



# australian mineral statistics

june quarter 2007



# 07

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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 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.

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 under two-thirds of Australia's major minerals and energy commodities recorded production increases in 2006-07.

Substantial increases in production of minerals and energy commodities occurred for refined nickel class 2 (50 per cent), manganese (24 per cent), refinery LPG (23 per cent), crude oil and condensate (19 per cent) and refined zinc (11 per cent).

Production of mineral sands commodities increased significantly – leucoxene (95 per cent), rutile (54 per cent), zircon (25 per cent) and ilmenite (12 per cent) – mainly as a result of the commissioning of a number of new mines.

Smaller increases were recorded for iron ore and concentrate, black coal, brown coal and alumina.

Significant production decreases occurred for refined tin (56 per cent), silver mine (25 per cent), lead bullion (19 per cent), refined lead (18 per cent), intermediate nickel (18 per cent) and lead mine (16 per cent). Lead production was affected by scheduled maintenance, a mine placed on care and maintenance and other issues.

Smaller production decreases occurred for refined silver, refined gold and uranium.

## *exports*

Australia's export earnings from mineral resources rose to a record \$106.5 billion in 2006-07, an increase of more than \$15 billion or 17 per cent from earnings in 2005-06. This strong performance reflects higher export prices for almost two-thirds of all minerals and energy commodities exported, along with increased export volumes for nearly three-quarters of the commodities.

The commodities that recorded the largest increases in export earnings in 2006-07 were: nickel, up \$5004 million (145 per cent) to \$8461 million; refined gold, up \$3232 million (46 per cent) to \$10 321 million; iron ore and pellets, up \$2648 million (21 per cent) to \$15 502 million; zinc, up \$1746 million (69 per cent) to \$4286 million; and crude oil, up \$1675 million (25 per cent) to \$8313 million.

Other commodities that recorded significant increases in export earnings in 2006-07 were: alumina, up \$962 million (18 per cent) to \$6224 million; copper, up \$890 million (16 per cent) to \$6543 million; aluminium, up \$863 million (18 per cent) to \$5651 million and LNG, up \$806 million (18 per cent) to \$5222 million.

Other commodities that recorded increases during the year were: lead, rutile and uranium oxide.

The commodities that recorded significant decreases in export earnings in 2006-07 were: coking coal, down \$1916 million (11 per cent) to \$15 087 million and steaming coal, down \$445 million (6 per cent) to \$6761 million.

The index of export prices of Australian minerals resources (export unit returns) rose a further 9.4 per cent in 2006-07 compared with 2005-06, as higher metal prices more than offset lower prices for energy minerals. Prices for metals and related minerals prices rose by 24.4 per cent, while prices for energy minerals declined by 8.7 per cent.

Revised forecasts of minerals production, exports and prices for 2007-08, and analysis of key factors affecting the outlook for minerals and energy markets and Australian industries, will be available in the next issue of *Australian Commodities*, to be released electronically on 24 September 2007.

resource sector indicators

**mine production – Australia**

base: 1997-98 = 100



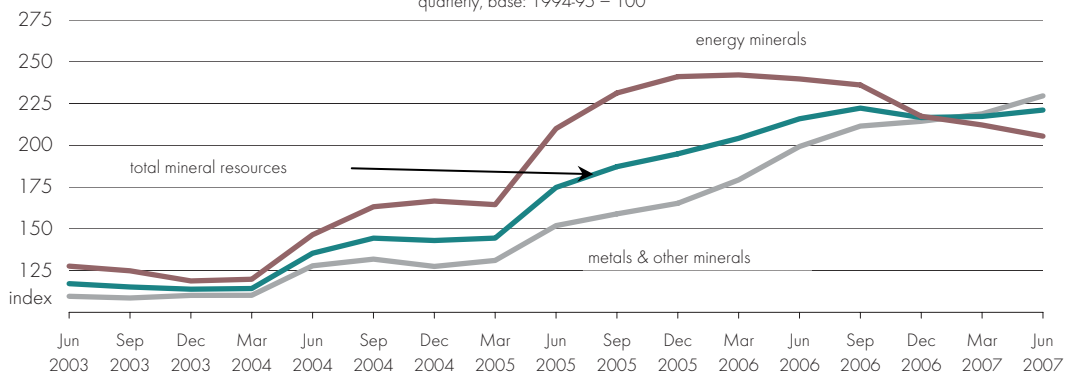
**mineral resources exports**

quarterly



**export unit returns**

quarterly, base: 1994-95 = 100



## 1 production summary

	Unit	2005-06	2006-07 <sup>p</sup>	Quarter					
				2005-06		2006-07 <sup>p</sup>			
				Mar.	June	Sep.	Dec.	Mar.	June
Bauxite	kt	60 874	62 684	14 636	15 370	15 986	15 789	15 288	15 621
Alumina	kt	17 826	18 506	4 432	4 492	4 588	4 800	4 447	4 671
Aluminium (ingot metal)	kt	1 912	1 964	469	476	493	493	486	492
Coal									
Black, raw	Mt	398	413 <sup>s</sup>	93	102	104	105	98 <sup>s</sup>	107 <sup>s</sup>
Black, salable	Mt	307	326 <sup>s</sup>	72	79	81	84	77 <sup>s</sup>	84 <sup>s</sup>
Brown <sup>as</sup>	Mt	68	72	na	na	na	na	na	na
Copper									
Mine <sup>bs</sup>	kt	933	855	218	233	215	209	219	212
Blister <sup>c</sup>	kt	404	389	99	100	86	92	108	103
Refined <sup>s</sup>	kt	461	435	113	113	98	105	119	113
Diamonds	'000 ct	25 354	24 632	5 244	7 539	8 393	8 132	3 582	4 524
Gold									
Mine <sup>bs</sup>	t	250	251	60	60	62	65	61	63
Refined	t	380	360	99	110	83	87	92	99
Iron									
Iron ore and concentrate <sup>s</sup>	kt	263 815	287 653	60 569	69 894	72 088	72 491	67 296	75 778
Iron and steel <sup>s</sup>	Mt	7 866	8 003	1 915	1 995	2 021	2 006	1 982	1 994
Lead									
Mine <sup>bs</sup>	kt	761	642	180	169	167	152	166	157
Bullion <sup>c</sup>	kt	141	114	34	27	34	23	25	32
Refined	kt	234	191	60	63	24	59	47	60
Manganese <sup>s</sup>	kt	4 088	5 071	933	1 138	1 244	1 252	1 229	1 345
Nickel									
Mine <sup>bs</sup>	kt	186	191	42	45	47	51	47	46
Intermediate	kt	74	61	7	12	14	16	15	16
Refined, class 1	kt	105	102	27	23	27	28	23	24
Refined, class 2	kt	10	15	3	3	2	3	5	5
Petroleum, field									
Crude oil and condensate <sup>s</sup>	ML	24 320	28 259	5 345	5 467	7 665	7 580	6 580	7 019
LPG (naturally occurring)	ML	4 722	4 567	1 056	1 208	1 293	1 143	1 054	1 077
Natural gas	Mm <sup>3</sup>	38 016	39 406	8 591	10 207	10 275	9 810	9 142	10 179
Petroleum, total refinery	ML	36 274	38 545	8 834	8 605	9 086	10 001	9 558	10 150
Salt <sup>s</sup>	kt	11 467	11 269	2 783	3 032	2 507	3 102	2 680	2 980
Silver									
Mine <sup>bs</sup>	t	2 218	1 674	538	456	393	340	474	467
Refined	t	655	618	145	183	141	165	156	156
Tin									
Mine <sup>bs</sup>	t	1 805	2 061	230	330	262	656	586	558
Refined <sup>s</sup>	t	736	321	206	163	106	97	68	50
Titanium									
Ilmenite concentrate <sup>s</sup>	kt	2 185	2 440	560	588	632	598	602	609
Leucoxene concentrate	kt	81	158	12	32	41	48	28	41
Rutile concentrate <sup>s</sup>	kt	184	284	44	51	69	68	65	83
Synthetic rutile <sup>s</sup>	kt	711	727	184	155	183	181	178	185
Titanium dioxide pigment <sup>s</sup>	kt	208	214	53	51	49	55	55	55
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	t	9 974	9 594	2 486	1 642	2 127	2 715	2 081	2 670
Zinc									
Mine <sup>bs</sup>	kt	1 380	1 378	346	340	324	352	324	378
Refined	kt	446	496	101	113	121	129	119	127
Zircon concentrate	kt	442	554	111	117	125	139	136	154

<sup>a</sup> Quarterly data are not available. <sup>b</sup> Total metallic content of minerals produced. <sup>c</sup> Metallic content. <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.

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

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07
Energy minerals	109.4	116.4	117.6	115.0	111.0	113.4	111.5	120.8
Metals and other minerals	103.9	112.7	111.8	115.8	115.9	124.0	124.7	126.6
Total minerals	106.9	114.8	115.1	115.5	113.5	118.8	118.2	123.4

<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	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
Bauxite	kt	5 639	5 700	1 253	1 462	1 363	1 433	1 329	1 575
Alumina <sup>a</sup>	kt	14 499	15 054	3 575	3 622	3 698	4 091	3 545	3 719
Aluminium (ingot metal)	kt	1 617	1 638	382	400	434	402	404	398
Coal, black									
Metallurgical	Mt	120.48	131.93	29.60	30.46	32.77	31.56	32.55	35.05
Thermal	Mt	110.82	111.64	26.78	29.29	27.34	28.21	28.58	27.50
Copper <sup>bs</sup>	kt	790	704	194	181	170	178	189	168
Diamonds <sup>cs</sup>	'000 ct	25 354	24 632	5 244	7 539	8 393	8 132	3 582	4 524
Gold <sup>bs</sup>	t	315.24	399.74	69.94	93.40	92.82	93.12	96.00	117.79
Iron									
Iron ore and pellets	kt	239 380	257 098	54 123	61 744	64 230	67 331	58 653	66 884
Iron and steel	kt	2 428	2 648	620	668	633	674	678	663
Lead <sup>bs</sup>	kt	756	635	154	180	155	180	157	142
Manganese ore									
and concentrate	kt	3 215	4 667	640	1 255	1 087	1 224	1 107	1 248
Nickel <sup>ds</sup>	kt	198	218	45	46	51	59	52	55
Petroleum									
Crude oil and other refinery feedstock	ML	13 026	15 965	2 867	2 386	4 063	4 216	3 951	3 735
LNG	Mt	12.50	15.20	2.99	3.60	3.45	3.90	3.95	3.90
LPG	ML	2 800	2 824	602	656	731	814	593	686
Refinery products	ML	2 102	1 786	762	311	505	440	401	440
Salt	kt	10 776	10 747	2 638	2 920	2 389	2 964	2 575	2 819
Tin <sup>b</sup>	t	1 556	1 866	55	313	221	433	663	549
Titanium									
Ilmenite concentrate	kt	722	999	20	303	270	312	248	169
Leucoxene concentrate	kt	86	123	2	28	28	23	46	26
Rutile concentrate	kt	169	307	41	43	67	80	77	82
Synthetic rutile <sup>s</sup>	kt	472	508	124	96	140	131	112	126
Titanium dioxide pigment	kt	177	171	41	49	44	39	40	48
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	t	10 253	9 519	2 040	1 760	1 856	3 005	1 725	2 933
Zinc <sup>b</sup>	kt	1 328	1 327	295	335	305	349	297	375
Zircon concentrate	kt	438	555	110	116	124	137	143	152

continued

### 3 exports summary continued

	Unit	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
Bauxite	\$m	127	153	30	35	30	38	41	44
Alumina <b>a</b>	\$m	5 262	6 224	1 329	1 494	1 550	1 710	1 484	1 480
Aluminium (ingot metal)	\$m	4 788	5 651	1 226	1 397	1 457	1 384	1 449	1 361
Coal, black									
Metallurgical	\$m	17 003	15 087	4 295	4 131	4 063	3 739	3 716	3 569
Thermal	\$m	7 206	6 761	1 713	1 845	1 705	1 704	1 715	1 638
Copper <b>e</b>	\$m	5 653	6 543	1 446	1 820	1 631	1 703	1 586	1 624
Diamonds <b>cs</b>	\$m	836	726	148	227	208	199	194	125
Gems, other than diamonds	\$m	59	48	20	11	14	9	16	9
Gold, refined	\$m	7 089	10 321	1 666	2 436	2 399	2 362	2 529	3 031
Iron									
Iron ore and pellets	\$m	12 854	15 502	2 895	3 546	3 909	4 016	3 505	4 073
Iron and steel	\$m	1 674	1 743	414	446	421	447	444	431
Lead <b>e</b>	\$m	1 296	1 539	291	354	328	395	415	401
Manganese ore									
and concentrate	\$m	424	482	83	143	113	124	109	136
Nickel <b>es</b>	\$m	3 457	8 377	786	1 018	1 650	2 060	2 197	2 470
Petroleum									
Crude oil and other									
refinery feedstock	\$m	6 638	8 313	1 506	1 379	2 316	2 070	1 922	2 004
LNG	\$m	4 416	5 222	1 060	1 290	1 362	1 396	1 275	1 189
LPG	\$m	1 002	1 038	254	237	288	275	218	257
Refinery products	\$m	1 195	1 100	418	201	342	252	229	278
Salt	\$m	229	239	58	65	54	62	60	62
Silver, refined	\$m	197	221	42	65	48	54	52	67
Tin <b>e</b>	\$m	12	25	0	2	2	5	9	8
Titanium									
Ilmenite concentrate	\$m	76	113	2	33	31	33	28	20
Leucoxene concentrate	\$m	25	35	2	6	11	7	10	8
Rutile concentrate	\$m	138	259	34	36	56	66	64	74
Synthetic rutile <b>s</b>	\$m	321	361	85	67	97	91	78	96
Titanium dioxide pigment	\$m	441	408	104	121	108	96	97	107
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	\$m	546	660	99	115	125	194	142	198
Zinc <b>e</b>	\$m	2 540	4 286	610	1 004	970	1 208	984	1 124
Zircon concentrate	\$m	398	478	107	104	112	123	130	113
Other mineral resources <b>f</b>	\$m	5 212	4 557	1 272	2 039	1 046	1 258	1 033	1 220
Total mineral resources <b>g</b>	\$m	91 115	106 478	21 997	25 670	26 447	27 082	25 733	27 216
Total merchandise	\$m	154 425	169 617	36 738	42 337	43 074	43 558	40 066	42 919
<b>Total goods and services</b>	\$m	196 274	215 850	47 432	52 761	54 166	55 244	52 008	54 432

**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							
	2005-06 p				2006-07 p			
	Sep.	Dec.	Mar.	June	Sep.	Dec.	Mar.	June
Energy minerals	231.3	241.1	242.1	239.7	236.1	217.4	212.2	205.5
Metals and other minerals	158.9	165.3	179.3	199.3	211.5	214.4	218.8	229.6
Total mineral resources	187.2	194.9	204.2	215.9	222.3	216.6	217.3	221.1

**a** Base: 1994-95 = 100. **p** Preliminary.  
Sources: Australian Bureau of Statistics, Canberra; ABARE.

## 5 imports summary

	Unit	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Quantity</b>									
Diamonds <b>a</b>	'000 ct	4 098	3 430	891	918	822	1 002	789	817
Iron ore	kt	5 026	4 722	740	1 467	1 265	1 683	757	1 017
Ingot steel	kt	2 191	2 317	532	530	617	530	657	512
Ferroalloys	kt	57	86	12	15	38	17	14	17
<b>Petroleum</b>									
Crude oil and other refinery feedstock	ML	24 416	25 344	6 680	6 006	5 921	6 230	6 600	6 592
Refinery products	ML	15 124	18 257	3 793	4 936	4 188	4 462	4 377	5 230
Phosphate rock	kt	655	469	71	198	123	146	55	145
<b>Value</b>									
Diamonds <b>a</b>	\$m	403	397	98	106	91	98	106	102
Gold <b>b</b>	\$m	4 800	5 309	1 358	1 946	1 163	1 320	1 290	1 537
Iron ore	\$m	222	338	48	67	72	117	60	89
Ingot steel	\$m	2 075	2 478	511	452	539	610	721	608
Ferroalloys	\$m	123	116	22	31	28	35	22	30
<b>Petroleum</b>									
Crude oil and other refinery feedstock	\$m	12 820	13 353	3 514	3 553	3 528	3 061	3 197	3 567
Refinery products	\$m	8 761	8 570	2 214	2 880	2 169	2 021	1 902	2 477
Phosphate rock	\$m	42	32	4	13	8	8	4	11
Silver	\$m	33	98	9	14	28	23	42	4
Other	\$m	637	985	155	183	240	204	371	171
<b>Total</b>	<b>\$m</b>	<b>29 916</b>	<b>31 676</b>	<b>7 933</b>	<b>9 244</b>	<b>7 867</b>	<b>7 498</b>	<b>7 716</b>	<b>8 596</b>

**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					
				2005-06 p			2006-07 p		
				Dec.	Mar.	June	Sep.	Dec.	Mar.
<b>Energy</b>									
<b>Petroleum</b>									
Onshore	\$m	270.1	355.8	98.6	82.0	95.4	107.8	144.5	110.3
Offshore	\$m	774.6	906.1	227.9	191.6	284.4	380.8	400.0	350.0
<b>Total</b>	<b>\$m</b>	<b>1 044.7</b>	<b>1 261.9</b>	<b>326.5</b>	<b>273.6</b>	<b>379.8</b>	<b>488.6</b>	<b>544.5</b>	<b>460.3</b>
Coal	\$m	126.8	166.4	46.0	41.5	46.7	50.5	60.0	38.8
Uranium	\$m	20.7	56.1	15.8	10.1	18.3	24.7	27.6	24.3
<b>Total energy</b>	<b>\$m</b>	<b>1 192.2</b>	<b>1 484.4</b>	<b>388.3</b>	<b>325.2</b>	<b>444.8</b>	<b>563.8</b>	<b>632.1</b>	<b>523.4</b>
<b>Metals and other minerals</b>									
Copper	\$m	71.4	139.5	36.7	24.6	46.7	52.7	53.5	51.2
Diamonds	\$m	23.7	22.6	7.3	4.4	4.6	8.6	10.2	3.3
Gold	\$m	391.7	399.6	99.1	90.0	110.5	104.3	125.0	103.6
Iron ore	\$m	137.9	161.3	42.9	32.4	49.7	70.1	72.5	54.0
Mineral sands	\$m	27.6	29.2	8.3	5.6	7.2	7.7	10.8	9.5
Nickel, cobalt	\$m	158.6	146.0	40.7	29.3	36.0	39.8	42.8	40.6
Silver, lead and zinc	\$m	31.3	71.2	17.8	14.8	25.5	26.3	34.1	33.5
Other	\$m	38.7	48.8	13.0	11.0	12.2	9.9	11.7	10.5
<b>Total metals and other minerals</b>	<b>\$m</b>	<b>880.9</b>	<b>1 018.2</b>	<b>265.8</b>	<b>212.1</b>	<b>292.4</b>	<b>319.4</b>	<b>360.6</b>	<b>306.2</b>
<b>Total expenditure</b>	<b>\$m</b>	<b>2 073.1</b>	<b>2 502.6</b>	<b>654.1</b>	<b>537.3</b>	<b>737.2</b>	<b>883.2</b>	<b>992.7</b>	<b>829.6</b>

Sources: Australian Bureau of Statistics, Canberra; ABARE.

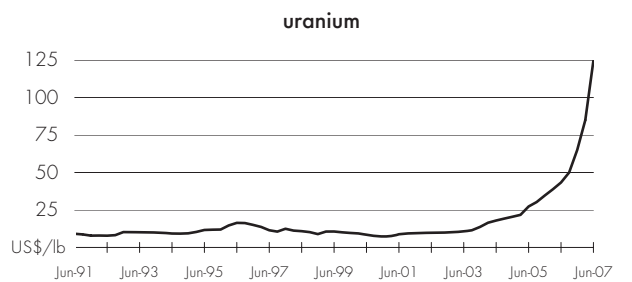
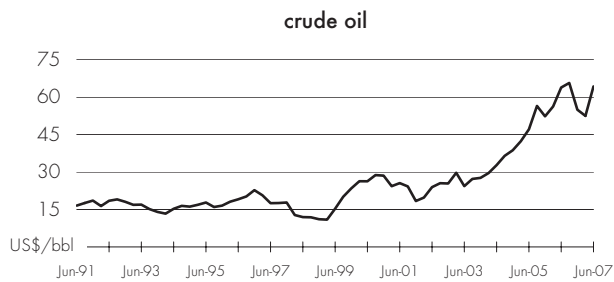
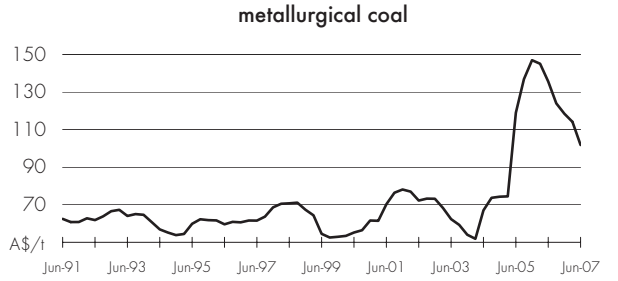
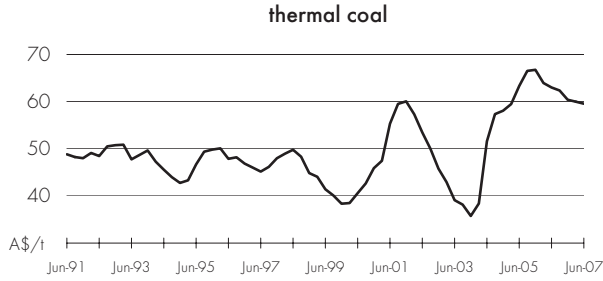
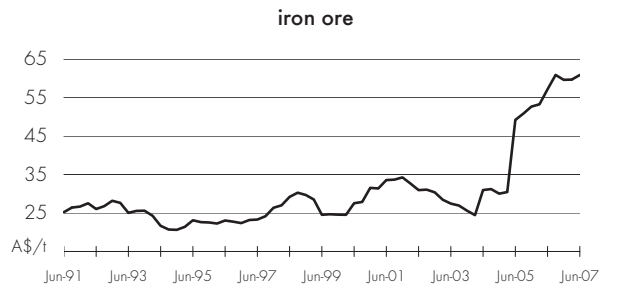
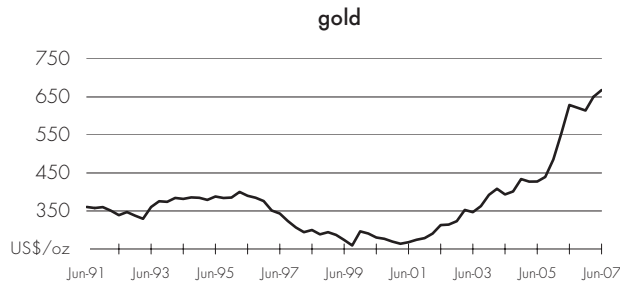
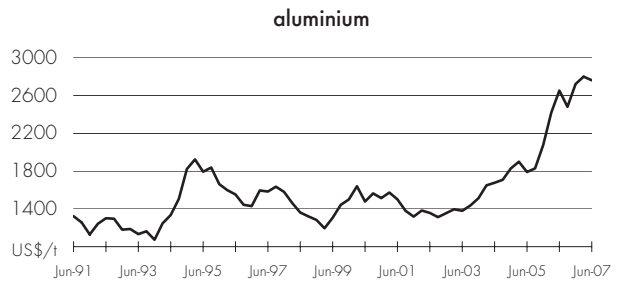
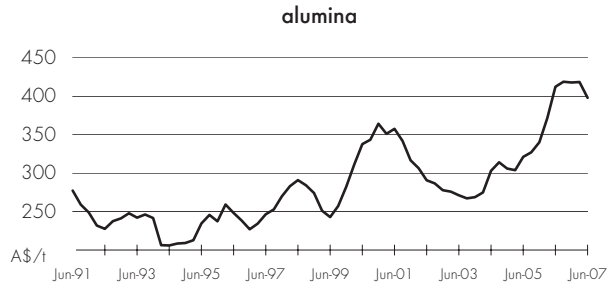
## 7 mineral resources prices

	alumina avg export unit value A\$/t	aluminium (high grade) LME cash US\$/t	gold London AM fix US\$/oz	iron ore <sup>a</sup> avg export unit value A\$/t	thermal coal avg export unit value A\$/t	metallurgical coal avg export unit value A\$/t	crude oil <sup>b</sup> world trade wtd ave US\$/bbl	uranium <sup>c</sup> Industry spot price US\$/lb
<b>2004-05</b>	311.47	1 806.85	422.49	35.54	59.55	86.12	41.18	22.20
<b>2005-06</b>	362.90	2 244.69	526.95	53.70	65.02	141.13	57.25	36.79
<b>2006-07</b>	413.43	2 692.18	638.56	60.30	60.57	114.35	59.37	81.17
<b>2006</b>								
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	61.20	62.93	137.00	63.45	45.50
July	416.22	2 512.71	633.09	61.41	62.65	127.13	67.76	47.50
August	425.52	2 459.93	631.56	60.33	62.45	122.69	68.89	48.50
September	414.47	2 472.88	600.15	61.01	61.95	122.02	60.45	54.00
October	423.93	2 654.59	586.65	60.40	61.41	121.22	54.20	60.00
November	414.95	2 702.80	626.83	59.78	60.49	118.35	53.89	63.00
December	414.11	2 813.08	629.51	58.75	59.24	115.91	56.89	72.00
<b>2007</b>								
January	408.95	2 809.30	630.35	58.91	59.17	114.66	50.77	75.00
February	421.36	2 832.20	664.60	60.64	62.51	112.52	53.65	85.00
March	425.42	2 761.73	655.89	59.57	58.63	114.95	58.70	95.00
April	399.43	2 814.79	680.01	60.54	59.88	101.45	63.67	113.00
May	402.64	2 794.69	668.31	61.67	59.52	99.77	63.91	125.00
June	391.27	2 677.45	655.71	60.45	59.29	104.39	66.89	136.00
	copper (high grade) LME cash US\$/t	lead LME cash US\$/t	zinc (high grade) LME cash US\$/t	silver <sup>d</sup> London fix US\$/troy oz	nickel LME cash US\$/t	ilmenite <sup>e</sup> avg export unit value A\$/t	rutile <sup>f</sup> avg export unit value A\$/t	zircon <sup>g</sup> avg export unit value A\$/t
<b>2004-05</b>	3 151.00	964.08	1 170.95	694.94	14 957.03	99.29	717.20	746.27
<b>2005-06</b>	5 062.00	1 061.35	2 117.81	927.82	15 487.81	105.92	816.59	908.63
<b>2006-07</b>	7 102.00	1 694.20	3 672.41	1 274.16	37 924.09	112.89	845.61	861.55
<b>2006</b>								
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	904.12	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
October	7 500.39	1 531.14	3 822.95	1 155.86	32 702.95	116.41	889.23	1 102.17
November	7 029.14	1 624.52	4 382.23	1 293.11	32 113.86	112.34	871.69	1 158.22
December	6 691.78	1 730.00	4 415.14	1 336.05	34 585.28	90.24	848.17	1 202.45
<b>2007</b>								
January	5 669.61	1 666.68	3 786.66	1 283.86	36 806.59	117.07	937.98	1 167.70
February	5 676.45	1 777.10	3 309.50	1 391.00	41 184.25	123.20	872.17	1 118.49
March	6 452.48	1 914.05	3 271.30	1 318.43	46 324.77	109.26	861.21	1 121.02
April	7 766.47	2 000.95	3 557.47	1 373.84	50 266.84	112.76	808.14	1 051.13
May	7 682.17	2 100.64	3 830.29	1 314.64	52 179.05	85.20	803.33	1 070.32
June	7 475.88	2 425.98	3 603.26	1 314.43	41 718.57	149.96	796.70	1 049.95

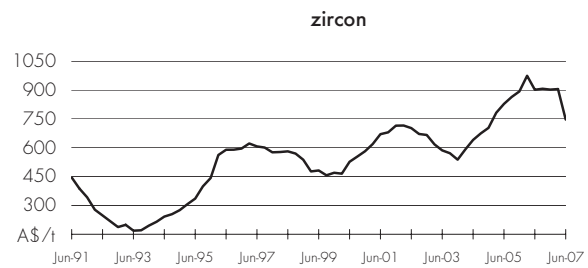
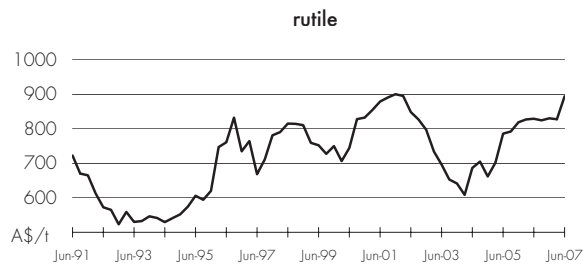
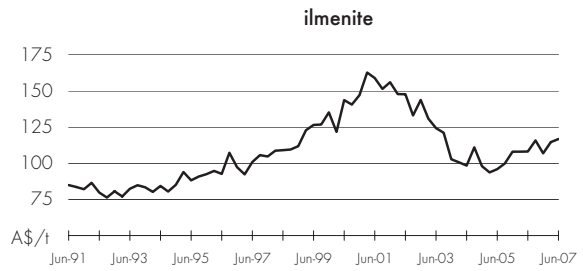
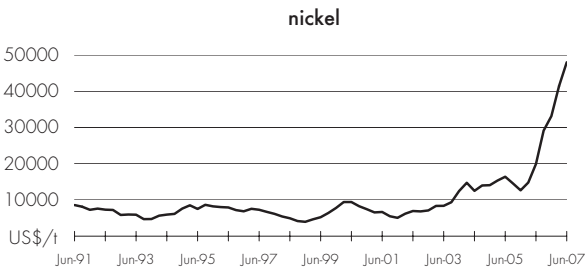
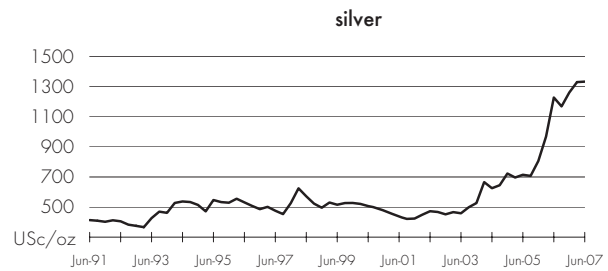
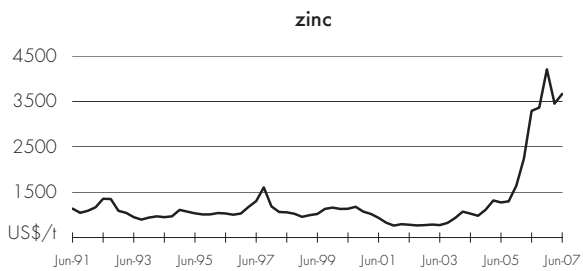
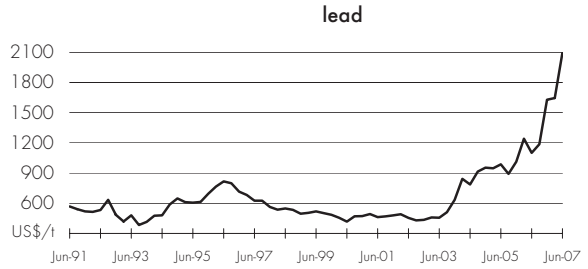
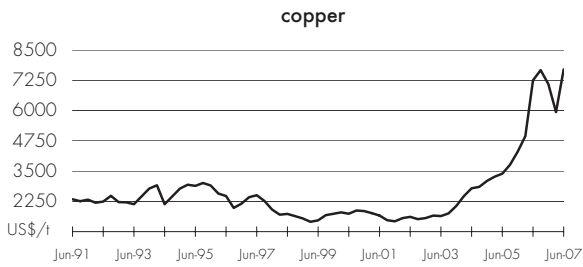
<sup>a</sup> Lump and fines. <sup>b</sup> US Department of Energy, *Energy Information Administration*. <sup>c</sup> Average of weekly restricted spot price published by The Ux Consulting Company. <sup>d</sup> London fix rate from May 2001; Handy and Harman, commercial bar, minimum 99.9 per cent prior to May 2001. <sup>e</sup> Bulk grade only after January 1992. <sup>f</sup> Bagged only after August 1999. <sup>g</sup> 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 2007



mineral resources prices, ended June quarter 2007 *continued*



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	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine</b>									
Bauxite									
Queensland	kt	16 158	16 969	3 890	3 855	4 085	4 487	4 272	4 125
Western Australia	kt	39 284	41 363	9 583	10 215	10 738	10 290	9 925	10 409
Northern Territory	kt	5 432	4 352	1 163	1 300	1 162	1 012	1 091	1 087
Australia	kt	60 874	62 684	14 636	15 370	15 986	15 789	15 288	15 621
Alumina content	kt	22 728	23 224	5 437	5 669	5 873	5 893	5 703	5 756
<b>Smelter and refinery</b>									
Alumina	kt	17 826	18 506	4 432	4 492	4 588	4 800	4 447	4 671
Aluminium (ingot metal)	kt	1 912	1 964	469	476	493	493	486	492
<b>Exports</b>									
<b>Quantity</b>									
Bauxite <b>a</b>	kt	5 639	5 700	1 253	1 462	1 363	1 433	1 329	1 575
Alumina <b>bc</b>	kt	14 499	15 054	3 575	3 622	3 698	4 091	3 545	3 719
Aluminium (ingot metal)									
Chinese Taipei	kt	187	153	48	51	43	41	30	38
Indonesia	kt	93	78	24	20	19	20	18	21
Japan	kt	542	634	110	128	186	154	157	136
Korea, Rep. of	kt	240	213	62	64	55	52	53	53
Malaysia	kt	87	92	21	21	18	22	25	27
Thailand	kt	192	200	52	48	45	52	51	51
Other	kt	276	268	65	69	66	60	70	72
Total	kt	1 617	1 638	382	400	434	402	404	398
<b>Value</b>									
Bauxite <b>a</b>	\$m	127	153	30	35	30	38	41	44
Alumina <b>bc</b>	\$m	5 262	6 224	1 329	1 494	1 550	1 710	1 484	1 480
Aluminium (ingot metal)	\$m	4 788	5 651	1 226	1 397	1 457	1 384	1 449	1 361
<b>Imports</b>									
<b>Quantity</b>									
Bauxite	kt	11	10	2	5	1	1	2	5
Alumina <b>b</b>	kt	1	11	0	0	2	2	4	3
Aluminium (ingot metal)	kt	6	3	2	1	1	1	1	1
<b>Value</b>									
Bauxite	\$m	3	3	1	1	0	0	1	1
Alumina <b>b</b>	\$m	2	12	0	0	3	3	3	3
Aluminium (ingot metal)	\$m	20	11	7	5	3	3	3	3
<b>Prices</b>									
Alumina <b>d</b>	A\$/t	363	413	372	412	419	418	419	398
Aluminium									
LME cash <b>e</b>	US\$/t	2 245	2 692	2 421	2 653	2 482	2 723	2 801	2 762
Australia <b>d</b>	A\$/t	2 962	3 450	3 208	3 490	3 358	3 446	3 586	3 418

**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	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine</b>									
Black coal, raw									
Underground	Mt	86.72	90.81 s	20.01	22.52	23.46	22.93	21.00 s	23.42 s
Opencut	Mt	311.65	322.54 s	73.30	79.40	80.41	81.60	77.05 s	83.49 s
New South Wales	Mt	161.14	171.60 s	37.69	41.38	43.73	43.62	41.14	43.11
Queensland	Mt	226.53	230.84 s	52.95	57.86	57.44	58.19	54.17 s	61.04 s
Western Australia a	Mt	6.30	6.44	1.58	1.58	1.58	1.60	1.62	1.64
South Australia a	Mt	3.80	3.84	0.95	0.95	0.96	0.96	0.96	0.96
Tasmania a	Mt	0.60	0.64	0.15	0.15	0.16	0.16	0.16	0.16
Australia	Mt	398.37	413.36	93.32	101.92	103.87	104.53	98.05	106.91 s
Black coal, salable									
Underground	Mt	67.30	73.44 s	15.86	17.29	19.05	18.58	16.95 s	18.85 s
Opencut	Mt	239.90	252.59 s	56.44	61.29	62.39	64.99	59.65 s	65.56 s
New South Wales	Mt	124.61	130.54	28.91	32.51	33.57	33.29	30.68	33.00 s
Queensland	Mt	171.90	184.59 s	40.73	43.40	45.18	47.57	43.19 s	48.66 s
Western Australia a	Mt	6.30	6.44	1.58	1.58	1.58	1.60	1.62	1.64
South Australia a	Mt	3.80	3.84	0.95	0.95	0.96	0.96	0.96	0.96
Tasmania a	Mt	0.58	0.62	0.15	0.15	0.15	0.15	0.15	0.15
Australia	Mt	307.19	326.03	72.30	78.59	81.44	83.57	76.61	84.41 s
Brown coal b									
Victoria s	Mt	67.74	71.88	na	na	na	na	na	na
<b>Exports</b>									
<b>Quantity</b>									
Metallurgical coal, high quality									
Brazil	Mt	3.17	3.05	0.56	0.79	0.71	0.86	0.75	0.73
China	Mt	2.22	2.41	0.93	0.17	0.50	0.50	1.04	0.36
Chinese Taipei	Mt	3.31	3.46	0.79	0.91	1.04	0.82	0.74	0.88
European Union 25	Mt	19.32	20.17	4.23	4.94	5.42	5.11	4.34	5.29
India	Mt	13.63	16.30	2.96	3.51	4.37	3.92	3.79	4.22
Japan	Mt	23.87	25.46	5.39	7.05	6.25	5.90	6.54	6.77
Korea, Rep. of	Mt	6.58	6.26	1.70	1.22	1.40	1.50	1.80	1.55
Other	Mt	5.39	5.70	1.53	1.48	1.44	1.66	1.43	1.18
Total	Mt	77.48	82.81	18.10	20.06	21.14	20.27	20.42	20.98
Metallurgical coal, other c									
Chinese Taipei	Mt	4.41	4.57	1.28	0.80	1.10	0.93	1.31	1.23
European Union 25	Mt	4.73	4.34	1.20	1.30	1.02	1.08	1.01	1.23
India	Mt	2.77	3.26	0.62	0.74	0.82	0.85	0.78	0.81
Japan	Mt	20.35	23.45	5.56	4.97	5.55	5.27	6.19	6.44
Other	Mt	10.74	13.50	2.85	2.58	3.13	3.16	2.84	4.37
Total	Mt	42.99	49.13	11.50	10.40	11.63	11.30	12.13	14.07
Total metallurgical coal	Mt	120.48	131.93	29.60	30.46	32.77	31.56	32.55	35.05
Thermal coal									
Chinese Taipei	Mt	13.21	16.23	3.32	3.57	3.72	4.11	4.26	4.15
European Union 25	Mt	2.32	3.73	0.59	0.81	0.60	1.14	0.76	1.22
Japan	Mt	59.33	58.62	14.19	14.33	14.24	14.34	15.13	14.90
Korea, Rep. of	Mt	20.24	15.06	4.75	5.27	4.00	3.64	4.12	3.30
Other	Mt	15.74	17.99	3.94	5.31	4.77	4.98	4.32	3.93
Total	Mt	110.82	111.64	26.78	29.29	27.34	28.21	28.58	27.50

continued

 coal continued

	Unit	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Exports</b>									
<b>Quantity</b>									
Other coal	Mt	1.17	0.80	0.31	0.20	0.35	0.28	0.00	0.17
Coke <b>d</b>	Mt	na	na	na	na	na	na	na	na
<b>Value</b>									
Metallurgical coal									
High quality	\$m	12 203	11 043	2 964	3 031	3 010	2 796	2 749	2 489
Other quality	\$m	4 800	4 043	1 331	1 100	1 053	943	967	1 080
Total metallurgical coal	\$m	17 003	15 087	4 295	4 131	4 063	3 739	3 716	3 569
Thermal coal									
Other coal	\$m	7 206	6 761	1 713	1 845	1 705	1 704	1 715	1 638
Other coal	\$m	80	48	23	20	23	15	0	10
Total coal	\$m	24 290	21 896	6 031	5 996	5 790	5 458	5 431	5 217
Coke	\$m	59	80	25	25	14	13	25	28
<b>Imports</b>									
<b>Quantity</b>									
Coke	Mt	0.05	0.04	0.02	0.02	0.01	0.02	0.01	0.01
<b>Value</b>									
Coke	\$m	4	6	1	2	2	2	1	1
<b>Prices <b>e</b></b>									
Metallurgical coal									
High quality	A\$/t	157.49	133.36	163.78	151.10	142.38	137.95	134.59	118.65
Other	A\$/t	111.65	82.30	115.71	105.77	90.56	83.50	79.73	76.73
Thermal coal	A\$/t	65.02	60.57	63.95	63.00	62.36	60.39	59.99	59.57

**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	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine s</b>									
Copper ore and concentrate	kt	2 826	3 060	713	737	756	763	768	773
Copper content of all minerals produced									
New South Wales a	kt	204	195	52	53	52	53	46	45
Queensland a	kt	399	338	90	96	82	85	86	84
Western Australia a	kt	93	110	21	22	31	24	26	28
South Australia	kt	204	183	47	55	42	40	54	48
Tasmania	kt	32	29	8	8	8	7	7	7
Australia a	kt	933	855	218	233	215	209	219	212
<b>Smelter and refinery</b>									
Blister copper (primary) b	kt	404	389	99	100	86	92	108	103
Refined copper (primary) s	kt	461	435	113	113	98	105	119	113
<b>Exports</b>									
<b>Quantity</b>									
Copper concentrate									
China c	kt	581	396	139	157	111	133	98	54
India	kt	494	493	156	82	135	71	137	149
Japan	kt	391	431	66	88	94	124	103	110
Korea, Rep. of	kt	68	115	31	12	36	15	34	29
Other	kt	100	77	10	22	42	35	0	0
Total	kt	1 635	1 512	402	360	418	379	371	343
Refined copper									
Chinese Taipei	kt	76	88	27	21	8	27	25	27
Indonesia	kt	30	17	4	5	3	7	4	3
Japan	kt	6	2	1	2	1	0	1	0
Singapore	kt	7	5	0	3	1	0	3	0
Thailand	kt	65	40	17	13	12	12	9	8
Other	kt	130	138	30	38	27	27	44	40
Total	kt	314	290	79	80	53	72	86	79
Copper content of all primary materials exported ds	kt	790	704	194	181	170	178	189	168
<b>Value</b>									
Copper concentrate	\$m	3 492	3 931	900	1 048	1 091	1 056	885	899
Refined copper	\$m	2 161	2 611	546	772	539	647	701	725
Total	\$m	5 653	6 543	1 446	1 820	1 631	1 703	1 586	1 624
<b>Prices e</b>									
LME cash	US\$/t	5 062	7 102	4 943	7 251	7 670	7 098	5 941	7 700
Australia	A\$/t	6 842	9 063	6 769	9 832	10 150	9 263	7 617	9 221

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.

## 1 | diamonds and other gemstones

	Unit	2005-06	2006-07 <sup>p</sup>	Quarter					
				2005-06		2006-07 <sup>p</sup>			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
Diamonds									
Northern Territory	'000 ct	14	10	0	2	4	5	0	0
Western Australia	'000 ct	25 339	24 622	5 244	7 537	8 389	8 127	3 582	4 524
Australia	'000 ct	25 354	24 632	5 244	7 539	8 393	8 132	3 582	4 524
<b>Exports</b>									
<b>Quantity</b>									
Diamonds									
Unsorted <sup>s</sup>	'000 ct	25 226	24 359	5 222	7 510	8 371	8 116	3 566	4 306
Sorted									
Gem	'000 ct	126	272	21	28	22	16	16	218
Industrial <sup>a</sup>	'000 ct	2	1	1	0	0	0	0	1
Total <sup>s</sup>	'000 ct	25 354	24 632	5 244	7 539	8 393	8 132	3 582	4 524
<b>Value</b>									
Diamonds									
Unsorted <sup>s</sup>	\$m	685	602	108	192	173	168	161	100
Sorted									
Gem	\$m	151	124	40	35	35	31	33	25
Industrial <sup>a</sup>	\$m	0	0	0	0	0	0	0	0
Total <sup>s</sup>	\$m	836	726	148	227	208	199	194	125
Opals									
Rough	\$m	13	12	6	3	4	3	3	2
Cut and polished	\$m	37	29	13	7	9	6	9	6
Total	\$m	50	41	19	10	13	8	12	7
Sapphires									
Rough	\$m	1	1	0	0	0	0	0	0
Total	\$m	1	1	0	0	0	0	0	0
Other gemstones <sup>b</sup>	\$m	8	7	2	1	1	1	3	1
Total gemstones	\$m	59	48	20	11	14	9	16	9
<b>Imports</b>									
<b>Quantity</b>									
Diamonds									
Unsorted	'000 ct	1	0	0	0	0	0	0	0
Sorted									
Gem	'000 ct	1 641	421	84	95	88	116	116	101
Industrial <sup>a</sup>	'000 ct	126	158	20	8	15	71	35	37
Dust and powder	'000 ct	2 330	2 850	786	816	719	815	637	680
<b>Value</b>									
Diamonds									
Unsorted	\$m	1	0	0	0	0	0	0	0
Sorted									
Gem	\$m	398	392	96	104	90	96	104	101
Industrial <sup>a</sup>	\$m	2	3	1	1	1	1	1	0
Dust and powder	\$m	3	2	1	1	1	1	0	0
Total	\$m	403	397	98	106	91	98	106	102

<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	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 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	34	6	7	7	8	9	9
Victoria	t	6	7	2	1	1	2	2	1
Queensland	t	22	21	5	5	6	5	5	5
Western Australia	t	165	162	40	41	41	43	39	39
South Australia	t	7	7	2	2	2	1	2	2
Tasmania	t	7	4	2	1	1	1	1	1
Northern Territory	t	14	17	3	3	3	4	4	5
Australia	t	250	251	60	60	62	65	61	63
<b>Refinery</b>									
Primary									
Australian origin	t	209	208	51	49	51	54	53	50
Overseas origin	t	66	55	18	13	14	16	13	12
Secondary									
Australian origin	t	7	5	1	1	2	1	1	1
Overseas origin	t	99	92	29	47	16	15	25	36
Total	t	380	360	99	110	83	87	92	99
<b>Exports</b>									
<b>Quantity</b>									
Refined and unrefined bullion									
China	t	1	0	0	0	0	0	0	0
Hong Kong, China	t	1	0	0	0	0	0	0	0
India	t	127	184	25	30	43	42	34	65
Japan	t	18	12	1	4	2	6	4	0
Korea, Rep. of	t	5	4	1	1	1	1	1	1
Middle East	t	3	23	1	2	0	5	8	10
United Arab Emirates	t	3	23	1	2	0	5	8	10
Singapore	t	13	18	3	3	5	5	4	5
Switzerland	t	3	37	2	0	0	6	15	16
Thailand	t	33	24	6	6	7	3	7	7
United Kingdom	t	101	71	30	41	22	21	19	9
Other	t	10	28	0	6	13	5	5	5
Total	t	315	400	70	93	93	93	96	118
<b>Value</b>									
Refined	\$m	7 089	10 321	1 666	2 436	2 399	2 362	2 529	3 031
<b>Imports</b>									
<b>Value</b>									
Refined and unrefined bullion	\$m	4 800	5 309	1 358	1 946	1 163	1 320	1 290	1 537
<b>Prices</b>									
London AM fix	US\$/oz	527	639	554	629	622	614	650	668
Australia	A\$/oz	707	814	753	843	822	799	829	805

p Preliminary. s ABARE estimate.

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

## 13 iron

	Unit	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
Iron ore and concentrate <b>a</b>									
Western Australia <b>s</b>	kt	258 394	281 117	59 193	68 617	70 835	70 804	65 505	73 973
South Australia	kt	3 490	4 698	873	873	1 078	1 150	1 189	1 282
Tasmania	kt	1 931	1 838	504	405	175	537	602	524
Australia <b>s</b>	kt	263 815	287 653	60 569	69 894	72 088	72 491	67 296	75 778
Iron content <b>s</b>	kt	163 850	186 074	37 645	43 379	44 725	45 184	46 039	50 126
<b>Iron and steel</b>									
Iron and steel <b>bs</b>	kt	7 866	8 003	1 915	1 995	2 021	2 006	1 982	1 994
<b>Exports</b>									
<b>Quantity</b>									
Iron ore and pellets									
Pellets, sinters and briquettes	kt	1 083	718	333	219	75	113	335	195
Fines	kt	168 414	182 864	38 358	44 039	45 152	48 420	41 517	47 775
Lump and run of mine	kt	69 884	73 516	15 432	17 486	19 003	18 798	16 801	18 914
Total iron ore and pellets									
China <b>c</b>	kt	123 489	135 261	27 874	31 556	32 435	36 703	30 828	35 296
Chinese Taipei	kt	8 880	9 824	2 058	2 464	2 520	2 407	2 333	2 565
European Union 25	kt	9 384	7 607	2 139	2 300	2 026	2 109	1 796	1 676
Japan	kt	72 313	74 884	15 918	19 376	19 538	19 002	16 838	19 506
Korea, Rep. of	kt	24 705	28 985	5 929	5 945	7 525	6 863	6 806	7 792
Other	kt	610	535	206	104	187	247	52	49
Total	kt	239 380	257 098	54 123	61 744	64 230	67 331	58 653	66 884
Iron content	kt	148 882	159 813	33 653	38 377	39 945	41 831	36 470	41 567
Steel									
Iron and steel	kt	2 428	2 648	620	668	633	674	678	663
Scrap	kt	1 876	1 333	301	420	223	405	234	470
<b>Value</b>									
Iron ore and pellets									
Pellets, sinters and briquettes	\$m	87	42	27	20	1	6	23	12
Fines	\$m	8 269	10 136	1 872	2 320	2 525	2 650	2 279	2 682
Lump and run of mine	\$m	4 499	5 324	996	1 206	1 384	1 359	1 203	1 378
Total	\$m	12 854	15 502	2 895	3 546	3 909	4 016	3 505	4 073
Steel									
Iron and steel	\$m	1 674	1 743	414	446	421	447	444	431
Scrap	\$m	467	607	108	166	105	177	122	203
Total	\$m	2 141	2 349	522	612	526	624	566	634
<b>Imports</b>									
<b>Quantity</b>									
Iron ore <b>d</b>	kt	5 026	4 722	740	1 467	1 265	1 683	757	1 017
Iron and steel	kt	2 191	2 317	532	530	617	530	657	512
Ferroalloys	kt	57	86	12	15	38	17	14	17
<b>Value</b>									
Iron ore <b>d</b>	\$m	222	338	48	67	72	117	60	89
Iron and steel	\$m	2 075	2 478	511	452	539	610	721	608
Ferroalloys	\$m	123	116	22	31	28	35	22	30
Total	\$m	2 420	2 932	582	550	640	762	804	727
<b>Prices</b>									
Japanese negotiated <b>e</b>	US\$/dltu	62.72	74.63	62.72	74.63	74.63	74.63	74.63	81.73

**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	2005-06	2006-07 <sup>p</sup>	Quarter					
				2005-06		2006-07 <sup>p</sup>			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine <sup>s</sup></b>									
Lead ore and concentrates	kt	1 063	908	251	238	235	212	242	218
Lead content of all minerals produced									
New South Wales	kt	109	91	21	26	28	27	16	20
Queensland	kt	531	415	124	115	106	85	112	112
Western Australia	kt	62	74	19	17	19	24	23	9
Tasmania	kt	28	29	8	6	7	7	7	8
Northern Territory	kt	31	33	8	6	7	9	8	8
Australia	kt	761	642	180	169	167	152	166	157
Smelter and refinery									
Refined lead (primary) <sup>b</sup>	kt	234	191	60	63	24	59	47	60
Domestic despatches									
Refined lead	kt	28	26	7	7	8	5	6	7
<b>Exports</b>									
<b>Quantity</b>									
Lead concentrate									
China	kt	249	166	45	49	46	61	43	16
European Union 25	kt	58	54	11	21	11	16	15	12
Japan	kt	64	53	16	21	16	10	10	16
Korea, Rep. of	kt	132	116	21	39	20	34	36	26
Other	kt	0	33	0	0	9	5	0	19
Total	kt	502	422	93	130	102	126	105	89
Lead bullion <sup>c</sup>									
United Kingdom	kt	140	112	28	20	37	36	21	18
Total	kt	140	112	28	20	37	36	21	18
Refined lead									
Chinese Taipei	kt	9	5	4	2	0	3	1	1
India	kt	33	41	7	10	9	10	12	10
Indonesia	kt	13	6	3	4	3	2	1	1
Korea, Rep. of	kt	24	42	7	8	8	12	12	10
Thailand	kt	29	12	8	7	2	3	2	4
Other	kt	135	109	28	34	21	25	33	31
Total	kt	244	215	56	65	43	55	62	56
Lead content of all primary materials exported <sup>ds</sup>	kt	756	635	154	180	155	180	157	142
<b>Value</b>									
Lead concentrate	\$m	711	815	149	207	187	202	218	208
Lead bullion	\$m	235	268	54	44	79	82	57	50
Refined lead	\$m	350	457	88	104	62	111	140	143
Total	\$m	1 296	1 539	291	354	328	395	415	401
<b>Prices</b>									
LME cash <sup>e</sup>	US\$/t	1 061	1 694	1 241	1 100	1 186	1 629	1 646	2 096
Australia <sup>f</sup>	A\$/t	1 775	2 347	1 976	1 937	1 759	2 311	2 535	2 785

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

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

## 15 manganese

	Unit	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
Manganese ore and concentrate									
Western Australia <b>s</b>	kt	1 056	1 217	239	370	301	273	328	315
Northern Territory	kt	3 032	3 854	694	768	943	979	901	1 031
Australia <b>s</b>	kt	4 088	5 071	933	1 138	1 244	1 252	1 229	1 345
Manganese content <b>s</b>	kt	1 962	2 434	448	546	597	601	590	646
<b>Exports <sup>a</sup></b>									
<b>Quantity</b>									
Manganese ore and concentrate	kt	3 215	4 667	640	1 255	1 087	1 224	1 107	1 248
<b>Value</b>									
Manganese ore and concentrate	\$m	424	482	83	143	113	124	109	136
<b>Prices</b>									
Japanese negotiated <b>b</b>	US\$/mtu	3.98	3.00	3.98	3.00	3.00	3.00	3.00	2.70
	A\$/t	256.19	183.51	259.41	193.39	190.53	187.38	183.53	156.17

**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	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production as</b>									
<b>Mine</b>									
Nickel content									
Western Australia	kt	186	191	42	45	47	51	47	46
Australia	kt	186	191	42	45	47	51	47	46
<b>Smelter and refinery</b>									
Intermediate nickel	kt	74	61	7	12	14	16	15	16
Refined nickel, class 1 b	kt	105	102	27	23	27	28	23	24
Refined nickel, class 2 c	kt	10	15	3	3	2	3	5	5
<b>Exports s</b>									
<b>Quantity</b>									
Nickel d	kt	198	218	45	46	51	59	52	55
<b>Value</b>									
Ores and concentrates	\$m	646	1 274	116	154	202	349	327	396
Intermediate products e	\$m	500	1 772	93	195	322	405	489	555
Refined nickel, class 1 b	\$m	2 149	4 852	538	611	1 055	1 195	1 202	1 399
Refined nickel, class 2 c	\$m	161	563	39	58	71	110	178	204
Total	\$m	3 457	8 461	786	1 018	1 650	2 060	2 197	2 554
<b>Imports</b>									
<b>Value</b>									
Primary nickel products f	\$m	128	257	13	49	41	77	54	84
<b>Prices</b>									
LME cash g	US\$/t	15 488	37 924	14 807	19 925	29 141	33 134	41 439	47 982
	A\$/t	20 778	48 330	20 115	26 759	38 558	43 116	52 813	57 821

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	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Field</b>									
Crude oil s	ML	17 246	21 432	3 660	3 921	5 763	5 686	4 791	5 193
Condensate s	ML	7 069	7 411	1 685	1 547	1 902	1 894	1 789	1 827
Total s	ML	24 315	28 844	5 345	5 467	7 665	7 580	6 580	7 019
Production rate s	'000 bbl/day	425	504	374	382	536	530	460	491
LPG	ML	4 722	4 567	1 056	1 208	1 293	1 143	1 054	1 077
Ethane a	Mm <sup>3</sup>	456	591	104	120	128	112	98	253
Natural gas a	Mm <sup>3</sup>	38 016	39 406	8 591	10 207	10 275	9 810	9 142	10 179
<b>Refinery</b>									
Refinery input	ML	36 895	39 453	9 427	8 677	9 340	10 394	9 874	9 845
<b>Refinery output</b>									
LPG	ML	1 125	1 387	298	270	348	385	343	311
Automotive gasoline	ML	16 528	17 733	4 090	4 059	4 412	4 529	4 263	4 528
Aviation gasoline	ML	119	175	36	31	31	33	23	88
Aviation turbine fuel	ML	5 216	5 276	1 257	1 235	1 319	1 449	1 277	1 232
Kerosine	ML	12	1	7	2	0	0	0	1
Heating oil	ML	102	86	17	41	39	12	16	20
Automotive diesel oil	ML	10 154	11 055	2 345	2 226	2 315	2 659	2 908	3 173
Industrial and marine diesel fuel	ML	31	21	4	5	5	7	5	5
Fuel oil (excl. refinery fuel)	ML	1 048	942	299	263	247	219	216	260
Lubricating oil basestock	ML	163	146	49	39	35	41	31	39
Bitumen	ML	831	1 356	191	237	210	459	352	336
Other products	ML	946	616	242	195	127	210	123	156
Total	ML	36 274	38 545	8 834	8 605	9 086	10 001	9 558	10 150
<b>Sales</b>									
LPG									
Automotive use b	ML	2 681	2 480	620	587	640	625	611	604
Total	ML	4 167	4 159	877	1 036	1 132	978	979	1 069
Automotive gasoline									
Lead replacement c	ML	15	0	0	0	0	0	0	0
Premium unleaded	ML	1 867	1 818	470	422	427	475	467	449
Regular unleaded	ML	15 962	15 883	3 969	3 887	4 040	4 069	3 928	3 845
Other unleaded d	ML	1 204	1 537	317	288	324	380	413	421
Total	ML	19 048	19 239	4 756	4 597	4 792	4 923	4 808	4 716
Aviation gasoline	ML	86	90	20	22	23	22	21	23
Aviation turbine fuel	ML	5 359	5 837	1 390	1 394	1 487	1 519	1 416	1 416
Kerosine	ML	27	32	8	8	6	2	13	11
Heating oil	ML	25	15	3	9	5	1	3	5
Automotive diesel oil	ML	15 804	17 016	3 838	4 077	4 131	4 419	4 144	4 322
Industrial and marine diesel fuel	ML	19	15	5	5	5	5	2	3
Fuel oil	ML	1 586	1 513	403	376	373	371	394	375
Lubricating oil and greases	ML	451	421	105	115	107	108	103	104
Bitumen	ML	805	808	236	203	162	240	226	180
Other products	ML	973	699	233	230	230	233	173	63
Total	ML	48 352	49 843	11 876	12 072	12 452	12 821	12 283	12 286

continued

17 petroleum continued

	Unit	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Exports</b>									
<b>Quantity</b>									
Crude oil and other refinery feedstock									
China	ML	404	518	104	98	100	104	206	108
Chinese Taipei	ML	346	446	8	0	105	215	7	119
Japan	ML	2 201	1 957	618	387	466	466	543	481
Korea, Rep. of	ML	2 725	3 873	588	408	647	1 243	1 394	588
New Zealand	ML	465	1 041	62	71	340	68	237	396
Singapore	ML	3 110	3 760	627	557	1 297	1 072	669	722
United States	ML	297	190	0	0	92	99	0	0
Other	ML	3 478	4 181	862	865	1 016	949	895	1 321
Total	ML	13 026	15 965	2 867	2 386	4 063	4 216	3 951	3 735
LNG	Mt	12.50	15.20	2.99	3.60	3.45	3.90	3.95	3.90
LPG	ML	2 800	2 824	602	656	731	814	593	686
Refinery products									
Automotive gasoline	ML	714	772	178	122	243	200	135	195
Aviation turbine fuel	ML	127	120	46	0	27	43	23	27
Diesel fuel <b>d</b>	ML	419	288	240	4	87	55	90	56
Fuel oil	ML	490	209	217	89	32	60	73	44
Aviation gasoline	ML	85	81	24	32	56	10	8	7
Lubricants	ML	179	240	35	42	39	57	50	94
Other products	ML	89	77	21	20	22	15	22	17
Total	ML	2 102	1 786	762	311	505	440	401	440
Ships' and aircraft stores									
Aviation turbine fuel	ML	1 893	1 893	473	473	473	473	473	473
Fuel oil	ML	259	252	64	64	64	63	63	63
Other products	ML	11	11	2	3	3	2	2	3
Total	ML	2 163	2 156	540	540	540	539	538	539
<b>Value</b>									
Crude oil and other refinery feedstock									
	\$m	6 638	8 313	1 506	1 379	2 316	2 070	1 922	2 004
LNG	\$m	4 416	5 222	1 060	1 290	1 362	1 396	1 275	1 189
LPG	\$m	1 002	1 038	254	237	288	275	218	257
Refinery products									
Automotive gasoline	\$m	419	468	99	83	150	108	78	132
Aviation turbine fuel	\$m	80	74	30	0	17	27	13	16
Diesel fuel <b>d</b>	\$m	238	188	136	4	64	34	54	36
Fuel oil	\$m	215	84	96	42	13	24	29	19
Aviation gasoline	\$m	54	69	14	21	48	8	7	6
Lubricants	\$m	139	160	30	36	32	37	35	57
Other products	\$m	52	57	12	14	17	14	13	12
Total	\$m	1 195	1 100	418	201	342	252	229	278
Total	\$m	13 251	15 673	3 239	3 108	4 309	3 993	3 644	3 727
Ships' and aircraft stores									
Aviation turbine fuel	\$m	1 206	1 176	313	328	326	276	284	290
Fuel oil	\$m	107	108	28	29	29	27	26	26
Other products	\$m	9	11	1	3	3	2	2	3
Total	\$m	1 322	1 295	343	360	358	305	312	320

continued

17 petroleum continued

	Unit	2005-06	2006-07 <sup>p</sup>	Quarter					
				2005-06		2006-07 <sup>p</sup>			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Imports</b>									
<b>Quantity</b>									
Crude oil and other refinery feedstock									
Indonesia	ML	3 929	3 395	783	982	551	885	1 119	840
Malaysia	ML	3 976	3 716	1 330	924	585	905	947	1 279
Middle East									
Qatar	ML	0	106	0	0	0	0	106	0
Saudi Arabia	ML	1 602	1 147	606	325	190	354	389	214
United Arab Emirates	ML	863	2 972	284	325	876	489	592	1 014
Other	ML	199	118	103	0	76	42	0	0
Total Middle East	ML	2 664	4 343	993	649	1 142	885	1 087	1 228
New Zealand	ML	638	632	207	156	92	99	173	268
Papua New Guinea	ML	2 386	2 059	827	404	472	472	572	543
Singapore	ML	829	846	216	168	160	282	185	219
Viet Nam	ML	6 708	6 710	1 727	1 841	2 057	1 652	1 745	1 256
Other	ML	3 286	3 643	597	882	861	1 051	773	958
Total	ML	24 416	25 344	6 680	6 006	5 921	6 230	6 600	6 592
Refined products									
LPG	ML	599	745	83	257	177	254	78	236
Automotive gasoline	ML	3 687	2 916	920	1 020	547	823	830	715
Aviation turbine fuel	ML	817	1 031	222	224	262	177	292	300
Diesel fuel <sup>d</sup>	ML	6 122	5 421	1 650	1 823	1 311	1 342	1 113	1 654
Fuel oil	ML	1 418	1 364	361	309	290	269	353	452
Lubricants	ML	370	365	70	95	99	81	93	92
Other products	ML	2 111	6 414	488	1 209	1 502	1 516	1 616	1 780
Total	ML	15 124	18 257	3 793	4 936	4 188	4 462	4 377	5 230
<b>Value</b>									
Crude oil and other refinery feedstock									
	\$m	12 820	13 353	3 514	3 553	3 528	3 061	3 197	3 567
Refined products									
LPG	\$m	198	258	30	85	65	85	27	81
Automotive gasoline	\$m	2 342	1 872	555	753	407	481	493	490
Aviation turbine fuel	\$m	527	658	141	161	191	108	173	186
Diesel fuel <sup>d</sup>	\$m	4 071	3 466	1 073	1 375	954	819	636	1 059
Fuel oil	\$m	569	535	146	144	123	101	129	182
Lubricants	\$m	418	495	90	124	132	118	125	120
Other products	\$m	637	1 285	178	237	298	308	320	359
Total	\$m	8 761	8 570	2 214	2 880	2 169	2 021	1 902	2 477
Total	\$m	21 581	21 923	5 728	6 432	5 697	5 082	5 099	6 044
<b>Prices</b>									
Dubai	US\$/bbl	58.30	60.59	58.48	65.35	66.40	57.63	54.03	64.30
West Texas intermediate	US\$/bbl	64.22	63.02	63.27	70.41	70.42	59.96	57.20	64.50
Brent	US\$/bbl	62.44	63.40	61.75	69.53	69.62	59.68	56.80	67.50
Tapis	US\$/bbl	66.72	69.32	67.49	73.77	75.43	63.32	63.55	74.99
World trade weighted average	US\$/bbl	57.25	59.37	56.28	63.87	65.70	54.99	52.50	64.30
	A\$/bbl	76.80	75.66	76.45	85.78	86.93	71.56	66.91	77.48

<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) <sup>a</sup> ML	Ethane <sup>a</sup> Mm <sup>3</sup>	Natural gas <sup>a</sup> Mm <sup>3</sup>
			ML	'000 bbl/day			
<b>March quarter 2007</b>							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	1.9
Amadeus	13.0	0.0	13.0	0.9	0.0	0.0	127.5
Bonaparte	351.4	98.5 <b>s</b>	449.9 <b>s</b>	31.4 <b>s</b>	0.0	0.0	0.0
Bowen-Surat	4.8	4.3	9.1	0.6	6.3	0.0	131.2
Canning	0.6	0.0	0.6	0.0	0.0	0.0	0.0
Carnarvon							
Barrow Island	93.4	8.5	101.8	7.1	0.0	0.0	301.2
North West Shelf	1 248.4 <b>s</b>	1 428.8	2 677.2 <b>s</b>	187.1 <b>s</b>	516.2	0.0	6 030.8
Other	1 532.6 <b>s</b>	21.1	1 553.7 <b>s</b>	108.6 <b>s</b>	0.0	0.0	248.1
Cooper-Eromanga							
Queensland	187.2	37.9	225.1	15.7	0.0	0.0	0.0
South Australia	322.8	48.1	370.9	25.9	125.2	59.0	756.4
Gippsland	834.9	141.0	975.8	68.2	406.4	39.4	1 467.0
Otway	0.0	0.4	0.4	0.0	0.0	0.0	6.0
Perth	201.6	0.6	202.2	14.1	0.0	0.0	71.9
Total	4 790.6 <b>s</b>	1 789.1 <b>s</b>	6 579.7 <b>s</b>	459.8 <b>s</b>	1 054.1	98.4	9 141.8
<b>June quarter 2007 <sup>p</sup></b>							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amadeus	13.0	0.0	13.0	0.9	0.0	0.0	126.3
Bonaparte	234.0	98.5 <b>s</b>	332.5 <b>s</b>	23.2 <b>s</b>	0.0	0.0	0.0
Bowen-Surat	6.2	5.6	11.9	0.8	6.6	0.0	133.7
Canning	0.6	0.0	0.6	0.0	0.0	0.0	0.0
Carnarvon							
Barrow Island	94.5	0.0	94.5	6.6	0.0	0.0	500.6
North West Shelf	1 392.4 <b>s</b>	1 342.4	2 734.8 <b>s</b>	191.1 <b>s</b>	412.4	0.0	5 956.8
Other	1 835.7 <b>s</b>	31.4	1 867.0 <b>s</b>	130.5 <b>s</b>	0.0	0.0	223.5
Cooper-Eromanga							
Queensland	202.6	37.7	240.3	16.8	0.0	0.0	0.0
South Australia	246.8	63.8	310.6	21.7	124.4	60.3	860.4
Gippsland	965.1	246.2	1 211.3	84.7	533.7	192.3	2 304.7
Otway	0.0	0.5	0.5	0.0	0.0	0.0	6.9
Perth	201.7	0.5	202.3	14.1	0.0	0.0	66.5
Total	5 192.6 <b>s</b>	1 826.6 <b>s</b>	7 019.2 <b>s</b>	490.6 <b>s</b>	1 077.1	252.6	10 179.3
<b>2006-07</b>							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	7.7
Amadeus	52.6	0.0	52.6	0.9	0.0	0.0	509.4
Bonaparte	1 736.1	394.0 <b>s</b>	2 130.1 <b>s</b>	37.2 <b>s</b>	0.0	0.0	0.0
Bowen-Surat	21.4	20.8	42.2	0.7	24.7	0.0	558.3
Canning	2.4	0.0	2.4	0.0	0.0	0.0	0.0
Carnarvon							
Barrow Island	389.7	8.5	398.1	7.0	0.0	0.0	1 937.3
North West Shelf	5 848.7 <b>s</b>	5 692.2	11 540.9 <b>s</b>	201.6 <b>s</b>	2 067.3	0.0	23 802.9
Other	7 043.9 <b>s</b>	134.2	7 178.1 <b>s</b>	125.4 <b>s</b>	0.0	0.0	1 145.2
Cooper-Eromanga							
Queensland	791.3	169.4	960.7	16.8	0.0	0.0	0.0
South Australia	1 131.7	244.1	1 375.9	24.0	567.2	259.0	3 639.4
Gippsland	3 598.1	743.8	4 341.9	75.9	1 907.8	331.7	7 415.9
Otway	0.0	1.8	1.8	0.0	0.0	0.0	76.6
Perth	816.4	2.6	819.0	14.3	0.0	0.0	313.1
Total	21 432.2 <b>s</b>	7 411.4 <b>s</b>	28 843.7 <b>s</b>	504.0 <b>s</b>	4 567.0	590.7	39 405.7

<sup>a</sup> Commercial sales plus field and plant usage. <sup>p</sup> 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>June quarter 2007 p</b>								
<b>LPG <sup>b</sup></b>								
Automotive use <sup>c</sup>	158	260	76	46	58	5	1	604
Total	313	403	156	81	94	16	5	1 069
Automotive gasoline								
Premium unleaded	143	99	107	53	26	16	5	449
Regular unleaded	1 208	970	850	400	291	93	34	3 845
Other unleaded <sup>d</sup>	149	87	137	28	17	2	0	421
Total	1 500	1 157	1 095	481	334	111	39	4 716
Of which sales to retailers	1 173	917	699	397	251	50	16	3 503
Aviation gasoline	4	3	7	4	1	0	2	23
Aviation turbine fuel	637	211	307	164	55	7	35	1 416
Kerosine	1	1	6	1	0	0	0	11
Heating oil	2	1	0	0	1	0	0	5
Automotive diesel oil	900	693	1 227	967	304	91	140	4 322
Of which sales to retailers	299	273	282	174	66	9	12	1 113
Industrial and marine diesel fuel	2	0	1	0	0	0	0	3
Fuel oil <sup>e</sup>	123	64	26	41	0	4	117	375
Lubricating oil and greases	27	23	28	15	7	2	1	104
Bitumen	34	43	66	20	13	3	1	180
Other products <sup>f</sup>	28	8	19	5	3	0	0	63
Total	3 572	2 608	2 939	1 779	813	234	341	12 286
<b>2006-07</b>								
<b>LPG <sup>b</sup></b>								
Automotive use <sup>c</sup>	713	974	376	173	218	20	5	2 480
Total	1 241	1 497	686	316	333	65	21	4 159
Automotive gasoline								
Premium unleaded	590	393	427	218	108	66	16	1 818
Regular unleaded	4 962	4 041	3 494	1 662	1 202	393	129	15 883
Other unleaded <sup>d</sup>	545	347	480	98	61	7	0	1 537
Total	6 097	4 780	4 401	1 978	1 371	465	146	19 239
Of which sales to retailers	4 912	3 743	2 958	1 690	1 049	215	56	14 623
Aviation gasoline	16	15	27	17	6	2	8	90
Aviation turbine fuel	2 376	1 085	1 099	881	194	31	171	5 837
Kerosine	5	4	20	2	0	1	1	32
Heating oil	5	3	1	0	3	3	0	15
Automotive diesel oil	3 617	2 753	4 878	3 727	1 133	360	547	17 016
Of which sales to retailers	1 225	1 105	1 067	672	258	39	35	4 401
Industrial and marine diesel fuel	8	0	6	0	0	0	0	15
Fuel oil <sup>e</sup>	484	252	103	168	0	19	486	1 513
Lubricating oil and greases	109	92	119	59	29	7	5	421
Bitumen	177	180	279	98	52	17	5	808
Other products <sup>f</sup>	98	497	75	18	10	1	1	699
Total	14 233	11 159	11 695	7 263	3 130	971	1 392	49 843

<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	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
Single superphosphate <b>as</b>	kt	1 309	938	142	395	246	291	111	290
<b>Imports</b>									
<b>Quantity</b>									
Phosphate rock									
China	kt	86	23	5	19	1	0	22	1
Morocco	kt	405	340	0	147	104	127	17	92
Nauru	kt	0	27	0	0	0	0	0	27
Togo	kt	48	0	48	0	0	0	0	0
Other	kt	116	79	17	31	18	18	17	25
Total	kt	655	469	71	198	123	146	55	145
Phosphates									
Diammonium <b>b</b>	kt	202	83	97	56	0	0	54	29
Monammonium <b>c</b>	kt	528	443	217	98	50	11	239	143
High analysis <b>d</b>	kt	310	166	113	51	6	3	50	107
<b>Value</b>									
Phosphate rock	\$m	42	32	4	13	8	8	4	11
Phosphates									
Diammonium <b>b</b>	\$m	74	32	35	20	0	0	19	13
Monammonium <b>c</b>	\$m	190	182	80	35	19	4	89	69
High analysis <b>d</b>	\$m	59	54	20	11	2	1	11	40
<b>Prices</b>									
Australia <b>e</b>	A\$/t	16.17	14.75	18.19	14.69	15.11	17.40	12.98	13.53

**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	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
Queensland <b>s</b>	kt	0	120	0	0	30	30	30	30
Western Australia <b>a</b>	kt	10 834	na	2 626	2 875	2 310	2 905	na	na
South Australia <b>b</b>	kt	633	na	157	157	167	167	na	na
Australia <b>cs</b>	kt	11 467	11 269	2 783	3 032	2 507	3 102	2 680	2 980
<b>Exports</b>									
<b>Quantity</b>									
Bulk, bagged and table	kt	10 776	10 747	2 638	2 920	2 389	2 964	2 575	2 819
<b>Value</b>									
Bulk, bagged and table	\$m	229	239	58	65	54	62	60	62
<b>Prices</b>									
Australia <b>d</b>	A\$/t	21.29	22.24	22.07	22.33	22.73	21.08	23.33	22.04

**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	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 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	81	23	23	25	23	14	19
Queensland	t	1 862	1 347	444	373	315	253	400	379
Western Australia	t	103	85	32	23	17	24	17	27
South Australia	t	34	28	8	7	7	8	6	7
Tasmania	t	86	96	22	24	21	22	27	26
Northern Territory	t	38	38	9	7	9	10	10	9
Australia	t	2 218	1 674	538	456	393	340	474	467
<b>Refinery</b>									
Refined silver	t	655	618	145	183	141	165	156	156
<b>Exports</b>									
<b>Quantity</b>									
Refined silver bullion	t	482	431	107	114	95	104	106	126
<b>Value</b>									
Refined silver <sup>a</sup>	\$m	197	221	42	65	48	54	52	67
<b>Imports</b>									
<b>Value</b>									
Refined silver bullion	\$m	33	98	9	14	28	23	42	4
<b>Prices</b>									
World <sup>b</sup>	US\$/oz	928	1 274	969	1 229	1 170	1 262	1 331	1 334
Australia <sup>c</sup>	A\$/kg	399	520	420	528	496	526	542	515

<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/fot 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	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine</b>									
Tin content of all minerals									
Queensland s	t	282	1 912	69	213	202	607	556	548
Western Australia s	t	590	149	161	117	60	49	30	10
Tasmania	t	933	0	0	0	0	0	0	0
Australia s	t	1 805	2 061	230	330	262	656	586	558
<b>Smelter and refinery</b>									
Refined tin (primary) s									
	t	736	321	206	163	106	97	68	50
Domestic despatches s									
Tin concentrate	t	788	196	214	156	80	65	40	11
Tin content	t	590	147	161	117	60	49	30	8
<b>Exports</b>									
<b>Quantity</b>									
Tin concentrate	t	2 186	3 171	6	79	370	731	1 105	965
Refined tin	t	395	36	52	260	1	2	28	6
Tin content of primary materials exported bs									
	t	1 556	1 866	55	313	221	433	663	549
<b>Value</b>									
Tin concentrate	\$m	9	25	0	0	2	5	9	8
Refined tin	\$m	3	0	0	2	0	0	0	0
Total	\$m	12	25	0	2	2	5	9	8
<b>Imports</b>									
<b>Quantity</b>									
Refined tin	t	618	574	184	105	134	182	137	121
<b>Value</b>									
Refined tin	\$m	6	8	2	1	1	2	2	2
<b>Prices</b>									
LME c	US\$/t	7 403	11 450	7 602	8 529	8 653	10 335	12 729	14 084

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 minerals

	Unit	2005-06	2006-07 <sup>p</sup>	Quarter					
				2005-06		2006-07 <sup>p</sup>			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
Ilmenite concentrate									
New South Wales <sup>s</sup>	kt	55	155	28	27	43	32	39	40
Queensland <sup>s</sup>	kt	165	176	38	44	51	43	39	42
Western Australia	kt	1 965	2 108	494	516	538	521	523	526
Northern Territory	kt	0	2	0	0	0	0	0	1
Australia <sup>s</sup>	kt	2 185	2 440	560	588	632	598	602	609
Leucoxene concentrate									
New South Wales <sup>s</sup>	kt	14	65	0	13	10	18	11	25
Victoria	kt	0	1	0	0	0	0	0	1
Western Australia	kt	68	91	12	19	31	29	16	14
Northern Territory	kt	0	1	0	0	0	0	0	1
Australia <sup>s</sup>	kt	81	158	12	32	41	48	28	41
Rutile concentrate									
New South Wales <sup>s</sup>	kt	2	63	0	2	15	16	12	20
Victoria	kt	0	16	0	0	0	0	6	10
Queensland <sup>s</sup>	kt	70	75	19	16	21	16	17	21
Western Australia	kt	112	127	25	32	33	35	29	30
Northern Territory	kt	0	3	0	0	0	1	1	2
Australia <sup>s</sup>	kt	184	284	44	51	69	68	65	83
Synthetic rutile <sup>s</sup>	kt	711	727	184	155	183	181	178	185
Titanium dioxide pigment <sup>s</sup>	kt	208	214	53	51	49	55	55	55
<b>Exports</b>									
<b>Quantity</b>									
Ilmenite concentrate <sup>a</sup>	kt	722	999	20	303	270	312	248	169
Leucoxene concentrate	kt	86	123	2	28	28	23	46	26
Rutile concentrate <sup>s</sup>	kt	169	307	41	43	67	80	77	82
Synthetic rutile <sup>s</sup>	kt	472	508	124	96	140	131	112	126
Titanium dioxide pigment	kt	177	171	41	49	44	39	40	48
<b>Value</b>									
Ilmenite concentrate <sup>a</sup>	\$m	76	113	2	33	31	33	28	20
Leucoxene concentrate	\$m	25	35	2	6	11	7	10	8
Rutile concentrate <sup>s</sup>	\$m	138	259	34	36	56	66	64	74
Synthetic rutile <sup>s</sup>	\$m	321	361	85	67	97	91	78	96
Titanium dioxide pigment	\$m	441	408	104	121	108	96	97	107
<b>Prices <sup>b</sup></b>									
Ilmenite concentrate									
Bulk	A\$/t	106	113	108	108	116	107	115	117
Leucoxene concentrate									
Bulk	A\$/t	226	249	na	204	348	258	196	230
Bagged	A\$/t	537	679	693	666	738	677	688	639
Rutile concentrate									
Bagged	A\$/t	897	861	902	933	907	867	884	802
Titanium dioxide pigment	A\$/t	2 486	2 391	2 507	2 490	2 473	2 454	2 402	2 253

<sup>a</sup> From January 1992, bulk only. <sup>b</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; ABARE.

## 25 uranium

	Unit	2005-06	2006-07 <sup>p</sup>	Quarter					
				2005-06		2006-07 <sup>p</sup>			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine</b>									
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	t	9 974	9 594	2 486	1 642	2 127	2 715	2 081	2 670
Uranium (U content)									
South Australia	t	4 062	3 674	928	887	868	893	912	1 001
Northern Territory	t	4 396	4 461	1 180	505	935	1 409	853	1 264
Australia	t	8 458	8 135	2 108	1 392	1 804	2 302	1 765	2 264
<b>Exports <sup>a</sup></b>									
<b>Quantity</b>									
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	t	10 253	9 519	2 040	1 760	1 856	3 005	1 725	2 933
<b>Value</b>									
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )	\$m	546	660	99	115	125	194	142	198
<b>Prices</b>									
Uranium oxide (U <sub>3</sub> O <sub>8</sub> )									
Industry spot <sup>b</sup>	US\$/lb	36.79	81.17	38.83	43.33	50.00	65.00	85.00	124.67
Australia <sup>c</sup>	A\$/kg	53.24	69.28	48.42	65.37	67.40	64.61	82.43	67.54

<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 zircon

	Unit	2005-06	2006-07 <sup>p</sup>	Quarter					
				2005-06		2006-07 <sup>p</sup>			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
Zircon concentrate									
New South Wales <sup>s</sup>	kt	0	37	0	0	4	11	10	12
Victoria	kt	0	35	0	0	0	0	13	22
Queensland <sup>s</sup>	kt	52	57	13	12	15	13	13	16
Western Australia	kt	390	415	97	105	106	113	97	99
Northern Territory	kt	0	9	0	0	0	2	3	5
Australia <sup>s</sup>	kt	442	554	111	117	125	139	136	154
<b>Exports</b>									
<b>Quantity</b>									
Zircon concentrate <sup>s</sup>	kt	438	555	110	116	124	137	143	152
<b>Value</b>									
Zircon concentrate <sup>s</sup>	\$m	398	478	107	104	112	123	130	113
<b>Prices <sup>a</sup></b>									
Zircon concentrate									
All grades - bagged	A\$/t	1 055	1 111	1 029	1 113	1 130	1 147	1 130	1 058

<sup>a</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; ABARE.

## 27 zinc

	Unit	2005-06	2006-07 p	Quarter					
				2005-06		2006-07 p			
				Mar.	June	Sep.	Dec.	Mar.	June
<b>Production</b>									
<b>Mine s</b>									
Zinc ore and concentrates	kt	2 564	2 585	646	634	607	667	605	706
Zinc content of all minerals produced									
New South Wales	kt	178	147	42	44	42	45	27	33
Queensland	kt	855	843	205	212	203	204	212	224
Western Australia	kt	113	151	40	32	22	48	25	56
Tasmania	kt	89	97	23	23	22	20	25	29
Northern Territory	kt	144	140	36	30	34	36	35	36
Australia	kt	1 380	1 378	346	340	324	352	324	378
<b>Smelter and refinery</b>									
Refined zinc (primary)	kt	446	496	101	113	121	129	119	127
Domestic despatches									
Refined zinc	kt	78	87	19	21	21	25	19	22
<b>Exports</b>									
<b>Quantity</b>									
Zinc concentrates									
Belgium-Luxembourg	kt	10	51	0	0	13	11	14	13
China	kt	198	427	37	38	70	93	57	207
Germany	kt	30	36	5	10	0	31	6	0
Japan	kt	375	316	102	78	115	77	50	75
Korea, Rep. of	kt	504	346	97	134	64	111	78	93
Netherlands	kt	384	284	102	108	89	80	58	56
Spain	kt	120	261	40	9	50	84	65	63
Other	kt	201	238	29	70	41	43	80	74
Total	kt	1 821	1 959	412	447	441	531	407	580
Refined zinc									
Chinese Taipei	kt	77	79	18	20	16	25	18	21
Hong Kong, China	kt	127	103	23	34	37	24	22	19
Indonesia	kt	11	17	2	4	5	4	3	4
Malaysia	kt	32	17	4	3	4	3	7	3
New Zealand	kt	13	12	4	4	2	3	3	3
United States	kt	10	5	0	10	0	5	0	0
Other	kt	118	141	31	26	18	27	46	50
Total	kt	388	374	81	100	83	92	99	100
Zinc content of all primary materials exported <b>as</b>									
	kt	1 328	1 327	295	335	305	349	297	375
<b>Value</b>									
Zinc concentrates	\$m	1 542	2 578	387	614	609	771	499	699
Refined zinc	\$m	998	1 707	223	390	361	437	485	424
Total	\$m	2 540	4 286	610	1 004	970	1 208	984	1 124
<b>Prices</b>									
LME cash <b>b</b>	US\$/t	2 118	3 672	2 242	3 292	3 363	4 207	3 456	3 664
Australia <b>c</b>	A\$/t	2 874	4 952	2 992	4 341	4 675	5 362	5 160	4 611

**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.