

13 december 2006

australian **mineral statistics**

september quarter 2006

abare  
[www.abareconomics.com](http://www.abareconomics.com)

abare

---

© Commonwealth of Australia 2006

This work is copyright. The *Copyright Act 1968* permits fair dealing for study, research, news reporting, criticism or review. Selected tables may be reproduced for such purposes provided acknowledgment of the source is included. Major extracts or the entire document may not be reproduced by any process without the written permission of the Executive Director, ABARE.

ISSN 1447-1159

ABARE 2006, *Australian Mineral Statistics*, september quarter 2006, Canberra, 13 December.

Australian Bureau of Agricultural and Resource Economics  
GPO Box 1563 Canberra 2601

Telephone +61 2 6272 2000 Facsimile +61 2 6272 2001  
Internet [www.abareconomics.com](http://www.abareconomics.com)

ABARE is a professionally independent government economic research agency.

ABARE project 1546

For further information on this publication, please write to ABARE, GPO Box 1563, Canberra 2601, or contact Andrew Dickson +61 2 6272 2031.

# contents

main features	1
<b>graphs</b>	
mine production - Australia	3
mineral resources exports	3
export unit returns	3
mineral resources prices	9
<b>tables</b>	
1 production summary	4
2 volume of mine production indexes	5
3 exports summary	5
4 mineral resources export unit returns	6
5 imports summary	7
6 private mineral exploration expenditure	7
7 mineral resources prices	8
8 aluminium	11
9 coal	12
10 copper	14
11 diamond and other gemstones	15
12 gold	16
13 iron	17
14 lead	18
15 manganese	19
16 nickel	20
17 petroleum	21
18 petroleum production, by basin	24
19 sales of petroleum products, by state marketing area	25
20 phosphate	26
21 salt	26
22 silver	27
23 tin	28
24 titanium	29
25 uranium	30
26 zinc	31

## data sources

The statistics in this publication are obtained from several sources, as follows.

- > The bulk of mine production data (other than petroleum) is obtained from companies, published company reports and ABARE estimates. Data are supplemented where necessary by information from state mines departments (or their equivalents).
- > Petroleum production and sales are based on data obtained from the Resources Division of the Australian Government Department of Industry, Tourism and Resources.
- > Smelter and refinery production data are provided by companies operating the major smelters and refineries.
- > Trade data are obtained from official ABS compiled statistics, supplemented by ABARE estimates where necessary.
- > Price information is from published sources.

The assistance of the organisations supplying data is gratefully acknowledged by ABARE.

### *note on mine production data*

In most instances, data refer to actual mine output. However, in a small number of cases, despatches or sales data are used as proxies for production.

Quantities of minerals produced are reported in terms of the product in which they leave each mine site. This includes various stages of ore dressing, processing and elementary smelting where these are carried out in an associated plant at, or near, the mine. The output is recorded as ore where no treatment is undertaken at the mine, or as a concentrate where ore dressing operations are carried out.

# definitions

## *definitions and explanations*

Small discrepancies in totals are generally due to the rounding of components.

A zero is used to denote nil or a negligible amount.

p denotes a preliminary figure.

s denotes an ABARE estimate.

## *common abbreviations and conversions*

kg	kilogram	2.20462 lb (pounds)
t	tonne	1000 kilograms
kt	kilotonne	1000 tonnes
Mt	megatonne	1 000 000 tonnes
mtu	metric ton unit	10 kilograms
c	metric carat	
L	litre	1.761 pints
kL	kilolitre	1000 litres
ML	megalitre	1 000 000 litres
Mm <sup>3</sup>	million cubic metres	1 000 000 cubic metres
bbL	barrel	159 litres
oz	troy ounce	0.031 kilograms
\$m	million dollars (Australian)	
fob	free on board	
for	free on rail	
fot	free on truck	
cif	cost, insurance and freight	

# main features

## *production*

Almost two-thirds of Australia's major minerals and energy commodities recorded production increases in the September quarter 2006 compared with the June quarter 2006.

Substantial increases in production of minerals and energy commodities occurred for crude oil (up 38 per cent), refinery LPG (29 per cent), uranium oxide (29 per cent), lead bullion (26 per cent) and refined nickel production (21 per cent).

Other significant increases occurred for mineral sands – rutile (up 92 per cent), leucoxene (35 per cent), synthetic rutile (26 per cent), zircon (16 per cent) and ilmenite (11 per cent).

Increases of 5-12 per cent were recorded for diamonds, manganese ore, automotive gasoline, refined zinc and aviation turbine fuel.

Minerals and energy commodities for which production fell significantly were refined lead (down 62 per cent), refined tin (35 per cent), refined gold (25 per cent), refined silver (23 per cent), tin mine (21 per cent), other petroleum refinery (16 per cent), blister copper (14 per cent), silver mine (14 per cent), salt (14 per cent) and refined copper (13 per cent),

## *exports*

Australia's export earnings from mineral resources rose by 3 per cent in the September quarter 2006 compared with the previous quarter – up by \$829 million to \$26.5 billion, another record level.

This stronger performance mainly reflected higher export prices and increased export volumes for over half of the minerals and energy commodities. Compared with the September quarter 2005, export earnings were 29 per cent higher.

The commodity that had the largest increase in export earnings in the September quarter 2006 was again crude oil, up \$951 million (69 per cent) to \$2330 million. This was mainly as a result of a large increase in export volume.

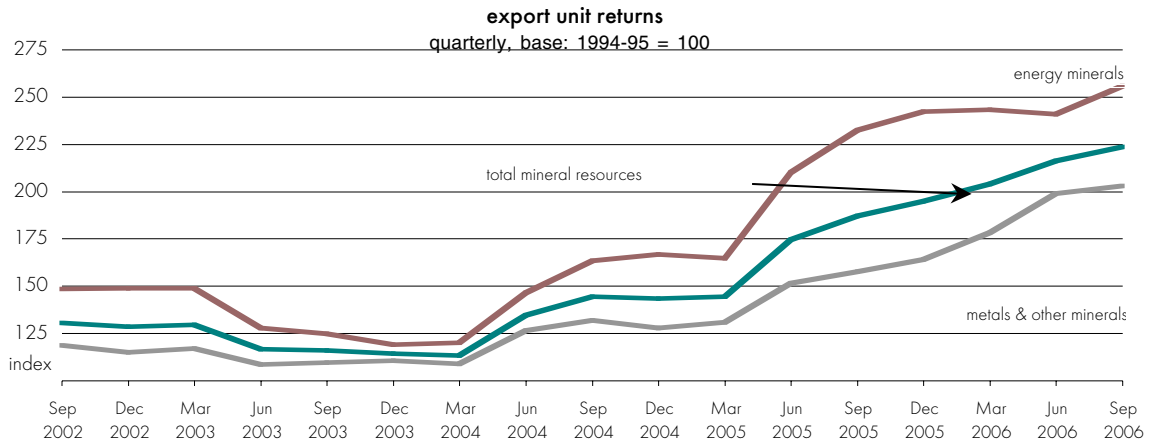
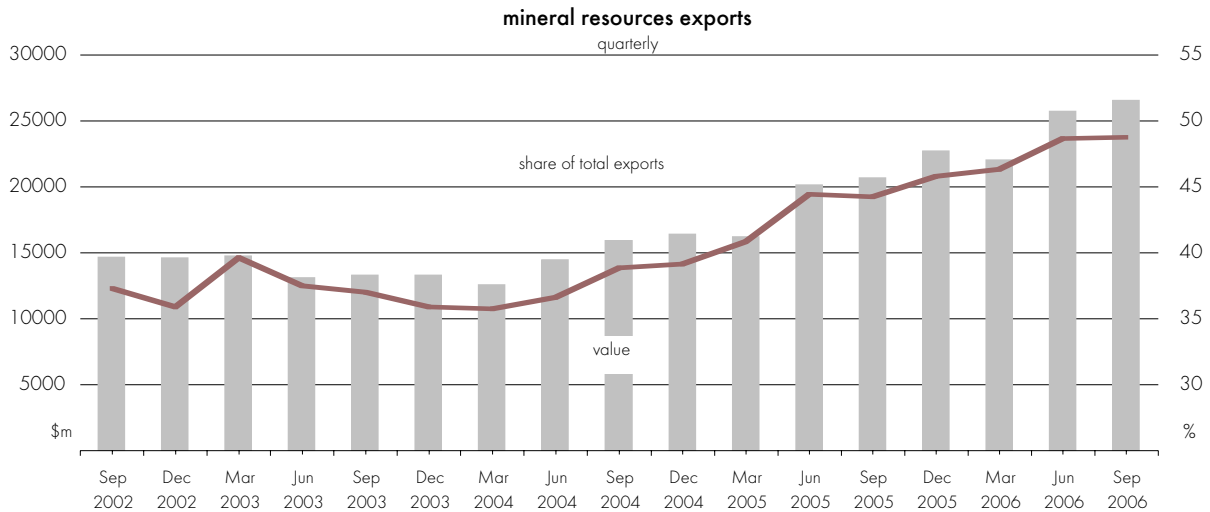
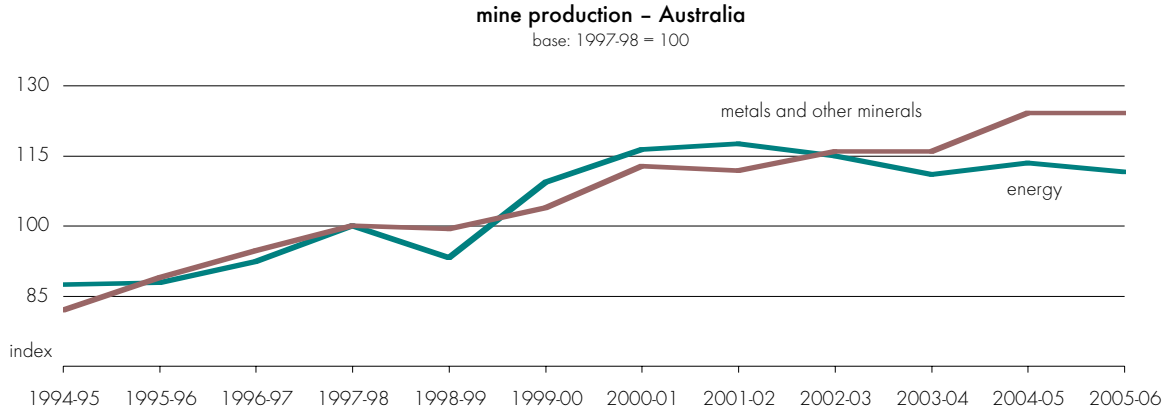
Other commodities that recorded significant increases in export earnings in the September quarter 2006 were: nickel, up \$664 million (62 per cent) to \$1733 million; iron ore, up \$404 million (11 per cent) to \$3944 million; petroleum refinery products, up \$126 million (63 per cent) to \$327 million; aluminium, up \$74 million (5 per cent) to \$1466 million; and LNG, up \$61 million (5 per cent) to \$1351 million.

There were also a few major commodities that recorded decreases in the September quarter 2006. These were: steaming coal, down \$142 million (8 per cent) to \$1703 million; copper, down \$142 million (8 per cent) to \$1690 million; coking coal, down \$68 million (2 per cent) to \$4063 million; lead, down \$59 million (17 per cent) to \$294 million; zinc, down \$58 million (6 per cent) to \$946 million; and gold, down \$48 million (2 per cent) to \$2411 million. Most of these commodities recorded falls in export volumes, while iron and steel also recorded a fall in export prices.

The index of export prices of Australian minerals resources (export unit returns) rose by 4 per cent in the September quarter 2006 compared with the previous quarter. Prices for energy minerals rose by 6 per cent while metals and related minerals prices rose by 2 per cent. The September quarter 2006 index of export prices was 20 per cent higher than the September quarter 2005 index. This mainly reflected significantly higher world prices for most commodities compared with a year ago.

Revised forecasts of minerals production, exports and prices for 2006-07, and analysis of key factors affecting the outlook for minerals and energy markets and the Australian industries, will be available in the next issue of *Australian Commodities*, to be released on 18 December 2006.

resource sector indicators



## production summary

	Unit	2004-05	2005-06 p	Quarter					
				2004-05	2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.
Bauxite	kt	57 648	60 874	14 347	14 848	16 021	14 636	15 370	15 986
Alumina	kt	17 161	17 826	4 462	4 433	4 470	4 432	4 492	4 588
Aluminium (ingot metal)	kt	1 890	1 912	475	485	482	469	476	489
Coal									
Black, raw	Mt	393	398	101	102	101	93	102	101
Black, salable	Mt	305	306	79	78	78	72	78	78
Brown <b>as</b>	Mt	71	71	na	na	na	na	na	na
Copper									
Mine <b>bs</b>	kt	905	920	230	231	245	214	230	219
Blister <b>c</b>	kt	434	404	100	106	100	99	100	86
Refined <b>s</b>	kt	479	461	111	121	115	113	113	98
Diamonds	'000 ct	32 471	25 354	9 474	6 048	6 523	5 244	7 539	8 394
Gold									
Mine <b>bs</b>	t	266	250	66	64	66	60	60	62
Refined	t	345	380	84	82	88	99	110	83
Iron									
Iron ore and concentrate <b>s</b>	kt	251 918	263 815	66 965	66 133	67 220	60 569	69 894	72 138
Iron and steel <b>s</b>	Mt	7 395	7 866	1 933	2 030	1 926	1 915	1 995	2 021
Lead									
Mine <b>bs</b>	kt	682	761	174	211	201	180	170	165
Bullion <b>c</b>	kt	153	141	41	42	37	34	27	34
Refined	kt	234	234	58	49	62	60	63	24
Manganese <b>s</b>	kt	3 563	4 081	979	1 035	982	933	1 131	1 254
Nickel									
Mine <b>bs</b>	kt	192	183	43	46	52	41	44	44
Intermediate	kt	115	99	29	27	28	20	24	24
Refined, class 1	kt	116	104	28	27	29	24	24	29
Refined, class 2	kt	10	7	3	2	2	2	1	2
Petroleum, field									
Crude oil and condensate <b>s</b>	ML	27 311	24 320	7 489	6 877	6 626	5 344	5 473	7 559
LPG (naturally occurring)	ML	4 628	4 722	1 171	1 300	1 158	1 056	1 208	1 291
Natural gas	Mm <sup>3</sup>	37 267	38 014	9 442	9 921	9 297	8 591	10 205	10 136
Petroleum, refinery									
LPG	ML	995	1 125	288	272	285	298	270	348
Automotive gasoline	ML	17 913	16 528	4 307	4 202	4 176	4 090	4 059	4 412
Aviation turbine fuel	ML	5 325	5 216	1 216	1 294	1 430	1 257	1 235	1 319
Automotive diesel oil	ML	12 822	10 154	3 017	2 919	2 664	2 345	2 226	2 304
Other	ML	3 659	3 252	1 067	838	756	845	813	683
Total	ML	40 202	36 274	9 894	9 524	9 311	8 834	8 605	9 066
Salt <b>s</b>	kt	12 254	11 763	3 265	2 830	2 983	2 851	3 100	2 680
Silver									
Mine <b>bs</b>	t	2 303	2 218	576	605	619	538	456	393
Refined	t	722	655	184	163	164	145	183	141
Tin									
Mine <b>bs</b>	t	2 055	1 805	823	1 012	233	230	330	262
Refined <b>s</b>	t	445	736	123	175	192	206	163	106
Titanium									
Ilmenite concentrate <b>s</b>	kt	1 993	2 172	502	541	497	559	575	636
Leucoxene concentrate	kt	68	79	15	20	17	12	30	41
Rutile concentrate <b>s</b>	kt	174	181	46	47	42	44	48	92
Synthetic rutile <b>s</b>	kt	751	713	195	195	178	184	156	196
Titanium dioxide pigment <b>s</b>	kt	204	208	50	52	53	53	51	49
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	t	10 964	9 974	2 590	2 924	2 922	2 486	1 642	2 116
Zinc									
Mine <b>bs</b>	kt	1 352	1 382	347	356	338	346	343	326
Refined	kt	464	446	108	117	115	101	113	121
Zircon concentrate	kt	432	440	110	107	107	111	114	132

**a** Quarterly data are not available. **b** Total metallic content of minerals produced. **c** Metallic content. **p** Preliminary. **s** ABARE estimate. **na** Not available.

Sources: Australian Bureau of Statistics, Canberra; Coal Services Pty Limited; Queensland Government, Department of Natural Resources and Mines; ABARE.

## 2 volume of mine production indexes <sup>a</sup>

	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06
Energy minerals	93.2	109.4	116.4	117.6	115.0	111.0	113.4	111.5
Metals and other minerals	99.4	103.9	112.7	111.8	115.8	115.9	124.1	124.1
Total minerals	95.8	106.9	114.8	115.1	115.5	113.5	118.9	117.9

<sup>a</sup> Uranium included with energy.

Note: ABARE revised the method for calculating production indexes in October 1999. The indexes are now calculated on a chained weight basis using Fishers' ideal index with a reference year of 1997-98 = 100.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

## 3 exports summary

	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
Bauxite	kt	4 900	5 639	1 165	1 401	1 524	1 253	1 462	1 363	
Alumina <sup>a</sup>	kt	14 073	14 499	3 722	3 470	3 832	3 575	3 622	3 716	
Aluminium (ingot metal)	kt	1 512	1 616	412	411	423	382	399	435	
Coal, black										
Metallurgical	Mt	124.92	120.48	33.30	29.99	30.42	29.60	30.46	32.77	
Thermal	Mt	106.40	110.82	26.61	28.64	26.12	26.78	29.29	27.32	
Copper <sup>bs</sup>	kt	701	791	191	181	235	194	181	174	
Diamonds <sup>cs</sup>	'000 ct	32 471	25 354	9 474	6 048	6 523	5 244	7 539	8 394	
Gold <sup>bs</sup>	t	309.24	315.14	78.46	79.19	72.71	69.94	93.30	92.82	
Iron										
Iron ore and pellets	kt	228 456	239 361	59 355	58 856	64 657	54 123	61 724	64 480	
Iron and steel	kt	2 338	2 428	562	570	570	620	668	633	
Lead <sup>bs</sup>	kt	782	756	194	179	243	154	179	156	
Manganese ore										
and concentrate	kt	3 128	3 215	914	466	854	640	1 255	1 086	
Nickel <sup>ds</sup>	kt	218	202	54	53	54	48	47	51	
Petroleum										
Crude oil and other refinery feedstock	ML	15 731	13 026	4 028	4 166	3 607	2 867	2 386	4 066	
LNG	Mt	10.59	12.50	2.65	2.93	2.98	2.99	3.60	3.45	
LPG	ML	2 844	2 800	659	985	556	602	656	734	
Refinery products	ML	1 847	2 082	338	435	583	758	306	507	
Salt	kt	12 128	10 776	3 223	2 567	2 651	2 638	2 920	2 391	
Tin <sup>b</sup>	t	1 529	1 556	797	947	241	55	313	217	
Titanium										
Ilmenite concentrate	kt	633	722	146	191	208	20	303	270	
Leucoxene concentrate	kt	93	86	34	27	29	2	28	28	
Rutile concentrate	kt	158	169	44	44	40	41	43	67	
Synthetic rutile <sup>s</sup>	kt	517	473	137	135	118	124	97	140	
Titanium dioxide pigment	kt	175	177	45	41	46	41	49	44	
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	t	11 249	10 253	2 062	3 100	3 353	2 040	1 760	1 856	
Zinc <sup>b</sup>	kt	1 427	1 329	349	297	402	295	335	309	
Zircon concentrate	kt	428	435	109	106	106	110	113	131	

continued

### 3 exports summary *continued*

	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
Bauxite	\$m	123	127	31	29	32	30	35	30	
Alumina <b>a</b>	\$m	4 383	5 262	1 196	1 135	1 304	1 329	1 494	1 470	
Aluminium (ingot metal)	\$m	3 726	4 783	1 017	1 003	1 162	1 226	1 392	1 466	
Coal, black										
Metallurgical	\$m	10 758	17 003	3 963	4 106	4 472	4 295	4 131	4 063	
Thermal	\$m	6 336	7 206	1 685	1 905	1 743	1 713	1 845	1 703	
Copper <b>e</b>	\$m	3 082	5 665	917	955	1 432	1 446	1 832	1 690	
Diamonds <b>cs</b>	\$m	658	523	193	124	134	109	157	175	
Gems, other than diamonds	\$m	61	59	19	17	11	20	11	14	
Gold, refined	\$m	5 523	7 112	1 380	1 445	1 541	1 666	2 459	2 411	
Iron										
Iron ore and pellets	\$m	8 120	12 849	2 929	3 001	3 413	2 895	3 540	3 944	
Iron and steel	\$m	2 031	1 674	460	403	410	414	446	421	
Lead <b>e</b>	\$m	1 041	1 295	274	257	394	291	353	294	
Manganese ore and concentrate	\$m	473	424	159	73	125	83	143	113	
Nickel <b>es</b>	\$m	3 731	3 548	984	885	793	801	1 069	1 733	
Petroleum										
Crude oil and other refinery feedstock	\$m	6 330	6 638	1 725	2 032	1 720	1 506	1 379	2 330	
LNG	\$m	3 199	4 416	869	966	1 099	1 060	1 290	1 351	
LPG	\$m	804	1 002	200	293	217	254	237	288	
Refinery products	\$m	844	1 195	172	258	318	418	201	327	
Salt	\$m	226	229	64	52	54	58	65	54	
Silver, refined	\$m	161	197	40	43	46	42	65	48	
Tin <b>e</b>	\$m	8	12	6	7	2	0	2	2	
Titanium										
Ilmenite concentrate	\$m	63	76	14	19	22	2	33	31	
Leucoxene concentrate	\$m	25	25	9	8	8	2	6	11	
Rutile concentrate	\$m	114	138	35	35	33	34	36	56	
Synthetic rutile <b>s</b>	\$m	306	321	90	89	80	85	67	97	
Titanium dioxide pigment	\$m	422	441	109	100	116	104	121	108	
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	\$m	475	546	92	154	178	99	115	125	
Zinc <b>e</b>	\$m	1 466	2 540	410	357	570	610	1 004	946	
Zircon concentrate	\$m	319	396	90	92	95	107	102	118	
Other mineral resources <b>f</b>	\$m	3 700	5 200	962	764	1 136	1 272	2 027	1 070	
Total mineral resources <b>g</b>	\$m	68 510	90 905	20 095	20 609	22 663	21 972	25 661	26 490	
Total merchandise	\$m	127 867	154 383	35 514	36 309	39 041	36 738	42 295	43 148	
<b>Total goods and services</b>	\$m	167 562	196 332	45 243	46 576	49 505	47 469	52 782	54 342	

**a** Includes aluminium hydroxide. **b** Metallic content of all ores, concentrates, intermediate products (where applicable) and refined metal. **c** Unsorted and sorted. **d** Includes metal content of ores and concentrates, intermediate products and nickel metal. **e** Value of all ores, concentrates, intermediate products (where applicable) and refined metal. **f** Derived as the difference between total mineral resources exports, below, and the sum of the above items. **g** Total mineral resource exports on an ABARE balance of payments basis. **p** Preliminary. **s** ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

### 4 mineral resources export unit returns **a**

	Quarter							
	2004-05			2005-06 p			2006-07	
	Dec.	Mar.	June	Sep.	Dec.	Mar.	June	Sep.
Energy minerals	166.7	164.5	210.1	232.5	242.3	243.3	240.9	255.7
Metals and other minerals	127.8	130.9	151.3	157.7	164.1	178.1	198.8	202.8
Total mineral resources	143.3	144.4	174.5	186.9	194.6	203.9	216.1	223.6

**a** Base: 1994-95 = 100. **p** Preliminary.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

## 5 imports summary

	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Quantity</b>										
Diamonds <b>a</b>	'000 ct	2 168	4 098	633	720	1 569	891	918	822	
Iron ore	kt	4 648	5 026	1 138	1 365	1 453	740	1 467	1 265	
Ingot steel	kt	2 116	2 191	637	566	564	532	530	617	
Ferroalloys	kt	60	57	15	14	16	12	15	38	
Petroleum										
Crude oil and other refinery feedstock	ML	26 054	24 424	6 263	5 741	5 989	6 680	6 013	5 932	
Refinery products	ML	11 188	15 134	3 288	2 831	3 563	3 793	4 946	4 179	
Phosphate rock	kt	797	655	242	147	239	71	198	123	
<b>Value</b>										
Diamonds <b>a</b>	\$m	347	403	87	94	106	98	106	91	
Gold <b>b</b>	\$m	2 462	4 800	740	765	732	1 358	1 946	1 163	
Iron ore	\$m	145	222	48	59	48	48	67	72	
Ingot steel	\$m	2 041	2 075	628	584	529	511	452	539	
Ferroalloys	\$m	137	123	47	39	30	22	31	28	
Petroleum										
Crude oil and other refinery feedstock	\$m	9 995	12 833	2 691	2 797	2 956	3 514	3 566	3 552	
Refinery products	\$m	5 123	8 773	1 693	1 665	2 003	2 214	2 892	2 162	
Phosphate rock	\$m	49	42	15	9	16	4	13	8	
Silver	\$m	30	33	1	7	2	9	14	28	
Other	\$m	544	637	140	179	120	155	183	239	
Total	\$m	20 872	29 942	6 090	6 197	6 542	7 933	9 270	7 884	

**a** Includes sorted and unsorted, gem and industrial diamonds, and diamond dust and powder. **b** Refined and unrefined bullion. **p** Preliminary.  
Sources: Australian Bureau of Statistics, Canberra; ABARE.

## 6 private mineral exploration expenditure

	Unit	2004-05	2005-06 p	Quarter					
				2004-05		2005-06 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Energy</b>									
Petroleum									
Onshore	\$m	270.1	355.8	52.5	68.8	79.8	98.6	82.0	95.4
Offshore	\$m	774.6	906.1	216.7	209.7	202.2	227.9	191.6	284.4
Total	\$m	1 044.7	1 261.9	269.2	278.5	282.0	326.5	273.6	379.8
Coal	\$m	126.8	166.4	29.8	37.6	32.2	46.0	41.5	46.7
Uranium	\$m	20.7	56.1	3.2	6.8	11.9	15.8	10.1	18.3
Total energy	\$m	1 192.2	1 484.4	302.2	322.9	326.1	388.3	325.2	444.8
<b>Metals and other minerals</b>									
Copper	\$m	71.4	139.5	15.2	22.4	31.5	36.7	24.6	46.7
Diamonds	\$m	23.7	22.6	3.6	5.6	6.3	7.3	4.4	4.6
Gold	\$m	391.7	399.6	81.9	103.1	100.0	99.1	90.0	110.5
Iron ore	\$m	137.9	161.3	27.3	45.7	36.3	42.9	32.4	49.7
Mineral sands	\$m	27.6	29.2	6.7	7.0	8.1	8.3	5.6	7.2
Nickel, cobalt	\$m	158.6	146.0	43.3	44.1	40.0	40.7	29.3	36.0
Silver, lead and zinc	\$m	31.3	71.2	7.0	8.6	13.1	17.8	14.8	25.5
Other	\$m	38.7	48.8	7.8	9.8	12.6	13.0	11.0	12.2
Total metals and other minerals	\$m	880.9	1 018.2	192.8	246.3	247.9	265.8	212.1	292.4
Total expenditure	\$m	2 073.1	2 502.6	495.0	569.2	574.0	654.1	537.3	737.2

Sources: Australian Bureau of Statistics, Canberra; ABARE.

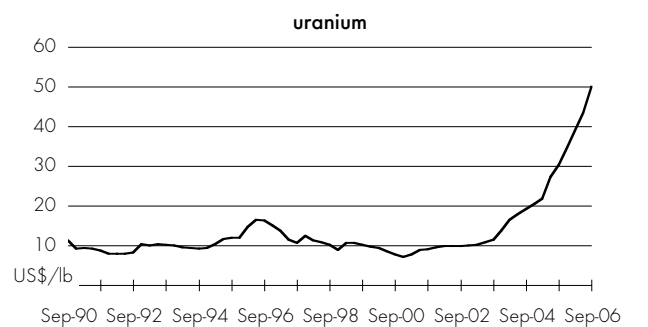
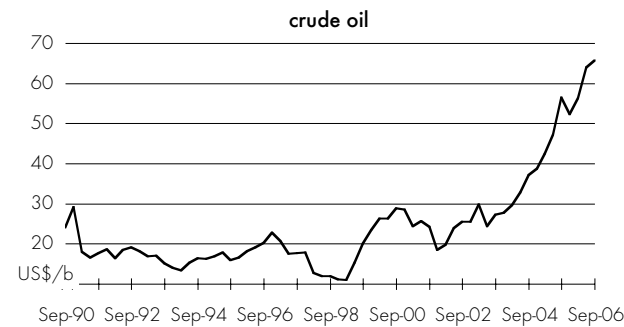
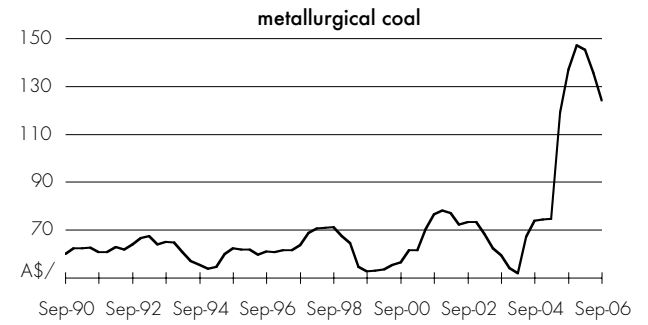
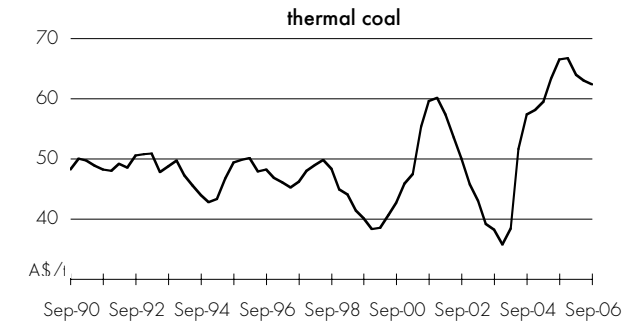
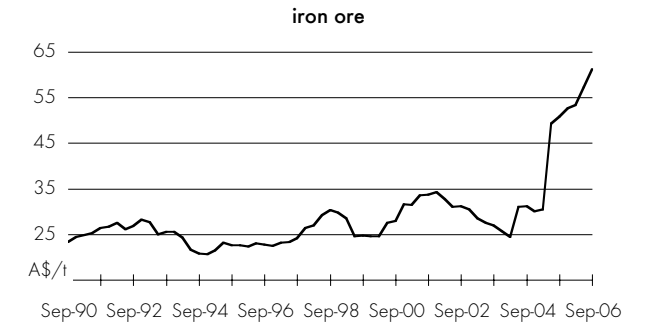
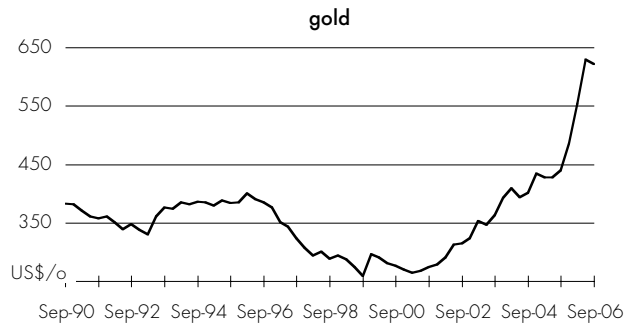
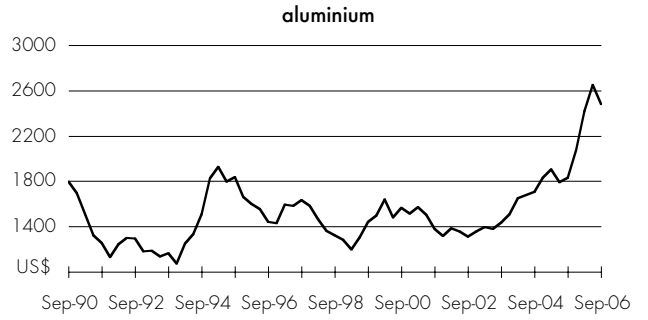
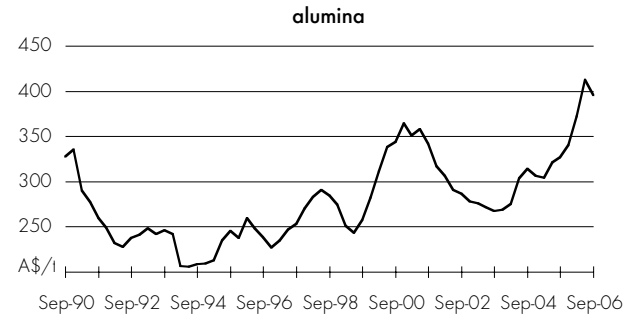
## 7 mineral resources prices

	alumina avg export unit value A\$/t	aluminium (high grade) LME cash US\$/t	gold London AM fix US\$/oz	iron ore a avg export unit value A\$/t	thermal coal avg export unit value A\$/t	metallurgical coal avg export unit value A\$/t	crude oil b world trade wtd ave US\$/bbl	uranium c Industry spot price US\$/lb
<b>2003-04</b>	278.60	1 568.40	389.28	27.09	40.98	58.26	29.33	14.90
<b>2004-05</b>	311.47	1 806.91	422.49	35.54	59.55	86.12	41.18	22.20
<b>2005-06</b>	362.90	2 243.62	526.95	53.68	65.02	141.13	57.25	36.79
<b>2005</b>								
April	326.45	1 894.29	429.14	46.99	62.47	110.77	47.12	24.00
May	323.37	1 746.57	422.90	49.73	62.83	119.06	44.90	29.00
June	313.65	1 731.30	430.30	50.93	64.82	127.32	49.36	29.00
July	332.53	1 778.79	424.75	52.31	67.36	136.18	53.09	29.50
August	318.42	1 867.84	437.77	49.95	66.98	137.59	57.63	30.20
September	331.45	1 839.91	455.94	50.33	65.26	136.95	58.77	31.25
October	322.42	1 928.71	470.11	51.83	66.23	144.47	54.21	33.25
November	336.20	2 050.59	476.67	52.76	67.28	150.50	51.11	34.50
December	362.67	2 248.45	509.42	53.45	66.88	146.16	51.68	36.25
<b>2006</b>								
January	362.06	2 377.10	549.43	52.18	62.94	142.91	56.26	37.50
February	372.59	2 455.33	555.52	53.27	64.15	143.35	56.24	38.50
March	380.20	2 429.13	557.22	54.36	64.80	148.95	56.33	40.50
April	408.16	2 621.58	611.85	55.72	63.12	140.42	63.19	41.50
May	402.30	2 861.48	676.77	54.63	62.93	129.51	64.98	43.00
June	429.34	2 477.34	597.90	61.02	62.93	137.00	63.45	45.50
July	398.03	2 512.71	633.09	61.35	62.65	127.10	67.76	47.50
August	391.16	2 459.93	631.56	60.72	62.31	122.73	68.89	48.50
September	398.28	2 472.88	600.15	61.63	62.00	122.02	60.45	54.00
	copper (high grade) LME cash US\$/t	lead LME cash US\$/t	zinc (high grade) LME cash US\$/t	silver d London fix US\$/troy oz	nickel LME cash US\$/t	ilmenite e avg export unit value A\$/t	rutile f avg export unit value A\$/t	zircon g avg export unit value A\$/t
<b>2003-04</b>	2 267.35	700.06	961.97	579.25	12 263.74	104.56	647.39	585.76
<b>2004-05</b>	3 151.00	964.08	1 170.95	694.94	14 971.10	99.29	717.20	746.27
<b>2005-06</b>	5 062.00	1 061.35	2 117.81	927.82	15 512.99	105.92	816.59	908.94
<b>2005</b>								
April	3 394.48	985.76	1 300.14	711.88	16 141.90	97.81	881.41	980.24
May	3 252.98	988.26	1 244.57	701.71	16 903.81	104.73	849.87	1 004.60
June	3 524.07	986.07	1 275.73	731.05	16 159.55	89.98	859.74	976.75
July	3 614.21	854.48	1 194.43	701.45	14 580.71	99.13	882.58	1 034.51
August	3 797.75	887.02	1 298.39	704.19	14 892.73	118.62	855.91	1 027.37
September	3 857.84	933.07	1 397.52	715.36	14 228.18	88.47	856.44	1 040.96
October	4 059.76	1 004.76	1 488.38	767.05	12 402.86	127.15	879.83	1 116.37
November	4 269.34	1 018.41	1 610.93	787.25	12 115.68	87.21	903.10	1 139.31
December	4 577.48	1 119.30	1 822.08	865.28	13 438.25	106.65	878.91	994.23
<b>2006</b>								
January	4 733.02	1 255.10	2 089.55	915.38	14 545.24	0.00	894.56	942.58
February	4 982.40	1 277.05	2 219.38	953.49	14 978.75	107.00	889.21	1 058.88
March	5 102.85	1 192.09	2 416.91	1 038.38	14 897.39	109.76	916.52	1 192.98
April	6 387.78	1 170.42	3 084.78	1 261.49	17 942.22	98.90	967.92	1 165.99
May	8 045.86	1 166.86	3 565.69	1 344.86	21 077.14	133.50	932.34	1 048.07
June	7 197.61	963.86	3 225.68	1 079.64	20 754.55	108.35	902.54	1 130.34
July	7 712.10	1 052.38	3 339.86	1 123.24	26 586.19	122.56	903.88	1 140.23
August	7 695.66	1 174.14	3 347.30	1 217.77	30 707.50	102.25	917.18	1 143.75
September	7 602.36	1 332.86	3 403.02	1 167.69	30 130.71	115.71	897.06	1 110.04

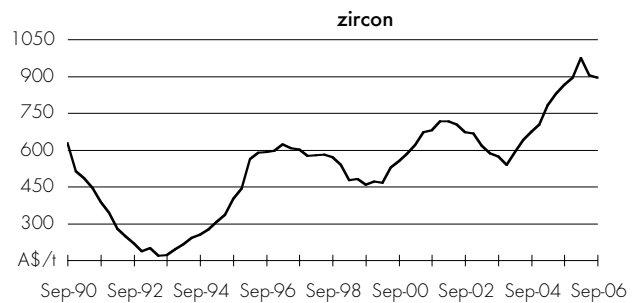
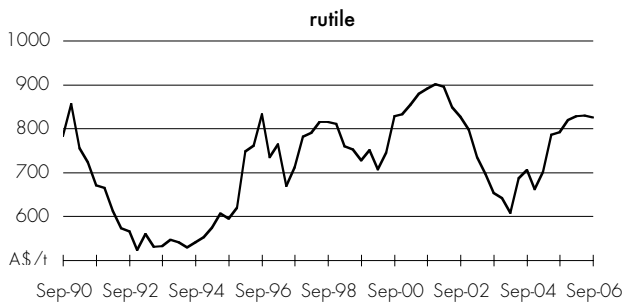
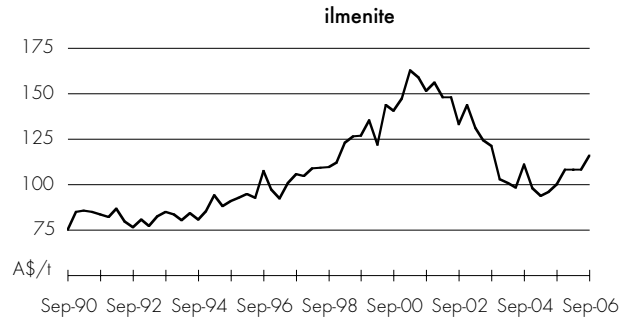
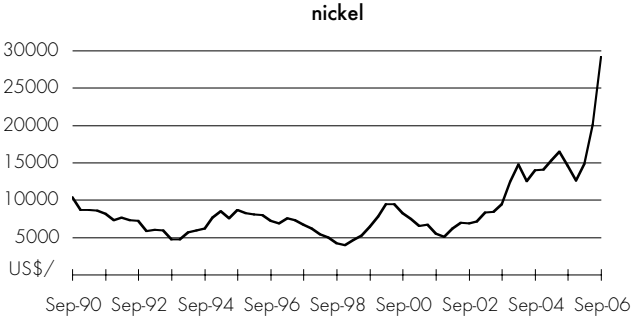
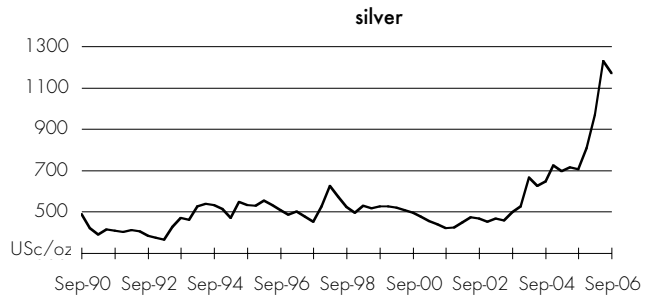
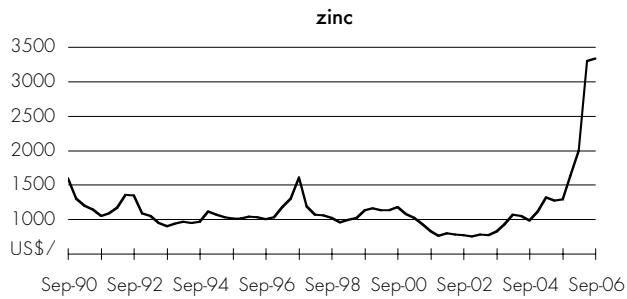
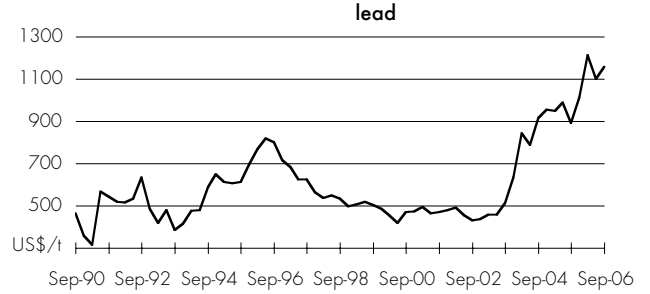
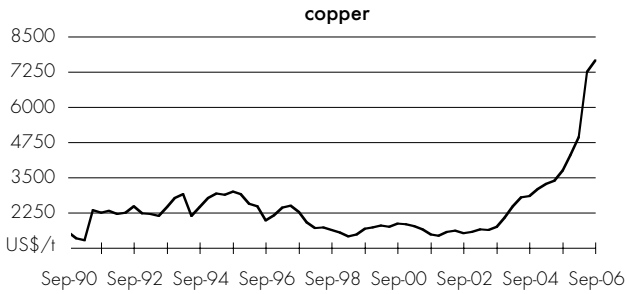
**a** Lump and fines. **b** US Department of Energy, *Energy Information Administration*. **c** Average of weekly restricted spot price published by The Ux Consulting Company. **d** London fix rate from May 2001; Handy and Harman, commercial bar, minimum 99.9 per cent prior to May 2001. **e** Bulk grade only after January 1992. **f** Bagged only after August 1999. **g** Based on all grades, bagged only from September 1999.

Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; London Bullion Market Association; The Ux Consulting Company; US Department of Energy; ABARE.

mineral resources prices, ended september quarter 2006



mineral resources prices, ended september quarter 2006



Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; London Bullion Market Association; The Ux Consulting Company; US Department of Energy, Energy Information Administration; ABARE

# 8 aluminium

	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Production</b>										
<b>Mine</b>										
Bauxite										
Queensland	kt	13 770	16 158	3 716	3 815	4 598	3 890	3 855	4 085	
Western Australia	kt	38 070	39 284	9 212	9 653	9 833	9 583	10 215	10 738	
Northern Territory	kt	5 808	5 432	1 419	1 380	1 590	1 163	1 300	1 162	
Australia	kt	57 648	60 874	14 347	14 848	16 021	14 636	15 370	15 986	
Alumina content	kt	21 251	22 728	5 358	5 520	6 103	5 437	5 669	5 873	
<b>Smelter and refinery</b>										
Alumina	kt	17 161	17 826	4 462	4 433	4 470	4 432	4 492	4 588	
Aluminium (ingot metal)	kt	1 890	1 912	475	485	482	469	476	489	
<b>Exports</b>										
<b>Quantity</b>										
Bauxite <b>a</b>	kt	4 900	5 639	1 165	1 401	1 524	1 253	1 462	1 363	
Alumina <b>bc</b>	kt	14 073	14 499	3 722	3 470	3 832	3 575	3 622	3 716	
Aluminium (ingot metal)										
Chinese Taipei	kt	170	187	45	42	45	48	51	43	
Indonesia	kt	67	93	19	24	25	24	20	19	
Japan	kt	552	542	150	154	151	110	128	186	
Korea, Rep. of	kt	207	240	65	53	61	62	63	56	
Malaysia	kt	74	87	20	22	23	21	21	18	
Thailand	kt	162	192	48	46	46	52	48	45	
Other	kt	281	276	65	70	72	65	69	67	
Total	kt	1 512	1 616	412	411	423	382	399	435	
<b>Value</b>										
Bauxite <b>a</b>	\$m	123	127	31	29	32	30	35	30	
Alumina <b>bc</b>	\$m	4 383	5 262	1 196	1 135	1 304	1 329	1 494	1 470	
Aluminium (ingot metal)	\$m	3 726	4 783	1 017	1 003	1 162	1 226	1 392	1 466	
<b>Imports</b>										
<b>Quantity</b>										
Bauxite	kt	10	11	2	2	3	2	5	1	
Alumina <b>b</b>	kt	1	1	0	0	0	0	0	0	
Aluminium (ingot metal)	kt	6	6	1	1	2	2	1	1	
<b>Value</b>										
Bauxite	\$m	2	3	0	0	1	1	1	0	
Alumina <b>b</b>	\$m	1	2	0	0	0	0	0	0	
Aluminium (ingot metal)	\$m	17	20	4	4	4	7	5	3	
<b>Prices</b>										
Alumina <b>d</b>	A\$/t	311	363	321	327	340	372	412	396	
Aluminium										
LME cash <b>e</b>	US\$/t	1 807	2 244	1 790	1 830	2 072	2 420	2 652	2 482	
Australia <b>d</b>	A\$/t	2 464	2 961	2 469	2 440	2 746	3 208	3 488	3 371	

**a** Bauxite export quantities are not available prior to September quarter 2004. Bauxite export values up to and including June quarter 2004 are ABARE estimates. **b** Includes aluminium hydroxide. **c** Country details confidential. **d** Average export unit value. **e** High grade. **p** Preliminary. **s** ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; ABARE.



	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Production</b>										
<b>Mine</b>										
Black coal, raw										
Underground	Mt	87.23	86.83	23.94	22.39	21.80	20.01	22.64	23.20	
Opencut	Mt	304.36	311.65	77.25	79.43	79.51	73.30	79.40	77.32	
New South Wales	Mt	156.31	161.25	41.06	40.40	41.67	37.69	41.50	42.32	
Queensland	Mt	226.62	226.53	57.52	58.75	56.96	52.95	57.86	55.50	
Western Australia <sup>a</sup>	Mt	6.22	6.30	1.55	1.58	1.58	1.58	1.58	1.58	
South Australia <sup>a</sup>	Mt	3.64	3.80	0.91	0.95	0.95	0.95	0.95	0.96	
Tasmania <sup>a</sup>	Mt	0.58	0.60	0.14	0.15	0.15	0.15	0.15	0.16	
Australia	Mt	393.36	398.48	101.19	101.82	101.31	93.32	102.04	100.52	
Black coal, salable										
Underground	Mt	70.10	66.66	19.62	17.45	16.69	15.33	17.19	17.45	
Opencut	Mt	234.76	239.16	59.47	60.76	61.40	56.42	60.59	60.11	
New South Wales	Mt	122.06	123.24	32.73	30.63	32.56	28.34	31.71	32.86	
Queensland	Mt	172.51	171.90	43.79	44.90	42.87	40.73	43.40	42.00	
Western Australia <sup>a</sup>	Mt	6.22	6.30	1.55	1.58	1.58	1.58	1.58	1.58	
South Australia <sup>a</sup>	Mt	3.64	3.80	0.91	0.95	0.95	0.95	0.95	0.96	
Tasmania <sup>a</sup>	Mt	0.42	0.58	0.11	0.15	0.15	0.15	0.15	0.15	
Australia	Mt	304.86	305.82	79.09	78.20	78.10	71.74	77.78	77.56	
Brown coal <sup>b</sup>										
Victoria <sup>s</sup>	Mt	70.60	71.24	na	na	na	na	na	na	
<b>Exports</b>										
<b>Quantity</b>										
Metallurgical coal, high quality										
Brazil	Mt	3.09	3.17	0.86	1.09	0.74	0.56	0.79	0.71	
China	Mt	3.73	2.22	0.97	0.44	0.68	0.93	0.17	0.50	
Chinese Taipei	Mt	3.51	3.31	0.87	0.77	0.84	0.79	0.91	1.04	
European Union 25	Mt	19.49	19.32	5.32	4.94	5.20	4.23	4.94	5.42	
India	Mt	13.41	13.63	4.00	3.28	3.87	2.96	3.51	4.37	
Japan	Mt	22.87	23.87	6.88	5.61	5.82	5.39	7.05	6.27	
Korea, Rep. of	Mt	8.01	6.58	1.45	1.83	1.83	1.70	1.22	1.53	
Other	Mt	6.59	5.39	1.66	1.18	1.20	1.53	1.48	1.38	
Total	Mt	80.73	77.48	22.00	19.14	20.19	18.10	20.06	21.23	
Metallurgical coal, other <sup>c</sup>										
Chinese Taipei	Mt	3.58	4.41	1.23	1.48	0.84	1.28	0.80	1.10	
European Union 25	Mt	4.76	4.73	1.28	1.09	1.14	1.20	1.30	1.02	
India	Mt	4.03	2.77	0.95	0.79	0.61	0.62	0.74	0.82	
Japan	Mt	22.09	20.35	5.17	5.04	4.78	5.56	4.97	5.53	
Korea, Rep. of	Mt	4.45	1.12	1.06	1.12	0.00	0.00	0.00	0.00	
Other	Mt	5.29	9.62	1.61	1.34	2.86	2.85	2.58	3.06	
Total	Mt	44.19	42.99	11.30	10.86	10.23	11.50	10.40	11.54	
Total coking coal	Mt	124.92	120.48	33.30	29.99	30.42	29.60	30.46	32.77	
Thermal coal										
Chinese Taipei	Mt	14.33	13.21	3.31	3.27	3.05	3.32	3.57	3.71	
European Union 25	Mt	3.48	2.32	0.70	0.84	0.07	0.59	0.81	0.60	
Hong Kong, China	Mt	0.37	0.08	0.00	0.00	0.00	0.00	0.08	0.01	
Japan	Mt	57.28	59.33	14.41	15.13	15.68	14.19	14.33	14.24	
Korea, Rep. of	Mt	17.95	20.24	5.41	5.62	4.61	4.75	5.27	4.00	
Other	Mt	12.99	15.66	2.79	3.78	2.72	3.94	5.23	4.75	
Total	Mt	106.40	110.82	26.61	28.64	26.12	26.78	29.29	27.32	

continued



	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Exports</b>										
<b>Quantity</b>										
Other coal	Mt	1.02	1.17	0.16	0.31	0.34	0.31	0.20	0.35	
Coke <b>d</b>	Mt	na	na	na	na	na	na	na	na	
<b>Value</b>										
Metallurgical coal										
High quality	\$m	7 692	12 203	2 938	2 907	3 302	2 964	3 031	3 012	
Other quality	\$m	3 067	4 800	1 025	1 199	1 170	1 331	1 100	1 051	
Total metallurgical coal	\$m	10 758	17 003	3 963	4 106	4 472	4 295	4 131	4 063	
Thermal coal	\$m	6 336	7 206	1 685	1 905	1 743	1 713	1 845	1 703	
Other coal	\$m	50	80	11	16	20	23	20	23	
Total coal	\$m	17 145	24 290	5 659	6 027	6 235	6 031	5 996	5 789	
Coke	\$m	90	59	35	4	5	25	25	14	
Imports										
<b>Quantity</b>										
Coke	Mt	0.02	0.05	0.01	0.00	0.01	0.02	0.02	0.01	
<b>Value</b>										
Coke	\$m	0	4	0	0	1	1	2	2	
<b>Prices <b>e</b></b>										
Metallurgical coal										
High quality	A\$/t	95.28	157.49	133.55	151.89	163.52	163.78	151.10	141.85	
Other	A\$/t	69.40	111.65	90.72	110.44	114.34	115.71	105.77	91.14	
Thermal coal	A\$/t	59.55	65.02	63.32	66.52	66.75	63.95	63.00	62.33	

**a** Quarterly data derived from annual ABARE estimates. **b** Quarterly data not available. **c** Country details confidential for various time periods for Brazil, Chinese Taipei, Dem. Peoples Rep. of Korea, Italy, Pakistan and Republic of Korea - commencing from October 1996. **d** Quantity details not available from August 2003. **e** Average export unit value

**p** Preliminary. **s** ABARE estimate. **na** Not available.

Sources: Australian Bureau of Statistics, Canberra; Coal Services Pty Limited; Queensland Government, Department of Natural Resources and Mines; ABARE.

## 10 copper

	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Production</b>										
<b>Mine s</b>										
Copper ore and concentrate	kt	2 672	2 826	677	677	698	713	737	756	
Copper content of all minerals produced										
New South Wales a	kt	175	193	46	45	50	49	50	49	
Queensland a	kt	408	398	101	106	108	89	95	89	
Western Australia a	kt	61	93	23	24	25	21	22	31	
South Australia	kt	231	204	53	49	54	47	55	42	
Tasmania	kt	29	32	7	8	8	8	8	8	
Australia a	kt	905	920	230	231	245	214	230	219	
Smelter and refinery										
Blister copper (primary) b	kt	434	404	100	106	100	99	100	86	
Refined copper (primary) s	kt	479	461	111	121	115	113	113	98	
<b>Exports</b>										
<b>Quantity</b>										
Copper concentrate										
China c	kt	397	583	180	67	219	139	158	114	
India	kt	436	493	82	147	109	156	81	136	
Japan	kt	353	392	122	100	137	66	88	95	
Korea, Rep. of	kt	78	68	29	10	16	31	12	37	
Other	kt	61	100	0	22	46	10	22	51	
Total	kt	1 326	1 636	414	346	528	402	361	433	
Refined copper										
Chinese Taipei	kt	88	76	15	17	11	27	21	8	
Indonesia	kt	35	30	7	9	12	4	5	3	
Japan	kt	2	6	1	1	2	1	2	1	
Singapore	kt	1	7	0	4	1	0	3	1	
Thailand	kt	51	65	14	16	19	17	13	12	
Other	kt	145	130	35	28	34	30	38	27	
Total	kt	322	314	73	76	79	79	80	53	
Copper content of all primary materials exported ds	kt	701	791	191	181	235	194	181	174	
<b>Value</b>										
Copper concentrate	\$m	1 750	3 504	593	575	969	900	1 060	1 151	
Refined copper	\$m	1 332	2 161	325	380	463	546	772	540	
Total	\$m	3 082	5 665	917	955	1 432	1 446	1 832	1 690	
<b>Prices e</b>										
LME cash	US\$/t	3 151	5 062	3 393	3 759	4 297	4 943	7 251	7 670	
Australia	A\$/t	4 195	6 842	4 426	4 974	5 793	6 769	9 832	10 150	

a Includes copper cathode and copper precipitate. b Copper content. c Excludes Hong Kong. d Copper content of all ores and concentrates, slags, residues, intermediate products, refined copper, copper powder and flakes. e Based on LME cash, midday, high grade, 25 tonne warrants. p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; ABARE.

## 11 diamonds and other gemstones

	Unit	2004-05	2005-06 <sup>p</sup>	Quarter						
				2004-05		2005-06 <sup>p</sup>			2006-07 <sup>p</sup>	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Production</b>										
Diamonds										
Northern Territory	'000 ct	0	14	0	5	7	0	2	5	
Western Australia	'000 ct	32 471	25 339	9 474	6 043	6 516	5 244	7 537	8 389	
Australia	'000 ct	32 471	25 354	9 474	6 048	6 523	5 244	7 539	8 394	
<b>Exports</b>										
<b>Quantity</b>										
Diamonds										
Unsorted <sup>s</sup>	'000 ct	32 395	25 226	9 458	6 020	6 474	5 222	7 510	8 372	
Sorted										
Gem	'000 ct	72	126	16	28	49	21	28	22	
Industrial <sup>a</sup>	'000 ct	4	2	0	0	0	1	0	0	
Total <sup>s</sup>	'000 ct	32 471	25 354	9 474	6 048	6 523	5 244	7 539	8 394	
<b>Value</b>										
Diamonds										
Unsorted <sup>s</sup>	\$m	539	373	164	87	95	69	121	140	
Sorted										
Gem	\$m	119	151	29	36	39	40	35	35	
Industrial <sup>a</sup>	\$m	0	0	0	0	0	0	0	0	
Total <sup>s</sup>	\$m	658	523	193	124	134	109	157	175	
Opals										
Rough	\$m	14	13	3	2	2	6	3	4	
Cut and polished	\$m	40	37	15	11	7	13	7	9	
Total	\$m	54	50	18	12	9	19	10	13	
Sapphires										
Rough	\$m	0	1	0	1	0	0	0	0	
Total	\$m	0	1	0	1	0	0	0	0	
Other gemstones <sup>b</sup>	\$m	7	8	1	4	2	2	1	1	
Total gemstones	\$m	61	59	19	17	11	20	11	14	
<b>Imports</b>										
<b>Quantity</b>										
Diamonds										
Unsorted	'000 ct	1	1	0	0	0	0	0	0	
Sorted										
Gem	'000 ct	376	1 641	91	148	1 314	84	95	88	
Industrial <sup>a</sup>	'000 ct	16	126	6	50	49	20	8	15	
Dust and powder	'000 ct	1 775	2 330	535	523	205	786	816	719	
<b>Value</b>										
Diamonds										
Unsorted	\$m	1	1	0	0	0	0	0	0	
Sorted										
Gem	\$m	342	398	86	93	105	96	104	90	
Industrial <sup>a</sup>	\$m	1	2	0	0	0	1	1	1	
Dust and powder	\$m	2	3	1	1	0	1	1	1	
Total	\$m	347	403	87	94	106	98	106	91	

<sup>a</sup> Excludes dust, powder and unsorted diamonds. <sup>b</sup> Includes cut and polished sapphires from 1 July 2000. <sup>p</sup> Preliminary. <sup>s</sup> ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE; Department of Minerals and Energy, Western Australia; Department of Minerals and Energy, Northern Territory.

## 12 gold

	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Production</b>										
<b>Mine s</b>										
Gold content of all minerals produced										
New South Wales	t	29	29	7	7	8	6	7	7	
Victoria	t	4	6	1	2	2	2	1	1	
Queensland	t	24	22	6	6	6	5	5	6	
Western Australia	t	173	165	44	42	43	40	41	41	
South Australia	t	5	7	1	2	2	2	2	2	
Tasmania	t	10	7	2	2	2	2	1	1	
Northern Territory	t	21	14	5	4	3	3	3	3	
Australia	t	266	250	66	64	66	60	60	62	
<b>Refinery</b>										
Primary										
Australian origin	t	227	209	54	53	55	51	49	51	
Overseas origin	t	76	66	18	19	16	18	13	14	
Secondary										
Australian origin	t	5	7	1	2	1	1	1	2	
Overseas origin	t	38	99	10	7	16	29	47	16	
Total	t	345	380	84	82	88	99	110	83	
<b>Exports</b>										
<b>Quantity</b>										
Refined and unrefined bullion										
China	t	5	1	3	1	0	0	0	0	
Hong Kong, China	t	1	1	0	1	0	0	0	0	
India	t	155	127	57	50	21	25	30	43	
Japan	t	8	18	2	4	10	1	4	2	
Korea, Rep. of	t	13	5	1	1	2	1	1	1	
Malaysia	t	4	0	1	0	0	0	0	0	
Middle East	t	0	3	0	0	0	1	2	0	
United Arab Emirates	t	0	3	0	0	0	1	2	0	
Singapore	t	13	13	4	4	4	3	3	5	
Switzerland	t	0	3	0	0	1	2	0	0	
Thailand	t	55	33	9	12	9	6	6	7	
United Kingdom	t	44	101	0	3	26	30	41	22	
Other	t	12	10	2	4	1	0	5	13	
Total	t	309	315	78	79	73	70	93	93	
<b>Value</b>										
Refined	\$m	5 523	7 112	1 380	1 445	1 541	1 666	2 459	2 411	
<b>Imports</b>										
<b>Value</b>										
Refined and unrefined bullion	\$m	2 462	4 800	740	765	732	1 358	1 946	1 163	
<b>Prices</b>										
London AM fix	US\$/oz	422	527	427	439	485	554	629	622	
Australia	A\$/oz	562	707	557	579	654	753	843	822	

p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; London Bullion Market Association; ABARE.

# 13 iron

	Unit	2004-05	2005-06 p	Quarter					
				2004-05	2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.
<b>Production</b>									
Iron ore and concentrate <b>a</b>									
Western Australia <b>s</b>	kt	246 260	258 394	65 551	64 741	65 844	59 193	68 617	70 885
South Australia	kt	3 484	3 490	873	873	873	873	873	1 078
Tasmania	kt	2 174	1 931	541	519	503	504	405	175
Australia <b>s</b>	kt	251 918	263 815	66 965	66 133	67 220	60 569	69 894	72 138
Iron content <b>s</b>	kt	156 370	163 850	41 570	41 113	41 712	37 645	43 379	45 454
<b>Iron and steel</b>									
Iron and steel <b>bs</b>	kt	7 395	7 866	1 933	2 030	1 926	1 915	1 995	2 021
<b>Exports</b>									
<b>Quantity</b>									
Iron ore and pellets									
Pellets, sinters and briquettes	kt	1 239	1 083	316	219	311	333	219	75
Fines	kt	158 122	168 405	40 515	40 757	45 261	38 358	44 029	45 184
Lump and run of mine	kt	69 095	69 873	18 524	17 879	19 086	15 432	17 476	19 222
Total iron ore and pellets									
China <b>c</b>	kt	99 635	123 469	28 084	29 374	34 685	27 874	31 536	32 516
Chinese Taipei	kt	9 457	8 880	2 393	2 440	1 919	2 058	2 464	2 524
European Union 25	kt	12 348	9 384	2 998	2 664	2 281	2 139	2 300	2 031
Japan	kt	80 183	72 313	19 651	17 747	19 273	15 918	19 376	19 629
Korea, Rep. of	kt	25 626	24 705	6 181	6 435	6 397	5 929	5 945	7 591
Other	kt	1 208	610	49	197	103	206	104	189
Total	kt	228 456	239 361	59 355	58 856	64 657	54 123	61 724	64 480
Iron content	kt	142 196	148 870	36 967	36 630	40 223	33 653	38 364	40 106
Steel									
Iron and steel	kt	2 338	2 428	562	570	570	620	668	633
Scrap	kt	1 009	1 876	292	229	927	301	420	223
<b>Value</b>									
Iron ore and pellets									
Pellets, sinters and briquettes	\$m	73	87	21	18	22	27	20	1
Fines	\$m	5 060	8 266	1 810	1 892	2 186	1 872	2 317	2 545
Lump and run of mine	\$m	2 987	4 496	1 097	1 091	1 205	996	1 204	1 399
Total	\$m	8 120	12 849	2 929	3 001	3 413	2 895	3 540	3 944
Steel									
Iron and steel	\$m	2 031	1 674	460	403	410	414	446	421
Scrap	\$m	402	467	115	83	111	108	166	105
Total	\$m	2 434	2 141	575	486	521	522	612	526
<b>Imports</b>									
<b>Quantity</b>									
Iron ore <b>d</b>	kt	4 648	5 026	1 138	1 365	1 453	740	1 467	1 265
Iron and steel	kt	2 116	2 191	637	566	564	532	530	617
Ferroalloys	kt	60	57	15	14	16	12	15	38
<b>Value</b>									
Iron ore <b>d</b>	\$m	145	222	48	59	48	48	67	72
Iron and steel	\$m	2 041	2 075	628	584	529	511	452	539
Ferroalloys	\$m	137	123	47	39	30	22	31	28
Total	\$m	2 323	2 420	723	682	607	582	550	639
<b>Prices</b>									
Japanese negotiated <b>e</b>	US\$/dltu	36.57	62.72	62.72	62.72	62.72	62.72	74.63	74.63

**a** For use in iron and steel making; includes pellets for Tasmania. **b** Includes recovery from scrap. **c** Excludes Hong Kong. **d** Includes limonite ore used in the production of refined nickel products. **e** Indicative price: Australian hematite fines to Japan (fob), per dry long tonne unit, for Japanese fiscal year commencing 1 April. **p** Preliminary. **s** ABARE estimate. Sources: Australian Bureau of Statistics, Canberra; ABARE.

## 14 lead

	Unit	2004-05	2005-06 p	Quarter					
				2004-05	2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.
<b>Production</b>									
<b>Mine s</b>									
Lead ore and concentrates	kt	997	1 063	249	293	281	251	238	231
Lead content of all minerals produced									
New South Wales	kt	103	109	28	35	27	21	26	28
Queensland	kt	500	531	124	150	141	124	116	106
Western Australia	kt	12	62	6	10	17	19	17	17
Tasmania	kt	33	28	7	6	7	8	6	7
Northern Territory	kt	34	31	9	9	8	8	6	7
Australia	kt	682	761	174	211	201	180	170	165
Smelter and refinery									
Refined lead (primary) b	kt	234	234	58	49	62	60	63	24
Domestic despatches									
Refined lead	kt	33	28	7	8	7	7	7	8
<b>Exports</b>									
<b>Quantity</b>									
Lead concentrate									
China	kt	113	249	37	69	85	45	49	46
European Union 25	kt	59	58	11	11	16	11	21	11
Japan	kt	43	64	11	16	11	16	21	16
Korea, Rep. of	kt	171	131	59	16	55	21	39	21
Other	kt	30	0	0	0	0	0	0	9
Total	kt	417	502	117	112	167	93	130	103
Lead bullion c									
United Kingdom	kt	164	140	36	38	55	28	20	37
Total	kt	164	140	36	38	55	28	20	37
Refined lead									
Chinese Taipei	kt	7	9	1	1	3	4	2	0
India	kt	30	33	8	6	10	7	10	9
Indonesia	kt	11	13	4	3	3	3	4	3
Korea, Rep. of	kt	35	24	1	2	6	7	8	8
Thailand	kt	19	29	6	7	7	8	7	2
Other	kt	141	135	39	37	35	28	34	21
Total	kt	243	244	59	57	66	56	65	43
Lead content of all primary materials exported ds	kt	782	756	194	179	243	154	179	156
<b>Value</b>									
Lead concentrate	\$m	490	710	141	127	228	149	206	152
Lead bullion	\$m	246	235	59	60	77	54	44	79
Refined lead	\$m	305	350	74	70	88	88	104	62
Total	\$m	1 041	1 295	274	257	394	291	353	294
<b>Prices</b>									
LME cash e	US\$/t	964	1 061	987	892	1 012	1 212	1 100	1 159
Australia f	A\$/t	1 534	1 775	1 615	1 534	1 654	1 976	1 937	1 759

a Metallic content. b Includes lead content of lead alloys from primary sources. c Includes a substantial precious metal content, mainly silver. d Lead content of all ores, concentrates, slags, residues, bullion, and refined lead. e Based on LME cash, midday, standard grade, minimum 25 tonne warrants. f Pasmenco Metals, 99.97-99.99 per cent, fob/for Port Pirie.

p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; ABARE.

## 15 manganese


	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Production</b>										
Manganese ore and concentrate										
Western Australia s	kt	607	1 056	192	214	233	239	370	299	
Northern Territory	kt	2 956	3 025	787	821	749	694	761	955	
Australia s	kt	3 563	4 081	979	1 035	982	933	1 131	1 254	
Manganese content s	kt	1 710	1 959	470	497	471	448	543	602	
<b>Exports a</b>										
<b>Quantity</b>										
Manganese ore and concentrate	kt	3 128	3 215	914	466	854	640	1 255	1 086	
<b>Value</b>										
Manganese ore and concentrate	\$m	473	424	159	73	125	83	143	113	
<b>Prices</b>										
Japanese negotiated b	US\$/mtu	2.45	3.98	3.98	3.98	3.98	3.98	3.54	3.54	
	A\$/t	156.32	256.19	248.88	251.83	257.18	259.41	227.94	224.56	

a Quarterly data derived from annual ABARE estimates to June quarter 2004. ABS data from September quarter 2004. b Indicative price: high grade ore (48 per cent Mn) to Japan for Japanese fiscal year commencing 1 April. p Preliminary. s ABARE estimate.  
Sources: Australian Bureau of Statistics, Canberra; ABARE.

## 16 nickel

	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Production as Mine</b>										
Nickel content										
Western Australia	kt	192	183	43	46	52	41	44	44	
Australia	kt	192	183	43	46	52	41	44	44	
<b>Smelter and refinery</b>										
Intermediate nickel	kt	115	99	29	27	28	20	24	24	
Refined nickel, class 1 b	kt	116	104	28	27	29	24	24	29	
Refined nickel, class 2 c	kt	10	7	3	2	2	2	1	2	
<b>Exports s</b>										
<b>Quantity</b>										
Nickel d	kt	218	202	54	53	54	48	47	51	
<b>Value</b>										
Ores and concentrates	\$m	750	863	207	204	176	210	273	339	
Intermediate products e	\$m	525	432	144	114	102	85	130	194	
Refined nickel, class 1 b	\$m	2 302	2 138	591	537	490	473	638	1 138	
Refined nickel, class 2 c	\$m	154	114	42	29	25	33	27	63	
Total	\$m	3 731	3 548	984	885	793	801	1 069	1 733	
<b>Imports</b>										
<b>Value</b>										
Primary nickel products f	\$m	106	128	29	31	35	13	49	41	
<b>Prices</b>										
LME cash g	US\$/t	14 971	15 513	16 421	14 569	12 639	14 807	20 036	29 166	
	A\$/t	19 915	20 812	21 402	19 214	17 022	20 115	26 909	38 590	

a Details of production of nickel metal, matte, oxide, sinter and nickel-cobalt sulphide are not available. b Products with a nickel content of 99 per cent or more. Includes electrolytic nickel, pellets, briquettes and powder. c Products with a nickel content of less than 99.8 per cent. Includes ferronickel, nickel oxides and oxide sinter. d Includes metal content of ores and concentrates, intermediate products and nickel metal. e Includes matte and speiss for further refining. f Includes matte, sinter and intermediate products; ferronickel, unwrought nickel metal and alloys and scrap. g Average cash settlement price for melting grade refined nickel. p Preliminary. s ABARE estimate.  
Sources: Australian Bureau of Statistics, Canberra; International Nickel Study Group; London Metal Exchange; ABARE.

 petroleum

	Unit	2004-05	2005-06 p	Quarter					
				2004-05	2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.
<b>Production</b>									
<b>Field</b>									
Crude oil <b>s</b>	ML	20 259	17 251	5 652	4 913	4 753	3 660	3 926	5 667
Condensate <b>s</b>	ML	7 052	7 069	1 837	1 965	1 873	1 685	1 547	1 893
Total <b>s</b>	ML	27 311	24 320	7 489	6 877	6 626	5 344	5 473	7 559
Production rate <b>s</b>	'000 bbl/day	470	419	512	470	453	365	374	517
LPG	ML	4 628	4 722	1 171	1 300	1 158	1 056	1 208	1 291
Ethane <b>a</b>	Mm <sup>3</sup>	407	456	108	115	116	104	120	128
Natural gas <b>a</b>	Mm <sup>3</sup>	37 267	38 014	9 442	9 921	9 297	8 591	10 205	10 136
<b>Refinery</b>									
Refinery input	ML	40 334	36 895	9 534	9 146	9 646	9 427	8 677	9 340
<b>Refinery output</b>									
LPG	ML	995	1 125	288	272	285	298	270	348
Automotive gasoline	ML	17 913	16 528	4 307	4 202	4 176	4 090	4 059	4 412
Aviation gasoline	ML	144	119	30	25	28	36	31	31
Aviation turbine fuel	ML	5 325	5 216	1 216	1 294	1 430	1 257	1 235	1 319
Kerosine	ML	26	12	1	2	2	7	2	0
Heating oil	ML	106	102	34	32	11	17	41	34
Automotive diesel oil	ML	12 822	10 154	3 017	2 919	2 664	2 345	2 226	2 304
Industrial and marine diesel fuel	ML	22	31	5	8	13	4	5	5
Fuel oil (excl. refinery fuel)	ML	1 092	1 048	328	250	236	299	263	247
Lubricating oil basestock	ML	202	163	40	35	40	49	39	35
Bitumen	ML	1 091	831	400	134	268	191	237	210
Other products	ML	977	946	228	351	159	242	195	121
Total	ML	40 202	36 274	9 894	9 524	9 311	8 834	8 605	9 066
<b>Sales</b>									
LPG									
Automotive use <b>b</b>	ML	2 339	2 681	584	747	728	620	587	638
Total	ML	3 386	4 167	825	1 213	1 042	877	1 036	1 142
Automotive gasoline									
Lead replacement <b>c</b>	ML	495	15	54	13	2	0	0	0
Premium unleaded	ML	2 976	1 867	727	476	500	470	422	427
Regular unleaded	ML	16 406	15 932	4 011	4 020	4 087	3 939	3 887	4 040
Other unleaded <b>d</b>	ML	0	1 203	0	295	304	317	288	324
Total	ML	19 876	19 018	4 791	4 803	4 892	4 726	4 597	4 792
Aviation gasoline	ML	91	86	24	23	22	20	22	23
Aviation turbine fuel	ML	4 730	5 359	1 164	1 210	1 366	1 390	1 394	1 487
Kerosine	ML	12	27	4	4	6	8	8	6
Heating oil	ML	34	26	11	9	3	5	9	5
Automotive diesel oil	ML	15 185	15 804	3 906	3 791	4 097	3 838	4 077	4 134
Industrial and marine diesel fuel	ML	15	19	4	5	4	5	5	5
Fuel oil	ML	1 595	1 586	373	369	438	403	376	373
Lubricating oil and greases	ML	470	451	124	117	113	105	115	109
Bitumen	ML	812	805	222	166	200	236	203	162
Other products	ML	939	973	231	268	241	233	230	230
Total	ML	47 145	48 323	11 679	11 979	12 425	11 847	12 072	12 467

continued

17 petroleum *continued*

	Unit	2004-05	2005-06 p	Quarter					
				2004-05	2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.
<b>Exports</b>									
<b>Quantity</b>									
Crude oil and other refinery feedstock									
China	ML	732	404	99	98	104	104	98	100
Chinese Taipei	ML	916	346	321	114	224	8	0	105
Japan	ML	1 927	2 201	462	639	557	618	387	466
Korea, Rep. of	ML	2 787	2 725	750	967	762	588	408	647
New Zealand	ML	1 425	465	258	205	127	62	71	340
Singapore	ML	2 861	3 110	677	961	965	627	557	1 301
United States	ML	1 154	297	350	100	197	0	0	92
Other	ML	3 929	3 478	1 111	1 081	671	862	865	1 015
Total	ML	15 731	13 026	4 028	4 166	3 607	2 867	2 386	4 066
LNG	Mt	10.59	12.50	2.65	2.93	2.98	2.99	3.60	3.45
LPG	ML	2 844	2 800	659	985	556	602	656	734
Refinery products									
Automotive gasoline	ML	774	714	150	149	264	178	122	243
Aviation turbine fuel	ML	240	127	15	37	44	46	0	27
Diesel fuel <b>d</b>	ML	367	419	32	101	73	240	4	87
Fuel oil	ML	201	490	65	64	119	217	89	30
Aviation gasoline	ML	38	85	8	8	21	24	32	54
Lubricants	ML	156	179	53	58	44	35	42	44
Other products	ML	70	69	15	18	17	17	16	22
Total	ML	1 847	2 082	338	435	583	758	306	507
Ships' and aircraft stores									
Aviation turbine fuel	ML	1 893	1 893	473	473	473	473	473	473
Fuel oil	ML	297	259	66	66	66	64	64	64
Other products	ML	16	11	3	5	1	2	3	3
Total	ML	2 207	2 163	542	544	540	540	540	540
<b>Value</b>									
Crude oil and other refinery feedstock									
	\$m	6 330	6 638	1 725	2 032	1 720	1 506	1 379	2 330
LNG	\$m	3 199	4 416	869	966	1 099	1 060	1 290	1 351
LPG	\$m	804	1 002	200	293	217	254	237	288
Refinery products									
Automotive gasoline	\$m	339	419	73	92	145	99	83	132
Aviation turbine fuel	\$m	108	80	8	24	26	30	0	17
Diesel fuel <b>d</b>	\$m	166	238	18	59	39	136	4	64
Fuel oil	\$m	51	215	21	26	50	96	42	13
Aviation gasoline	\$m	26	54	6	6	12	14	21	47
Lubricants	\$m	112	139	36	40	32	30	36	37
Other products	\$m	41	52	10	12	13	12	14	17
Total	\$m	844	1 195	172	258	318	418	201	327
Total	\$m	11 176	13 251	2 966	3 549	3 355	3 239	3 108	4 295
Ships' and aircraft stores									
Aviation turbine fuel	\$m	858	1 206	259	297	268	313	328	326
Fuel oil	\$m	82	107	21	24	27	28	29	29
Other products	\$m	11	9	2	4	1	1	3	3
Total	\$m	951	1 322	281	324	296	343	360	358

*continued*

17 petroleum *continued*

	Unit	2004-05	2005-06 p	Quarter					
				2004-05	2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.
<b>Imports</b>									
<b>Quantity</b>									
Crude oil and other refinery feedstock									
Indonesia	ML	3 328	3 929	644	1 129	1 035	783	982	552
Malaysia	ML	4 761	3 976	1 127	814	909	1 330	924	560
Middle East									
Qatar	ML	77	0	0	0	0	0	0	0
Saudi Arabia	ML	3 101	1 602	1 140	135	537	606	325	190
United Arab Emirates	ML	1 917	864	32	143	112	284	325	877
Other	ML	158	199	103	0	95	103	0	33
Total Middle East	ML	5 252	2 665	1 275	278	744	993	650	1 100
New Zealand	ML	663	644	187	171	105	207	162	92
Papua New Guinea	ML	1 717	2 386	609	591	564	827	404	473
Singapore	ML	652	830	211	258	186	216	168	160
Viet Nam	ML	6 560	6 708	1 362	1 520	1 620	1 727	1 841	2 090
Other	ML	3 122	3 286	848	980	826	597	882	904
Total	ML	26 054	24 424	6 263	5 741	5 989	6 680	6 013	5 932
Refined products									
LPG	ML	540	599	175	6	254	83	257	177
Automotive gasoline	ML	3 131	3 697	887	605	1 142	920	1 030	547
Aviation turbine fuel	ML	983	817	328	249	121	222	224	262
Diesel fuel <b>d</b>	ML	3 944	6 122	1 300	1 269	1 380	1 650	1 822	1 303
Fuel oil	ML	1 281	1 418	283	397	351	361	309	290
Lubricants	ML	327	370	91	118	88	70	95	99
Other products	ML	981	2 110	224	187	227	488	1 208	1 502
Total	ML	11 188	15 134	3 288	2 831	3 563	3 793	4 946	4 179
<b>Value</b>									
Crude oil and other refinery feedstock									
	\$m	9 995	12 833	2 691	2 797	2 956	3 514	3 566	3 552
Refined products									
LPG	\$m	143	198	46	3	80	30	85	64
Automotive gasoline	\$m	1 463	2 348	461	375	658	555	759	407
Aviation turbine fuel	\$m	483	529	184	153	71	141	163	191
Diesel fuel <b>d</b>	\$m	1 933	4 076	721	788	836	1 073	1 379	948
Fuel oil	\$m	364	569	90	140	139	146	144	124
Lubricants	\$m	288	418	81	106	97	90	124	132
Other products	\$m	448	636	111	100	122	178	237	298
Total	\$m	5 123	8 773	1 693	1 665	2 003	2 214	2 892	2 162
Total	\$m	15 118	21 607	4 384	4 462	4 959	5 728	6 458	5 715
<b>Prices</b>									
Dubai	US\$/bbl	40.72	58.30	48.15	55.92	53.45	58.48	65.35	66.40
West Texas intermediate									
	US\$/bbl	48.77	64.22	53.16	63.14	60.04	63.27	70.41	70.42
Brent	US\$/bbl	46.23	62.44	51.58	61.55	56.94	61.75	69.53	69.62
Tapis	US\$/bbl	49.15	66.72	55.23	64.72	60.84	67.49	73.77	75.43
World trade weighted average									
	US\$/bbl	41.18	57.25	47.13	56.50	52.33	56.28	63.87	65.70
	A\$/bbl	54.77	76.80	61.42	74.51	70.48	76.45	85.78	86.93

**a** Commercial sales plus field and plant usage. **b** This is a minimum level and includes only direct sales by the oil industry. The data do not include volumes sold to distributor etc. which are subsequently used or sold for automotive use. **c** Leaded petrol phased out as at 1 January 2002. Lead replacement petrol (LRP) introduced as at 1 January 2002. **d** Includes automotive diesel oil and industrial and marine diesel fuel. **e** Data not available from January to December 2002 due to confidentiality restrictions. **p** Preliminary. **s** ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; Department of Industry, Tourism and Resources, Canberra; US Department of Energy, *Energy Information Administration*, Tokyo Commodity Exchange; ABARE.

## 18 petroleum production, by basin

	Crude oil ML	Condensate ML	Total crude oil and condensate		LPG (naturally occurring) <sup>a</sup>	Ethane <sup>a</sup>	Natural gas <sup>a</sup>
			ML	'000 bbl/day	ML	Mm <sup>3</sup>	Mm <sup>3</sup>
<b>June quarter 2006</b>							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	2.9
Amadeus	11.9	0.0	11.9	0.8	0.0	0.0	107.2
Bonaparte	328.0	98.5 <b>s</b>	426.5 <b>s</b>	29.2 <b>s</b>	0.0	0.0	0.0
Bowen-Surat	4.2	4.3	8.5	0.6	5.7	0.0	159.6
Canning	0.6	0.0	0.6	0.0	0.0	0.0	0.0
Carnarvon							
Barrow Island	90.9	0.0	90.9	6.4	0.0	0.0	418.7
North West Shelf	1 192.8 <b>s</b>	1 055.1	2 247.9 <b>s</b>	153.7 <b>s</b>	474.2	0.0	5 785.7
Other	1 016.9 <b>s</b>	51.8	1 068.7 <b>s</b>	73.0 <b>s</b>	0.0	0.0	346.6
Cooper-Eromanga							
Queensland	113.2	49.2	162.5	11.4	0.0	0.0	0.0
South Australia	114.5	55.9	170.4	11.9	143.2	65.4	920.4
Gippsland	980.0	230.5	1 210.5	84.6	584.8	55.1	2 332.4
Otway	0.0	0.7	0.7	0.0	0.0	0.0	41.2
Perth	73.2	0.6	73.8	5.2	0.0	0.0	90.4
Total	3 926.0 <b>s</b>	1 546.5 <b>s</b>	5 472.5 <b>s</b>	374.1 <b>s</b>	1 207.9	120.4	10 205.1
<b>September quarter 2006 p</b>							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	2.9
Amadeus	9.1	0.0	9.1	0.6	0.0	0.0	114.1
Bonaparte	449.3	98.5 <b>s</b>	547.8 <b>s</b>	37.5 <b>s</b>	0.0	0.0	0.0
Bowen-Surat	5.3	5.3	10.6	0.7	6.2	0.0	131.4
Canning	0.6	0.0	0.6	0.0	0.0	0.0	0.0
Carnarvon							
Barrow Island	100.8	0.0	100.8	7.0	0.0	0.0	539.5
North West Shelf	1 746.7 <b>s</b>	1 403.8	3 150.5 <b>s</b>	215.4 <b>s</b>	564.3	0.0	5 435.0
Other	1 838.6 <b>s</b>	44.8	1 883.4 <b>s</b>	128.8 <b>s</b>	0.0	0.0	329.6
Cooper-Eromanga							
Queensland	202.3	50.2	252.5	17.6	0.0	0.0	0.0
South Australia	205.7	62.6	268.3	18.8	166.9	72.0	1 148.7
Gippsland	908.9	226.2	1 135.1	79.3	554.1	55.8	2 304.9
Otway	0.0	0.6	0.6	0.0	0.0	0.0	42.0
Perth	199.3	0.7	200.0	14.0	0.0	0.0	87.4
Total	5 666.6 <b>s</b>	1 892.6 <b>s</b>	7 559.2 <b>s</b>	516.8 <b>s</b>	1 291.5	127.8	10 135.6
<b>2005-06</b>							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	11.6
Amadeus	53.4	0.0	53.4	0.9	0.0	0.0	493.8
Bonaparte	1 403.0	394.0 <b>s</b>	1 797.0 <b>s</b>	31.0 <b>s</b>	0.0	0.0	0.0
Bowen-Surat	22.8	20.3	43.1	0.8	23.4	0.0	638.7
Canning	2.4	0.0	2.4	0.0	0.0	0.0	0.0
Carnarvon							
Barrow Island	389.6	0.0	389.6	6.8	0.0	0.0	1 172.1
North West Shelf	4 523.9 <b>s</b>	5 264.8	9 788.7 <b>s</b>	168.7 <b>s</b>	2 160.1	0.0	22 946.8
Other	5 854.5 <b>s</b>	202.2	6 056.6 <b>s</b>	104.4 <b>s</b>	0.0	0.0	1 430.3
Cooper-Eromanga							
Queensland	432.2	205.4	637.6	11.1	0.0	0.0	0.0
South Australia	488.6	207.7	696.2	12.2	596.6	269.5	3 734.9
Gippsland	3 686.1	769.8	4 455.9	77.9	1 941.9	186.7	7 087.4
Otway	0.0	2.8	2.8	0.0	0.0	0.0	161.1
Perth	395.4	2.2	397.6	6.9	0.0	0.0	337.6
Total	17 251.0 <b>s</b>	7 069.0 <b>s</b>	24 320.0 <b>s</b>	419.1 <b>s</b>	4 722.0	456.2	38 014.2

<sup>a</sup> Commercial sales plus field and plant usage. p Preliminary. **s** ABARE estimate.  
Sources: Department of Industry, Tourism and Resources, Canberra; ABARE.

## 19 sales of petroleum products, by state marketing area

	NSW <sup>a</sup>	Vic.	QLD	WA	SA	Tas.	NT	Aust.
	ML	ML	ML	ML	ML	ML	ML	ML
<b>September quarter 2006 p</b>								
LPG <sup>b</sup>								
Automotive use <sup>c</sup>	185	239	109	44	54	4	2	638
Total	339	401	199	87	89	19	8	1 142
Automotive gasoline								
Lead replacement petrol	0	0	0	0	0	0	0	0
Premium unleaded	140	92	98	50	28	15	4	427
Regular unleaded	1 250	1 033	896	415	312	97	37	4 040
Other unleaded <sup>d</sup>	118	80	93	20	11	1	0	324
Total	1 509	1 205	1 087	485	351	113	41	4 792
Of which sales to retailers	1 224	914	773	406	267	53	16	3 652
Aviation gasoline	3	4	7	5	1	0	2	23
Aviation turbine fuel	568	303	262	240	48	8	58	1 487
Kerosine	2	1	2	0	0	0	0	6
Heating oil	1	1	0	0	1	1	0	5
Automotive diesel oil	859	657	1 252	891	253	83	138	4 134
Of which sales to retailers	305	274	257	154	64	10	10	1 074
Industrial and marine diesel fuel	2	0	2	0	0	0	0	5
Fuel oil <sup>e</sup>	122	66	23	38	0	6	119	373
Lubricating oil and greases	27	25	31	15	7	2	2	109
Bitumen	36	28	63	23	9	3	1	162
Other products <sup>f</sup>	22	182	19	4	2	0	0	230
Total	3 491	2 872	2 949	1 789	763	235	368	12 467
<b>2005-06</b>								
LPG <sup>b</sup>								
Automotive use <sup>c</sup>	706	1 221	340	167	225	18	5	2 681
Total	1 131	1 610	652	320	357	73	23	4 167
Automotive gasoline								
Lead replacement petrol	1	2	3	3	7	0	0	15
Premium unleaded	610	420	438	196	112	77	14	1 867
Regular unleaded	4 941	4 129	3 546	1 612	1 192	387	124	15 932
Other unleaded <sup>d</sup>	480	335	263	81	46	0	0	1 203
Total	6 032	4 886	4 250	1 892	1 356	464	138	19 018
Of which sales to retailers	4 936	3 717	3 025	1 640	1 049	198	62	14 628
Aviation gasoline	15	14	26	16	5	2	8	86
Aviation turbine fuel	2 124	1 133	1 016	699	196	32	160	5 359
Kerosine	4	3	15	3	1	0	0	27
Heating oil	9	4	2	1	5	6	0	26
Automotive diesel oil	3 558	2 583	4 574	3 231	1 070	350	438	15 804
Of which sales to retailers	1 079	968	856	581	225	32	33	3 775
Industrial and marine diesel fuel	9	2	6	2	0	0	1	19
Fuel oil <sup>e</sup>	525	279	131	176	0	19	457	1 586
Lubricating oil and greases	115	101	126	66	29	8	6	451
Bitumen	237	156	239	99	49	20	5	805
Other products <sup>f</sup>	130	749	75	12	5	0	2	973
Total	13 889	11 519	11 111	6 517	3 074	975	1 238	48 323

<sup>a</sup> Includes Australian Capital Territory. <sup>b</sup> Includes sales for petrochemical feedstock. <sup>c</sup> This is a minimum level and includes only direct sales by the oil industry. The data do not include volumes sold to distributors etc. which are subsequently used or sold for automotive use. <sup>d</sup> Includes proprietary brand and other blends. <sup>e</sup> Excludes refinery fuel. <sup>f</sup> Sales of LPG for petrochemical feedstock are included in LPG sales. <sup>p</sup> Preliminary.  
Source: Department of Industry, Tourism and Resources, Canberra.

## 20 phosphate

	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Production</b>										
Single superphosphate <b>as</b>	kt	1 594	1 309	483	294	479	142	395	246	
<b>Imports</b>										
<b>Quantity</b>										
Phosphate rock										
China	kt	210	86	45	1	60	5	19	1	
Morocco	kt	381	405	179	105	154	0	147	104	
Togo	kt	163	48	0	0	0	48	0	0	
Other	kt	43	116	18	41	25	17	31	18	
Total	kt	797	655	242	147	239	71	198	123	
Phosphates										
Diammonium <b>b</b>	kt	287	202	89	16	33	97	56	0	
Monammonium <b>c</b>	kt	926	528	297	118	95	217	98	50	
High analysis <b>d</b>	kt	232	310	41	19	127	113	51	2	
<b>Value</b>										
Phosphate rock	\$m	49	42	15	9	16	4	13	8	
Phosphates										
Diammonium <b>b</b>	\$m	87	74	27	7	12	35	20	0	
Monammonium <b>c</b>	\$m	286	190	89	41	34	80	35	19	
High analysis <b>d</b>	\$m	50	59	9	3	24	20	11	2	
<b>Prices</b>										
Australia <b>e</b>	A\$/t	16.33	16.17	16.45	16.90	14.90	18.19	14.69	15.02	

**a** Single superphosphate manufactured from imported phosphate rock; P<sub>2</sub>O<sub>5</sub> equivalent: 21 per cent. **b** P<sub>2</sub>O<sub>5</sub> equivalent: 46 per cent. **c** P<sub>2</sub>O<sub>5</sub> equivalent: 50 per cent. **d** P<sub>2</sub>O<sub>5</sub> equivalent: 48 per cent. **e** Average import unit value. **p** Preliminary. **s** ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

## 21 salt

	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Production</b>										
Queensland <b>s</b>	kt	100	320	25	80	80	80	80	na	
Western Australia <b>a</b>	kt	11 574	10 834	3 089	2 591	2 743	2 626	2 875	2 310	
South Australia <b>b</b>	kt	580	609	151	159	160	145 <b>s</b>	145 <b>s</b>	na	
Australia <b>cs</b>	kt	12 254	11 763	3 265	2 830	2 983	2 851	3 100	2 680	
<b>Exports</b>										
<b>Quantity</b>										
Bulk, bagged and table	kt	12 128	10 776	3 223	2 567	2 651	2 638	2 920	2 391	
<b>Value</b>										
Bulk, bagged and table	\$m	226	229	64	52	54	58	65	54	
<b>Prices</b>										
Australia <b>d</b>	A\$/t	18.63	21.29	19.95	20.18	20.45	22.07	22.33	22.73	

**a** Sales. **b** Six monthly reporting for South Australia. **c** Excludes Victoria. **d** Average export unit value. **p** Preliminary. **s** ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

# 22 silver

	Unit	2004-05	2005-06 p	Quarter						
				2004-05		2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Production</b>										
<b>Mine s</b>										
Silver content of all minerals produced										
New South Wales	t	96	96	27	27	23	23	23	25	
Queensland	t	1 971	1 862	491	516	530	444	373	315	
Western Australia	t	67	103	19	22	26	32	23	17	
South Australia	t	34	34	8	10	9	8	7	7	
Tasmania	t	90	86	19	19	21	22	24	21	
Northern Territory	t	44	38	11	11	10	9	7	9	
Australia	t	2 303	2 218	576	605	619	538	456	393	
<b>Refinery</b>										
Refined silver	t	722	655	184	163	164	145	183	141	
<b>Exports</b>										
<b>Quantity</b>										
Refined silver bullion	t	517	482	131	137	124	107	114	95	
<b>Value</b>										
Refined silver <sup>a</sup>	\$m	161	197	40	43	46	42	65	48	
Imports										
<b>Value</b>										
Refined silver bullion	\$m	30	33	1	7	2	9	14	28	
<b>Prices</b>										
World <sup>b</sup>	US\$/oz	695	928	715	707	807	969	1 229	1 170	
Australia <sup>c</sup>	A\$/kg	306	399	299	299	347	420	528	496	

<sup>a</sup> Includes refined bullion, powder, unwrought silver and semi manufactured forms. <sup>b</sup> London Bullion Market Association, fixed rate. <sup>c</sup> Pasmenco Metals, fob/fof Port Pirie. <sup>p</sup> Preliminary. <sup>s</sup> ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; London Bullion Market Association; ABARE.

## 23 tin

	Unit	2004-05	2005-06 <sup>p</sup>	Quarter						
				2004-05		2005-06 <sup>p</sup>			2006-07 <sup>p</sup>	
				June	Sep.	Dec.	Mar.	June	Sep.	
<b>Production</b>										
<b>Mine</b>										
Tin content of all minerals										
New South Wales <sup>s</sup>	t	50	0	0	0	0	0	0		
Queensland <sup>s</sup>	t	0	282	0	0	0	69	213		
Western Australia <sup>s</sup>	t	305	590	89	146	166	161	117		
Tasmania	t	1 700	933	734	866	67	0	0		
Australia <sup>s</sup>	t	2 055	1 805	823	1 012	233	230	330		
<b>Smelter and refinery</b>										
Refined tin (primary) <sup>s</sup>	t	445	736	123	175	192	206	163		
<b>Domestic despatches <sup>s</sup></b>										
Tin concentrate	t	408	788	119	195	223	214	156		
Tin content	t	305	590	89	146	166	161	117		
<b>Exports</b>										
<b>Quantity</b>										
Tin concentrate										
Malaysia	t	1 676	2 140	1 402	1 678	383	0	79		
Thailand	t	0	6	0	0	0	6	0		
Other	t	0	40	0	0	40	0	0		
Total	t	1 676	2 186	1 402	1 678	423	6	79		
Refined tin										
Malaysia	t	585	371	0	45	23	47	255		
Other	t	11	25	3	10	5	4	5		
Total	t	596	395	3	55	28	52	260		
Tin content of primary materials exported <sup>bs</sup>										
	t	1 529	1 556	797	947	241	55	313		
<b>Value</b>										
Tin concentrate	\$m	8	9	6	7	2	0	0		
Refined tin	\$m	1	3	0	0	0	0	2		
Total	\$m	8	12	6	7	2	0	2		
<b>Imports</b>										
<b>Quantity</b>										
Refined tin	t	718	618	152	191	139	184	105		
<b>Value</b>										
Refined tin	\$m	8	6	2	2	1	2	1		
<b>Prices</b>										
LME <sup>c</sup>	US\$/t	8 491	7 403	7 962	7 047	6 433	7 602	8 529		

<sup>a</sup> Primary and secondary. <sup>b</sup> Tin content of tin ores and concentrates and refined tin. <sup>c</sup> LME official close. <sup>p</sup> Preliminary. <sup>s</sup> ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; ABARE.

## 24 titanium and zircon minerals

	Unit	2004-05	2005-06 p	Quarter					
				2004-05	2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.
<b>Production</b>									
Ilmenite concentrate									
New South Wales s	kt	0	54	0	0	0	27	27	43
Queensland s	kt	142	165	41	48	35	38	44	51
Western Australia	kt	1 851	1 953	461	493	462	494	504	542
Australia s	kt	1 993	2 172	502	541	497	559	575	636
Leucoxene concentrate									
New South Wales s	kt	0	13	0	0	0	0	13	10
Western Australia	kt	68	66	15	20	17	12	17	31
Australia s	kt	68	79	15	20	17	12	30	44
Rutile concentrate									
Victoria	kt	0	0	0	0	0	0	0	19
Queensland s	kt	68	70	21	21	14	19	16	21
Western Australia	kt	106	111	26	26	28	25	31	52
Australia s	kt	174	181	46	47	42	44	48	92
Synthetic rutile s									
Western Australia	kt	751	713	195	195	178	184	156	196
Titanium dioxide pigment s									
	kt	204	208	50	52	53	53	51	49
Zircon concentrate									
Victoria	kt	0	0	0	0	0	0	0	0
Queensland s	kt	49	52	15	17	10	13	12	15
Western Australia	kt	383	388	95	91	97	97	103	117
Australia s	kt	432	440	110	107	107	111	114	132
<b>Exports</b>									
<b>Quantity</b>									
Ilmenite concentrate a	kt	633	722	146	191	208	20	303	270
Leucoxene concentrate	kt	93	86	34	27	29	2	28	28
Rutile concentrate s	kt	158	169	44	44	40	41	43	67
Synthetic rutile s	kt	517	473	137	135	118	124	97	140
Titanium dioxide pigment	kt	175	177	45	41	46	41	49	44
Zircon concentrate s	kt	428	435	109	106	106	110	113	131
<b>Value</b>									
Ilmenite concentrate a	\$m	63	76	14	19	22	2	33	31
Leucoxene concentrate	\$m	25	25	9	8	8	2	6	11
Rutile concentrate s	\$m	114	138	35	35	33	34	36	56
Synthetic rutile s	\$m	306	321	90	89	80	85	67	97
Titanium dioxide pigment	\$m	422	441	109	100	116	104	121	108
Zircon concentrate s	\$m	319	396	90	92	95	107	102	118
<b>Prices b</b>									
Ilmenite concentrate									
Bulk	A\$/t	99	106	96	100	108	108	108	116
Leucoxene concentrate									
Bulk	A\$/t	208	226	209	227	252	na	204	348
Bagged	A\$/t	529	537	700	697	378	693	666	740
Rutile concentrate									
Bagged	A\$/t	771	897	859	864	885	902	933	907
Titanium dioxide pigment									
	A\$/t	2 412	2 486	2 409	2 438	2 505	2 507	2 490	2 473
Zircon concentrate									
All grades - bagged	A\$/t	903	1 055	987	1 034	1 064	1 029	1 113	1 130

a Bulk and bagged before January 1992; bulk only thereafter. b Average export unit value. p Preliminary. s ABARE estimate. na Not available.  
Sources: Australian Bureau of Statistics, Canberra; ABARE.

## 25 uranium

	Unit	2004-05	2005-06 p	Quarter					
				2004-05	2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.
<b>Production</b>									
<b>Mine</b>									
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	t	10 964	9 974	2 590	2 924	2 922	2 486	1 642	2 116
Uranium (U content)									
South Australia	t	4 596	4 062	1 136	1 131	1 116	928	887	859
Northern Territory	t	4 701	4 396	1 060	1 348	1 362	1 180	505	935
Australia	t	9 297	8 458	2 196	2 479	2 478	2 108	1 392	1 794
<b>Exports <sup>a</sup></b>									
<b>Quantity</b>									
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	t	11 249	10 253	2 062	3 100	3 353	2 040	1 760	1 856
<b>Value</b>									
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	\$m	475	546	92	154	178	99	115	125
<b>Prices</b>									
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )									
Industry spot <sup>b</sup>	US\$/lb	22.20	36.79	27.33	30.32	34.67	38.83	43.33	50.00
Australia <sup>c</sup>	A\$/kg	42.24	53.24	44.66	49.79	52.99	48.42	65.37	67.40

<sup>a</sup> Country details not available. <sup>b</sup> Average of weekly restricted spot price, published by The Ux Consulting Company. <sup>c</sup> Average export unit value. <sup>p</sup> Preliminary.  
Sources: Australian Bureau of Statistics, Canberra; The Ux Consulting Company; ABARE.

## 26 zinc

	Unit	2004-05	2005-06 p	Quarter					
				2004-05	2005-06 p			2006-07 p	
				June	Sep.	Dec.	Mar.	June	Sep.
<b>Production</b>									
<b>Mine s</b>									
Zinc ore and concentrates	kt	2 506	2 564	638	655	629	646	634	607
Zinc content of all minerals produced									
New South Wales	kt	205	178	49	54	39	42	44	42
Queensland	kt	848	858	221	221	218	205	214	205
Western Australia	kt	47	113	16	18	22	40	32	22
Tasmania	kt	95	89	22	21	22	23	23	22
Northern Territory	kt	157	144	39	42	36	36	30	34
Australia	kt	1 352	1 382	347	356	338	346	343	326
<b>Smelter and refinery</b>									
Refined zinc (primary)	kt	464	446	108	117	115	101	113	121
<b>Domestic despatches</b>									
Refined zinc	kt	79	78	19	21	18	19	21	21
<b>Exports</b>									
<b>Quantity</b>									
Zinc concentrates									
Belgium-Luxembourg	kt	92	10	13	10	0	0	0	13
China	kt	289	198	51	50	74	37	38	70
Germany	kt	13	30	0	0	15	5	10	0
Japan	kt	343	375	104	64	131	102	78	115
Korea, Rep. of	kt	565	504	137	122	152	97	134	64
Netherlands	kt	392	384	93	87	87	102	108	89
Spain	kt	96	120	39	40	31	40	10	55
United Kingdom	kt	0	0	0	0	0	0	0	0
United States	kt	26	0	0	0	0	0	0	0
Other	kt	139	201	20	34	68	29	70	44
Total	kt	1 953	1 822	458	406	556	412	448	450
Refined zinc									
Chinese Taipei	kt	51	77	21	21	18	18	20	16
Hong Kong, China	kt	144	127	39	35	35	23	34	37
Indonesia	kt	18	11	5	3	3	2	4	5
Malaysia	kt	69	32	27	1	24	4	3	4
New Zealand	kt	11	13	3	2	3	4	4	2
Thailand	kt	6	4	2	1	1	1	2	2
United States	kt	0	10	0	0	0	0	10	0
Other	kt	97	114	11	24	36	30	24	16
Total	kt	397	388	108	87	119	81	100	83
Zinc content of all primary materials exported <b>as</b>									
	kt	1 427	1 329	349	297	402	295	335	309
<b>Value</b>									
Zinc concentrates	\$m	852	1 542	219	206	335	387	614	584
Refined zinc	\$m	614	998	191	151	234	223	390	361
Total	\$m	1 466	2 540	410	357	570	610	1 004	946
<b>Prices</b>									
LME cash <b>b</b>	US\$/t	1 171	2 118	1 273	1 292	1 637	2 000	3 292	3 330
Australia <b>c</b>	A\$/t	1 759	2 874	1 938	1 908	2 255	2 992	4 341	4 675

**a** Zinc content of all ores, concentrates, slags, residues, intermediate products, refined zinc, zinc powders, flakes and dust. **b** LME cash, midday, registered brands, minimum 98 per cent, 25 tonne warrants. **c** EZ Industries, Prime Western, 98.5 per cent. **p** Preliminary. **s** ABARE estimate.  
Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; ABARE.