



Australian mineral statistics 2009

March quarter 2009



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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 Resources, Energy and Tourism.
- 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 because of the rounding of components.

zero is used to denote nil or a negligible amount

p denotes a preliminary figure

s denotes an ABARE estimate

Australian merchandise exports: are valued on a free on board (fob) basis at the Australian port of export. The costs of freight, insurance and other distributive services beyond the Australian customs border are not included.

Australian merchandise imports: are valued on a customs value for duty (vfd) basis that is identical to a free on board (fob) basis. The customs vfd is the price actually paid at the port of origin, including inland freight and insurance costs incurred in delivering the commodity to the port of origin. The freight and insurance costs of delivering the commodity(s) to the Australian port of destination are excluded.

Accounting of international merchandise trade: the valuation of Australian merchandise exports and imports used in the accounting of international trade in the Australian Balance of Payments and the international trade statistical system are in accordance with the definitions published in the harmonised international standards determined by the International Monetary Fund, *Balance of Payments Manual* (version 5), 1993 and the United Nations, *System of National Accounts*, 1993.

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
ct	metric carat	
L	litre	1.761 pints
kL	kilolitre	1000 litres
ML	megalitre	1 000 000 litres
Mm³	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	
fort	free on truck	
cif	cost, insurance and freight	

Main features

Overview

- The index of export prices of energy and mineral resources declined by 15 per cent in the March quarter 2009, reflecting lower commodity prices for oil, metallurgical and thermal coal and the majority of metals, with the exception of gold.
- In the March quarter 2009, Australia's mineral resource export earnings declined by 18 per cent to \$38.7 billion.
- Export volumes decreased for the majority of commodities including copper, diamonds, metallurgical coal and bauxite.
- Australian production of mineral commodities was lower in the March quarter with only around 30 per cent of commodities covered recording increased production.
- The Australian dollar averaged US66.6 cents in the March quarter 2009, slightly lower than the US67.4 cents average of the previous quarter. Reflecting this, movements in the exchange rate had a negligible influence on export values in the quarter.

Prices

In the March quarter 2009, the index of export prices for Australia's energy and mineral resources (export unit returns) declined by 15 per cent compared with the December quarter 2008. Export unit returns for energy minerals decreased by 17 per cent, mainly reflecting lower export prices for oil (14 per cent), metallurgical coal (18 per cent) and thermal coal (11 per cent). The index of metals and other minerals prices decreased by 8 per cent, as export prices for most metals declined with the notable exception of gold, which increased by 14 per cent.

Compared with the March quarter 2008, the index of export prices was 42 per cent higher, as prices for energy minerals increased by 84 per cent and prices for metals and other minerals increased by 16 per cent. Higher export unit prices are partly attributable to a 26 per cent depreciation of the Australian dollar and higher contract prices for bulk commodities.

Exports

Earnings from energy and mineral resource exports decreased by 18 per cent to \$38.7 billion in the March quarter 2009 compared with the December quarter 2008. This decrease reflects falling prices for many commodities and lower export volumes.

Commodities that recorded significant declines in export earnings include: iron and steel, down \$200 million (48 per cent) to \$218 million; bauxite, down \$25 million (43 per cent) to \$33 million; diamonds, down \$68 million (42 per cent) to \$95 million; metallurgical coal, down \$4.9 billion (39 per cent) to \$7.6 billion; copper, down \$565 million (36 per cent) to \$1 billion; and LNG, down \$1.3 billion (35 per cent) to \$2.5 billion.

Australian energy and mineral exports

Percentage change December quarter 2008 to March quarter 2009

	export volume	export value	prices
crude oil a	▼ -16%	▼ -27%	▼ -29%
LNG	▼ -7%	▼ -35%	▼ -30%
LPG	▼ -8%	▼ -32%	▼ -25%
metallurgical coal	▼ -26%	▼ -39%	▼ -18%
refinery products	▲ +19%	▲ +8%	▼ -9%
thermal coal	▼ -2%	▼ -13%	▼ -11%
uranium oxide (U ₃ O ₈)	▼ -14%	▲ +19%	▲ +39%
alumina	▼ -8%	▼ -33%	▼ -27%
aluminium (ingot metal) a	▼ -2%	▼ -26%	▼ -9%
bauxite	▼ -47%	▼ -43%	▲ +5%
copper a	▼ -27%	▼ -36%	▼ -48%
diamonds	▼ -42%	▼ -42%	—
gold a	▲ +17%	▲ +39%	▲ +14%
iron and steel	▲ +4%	▼ -48%	▼ -50%
iron ore and pellets	▲ +13%	▲ +3%	▼ -9%
lead a	▼ -23%	▼ -32%	▼ -12%
manganese ore and concentrate	▲ +150%	▲ +3%	▼ -59%
nickel a	▼ -14%	▼ -16%	▼ -4%
silver a	▼ -4%	▼ -20%	▲ +24%
tin a	▲ +85%	▲ +46%	▼ -16%
titanium and zircon	▲ +14%	▲ +8%	▼ -5%
zinc a	▼ -18%	▼ -23%	▼ -1%

a Prices in US dollars. All other prices are export unit values denominated in Australian dollars.

Lower export values for metallurgical coal, copper and LNG reflect both lower export volumes and export unit values. Export values for bauxite and diamonds declined during the quarter because of lower export volumes, while export unit values were relatively stable. Higher iron and steel export volumes were more than offset by lower export prices resulting in declining export earnings.

Commodities that recorded significant increases in export earnings in the March quarter 2009 include: rutile concentrate, up \$34 million (53 per cent) to \$98 million; refined gold, up \$1.5 billion (39 per cent) to \$5.4 billion; uranium oxide (U₃O₈), up \$47 million (19 per cent) to \$293 million; synthetic rutile, up \$9 million (15 per cent) to \$68 million; ilmenite concentrate, up \$5 million (14 per cent) to \$42 million; and petroleum refinery products, up \$16 million (8 per cent) to \$210 million.

Increased export values for refined gold and rutile concentrate are driven by both higher export volumes and higher prices. The export value of ilmenite concentrate and petroleum refinery products increased in the quarter, as higher export volumes more than compensated for declines in export unit values. The export value of uranium oxide and synthetic rutile increased as a sharp rise in the export unit value more than offset lower export volumes.

Production

Production was lower in the March quarter 2009 compared with the December quarter 2008, with only around 30 per cent of commodities recording production increases. Significant production declines occurred for: intermediate nickel (45 per cent); refined nickel class 2 (40 per cent); refinery liquefied petroleum gas (LPG) (38 per cent); mined silver (36 per cent); iron and steel (35 per cent); and zinc ores and concentrates (24 per cent).

Intermediate and refined nickel class 2 production declined in the March quarter, partly reflecting the closure of BHP Billiton's Ravensthorpe mine and reduced production at the company's Mount Keith operation. Mined silver production declined because of lower production at BHP Billiton's Cannington mine and at OZ Minerals' Century mine. Reduced production at BlueScope's Port Kembla steelworks was the primary driver of lower raw steel production in the March quarter. Mined zinc production was lower in the quarter as OZ Minerals' Century and Golden Grove operations experienced declining production.

Increased production was observed for mined tin (62 per cent); refined gold (45 per cent); refined nickel class 1 (22 per cent); rutile concentrate (10 per cent); and zircon concentrate (7 per cent).

Mined tin production was higher in the quarter, reflecting the continued ramp up of capacity at Metals X's Renison operation, having started production in the September quarter 2008. Production of refined gold increased in the March quarter, primarily because of an increased availability of overseas scrap for refining in Australia. Higher production of refined nickel class 1 reflected higher output from BHP Billiton's Kwinana refinery. Increased production of rutile and zircon concentrates reflected higher production at Iluka's mineral sands operations.

Commodity highlights

Energy

Oil and gas

In the March quarter 2009, Australia's production of crude oil and condensate was 6.9 gegalitres, 9 per cent lower than in the December quarter 2008 but 16 per cent higher year on year. Natural gas production was also lower in the March quarter, declining by 4 per cent to around 9.7 billion cubic metres. Lower oil and gas production reflects adverse seasonal weather conditions off the north-west coast of Western Australia. This was partly offset by an increase in crude oil production from the Cooper-Eromanga basin in South Australia and increased gas production from the Fairview coal seam methane field in Queensland.

In line with lower production, export volumes of crude oil decreased by 16 per cent to 4 gegalitres. Export earnings from crude oil in the March quarter 2009 decreased by 27 per cent to \$1.6 billion. Export earnings from LNG also decreased by 35 per cent to \$2.5 billion from the December quarter 2008, reflecting a reduction in export volumes and prices.

Coal

Production of salable and raw black coal is estimated to have decreased in the quarter. Black coal export volumes also decreased by 14 per cent to 58 million tonnes.

In the March quarter, export unit values for thermal coal declined by 11 per cent, reflecting lower spot prices. The combination of lower export prices and the decrease in export volumes resulted in export earnings decreasing by 13 per cent to \$5 billion. Export unit values for metallurgical coal declined by 18 per cent in the March quarter, reflecting increasing volumes sold at a discount to contract prices. Weaker global demand for steel-making raw materials was reflected by a 26 per cent decline in export volumes for metallurgical coal, which contributed to a 39 per cent decline in export earnings to \$7.6 billion.

Uranium

Australia's uranium production declined by 14 per cent to 2297 tonnes U_3O_8 in the March quarter, as production at both Energy Resources Australia's Ranger operation and BHP Billiton's Olympic Dam declined as lower grade ore was processed. Uranium export earnings increased by 19 per cent to \$293 million in the quarter as a significant increase in average export prices offset a 14 per cent fall in export volumes.

Metals and other minerals

Iron ore

Despite interruptions caused by heavy rain at Rio Tinto's and Fortescue's Pilbara operations, iron ore production remained flat in the March quarter 2009 compared with the December quarter 2008. However, export volumes increased by 13 per cent in the March quarter 2009. This increase more than offset a decline in the export unit value, resulting in a 3 per cent increase in iron ore export earnings to \$9 billion.

Gold

Gold mine production remained unchanged at 54 tonnes in the March quarter, while refined production grew strongly by 45 per cent to 129 tonnes. A three-fold increase in the volume of overseas sourced scrap refined in Australia for re-exporting was the main contributor to higher export volumes in the quarter. A strong rise in the US dollar denominated gold price and a modest depreciation of the Australian dollar led to an 14 per cent increase in unit export values. As a result of both increased export volumes and a higher Australian dollar denominated gold price, export earnings increased by 39 per cent to \$5.4 billion in the March quarter 2009.

Copper

Copper mine production declined by 13 per cent in the quarter, partly attributable to lower production at Xstrata's Ernest Henry and Mount Isa mines and a number of other smaller operations. Reflecting lower mine production and the closure of some SX-EW capacity in the quarter, refined production declined by 19 per cent to 109 tonnes. Export volumes fell by 27 per cent in the March quarter. This combined with lower export prices resulted in the value of copper exports declining by 36 per cent to \$1 billion.

Nickel

Nickel mine production declined by 10 per cent in the March quarter to 44 000 tonnes, as a result of a number of mine closures during the December 2008 and March 2009 quarters. These closures also affected production of intermediate products and class 2 refined nickel, with production of both down by more than 40 per cent. However, class 1 refined nickel production increased by 22 per cent, to 28 500 tonnes, as production at BHP Billiton's Kwinana refinery resumed full production following disruptions in the September quarter 2008. Nickel export volumes declined by 14 per cent as a result of lower production of ores and concentrates, and intermediate products. Export values declined by 16 per cent as lower nickel prices reinforced the effects of falling export volumes.

Zinc

Zinc mine production fell by 24 per cent to 298 000 tonnes in the March quarter 2009 compared with the December quarter 2008. Lower production at a number of mines contributed to this decline, with the largest falls occurring at Oz Minerals' Golden Grove and Century mines, and Xstrata's Mount Isa operation. The value of zinc exports declined by 23 per cent to \$358 million in the March quarter 2009, mainly attributable to a 18 per cent fall in the volume of zinc exports.

Quarterly export summary

Australian minerals and energy sector

		export volume				export value			
		Mar 08 to Mar 09		Dec 08 to Mar 09		Mar 08 to Mar 09		Dec 08 to Mar 09	
		Mar	change	Mar	change	Mar	change	Mar	change
		kt	%	kt	%	\$m	%	\$m	%
Bauxite	kt	1 157	-42	-47	Bauxite s	\$m	33	-43	-43
Alumina a	kt	4 056	6	-8	Alumina a	\$m	1 356	1	-33
Aluminium (ingot metal)	kt	434	5	-2	Aluminium (ingot metal)	\$m	1 034	-15	-26
Coal, black					Coal, black				
Metallurgical	Mt	24	-20	-26	Metallurgical	\$m	7 627	163	-39
Thermal	Mt	35	16	-2	Thermal	\$m	4 984	136	-13
Copper b	kt	168	-12	-27	Copper e	\$m	1 013	-42	-36
Diamonds c	'000 ct	3 175	40	-42	Diamonds cs	\$m	95	-32	-42
Gold	t	124	39	17	Gems, other than diamonds	\$m	15	-19	36
Iron					Gold, refined	\$m	5 384	89	39
Iron ore and pellets	kt	78 195	6	13	Iron				
Iron and steel	kt	413	-17	4	Iron ore and pellets	\$m	8 985	81	3
Lead b	kt	126	15	-23	Iron and steel	\$m	218	-36	-48
Manganese ore and concentrate s	kt	707	-42	150	Lead e	\$m	319	-10	-32
Nickel d	kt	50	-8	-14	Magnesia	\$m	19	10	-39
Petroleum					Manganese ore and concentrate s	\$m	250	-34	3
Crude oil and other refinery feedstock	ML	4 044	2	-16	Nickel es	\$m	534	-65	-16
LNG	Mt	4	14	-7	Petroleum				
LPG	ML	549	-8	-8	Crude oil and other refinery feedstock	\$m	1 623	-37	-27
Refinery products	ML	342	-25	19	LNG	\$m	2 492	62	-35
Salt	kt	2 748	1	1	LPG	\$m	196	-35	-32
Tin b	t	1 651	27	85	Refinery products	\$m	210	-41	8
Titanium					Salt	\$m	59	-1	0
Ilmenite concentrate	kt	389	51	23	Silver, refined	\$m	58	5	-20
Leucoxene concentrate	kt	2	-20	-63	Tin e	\$m	26	40	46
Rutile concentrate	kt	148	45	28	Titanium				
Synthetic rutile s	kt	127	1	-1	Ilmenite concentrate s	\$m	42	37	14
Titanium dioxide pigment	kt	26	-39	-10	Leucoxene concentrate	\$m	1	-24	-80
Uranium oxide (U₃O₈)	t	2 172	-9	-14	Rutile concentrate	\$m	98	37	53
Zinc b	kt	294	-12	-18	Synthetic rutile s	\$m	68	-8	15
Zircon concentrate	kt	174	8	4	Titanium dioxide pigment	\$m	85	-7	-11
					Uranium oxide (U₃O₈)	\$m	293	70	19
					Zinc e	\$m	358	-44	-23
					Zircon concentrate e	\$m	134	25	-2
					Other mineral resources f	\$m	1 093	-16	-31
					Total mineral resources g	\$m	38 685	41	-18
					Total merchandise	\$m	56 257	31	-16
					Total goods and services	\$m	70 275	25	-13

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.

Quarterly production summary

Australian minerals and energy sector

		March	March 2008 to March 2009 % change	December 2008 to March 2009 % change
Bauxite	kt	16 179	2	-3
Alumina	kt	4 810	0	-4
Aluminium (ingot metal)	kt	485	0	-3
Coal				
Black, raw	Mt	105	14	-11
Black, salable	Mt	81	10	-11
Copper				
Mine a s	kt	198	-3	-13
Blister b	kt	101	15	-17
Refined	kt	109	8	-19
Diamonds	'000 ct	4579	101	-16
Gold				
Mine a s	t	54	6	0
Refined	t	129	30	45
Iron				
Iron ore and concentrate	kt	80 409	1	1
Iron and steel	kt	865	-46	-38
Raw steel	kt	1 136	-43	-33
Lead				
Mine a s	kt	122	-28	-27
Bullion b	kt	32	-22	-18
Refined	kt	45	-14	-20
Manganese	kt	737	-41	-17
Nickel				
Mine a s	kt	44	-10	-10
Intermediate	kt	6	-54	-45
Refined, class 1	kt	29	4	22
Refined, class 2	kt	3	-25	-40
Petroleum, field				
Crude oil and condensate	ML	6 851	16	-9
LPG (naturally occurring)	ML	870	5	-7
Natural gas	Mm ³	9 656	7	-4
Total refined petroleum	ML	9 620	3	-5
Salt	kt	2 804	1	0
Silver				
Mine a s	t	351	-30	-36
Refined	t	186	26	-1
Tin				
Mine a s	t	1439	198	62
Titanium				
Ilmenite concentrate	kt	445	-18	-13
Leucoxene concentrate	kt	43	65	5
Rutile concentrate	kt	89	5	10
Synthetic rutile s	kt	190	23	3
Titanium dioxide pigment	kt	57	14	4
Uranium oxide (U ₃ O ₈)	t	2297	-8	-14
Zinc				
Mine a s	kt	298	-18	-24
Refined	kt	126	4	0
Zircon concentrate	kt	146	-1	7

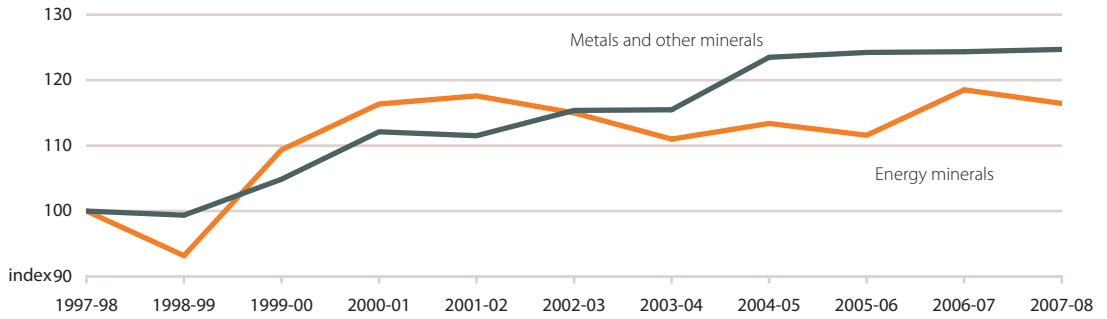
a Total metallic content of minerals produced. **b** Metallic content. **p** Preliminary. **s** ABARE estimate. **na** Not available.

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

Resources sector indicators

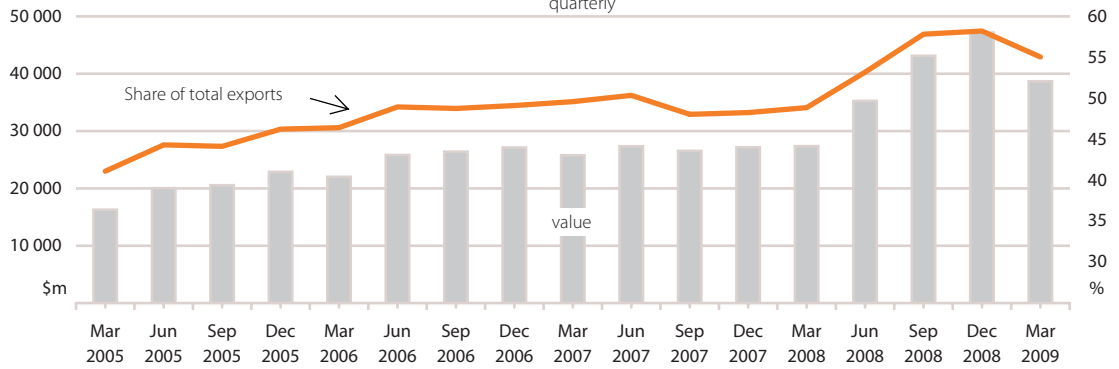
Mine production

base: 1997-98 = 100



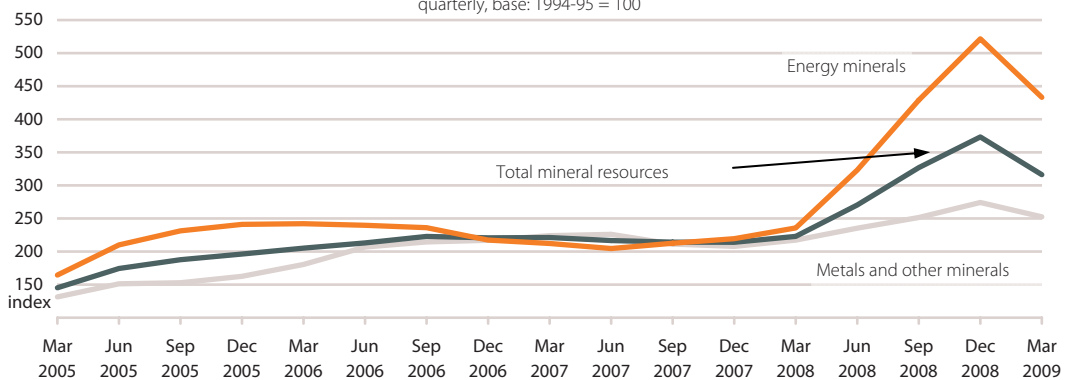
Mineral resources exports

quarterly



Export unit returns

quarterly, base: 1994-95 = 100



1 Production summary

		2006-07	2007-08 ^p	quarter					
				2007-08 ^p			2008-09 ^p		
				Dec	Mar	June	Sept	Dec	Mar
Bauxite	kt	62 684	63 463	16 063	15 905	16 069	15 982	16 677	16 179
Alumina	kt	18 506	19 359	4 924	4 792	4 841	4 813	5 000	4 810
Aluminium (ingot metal)	kt	1 954	1 964	494	486	491	498	499	485
Coal									
Black, raw	Mt	414	421	103	92	112	109	118	105 ^s
Black, salable	Mt	325	327	80	74	87	83	91	81 ^s
Brown ^{as}	Mt	66	72	na	na	na	na	na	na
Copper									
Mine ^{bs}	kt	859	863	238	205	219	235	227	198
Blister ^c	kt	389	395	108	88	119	120	122	101
Refined ^s	kt	435	444	120	101	134	134	134	109
Diamonds	'000 ct	24 632	16 528	6 145	2 277	3 126	4 839	5 428	4 579
Gold									
Mine ^{bs}	t	251	228	63	51	54	55	54	54
Refined	t	360	364	100	99	81	92	89	129
Iron									
Iron ore and concentrate	kt	287 693	324 693	81 733	79 935	88 835	93 445	79 439	80 409
Iron and steel ^s	Mt	8 010	8 121	2 006	2 010	2 047	1 966	1 754	1 136
Lead									
Mine ^{bs}	kt	642	641	160	169	154	157	165	121
Bullion ^c	kt	114	152	34	41	42	44	39	32
Refined	kt	191	203	51	52	56	56	56	45
Manganese ^s	kt	5 071	5 436	1 360	1 254	1 468	1 233	883	737
Nickel									
Mine ^{bs}	kt	191	190	47	49	50	52	49	44
Intermediate	kt	57	45	12	13	7	0	11	6
Refined, class 1	kt	104	105	25	27	26	13	23	28
Refined, class 2	kt	15	15	3	4	6	4	5	3
Petroleum, field									
Crude oil and condensate ^s	ML	28 555	25 537	6 489	5 923	6 598	6 968	7 491	6 851
LPG (naturally occurring)	ML	4 550	3 971	1 002	829	994	1 056	934	870
Natural gas	Mm ³	39 331	39 283	10 031	8 989	9 582	9 631	10 054	9 656
Petroleum, total refinery	ML	38 795	39 575	10 084	9 368	9 780	9 945	10 131	9 620
Salt ^s	kt	10 857	11 243	2 764	2 790	2 790	2 799	2 799	2 804
Silver									
Mine ^{bs}	t	1 674	1 867	464	500	429	451	546	351
Refined	t	618	605	138	148	145	183	188	186
Tin									
Mine ^{bs}	t	2 061	1 631	536	483	221	192	887	1 439
Refined ^s	t	321	0	0	0	0	0	0	0
Titanium ^s									
Ilmenite concentrate	kt	2 383	2 205	592	545	493	493	511	445
Leucoxene concentrate	kt	169	156	40	26	51	40	41	43
Rutile concentrate	kt	279	333	90	85	77	82	81	89
Synthetic rutile	kt	729	672	182	155	155	188	185	190
Titanium dioxide pigment	kt	207	201	52	50	45	49	55	57
Uranium oxide (U ₃ O ₈)	t	9 594	10 101	2 921	2 485	2 222	2 624	2 659	2 297
Zinc									
Mine ^{bs}	kt	1 375	1 571	423	365	391	370	393	298
Refined	kt	496	507	129	121	131	122	126	126
Zircon concentrate ^s	kt	557	580	157	148	127	139	136	146

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 ^a

	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08
Energy minerals	116.4	117.6	115.0	111.0	113.4	111.6	118.5	116.4
Metals and other minerals	112.1	111.5	115.4	115.5	123.5	124.2	124.3	124.7
Total minerals	114.5	114.9	115.2	113.3	118.6	118.1	121.2	120.5

^a 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

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Bauxite	kt	5 700	7 917	2 061	2 005	1 660	2 822	2 174	1 157
Alumina ^a	kt	15 056	15 739	4 103	3 835	3 907	3 771	4 396	4 056
Aluminium (ingot metal)	kt	1 638	1 650	412	415	385	437	442	434
Coal, black									
Metallurgical	Mt	131.97	136.92	35.86	29.61	36.75	36.31	32.14	23.75
Thermal	Mt	111.62	115.07	28.55	29.42	29.51	32.45	35.02	34.23
Copper ^{bs}	kt	699	732	178	191	184	205	231	168
Diamonds ^{cs}	'000 ct	24 632	16 528	6 145	2 277	3 126	4 839	5 428	3 175
Gold ^{bs}	t	399.69	381.58	89.40	89.46	94.88	125.45	105.88	124.33
Iron									
Iron ore and pellets	kt	257 365	294 293	72 759	73 749	79 465	86 925	69 351	78 195
Iron and steel ^s	kt	2 648	2 131	543	495	476	444	397	413
Lead ^{bs}	kt	635	588	169	109	157	174	163	126
Manganese ore and concentrate	kt	4 667	5 105	1 326	1 226	1 363	1 131	283	706
Nickel ^{ds}	kt	207	210	49	55	63	33	58	50
Petroleum									
Crude oil and other refinery feedstock	ML	15 965	15 975	4 020	3 980	3 958	4 055	4 807	4 044
LNG	Mt	15.20	14.80	3.90	3.70	3.80	3.50	4.50	4.20
LPG	ML	2 824	2 589	690	595	516	660	600	549
Refinery products	ML	1 762	1 807	507	456	288	237	288	342
Salt	kt	10 749	10 686 ^s	2 822	2 734 ^s	2 734 ^s	2 734 ^s	2 734 ^s	2 748
Tin ^b	t	1 867	3 079	751	1 304	455	132	893	1 651
Titanium									
Ilmenite concentrate	kt	999	894	234	257	179	265	317	389
Leucosene concentrate	kt	123	56	3	3	3	9	6	2
Rutile concentrate	kt	307	399	99	102	111	110	116	148
Synthetic rutile ^s	kt	508	513	128	126	128	129	128	127
Titanium dioxide pigment	kt	171	175	44	43	43	31	29	26
Uranium oxide (U ₃ O ₈)	t	9 519	10 139	3 088	2 385	2 180	2 572	2 526	2 172
Zinc ^b	kt	1 321	1 507	406	332	383	426	356	294
Zircon concentrate	kt	555	637	163	161	161	166	167	174

continued

3 Exports summary

continued

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Bauxite	\$m	153	206	53	57	37	74	58	33
Alumina ^a	\$m	6 243	5 809	1 461	1 346	1 471	1 552	2 013	1 356
Aluminium (ingot metal)	\$m	5 650	4 967	1 166	1 209	1 202	1 439	1 393	1 034
Coal, black									
Metallurgical	\$m	15 039	16 038	3 297	2 897	6 486	10 365	12 518	7 627
Thermal	\$m	6 758	8 365	1 802	2 115	2 754	3 775	5 709	4 984
Copper ^e	\$m	6 526	6 730	1 554	1 760	1 759	1 620	1 578	1 013
Diamonds ^{cs}	\$m	726	664	183	141	158	110	163	95
Gems, other than diamonds	\$m	49	52	9	18	11	10	11	15
Gold, refined	\$m	10 320	10 903	2 496	2 851	2 822	3 770	3 887	5 384
Iron									
Iron ore and pellets	\$m	15 512	20 511	4 528	4 967	6 873	9 588	8 716	8 985
Iron and steel ^s	\$m	1 743	1 562	382	342	437	520	418	218
Lead ^e	\$m	1 579	2 027	681	354	477	415	466	319
Manganese ore									
and concentrate	\$m	482	1 532	263	378	682	718	243	250
Nickel ^{es}	\$m	8 469	5 775	1 420	1 520	1 445	546	639	534
Petroleum									
Crude oil and other									
refinery feedstock	\$m	8 317	10 484	2 541	2 591	3 116	3 250	2 232	1 623
LNG	\$m	5 222	5 854	1 443	1 541	1 698	2 190	3 815	2 492
LPG	\$m	1 038	1 182	319	299	259	340	287	196
Refinery products	\$m	1 098	1 323	368	358	240	201	194	210
Salt	\$m	239	232 ^s	59	60 ^s	60 ^s	59 ^s	59 ^s	59 ^s
Silver, refined	\$m	221	187	46	55	36	48	73	58
Tin ^e	\$m	25	42	7	18	7	2	18	26
Titanium									
Ilmenite concentrate	\$m	113	104	30	31	21	31	37	42
Leucoxene concentrate	\$m	35	15	2	2	2	4	5	1
Rutile concentrate	\$m	259	277	72	71	67	69	64	98
Synthetic rutile ^s	\$m	361	305	78	74	71	69	59	68
Titanium dioxide pigment	\$m	408	375	94	91	90	73	95	85
Uranium oxide (U ₃ O ₈)	\$m	660	887	259	172	171	148	246	293
Zinc ^e	\$m	4 298	3 350	933	640	638	569	467	358
Zircon concentrate	\$m	478	421	108	107	105	127	137	134
Other mineral resources ^f	\$m	4 654	6 145	1 504	1 304	2 056	1 455	1 578	1 093
Total mineral resources ^g	\$m	106 680	116 333	27 162	27 372	35 256	43 136	47 177	38 685
Total merchandise	\$m	169 514	182 816	43 699	42 846	53 243	61 306	67 332	56 257
Total goods and services	\$m	215 695	233 835	56 286	56 019	66 288	74 591	81 031	70 275

^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.

4 Mineral resources export unit returns ^a

	quarter							
	2006-07	2007-08 p				2008-09 p		
	June	Sept	Dec	Mar	June	Sept	Dec	Mar
Energy minerals	204.6	212.6	219.4	235.7	323.3	429.0	521.6	433.1
Metals and other minerals	226.0	211.3	207.8	217.3	235.3	251.5	274.2	252.5
Total mineral resources	216.6	214.2	214.0	223.0	270.4	326.9	373.3	316.2

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

Sources: Australian Bureau of Statistics, Canberra; ABARE.

5 Imports summary

Quantity		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Diamonds a	'000 ct	3 430	2 964	930	620	611	211	214	166
Iron ore	kt	4 722	4 401	1 345	1 074	884	1 130	1 561	550
Ingot steel	kt	2 318	1 848	456	411	492	811	675	364
Ferroalloys	kt	87	97	18	38	24	20	19	9
Petroleum									
Crude oil and other refinery feedstock	ML	25 345	26 223	7 141	6 382	5 735	6 296	6 100	5 572
Natural gas	kt	4 268	4 032	637	1 212	1 024	1 295	1 126	1 191
Refinery products	ML	14 018	17 982	4 083	5 062	5 207	4 513	5 480	4 929
Phosphate rock	kt	472	707	279	109	226	323	189	1
Value									
Diamonds a	\$m	397	444	120	113	107	115	101	99
Gold b	\$m	5 309	7 311	1 414	1 905	2 110	2 662	3 054	3 898
Iron ore	\$m	338	311	92	73	62	64	141	53
Ingot steel	\$m	2 479	2 225	514	526	623	1 025	1 184	635
Ferroalloys	\$m	116	154	35	37	49	57	78	29
Petroleum									
Crude oil and other refinery feedstock	\$m	13 360	17 149	4 434	4 302	4 532	5 547	3 824	2 375
Natural gas	\$m	800	724	97	252	174	416	523	850
Refinery products	\$m	7 784	12 730	2 659	3 593	4 424	3 955	4 021	2 652
Phosphate rock	\$m	32	80	23	8	42	92	95	0
Silver	\$m	98	80	21	26	29	32	81	98
Other	\$m	985	1 271	357	362	325	381	563	237
Total	\$m	31 698	42 479	9 764	11 197	12 478	14 348	13 665	10 928

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

Energy		2006-07	2007-08	quarter					
				2007-08				2008-09 p	
				Sept	Dec	Mar	June	Sept	Dec
Petroleum									
Onshore	\$m	498.2	493.8	113.4	159.8	94.6	126.0	120.4	135.8
Offshore	\$m	1 727.3	2 541.1	584.9	610.2	614.8	731.2	660.9	877.6
Total	\$m	2 225.5	3 034.9	698.3	770.0	709.4	857.2	781.3	1 013.4
Coal	\$m	193.2	234.8	50.1	59.8	54.1	70.8	68.5	82.9
Uranium	\$m	114.1	231.5	50.0	69.6	49.2	62.7	56.7	51.9
Total energy	\$m	2 532.8	3 501.2	798.4	899.4	812.7	990.7	906.5	1 148.2
Metals and other minerals									
Copper	\$m	234.5	293.5	65.2	70.2	64.8	93.3	79.2	55.7
Diamonds	\$m	26.9	21.7	5.0	5.3	6.1	5.3	2.4	3.5
Gold	\$m	455.9	592.6	129.6	146.7	142.4	173.9	133.2	120.4
Iron ore	\$m	285.4	449.8	112.8	98.5	91.9	146.6	162.0	182.5
Mineral sands	\$m	37.3	37.0	7.2	10.5	8.9	10.4	9.1	9.1
Nickel, cobalt	\$m	181.1	303.2	66.8	85.9	64.0	86.5	95.0	78.5
Silver, lead and zinc	\$m	139.4	186.5	56.9	51.5	39.0	39.1	34.8	20.2
Other	\$m	46.8	110.8	19.8	27.9	23.6	39.5	46.8	43.8
Total metals and other minerals	\$m	1 407.3	1 995.1	463.3	496.5	440.7	594.6	562.5	513.7
Total expenditure	\$m	3 940.1	5 496.3	1 261.7	1 395.9	1 253.4	1 585.3	1 469.0	1 661.9

p Preliminary.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

7 Mineral resources prices

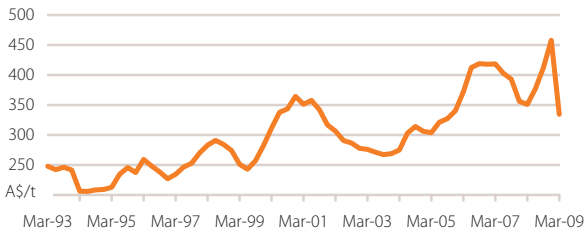
	Alumina avg export unit value A\$/t	Aluminium (high grade) LME cash US\$/t	Gold London AM fix US\$/oz	Iron ore ^a avg export unit value A\$/t	Thermal coal avg export unit value A\$/t	Metallurgical coal avg export unit value A\$/t	Crude oil ^b world trade wtd ave US\$/bbl	Uranium ^c Industry spot price US\$/lb
2005-06	362.90	2 244.69	526.95	53.70	65.02	141.13	57.25	36.79
2006-07	414.63	2 692.18	638.56	60.27	60.54	113.96	59.45	81.17
2007-08	369.08	2 665.02	823.35	69.70	72.70	117.14	91.97	80.75
2008								
January	347.94	2 445.52	887.78	68.56	68.05	93.61	89.87	78.00
February	348.02	2 776.93	924.28	64.58	69.44	96.66	90.84	73.00
March	355.89	3 005.29	971.06	68.20	77.82	103.51	100.48	71.00
April	385.70	2 959.27	911.60	83.86	88.58	126.55	104.98	65.00
May	377.35	2 902.90	889.13	88.24	92.02	172.52	118.93	60.00
June	368.15	2 957.86	889.54	87.13	99.40	221.37	128.06	59.00
July	384.40	3 071.24	941.17	101.12	105.15	245.04	133.52	64.50
August	408.66	2 764.38	840.39	109.90	113.52	285.44	113.97	64.50
September	444.87	2 525.82	824.92	120.60	131.19	321.26	98.52	53.00
October	480.76	2 121.41	812.82	137.72	158.60	379.74	73.95	45.00
November	467.28	1 852.43	757.85	127.92	165.49	404.70	50.47	55.00
December	426.08	1 490.43	819.94	110.16	164.91	384.86	39.71	53.00
2009								
January	343.11	1 413.12	857.73	110.93	149.67	354.15	40.36	48.00
February	349.02	1 330.20	939.76	120.66	152.72	335.31	41.23	45.00
March	311.52	1 335.84	925.99	112.99	133.92	285.10	45.19	42.00
	Copper (high grade) LME cash US\$/t	Lead LME cash US\$/t	Zinc (high grade) LME cash US\$/t	Silver ^d London fix US\$/troy oz	Nickel LME cash US\$/t	Ilmenite ^e avg export unit value A\$/t	Rutile ^f avg export unit value A\$/t	Zircon ^g avg export unit value A\$/t
2005-06	5 062.00	1 061.35	2 117.81	927.82	15 510.32	105.92	816.59	908.63
2006-07	7 086.78	1 694.20	3 672.41	1 274.16	37 908.78	112.89	845.61	861.55
2007-08	7 791.00	2 891.49	2 598.83	1 544.29	28 564.32	116.32 ^s	693.21	660.98
2008								
January	7 061.02	2 608.14	2 340.11	1 596.11	27 689.55	na	715.88	950.93
February	7 887.69	3 079.88	2 438.14	1 756.90	27 955.48	na	656.48	964.96
March	8 439.29	3 008.58	2 509.53	1 950.55	31 225.26	na	782.47	872.26
April	8 684.93	2 822.75	2 263.80	1 750.00	28 763.18	na	789.49	861.56
May	8 382.75	2 233.38	2 182.10	1 705.15	25 735.00	na	791.89	842.09
June	8 260.60	1 863.05	1 894.48	1 696.90	22 549.05	na	771.03	850.30
July	8 414.04	1 944.91	1 852.37	1 803.39	20 160.22	na	731.16	899.29
August	7 634.70	1 923.58	1 723.28	1 468.58	18 927.75	na	789.21	971.60
September	6 990.86	1 868.36	1 736.84	1 240.84	17 794.55	na	849.51	1 128.50
October	4 925.70	1 482.20	1 302.11	1 039.78	12 139.78	na	1 048.51	1 219.98
November	3 717.00	1 294.45	1 152.60	986.53	10 701.50	na	1 087.24	1 310.15
December	3 071.98	962.88	1 102.43	1 028.52	9 698.81	na	1 050.24	1 292.65
2009								
January	3 220.69	1 132.74	1 187.38	1 129.14	11 354.05	na	1 327.53	1 412.00
February	3 314.73	1 100.53	1 112.08	1 341.25	10 408.75	na	1 367.63	1 595.97
March	3 749.75	1 238.91	1 216.75	1 311.68	9 696.36	na	1 282.86	1 336.37

^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, confidential after August 2007. ^f Bagged only after August 1999. ^g Bagged only after September 1999. **na** Not available.

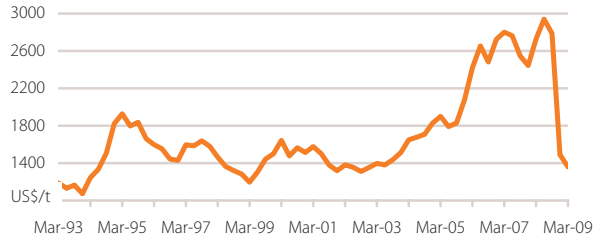
Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; London Bullion Market Association; The Ux Consulting Company; US Department of Energy; ABARE.

Mineral resources prices, ended March quarter 2009

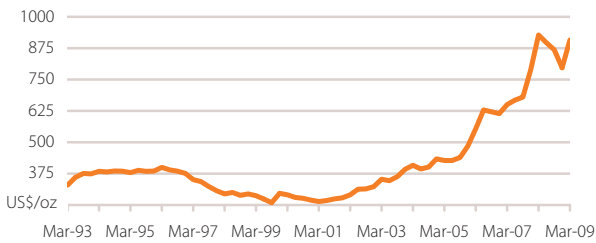
Alumina



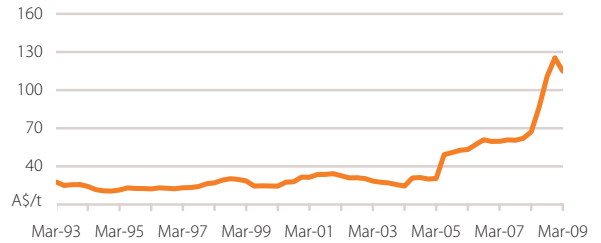
Aluminium



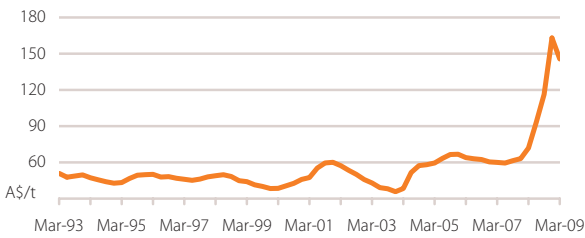
Gold



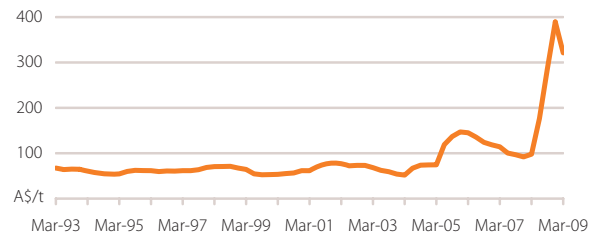
Iron ore



Thermal coal



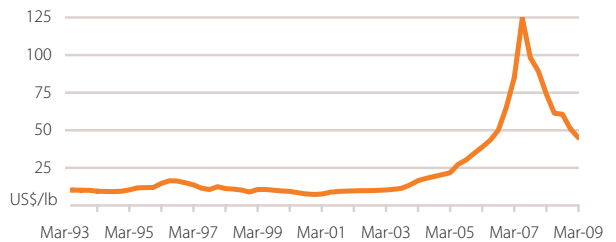
Metallurgical coal



Crude oil

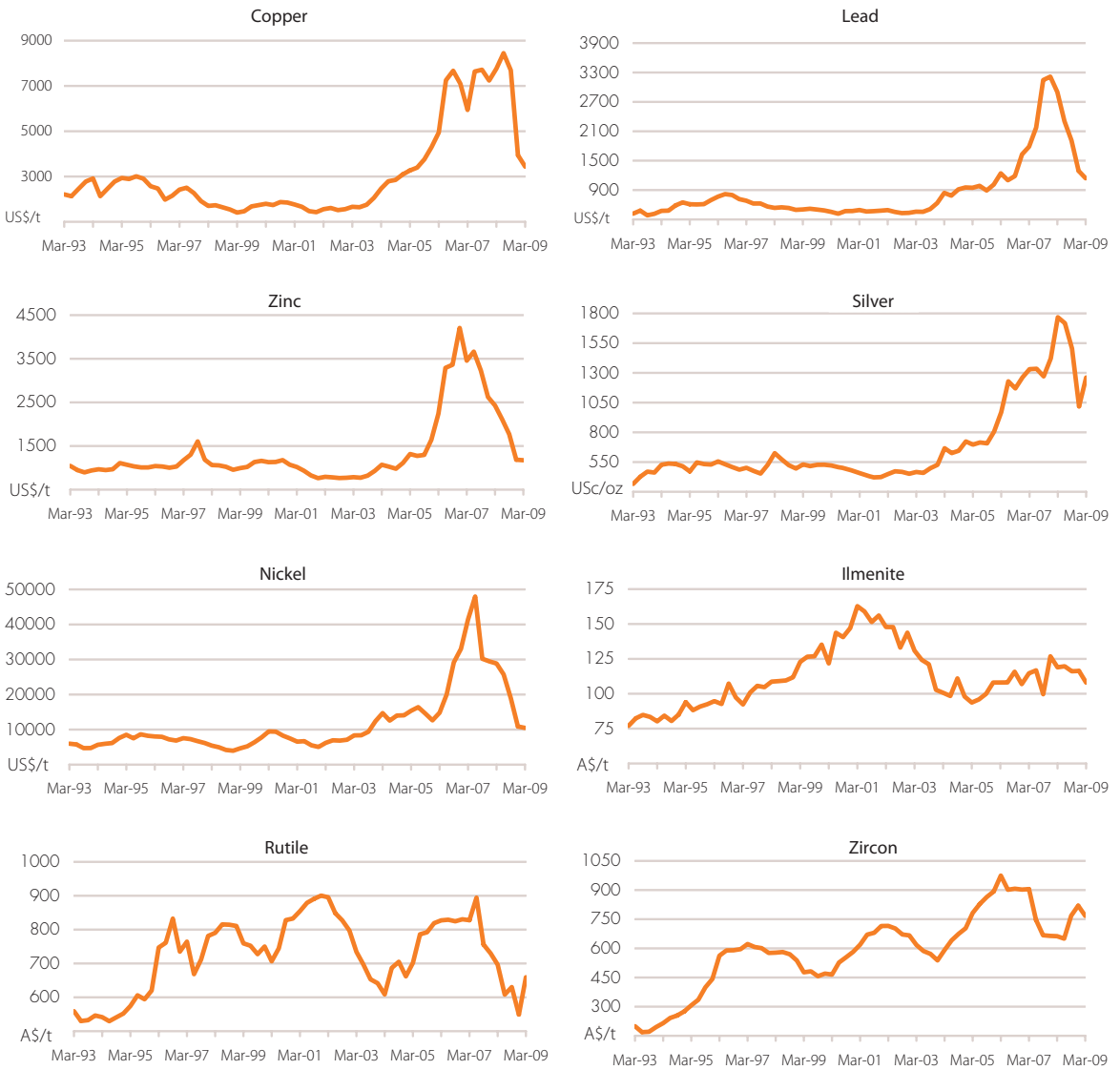


Uranium



Mineral resources prices, ended March quarter 2009

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

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine									
Bauxite									
Queensland	kt	16 969	16 814	4 285	4 215	4 218	3 951	4 355	4 153
Western Australia	kt	41 363	41 398	10 415	10 363	10 409	10 584	10 712	10 544
Northern Territory	kt	4 352	5 251	1 363	1 327	1 442	1 447	1 609	1 482
Australia	kt	62 684	63 463	16 063	15 905	16 069	15 982	16 677	16 179
Alumina content	kt	23 224	23 406	5 977	5 910	5 821	5 892	6 228	6 010
Smelter and refinery									
Alumina	kt	18 506	19 359	4 924	4 792	4 841	4 813	5 000	4 810
Aluminium (ingot metal)	kt	1 954	1 964	494	486	491	498	499	485
Exports									
Quantity									
Bauxite a	kt	5 700	7 917	2 061	2 005	1 660	2 822	2 174	1 157
Alumina bc	kt	15 056	15 739	4 103	3 835	3 907	3 771	4 396	4 056
Aluminium (ingot metal)									
Chinese Taipei	kt	153	195	53	47	46	52	36	27
Indonesia	kt	78	85	19	24	22	26	19	9
Japan	kt	634	609	139	166	144	173	163	85
Korea, Rep. of	kt	213	231	72	52	42	59	77	134
Malaysia	kt	92	101	29	26	22	25	38	51
Thailand	kt	200	220	53	52	61	55	49	43
Other	kt	268	207	46	48	48	47	59	86
Total	kt	1 638	1 650	412	415	385	437	442	434
Value									
Bauxite a	\$m	153	206	53	57	37	74	58	33
Alumina bc	\$m	6 243	5 809	1 461	1 346	1 471	1 552	2 013	1 356
Aluminium (ingot metal)	\$m	5 650	4 967	1 166	1 209	1 202	1 439	1 393	1 034
Imports									
Quantity									
Bauxite a	kt	10	8	2	2	3	5	5	3
Alumina bc	kt	11	12	3	2	3	4	4	2
Aluminium (ingot metal)	kt	3	3	1	1	1	1	1	1
Value									
Bauxite	\$m	3	3	1	1	1	3	4	3
Alumina b	\$m	12	13	3	3	4	4	5	2
Aluminium (ingot metal)	\$m	11	10	2	2	2	2	2	2
Prices									
Alumina d	A\$/t	415	369	356	351	377	412	458	334
Aluminium									
LME cash e	US\$/t	2 692	2 665	2 444	2 729	2 940	2 787	1 490	1 360
Australia d	A\$/t	3 450	3 011	2 833	2 914	3 124	3 291	3 155	2 380

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

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine									
Black coal, raw									
Underground	Mt	93.67	104.80	22.80	22.65	29.23	26.94	25.10	20.78 s
Opencut	Mt	320.72	316.38	80.11	69.14	83.16	81.81	89.11	81.81 s
New South Wales	Mt	169.72	177.02	43.21	43.09	44.81	47.00	48.50	43.00
Queensland	Mt	234.12	233.24	56.98	45.96	64.82	58.94	66.36	59.25 s
Western Australia a	Mt	6.18	6.44	1.60	1.62	1.64	1.70	1.70	1.70
South Australia a	Mt	3.60	3.84	0.96	0.96	0.96	0.96	0.96	0.96
Tasmania a	Mt	0.77	0.64	0.16	0.16	0.16	0.16	0.16	0.16
Australia	Mt	414.39	421.18	102.91	91.79	112.39	108.75	117.68	105.07 s
Black coal, salable									
Underground	Mt	73.64	83.78	18.76	18.87	22.45	21.42	22.78	20.07 s
Opencut	Mt	251.58	243.02	61.25	54.68	64.37	61.66	68.04	62.19 s
New South Wales	Mt	130.88	134.98	32.72	32.26	34.02	35.27	37.04	32.43
Queensland	Mt	184.08	180.92	44.57	38.55	50.05	45.01	50.65	45.65 s
Western Australia a	Mt	6.10	6.44	1.60	1.62	1.64	1.70	1.70	1.70
South Australia a	Mt	3.60	3.84	0.96	0.96	0.96	0.96	0.96	0.96
Tasmania a	Mt	0.56	0.62	0.15	0.15	0.15	0.15	0.15	0.15
Australia	Mt	325.23	326.80	80.00	73.55	86.82	83.09	90.51	80.89 s
Brown coal b									
Victoria s	Mt	65.61	72.40	na	na	na	na	na	na
Exports									
Quantity									
Metallurgical coal, high quality									
Brazil	Mt	3.05	3.27	0.98	0.62	0.77	0.96	0.60	0.23
China	Mt	2.41	1.37	0.74	0.35	0.00	0.43	0.07	3.65
Chinese Taipei	Mt	3.47	3.43	0.83	0.79	1.06	0.73	0.81	0.43
European Union 27	Mt	20.38	19.82	4.96	3.40	5.47	5.03	4.47	1.35
India	Mt	16.30	18.94	4.82	4.16	5.11	6.08	4.05	3.38
Japan	Mt	25.42	24.87	6.70	5.33	7.35	6.76	6.85	4.58
Korea, Rep. of	Mt	6.25	6.57	1.44	1.71	1.72	1.22	1.79	1.44
Other	Mt	5.53	5.37	1.36	1.31	1.47	1.91	1.46	0.50
Total	Mt	82.81	83.65	21.83	17.67	22.95	23.12	20.12	15.56
Metallurgical coal, other c									
Chinese Taipei	Mt	4.57	2.96	1.12	0.67	0.33	0.00	0.00	0.00
European Union 27	Mt	4.49	4.69	0.95	1.14	1.17	0.91	0.42	0.33
India	Mt	3.32	5.28	1.35	1.04	1.71	1.65	1.05	0.68
Japan	Mt	23.44	25.33	6.61	5.99	6.12	6.01	5.53	3.91
Other	Mt	13.34	15.00	3.99	3.09	4.46	4.63	5.04	3.27
Total	Mt	49.15	53.27	14.03	11.94	13.80	13.19	12.03	8.20
Total metallurgical coal	Mt	131.97	136.92	35.86	29.61	36.75	36.31	32.14	23.75
Thermal coal									
Chinese Taipei	Mt	16.23	18.56	5.28	4.09	5.10	5.39	5.32	4.97
European Union 27	Mt	3.81	2.15	0.35	1.14	0.57	0.91	0.84	1.22
Japan	Mt	58.64	66.92	17.04	17.40	16.20	17.61	16.77	16.00
Korea, Rep. of	Mt	15.06	18.55	4.04	4.61	5.79	5.47	8.61	8.04
Other	Mt	17.87	8.89	1.83	2.18	1.86	3.07	3.48	3.99
Total	Mt	111.62	115.07	28.55	29.42	29.51	32.45	35.02	34.23

9 Coal

continued

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Exports									
Quantity d									
Other coal	Mt	0.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00
Value									
Metallurgical coal									
High quality	\$m	11 010	10 847	2 249	1 958	4 334	7 250	8 534	5 275
Other quality	\$m	4 029	5 191	1 048	939	2 152	3 116	3 983	2 352
Total metallurgical coal	\$m	15 039	16 038	3 297	2 897	6 486	10 365	12 518	7 627
Thermal coal									
Other coal	\$m	6 758	8 365	1 802	2 115	2 754	3 775	5 709	4 984
Other coal	\$m	48	12	0	0	0	0	0	2
Total coal	\$m	21 845	24 416	5 099	5 013	9 241	14 140	18 227	12 614
Coke	\$m	80	176	19	60	57	49	71	42
Imports									
Quantity									
Coke	Mt	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.01
Value									
Coke	\$m	6	1	0	0	0	0	0	3
Prices e									
Metallurgical coal									
High quality	A\$/t	132.96	129.66	103.05	110.82	188.87	313.63	424.27	339.10
Other quality	A\$/t	81.97	97.46	74.70	78.64	155.96	236.19	331.15	286.97
Thermal coal	A\$/t	60.54	72.70	63.11	71.90	93.34	116.32	163.05	145.62

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 for coke not available 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

		2006-07	2007-08 ^p	quarter					
				2007-08 ^p			2008-09 ^p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine ^s									
Copper ore and concentrate	kt	3 060	3 222	797	816	836	834	844	879
Copper content of all minerals produced									
New South Wales ^a	kt	195	146	38	34	35	37	39	41
Queensland ^a	kt	338	392	118	94	92	101	102	68
Western Australia ^a	kt	114	124	31	34	27	36	29	35
South Australia	kt	183	170	43	36	58	55	48	50
Tasmania	kt	29	30	7	7	7	6	8	5
Australia ^a	kt	859	863	238	205	219	235	227	198
Smelter and refinery									
Blister copper (primary) ^b	kt	389	395	108	88	119	120	122	101
Refined copper (primary) ^s	kt	435	444	120	101	134	134	134	109
Exports									
Quantity									
Copper concentrate									
China ^c	kt	394	567	121	188	117	134	164	129
India	kt	493	523	133	161	83	146	141	93
Japan	kt	414	339	75	88	67	112	103	77
Korea, Rep. of	kt	115	183	39	9	74	56	54	31
Other	kt	77	81	10	18	43	15	34	31
Total	kt	1 493	1 694	378	463	384	463	496	359
Refined copper									
Chinese Taipei	kt	88	95	19	21	31	23	19	4
Germany	kt	0	0	0	0	0	0	0	0
Indonesia	kt	17	17	3	5	7	7	5	1
Japan	kt	2	9	1	0	8	3	0	0
Singapore	kt	5	1	0	1	0	5	8	1
Thailand	kt	40	43	13	8	13	8	7	4
Other	kt	138	131	37	39	32	43	65	71
Total	kt	290	296	73	74	92	90	104	80
Copper content of all primary materials exported ^{ds}	kt	699	732	178	191	184	205	231	168
Value									
Copper concentrate	\$m	3 914	4 151	940	1 129	946	926	1 000	603
Refined copper	\$m	2 612	2 579	614	631	813	694	577	410
Total	\$m	6 526	6 730	1 554	1 760	1 759	1 620	1 578	1 013
Prices ^e									
LME cash	US\$/t	7 087	7 791	7 239	7 763	8 448	7 692	3 940	3 435
Australia	A\$/t	9 063	8 702	8 087	8 617	8 984	8 549	5 750	5 213

^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

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Diamonds									
Northern Territory	'000 ct	10	0	0	0	0	0	0	0
Western Australia	'000 ct	24 622	16 528	6 145	2 277	3 126	4 839	5 428	4 579
Australia	'000 ct	24 632	16 528	6 145	2 277	3 126	4 839	5 428	4 579
Exports									
Quantity									
Diamonds									
Unsorted s	'000 ct	24 359	16 266	6 128	2 255	2 923	4 816	5 403	3 163
Sorted									
Gem	'000 ct	272	261	17	22	203	23	25	12
Industrial a	'000 ct	1	0	0	0	0	0	0	0
Total s	'000 ct	24 632	16 528	6 145	2 277	3 126	4 839	5 428	3 175
Value									
Diamonds									
Unsorted s	\$m	602	514	144	100	123	65	114	49
Sorted									
Gem	\$m	124	149	38	40	35	46	49	46
Industrial a	\$m	0	0	0	0	0	0	0	0
Total s	\$m	726	664	183	141	158	110	163	95
Opals									
Rough	\$m	12	10	2	3	2	1	2	4
Cut and polished	\$m	30	34	7	13	6	7	6	9
Total	\$m	41	45	8	17	8	8	8	13
Sapphires									
Rough	\$m	1	1	0	0	0	0	0	0
Total	\$m	1	1	0	0	0	0	0	0
Other gemstones b	\$m	7	7	1	1	3	1	3	1
Total gemstones	\$m	49	52	9	18	11	10	11	15
Imports									
Quantity									
Diamonds									
Unsorted	'000 ct	0	2	1	0	0	0	0	0
Sorted									
Gem	'000 ct	421	493	194	90	74	90	93	73
Industrial a	'000 ct	158	166	42	13	13	1	1	2
Dust and powder	'000 ct	2 850	2 303	693	518	524	120	120	92
Value									
Diamonds									
Unsorted	\$m	0	0	0	0	0	0	0	1
Sorted									
Gem	\$m	392	440	118	112	107	114	100	97
Industrial a	\$m	3	2	1	1	0	1	0	1
Dust and powder	\$m	2	1	0	0	0	0	0	0
Total	\$m	397	444	120	113	107	115	101	99

a Excludes dust, powder and unsorted diamonds. b Includes cut and polished sapphires from 1 July 2000. p Preliminary. s 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

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine s									
Gold content of all minerals produced									
New South Wales	t	32	34	10	8	7	9	7	6
Victoria	t	7	5	2	1	1	1	2	2
Queensland	t	23	20	6	4	4	5	5	4
Western Australia	t	163	142	39	31	34	33	34	35
South Australia	t	7	6	2	1	2	2	2	2
Tasmania	t	4	5	1	1	1	2	1	1
Northern Territory	t	17	16	4	4	4	4	3	3
Australia	t	251	228	63	51	54	55	54	54
Refinery									
Primary									
Australian origin	t	208	190	51	45	43	44	45	45
Overseas origin	t	55	58	14	14	16	17	19	21
Secondary									
Australian origin	t	5	5	1	1	1	1	2	1
Overseas origin	t	92	110	34	39	20	30	22	63
Total	t	360	364	100	99	81	92	89	129
Exports									
Quantity									
Refined and unrefined bullion									
Hong Kong, China	t	0	1	0	0	1	0	1	1
India	t	184	141	24	37	41	49	32	28
Japan	t	12	4	0	0	1	0	0	0
Korea, Rep. of	t	4	2	0	1	1	0	0	0
Malaysia	t	0	1	0	0	1	0	0	0
Middle East	t	23	37	2	0	13	19	15	3
United Arab Emirates	t	23	37	2	0	13	19	15	3
Singapore	t	18	2	0	0	2	4	2	1
Switzerland	t	37	28	2	0	2	0	4	1
Thailand	t	24	20	3	5	9	12	11	4
United Kingdom	t	71	140	57	46	21	40	40	87
Other	t	28	7	1	1	3	1	1	0
Total	t	400	382	89	89	95	125	106	124
Value									
Refined	\$m	10 320	10 903	2 496	2 851	2 822	3 770	3 887	5 384
Imports									
Value									
Refined and unrefined bullion	\$m	5 309	7 311	1 414	1 905	2 110	2 662	3 054	3 898
Prices									
London AM fix	US\$/oz	639	823	789	928	897	869	797	908
Australia	A\$/oz	814	917	888	1 023	952	977	1 185	1 365

p Preliminary. s ABARE estimate.

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

13 Iron

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Iron ore and concentrate a									
Western Australia	kt	281 157	313 505	78 352	77 262	85 949	90 458	76 642	77 277
South Australia	kt	4 698	8 138	2 494	2 006	2 065	1 909	1 732	2 226
Tasmania s	kt	1 838	2 435	617	602	610	650	615	462
Northern Territory	kt	0	615	271	66	211	428	450	444
Australia s	kt	287 693	324 693	81 733	79 935	88 835	93 445	79 439	80 409
Iron content s	kt	186 074	198 723	50 665	47 834	53 158	58 623	49 110	49 502
Iron and steel bs	kt	8 010	8 121	2 006	2 010	2 047	1 966	1 754	1 136
Exports									
Quantity									
Iron ore and pellets									
Pellets, sinters and briquettes	kt	718	1 142	356	215	284	385	197	543
Fines	kt	183 106	205 166	51 298	51 350	54 279	59 924	51 109	55 859
Lump and run of mine	kt	73 541	87 985	21 106	22 184	24 902	26 616	18 044	21 794
China c	kt	135 291	167 574	40 319	41 663	49 628	52 318	39 707	60 637
Chinese Taipei	kt	9 818	10 411	2 456	2 595	2 711	2 539	2 148	1 576
European Union 27	kt	7 602	5 918	1 069	2 087	1 079	2 040	679	170
Japan	kt	75 080	78 427	20 457	19 772	17 885	20 722	18 473	11 019
Korea, Rep. of	kt	28 973	31 614	8 258	7 579	8 118	9 256	8 343	4 793
Other	kt	602	350	200	52	44	50	0	0
Total iron ore and pellets	kt	257 365	294 293	72 759	73 749	79 465	86 925	69 351	78 195
Iron content	kt	159 977	183 107	45 249	45 887	49 486	54 112	43 037	48 603
Steel									
Iron and steel s	kt	2 648	2 131	543	495	476	444	397	413
Scrap	kt	1 328	1 783	430	307	748	331	358	463
Value									
Iron ore and pellets									
Pellets, sinters and briquettes	\$m	42	79	21	16	22	25	26	86
Fines	\$m	10 136	13 247	3 008	3 267	4 290	5 917	5 886	6 065
Lump and run of mine	\$m	5 334	7 184	1 499	1 684	2 562	3 646	2 804	2 834
Total	\$m	15 512	20 511	4 528	4 967	6 873	9 588	8 716	8 985
Steel									
Iron and steel s	\$m	1 743	1 562	382	342	437	520	418	218
Scrap	\$m	607	833	196	157	328	172	169	215
Total	\$m	2 350	2 396	578	499	765	692	587	433
Imports									
Quantity									
Iron ore d	kt	4 722	4 401	1 345	1 074	884	1 130	1 561	550
Iron and steel	kt	2 318	1 848	456	411	492	811	675	364
Ferroalloys	kt	87	97	18	38	24	20	19	9
Value									
Iron ore d	\$m	338	311	92	73	62	64	141	53
Iron and steel	\$m	2 479	2 225	514	526	623	1 025	1 184	635
Ferroalloys	\$m	116	154	35	37	49	57	78	29
Total	\$m	2 934	2 690	641	636	734	1 147	1 404	717
Prices									
Japanese negotiated e	USc/dmtu	73.45	80.43	80.43	80.43	144.67	144.67	144.67	144.67

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 metric tonne unit, for Japanese fiscal year commencing 1 April. **p** Preliminary. **s** ABARE estimate.

Sources: Australian Bureau of Statistics. Canberra: ABARE.

14 Lead

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine s									
Lead ore and concentrates	kt	908	888	226	234	209	218	243	172
Lead content of all minerals produced									
New South Wales	kt	91	75	16	19	21	18	13	20
Queensland	kt	415	469	121	127	107	119	128	85
Western Australia	kt	74	30	7	7	9	3	7	2
Tasmania	kt	29	32	7	8	9	8	7	7
Northern Territory	kt	33	35	9	9	9	9	10	7
Australia	kt	642	641	160	169	154	157	165	121
Smelter and refinery									
Refined lead (primary) a	kt	191	203	51	52	56	56	56	45
Domestic despatches									
Refined lead	kt	26	25	5	5	8	6	5	4
Exports									
Quantity									
Lead concentrate									
China	kt	166	72	31	4	23	37	29	16
European Union 27	kt	54	34	21	0	0	23	10	10
Japan	kt	53	74	22	21	25	11	11	5
Korea, Rep. of	kt	117	103	35	31	16	11	33	27
Other	kt	33	25	7	9	3	27	11	4
Total	kt	422	308	115	66	67	109	94	62
Lead bullion b									
United Kingdom	kt	112	169	44	27	51	26	45	29
Total	kt	112	169	44	27	51	26	45	29
Refined lead									
Chinese Taipei	kt	5	5	1	2	0	1	3	3
India	kt	41	26	8	4	6	9	10	11
Indonesia	kt	6	7	2	2	2	4	4	6
Japan	kt	0	0	0	0	0	1	1	0
Korea, Rep. of	kt	42	40	10	10	8	8	10	7
Thailand	kt	12	17	6	2	4	5	5	0
Other	kt	109	100	21	13	36	45	24	34
Total	kt	215	193	47	33	56	72	57	62
Lead content of all primary materials exported cs									
	kt	635	588	169	109	157	174	163	126
Value									
Lead concentrate	\$m	855	757	321	154	118	145	168	130
Lead bullion	\$m	268	595	172	93	175	95	143	79
Refined lead	\$m	457	674	188	108	183	175	155	111
Total	\$m	1 579	2 027	681	354	477	415	466	319
Prices									
LME cash d	US\$/t	1 694	2 891	3 215	2 900	2 306	1 912	1 292	1 141
Australia e	A\$/t	2 347	3 639	4 095	3 515	3 229	2 319	2 480	2 017

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

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

15 Manganese

		2006-07	2007-08 ^p	quarter					
				2007-08 ^p			2008-09 ^p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Manganese ore and concentrate									
Western Australia ^s	kt	1 217	1 262	332	281	335	149	82	261
Northern Territory	kt	3 854	4 174	1 027	972	1 132	1 084	800	476
Australia ^s	kt	5 071	5 436	1 360	1 254	1 468	1 233	883	737
Manganese content ^s	kt	2 434	2 609	653	602	704	592	424	354
Exports ^a									
Quantity									
Manganese ore and concentrate	kt	4 667	5 105	1 326	1 226	1 363	1 131	283	706
Value									
Manganese ore and concentrate	\$m	482	1 532	263	378	682	718	243	250
Prices									
Japanese negotiated ^b	US\$/mtu	3.00	2.70	2.70	2.70	11.20	11.20	11.20	11.20
	A\$/t	183.55	144.66	145.61	143.23	570.38	603.88	797.55	807.50

^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

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production as									
Mine									
Nickel content									
Western Australia	kt	191	190	47	49	50	51	48	43
Tasmania	kt	0	0	0	0	0	1	1	1
Australia	kt	191	190	47	49	50	52	49	44
Smelter and refinery									
Intermediate nickel	kt	57	45	12	13	7	0	11	6
Refined nickel, class 1 b	kt	104	105	25	27	26	13	23	28
Refined nickel, class 2 c	kt	15	15	3	4	6	4	5	3
Exports s									
Quantity									
Nickel d	kt	207	210	49	55	63	33	58	50
Value									
Ores and concentrates	\$m	1 312	1 088	180	246	400	239	292	170
Intermediate products e	\$m	1 717	925	265	245	224	0	71	41
Refined nickel, class 1 b	\$m	4 900	3 325	869	912	668	248	230	286
Refined nickel, class 2 c	\$m	540	437	106	117	153	58	45	36
Total	\$m	8 469	5 775	1 420	1 520	1 445	546	639	534
Imports									
Value									
Primary nickel products f	\$m	257	262	88	62	56	52	54	17
Prices									
LME cash g	US\$/t	37 909	28 564	29 453	28 863	25 730	18 980	10 889	10 475
	A\$/t	48 320	31 884	33 091	31 900	27 299	21 320	16 155	15 734

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

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Field									
Crude oil	ML	21 405 s	18 832	4 697	4 410	4 924	5 292	5 491	4 956
Condensate	ML	7 404 s	6 957	1 792	1 513	1 674	1 676	2 000	1 895
Total	ML	28 809 s	25 789	6 489	5 923	6 598	6 968	7 491	6 851
Production rate	'000 bbl/day	503 s	451	453	414	461	487	524	479
LPG	ML	4 550	3 971	1 002	829	994	1 056	934	870
Ethane a	Mm ³	439	454	110	103	116	118	91	75
Natural gas a	Mm ³	39 331	39 283	10 031	8 989	9 582	9 631	10 054	9 656
Refinery									
Refinery input	ML	39 465	38 346	9 623	9 452	9 426	9 398	10 003	9 615
Refinery output									
LPG	ML	1 387	1 515	353	396	424	512	428	266
Automotive gasoline	ML	17 732	17 079	4 288	3 814	4 239	4 249	4 238	4 300
Aviation gasoline	ML	119	119	27	39	27	29	18	31
Aviation turbine fuel	ML	5 332	5 182	1 333	1 262	1 291	1 381	1 405	1 367
Kerosine	ML	2	1	0	0	1	1	0	1
Heating oil	ML	86	102	28	9	33	27	9	16
Automotive diesel oil	ML	11 055	12 177	3 156	2 926	2 962	2 981	3 180	2 975
Industrial and marine									
diesel fuel	ML	21	3	7	4	- 12	4	3	4
Fuel oil (excl. refinery fuel)	ML	942	979	242	242	270	204	233	239
Lubricating oil basestock	ML	146	121	18	34	34	22	36	34
Bitumen	ML	1 356	1 452	434	327	360	316	335	317
Other products	ML	616	844	199	314	150	218	247	70
Total	ML	38 795	39 575	10 084	9 368	9 780	9 945	10 131	9 620
Sales									
LPG									
Automotive use b	ML	2 335	2 238	566	532	558	582	580	548
Total	ML	4 038	4 024	1 002	912	992	1 079	1 004	924
Automotive gasoline									
Premium unleaded	ML	1 819	1 780	469	434	419	408	449	448
Regular unleaded	ML	15 892	15 212	3 936	3 763	3 609	3 562	3 568	3 416
Other unleaded	ML	1 539	2 242	566	567	608	696	825	820
Total	ML	19 251	19 234	4 971	4 764	4 636	4 667	4 843	4 684
Aviation gasoline									
Aviation turbine fuel	ML	90	88	22	20	23	27	28	19
Kerosine	ML	5 837	6 070	1 546	1 497	1 550	1 578	1 576	1 462
Heating oil	ML	32	43	9	18	6	7	4	6
Automotive diesel oil	ML	15	12	2	3	3	3	1	1
Industrial and marine									
diesel fuel	ML	17 028	18 245	4 665	4 382	4 790	4 742	4 811	4 316
diesel fuel	ML	15	11	3	3	2	4	3	3
Fuel oil	ML	1 513	1 583	406	418	376	360	392	357
Lubricating oil and greases	ML	421	435	105	105	113	116	107	101
Bitumen	ML	808	785	216	213	207	158	221	221
Other products	ML	699	258	63	61	69	72	93	71
Total	ML	49 746	50 788	13 011	12 395	12 769	12 814	13 082	12 165

continued

17 Petroleum

continued

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Exports									
Quantity									
Crude oil and other refinery feedstock									
China	ML	518	972	379	382	211	0	371	177
Chinese Taipei	ML	446	343	8	196	13	110	191	87
Japan	ML	1 957	2 280	643	416	570	670	606	764
Korea, Rep. of	ML	3 873	3 701	1 067	726	636	994	998	1 370
New Zealand	ML	1 045	600	56	81	315	143	3	70
Singapore	ML	3 752	3 089	511	1 197	861	726	1 095	896
United States	ML	190	1 157	360	296	501	513	760	148
Other	ML	4 183	3 833	996	686	849	898	784	533
Total	ML	15 965	15 975	4 020	3 980	3 958	4 055	4 807	4 044
LNG	Mt	15.20	14.80	3.90	3.70	3.80	3.50	4.50	4.20
LPG	ML	2 824	2 589	690	595	516	660	600	549
Refinery products									
Automotive gasoline	ML	771	628	176	84	97	84	25	46
Aviation turbine fuel	ML	120	149	39	43	29	28	16	29
Diesel fuel c	ML	288	462	133	215	37	5	144	137
Fuel oil	ML	209	257	60	55	57	45	76	48
Aviation gasoline	ML	81	96	48	6	10	5	11	33
Lubricants	ML	231	178	39	50	43	63	8	42
Other products	ML	62	35	12	2	14	9	9	7
Total	ML	1 762	1 807	507	456	288	237	288	342
Ships' and aircraft stores									
Aviation turbine fuel	ML	1 893	1 893	473	473	473	473	473	473
Fuel oil	ML	252	251	63	63	63	64	70	72
Other products	ML	11	24	6	3	9	6	14	7
Total	ML	2 156	2 169	542	540	545	543	557	552
Value									
Crude oil and other refinery feedstock									
	\$m	8 317	10 484	2 541	2 591	3 116	3 250	2 232	1 623
LNG	\$m	5 222	5 854	1 443	1 541	1 698	2 190	3 815	2 492
LPG	\$m	1 038	1 182	319	299	259	340	287	196
Refinery products									
Automotive gasoline	\$m	468	444	124	65	83	71	13	30
Aviation turbine fuel	\$m	74	120	30	35	30	27	9	16
Diesel fuel c	\$m	188	363	100	174	34	6	99	75
Fuel oil	\$m	84	130	29	29	37	31	34	19
Aviation gasoline	\$m	69	73	35	6	10	6	11	22
Lubricants	\$m	157	152	36	43	37	44	27	38
Other products	\$m	57	41	14	6	10	15	1	10
Total	\$m	1 098	1 323	368	358	240	201	194	210
Total	\$m	15 675	18 843	4 670	4 789	5 313	5 980	6 527	4 521
Ships' and aircraft stores									
Aviation turbine fuel	\$m	1 176	1 325	325	344	363	434	382	305
Fuel oil	\$m	108	107	27	27	27	27	37	47
Other products	\$m	11	25	5	4	10	7	18	6
Total	\$m	1 295	1 457	357	375	400	469	437	358

continued

17 Petroleum

continued

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Imports									
Quantity									
Crude oil and other refinery feedstock									
Indonesia	ML	3 391	3 289	692	759	827	709	855	861
Malaysia	ML	3 730	4 103	873	1 252	734	1 026	1 343	1 228
Middle East									
Qatar	ML	106	0	0	0	0	0	0	0
Saudi Arabia	ML	1 151	573	287	14	116	96	206	243
United Arab Emirates	ML	2 971	3 660	1 000	774	830	778	477	572
Other	ML	118	43	0	43	0	0	40	0
Total Middle East	ML	4 346	4 276	1 287	830	946	875	723	814
New Zealand	ML	635	1 974	462	545	544	637	659	454
Papua New Guinea	ML	2 059	2 190	629	412	417	324	371	319
Singapore	ML	841	713	251	175	132	165	179	111
Viet Nam	ML	6 677	6 318	2 166	1 426	1 240	1 483	1 234	1 144
Other	ML	3 665	3 360	781	984	895	1 078	736	640
Total	ML	25 345	26 223	7 141	6 382	5 735	6 296	6 100	5 572
Natural gas	kt	4 268	4 032	637	1 212	1 024	1 295	1 126	1 191
Refined products									
LPG	ML	748	965	173	180	343	183	301	167
Automotive gasoline	ML	2 912	3 533	706	1 292	1 012	567	1 327	1 455
Aviation turbine fuel	ML	1 045	1 846	375	494	576	464	457	528
Diesel fuel c	ML	5 439	7 470	1 815	1 939	2 211	2 108	2 349	1 664
Fuel oil	ML	1 363	1 625	471	432	432	475	409	446
Lubricants	ML	365	396	105	99	98	105	92	94
Other products	ML	2 146	2 147	438	627	536	612	545	576
Total	ML	14 018	17 982	4 083	5 062	5 207	4 513	5 480	4 929
Value									
Crude oil and other refinery feedstock									
	\$m	13 360	17 149	4 434	4 302	4 532	5 547	3 824	2 375
Natural gas									
	\$m	800	724	97	252	174	416	523	850
Refined products									
LPG	\$m	261	436	81	90	164	92	122	59
Automotive gasoline	\$m	1 872	2 719	503	1 001	869	516	973	854
Aviation turbine fuel	\$m	668	1 505	273	381	589	473	330	272
Diesel fuel c	\$m	3 466	6 155	1 311	1 601	2 252	2 182	1 965	962
Fuel oil	\$m	536	831	229	226	249	332	197	176
Lubricants	\$m	495	477	120	117	128	170	201	146
Other products	\$m	1 285	1 331	239	430	347	607	755	1 033
Total	\$m	7 784	12 730	2 659	3 593	4 424	3 955	4 021	2 652
Total	\$m	21 943	30 603	7 189	8 147	9 130	9 918	8 367	5 877
Prices									
Dubai	US\$/bbl	60.86	90.19	82.83	90.71	117.23	108.53	52.00	39.19
West Texas intermediate	US\$/bbl	63.32	96.73	90.47	97.22	123.97	114.50	58.80	41.70
Brent	US\$/bbl	63.93	95.37	88.45	96.16	122.13	114.51	54.50	41.20
Tapis	US\$/bbl	69.32	100.84	93.34	102.29	128.82	125.81	60.79	48.09
World trade weighted average	US\$/bbl	59.45	91.97	84.64	93.00	118.79	110.10	56.50	40.25
	A\$/bbl	75.78	102.66	95.09	102.79	126.03	123.67	83.82	60.46

a Commercial sales plus field and plant usage. b This is a minimum level and includes only direct sales by the oil industry. The data do not include volumes sold to distributors etc. which are subsequently used or sold for automotive use. c Includes automotive diesel oil and industrial and marine diesel fuel. p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; Department of Resources, Energy and Tourism, 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 ML	Ethane a Mm ³	Natural gas a Mm ³
			ML	'000 bbl/day			
December quarter 2008							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amadeus	13.6	0.0	13.6	1.0	0.0	0.0	134.7
Bonaparte	209.1	0.0	209.1	14.6	0.0	0.0	0.0
Bowen–Sarat	4.7	4.6	9.3	0.6	5.3	0.0	47.4
Canning	1.9	0.0	1.9	0.1	0.0	0.0	0.0
Carnarvon							
Barrow Island	205.6	0.0	205.6	14.4	0.0	0.0	482.1
North West Shelf	814.5	1 709.4	2 523.9	176.4	402.1	0.0	7 012.6
Other	2 455.9	3.5	2 459.3	171.9	0.0	0.0	52.6
Cooper–Eromanga							
Queensland	217.9	40.9	258.7	18.1	0.0	0.0	0.0
South Australia	487.6	43.9	531.5	37.1	139.9	64.0	691.2
Gippsland	967.1	175.8	1 142.9	79.9	357.0	26.8	1 576.7
Otway	0.0	21.6	21.6	1.5	30.0	0.0	0.8
Perth	112.7	0.5	113.1	7.9	0.0	0.0	55.7
Total	5 490.6	2 000.2	7 490.8	523.5	934.3	90.8	10 053.8
March quarter 2009 p							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amadeus	13.6	0.0	13.6	1.0	0.0	0.0	133.5
Bonaparte	177.4	0.0	177.4	12.4	0.0	0.0	0.0
Bowen–Sarat	4.3	5.2	9.5	0.7	6.9	0.0	54.1
Canning	1.9	0.0	1.9	0.1	0.0	0.0	0.0
Carnarvon							
Barrow Island	194.2	0.0	194.2	13.6	0.0	0.0	462.0
North West Shelf	604.3	1 670.1	2 274.5	159.0	398.7	0.0	6 912.5
Other	2 058.0	15.7	2 073.7	144.9	0.0	0.0	186.6
Cooper–Eromanga							
Queensland	205.3	40.9	246.1	17.2	0.0	0.0	0.0
South Australia	602.7	43.9	646.6	45.2	139.9	64.0	691.2
Gippsland	994.0	99.0	1 093.0	76.4	297.4	10.8	1 164.8
Otway	0.0	19.6	19.6	1.4	26.8	0.0	0.8
Perth	100.1	0.4	100.5	7.0	0.0	0.0	50.7
Total	4 955.8	1 894.8	6 850.6	478.8	869.7	74.8	9 656.1
2007-08 p							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	11.6
Amadeus	49.7	0.0	49.7	0.9	0.0	0.0	541.4
Bonaparte	826.3	32.8 s	859.1 s	15.0 s	0.0	0.0	0.0
Bowen–Sarat	16.4	19.4	35.8	0.6	24.0	0.0	437.6
Canning	4.4	0.0	4.4	0.1	0.0	0.0	0.0
Carnarvon							
Barrow Island	355.9	0.0	355.9	6.2	0.0	0.0	1 803.8
North West Shelf	4 063.1 s	5 572.1	9 635.2 s	168.3 s	1 500.0	0.0	24 460.2
Other	7 202.3 s	143.3	7 345.6 s	128.3 s	0.0	0.0	955.9
Cooper–Eromanga							
Queensland	900.7	162.6	1 063.3	18.6	0.0	0.0	0.0
South Australia	1 353.9	192.7	1 546.6	27.0	557.2	258.6	2 968.0
Gippsland	3 391.9	804.2	4 196.1	73.3	1 883.1	194.9	7 809.7
Otway	0.0	27.5	27.5	0.5	6.5	0.0	15.9
Perth	667.7	2.4	670.1	11.7	0.0	0.0	279.1
Total	18 832.2 s	6 957.0 s	25 789.2 s	450.6 s	3 970.8	453.5	39 283.1

a Commercial sales plus field and plant usage. p Preliminary. s ABARE estimate.

Sources: Department of Resources, Energy and Tourism, Canberra; ABARE.

19 Sales of petroleum products, by state marketing area

	NSW ^a	Vic.	QLD	WA	SA	Tas.	NT	Aust.
	ML	ML	ML	ML	ML	ML	ML	ML
March quarter 2009 ^p								
LPG ^b								
Automotive use ^c	170	216	46	46	65	3	2	548
Total	272	321	137	73	99	16	7	924
Automotive gasoline								
Premium unleaded	139	95	97	69	28	15	5	448
Regular unleaded	969	901	703	445	275	97	27	3 416
Other unleaded ^d	383	118	262	34	21	2	0	820
Total	1 490	1 114	1 061	547	324	115	32	4 684
of which sales to retailers	1 220	866	800	437	239	49	18	3 629
Aviation gasoline	4	3	5	3	1	1	2	19
Aviation turbine fuel	619	260	320	174	46	11	32	1 462
Kerosine	0	0	5	0	0	0	0	6
Heating oil	0	0	0	0	0	1	0	1
Automotive diesel oil	948	719	1 175	942	302	97	131	4 316
of which sales to retailers	321	269	291	219	69	8	13	1 188
Industrial and marine diesel fuel	3	1	0	0	0	0	0	3
Fuel oil ^e	89	98	10	42	0	0	118	357
Lubricating oil and greases	32	21	24	14	8	2	1	101
Bitumen	53	44	71	27	18	8	1	221
Other products ^f	51	8	4	5	3	0	0	71
Total	3 561	2 590	2 812	1 828	800	250	324	12 165
2007-08 ^p								
LPG ^b								
Automotive use ^c	624	932	249	191	221	13	7	2 238
Total	1 139	1 485	613	325	368	67	28	4 024
Automotive gasoline								
Premium unleaded	524	409	434	225	108	62	19	1 780
Regular unleaded	4 666	3 998	3 282	1 614	1 139	384	131	15 212
Other unleaded ^d	882	380	759	133	78	9	0	2 242
Total	6 072	4 787	4 475	1 971	1 325	454	150	19 234
of which sales to retailers	4 759	3 797	3 000	1 610	1 006	211	77	14 459
Aviation gasoline	16	13	27	16	6	2	9	88
Aviation turbine fuel	2 722	950	1 286	696	236	33	146	6 070
Kerosine	4	5	32	1	0	1	0	43
Heating oil	4	1	0	0	2	4	0	12
Automotive diesel oil	3 769	3 005	5 160	4 060	1 204	396	650	18 245
of which sales to retailers	1 290	1 174	1 220	745	284	36	71	4 820
Industrial and marine diesel fuel	7	0	4	0	0	0	0	11
Fuel oil ^e	502	329	80	195	3	3	472	1 583
Lubricating oil and greases	115	97	115	62	33	6	7	435
Bitumen	163	190	285	63	58	18	8	785
Other products ^f	126	42	61	14	12	1	2	258
Total	14 638	10 903	12 138	7 404	3 247	985	1 473	50 788

^a Includes Australian Capital Territory. ^b Includes sales for petrochemical feedstock. ^c 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. ^d Includes proprietary brand and other blends. ^e Excludes refinery fuel. ^f Sales of LPG for petrochemical feedstock are included in LPG sales. ^p Preliminary.
 Source: Department of Resources, Energy and Tourism, Canberra.

20 Phosphate

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Single superphosphate as	kt	944	1 413	558	218	452	646	378	na
Imports									
Quantity									
Phosphate rock									
China	kt	23	55	30	0	24	13	1	0
Morocco	kt	343	438	186	78	125	128	129	0
Nauru	kt	27	112	27	31	27	58	27	0
Other	kt	79	101	36	0	51	123	31	0
Total	kt	472	707	279	109	226	323	189	1
Phosphates									
Diammonium b	kt	83	313	67	107	133	24	7	64
Monammonium c	kt	443	583	122	242	197	29	72	175
High analysis d	kt	166	107	15	31	60	22	21	43
Value									
Phosphate rock	\$m	32	80	23	8	42	92	95	0
Phosphates									
Diammonium b	\$m	32	261	36	83	139	31	7	36
Monammonium c	\$m	182	454	60	165	220	40	93	107
High analysis d	\$m	54	63	6	16	41	23	19	20
Prices									
Australia e	A\$/t	68.71	104.44	80.91	77.53	184.56	284.37	502.45	546.10

a Single superphosphate manufactured from imported phosphate rock; P₂O₅ equivalent: 21 per cent. b P₂O₅ equivalent: 46 per cent. c P₂O₅ equivalent: 50 per cent. d P₂O₅ equivalent: 48 per cent. e Average import unit value. p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

21 Salt

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Australia as	kt	10 857	11 243 s	2 764	2 790 s	2 790 s	2 799 s	2 799 s	2 804 s
Exports									
Quantity									
Bulk, bagged and table	kt	10 749	10 686 s	2 822	2 734 s	2 734 s	2 734 s	2 734 s	2 748 s
Value									
Bulk, bagged and table	\$m	239	232 s	59	60 s	60 s	59 s	59 s	59 s
Prices									
Australia b	A\$/t	22.24	21.67 s	20.83	22.00 s	22.00 s	21.50 s	21.50 s	21.63 s

a Combination of sales and production data, excludes Victoria. b Average export unit value. p Preliminary. s ABARE estimate. na Not available.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

22 Silver

		2006-07	2007-08 ^p	quarter					
				2007-08 ^p			2008-09 ^p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine s									
Silver content of all minerals produced									
New South Wales	t	81	77	24	19	21	18	14	17
Queensland	t	1 347	1 504	370	423	332	371	458	280
Western Australia	t	85	114	27	17	28	20	35	15
South Australia	t	28	29	7	7	8	8	7	8
Tasmania	t	96	106	26	25	29	24	22	25
Northern Territory	t	38	38	10	9	9	10	11	6
Australia	t	1 674	1 867	464	500	429	451	546	351
Refinery									
Refined silver	t	618	605	138	148	145	183	188	186
Exports									
Quantity									
Refined silver bullion	t	431	335	90	96	58	80	113	109
Value									
Refined silver ^a	\$m	221	187	46	55	36	48	73	58
Imports									
Value									
Refined silver bullion	\$m	98	80	21	26	29	32	81	98
Prices									
World ^b	US\$/oz	1 274	1 544	1 422	1 768	1 717	1 504	1 018	1 261
Australia ^c	A\$/kg	520	551	514	624	586	540	485	608

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

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

23 Tin

		2006-07	2007-08 ^p	quarter					
				2007-08 ^p			2008-09 ^p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine									
Tin content of all minerals produced									
Queensland ^s	t	1 912	1 631	536	483	221	0	0	0
Western Australia ^s	t	149	0	0	0	0	0	0	0
Tasmania	t	0	0	0	0	0	192	887	1 439
Australia ^s	t	2 061	1 631	536	483	221	192	887	1 439
Smelter and refinery									
Refined tin (primary) ^s	t	321	0	0	0	0	0	0	0
Domestic despatches ^s									
Tin concentrate	t	196	na	na	na	na	na	na	na
Tin content	t	147	na	na	na	na	na	na	na
Exports									
Quantity									
Tin concentrate	t	3 172	6 527	1 290	3 511	1 057	522	2 815	3 241
Refined tin	t	36	185	3	1	0	0	0	80
Tin content of primary materials exported ^{as}	t	1 867	3 079	751	1 304	455	132	893	1 651
Value									
Tin concentrate	\$m	25	39	7	18	7	2	18	25
Refined tin	\$m	0	3	0	0	0	0	0	0
Total	\$m	25	42	7	18	7	2	18	26
Imports									
Quantity									
Refined tin	t	574	603	127	181	169	170	107	122
Value									
Refined tin	\$m	8	12	2	3	4	4	3	2
Prices									
LME ^b	US\$/t	11 455	17 940	16 342	17 784	22 650	20 551	13 131	11 024

^a Tin content of tin ores and concentrates and refined tin. ^b LME official close. ^p Preliminary. ^s ABARE estimate. ^{na} Not available.

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

24 Titanium minerals

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production s									
Ilmenite concentrate									
New South Wales	kt	179	197	57	43	49	40	40	50
Queensland	kt	177	222	57	57	63	59	35	8
Victoria	kt	0	0	0	0	0	0	0	6
South Australia	kt	0	5	0	2	4	5	5	5
Western Australia	kt	2 026	1 779	478	443	376	388	431	375
Northern Territory	kt	1	3	1	1	1	1	0	0
Australia	kt	2 383	2 205	592	545	493	493	511	445
Leucoxene concentrate									
New South Wales	kt	69	86	20	10	34	23	23	23
Victoria	kt	1	5	1	2	2	1	1	2
South Australia	kt	0	3	0	1	2	2	2	2
Western Australia	kt	99	60	19	13	12	14	15	15
Northern Territory	kt	1	2	1	1	1	1	0	0
Australia	kt	169	156	40	26	51	40	41	43
Rutile concentrate									
New South Wales	kt	56	63	16	15	16	20	20	20
Victoria	kt	22	72	19	19	16	15	16	28
Queensland	kt	71	85	25	20	19	18	16	14
South Australia	kt	0	2	0	1	1	1	2	2
Western Australia	kt	126	105	28	29	22	27	26	25
Northern Territory	kt	2	6	1	1	2	1	0	0
Australia	kt	279	333	90	85	77	82	81	89
Synthetic rutile	kt	729	672	182	155	155	188	185	190
Titanium dioxide pigment	kt	207	201	52	50	45	49	55	57
Exports									
Quantity									
Ilmenite concentrate a	kt	999	894	234	257	179	265	317	389
Leucoxene concentrate	kt	123	56	3	3	3	9	6	2
Rutile concentrate s	kt	307	399	99	102	111	110	116	148
Synthetic rutile s	kt	508	513	128	126	128	129	128	127
Titanium dioxide pigment	kt	171	175	44	43	43	31	29	26
Value									
Ilmenite concentrate a	\$m	113	104	30	31	21	31	37	42
Leucoxene concentrate	\$m	35	15	2	2	2	4	5	1
Rutile concentrate s	\$m	259	277	72	71	67	69	64	98
Synthetic rutile s	\$m	361	305	78	74	71	69	59	68
Titanium dioxide pigment	\$m	408	375	94	91	90	73	95	85
Prices b									
Ilmenite concentrate									
Bulk	A\$/t	113	na	na	na	na	na	na	na
Leucoxene concentrate									
Bulk	A\$/t	249	166	na	na	na	na	na	na
Bagged	A\$/t	679	631	598	656	645	457	784	625
Rutile concentrate									
Bagged	A\$/t	861	742	730	710	784	786	1 063	1 326
Titanium dioxide pigment	A\$/t	2 391	2 137	2 117	2 112	2 072	2 346	3 259	3 224

a From January 1992, bulk only. b Average export unit value. p Preliminary. s ABARE estimate. na Not available.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

25 Uranium

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine									
Uranium oxide (U ₃ O ₈)	t	9 594	10 101	2 921	2 485	2 222	2 624	2 659	2 297
Uranium (U content)									
South Australia	t	3 674	4 094	1 160	982	1 011	1 081	869	918
Northern Territory	t	4 461	4 472	1 317	1 125	873	1 144	1 386	1 029
Australia	t	8 135	8 565	2 477	2 107	1 884	2 225	2 255	1 948
Exports a									
Quantity									
Uranium oxide (U ₃ O ₈)	t	9 519	10 139	3 088	2 385	2 180	2 572	2 526	2 172
Value									
Uranium oxide (U ₃ O ₈)	\$m	660	887	259	172	171	148	246	293
Prices									
Uranium oxide (U ₃ O ₈)									
Industry spot b	US\$/lb	81.17	80.75	89.33	74.00	61.33	60.67	51.00	45.00
Australia c	A\$/kg	69.28	87.45	83.93	72.11	78.36	57.39	97.21	134.93

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 Zircon

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Zircon concentrate s									
New South Wales	kt	37	48	11	13	12	12	12	14
Victoria	kt	49	141	40	38	23	27	25	27
Queensland	kt	56	66	18	14	14	13	12	11
South Australia		0	15	0	5	10	11	12	13
Western Australia	kt	409	295	84	74	63	74	76	81
Northern Territory	kt	7	16	4	4	5	3	0	0
Australia	kt	557	580	157	148	127	139	136	146
Exports									
Quantity									
Zircon concentrate s	kt	555	637	163	161	161	166	167	174
Value									
Zircon concentrate s	\$m	478	421	108	107	105	127	137	134
Prices a									
Zircon concentrate									
All grades – bagged	A\$/t	1 111	943	987	923	851	979	1 274	1 419

a Average export unit value. p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

27 Zinc

		2006-07	2007-08 p	quarter					
				2007-08 p			2008-09 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine s									
Zinc ore and concentrates	kt	2 508	3 074	897	697	736	696	742	543
Zinc content of all minerals produced									
New South Wales	kt	147	140	31	33	41	40	27	27
Queensland	kt	843	897	217	221	233	227	237	195
Western Australia	kt	144	205	51	41	56	35	68	29
South Australia	kt	4	94	69	12	0	7	3	2
Tasmania	kt	97	102	22	26	28	24	19	21
Northern Territory	kt	140	134	33	33	33	37	39	23
Australia	kt	1 375	1 571	423	365	391	370	393	298
Smelter and refinery									
Refined zinc (primary)	kt	496	507	129	121	131	122	126	126
Domestic despatches									
Refined zinc	kt	87	85	20	21	23	23	18	14
Exports									
Quantity									
Zinc concentrates									
Belgium-Luxembourg	kt	51	93	22	26	19	13	19	0
China	kt	426	823	248	153	217	263	176	207
Germany	kt	36	0	0	0	0	0	0	0
Japan	kt	315	311	92	69	78	70	103	38
Korea, Rep. of	kt	343	345	89	80	98	102	78	47
Netherlands	kt	284	351	90	84	81	80	67	22
Spain	kt	257	161	64	19	34	56	48	19
Other	kt	236	239	63	54	74	45	42	49
Total	kt	1 948	2 323	669	485	600	628	533	382
Refined zinc									
Chinese Taipei	kt	79	83	19	24	22	22	17	5
Hong Kong, China	kt	103	82	25	18	20	18	11	12
Indonesia	kt	17	15	3	4	4	4	2	2
Malaysia	kt	17	26	4	6	12	22	24	19
New Zealand	kt	12	12	3	3	3	3	3	2
United States	kt	5	0	0	0	0	0	0	0
Other	kt	141	192	39	46	44	48	37	64
Total	kt	374	411	94	101	105	116	93	104
Zinc content of all primary materials exported as	kt	1 321	1 507	406	332	383	426	356	294
Value									
Zinc concentrates	\$m	2 590	2 031	619	370	357	308	242	165
Refined zinc	\$m	1 707	1 319	314	270	281	261	225	193
Total	\$m	4 298	3 350	933	640	638	569	467	358
Prices									
LME cash b	US\$/t	3 672	2 599	2 623	2 429	2 113	1 771	1 186	1 174
Australia c	A\$/t	4 952	3 341	3 414	2 909	2 701	2 174	2 192	1 999

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.