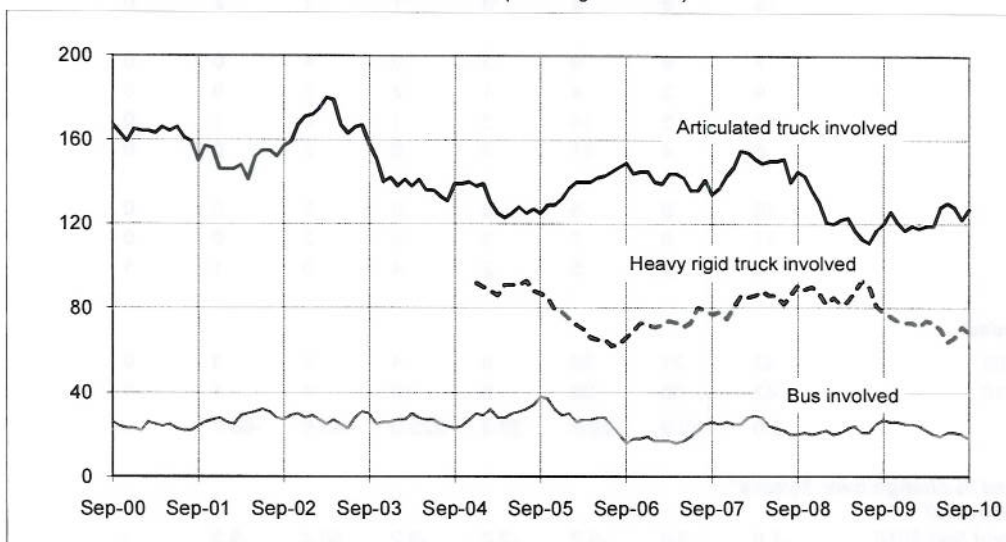
By: Mr Mike Mudrak

Date: 25 May 2011



Fatal crashes involving heavy vehicles, Australia — moving annual total

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



a Data unavailable prior to 2004.

Key features

- During the 12 months to the end of September 2010, 250 people died from 209 crashes involving heavy trucks or buses. These included:
 - 153 deaths from 127 crashes involving articulated trucks,
 - 84 deaths from 68 crashes involving heavy rigid trucks,
 - 19 deaths from 18 crashes involving buses ^b.
- Fatal crashes involving articulated trucks:
 - increased by six per cent compared with the corresponding period one year earlier,
 - decreased by an average of 3.4 per cent per year over the three years to September 2010.
- Fatal crashes involving heavy rigid trucks:
 - decreased by 13 per cent compared with the corresponding period one year earlier,
 - decreased by an average of 5.1 per cent per year over the three years to September 2010.

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

ARTICULATED TRUCKS — FATAL CRASHES

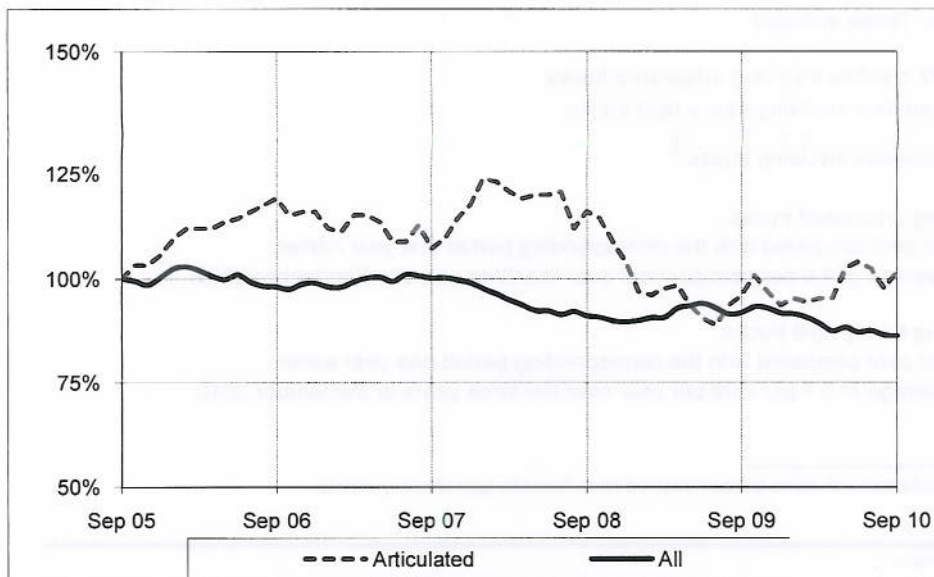
Fatal crashes involving articulated trucks by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Calendar Years									
2004	57	35	13	10	17	4	2	0	138
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	9	10	1	0	117
Quarters									
2008									
September	11	2	5	3	3	2	1	0	27
December	15	8	8	0	1	1	2	0	35
2009									
March	7	8	9	3	0	4	0	0	31
June	9	2	4	1	2	2	0	0	20
September	11	3	14	2	1	2	1	0	34
December	6	4	11	3	6	2	0	0	32
2010									
March	16	9	5	3	0	0	0	0	33
June	11	8	7	0	3	2	0	0	31
September	9	9	5	2	4	0	1	1	31
12 Months ended									
September 2009	42	21	35	6	4	9	3	0	120
September 2010	42	30	28	8	13	4	1	1	127
% change	0.0	42.9	-20.0	33.3	225.0	-55.6	-66.7	-	5.8
Average annual % change over 3 years^a									
12 mths end Sep 2007									
to 12 mths end Sep 2010	-7.8	3.0	-6.7	-2.0	-8.2	53.4	-9.3	-	-3.4

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 September 2010

Each point shows the number of fatal crashes in the preceding 12 months expressed as a percentage of the number of fatal crashes in the 12 months to the end of September 2005.



ARTICULATED TRUCKS - DEATHS

Deaths from crashes involving articulated trucks by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Calendar Years									
2004	64	37	13	13	18	4	2	0	151
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	11	11	1	0	141
Quarters									
2008									
September	13	2	7	4	3	2	1	0	32
December	15	8	11	0	1	1	2	0	38
2009									
March	8	9	9	4	0	4	0	0	34
June	9	3	5	1	2	2	0	0	22
September	14	4	15	3	1	3	1	0	41
December	16	4	11	3	8	2	0	0	44
2010									
March	19	9	6	3	0	0	0	0	37
June	13	10	9	0	3	2	0	0	37
September	11	10	5	2	5	0	1	1	35
12 Months ended									
September 2009	46	24	40	8	4	10	3	0	135
September 2010	59	33	31	8	16	4	1	1	153
% change	28.3	37.5	-22.5	0.0	300.0	-60.0	-66.7	-	13.3
Average annual % change over 3 years^a									
12 mths end Sep 2007									
to 12 mths end Sep 2010	-0.7	-8.7	-6.1	-7.3	-11.8	25.9	-9.3	-	-4.2

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 September 2010

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Drivers ^b	30	19	16	6	10	2	1	1	85
Passengers ^b	20	5	10	0	2	2	0	0	39
Pedestrians	6	4	3	1	4	0	0	0	18
Motor cyclists ^c	2	2	1	0	0	0	0	0	5
Cyclists	1	3	1	1	0	0	0	0	6
All road users ^d	59	33	31	8	16	4	1	1	153

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 September 2010

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Pedestrian crashes	6	4	3	1	4	0	0	0	18
Other single vehicle crashes	5	4	3	1	1	1	0	0	15
Multiple vehicle crashes	48	25	25	6	11	3	1	1	120
All crash types	59	33	31	8	16	4	1	1	153

HEAVY RIGID TRUCKS - FATAL CRASHES

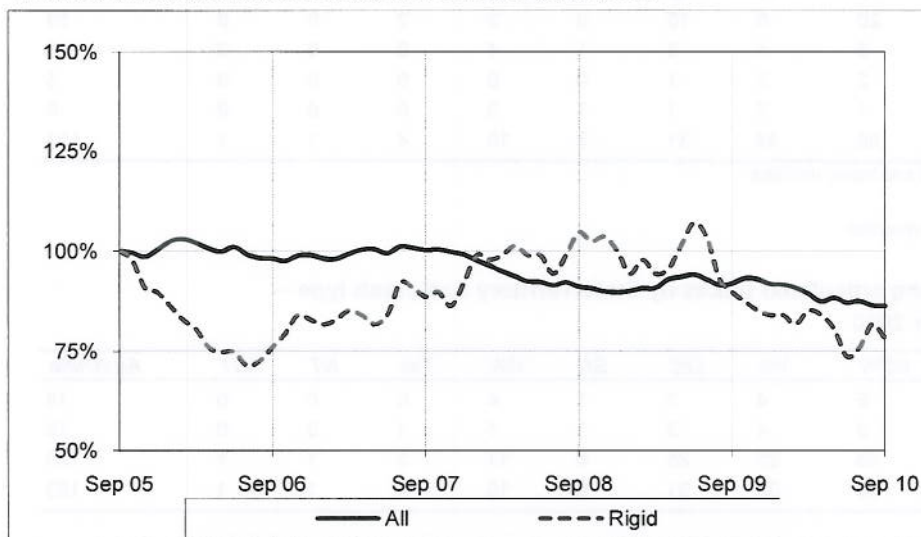
Fatal crashes involving heavy rigid trucks by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Calendar Years									
2004	30	25	19	7	7	4	0	0	92
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	0	0	73
Quarters									
2008									
September	6	4	8	2	8	0	0	0	28
December	2	5	4	3	3	1	1	0	19
2009									
March	3	5	3	1	4	1	0	0	17
June	12	6	6	0	5	0	0	0	29
September	5	3	3	1	1	0	0	0	13
December	3	4	1	0	6	0	0	0	14
2010									
March	8	5	1	1	2	1	0	0	18
June	5	2	4	0	7	0	1	0	19
September	6	5	4	0	1	1	0	0	17
12 Months ended									
September 2009	22	19	16	5	13	2	1	0	78
September 2010	22	16	10	1	16	2	1	0	68
% change	0.0	-15.8	-37.5	-80.0	23.1	0.0	0.0	-	-12.8
Average annual % change over 3 years^a									
12 mths end Sep 2007									
to 12 mths end Sep 2010	-5.5	-5.2	-8.7	-39.4	8.9	7.2	0.0	-	-5.1

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 September 2010

Each point shows the number of fatal crashes in the preceding 12 months expressed as a percentage of the number of fatal crashes in the 12 months to the end of September 2005.



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									
2004	38	30	22	7	7	4	0	0	108
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	0	0	77
Quarters									
2008									
September	6	4	9	3	8	0	0	0	30
December	2	5	4	3	3	1	1	0	19
2009									
March	3	6	3	1	4	1	0	0	18
June	12	6	6	0	6	0	0	0	30
September	6	3	3	1	1	0	0	0	14
December	3	4	1	0	7	0	0	0	15
2010									
March	8	6	1	1	2	2	0	0	20
June	8	6	7	0	8	0	1	0	30
September	7	5	4	0	2	1	0	0	19
12 Months ended									
September 2009	23	20	16	5	14	2	1	0	81
September 2010	26	21	13	1	19	3	1	0	84
% change	13.0	5.0	-18.8	-80.0	35.7	50.0	0.0	-	3.7
Average annual % change over 3 years^a									
12 mths end Sep 2007									
to 12 mths end Sep 2010	-3.3	0.9	-6.8	-40.3	14.9	21.0	-18.8	-	-1.9

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 September 2010

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Drivers ^b	13	9	3	1	12	1	1	0	40
Passengers ^b	6	6	5	0	6	0	0	0	23
Pedestrians	4	2	1	0	1	0	0	0	8
Motor cyclists ^c	1	2	3	0	0	2	0	0	8
Cyclists	2	2	1	0	0	0	0	0	5
All road users ^d	26	21	13	1	19	3	1	0	84

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 September 2010

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Pedestrian crashes	4	2	1	0	1	0	0	0	8
Other single vehicle crashes	1	3	1	0	4	0	0	0	9
Multiple vehicle crashes	21	16	11	1	14	3	1	0	67
All crash types	26	21	13	1	19	3	1	0	84

BUSES - FATAL CRASHES

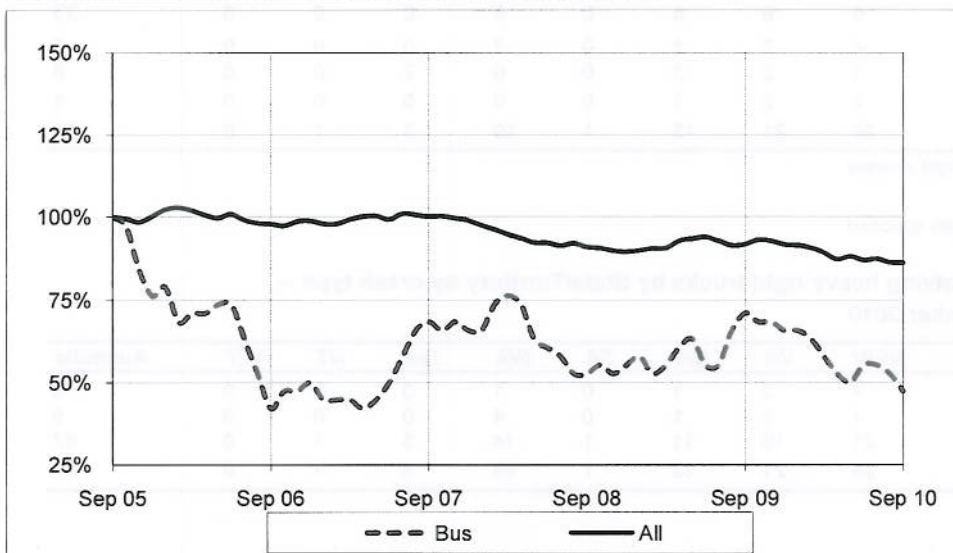
Fatal crashes involving buses by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Calendar Years									
2004	15	6	6	2	0	0	0	1	30
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
Quarters									
2008									
September	2	1	2	0	0	0	0	0	5
December	1	0	2	1	1	0	0	0	5
2009									
March	0	2	3	2	0	0	0	0	7
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
12 Months ended									
September 2009	7	6	10	3	1	0	0	0	27
September 2010	9	2	2	1	0	2	1	1	18
% change	28.6	-66.7	-80.0	-66.7	-100.0	-	-	-	-33.3
Average annual % change over 3 years ^a									
12 mths end Sep 2007									
to 12 mths end Sep 2010	-3.1	-20.9	-28.8	-	-	-	-	-	-7.7

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 September 2010

Each point shows the number of fatal crashes in the preceding 12 months expressed as a percentage of the number of fatal crashes in the 12 months to the end of September 2005.



BUSES - DEATHS

Deaths from crashes involving buses by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Calendar Years									
2004	15	6	6	2	0	0	0	1	30
2005	21	5	9	1	2	0	0	0	38
2006	7	3	5	1	1	1	2	0	20
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
Quarters									
2008									
September	2	1	2	0	0	0	0	0	5
December	1	0	2	1	1	0	0	0	5
2009									
March	0	2	3	2	0	0	0	0	7
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
12 Months ended									
September 2009	8	9	12	3	1	0	0	0	33
September 2010	9	2	3	1	0	2	1	1	19
% change	12.5	-77.8	-75.0	-66.7	-100.0	-	-	-	-42.4
Average annual % change over 3 years ^a									
12 mths end Sep 2007									
to 12 mths end Sep 2010	-1.8	-17.6	-19.2	-	-	-	-	-	-4.8

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 September 2010

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Drivers ^b	5	0	0	1	0	0	0	1	7
Passengers ^b	0	1	1	0	0	1	0	0	3
Pedestrians	3	0	0	0	0	0	0	0	3
Motor cyclists ^c	1	1	2	0	0	0	1	0	5
Cyclists	0	0	0	0	0	1	0	0	1
All road users ^d	9	2	3	1	0	2	1	1	19

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 September 2010

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	Australia
Pedestrian crashes	3	0	0	0	0	0	0	0	3
Other single vehicle crashes	1	1	1	0	0	0	0	0	3
Multiple vehicle crashes	5	1	2	1	0	2	1	1	13
All crash types	9	2	3	1	0	2	1	1	19

SUPPLEMENT — OCCASIONAL TABLES

Provided here on an occasional basis are selected further analyses of fatal heavy truck crashes. These tables and others like them may be reproduced from the online *Australian Road Deaths Database*^a.

1. Fatal Crashes involving Heavy Trucks by posted speed limit

YE Sep	≤ 50	60 – 80	≥ 90	Total ^b
2004	11	77	135	224
2005	11	73	123	210
2006	7	75	129	212
2007	17	64	123	206
2008	9	83	137	231
2009	15	64	110	190
2010	12	55	121	191

2. Fatal Crashes involving Heavy Trucks by Crashtype

YE Sep	Pedestrian	Single	Multiple	Total
2004	31	33	160	224
2005	24	35	151	210
2006	27	31	154	212
2007	30	34	142	206
2008	30	31	170	231
2009	30	38	122	190
2010	24	22	145	191

3. Crashtype (per cent) by Speed limit — last five years

	≤ 50	60 – 80	≥ 90	Total
Pedestrian	40%	20%	8%	14%
Single	5%	11%	19%	15%
Multiple	55%	70%	74%	71%
Total	100%	100%	100%	100%

^a Rigid truck data fatal crash is current to September 2010. Earlier tables giving vehicle-occupied data are not available using the Online Database.

^b Total includes crashes with unknown or unrecorded posted speed limit.

APPENDIX

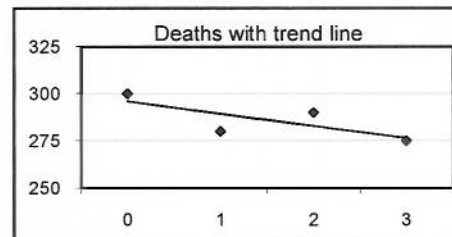
Glossary Note. The following definitions are general explanations only. The precise definitions vary across the organisations that provide the source data. These differences may result in minor inconsistencies between jurisdictions for some variables.

<i>Articulated truck</i>	A motor vehicle constructed 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
<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:

- Roads and Traffic Authority, 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>

Inquiries For further information about data in this bulletin, contact:

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