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australian **mineral statistics**

june quarter 2006

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## 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 state mines departments (or their equivalents), supplemented, where necessary, by data from companies, published company reports and ABARE estimates. Petroleum production and sales data are obtained from Resources Division, 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 acknowledged gratefully.

### *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*

Just over half of Australia's major minerals and energy commodities recorded production increases in 2005-06 compared with 2004-05. Substantial increases in production of minerals and energy commodities occurred for refinery LPG (13 per cent) and refined gold (10 per cent). Smaller increases were recorded for iron, raw steel, bauxite, iron ore and concentrate, alumina and manganese.

Minerals and energy commodities for which production decreased significantly were:

nickel – refined nickel class 2 (30 per cent), intermediate nickel (14 per cent), and nickel refined class 1 and nickel mine production (both 10 per cent) – and petroleum products – automotive diesel (21 per cent), other petroleum refinery products (11 per cent), crude oil and condensate (9 per cent) and automotive gasoline. Smaller decreases occurred for diamonds, refined silver, lead bullion and uranium.

## *exports*

Australia's export earnings from mineral resources rose to a record \$90.5 billion in 2005-06, an increase of nearly \$22 billion or 32 per cent. This strong performance reflects higher export prices across almost 85 per cent of all minerals and energy commodities exported, along with increased export volumes for just over half.

The commodities that recorded the largest increases in export earnings in 2005-06 were:

coking coal, up \$6318 million (59 per cent) to \$17076 million; iron ore and pellets, up \$4391 million (54 per cent) to \$12 511 million; and copper, up \$2444 million (79 per cent) to \$5526 million.

Other commodities that recorded significant increases in export earnings in 2005-06 were: refined gold, up \$1596 million (29 per cent) to \$7119 million; LNG, up \$1148 million (36 per cent) to \$4347 million; zinc, up \$1051 million (72 per cent) to \$2517 million; aluminium, up \$1026 million (28 per cent) to \$4752 million; alumina, up \$863 million (20 per cent) to \$5246 million; and steaming coal, up \$857 million (14 per cent) to \$7193 million.

Other commodities that recorded increases during the year were petroleum refinery products, crude oil, lead, and refinery LPG.

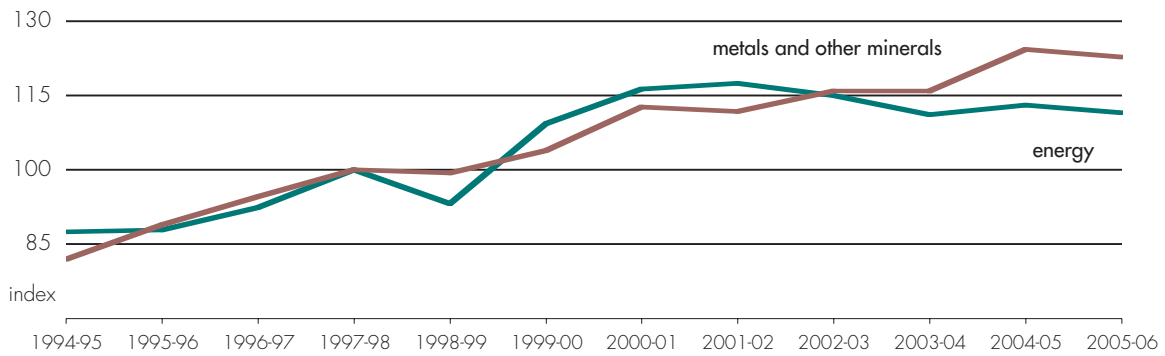
The index of export prices of Australian minerals resources (export unit returns) rose by a further 32 per cent in 2005-06 compared with 2004-05. Prices for energy minerals rose by 36 per cent, while metals and related minerals prices rose by 29 per cent. The increase

in the index in 2005-06 mainly reflects substantial increases in world prices for most major minerals and energy commodities.

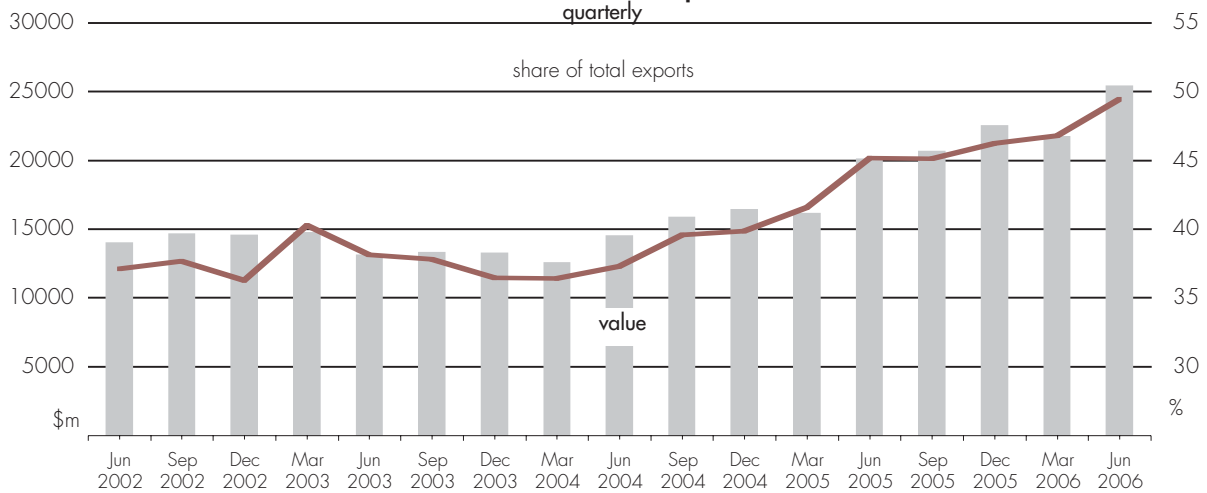
Revised forecasts of minerals production, exports and prices for 2006-07, and analysis of key factors affecting the outlook for minerals and energy markets and the Australian industries, will be available in the next issue of Australian Commodities, to be released electronically on 25 September 2006.

resource sector indicators

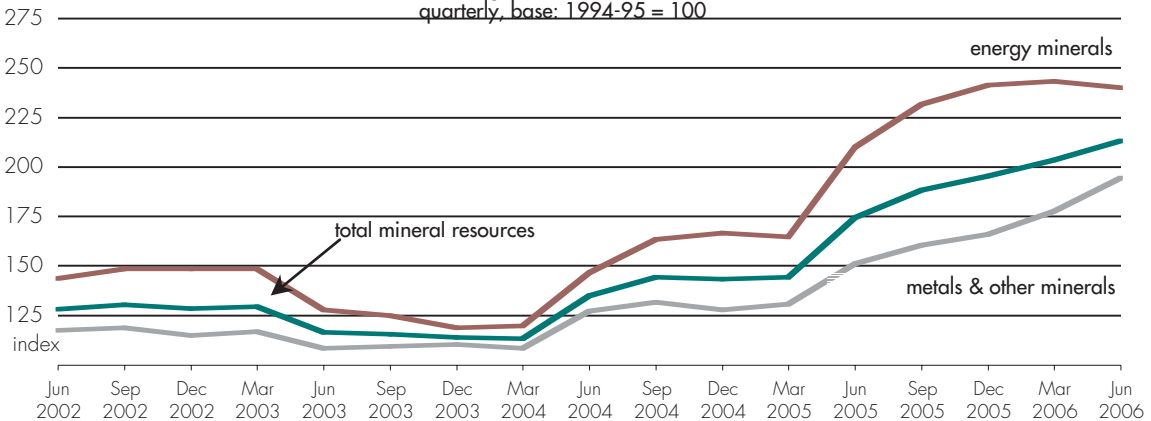
**mine production – Australia**  
base: 1997-98 = 100



**mineral resources exports**  
quarterly



**export unit returns**  
quarterly, base: 1994-95 = 100



## production summary

	Unit	2004-05	2005-06 p	Quarter					
				2004-05		2005-06 p			
				Mar.	June	Sep.	Dec.	Mar.	June
Bauxite	kt	57 648	60 874	14 743	14 347	14 848	16 021	14 636	15 370
Alumina	kt	17 161	17 826	4 339	4 462	4 433	4 470	4 432	4 492
Aluminium (ingot metal)	kt	1 890	1 912	461	475	485	482	469	476
Coal									
Black, raw	Mt	392	397	94	101	102	101	93	101
Black, salable	Mt	305	305	73	79	78	78	72	77
Brown <b>as</b>	Mt	71	71	na	na	na	na	na	na
Copper									
Mine <b>bs</b>	kt	905	920	224	230	235	241	215	229
Blister <b>c</b>	kt	434	404	104	100	102	106	94	102
Refined <b>s</b>	kt	479	461	122	111	117	121	108	115
Diamonds	'000 ct	32 446	25 354	8 633	9 474	6 048	6 523	5 244	7 539
Gold									
Mine <b>bs</b>	t	266	250	67	66	64	66	60	60
Refined	t	345	380	87	84	82	88	99	110
Iron									
Iron ore and concentrate <b>s</b>	kt	251 918	263 815	61 478	66 965	66 133	67 220	60 569	69 894
Iron and steel <b>s</b>	Mt	7 556	7 941	1 889	1 889	2 028	1 982	1 941	1 990
Lead									
Mine <b>bs</b>	kt	682	761	181	174	211	201	180	170
Bullion <b>c</b>	kt	153	141	39	41	42	37	34	27
Refined	kt	234	234	60	58	49	62	60	63
Manganese <b>s</b>	kt	3 606	3 738	833	1 022	864	971	918	984
Nickel									
Mine <b>bs</b>	kt	192	172	48	43	45	50	37	40
Intermediate	kt	115	99	30	29	27	28	20	24
Refined, class 1	kt	116	104	29	28	27	29	24	24
Refined, class 2	kt	10	7	2	3	2	2	2	1
Petroleum, field									
Crude oil and condensate	ML	27 311	23 750	5 826	7 004	6 584	6 333	5 051	5 179
LPG (naturally occurring)	ML	4 628	4 722	1 099	1 171	1 300	1 158	1 056	1 208
Natural gas	Mm <sup>3</sup>	37 267	38 014	8 469	9 442	9 921	9 297	8 591	10 205
Petroleum, refinery									
LPG	ML	995	1 125	301	288	272	285	298	270
Automotive gasoline	ML	17 913	16 528	4 395	4 307	4 202	4 176	4 090	4 059
Aviation turbine fuel	ML	5 325	5 216	1 354	1 216	1 294	1 430	1 257	1 235
Automotive diesel oil	ML	12 822	10 154	3 113	3 017	2 919	2 664	2 345	2 226
Other	ML	3 659	3 252	1 009	1 067	838	756	845	813
Total	ML	40 202	36 274	10 173	9 894	9 524	9 311	8 834	8 605
Salt <b>s</b>	kt	12 254	11 763	3 301	3 265	2 830	2 983	2 851	3 100
Silver									
Mine <b>bs</b>	t	2 303	2 218	617	576	605	619	538	456
Refined	t	722	655	190	184	163	164	145	183
Tin									
Mine <b>bs</b>	t	2 055	2 176	645	823	1 012	339	403	423
Refined <b>s</b>	t	445	736	104	123	175	192	206	163
Titanium									
Ilmenite concentrate <b>s</b>	kt	2 006	2 145	494	497	545	498	584	519
Leucoxene concentrate	kt	46	62	10	12	16	17	15	14
Rutile concentrate <b>s</b>	kt	174	179	42	46	47	42	44	47
Synthetic rutile <b>s</b>	kt	751	751	184	195	195	178	183	195
Titanium dioxide pigment <b>s</b>	kt	203	205	50	51	51	51	51	53
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	t	10 964	10 154	2 787	2 590	2 924	2 922	2 576	1 732
Zinc									
Mine <b>bs</b>	kt	1 352	1 382	326	347	356	338	346	343
Refined	kt	464	446	117	108	117	115	101	113
Zircon concentrate	kt	432	443	102	110	107	107	113	115

**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	117.5	115.0	111.1	113.1	111.5
Metals and other minerals	99.4	103.9	112.7	111.7	115.8	115.9	124.3	122.8
Total minerals	95.8	106.9	114.8	115.0	115.5	113.5	118.8	117.3

<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			
				Mar.	June	Sep.	Dec.	Mar.	June
Bauxite	kt	4 900	5 645	1 252	1 165	1 401	1 524	1 253	1 467
Alumina <sup>a</sup>	kt	14 073	14 466	3 334	3 722	3 470	3 832	3 548	3 616
Aluminium (ingot metal)	kt	1 512	1 616	338	412	411	423	382	399
Coal, black									
Metallurgical	Mt	124.92	120.56	31.21	33.30	29.99	30.42	29.60	30.54
Thermal	Mt	106.40	110.67	26.28	26.61	28.64	26.12	26.78	29.14
Copper <sup>bs</sup>	kt	701	793	177	191	181	235	195	182
Diamonds <sup>cs</sup>	'000 ct	32 515	27 751	8 658	9 474	6 048	6 523	7 585	7 595
Gold <sup>bs</sup>	t	309.24	293.91	75.49	78.46	79.19	73.47	70.46	70.79
Iron									
Iron ore and pellets	kt	228 456	239 518	56 445	59 355	58 856	64 657	54 064	61 941
Iron and steel	kt	2 338	2 428	562	562	570	570	620	668
Lead <sup>bs</sup>	kt	782	756	200	194	179	243	154	179
Manganese ore and concentrate	kt	3 128	3 216	696	914	466	854	640	1 256
Nickel <sup>ds</sup>	kt	215	193	56	52	51	52	44	45
Petroleum									
Crude oil and other refinery feedstock	ML	15 731	13 025	3 770	4 028	4 166	3 607	2 867	2 386
LNG	Mt	10.59	11.92	2.65	2.65	2.93	2.98	2.86	3.15
LPG	ML	2 844	2 800	796	659	985	556	602	657
Refinery products	ML	1 847	2 091	618	338	435	583	756	318
Salt	kt	12 128	10 776	3 047	3 223	2 567	2 651	2 638	2 920
Tin <sup>b</sup>	t	1 529	1 554	588	797	947	241	55	312
Titanium									
Ilmenite concentrate	kt	633	722	169	146	191	208	20	303
Leucoxene concentrate	kt	93	86	2	34	27	29	2	28
Rutile concentrate	kt	158	170	40	44	44	40	41	44
Synthetic rutile <sup>s</sup>	kt	520	519	126	138	136	120	128	134
Titanium dioxide pigment	kt	175	178	42	45	41	46	41	49
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	t	11 249	10 253	3 845	2 062	3 100	3 353	2 040	1 760
Zinc <sup>b</sup>	kt	1 427	1 342	396	349	297	402	299	344
Zircon concentrate	kt	428	438	101	109	106	106	112	114

continued

3 exports summary *continued*

	Unit	2004-05	2005-06 p	Quarter					
				2004-05		2005-06 p			
				Mar.	June	Sep.	Dec.	Mar.	June
Bauxite	\$m	123	127	25	31	29	32	30	36
Alumina <b>a</b>	\$m	4 383	5 246	1 013	1 196	1 135	1 304	1 321	1 486
Aluminium (ingot metal)	\$m	3 726	4 752	842	1 017	1 003	1 162	1 226	1 360
Coal, black									
Metallurgical	\$m	10 758	17 076	2 325	3 963	4 106	4 472	4 295	4 204
Thermal	\$m	6 336	7 193	1 563	1 685	1 905	1 743	1 713	1 832
Copper <b>e</b>	\$m	3 082	5 526	784	917	955	1 432	1 344	1 795
Diamonds <b>cs</b>	\$m	650	626	183	184	177	134	157	158
Gems, other than diamonds	\$m	61	59	18	19	17	11	20	11
Gold, refined	\$m	5 523	7 119	1 326	1 380	1 445	1 541	1 666	2 467
Iron									
Iron ore and pellets	\$m	8 120	12 511	1 728	2 929	3 001	3 413	2 872	3 226
Iron and steel	\$m	2 031	1 674	479	460	403	410	414	446
Lead <b>e</b>	\$m	1 041	1 297	280	274	257	394	293	353
Manganese ore and concentrate	\$m	473	424	111	159	73	125	82	145
Nickel <b>es</b>	\$m	3 685	3 409	949	962	859	770	755	1 025
Petroleum									
Crude oil and other refinery feedstock	\$m	6 330	6 639	1 478	1 725	2 032	1 720	1 502	1 385
LNG	\$m	3 199	4 347	759	869	966	1 099	1 060	1 222
LPG	\$m	804	1 000	212	200	293	217	254	235
Refinery products	\$m	844	1 190	269	172	258	318	418	196
Salt	\$m	226	229	58	64	52	54	58	65
Silver, refined	\$m	161	197	41	40	43	46	42	65
Tin <b>e</b>	\$m	8	12	1	6	7	2	0	2
Titanium									
Ilmenite concentrate	\$m	63	76	16	14	19	22	2	33
Leucoxene concentrate	\$m	25	25	1	9	8	8	2	7
Rutile concentrate	\$m	114	139	28	35	35	33	34	37
Synthetic rutile <b>s</b>	\$m	308	353	73	91	90	81	89	93
Titanium dioxide pigment	\$m	422	442	98	109	100	116	104	123
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	\$m	475	546	149	92	154	178	99	115
Zinc <b>e</b>	\$m	1 466	2 517	428	410	357	570	584	1 006
Zircon concentrate	\$m	319	396	79	90	92	95	107	103
Other mineral resources <b>f</b>	\$m	3 699	5 339	837	961	763	1 135	1 268	2 172
<b>Total mineral resources <b>g</b></b>	\$m	68 457	90 490	16 155	20 064	20 636	22 640	21 811	25 403
<b>Total merchandise</b>	\$m	127 903	153 946	29 417	35 513	36 347	39 077	36 536	41 986
<b>Total goods and services</b>	\$m	164 390	192 149	38 812	44 397	45 709	48 672	46 381	51 387

**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			
	Sep.	Dec.	Mar.	June	Sep.	Dec.	Mar.	June
Energy minerals	163.3	166.7	164.5	210.1	231.5	241.3	243.4	242.7
Metals and other minerals	131.8	127.8	131.1	151.3	160.4	166.1	177.7	194.6
Total mineral resources	144.4	143.3	144.5	174.5	188.2	195.6	203.6	214.1

**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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Quantity</b>									
Diamonds a	'000 ct	2 168	4 098	626	633	720	1 569	891	918
Iron ore	kt	4 648	5 026	999	1 138	1 365	1 453	740	1 467
Ingot steel	kt	2 116	2 192	602	637	566	564	532	530
Ferroalloys	kt	60	77	16	15	14	16	12	35
Petroleum									
Crude oil and other refinery feedstock	ML	26 054	24 486	6 502	6 263	5 741	5 989	6 683	6 073
Refinery products	ML	11 188	16 217	2 537	3 288	2 831	3 563	3 973	5 850
Phosphate rock	kt	797	661	193	242	147	239	71	203
<b>Value</b>									
Diamonds a	\$m	347	403	88	87	94	106	98	106
Gold b	\$m	2 462	4 800	556	740	765	732	1 358	1 946
Iron ore	\$m	145	222	33	48	59	48	48	67
Ingot steel	\$m	2 041	2 076	570	628	584	529	511	452
Ferroalloys	\$m	137	123	38	47	39	30	22	31
Petroleum									
Crude oil and other refinery feedstock	\$m	9 995	12 856	2 379	2 691	2 797	2 956	3 517	3 586
Refinery products	\$m	5 123	8 781	1 069	1 693	1 665	2 003	2 212	2 901
Phosphate rock	\$m	49	43	11	15	9	16	4	14
Silver	\$m	30	33	6	1	7	2	9	14
Other	\$m	544	635	167	140	179	120	153	183
Total	\$m	20 872	29 971	4 915	6 090	6 197	6 542	7 932	9 300

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	2003-04	2004-05	Quarter					
				2004-05			2005-06 p		
				Dec.	Mar.	June	Sep.	Dec.	Mar.
<b>Energy</b>									
Petroleum									
Onshore	\$m	230.5	270.1	75.1	52.5	68.8	79.8	98.6	82.0
Offshore	\$m	713.6	774.6	211.5	216.7	209.7	202.2	227.9	191.6
Total	\$m	944.1	1 044.7	286.6	269.2	278.5	282.0	326.5	273.6
Coal	\$m	81.5	126.8	32.0	29.8	37.6	32.2	46.0	41.5
Uranium	\$m	10.6	20.7	4.6	3.2	6.8	11.9	15.8	10.1
Total energy	\$m	1 036.2	1 192.2	323.2	302.2	322.9	326.1	388.3	325.2
<b>Metals and other minerals</b>									
Copper	\$m	37.9	71.4	18.3	15.2	22.4	31.5	36.7	24.6
Diamonds	\$m	25.9	23.7	7.6	3.6	5.6	6.3	7.3	4.4
Gold	\$m	397.1	391.7	96.8	81.9	103.1	100.0	99.1	90.0
Iron ore	\$m	63.7	137.9	35.1	27.3	45.7	36.3	42.9	32.4
Mineral sands	\$m	23.8	27.6	5.9	6.7	7.0	8.1	8.3	5.6
Nickel, cobalt	\$m	84.2	158.6	40.4	43.3	44.1	40.0	40.7	29.3
Silver, lead and zinc	\$m	29.8	31.3	7.9	7.0	8.6	13.1	17.8	14.8
Other	\$m	32.2	38.7	12.2	7.8	9.8	12.6	13.0	11.0
Total metals and other minerals	\$m	694.6	880.9	224.2	192.8	246.3	247.9	265.8	212.1
<b>Total expenditure</b>	\$m	1 730.7	2 073.1	547.4	495.0	569.2	574.0	654.1	537.3

Sources: Australian Bureau of Statistics, Canberra; ABARE.

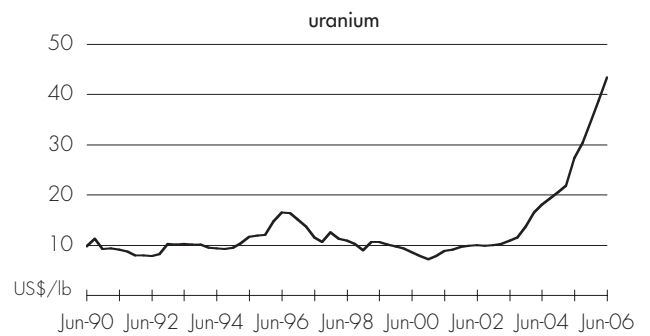
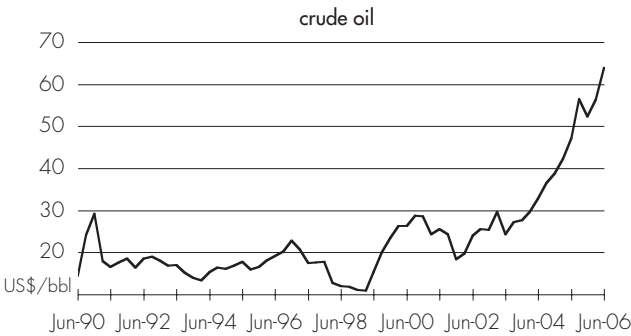
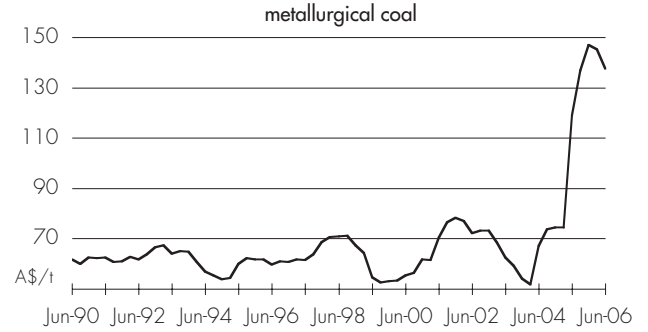
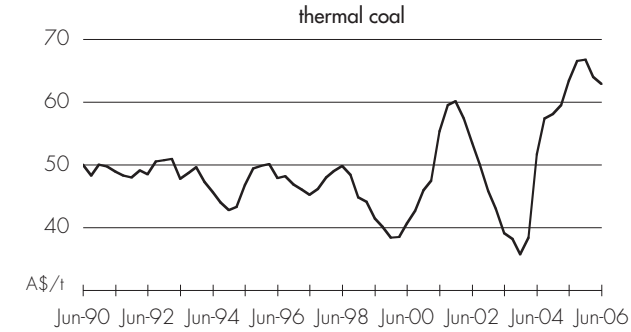
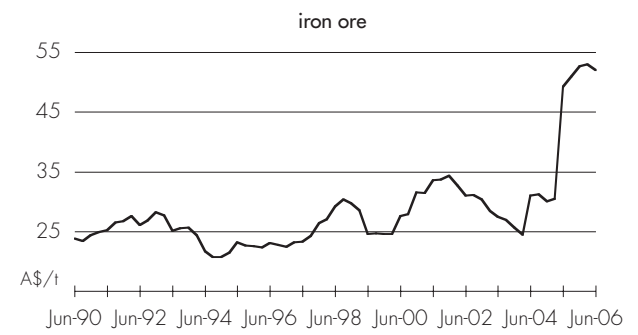
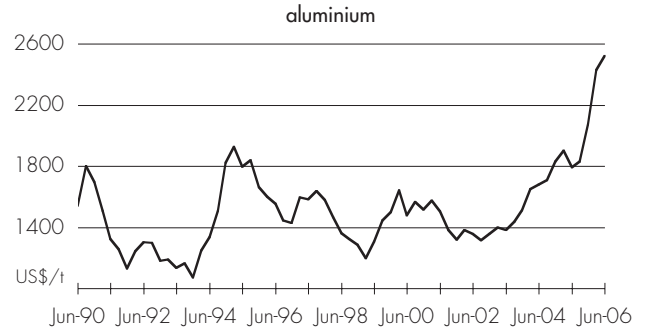
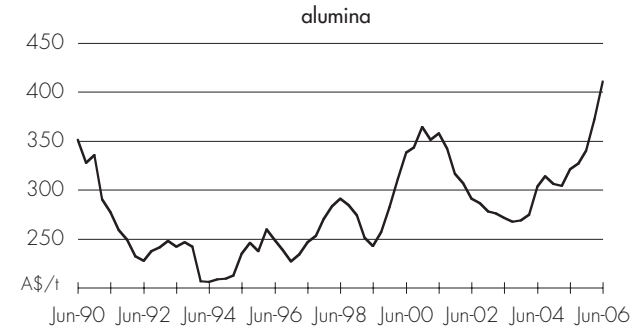
## 7 mineral resources prices

	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
2003-04	278.60	1 568.40	389.28	27.09	40.98	58.26	29.33	14.90
2004-05	311.47	1 806.91	422.49	35.54	59.55	86.12	41.18	22.20
2005-06	362.66	2 243.62	526.95	52.24	65.00	141.64	57.25	36.79
<b>2005</b>								
January	308.27	1 834.43	424.08	30.65	58.95	74.58	37.75	21.00
February	295.28	1 882.85	423.43	30.42	60.10	73.59	42.09	21.75
March	308.44	1 982.36	434.35	30.32	59.51	75.24	47.17	22.50
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	52.17	62.94	142.91	56.26	37.50
February	372.59	2 455.33	555.52	52.71	64.15	143.32	56.24	38.50
March	382.05	2 429.13	557.22	53.86	64.80	148.95	56.33	40.50
April	407.03	2 621.58	611.85	52.33	63.13	140.53	63.19	41.50
May	402.30	2 861.48	676.77	51.91	62.84	130.88	64.98	43.00
June	426.06	2 477.34	597.90	51.64	62.68	141.65	63.45	45.50
	<b>copper</b> (high grade) LME cash US\$/t	<b>lead</b> LME cash US\$/t	<b>zinc</b> (high grade) LME cash US\$/t	<b>silver d</b> London fix US\$/troy oz	<b>nickel</b> LME cash US\$/t	<b>ilmenite e</b> avg export unit value A\$/t	<b>rutile f</b> avg export unit value A\$/t	<b>zircon g</b> avg export unit value A\$/t
2003-04	2 267.35	700.06	961.97	579.25	12 263.74	104.56	647.39	585.76
2004-05	3 149.79	964.08	1 170.95	694.94	14 971.10	99.29	717.20	746.27
2005-06	5 062.00	1 061.35	2 117.81	927.82	15 512.99	105.92	816.57	902.97
<b>2005</b>								
January	3 170.00	953.15	1 246.38	660.93	14 505.00	81.31	784.87	906.52
February	3 253.70	977.55	1 326.18	703.00	15 349.50	112.22	727.59	953.92
March	3 379.60	1 005.83	1 377.69	725.61	16 190.00	79.81	778.65	952.43
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	902.07	1 092.53

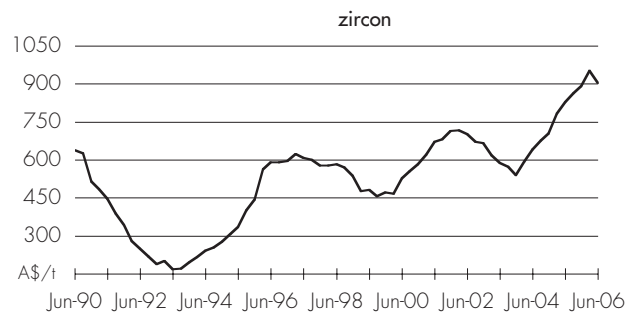
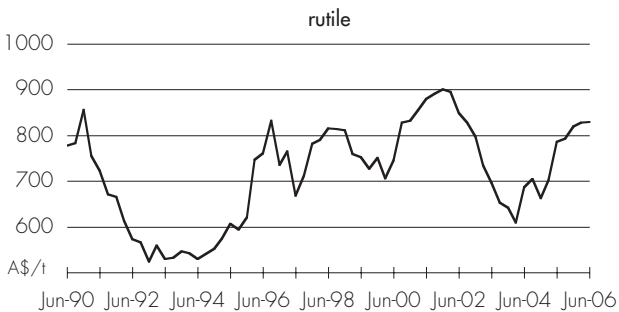
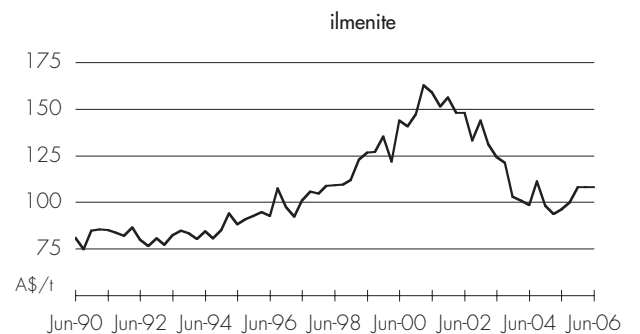
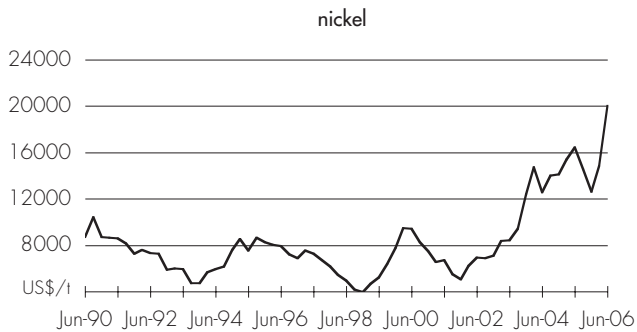
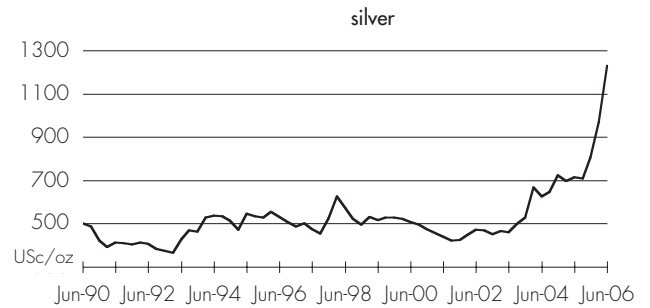
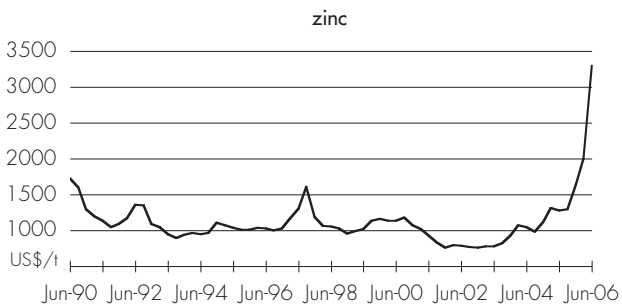
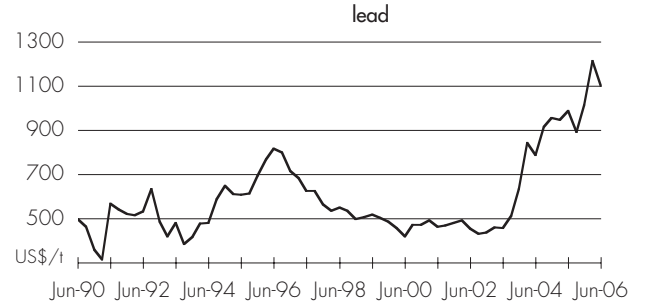
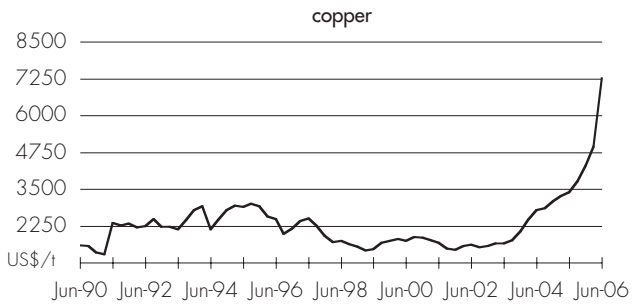
**a** Lump and fines. **b** US Department of Energy, *Energy Information Administration*. **c** Average of weekly restricted spot price published by The Ux Consulting Company. **d** London fix rate from May 2001; Handy and Harman, commercial bar, minimum 99.9 per cent prior to May 2001. **e** Bulk grade 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 june quarter 2006



mineral resources prices, ended june 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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine</b>									
Bauxite									
Queensland	kt	13 770	16 158	3 475	3 716	3 815	4 598	3 890	3 855
Western Australia	kt	38 070	39 284	9 798	9 212	9 653	9 833	9 583	10 215
Northern Territory	kt	5 808	5 432	1 470	1 419	1 380	1 590	1 163	1 300
Australia	kt	57 648	60 874	14 743	14 347	14 848	16 021	14 636	15 370
Alumina content	kt	21 251	22 728	5 421	5 358	5 520	6 103	5 437	5 669
<b>Smelter and refinery</b>									
Alumina	kt	17 161	17 826	4 339	4 462	4 433	4 470	4 432	4 492
Aluminium (ingot metal)	kt	1 890	1 912	461	475	485	482	469	476
<b>Exports</b>									
<b>Quantity</b>									
Bauxite a	kt	4 900	5 645	1 252	1 165	1 401	1 524	1 253	1 467
Alumina bc	kt	14 073	14 466	3 334	3 722	3 470	3 832	3 548	3 616
Aluminium (ingot metal)									
Chinese Taipei	kt	170	186	27	45	42	45	48	51
Indonesia	kt	67	93	20	19	24	25	24	20
Japan	kt	552	542	126	150	154	151	110	128
Korea, Rep. of	kt	207	239	43	65	53	61	62	62
Malaysia	kt	74	87	16	20	22	23	21	21
Thailand	kt	162	192	46	48	46	46	52	48
Other	kt	281	276	59	65	70	72	65	69
Total	kt	1 512	1 616	338	412	411	423	382	399
<b>Value</b>									
Bauxite a	\$m	123	127	25	31	29	32	30	36
Alumina bc	\$m	4 383	5 246	1 013	1 196	1 135	1 304	1 321	1 486
Aluminium (ingot metal)	\$m	3 726	4 752	842	1 017	1 003	1 162	1 226	1 360
<b>Imports</b>									
<b>Quantity</b>									
Bauxite	kt	10	11	5	2	2	3	2	5
Alumina b	kt	1	1	0	0	0	0	0	0
Aluminium (ingot metal)	kt	6	6	1	1	1	2	2	1
<b>Value</b>									
Bauxite	\$m	2	3	1	0	0	1	1	1
Alumina b	\$m	1	2	0	0	0	0	0	0
Aluminium (ingot metal)	\$m	17	20	2	4	4	4	7	5
<b>Prices</b>									
Alumina d	A\$/t	311	363	304	321	327	340	372	411
Aluminium									
LME cash e	US\$/t	1 807	2 244	1 901	1 790	1 830	2 072	2 420	2 652
Australia d	A\$/t	2 464	2 941	2 488	2 469	2 440	2 746	3 209	3 409

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.

## 9 coal

	Unit	2004-05	2005-06 p	Quarter					
				2004-05		2005-06 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine</b>									
Black coal, raw									
Underground	Mt	87.23	86.85	21.12	23.94	22.38	21.79	20.01	22.66
Opencut	Mt	304.36	310.63	73.38	77.25	79.37	79.45	73.24	78.56
New South Wales	Mt	156.31	160.75	35.78	41.06	40.40	41.67	37.70	40.98
Queensland	Mt	224.85	226.29	56.11	57.52	58.75	56.96	52.95	57.63
Western Australia <sup>a</sup>	Mt	6.22	6.22	1.55	1.55	1.55	1.55	1.55	1.55
South Australia <sup>a</sup>	Mt	3.64	3.64	0.91	0.91	0.91	0.91	0.91	0.91
Tasmania <sup>a</sup>	Mt	0.58	0.58	0.14	0.14	0.14	0.14	0.14	0.14
Australia	Mt	391.59	397.47	94.50	101.19	101.75	101.24	93.26	101.22
Black coal, salable									
Underground	Mt	70.10	66.42	16.66	19.62	17.41	16.66	15.29	17.07
Opencut	Mt	234.76	238.52	55.85	59.47	60.70	61.34	56.36	60.13
New South Wales	Mt	122.06	123.24	28.29	32.73	30.63	32.56	28.34	31.71
Queensland	Mt	172.51	171.42	41.65	43.79	44.90	42.87	40.73	42.92
Western Australia <sup>a</sup>	Mt	6.22	6.22	1.55	1.55	1.55	1.55	1.55	1.55
South Australia <sup>a</sup>	Mt	3.64	3.64	0.91	0.91	0.91	0.91	0.91	0.91
Tasmania <sup>a</sup>	Mt	0.42	0.42	0.11	0.11	0.11	0.11	0.11	0.11
Australia	Mt	304.86	304.94	72.52	79.09	78.10	78.00	71.64	77.20
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	3.21	0.76	0.86	1.09	0.74	0.56	0.83
China	Mt	3.73	2.22	0.93	0.97	0.44	0.68	0.93	0.17
Chinese Taipei	Mt	3.51	3.31	1.03	0.87	0.77	0.84	0.79	0.91
European Union	Mt	19.49	19.20	4.41	5.32	4.94	5.20	4.23	4.83
India	Mt	13.41	13.61	2.94	4.00	3.28	3.87	2.96	3.49
Japan	Mt	22.87	23.83	5.71	6.88	5.61	5.82	5.39	7.01
Korea, Rep. of	Mt	8.01	6.57	2.12	1.45	1.83	1.83	1.70	1.21
Other	Mt	6.59	5.40	1.83	1.66	1.18	1.20	1.53	1.49
Total	Mt	80.73	77.35	19.74	22.00	19.14	20.19	18.10	19.93
Metallurgical coal, other <sup>c</sup>									
Chinese Taipei	Mt	3.58	4.40	1.11	1.23	1.48	0.84	1.28	0.80
European Union	Mt	4.76	4.73	0.90	1.28	1.09	1.14	1.20	1.31
India	Mt	4.03	2.79	1.11	0.95	0.79	0.61	0.62	0.76
Japan	Mt	22.09	20.49	6.13	5.17	5.04	4.78	5.56	5.12
Korea, Rep. of	Mt	4.45	1.12	1.09	1.06	1.12	0.00	0.00	0.00
Other	Mt	5.29	9.66	1.14	1.61	1.34	2.86	2.85	2.62
Total	Mt	44.19	43.20	11.47	11.30	10.86	10.23	11.50	10.61
Total coking coal	Mt	124.92	120.56	31.21	33.30	29.99	30.42	29.60	30.54
Thermal coal									
Chinese Taipei	Mt	14.33	13.20	3.91	3.31	3.27	3.05	3.32	3.57
European Union	Mt	3.48	2.30	0.51	0.70	0.84	0.07	0.59	0.80
Hong Kong, China	Mt	0.37	0.08	0.00	0.00	0.00	0.00	0.00	0.08
Japan	Mt	57.28	59.25	14.27	14.41	15.13	15.68	14.19	14.25
Korea, Rep. of	Mt	17.95	20.22	4.39	5.41	5.62	4.61	4.75	5.25
Other	Mt	12.99	15.61	3.20	2.79	3.78	2.72	3.94	5.18
Total	Mt	106.40	110.67	26.28	26.61	28.64	26.12	26.78	29.14

continued

9 coal *continued*

	Unit	2004-05	2005-06 <sup>p</sup>	Quarter					
				2004-05		2005-06 <sup>p</sup>			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Exports</b>									
<b>Quantity</b>									
Other coal	Mt	1.02	1.16	0.37	0.16	0.31	0.34	0.31	0.20
Coke <sup>d</sup>	Mt	na	na	na	na	na	na	na	na
<b>Value</b>									
Metallurgical coal									
High quality	\$m	7 692	12 239	1 624	2 938	2 907	3 302	2 964	3 067
Other quality	\$m	3 067	4 837	701	1 025	1 199	1 170	1 331	1 137
Total metallurgical coal	\$m	10 758	17 076	2 325	3 963	4 106	4 472	4 295	4 204
Thermal coal	\$m	6 336	7 193	1 563	1 685	1 905	1 743	1 713	1 832
Other coal	\$m	50	80	16	11	16	20	23	20
Total coal	\$m	17 145	24 350	3 904	5 659	6 027	6 235	6 031	6 056
Coke	\$m	90	59	23	35	4	5	25	25
<b>Imports</b>									
<b>Quantity</b>									
Coke	Mt	0.02	0.05	0.02	0.01	0.00	0.01	0.02	0.02
<b>Value</b>									
Coke	\$m	0	4	0	0	0	1	1	2
<b>Prices <sup>e</sup></b>									
Metallurgical coal									
High quality	A\$/t	95.28	158.22	82.28	133.55	151.89	163.52	163.78	153.89
Other	A\$/t	69.40	111.95	61.07	90.72	110.44	114.34	115.68	107.17
Thermal coal	A\$/t	59.55	65.00	59.48	63.32	66.52	66.75	63.95	62.89

<sup>a</sup> Quarterly data derived from annual ABARE estimates. <sup>b</sup> Quarterly data not available. <sup>c</sup> 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. <sup>d</sup> Quantity details not available from August 2003. <sup>e</sup> Average export unit value. <sup>p</sup> Preliminary. <sup>s</sup> ABARE estimate. <sup>na</sup> 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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine s</b>									
Copper ore and concentrate	kt	2 672	2 826	674	677	677	698	713	737
Copper content of all minerals produced									
New South Wales a	kt	175	193	45	46	45	50	49	50
Queensland a	kt	408	398	97	101	109	104	90	95
Western Australia a	kt	61	93	18	23	24	25	21	22
South Australia	kt	231	204	57	53	49	54	47	55
Tasmania	kt	29	32	7	7	8	8	8	8
Australia a	kt	905	920	224	230	235	241	215	229
<b>Smelter and refinery</b>									
Blister copper (primary) b	kt	434	404	104	100	102	106	94	102
Refined copper (primary) s	kt	479	461	122	111	117	121	108	115
<b>Exports</b>									
<b>Quantity</b>									
Copper concentrate									
China c	kt	397	586	105	180	67	219	139	161
India	kt	436	501	104	82	147	109	159	85
Japan	kt	353	390	82	122	100	137	66	86
Korea, Rep. of	kt	78	68	27	29	10	16	30	12
Other	kt	61	100	0	0	22	46	10	22
Total	kt	1 326	1 645	319	414	346	528	405	366
Refined copper									
Chinese Taipei	kt	88	76	22	15	17	11	27	21
Indonesia	kt	35	30	10	7	9	12	4	5
Japan	kt	2	6	0	1	1	2	1	2
Singapore	kt	1	7	0	0	4	1	0	3
Thailand	kt	51	65	15	14	16	19	17	13
Other	kt	145	130	40	35	28	34	30	38
Total	kt	322	314	87	73	76	79	79	80
Copper content of all primary materials exported ds	kt	701	793	177	191	181	235	195	182
<b>Value</b>									
Copper concentrate	\$m	1 750	3 410	419	593	575	969	798	1 068
Refined copper	\$m	1 332	2 116	365	325	380	463	546	728
Total	\$m	3 082	5 526	784	917	955	1 432	1 344	1 795
<b>Prices e</b>									
LME cash	US\$/t	3 150	5 062	3 268	3 388	3 754	4 301	4 943	7 251
Australia	A\$/t	4 195	6 842	4 216	4 426	4 974	5 793	6 769	9 832

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>			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
Diamonds									
Northern Territory	'000 ct	0	14	0	0	5	7	0	2
Western Australia	'000 ct	32 446	25 339	8 633	9 474	6 043	6 516	5 244	7 537
Australia	'000 ct	32 446	25 354	8 633	9 474	6 048	6 523	5 244	7 539
<b>Exports</b>									
<b>Quantity</b>									
Diamonds									
Unsorted <sup>s</sup>	'000 ct	32 439	27 623	8 642	9 458	6 020	6 474	7 563	7 567
Sorted									
Gem	'000 ct	72	126	16	16	28	49	21	28
Industrial <sup>a</sup>	'000 ct	4	2	0	0	0	0	1	0
Total <sup>s</sup>	'000 ct	32 515	27 751	8 658	9 474	6 048	6 523	7 585	7 595
<b>Value</b>									
Diamonds									
Unsorted <sup>s</sup>	\$m	531	475	155	154	141	95	117	122
Sorted									
Gem	\$m	119	151	28	29	36	39	40	35
Industrial <sup>a</sup>	\$m	0	0	0	0	0	0	0	0
Total <sup>s</sup>	\$m	650	626	183	184	177	134	157	158
Opals									
Rough	\$m	14	13	4	3	2	2	6	3
Cut and polished	\$m	40	37	12	15	11	7	13	7
Total	\$m	54	50	16	18	12	9	19	10
Sapphires									
Rough	\$m	0	1	0	0	1	0	0	0
Total	\$m	0	1	0	0	1	0	0	0
Other gemstones <sup>b</sup>	\$m	7	8	2	1	4	2	2	1
Total gemstones	\$m	61	59	18	19	17	11	20	11
<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	107	91	148	1 314	84	95
Industrial <sup>a</sup>	'000 ct	16	123	4	6	50	49	16	8
Dust and powder	'000 ct	1 775	2 333	515	535	523	205	790	816
<b>Value</b>									
Diamonds									
Unsorted	\$m	1	1	0	0	0	0	0	0
Sorted									
Gem	\$m	342	398	87	86	93	105	96	104
Industrial <sup>a</sup>	\$m	1	2	0	0	0	0	1	1
Dust and powder	\$m	2	3	1	1	1	0	1	1
Total	\$m	347	403	88	87	94	106	98	106

<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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine s</b>									
Gold content of all minerals produced									
New South Wales	t	29	29	7	7	7	8	6	7
Victoria	t	4	6	1	1	2	2	2	1
Queensland	t	24	22	6	6	6	6	5	5
Western Australia	t	173	165	45	44	42	43	40	41
South Australia	t	5	7	1	1	2	2	2	2
Tasmania	t	10	7	2	2	2	2	2	1
Northern Territory	t	21	14	5	5	4	3	3	3
Australia	t	266	250	67	66	64	66	60	60
<b>Refinery</b>									
Primary									
Australian origin	t	227	209	57	54	53	55	51	49
Overseas origin	t	76	66	18	18	19	16	18	13
Secondary									
Australian origin	t	5	7	1	1	2	1	1	1
Overseas origin	t	38	99	10	10	7	16	29	47
Total	t	345	380	87	84	82	88	99	110
<b>Exports</b>									
<b>Quantity</b>									
Refined and unrefined bullion									
China	t	5	1	2	3	1	0	0	0
Chinese Taipei	t	0	0	0	0	0	0	0	0
Hong Kong, China	t	1	1	1	0	1	0	0	0
India	t	155	127	36	57	50	21	25	30
Japan	t	8	18	2	2	4	10	1	4
Korea, Rep. of	t	13	5	1	1	1	2	1	1
Malaysia	t	4	0	0	1	0	0	0	0
Singapore	t	13	13	2	4	4	4	3	3
Switzerland	t	0	3	0	0	0	1	2	0
Thailand	t	55	33	27	9	12	9	6	6
United Kingdom	t	44	101	0	0	3	26	30	41
Other	t	12	10	5	2	4	1	0	5
Total	t	309	315	75	78	79	73	70	93
<b>Value</b>									
Refined	\$m	5 523	7 119	1 326	1 380	1 445	1 541	1 666	2 467
<b>Imports</b>									
<b>Value</b>									
Refined and unrefined bullion	\$m	2 462	4 800	556	740	765	732	1 358	1 946
<b>Prices</b>									
London AM fix	US\$/oz	422	527	427	427	439	485	554	629
Australia	A\$/oz	562	707	550	557	579	654	753	843

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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Iron ore and concentrate a</b>									
Western Australia s	kt	246 260	258 394	60 064	65 551	64 741	65 844	59 193	68 617
South Australia	kt	3 484	3 490	873	873	873	873	873	873
Tasmania	kt	2 174	1 931	541	541	519	503	504	405
Australia s	kt	251 918	263 815	61 478	66 965	66 133	67 220	60 569	69 894
Iron content s	kt	156 370	163 850	38 132	41 570	41 113	41 712	37 645	43 379
<b>Iron and steel</b>									
Iron and steel bs	Mt	7 556	7 941	1 889	1 889	2 028	1 982	1 941	1 990
<b>Exports</b>									
<b>Quantity</b>									
<b>Iron ore and pellets</b>									
Pellets, sinters and briquettes	kt	1 239	1 083	261	316	219	311	333	219
Fines	kt	158 122	168 311	39 912	40 515	40 757	45 261	38 193	44 100
Lump and run of mine	kt	69 095	70 124	16 272	18 524	17 879	19 086	15 537	17 621
Total iron ore and pellets									
China c	kt	99 635	123 116	25 395	28 084	29 374	34 685	27 821	31 236
Chinese Taipei	kt	9 457	8 834	2 392	2 393	2 440	1 919	2 058	2 418
European Union	kt	12 348	9 388	2 819	2 998	2 664	2 281	2 146	2 297
Japan	kt	80 183	72 744	19 530	19 651	17 747	19 273	15 904	19 820
Korea, Rep. of	kt	25 626	24 831	5 966	6 181	6 435	6 397	5 929	6 070
Other	kt	1 208	605	345	49	197	103	206	99
Total	kt	228 456	239 518	56 445	59 355	58 856	64 657	54 064	61 941
Iron content	kt	142 196	148 976	35 098	36 967	36 630	40 223	33 620	38 502
<b>Steel</b>									
Iron and steel	kt	2 338	2 428	562	562	570	570	620	668
Scrap	kt	1 009	1 877	145	292	229	927	301	420
<b>Value</b>									
<b>Iron ore and pellets</b>									
Pellets, sinters and briquettes	\$m	73	87	17	21	18	22	27	20
Fines	\$m	5 060	8 045	1 105	1 810	1 892	2 186	1 853	2 115
Lump and run of mine	\$m	2 987	4 379	607	1 097	1 091	1 205	992	1 091
Total	\$m	8 120	12 511	1 728	2 929	3 001	3 413	2 872	3 226
<b>Steel</b>									
Iron and steel	\$m	2 031	1 674	479	460	403	410	414	446
Scrap	\$m	402	461	64	115	83	111	108	159
Total	\$m	2 434	2 135	543	575	486	521	522	605
<b>Imports</b>									
<b>Quantity</b>									
Iron ore d	kt	4 648	5 026	999	1 138	1 365	1 453	740	1 467
Iron and steel	kt	2 116	2 192	602	637	566	564	532	530
Ferroalloys	kt	60	77	16	15	14	16	12	35
<b>Value</b>									
Iron ore d	\$m	145	222	33	48	59	48	48	67
Iron and steel	\$m	2 041	2 076	570	628	584	529	511	452
Ferroalloys	\$m	137	123	38	47	39	30	22	31
Total	\$m	2 323	2 421	641	723	682	607	582	550
<b>Prices</b>									
Japanese negotiated e	USc/dltu	36.57	62.72	36.57	62.72	62.72	62.72	62.72	69.93

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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine s</b>									
Lead ore and concentrates	kt	997	1 063	265	249	293	281	251	238
Lead content of all minerals produced									
New South Wales	kt	103	109	27	28	35	27	21	26
Queensland	kt	500	531	134	124	150	141	124	116
Western Australia	kt	12	62	5	6	10	17	19	17
Tasmania	kt	33	28	8	7	6	7	8	6
Northern Territory	kt	34	31	8	9	9	8	8	6
Australia	kt	682	761	181	174	211	201	180	170
<b>Smelter and refinery</b>									
Refined lead (primary) b	kt	234	234	60	58	49	62	60	63
<b>Domestic despatches</b>									
Refined lead	kt	33	28	7	7	8	7	7	7
<b>Exports</b>									
<b>Quantity</b>									
<b>Lead concentrate</b>									
China	kt	113	249	25	37	69	85	45	49
European Union	kt	59	58	16	11	11	16	11	21
Japan	kt	43	63	27	11	16	11	16	21
Korea, Rep. of	kt	171	131	35	59	16	55	21	39
Other	kt	30	0	13	0	0	0	0	0
Total	kt	417	502	116	117	112	167	93	130
<b>Lead bullion c</b>									
United Kingdom	kt	164	140	36	36	38	55	28	20
Total	kt	164	140	36	36	38	55	28	20
<b>Refined lead</b>									
Chinese Taipei	kt	7	9	1	1	1	3	4	2
India	kt	30	33	7	8	6	10	7	10
Indonesia	kt	11	13	2	4	3	3	3	4
Korea, Rep. of	kt	35	24	9	1	2	6	7	8
Thailand	kt	19	29	5	6	7	7	8	7
Other	kt	141	135	38	39	37	35	28	34
Total	kt	243	244	63	59	57	66	56	65
Lead content of all primary materials exported ds	kt	782	756	200	194	179	243	154	179
<b>Value</b>									
Lead concentrate	\$m	490	712	145	141	127	228	151	206
Lead bullion	\$m	246	235	56	59	60	77	54	44
Refined lead	\$m	305	350	79	74	70	88	88	104
Total	\$m	1 041	1 297	280	274	257	394	293	353
<b>Prices</b>									
LME cash e	US\$/t	964	1 061	947	987	892	1 012	1 212	1 100
Australia f	A\$/t	1 534	1 775	1 588	1 615	1 534	1 654	1 976	1 937

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 Pasmnico 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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
Manganese ore and concentrate									
Western Australia s	kt	607	916	139	192	214	233	239	230
Northern Territory	kt	2 999	2 822	694	830	650	738	679	754
Australia s	kt	3 606	3 738	833	1 022	864	971	918	984
Manganese content s	kt	1 734	2 049	405	478	505	520	514	511
<b>Exports a</b>									
<b>Quantity</b>									
Manganese ore and concentrate	kt	3 128	3 216	696	914	466	854	640	1 256
<b>Value</b>									
Manganese ore and concentrate	\$m	473	424	111	159	73	125	82	145
<b>Prices</b>									
Japanese negotiated b	US\$/mtu	2.45	3.98	2.45	3.98	3.98	3.98	3.98	3.54
	A\$/t	156.32	256.19	151.34	248.88	251.83	257.18	259.41	227.94

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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production as</b>									
<b>Mine</b>									
Nickel content									
Western Australia	kt	192	172	48	43	45	50	37	40
Australia	kt	192	172	48	43	45	50	37	40
<b>Smelter and refinery</b>									
Intermediate nickel	kt	115	99	30	29	27	28	20	24
Refined nickel, class 1 b	kt	116	104	29	28	27	29	24	24
Refined nickel, class 2 c	kt	10	7	2	3	2	2	2	1
<b>Exports s</b>									
<b>Quantity</b>									
Nickel d	kt	215	193	56	52	51	52	44	45
<b>Value</b>									
Ores and concentrates	\$m	704	724	183	185	179	153	164	229
Intermediate products e	\$m	525	432	152	144	114	102	85	130
Refined nickel, class 1 b	\$m	2 302	2 138	576	591	537	490	473	638
Refined nickel, class 2 c	\$m	154	114	38	42	29	25	33	27
Total	\$m	3 685	3 409	949	962	859	770	755	1 025
<b>Imports</b>									
<b>Value</b>									
Primary nickel products f	\$m	106	128	18	29	31	35	13	49
<b>Prices</b>									
LME cash g	US\$/t	14 971	15 513	15 367	16 421	14 569	12 639	14 807	20 036
	A\$/t	19 915	20 812	19 791	21 402	19 214	17 022	20 115	26 909

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.

## 17 petroleum

	Unit	2004-05	2005-06 p	Quarter					
				2004-05		2005-06 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Field</b>									
Crude oil	ML	18 172	16 473	4 082	5 130	4 718	4 558	3 465	3 731
Condensate	ML	7 201	6 675	1 744	1 874	1 866	1 775	1 586	1 448
Total	ML	25 372	23 148	5 826	7 004	6 584	6 333	5 051	5 179
Production rate	'000 bbl/day	443	404	407	490	460	443	353	362
LPG	ML	4 628	4 722	1 099	1 171	1 300	1 158	1 056	1 208
Ethane <sup>a</sup>	Mm <sup>3</sup>	407	456	113	108	115	116	104	120
Natural gas <sup>a</sup>	Mm <sup>3</sup>	37 267	38 014	8 469	9 442	9 921	9 297	8 591	10 205
<b>Refinery</b>									
Refinery input	ML	40 334	36 895	9 667	9 534	9 146	9 646	9 427	8 677
Refinery output									
LPG	ML	995	1 125	301	288	272	285	298	270
Automotive gasoline	ML	17 913	16 528	4 395	4 307	4 202	4 176	4 090	4 059
Aviation gasoline	ML	144	119	30	30	25	28	36	31
Aviation turbine fuel	ML	5 325	5 216	1 354	1 216	1 294	1 430	1 257	1 235
Kerosine	ML	26	12	2	1	2	2	7	2
Heating oil	ML	106	102	25	34	32	11	17	41
Automotive diesel oil	ML	12 822	10 154	3 113	3 017	2 919	2 664	2 345	2 226
Industrial and marine diesel fuel	ML	22	31	6	5	8	13	4	5
Fuel oil (excl. refinery fuel)	ML	1 092	1 048	324	328	250	236	299	263
Lubricating oil basestock	ML	202	163	50	40	35	40	49	39
Bitumen	ML	1 091	831	310	400	134	268	191	237
Other products	ML	977	946	262	228	351	159	242	195
Total	ML	40 202	36 274	10 173	9 894	9 524	9 311	8 834	8 605
<b>Sales</b>									
LPG									
Automotive use <sup>b</sup>	ML	2 339	2 681	509	584	747	728	620	587
Total	ML	3 386	4 167	789	825	1 213	1 042	877	1 036
Automotive gasoline									
Lead replacement <sup>c</sup>	ML	495	15	87	54	13	2	0	0
Premium unleaded	ML	2 976	1 867	791	727	476	500	470	422
Regular unleaded	ML	16 406	15 932	3 938	4 011	4 020	4 087	3 939	3 887
Other unleaded <sup>d</sup>	ML	0	1 203	0	0	295	304	317	288
Total	ML	19 876	19 018	4 816	4 791	4 803	4 892	4 726	4 597
Aviation gasoline	ML	91	86	21	24	23	22	20	22
Aviation turbine fuel	ML	4 730	5 359	1 200	1 164	1 210	1 366	1 390	1 394
Kerosine	ML	12	27	2	4	4	6	8	8
Heating oil	ML	34	26	4	11	9	3	5	9
Automotive diesel oil	ML	15 185	15 804	3 612	3 906	3 791	4 097	3 838	4 077
Industrial and marine diesel fuel	ML	15	19	3	4	5	4	5	5
Fuel oil	ML	1 595	1 586	422	373	369	438	403	376
Lubricating oil and greases	ML	470	451	110	124	117	113	105	115
Bitumen	ML	812	805	229	222	166	200	236	203
Other products	ML	939	973	230	231	268	241	233	230
Total	ML	47 145	48 323	11 439	11 679	11 979	12 425	11 847	12 072

continued

**17** petroleum *continued*

	Unit	2004-05	2005-06 p	Quarter					
				2004-05		2005-06 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Exports</b>									
<b>Quantity</b>									
Crude oil and other refinery feedstock									
China	ML	732	404	99	99	98	104	104	98
Chinese Taipei	ML	916	346	260	321	114	224	8	0
Japan	ML	1 927	2 201	635	462	639	557	618	387
Korea, Rep. of	ML	2 787	2 725	521	750	967	762	588	408
New Zealand	ML	1 425	465	151	258	205	127	62	71
Singapore	ML	2 861	3 108	723	677	961	965	627	555
United States	ML	1 154	297	0	350	100	197	0	0
Other	ML	3 929	3 480	1 382	1 111	1 081	671	862	866
Total	ML	15 731	13 025	3 770	4 028	4 166	3 607	2 867	2 386
LNG	Mt	10.59	11.92	2.65	2.65	2.93	2.98	2.86	3.15
LPG	ML	2 844	2 800	796	659	985	556	602	657
Refinery products									
Automotive gasoline	ML	774	630	219	150	149	264	132	84
Aviation turbine fuel	ML	240	127	72	15	37	44	46	0
Diesel fuel <b>d</b>	ML	367	419	195	32	101	73	240	4
Fuel oil	ML	201	493	56	65	64	119	217	93
Aviation gasoline	ML	38	175	14	8	8	21	68	78
Lubricants	ML	156	179	42	53	58	44	35	42
Other products	ML	70	69	19	15	18	17	17	16
Total	ML	1 847	2 091	618	338	435	583	756	318
Ships' and aircraft stores									
Aviation turbine fuel	ML	1 893	1 893	473	473	473	473	473	473
Fuel oil	ML	297	259	63	66	66	66	64	64
Other products	ML	16	11	10	3	5	1	2	3
Total	ML	2 207	2 163	546	542	544	540	540	540
<b>Value</b>									
Crude oil and other refinery feedstock									
	\$m	6 330	6 639	1 478	1 725	2 032	1 720	1 502	1 385
LNG	\$m	3 199	4 347	759	869	966	1 099	1 060	1 222
LPG	\$m	804	1 000	212	200	293	217	254	235
Refinery products									
Automotive gasoline	\$m	339	378	93	73	92	145	82	60
Aviation turbine fuel	\$m	108	80	33	8	24	26	30	0
Diesel fuel <b>d</b>	\$m	166	238	88	18	59	39	136	4
Fuel oil	\$m	51	216	13	21	26	50	96	43
Aviation gasoline	\$m	26	90	9	6	6	12	32	41
Lubricants	\$m	112	138	27	36	40	32	30	35
Other products	\$m	41	50	7	10	12	13	12	13
Total	\$m	844	1 190	269	172	258	318	418	196
Total	\$m	11 176	13 176	2 718	2 966	3 549	3 355	3 234	3 038
Ships' and aircraft stores									
Aviation turbine fuel	\$m	858	1 206	193	259	297	268	313	328
Fuel oil	\$m	82	107	14	21	24	27	28	29
Other products	\$m	11	9	7	2	4	1	1	3
Total	\$m	951	1 322	214	281	324	296	343	360

*continued*

17 petroleum *continued*

	Unit	2004-05	2005-06 p	Quarter					
				2004-05		2005-06 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Imports</b>									
<b>Quantity</b>									
Crude oil and other refinery feedstock									
Indonesia	ML	3 328	3 940	1 331	644	1 129	1 035	787	989
Malaysia	ML	4 761	3 977	1 089	1 127	814	909	1 325	929
Middle East									
Qatar	ML	77	0	0	0	0	0	0	0
Saudi Arabia	ML	3 101	1 604	737	1 140	135	537	606	326
United Arab Emirates	ML	1 917	867	218	32	143	112	284	329
Other	ML	158	199	0	103	0	95	103	0
Total Middle East	ML	5 252	2 670	956	1 275	278	744	993	655
New Zealand	ML	663	641	146	187	171	105	207	158
Papua New Guinea	ML	1 717	2 385	362	609	591	564	827	403
Singapore	ML	652	835	147	211	258	186	216	174
Viet Nam	ML	6 560	6 750	1 812	1 362	1 520	1 620	1 730	1 881
Other	ML	3 122	3 287	660	848	980	826	597	883
Total	ML	26 054	24 486	6 502	6 263	5 741	5 989	6 683	6 073
Refined products									
LPG	ML	540	632	87	175	6	254	83	289
Automotive gasoline	ML	3 131	3 697	726	887	605	1 142	920	1 030
Aviation turbine fuel	ML	983	828	198	328	249	121	222	235
Diesel fuel <sup>d</sup>	ML	3 944	6 127	743	1 300	1 269	1 380	1 649	1 829
Fuel oil	ML	1 281	1 418	434	283	397	351	361	309
Lubricants	ML	327	371	68	91	118	88	70	96
Other products	ML	981	3 144	283	224	187	227	667	2 062
Total	ML	11 188	16 217	2 537	3 288	2 831	3 563	3 973	5 850
<b>Value</b>									
Crude oil and other refinery feedstock									
	\$m	9 995	12 856	2 379	2 691	2 797	2 956	3 517	3 586
Refined products									
LPG	\$m	143	203	26	46	3	80	30	89
Automotive gasoline	\$m	1 463	2 347	319	461	375	658	555	758
Aviation turbine fuel	\$m	483	535	90	184	153	71	141	169
Diesel fuel <sup>d</sup>	\$m	1 933	4 073	338	721	788	836	1 071	1 378
Fuel oil	\$m	364	569	111	90	140	139	146	144
Lubricants	\$m	288	418	61	81	106	97	90	124
Other products	\$m	448	638	124	111	100	122	178	238
Total	\$m	5 123	8 781	1 069	1 693	1 665	2 003	2 212	2 901
Total	\$m	15 118	21 637	3 448	4 384	4 462	4 959	5 729	6 487
<b>Prices</b>									
Dubai	US\$/bbl	40.72	58.16	41.84	48.15	55.92	53.70	58.04	64.98
West Texas intermediate									
	US\$/bbl	48.77	64.08	49.71	53.16	63.08	60.24	62.74	70.25
Brent	US\$/bbl	46.23	62.46	47.60	51.58	61.58	57.15	61.36	69.75
Tapis	US\$/bbl	49.15	66.72	49.73	55.23	64.72	60.84	67.49	73.77
World trade weighted average									
	US\$/bbl	41.18	57.25	42.34	47.13	56.50	52.33	56.28	63.90
	A\$/bbl	54.77	76.81	54.53	61.42	74.51	70.48	76.45	85.82

<sup>a</sup> Commercial sales plus field and plant usage. <sup>b</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>c</sup> Leaded petrol phased out as at 1 January 2002. Lead replacement petrol (LRP) introduced as at 1 January 2002. <sup>d</sup> Includes automotive diesel oil and industrial and marine diesel fuel. <sup>e</sup> Data not available from January to December 2002 due to confidentiality restrictions. <sup>p</sup> Preliminary. <sup>s</sup> 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) a	Ethane a	Natural gas a
			ML	'000 bbl/day	ML	Mm <sup>3</sup>	Mm <sup>3</sup>
<b>March quarter 2006</b>							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	2.9
Amadeus	12.9	0.0	12.9	0.9	0.0	0.0	127.5
Bonaparte	285.2	0.0	285.2	19.9	0.0	0.0	0.0
Bowen-Surat	4.8	4.9	9.8	0.7	6.0	0.0	159.1
Canning	0.6	0.0	0.6	0.0	0.0	0.0	0.0
Carnarvon							
Barrow Island	88.8	0.0	88.8	6.2	0.0	0.0	430.9
North West Shelf	792.4	1 316.0	2 108.3	147.3	528.7	0.0	5 525.7
Other	999.6	30.6	1 030.2	72.0	0.0	0.0	205.6
Cooper-Eromanga							
Queensland	105.2	42.7	147.9	10.3	0.0	0.0	0.0
South Australia	122.8	51.9	174.8	12.2	135.2	66.2	807.2
Gippsland	923.8	139.0	1 062.8	74.3	386.4	38.0	1 198.3
Otway	0.0	0.7	0.7	0.1	0.0	0.0	43.6
Perth	128.7	0.6	129.3	9.0	0.0	0.0	90.6
Total	3 464.9	1 586.4	5 051.3	353.0	1 056.3	104.2	8 591.3
<b>June quarter 2006 p</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	0.0	328.0	22.9	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	1 107.9	1 055.1	2 162.9	151.2	474.2	0.0	5 785.7
Other	907.1	51.8	958.9	67.0	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	3 731.4	1 448.1	5 179.5	362.0	1 207.9	120.4	10 205.1
<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	0.0	1 403.0	24.5	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	4 184.3	5 264.8	9 449.1	165.1	2 160.1	0.0	22 946.8
Other	5 414.9	202.2	5 617.1	98.1	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	16 472.7	6 675.1	23 147.8	404.4	4 722.0	456.2	38 014.2

a Commercial sales plus field and plant usage. p Preliminary.  
Sources: Department of Industry, Tourism and Resources, Canberra.

## 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>June quarter 2006 p</b>								
<b>LPG <sup>b</sup></b>								
Automotive use <sup>c</sup>	172	233	85	38	54	4	1	587
Total	301	379	165	78	87	19	6	1 036
<b>Automotive gasoline</b>								
Lead replacement petrol	0	0	0	0	0	0	0	0
Premium unleaded	135	93	100	47	26	17	3	422
Regular unleaded	1 213	995	862	398	297	92	30	3 887
Other unleaded <sup>d</sup>	113	75	70	19	10	0	0	288
Total	1 461	1 164	1 032	465	333	108	33	4 597
Of which sales to retailers	1 238	917	722	401	252	47	13	3 589
Aviation gasoline	3	3	7	4	1	0	2	22
Aviation turbine fuel	537	290	252	205	55	8	47	1 394
Kerosine	2	2	2	2	0	0	0	8
Heating oil	4	1	1	0	2	1	0	9
Automotive diesel oil	891	675	1 129	889	295	86	112	4 077
Of which sales to retailers	273	254	222	154	58	8	7	977
Industrial and marine diesel fuel	2	1	1	0	0	0	0	5
Fuel oil <sup>e</sup>	130	72	24	31	0	5	113	376
Lubricating oil and greases	28	26	34	17	7	2	1	115
Bitumen	58	38	63	25	14	4	1	203
Other products <sup>f</sup>	25	183	17	4	1	0	0	230
Total	3 444	2 834	2 727	1 719	797	234	317	12 072
<b>2005-06</b>								
<b>LPG <sup>b</sup></b>								
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
<b>Automotive gasoline</b>								
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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
Single superphosphate bs	kt	1 594	1 321	386	483	294	479	142	407
<b>Imports</b>									
<b>Quantity</b>									
Phosphate rock									
China	kt	210	86	49	45	1	60	5	19
Morocco	kt	381	411	101	179	105	154	0	153
Togo	kt	163	48	44	0	0	0	48	0
Other	kt	43	115	0	18	41	25	17	31
Total	kt	797	661	193	242	147	239	71	203
Phosphates									
Diammonium c	kt	287	198	121	89	16	33	93	56
Monammonium d	kt	926	527	345	297	118	95	216	98
High analysis e	kt	232	310	62	41	19	127	113	51
<b>Value</b>									
Phosphate rock	\$m	49	43	11	15	9	16	4	14
Phosphates									
Diammonium c	\$m	87	72	37	27	7	12	33	20
Monammonium d	\$m	286	189	106	89	41	34	80	35
High analysis e	\$m	50	59	11	9	3	24	20	11
<b>Prices</b>									
Australia f	A\$/t	16.33	16.14	17.30	16.45	16.90	14.90	18.19	14.58

a Produced at Phosphate Hill from locally mined phosphate rock and Australian natural gas. b Single superphosphate manufactured from imported phosphate rock; P<sub>2</sub>O<sub>5</sub> equivalent: 21 per cent. c P<sub>2</sub>O<sub>5</sub> equivalent: 46 per cent. d P<sub>2</sub>O<sub>5</sub> equivalent: 50 per cent. e P<sub>2</sub>O<sub>5</sub> equivalent: 48 per cent. f 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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
Queensland s	kt	100	320	25	25	80	80	80	80
Western Australia a	kt	11 574	10 834	3 126	3 089	2 591	2 743	2 626	2 875
South Australia b	kt	580	609	150	151	159	160	145 s	145 s
Australia cs	kt	12 254	11 763	3 301	3 265	2 830	2 983	2 851	3 100
<b>Exports</b>									
<b>Quantity</b>									
Bulk, bagged and table	kt	12 128	10 776	3 047	3 223	2 567	2 651	2 638	2 920
<b>Value</b>									
Bulk, bagged and table	\$m	226	229	58	64	52	54	58	65
<b>Prices</b>									
Australia d	A\$/t	18.63	21.29	19.02	19.95	20.18	20.45	22.07	22.33

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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine s</b>									
Silver content of all minerals produced									
New South Wales	t	96	96	24	27	27	23	23	23
Queensland	t	1 971	1 862	528	491	516	530	444	373
Western Australia	t	67	103	21	19	22	26	32	23
South Australia	t	34	34	10	8	10	9	8	7
Tasmania	t	90	86	24	19	19	21	22	24
Northern Territory	t	44	38	10	11	11	10	9	7
Australia	t	2 303	2 218	617	576	605	619	538	456
<b>Refinery</b>									
Refined silver	t	722	655	190	184	163	164	145	183
<b>Exports</b>									
<b>Quantity</b>									
Refined silver bullion	t	517	482	136	131	137	124	107	114
<b>Value</b>									
Refined silver a	\$m	161	197	41	40	43	46	42	65
<b>Imports</b>									
<b>Value</b>									
Refined silver bullion	\$m	30	33	6	1	7	2	9	14
<b>Prices</b>									
World b	US\$/oz	695	928	697	715	707	807	969	1 229
Australia c	A\$/kg	306	399	288	299	299	347	420	528

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

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

## 23 tin

	Unit	2004-05	2005-06 p	Quarter					
				2004-05		2005-06 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine</b>									
Tin content of all minerals									
New South Wales s	t	50	0	0	0	0	0	0	0
Queensland s	t	0	654	0	0	0	106	242	306
Western Australia s	t	305	590	75	89	146	166	161	117
Tasmania	t	1 700	933	570	734	866	67	0	0
Australia s	t	2 055	2 176	645	823	1 012	339	403	423
<b>Smelter and refinery</b>									
Refined tin (primary) s	t	445	736	104	123	175	192	206	163
<b>Domestic despatches s</b>									
Tin concentrate	t	408	788	101	119	195	223	214	156
Tin content	t	305	590	75	89	146	166	161	117
<b>Exports</b>									
<b>Quantity</b>									
Tin concentrate									
Malaysia	t	1 676	2 138	233	1 402	1 678	383	0	77
Thailand	t	0	6	0	0	0	0	6	0
Other	t	0	40	0	0	0	40	0	0
Total	t	1 676	2 184	233	1 402	1 678	423	6	77
Refined tin									
Malaysia	t	585	371	471	0	45	23	47	255
Other	t	11	25	3	3	10	5	4	5
Total	t	596	395	474	3	55	28	52	260
Tin content of primary materials exported bs									
	t	1 529	1 554	588	797	947	241	55	312
<b>Value</b>									
Tin concentrate	\$m	8	9	1	6	7	2	0	1
Refined tin	\$m	1	3	0	0	0	0	0	2
Total	\$m	8	12	1	6	7	2	0	2
<b>Imports</b>									
<b>Quantity</b>									
Refined tin	t	718	618	198	152	191	139	184	105
<b>Value</b>									
Refined tin	\$m	8	6	2	2	2	1	2	1
<b>Prices</b>									
LME c	US\$/t	8 491	7 403	8 091	7 955	7 046	6 433	7 602	8 529

a Primary and secondary. b Tin content of tin ores and concentrates and refined tin. c LME official close. p Preliminary. s 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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
Ilmenite concentrate									
New South Wales s	kt	0	25	0	0	0	0	25	0
Queensland s	kt	134	165	37	33	48	35	40	42
Western Australia	kt	1 873	1 937	457	464	497	463	500	477
South Australia	kt	0	19	0	0	0	0	19	0
Australia s	kt	2 006	2 145	494	497	545	498	584	519
Leucoxene concentrate									
Western Australia	kt	46	62	10	12	16	17	15	14
Rutile concentrate									
Victoria	kt	0	0	0	0	0	0	0	0
Queensland s	kt	68	75	16	21	21	14	19	21
Western Australia	kt	106	104	26	26	26	28	25	26
Australia s	kt	174	179	42	46	47	42	44	47
Synthetic rutile s									
Western Australia	kt	751	751	184	195	195	178	183	195
Titanium dioxide pigment s	kt	203	205	50	51	51	51	51	53
Zircon concentrate									
Victoria	kt	0	0	0	0	0	0	0	0
Queensland s	kt	49	56	12	15	17	10	13	16
Western Australia	kt	383	387	90	95	91	97	100	99
Australia s	kt	432	443	102	110	107	107	113	115
<b>Exports</b>									
<b>Quantity</b>									
Ilmenite concentrate a	kt	633	722	169	146	191	208	20	303
Leucoxene concentrate	kt	93	86	2	34	27	29	2	28
Rutile concentrate s	kt	158	170	40	44	44	40	41	44
Synthetic rutile s	kt	520	519	126	138	136	120	128	134
Titanium dioxide pigment	kt	175	178	42	45	41	46	41	49
Zircon concentrate s	kt	428	438	101	109	106	106	112	114
<b>Value</b>									
Ilmenite concentrate a	\$m	63	76	16	14	19	22	2	33
Leucoxene concentrate	\$m	25	25	1	9	8	8	2	7
Rutile concentrate s	\$m	114	139	28	35	35	33	34	37
Synthetic rutile s	\$m	308	353	73	91	90	81	89	93
Titanium dioxide pigment	\$m	422	442	98	109	100	116	104	123
Zircon concentrate s	\$m	319	396	79	90	92	95	107	103
<b>Prices b</b>									
Ilmenite concentrate									
Bulk	A\$/t	99	106	94	96	100	108	108	108
Leucoxene concentrate									
Bulk	A\$/t	208	226	642	209	227	252	na	204
Bagged	A\$/t	529	538	617	700	697	378	693	667
Rutile concentrate									
Bagged	A\$/t	771	897	759	859	864	885	902	933
Titanium dioxide pigment	A\$/t	2 412	2 486	2 363	2 409	2 438	2 505	2 507	2 490
Zircon concentrate									
All grades – bagged	A\$/t	903	1 052	941	987	1 034	1 064	1 029	1 097

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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine</b>									
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	t	10 964	10 154	2 787	2 590	2 924	2 922	2 576	1 732
Uranium (U content)									
South Australia	t	4 596	4 214	1 122	1 136	1 131	1 116	1 004	963
Northern Territory	t	4 701	4 396	1 241	1 060	1 348	1 362	1 180	505
Australia	t	9 297	8 610	2 363	2 196	2 479	2 478	2 184	1 469
<b>Exports a</b>									
<b>Quantity</b>									
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	t	11 249	10 253	3 845	2 062	3 100	3 353	2 040	1 760
<b>Value</b>									
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	\$m	475	546	149	92	154	178	99	115
<b>Prices</b>									
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )									
Industry spot b	US\$/lb	22.20	36.79	21.75	27.33	30.32	34.67	38.83	43.33
Australia c	A\$/kg	42.24	53.24	38.76	44.66	49.79	52.99	48.42	65.37

a Country details not available. b Average of weekly restricted spot price, published by The Ux Consulting Company. c Average export unit value. p 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			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine s</b>									
Zinc ore and concentrates	kt	2 506	2 564	613	638	655	629	646	634
Zinc content of all minerals produced									
New South Wales	kt	205	178	51	49	54	39	42	44
Queensland	kt	848	858	202	221	221	218	205	214
Western Australia	kt	47	113	13	16	18	22	40	32
Tasmania	kt	95	89	24	22	21	22	23	23
Northern Territory	kt	157	144	36	39	42	36	36	30
Australia	kt	1 352	1 382	326	347	356	338	346	343
<b>Smelter and refinery</b>									
Refined zinc (primary)	kt	464	446	117	108	117	115	101	113
<b>Domestic despatches</b>									
Refined zinc	kt	79	78	18	19	21	18	19	21
<b>Exports</b>									
<b>Quantity</b>									
Zinc concentrates									
Belgium-Luxembourg	kt	92	10	13	13	10	0	0	0
China	kt	289	203	53	51	50	74	38	42
Germany	kt	13	30	0	0	0	15	5	10
Italy	kt	0	0	0	0	0	0	0	0
Japan	kt	343	386	82	104	64	131	107	84
Korea, Rep. of	kt	565	508	165	137	122	152	98	137
Netherlands	kt	392	384	93	93	87	87	102	108
Spain	kt	96	120	30	39	40	31	40	10
United Kingdom	kt	0	0	0	0	0	0	0	0
United States	kt	26	0	13	0	0	0	0	0
Other	kt	139	205	23	20	34	68	30	73
Total	kt	1 953	1 846	472	458	406	556	420	464
Refined zinc									
Chinese Taipei	kt	51	77	13	21	21	18	18	20
Hong Kong, China	kt	144	127	38	39	35	35	23	34
Indonesia	kt	18	11	6	5	3	3	2	4
Malaysia	kt	69	32	38	27	1	24	4	3
New Zealand	kt	11	13	4	3	2	3	4	4
Thailand	kt	6	4	1	2	1	1	1	2
United States	kt	0	10	0	0	0	0	0	10
Other	kt	97	114	48	11	24	36	30	24
Total	kt	397	388	148	108	87	119	81	101
Zinc content of all primary materials exported <b>as</b>	kt	1 427	1 342	396	349	297	402	299	344
<b>Value</b>									
Zinc concentrates	\$m	852	1 518	210	219	206	335	362	615
Refined zinc	\$m	614	999	218	191	151	234	223	391
Total	\$m	1 466	2 517	428	410	357	570	584	1 006
<b>Prices</b>									
LME cash <b>b</b>	US\$/t	1 171	2 118	1 317	1 273	1 292	1 637	2 000	3 292
Australia <b>c</b>	A\$/t	1 759	2 874	1 872	1 938	1 908	2 255	2 992	4 341

**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.