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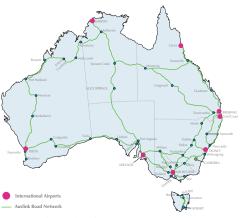
about this booklet

Australian Transport Statistics provides an easy introduction to a diverse range of transport statistics. Topics include employment, GDP, passenger and freight movements, trade, funding, motor vehicles, fatalities and estimated greenhouse gas emissions attributed to the transport industry. Various international comparisons are included and details provided for the road, rail, marine and aviation sectors. Data are gathered from various sources both within the Bureau of Transport and Regional Economics and external organisations.

contents

na	aps	
	auslink national road network and international airports	
	major railways and sea ports	
ıt	a glance	
ak	ples .	
	transport and storage GDP-2000-01 to 2004-05	
	employment in transport and storage 2001–01 to 2004–05	
	total domestic freight and passenger task 2003–04	
	total international freight task 2004–05	1
	total international passenger task 2004–05	1
	Australian international transport trade by region, 2004–05	1
	funding in new fixed assets in transport 2003–04	
	motor vehicle statistics 2003–04	
	roads open for general use at 2003–04	
	government funding of road-related expenditure	
	summary rail statistics	
	summary aviation statistics	
	short term international air travellers 2004–05	
	aircraft registered in Australia at 8 January 2006	
	summary maritime statistics	
	summary of Australian shipping activity	
	top 10 Australian ports, by weight and value 2003–04	
	teus exchanged at Australian capital city ports	
	OECD road fatalities per 100 000 population, 2003	
	Australian transport fatality statistics—1994–2005	
	estimated greenhouse gas emissions—co2 equivalent—transport mode—2004	2
	abbreviations	- 2

auslink national road network and major international airports



major railways and sea ports



at a glance

- Transport specific businesses contributed 4.5% of total GDP in 2004–05 (Table 1; excludes transport activity performed by other businesses). This amounted to \$38.7 billion in 2003–04 constant prices.
- The transport sector provided 454 000 jobs, or 4.6% of total employment in 2004–05 (Table 2).
- About 1 696 million tonnes of freight are transported around Australia by road each year (Table 3).
- Australians drive an estimated 199 billion kilometres each year (Table 8).
- Australia has the 11th lowest road fatalities in the OECD at 8.2 fatalities per 100 000 population in 2003. Sweden has the lowest at 5.9 fatalities per 100 000 population (Table 19).
- The number of road fatalities increased by 3.3% in 2005 (Table 20).
- Transport accounted for 13.5%, or 76 Mt, of national greenhouse gas emissions in 2004 (Table 21).

table 1 transport & storage GDP—2000–01 to 2004–05

(\$ million 2003-04 constant prices)

Indicator	2000-01	2001-02	2002-03	2003-04	2004-05
T&S GDP ^(a)	31 777	33 029	35 256	36 783	38 682
 Road 	10 613	11 262	12 019	12 845	13 691
Rail, pipelines and other transport	4 530	4 828	5 303	5 498	5 488
• Air	4 457	4 205	4 742	5 139	5 661
Services and storage (b)	12 182	12 723	13 177	13 298	13 842
T&S GDP per capita	1 563	1 625	1 734	1 809	1 903
T&S % of national GDP	4.2%	4.2%	4.4%	4.4%	4.5%

Notes: (a) T&S GDP relates to transport-specific businesses, excluding other transport archity performed by other businesses, and the value of non-commercial transport architises. (b) Services and Storage includes water transport

Sources: ABS, Australian national accounts, National income and expenditure (5206.14). Time series data (quarterly) 1959–2005.

table 2 employment in transport and storage 2000-01 to 2004-05(a) ('000)

Mode	2000-01	2001-02	2002-03	2003-04	2004-05
Road	213	221	218	231	215
Rail	37	32	36	39	37
Air & space	53	51	46	45	47
Water (sea)	13	14	13	13	14
Other transport	1	1	1	1	1
Services to transport	68	69	66	69	77
Storage	30	24	27	30	44
Transport & storage nfd(b)	3	2	2	5	21
Total employment—T&S(c)	419	413	408	433	454
Total employment—all industries	9 057	9 168	9 395	9 560	9 845

Notes: (a) Annual average of quarterly data. (b) Not further defined. Insufficient detail collected from survey respondent to allocate them to a specific industry code.

⁽c) Components may not sum to totals due to rounding.

Source: ABS, Year Book Australia 2006 (1301.0).

table 3 total domestic freight and passenger task 2003-04

	Road	Rail	Air (a)	Sea ^(b)	Total ^(c)
Tonnes carried ('000)	1 696 000	594 700	n/a	53 194	2 343 894
Tkm (million)	157 668	168 100	n/a	117 500	443 268
Av. distance (km)	93	n/a	n/a	2 209	n/a
Passengers ('000)	n/a	598 200	35 482	20 103	n/a

Notes: (a) Domestic air freight not available. Passenger number includes scheduled activity only (domestic and regional). (b) Includes urban public transport ferry services.

⁽b) Includes urban public transport terry serv(c) Total does not include air freight.

Sources: ABS, Survey of motor vehicle use Australia 2005 (920R.0); BTRE, Aviation statistics database, unpublished; ARA, BTRE, Coastal freight database, unpublished, Australian Rail The 2004 Productivity Report.

table 4 total international freight task 2004–05

	Air	Sea	Total ^(a)
Total trade (\$ billion)	70.2	215,3	285.6
Loaded (\$ billion)	25.1	106.3	131.4
Discharged (\$ billion)	45.1	108.9	154.1
Total trade ('000 tonnes)	687	680 573	681 261
Loaded ('000 tonnes)	285	610 640	610 925
Discharged ('000 tonnes)	402	69 933	70 335
Total trade task (million tkm)	5 897	6 006 901	6 012 804
Loaded (million tkm)	1 943	5 346 214	5 348 157
Discharged (million tkm)	3 955	660 687	664 642
Av. distance (km)	8 581	8 826	8 826

Note: (a) Includes cargo moved by postal services, which may not be included in air or sea total. Source: ABS, International Cargo Statistics, unpublished.

table 5 total international passenger task 2004–05

	Air	Sea ^(a)	Total
Passengers carried ('000)	20 310	221	20 531
Incoming passengers ('000)	10 197	109	10 306
Outgoing passengers ('000)	10 112	112	10 224

Note: (a) Persons clearing customs (inwards and outwards). Persons may be included at more than one port with cruise ships. Sources: BTRE, Aviation statistics database, unpublished; ACS, Custom figures, Issue 40, Sept 2005, Section 2.3.

table 6 Australian international transport trade by region, 2004–05

Region	Imports (\$million)	Exports (\$million)	Imports (million tonnes)	Exports (million tonnes)
Africa	1 704	2 621	1.596	6.173
Asia	72 824	71 298	41.469	484.284
Europe	38 329	17 165	4.738	53.242
India	1 526	7 171	0.549	23.768
Latin & South America	1 446	1 199	1.055	8.517
Middle East	3 505	5 645	7.703	12.204
North America	26 051	13 665	6.831	12.894
Pacific	7 586	12 010	6.128	8.149
Other	1 166	670	0.151	1.618
Confidential items	43	0	0.033	0.000
Total	154 179	131 442	70.252	610.848

Source: ABS, International Cargo Statistics, unpublished.

table 7 funding in new fixed assets in transport 2003–04(a) (\$m)

Source	Road	Rail	Air	Water	Pipes	Other	Service ^(b)	Total
Federal	1 007 ^(c)	_	11	_	_	18	_	1 036
State	1 295	2 057	-52	425	103	408	_	4 236
Local	1 375	_	2	-	-	33	-	1 410
Total Govt	3 677	2 057	-39	425	103	459	_	6 682
GBE	11	-	-	-	_	-	817	828
Private	1 350	361	549 ^(d)	52	-	268	1 194	3 774
Total	5 038	2 418	510	477	103	727	2 011	11 284

Notes: (a) Expenditure for new fixed assets & imported secondhand assets. Excludes repair & maintenance, operating costs and expenditure on domestic secondhand assets.

Based on Treasury records. Includes buildings, construction works, equipment, vehicles, computers & land. The entries in this table give the funding of new fixed assets.

(c) Australian Government road expenditure of \$1 007m equals sum of grants used on capital works an (d) Data incomplete

Sources: ABS Government Finance Statistics, (unpublished figures 2005); DOTARS personal communication, 2005.

less any asset sales by the investor. An entry in the table can be positive, zero or negative.

(b) Service includes: parking, terminals, ports, airports, stevedones, travel agents, custom brokers, and freight brokers and forwarders.

(c) Australian Covernment road expenditure of \$1 f00m enuals sum of grants used on capital works and should be regarded as a minimum figure.

table 8 motor vehicle statistics (a) 2003-04

	Cars	Motor cycles	Light com'l ^(b)	Freight trucks	Other trucks	Buses	Total
Vehicles ('000)	10 655	393	1 940	425	18	62	13 491
Vehicle-km (mil)	147 728	1 478	34 007	13 652	221	1 968	199 055
T. of freight carried (mil)	=.	_	120	1 576	_	_	1 696
Tkm (mil)	=.	=.	6 634	151 034	_	_	157 668
New vehicles(c)	586 740	n/a	n/a	n/a	359 072	n/a	945 812

Notes: (a) 12 months ending 31 October 2004. Components may not sum to totals due to rounding.

(b) Light com'l refers to light commercial vehicles. Tonnes and tonne-kilometres apply only to freight carrying vehicles. Sources: ABS, Survey of Motor Vehicle Use, Australia 2004, 2005, (9208.0); ABS, Sale of new motor vehicles, (9314.0).

table 9 roads open for general use at 30 June 04 ('000km)

State	NSW ^(a)	Vic ^(b)	Qld	SA	WA ^(c)	Tas ^(d)	NT ^(e)	ACT	Australia
Sealed	91.7	76.0	70.6	28.6	50.6	10.5	6.5	2.6	336.9
Other	90.4	76.7	110.7	68.0	97.9	14.2	15.6	0.1	473.7
Total	182.2	152.7	181.3	96.6	148.5	24.6	22.1	2.7	810.7

Notes: (a) Excludes Lord Howe Island, forestry and crown roads.

Source: ABS, Yearbook, Australia, 2005 (1301.0).

⁽b Includes VicRoad declared roads (June 2003) and unclassified roads (June 2002). Excludes 40 000 km of service roads administered by other authorities. (c) Excludes approximately 27 100 km of forestry roads.

 ⁽d) Includes approximately 27 100 km or forestry roa

⁽e) Excludes non NT government managed roads.

table 10 government funding of road-related expenditure(a) (\$m)

Source	2000-01 ^(b)	2001-02 ^(b)	2002-03 ^(b)	2003-04
Commonwealth	1 458	1 822	1 720	1 818
State	3 400	3 054	3 089	3 499
Local ^(c)	3 022	3 158	3 571	3 462
Total ^(d)	7 880	8 033	8 380	8 779

Notes: (a) Figures include road construction and maintenance and some administration and planning associated with those activities. The figures show for each level of government

all the expenditure from own sources at that level.

(c) Local government figures include funds donated to ic
 (d) Components may not sum to totals due to rounding.

Sources: ABS Government Finance Statistics, (unpublished figures 2005).

 ⁽b) Data for 2000-01 to 2002-03 revised.
 (c) Local government figures include funds donated to local government from the non public sector.

table 11 summary rail statistics (million)

	2001 ^(a)	2002 ^(a)	2003 ^(a)	2004 ^(b)
Australia's rail network				
Train Kilometres	156.1	170.7	175.7	n/a
Passenger train km	99.2	106.2	113.1	n/a
Train passenger journeys	514.8	510.1	507.7	598.2
Tram kilometres		n/a		
	2001 ^(b)	2002 ^(b)	2003 ^(b)	2004 ^(b)
Freight carried				
Million tonnes	508.0	535.1	544.6	594.7
Billion net tonne-km	134.2	137.7	158.1	168.1

Note: (a) Calendar year. (b) Financial year.

Sources: 2001 to 2008 ATSB, http: www.atsb.gov.au/publications/2004/rail_act_1.aspx. 2004 ARA; Australasian Rail The 2004 Productivity Report.

table 12 summary aviation statistics

Activity	International		Dome	estic ^(a)	Regional ^(b)	
	1994–95	2004–05	1994–95	2004–05	1994–95	2004–05
Aircraft movements	91 448	133 353	497 400	580 328	629 164	493 030
Hours flown ('000)	n/a	n/a	422	553	255	255
Km flown (mil)	n/a	n/a	249	334	84	86
Rev. pass-km (mil)	n/a	n/a	23 695	41 790	1 127	2 021
Revenue pass (mil)	11.6	20.3	22.1	34.6	3.6	4.9
Pass load factors (%)	66.9	69.7	75.0	78.4	57.4	65.0
Freight ('000 tonnes)	543.5	702.4	n/a	n/a	n/a	n/a

Notes: (a) Carried on scheduled passenger services. Domestic (Qantas, Jetstar and Virgin Blue) RPT services primarily between capital cities and major tourist centres. Regional RPT services primarily to regional centres.

(b) Includes estimates.

Sources: BTRE. Aviation statistics database, unpublished, http://www.btre.gov.au/avstats/index.htm.

table 13 short term international air travellers (a) 2004–05

Australians departing to		Visitors arriving from	
New Zealand	857 830	New Zealand	1 113 948
United Kingdom	428 667	United Kingdom	735 033
United States of America	409 244	Japan	710 353
Indonesia	346 119	United States of America	449 380
China	220 621	China	315 443
Fiji	189 708	Singapore	282 072
Thailand	188 846	Korea (South)	249 020
Singapore	182 760	Malaysia	182 816
Hong Kong	182 408	Hong Kong	160 852
Malaysia	157 877	Germany	146 656
Other	1 575 857	Other	1 373 967

Note: (a) The country represents the ultimate destination/origin rather than the next/previous country, e.g. a short stopover en route is excluded. Source: ABS, Overseas arrivals and departures, (3401).

table 14 aircraft registered(a) in Australia at 8 January 2006

		Aero	plane		Helio	copter	Balloon	Gli	der ^(b)
Engines	1	2	3	4	1	2	0	0	1
Reciprocating	7 532	1 267	5	2	816	-	-	-	5
Rotary	1	_	_	_	-	-	-	-	140
Turbofan	3	251	10	59	-	-	-	-	_
Turbojet	36	13	_	-	-	-	-	-	-
Turboprop	253	355	-	_	-	-	-	-	-
Turboshaft	-	_	-	_	376	101	-	-	-
Nil engine	-	-	-	-	-	-	335	967	-
Total aircraft	7 825	1 886	15	61	1 192	101	335	967	145

Notes: (a) Includes amateur built aircraft. Total aircraft registered: 12527. (b) Includes 145 power gliders.

Source: Civil Aviation Safety Authority, Aircraft Register, Australia.

table 15 summary maritime statistics(a)

	Inter	national	Don	Domestic	
Indicator	1994–95	2003-04	1994–95	2003-04	
Total trade (\$ billion)	108	182	n/a	n/a	
Loaded (\$ billion)	53	89	n/a	n/a	
Discharged (\$ billion)	55	94	n/a	n/a	
Total trade (million tonnes)	408	622	100	108	
Loaded (million tonnes)	362	558	49	53	
Discharged (million tonnes)	46	64	50	55	
Estimated tonne-km (billion)	3 958	5 648	109	118	
Average km shipped	9 694	9 074	2 220	2 209	
Passengers carried ('000)	n/a	188 ^(b)	15 043	20 103 ^(c)	

Notes: (a) Components may not sum to totals due to rounding.

 ⁽b) Persons clearing customs (inwards and outwards) at ports.
 (c) Includes urban public transport ferry services.

Sources: ABS, International cargo statistics, unpublished; ACS, Quarterly statistical bulletin, Sep 2005; Apelbaum Consulting Group, Australian Transport Facts 2006, Tables 3.3-4; BTRE, Australian Sea freight, various issues.

table 16 summary of Australian shipping activity^(a)

Year	Number of ships entering Australia from overseas ^(b)	Number of voyages into Australia from overseas ^(b)	Number of ship calls at Australian ports ^(c)
1999-2000 ^(d)	3 184	9 983	22 041
2000-2001 ^(d)	3 164	9 739	21 857
2001-2002 ^(d)	3 140	8 826	21 418
2002-2003 ^(d)	3 139	8 937	22 825
2003-2004 ^(d)	3 359	9 261	23 568
2004–2005	3 529	9 987	25 484

Notes: (a) Standard visits, as defined by Lloyd's Maritime Information. A ship that sails to Australia 3 times and makes a total of 15 port calls in Australia in a year, counts as 1 ship, 3 vovages and 15 ship calls.

Source: Lloyd's Maritime Intelligence Unit, Shipping information database, unpublished.

⁽b) Excludes ships that do not leave the Australian coast.

Ship calls includes ships coasting around Australia.
 (d) Data revised.

table 17 top 10 Australian ports, by weight and value 2003-04

International only			Domestic & ir	estic & international		
Port	Weight Port (million T)		Value (\$ billions)	Port	Weight (million T)	
Dampier	100.6	Melbourne	49.0	Dampier	100.8	
Port Hedland	85.3	Sydney	41.2	Port Hedland	85.6	
Newcastle	80.3	Brisbane	20.3	Newcastle	82.1	
Hay Point	78.0	Fremantle	15.6	Hay Point	78.0	
Gladstone	45.7	Dampier	8.6	Gladstone	56.1	
Port Walcott	43.9	Adelaide	7.1	Port Walcott	43.9	
Fremantle	19.4	Newcastle	4.8	Melbourne	24.1	
Melbourne	18.6	Hay Point	4.5	Sydney	24.0	
Brisbane	18.5	Gladstone	3.8	Fremantle	22.7	
Sydney	18.0	Townsville	3.1	Brisbane	21.5	
Other	114.2	Other	24.7	Other	138.7	

Sources: ABS, International cargo statistics database, unpublished; BTRE, Coastal freight database, unpublished.

table 18 TEUs exchanged at Australian capital city ports ('000)

Port	2000-01	2001–02	2002-03	2003-04	2004-05
Brisbane	453	477	570	639	726
Sydney	989	1 009	1 161	1 270	1 376
Melbourne	1 317	1 421	1 594	1 718	1 910
Adelaide	133	145	148	169	171
Fremantle	354	382	431	457	467
All 5 ports	3 246	3 434	3 904	4 254	4 630

Source: BTRE, Waterline, various issues, http://www.btre.gov.au/docs/waterline/wline.aspx.

table 19 OECD road fatalities per 100 000 population, 2003

Country	Fatalities	Country F	atalities	Country	Fatalities
Sweden	5.9	Australia	8.2	USA	14.7
Norway	6.1	Ireland	8.4	Poland	14.8
UK	6.1	France	10.2	Portugal	14.8
Netherlands	6.3	Austria	11.5	Korea	15.0
Japan	7.0	New Zealand	11.5	Belgium	n/a
Finland	7.3	Luxembourg	11.8	Canada	n/a
Switzerland	7.5	Slovenia	12.1	Greece	n/a
Iceland	7.9	Spain	12.8	Italy	n/a
Denmark	8.0	Hungary	13.1	Slovakia	n/a
Germany	8.0	Czech Republic	14.2	Turkey	n/a
,		·		OECD media	n 9.3

 $Source: \quad ATSB, International \, road \, safety \, comparisons -- the \, 2003 \, report, 2005.$

table 20 Australian transport fatality statistics — 1994–2005

Year	Road	Rail	Marine	Aviation	Total
1994	1 928	43	58	51	2 080
1995	2 017	46	55	39	2 157
1996	1 970	30	60	43	2 103
1997	1 767	43	46	30	1 886
1998	1 755	43	46	48	1 892
1999	1 764	41	51	40	1 896
2000	1 817	38	42	37	1 934
2001	1 737	35	56	41	1 869
2002	1 715	30	38	24	1 807
2003	1 621	29	51	35	1 736
2004	1 583	29	53	22	1 687
2005	1 635	n/a	53	38	1 726

Sources: ATSB, National Maritime Safety Committee and Australian Maritime Safety Authority.

table 21 estimated greenhouse gas emissions— co_2 equivalent—transport mode—2004 (Gg)^(a)

Gas source	CO_2	CH₄	N_2O	Total	% Aust total
Road	66 291	533	1 295	68 119	12.1
Rail	1 645	2	15	1 661	0.3
Civil aviation	4 784	1	46	4 830	0.9
Domestic navigation	1 490	52	9	1 551	0.3
Other	43	0	0	43	0.0
All domestic transport	74 253	587	1 365	76 205	13.5
International bunkers					
Aviation	5 977.4	0.3	56.4	6 034.1	
Marine	2 791.0	2.9	23.9	2 817.8	

Notes: (a) CO, carbon dioxide; CH, methane; N,O nitrous oxide. Components may not sum to totals due to rounding. Source: Australian Greenhouse Office, National greenhouse gas inventory, 2004.

abbreviations used in tables

ABS	Australian Bureau of Statistics	n/a	not available
ACS	Australian Customs Service	NSW	New South Wales
ACT	Australian Capital Territory	NT	Northern Territory
ARA	Australian Railway Association Inc	Pass	Passengers
ATSB	Australian Transport Safety	Qld	Queensland
Bureau		reg'n	registrations
RPT	Regular Public Transport	Rev. pass-km	Revenue passenger kilometres
av	average	SA	South Australia
CPI	Consumer Price Index	T	Tonnes
GDP	Gross Domestic Product	T&S	Transport and Storage
Gg	Gigagram (or kilotonne)	Tas	Tasmania
km	kilometre	TEUs	20 Foot Equivalent Unit
light com'l	light commercial vehicle	tkm	tonne-kilometres
m or mil	million	Vic	Victoria
Mt	Mega Tonnes	WA	Western Australia
		_	nil or rounded to zero

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- · Container and Ship Movements Through Australian Ports: Working Paper 65







upcoming publications

- Information Sheet 26: Public Road-Related Expenditure and Revenue in Australia
- Waterline: October 2006
- Drivers of Economic Growth in the Greater Sydney Metropolitan Region: Working Paper 67







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