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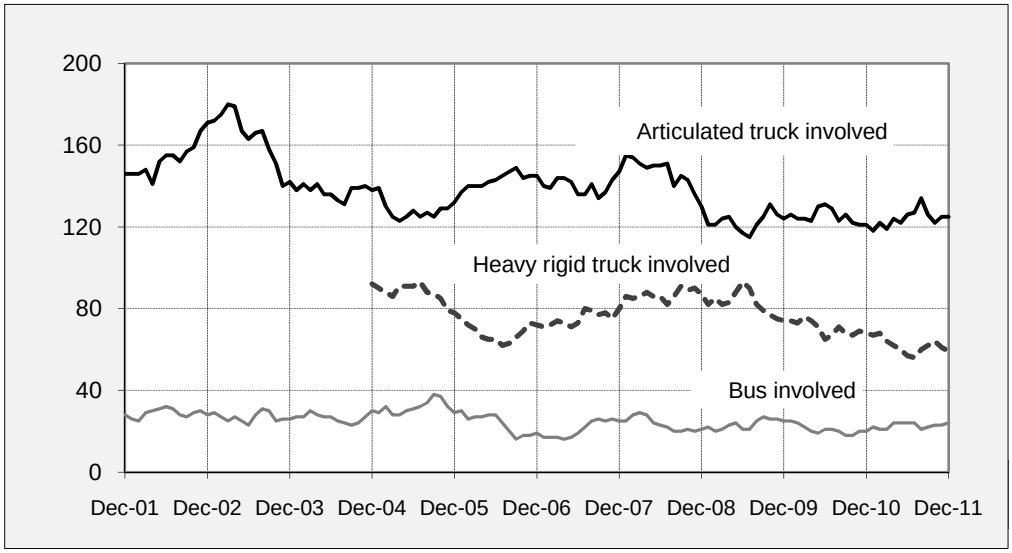
Australian Government
Department of Infrastructure and Transport
Bureau of Infrastructure, Transport and Regional Economics

bitre

Fatal heavy vehicle crashes Australia quarterly bulletin Oct – Dec 2011

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 December 2011, 233 people died from 204 fatal crashes involving heavy trucks or buses. These included:
  - 141 deaths from 125 crashes involving articulated trucks,
  - 71 deaths from 59 crashes involving heavy rigid trucks,
  - 25 deaths from 24 crashes involving buses [b].

- Fatal crashes involving articulated trucks:
  - increased by 3.3 per cent compared with the corresponding period one year earlier,
  - decreased by an average of 1.4 per cent per year over the three years to December 2011.

- Fatal crashes involving heavy rigid trucks:
  - decreased by 13.2 per cent compared with the corresponding period one year earlier,
  - decreased by an average of 11.7 per cent per year over the three years to December 2011.

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

ARTICULATED TRUCKS — FATAL CRASHES

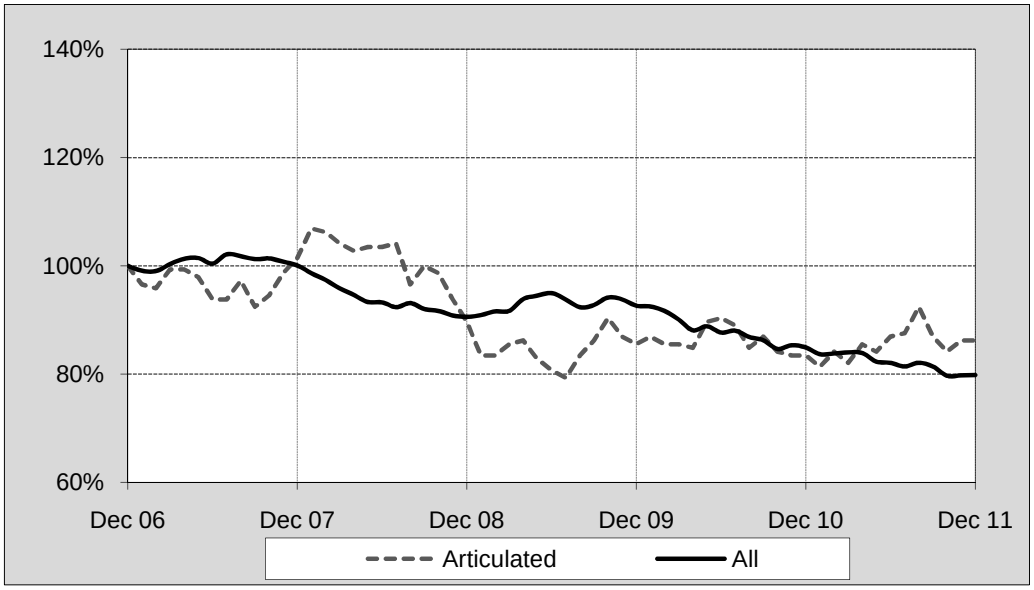
Fatal crashes involving articulated trucks by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Calendar Years									
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	31	25	7	12	3	1	1	121
2011	46	21	32	12	10	2	2	0	125
Quarters									
2009									
December	6	4	11	3	8	2	0	0	34
2010									
March	16	9	5	3	0	0	0	0	33
June	9	8	7	0	3	2	0	0	29
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	8	6	9	5	6	2	0	0	36
September	18	5	4	1	2	0	0	0	30
December	11	4	10	1	0	0	2	0	28
12 Months ended									
December 2010	41	31	25	7	12	3	1	1	121
December 2011	46	21	32	12	10	2	2	0	125
% change	12.2	-32.3	28.0	71.4	-16.7	-33.3	100.0	0.0	3.3
Average annual % change over 3 years [a]									
12 mths end Dec 2008 to 12 mths end Dec 2011	1.5	4.7	-6.6	6.3	6.1	-36.2	-17.4	-	-1.4

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 December 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 December 2006.



ARTICULATED TRUCKS - DEATHS

Deaths from crashes involving articulated trucks by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Calendar Years									
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	36	29	7	13	3	1	1	141
2011	50	23	39	13	12	2	2	0	141
Quarters									
2009									
December	16	4	11	3	10	2	0	0	46
2010									
March	19	9	6	3	0	0	0	0	37
June	11	10	9	0	3	2	0	0	35
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	9	7	13	6	7	2	0	0	44
September	20	5	4	1	2	0	0	0	32
December	12	5	10	1	0	0	2	0	30
12 Months ended									
December 2010	51	36	29	7	13	3	1	1	141
December 2011	50	23	39	13	12	2	2	0	141
% change	-2.0	-36.1	34.5	85.7	-7.7	-33.3	100.0	-100.0	0.0
Average annual % change over 3 years [a]									
12 mths end Dec 2008 to 12 mths end Dec 2011	-0.9	6.1	-7.8	3.4	4.1	-36.8	-17.4	-	-2.5

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 December 2011

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Drivers [b]	35	12	25	6	5	2	1	0	86
Passengers [b]	6	5	12	2	1	0	0	0	26
Pedestrians	8	4	1	2	5	0	1	0	21
Motor cyclists [c]	1	2	0	2	1	0	0	0	6
Cyclists	0	0	1	1	0	0	0	0	2
All road users [d]	50	23	39	13	12	2	2	0	141

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 December 2011

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Pedestrian crashes	8	4	1	2	5	0	1	0	21
Single vehicle crashes	5	4	10	1	0	0	0	0	20
Multiple vehicle crashes	37	15	28	10	7	2	1	0	100
All crash types	50	23	39	13	12	2	2	0	141

HEAVY RIGID TRUCKS - FATAL CRASHES

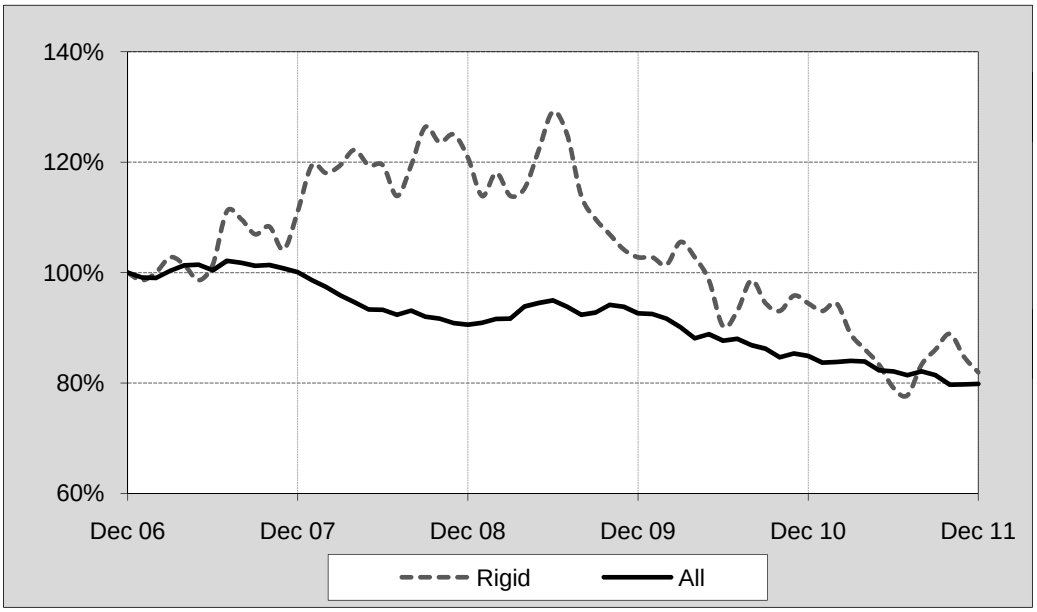
Fatal crashes involving heavy rigid trucks by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Calendar Years									
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
2011	15	14	12	6	8	2	2	0	59
Quarters									
2009									
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
September	3	6	7	3	1	0	2	0	22
December	5	3	2	0	1	0	0	0	11
12 Months ended									
December 2010	20	19	12	2	10	4	0	1	68
December 2011	15	14	12	6	8	2	2	0	59
% change	-25.0	-26.3	0.0	200.0	-20.0	-50.0	-	-100.0	-13.2
Average annual % change over 3 years [a]									
12 mths end Dec 2007 to 12 mths end Dec 2010	5.4	-14.5	-16.1	-11.5	-23.9	14.9	-	-	-11.7

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 December 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 December 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									
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
2011	17	20	13	6	9	2	4	0	71
Quarters									
2009									
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
September	4	6	7	3	1	0	4	0	25
December	6	9	2	0	1	0	0	0	18
12 Months ended									
December 2010	24	24	15	2	12	5	0	1	83
December 2011	17	20	13	6	9	2	4	0	71
% change	-29.2	-16.7	-13.3	200.0	-25.0	-60.0	-	-100.0	-14.5
Average annual % change over 3 years [a]									
12 mths end Dec 2008 to 12 mths end Dec 2011	11.0	-4.3	-15.6	-14.2	-22.0	17.5	-	-	-7.2

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 December 2011

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Drivers [b]	8	6	8	3	5	1	2	33	33
Passengers [b]	5	4	0	1	2	0	2	14	14
Pedestrians	4	4	2	1	2	1	0	14	14
Motor cyclists [c]	0	3	2	1	0	0	0	6	6
Cyclists	0	3	1	0	0	0	0	4	4
All road users [d]	17	20	13	6	9	2	4	0	71

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 December 2011

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Pedestrian crashes	4	4	2	1	2	1	0	0	14
Single vehicle crashes	3	0	0	0	3	0	1	0	7
Multiple vehicle crashes	10	16	11	5	4	1	3	0	50
All crash types	17	20	13	6	9	2	4	0	71

BUSES - FATAL CRASHES

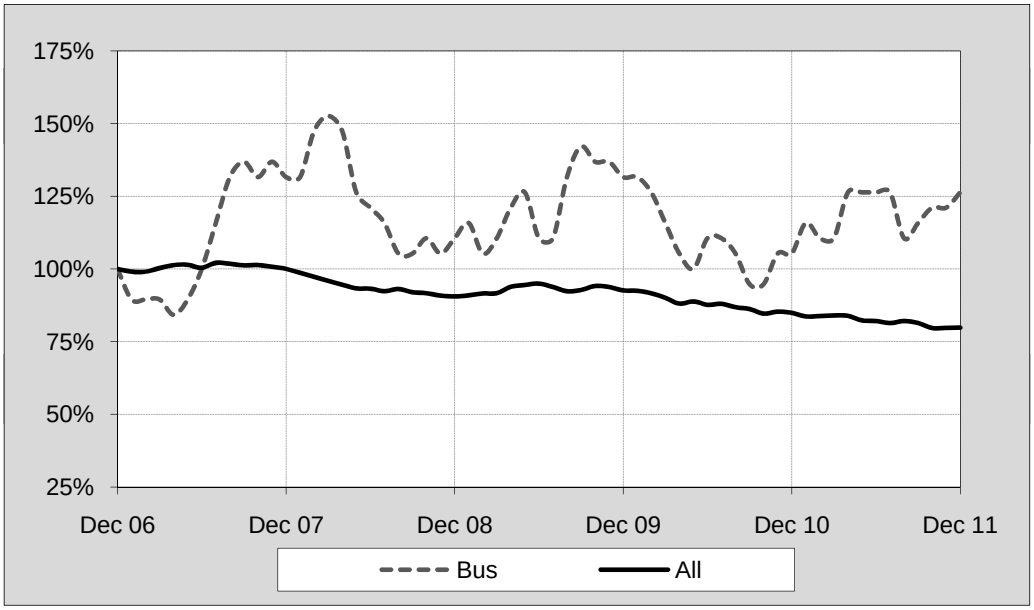
Fatal crashes involving buses by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Calendar Years									
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
2011	11	5	7	0	1	0	0	0	24
Quarters									
2009									
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
September	3	1	2	0	0	0	0	0	6
December	5	2	0	0	0	0	0	0	7
12 Months ended									
December 2010	9	2	3	3	0	1	1	1	20
December 2011	11	5	7	0	1	0	0	0	24
% change	22.2	150.0	133.3	-100.0	-	-100.0	-100.0	-100.0	20.0
Average annual % change over 3 years [a]									
12 mths end Dec 2007 to 12 mths end Dec 2010	28.2	-4.2	-12.9	-	-	-	-	-	1.8

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 December 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 December 2006.



BUSES - DEATHS

Deaths from crashes involving buses by State/Territory

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Calendar Years									
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
2011	11	5	8	0	1	0	0	0	25
Quarters									
2009									
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
September	3	1	2	0	0	0	0	0	6
December	5	2	0	0	0	0	0	0	7
12 Months ended									
December 2010	9	2	4	3	0	1	1	1	21
December 2011	11	5	8	0	1	0	0	0	25
% change	22.2	150.0	100.0	-100.0	-	-100.0	-100.0	-100.0	19.0
Average annual % change over 3 years [a]									
12 mths end Dec 2008 to 12 mths end Dec 2011	26.7	-8.0	-11.9	-	-	-	-	-	-0.1

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 December 2011

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Drivers [b]	1	0	2	0	0	0	0	0	3
Passengers [b]	1	2	1	0	1	0	0	0	5
Pedestrians	7	2	4	0	0	0	0	0	13
Motor cyclists [c]	0	1	1	0	0	0	0	0	2
Cyclists	2	0	0	0	0	0	0	0	2
All road users [d]	11	5	8	0	1	0	0	0	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 December 2011

	NSW	Vic	Qld	SA	WA	Tas	NT	ACT	**Australia**
Pedestrian crashes	7	2	4	0	0	0	0	0	13
Other single vehicle crashes	0	1	1	0	1	0	0	0	3
Multiple vehicle crashes	4	2	3	0	0	0	0	0	9
All crash types	11	5	8	0	1	0	0	0	25

SUPPLEMENT – OCCASIONAL TABLES

1. Posted Speed limit

A. Fatal crashes involving a heavy truck by posted speed limit

12 Months end December	*0 to 60*	*70 to 90*	*100*	*≥ 110*	*Total*
2007	51	40	90	38	221
2008	45	58	79	29	214
2009	30	35	82	36	186
2010	38	38	78	27	183
2011	35	47	69	29	181

B. Fatal crashes involving a bus by posted speed limit

12 Months end December	*0 to 60*	*70 to 90*	*100*	*≥ 110*	*Total*
2007	13	6	5	1	25
2008	11	6	2	1	21
2009	13	8	3	1	25
2010	11	5	3	0	20
2011	19	1	4	0	24

2. Ages of killed

A. Fatalities in crashes involving a heavy truck by age

12 Months end December	**0 to 16**	**17 to 25**	**26 to 39**	**40 to 59**	**≥ 60**	*Total*
2007	17	45	71	81	47	261
2008	13	49	55	77	47	241
2009	15	32	44	75	48	214
2010	14	38	40	71	53	216
2011	7	40	37	82	43	209

B. Fatalities in crashes involving a bus by age

12 Months end December	**0 to 16**	**17 to 25**	**26 to 39**	**40 to 59**	**≥ 60**	*Total*
2007	1	2	7	7	8	25
2008	2	6	5	5	4	22
2009	5	9	2	9	6	31
2010	0	4	9	4	4	21
2011	2	3	7	6	7	25

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.

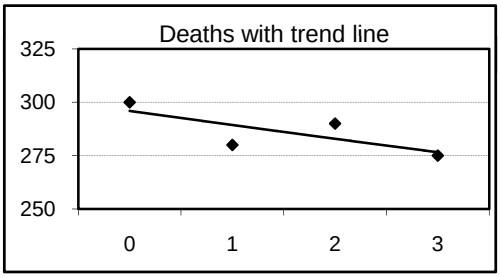
Preliminary data

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/statistics/safety/fatal_road_crash_database.aspx >

Inquiries

For further information about data in this bulletin, contact:

Infrastructure, Surface Transport & Road Safety Statistics
Bureau of Infrastructure, Transport and Regional Economics
Department of Infrastructure and Transport
GPO Box 501 Canberra ACT 2601
Email: roadsafety@infrastructure.gov.au
Internet: < http://www.bitre.gov.au/ >