



Australian mineral statistics 2010

March quarter 2010



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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	

Overview

- The index of export prices of energy and mineral resources increased by 7 per cent in the March quarter 2010 reflecting higher commodity prices, including for oil, metallurgical coal, thermal coal and the majority of metals. However, in the March quarter 2010, Australia's mineral resource export earnings declined by 3 per cent to \$30.2 billion, reflecting lower export volumes.
- Export volumes decreased for the majority of commodities including zinc, copper, aluminium, thermal coal, metallurgical coal and iron ore, which was largely as a result of lower production.
- In total, Australian production of mineral commodities declined during the quarter with only 30 per cent of commodities recording increases in production.
- Several factors contributed to the decline in production across a wide range of commodities. These include supply disruptions because of weather events and equipment failure.

Prices

In the March quarter 2010, the index of export prices for Australia's energy and mineral resources (export unit returns) increased by 7 per cent compared with the December quarter 2009. Export unit returns for energy minerals increased by 7 per cent, reflecting higher prices for crude oil and higher export unit values for thermal and metallurgical coal. The index of metals and other minerals prices also increased by 7 per cent, as a result of increases in the US dollar price for many base metals, gold and iron ore.

Compared with the March quarter 2009, the index of export unit returns was 27 per cent lower, as prices for energy minerals declined by 38 per cent and prices for metals and other minerals declined by 16 per cent. Lower export unit prices primarily reflected large declines in the contract prices for bulk commodities for the Japanese Fiscal Year 2009 (JFY, April 2009 to March 2010), and a 36 per cent appreciation of the Australian dollar against the US dollar.

Exports

Earnings from energy and mineral resource exports declined by 3 per cent to \$30.2 billion in the March quarter 2010 compared with the December quarter 2009. This increase reflects declines in the volume of exports for many commodities, which more than offset higher prices for many commodities during the quarter.

Commodities recording significant declines in export earnings in the March quarter 2010 included: uranium oxide, down \$51 million (28 per cent) to \$131 million; zircon concentrate, down \$23 million (24 per cent) to \$74 million; crude oil and other refinery feedstock, down \$348 million (15 per cent) to \$2 billion; lead, down \$60 million (13 per cent) to \$403 million; copper, down \$184 million (11 per cent) to \$1.5 billion; thermal coal, down \$378 million (10 per cent) to \$2.6 billion; and metallurgical coal, down \$388 million (7 per cent) to \$5 billion.

Lower export values for zircon concentrate reflects both lower export volumes and export unit values. Export values for uranium oxide, lead, crude oil and other refinery feedstock, copper,

Australian energy and mineral exports

Percentage change December quarter 2009 to March quarter 2010

	export volume	export value	prices
Crude oil ^a	-18%	-15%	+1%
LNG	0%	+21%	+21%
LPG	-16%	-4%	+15%
Metallurgical coal	-10%	-7%	+3%
Refinery products	-15%	+7%	+26%
Thermal coal	-13%	-10%	+4%
Uranium oxide (U ₃ O ₈)	-30%	-28%	+3%
Alumina	-8%	+3%	+12%
Aluminium (ingot metal) ^a	-11%	0%	+9%
Bauxite	-16%	-2%	+17%
Copper ^a	-14%	-11%	+8%
Diamonds	+30%	+9%	-16%
Gold ^a	0%	+1%	+1%
Iron and steel	+28%	+27%	-1%
Iron ore and pellets	-4%	+3%	+7%
Lead ^a	-28%	-13%	-7%
Manganese ore and concentrate	+3%	+23%	+20%
Nickel ^a	-16%	0%	+14%
Silver ^a	-15%	-8%	-4%
Tin ^a	+32%	+24%	+3%
Titanium and zircon	+10%	0%	-9%
Zinc ^a	-17%	-2%	+4%

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

thermal coal and metallurgical coal declined during the quarter because of lower export volumes, while export unit values recorded modest increases.

Commodities recording significant increases in export earnings in the March quarter included: gems other than diamonds, up \$6 million (86 per cent) to \$13 million; ilmenite concentrate, up \$13 million (27 per cent) to \$61 million; tin, up \$5 million (24 per cent) to \$26 million; iron and steel, up \$60 million (27 per cent) to \$285 million; and manganese ore and concentrates, up \$74 million (23 per cent) to \$391 million.

Increased export values for gems other than diamonds were underpinned by higher values for opal exports. The export values for ilmenite concentrate, tin, and iron and steel increased in the quarter as higher export volumes more than compensated for declines in export unit values. The export value of manganese ore and concentrates increased as a sharp rise in the export unit value reinforced the effect of higher export volumes.

Production

Production declined in the March quarter 2010 compared with the December quarter 2009, with only 30 per cent of commodities recording increases in the quarter. Significant production declines occurred for uranium oxide (U_3O_8) (30 per cent); refined copper (30 per cent); diamonds (28 per cent); refined nickel class 1 (21 per cent); and refined silver (15 per cent).

Production of uranium oxide and refined copper declined in the quarter, primarily reflecting continued interruptions at BHP Billiton's Olympic Dam operation in South Australia. Lower production of diamonds for the quarter was primarily a reflection of lower production at Rio Tinto's Argyle diamond mine in Western Australia. A decline in production of refined class 1 and intermediate nickel reflects lower output from Nickel West's Kwinana refinery, Queensland Nickel's Yabulu operation and Minara Resources' Murrin Murrin operation in Western Australia.

In contrast, increased production was observed for refined nickel class 2 (76 per cent); mined zinc (23 per cent); manganese (19 per cent); zircon concentrate (16 per cent); and synthetic rutile (9 per cent).

Production of class 2 refined nickel was higher in the March quarter, as a result of higher production from Queensland Nickel's Yabulu refinery. Mined zinc production was higher in the quarter, reflecting the resumption of normal operations at the Century zinc mine in Queensland. Production of zircon concentrate and synthetic rutile increased, predominantly from higher production at Iluka's Victorian and Western Australian operations. Higher manganese production for the quarter was underpinned by production increases from Western Australian operations.

Commodity highlights

Energy

Oil and Gas

Crude oil and condensate production during the March quarter 2010 declined by 6 per cent to 6322 megalitres compared with the December 2009 quarter. The fall in production was mainly as a result of flooding in South Australia, which affected the Cooper basin. Production from the Cooper basin was around 30 per cent lower compared with the December quarter. The flooding has resulted in more than 2 million barrels of production being deferred, with production also expected to be affected in the June quarter.

Natural gas production during the quarter remained steady at around 11 billion cubic metres.

As a result of the decline in production, crude oil and condensate export volumes fell by 18 per cent to 3788 million litres over the March quarter. Despite slightly higher crude oil prices, the value of crude oil and condensate exports fell by 15 per cent to \$2 billion.

LNG exports increased by 21 per cent to \$2.2 billion, supported by higher export prices.

Coal

Production of salable black coal is estimated to have fallen by 10 per cent in the March quarter, as coal production in Queensland was affected by severe weather associated with Cyclone Ului. Reflecting lower production of black coal, export volumes of both thermal and metallurgical coal declined in the quarter. Exports of metallurgical coal decreased by 10 per cent to 35.4 million tonnes, while thermal coal exports fell by 13 per cent to 30.8 million tonnes.

In the March quarter 2010, export unit returns for metallurgical and thermal coal increased by 3 per cent and 4 per cent, respectively, compared with the December quarter 2009. In the March quarter, lower export volumes more than offset a slight increase in export prices, with the value of black coal exports declining by 8 per cent to \$7.6 billion.

Uranium

Uranium production declined by 30 per cent in the March quarter. This was because of lower production from BHP Billiton's Olympic Dam, where a failure of the main haulage shaft caused production disruptions, and the lower grade ore processed at Energy Resources of Australia's Ranger operation. The value of uranium exports declined by 28 per cent to \$131 million in the March quarter associated with lower export volumes.

Metals and other minerals

Iron ore

In the March quarter 2010, Australian production of iron ore was 4 per cent lower than the December quarter 2009. This was partially attributable to modest declines in Rio Tinto's production, which was restricted by the availability of certain items of production equipment. In addition, BHP Billiton's production was negatively affected by weather related disruptions

and activities associated with the recently completed Rapid Growth Project 4. Reflecting lower production, export volumes declined by 4 per cent. Higher prices for iron ore sold on the spot market more than offset a decline in export volumes. As a result, export values increased by 3 per cent to \$7 billion.

Gold

Gold mine production remained unchanged at 60 tonnes in the March quarter 2010 compared with the December quarter 2009. Increases in production from projects including Newmont's Boddington redevelopment and the Kalgoorlie Joint Venture Super Pit were offset by decreased production from projects including Newcrest's Telfer mine and Barrick Gold's Yilgarn South operations. Refined gold production fell by 11 per cent to 77 tonnes as less refined gold was produced from overseas sourced scrap and recycled jewellery. Export volumes were unchanged at 81 tonnes. A rise in the US dollar denominated gold price led to a 1 per cent rise in unit export returns. This rise in unit export returns supported a 1 per cent increase in export earnings to \$3.1 billion in the March quarter 2010.

Copper

In the March quarter 2010, copper mine production fell by 10 per cent compared with the previous quarter, while production of refined copper fell by 30 per cent. This was largely as a result of reduced production at BHP Billiton's Olympic Dam operation, where a failure of the main haulage shaft significantly affected production of both mined and refined copper. The value of copper exports declined by 11 per cent to \$1.5 billion in the quarter, as lower export volumes offset higher export prices.

Nickel

Nickel mine production declined by 7 per cent in the March quarter to 38 000 tonnes. Decreased production from BHP Billiton's Nickel West, Xstrata's Cosmos operations and Independence Group's Long Nickel Mine was partly offset by increased production at Panoramic Resources' operations and new production from Western Area's Spotted Quoll operation. Refined nickel production decreased by 17 per cent in the quarter as a result of disruptions to production at BHP Billiton's Nickel West Kwinana refinery in March. Nickel export volumes decreased by 16 per cent in the March quarter as a result of the decrease in refined production. Export earnings from nickel remained steady at around \$976 million, as higher export prices were offset by lower production.

Zinc

Zinc mine production increased by 23 per cent to around 336 000 tonnes in the March quarter 2010 compared with the December quarter 2009. This mainly reflects the resumption of normal production at the Century zinc mine in Queensland. Production at Century was adversely affected after the suspension of the concentrator in the December quarter 2009. The value of zinc exports declined by 2 per cent to \$533 million in the March quarter 2010, in line with lower export volumes.

Quarterly export summary

Australian minerals and energy sector

		export volume			export value			
		Mar 2010	Mar 09	Dec 09 to	Mar 2010	Mar 09	Dec 09 to	
			to Mar 10	Mar 09		to Mar 10	Mar 09	
		% change	% change		% change	% change		
Bauxite	kt	1 909	65	-16	\$m	44	34	-2
Alumina a	kt	3 972	-2	-8	\$m	1 242	-8	3
Aluminium (ingot metal)	kt	373	-13	-11	\$m	932	-7	0
Coal, black								
Coking	Mt	35	49	-10	\$m	4 956	-36	-7
Steaming	Mt	31	-10	-13	\$m	2 594	-48	-10
Copper bs	kt	177	6	-14	\$m	1 461	34	-11
Diamonds cs	'000 ct	3 860	-29	30	\$m	97	-60	9
Gold bs	t	81	-35	0				
Iron								
Iron ore and pellets	kt	94 009	20	-4				
Iron and steel s	kt	430	4	28	\$m	7 034	-21	3
Lead bs	kt	134	6	-27	\$m	285	31	27
Manganese ore and concentrate s	kt	1 466	108	3	\$m	403	20	-13
Nickel ds	kt	53	1	-15	\$m	391	56	23
Petroleum					\$m	976	43	0
Crude oil and other refinery feedstock	ML	3 788	-4	-18	\$m	4645		
LNG s	Mt	4	4	0	\$m	1 999	23	-15
LPG	ML	638	2	-16	\$m	2 221	-11	21
Refinery products	ML	180	-47	-15	\$m	286	33	-4
Salt s	kt	2 803	2	1	\$m	139	-32	7
Tin b	t	1 647	0	32	\$m	62	4	2
Titanium					\$m	66	12	-8
Ilmenite concentrate	kt	541	39	27	\$m	26	3	24
Leucoxene concentrate	kt	4	75	-6	\$m	61	44	27
Rutile concentrate	kt	147	-1	5	\$m	3	75	0
Synthetic rutile s	kt	119	-7	-9	\$m	100	2	19
Titanium dioxide pigment	kt	41	56	-11	\$m	64	-6	3
Uranium oxide (U₃O₈)	t	1 142	-47	-30	\$m	101	20	-7
Zinc b	kt	318	9	-18	\$m	131	-55	-28
Zircon concentrate	kt	184	6	-8	\$m	533	47	-2
					\$m	74	-45	-24
					\$m	885	2	-29
Total mineral resources g					\$m	30 248	-22	-3
Total merchandise					\$m	45 404	-19	-3
Total goods and services					\$m	59 272	-14	-2

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 2010	March 09 to March 10 % change	Dec 09 to March 09 % change
Bauxite	kt	16 612	6	-1
Alumina	kt	4 952	3	-3
Aluminium (ingot metal)	kt	471	-3	-3
Coal				
Black, raw	Mt	104	6	-14
Black, salable	Mt	84	14	-10
Brown as	Mt	na		
Copper				
Mine bs	kt	191	-4	-10
Blister c	kt	70	-31	-29
Refined	kt	71	-35	-30
Diamonds	'000 ct	2 571	-42	-28
Gold				
Mine bs	t	60	13	0
Refined	t	77	-40	-11
Iron				
Iron ore and concentrate	kt	103 449	29	-4
Iron and steel	kt	1 544	89	2
Raw steel	kt	1 780	86	4
Lead				
Mine bs	kt	146	23	-1
Bullion c	kt	36	13	0
Refined	kt	52	16	2
Manganese	kt	1 641	139	19
Nickel				
Mine bs	kt	38	-17	-7
Intermediate	kt	11	83	-8
Refined, class 1	kt	27	-4	-21
Refined, class 2	kt	2	-33	100
Petroleum, field				
Crude oil and condensate	ML	6 298	-8	-6
LPG (naturally occurring)	ML	957	10	-5
Natural gas	Mm3	10 630	10	-2
Total Refined Petroleum	ML	9 273	-4	-1
Salt	kt	2 860	2	0
Silver				
Mine bs	t	458	31	1
Refined	t	163	-12	-15
Tin				
Mine bs	t	1 426	-1	0
Titanium				
Ilmenite concentrate	kt	327	-20	-2
Leucoxene concentrate	kt	41	-5	-2
Rutile concentrate	kt	70	-10	-4
Synthetic rutile s	kt	151	-21	9
Titanium dioxide pigment	kt	68	19	0
Uranium oxide (U ₃ O ₈)	t	1 142	-49	-30
Zinc				
Mine bs	kt	336	15	23
Refined	kt	118	-6	-9
Zircon concentrate	kt	121	-16	16

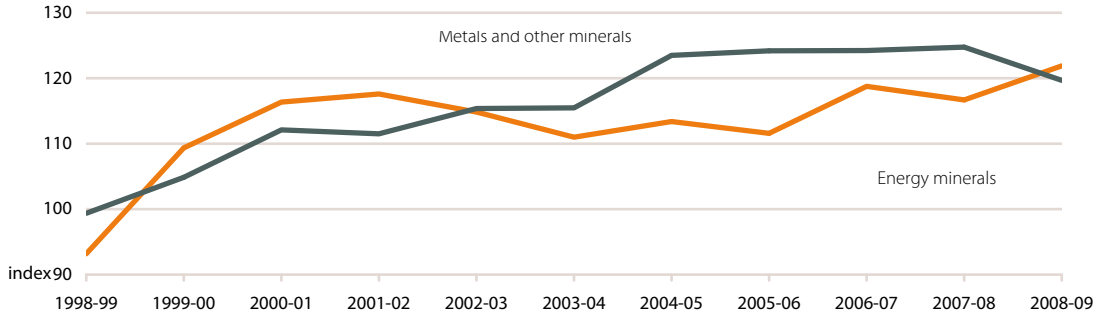
a Total metallic content of minerals produced. **b** Metallic content. **p** Preliminary. **s** ABARE estimate. **na** Not available.

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

Resource sector indicators

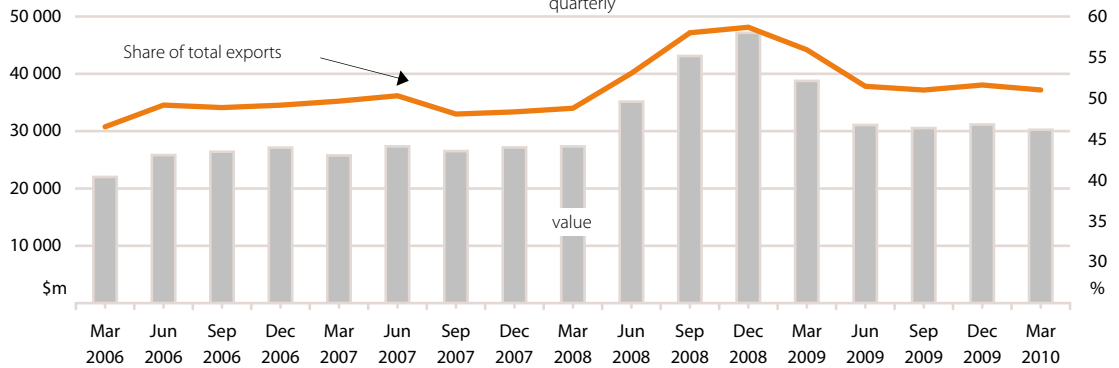
Mine production

base: 1997-98 = 100



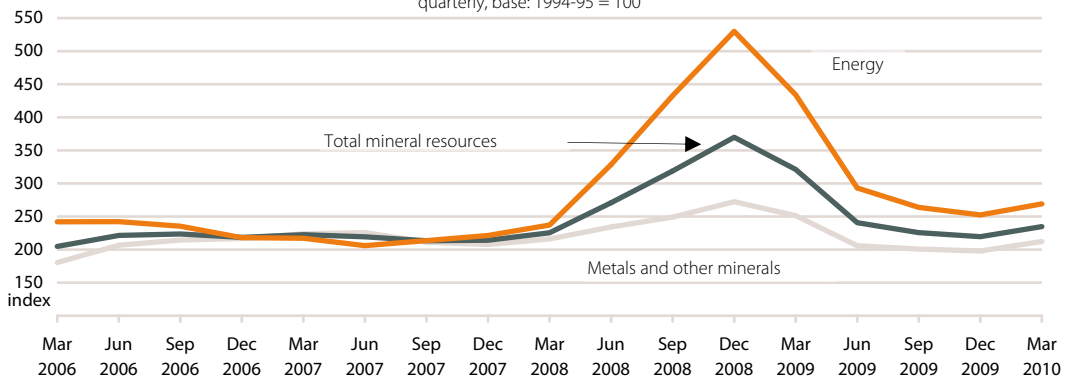
Mineral resources exports

quarterly



Export unit returns

quarterly, base: 1994-95 = 100



1 Production summary

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Bauxite	kt	63 463	63 966	16 310	15 678	16 225	16 552	16 776	16 612
Alumina	kt	19 359	19 597	5 000	4 810	4 974	5 038	5 117	4 952
Aluminium (ingot metal)	kt	1 964	1 974	499	485	492	482	484	471
Coal									
Black, raw	Mt	421	438	118	98	113	118	121	104
Black, salable	Mt	327	334	89	74	88	93	93	84
Brown as	Mt	66	65	na	na	na	na	na	na
Copper									
Mine bs	kt	863	890	227	198	230	214	212	191
Blister c	kt	395	459	122	101	115	108	98	70
Refined s	kt	444	499	134	109	122	114	101	71
Diamonds	'000 ct	16 528	15 166	5 428	4 447	451	2 333	3 558	2 571
Gold									
Mine bs	t	230	218	54	53	55	54	60	60
Refined	t	364	386	89	129	76	87	87	77
Iron									
Iron ore and concentrate	kt	324 693	352 996	80 251	80 487	98 844	106 961	107 776	103 449
Iron and steel s	Mt	8 151	5 568	1 681	958	964	1 501	1 712	1 780
Lead									
Mine bs	kt	641	596	166	119	150	150	147	146
Bullion c	kt	152	155	39	32	40	38	36	36
Refined	kt	203	213	56	45	55	53	51	52
Manganese s	kt	5 412	3 730	876	686	941	1 443	1 381	1 641
Nickel									
Mine bs	kt	190	185	49	46	38	40	41	38
Intermediate	kt	45	21	11	6	4	5	12	11
Refined, class 1	kt	105	95	23	28	31	30	34	27
Refined, class 2	kt	15	15	5	3	3	1	1	2
Petroleum, field									
Crude oil and condensate s	ML	25 789	27 788	7 491	6 851	6 477	6 882	6 696	6 322
LPG (naturally occurring)	ML	3 971	3 929	934	870	1 069	1 104	1 010	957
Natural gas	Mm ³	39 283	40 109	10 054	9 658	10 766	11 050	10 871	10 629
Petroleum, total refinery	ML	39 575	39 546	10 131	9 620	9 850	9 531	9 357	9 273
Salt s	kt	11 243	11 202	2 790	2 804	2 818	2 832	2 846	2 860
Silver									
Mine bs	t	1 867	1 775	546	349	429	402	453	458
Refined	t	605	751	188	186	195	189	192	163
Tin									
Mine bs	t	1 631	3 879	887	1 439	1 361	1 404	1 426	1 763
Titanium s									
Ilmenite concentrate	kt	2 208	1 869	502	408	439	355	332	327
Leucoxene concentrate	kt	157	134	25	43	41	40	42	41
Rutile concentrate	kt	327	300	78	78	66	63	73	70
Synthetic rutile	kt	672	726	190	190	153	135	138	151
Titanium dioxide pigment	kt	201	221	55	57	60	63	68	68
Uranium oxide (U ₃ O ₈)	t	10 114	10 311	2 652	2 252	2 790	2 685	1 638	1 142
Zinc									
Mine bs	kt	1 571	1 411	393	291	357	369	273	336
Refined	kt	507	506	126	126	132	137	130	118
Zircon concentrate s	kt	562	513	125	144	116	112	104	121

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 Mines and Energy; Department of Resources, Energy and Tourism, Canberra; ABARE.

2 Volume of mine production indexes ^a

	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09
Energy minerals	117.6	114.8	111.0	113.4	111.6	118.8	116.7	121.9
Metals and other minerals	111.5	115.4	115.5	123.5	124.2	124.2	124.7	119.7
Total minerals	114.9	115.2	113.3	118.6	118.0	121.3	120.7	120.9

^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

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Bauxite	kt	7 917	7 470	2 174	1 157	1 317	1 616	2 284	1 909
Alumina ^a	kt	15 739	16 395	4 396	4 056	4 172	4 074	4 314	3 972
Aluminium (ingot metal)	kt	1 650	1 748	442	432	438	386	419	373
Coal, black									
Metallurgical	Mt	136.92	125.24	32.14	23.74	33.04	38.80	39.45	35.44
Thermal	Mt	115.07	136.36	35.02	34.31	34.58	34.68	35.58	30.84
Copper ^{bs}	kt	732	815	231	167	212	203	205	177
Diamonds ^{cs}	'000 ct	16 528	16 279	5 428	5 428	583	675	2 975	3 860
Gold ^{bs}	t	381.58	437.26	105.88	124.44	81.99	74.57	80.70	81.00
Iron									
Iron ore and pellets	kt	294 293	323 524	69 336	78 319	88 945	97 594	97 698	94 009
Iron and steel ^s	kt	2 131	1 741	397	413	488	280	337	430
Lead ^{bs}	kt	588	645	163	126	182	154	185	134
Manganese ore									
and concentrate	kt	5 105	3 226	283	706	1 106	1 422	1 421	1 466
Nickel ^{ds}	kt	211	194	58	53	50	49	63	53
Petroleum									
Crude oil and other									
refinery feedstock	ML	15 975	16 588	4 804	3 964	3 765	4 123	4 599	3 788
LNG ^s	Mt	13.68	15.41	3.95	4.15	4.04	4.40	4.33	4.33
LPG	ML	2 589	2 500	596	622	621	846	761	638
Refinery products	ML	1 807	1 164	288	343	296	211	212	180
Salt ^s	kt	10 686	10 978 ^s	2 734	2 748	2 762	2 775	2 789	2 803
Tin ^b	t	3 079	4 159	893	1 651	1 483	1 700	1 252	1 647
Titanium									
Ilmenite concentrate	kt	894	1 538	317	389	567	396	426	541
Leucoxene concentrate	kt	56	20	6	2	3	4	4	4
Rutile concentrate	kt	399	550	116	148	177	122	140	147
Synthetic rutile ^s	kt	513	512	128	127	128	130	130	119
Titanium dioxide pigment	kt	175	141	29	26	55	52	46	41
Uranium oxide (U ₃ O ₈)	t	10 139	10 114	2 526	2 172	2 844	2 685 ^s	1 638 ^s	1 142 ^s
Zinc ^b	kt	1 507	1 471	356	291	399	349	385	318
Zircon concentrate	kt	637	685	167	174	177	193	200	184

continued

3 Exports summary

continued

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Bauxite	\$m	206	192	58	33	27	30	45	44
Alumina a	\$m	5 809	6 015	2 013	1 349	1 102	1 103	1 204	1 242
Aluminium (ingot metal)	\$m	4 967	4 724	1 393	1 004	888	843	936	932
Coal, black									
Metallurgical	\$m	16 038	36 813	12 518	7 690	6 240	5 712	5 344	4 956
Thermal	\$m	8 365	17 885	5 709	4 971	3 430	3 143	2 872	2 594
Copper e	\$m	6 730	5 863	1 595	1 091	1 557	1 524	1 645	1 461
Diamonds cs	\$m	625	676	190	241	76	59	89	97
Gems, other than diamonds	\$m	52	43	11	15	8	9	7	13
Gold, refined	\$m	10 903	16 146	3 890	5 388	3 099	2 689	3 028	3 069
Iron									
Iron ore and pellets	\$m	20 511	34 239	8 714	8 884	7 052	7 181	6 856	7 034
Iron and steel s	\$m	1 562	1 363	418	218	207	201	225	285
Lead e	\$m	2 027	1 637	463	336	424	429	463	403
Manganese ore									
and concentrate	\$m	1 532	1 406	243	250	195	237	317	391
Nickel es	\$m	5 655	2 705	769	681	704	862	979	976
Petroleum									
Crude oil and other									
refinery feedstock	\$m	10 484	8 757	2 220	1 620	1 667	2 089	2 347	1 999
LNG	\$m	5 854	10 079	3 815	2 483	1 591	1 713	1 840	2 221
LPG	\$m	1 182	1 044	290	215	198	292	297	286
Refinery products	\$m	1 323	788	194	205	188	136	130	139
Salt s	\$m	232	237	59	59	60	61	61	62
Silver, refined	\$m	187	245	73	58	66	56	72	66
Tin e	\$m	42	70	18	26	24	26	21	26
Titanium									
Ilmenite concentrate	\$m	104	171	37	42	61	44	48	61
Leucoxene concentrate	\$m	15	12	5	1	2	3	3	3
Rutile concentrate	\$m	277	335	64	98	105	82	84	100
Synthetic rutile s	\$m	305	258	59	68	62	70	62	64
Titanium dioxide pigment	\$m	375	396	95	85	144	128	109	101
Uranium oxide (U ₃ O ₈)	\$m	887	990	246	293	304	291 s	182 s	131 s
Zinc e	\$m	3 350	1 858	467	363	460	435	545	533
Zircon concentrate	\$m	421	540	137	134	142	118	97	74
Other mineral resources f	\$m	6 148	4 622	1 390	870	992	970	1 251	885
Total mineral resources g	\$m	116 177	160 115	47 153	38 773	31 074	30 538	31 163	30 248
Total merchandise	\$m	182 952	231 470	66 816	55 838	47 516	46 591	46 945	45 404
Total goods and services	\$m	233 597	284 343	80 343	69 316	60 366	59 851	60 355	59 272

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							
	2007-08	2008-09				2009-10 p		
	June	Sept	Dec	Mar	June	Sept	Dec	Mar
Energy minerals	328.5	432.6	530.1	434.0	293.1	263.8	252.4	269.1
Metals and other minerals	234.2	249.2	272.4	251.3	205.8	200.8	197.9	212.2
Total mineral resources	270.9	318.8	369.8	321.1	240.7	225.7	219.5	234.8

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

Sources: Australian Bureau of Statistics, Canberra; ABARE.

5 Imports summary

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Quantity									
Diamonds a	'000 ct	2 964	767	214	169	174	208	202	315
Iron ore	kt	4 401	3 599	1 561	550	358	1 268	1 674	1 008
Ingot steel	kt	1 848	2 082	675	364	231	349	424	488
Ferroalloys	kt	97	54	19	9	6	12	15	18
Petroleum									
Crude oil and other refinery feedstock	ML	26 223	24 302	6 100	5 571	6 334	6 499	6 665	6 857
Natural gas	kt	4 032	4 752	1 126	1 191	1 141	1 282	1 069	1 025
Refinery products	ML	17 982	19 697	5 464	4 940	4 780	5 154	5 577	4 508
Phosphate rock	kt	707	540	189	1	28	0	73	11
Value									
Diamonds a	\$m	444	417	101	99	102	110	114	113
Gold b	\$m	7 311	11 250	3 054	3 898	1 636	1 677	1 984	1 585
Iron ore	\$m	311	269	141	53	10	56	76	56
Ingot steel	\$m	2 225	3 191	1 185	635	345	379	463	512
Ferroalloys	\$m	154	181	78	29	16	21	27	37
Petroleum									
Crude oil and other refinery feedstock	\$m	17 149	14 727	3 824	2 380	2 975	3 573	3 642	3 697
Natural gas	\$m	724	2 166	523	850	377	326	330	286
Refinery products	\$m	12 730	13 129	4 009	2 662	2 503	2 821	3 027	2 577
Phosphate rock	\$m	80	193	95	0	6	0	8	1
Silver	\$m	80	223	81	98	12	18	51	32
Other	\$m	1 271	1 353	563	237	172	289	370	537
Total	\$m	42 479	47 098	13 653	10 943	8 154	9 271	10 092	9 433

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

		2007-08	2008-09	quarter					
				2008-09				2009-10 p	
				Sept	Dec	Mar	June	Sept	Dec
Energy									
Petroleum									
Onshore	\$m	493.8	492.3	120.4	135.8	86.2	149.9	148.7	212.3
Offshore	\$m	2 541.1	3 318.4	660.9	877.6	912.4	867.5	649.0	614.7
Total	\$m	3 034.9	3 810.7	781.3	1 013.4	998.6	1 017.4	797.7	827.0
Coal	\$m	234.8	297.3	68.5	82.9	69.2	76.7	82.1	84.7
Uranium	\$m	231.5	185.2	56.7	51.9	27.7	48.9	53.9	49.1
Total energy	\$m	3 501.2	4 293.2	906.5	1 148.2	1 095.5	1 143.0	933.7	960.8
Metals and other minerals									
Copper	\$m	293.5	178.7	79.2	55.7	25.8	18.0	37.0	54.0
Diamonds	\$m	21.7	10.0	2.4	3.5	2.0	2.1	2.7	1.0
Gold	\$m	592.6	438.0	133.2	120.4	85.6	98.8	133.4	145.5
Iron ore	\$m	449.8	588.7	162.0	182.5	105.6	138.6	140.5	136.5
Mineral sands	\$m	37.0	30.6	9.1	9.1	5.4	7.0	9.5	6.5
Nickel, cobalt	\$m	303.2	259.9	95.0	78.5	41.2	45.2	48.6	51.3
Silver, lead and zinc	\$m	186.5	80.5	34.8	20.2	17.6	7.9	12.3	10.4
Other	\$m	110.8	154.3	46.8	43.8	23.4	40.3	37.4	39.8
Total metals and other minerals	\$m	1 995.1	1 740.7	562.5	513.7	306.6	357.9	421.4	445.0
Total expenditure	\$m	5 496.3	6 033.9	1 469.0	1 661.9	1 402.1	1 500.9	1 355.1	1 405.8

p Preliminary.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

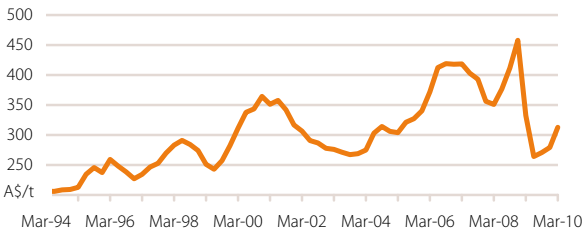
7 Mineral resources prices

	Alumina		Aluminium		Gold		Iron ore ^a		Thermal coal	Metallurgical coal	Crude oil ^b	Uranium ^c
	avg export	(high grade)	London	avg export	London	avg export	avg export	avg export	world trade	Industry		
	unit value	LME cash	AM fix	unit value	AM fix	unit value	unit value	unit value	wtd ave	spot price		
	A\$/t	US\$/t	US\$/oz	A\$/t	A\$/t	A\$/t	A\$/t	A\$/t	US\$/bbl	US\$/lb		
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				
2008-09	366.90	1 781.42	873.99	105.83	131.16	293.94	66.05	51.25				
2009												
January	343.35	1 413.12	857.73	111.20	149.11	354.15	40.36	48.00				
February	343.03	1 330.20	939.76	117.98	152.32	340.98	41.23	45.00				
March	311.52	1 335.84	925.99	110.88	132.72	287.93	45.19	42.00				
April	277.91	1 420.83	892.66	86.76	108.66	242.13	49.36	44.00				
May	260.36	1 460.39	926.83	75.67	99.37	172.42	52.91	49.00				
June	253.54	1 573.73	947.81	76.25	91.04	159.90	67.70	52.00				
July	267.09	1 667.96	934.27	72.79	95.91	153.71	64.62	47.00				
August	268.06	1 933.75	949.50	73.69	87.83	143.56	71.42	46.00				
September	277.31	1 834.09	996.44	74.08	87.33	144.94	67.87	42.75				
October	270.81	1 878.57	1 043.51	70.74	80.17	133.61	71.16	49.50				
November	278.20	1 946.29	1 126.12	69.53	82.58	133.30	76.19	45.50				
December	287.66	2 180.10	1 135.01	70.24	79.67	138.98	73.11	44.50				
2010												
January	308.27	2 235.15	1 119.58	70.78	82.41	137.67	76.07	42.50				
February	324.03	2 058.91	1 095.80	78.50	85.28	139.96	73.04	41.75				
March	308.36	2 205.63	1 115.55	75.80	84.98	142.65	77.54	42.00				
	Copper	Lead	Zinc	Silver ^d	Nickel	Ilmenite ^e	Rutile ^f	Zircon ^g				
	(high grade)		(high grade)									
	LME cash	LME cash	LME cash	London fix	LME cash	avg export	avg export	avg export				
	US\$/t	US\$/t	US\$/t	US\$/troy oz	US\$/t	unit value	unit value	unit value				
						A\$/t	A\$/t	A\$/t				
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	7 791.21	2 892.53	2 598.83	1 544.29	28 564.32	116.32 s	693.21	660.98				
2008-09	4 935.58	1 454.07	1 400.89	1 289.13	13 322.04	111.12 s	609.23	788.70				
2009												
January	3 220.69	1 132.74	1 187.38	1 129.14	11 354.05	na	1 201.24	1 412.00				
February	3 314.73	1 100.53	1 112.08	1 341.25	10 408.75	na	1 309.77	1 595.97				
March	3 749.75	1 238.91	1 216.75	1 311.68	9 696.36	na	1 093.22	1 336.37				
April	4 406.53	1 383.05	1 378.80	1 251.48	11 165.75	na	1 151.07	1 369.15				
May	4 568.58	1 439.89	1 483.76	1 402.89	12 633.42	na	1 088.67	1 284.57				
June	5 011.82	1 674.45	1 557.27	1 465.43	14 916.90	na	1 030.52	1 242.78				
July	5 215.54	1 678.61	1 578.61	1 336.17	15 984.57	na	1 090.98	1 211.31				
August	6 165.30	1 900.10	1 821.68	1 434.75	19 641.75	na	1 056.25	1 242.89				
September	6 196.43	2 204.55	1 883.93	1 638.95	17 452.27	na	1 042.86	1 177.60				
October	6 287.98	2 240.77	2 047.50	1 723.61	18 525.23	na	951.04	1 059.08				
November	6 675.60	2 308.76	2 193.38	1 782.13	16 991.19	na	920.56	1 074.11				
December	6 981.71	2 328.52	2 375.95	1 767.29	17 066.43	na	1 033.38	1 002.09				
2010												
January	7 386.25	2 368.38	2 434.45	1 778.70	18 439.25	na	967.59	1 000.71				
February	6 848.18	2 123.68	2 156.90	1 587.30	18 976.00	na	914.43	1 021.84				
March	7 462.83	2 172.09	2 275.07	1 710.61	22 459.55	na	883.63	970.56				

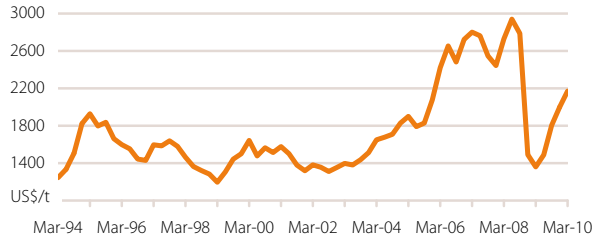
a Lump and fines. **b** US Department of Energy, *Energy Information Administration*. **c** Average of weekly restricted spot price published by The Ux Consulting Company. **d** London fix rate from May 2001; Handy and Harman, commercial bar, minimum 99.9 per cent prior to May 2001. **e** Bulk grade 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 2010

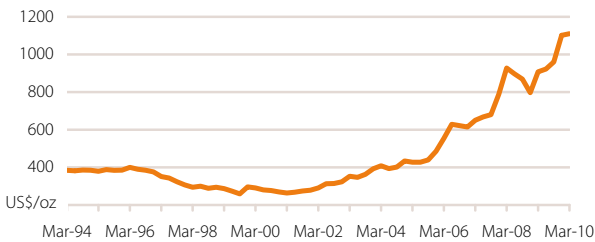
Alumina



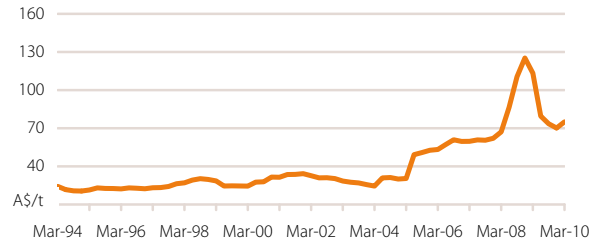
Aluminium



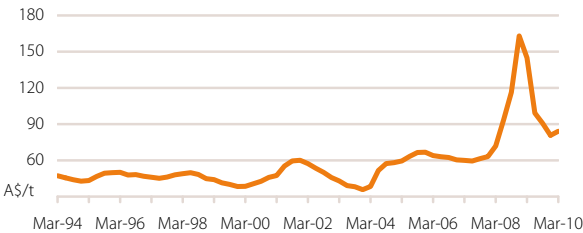
Gold



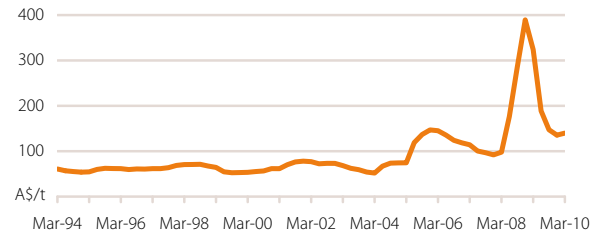
Iron ore



Thermal coal



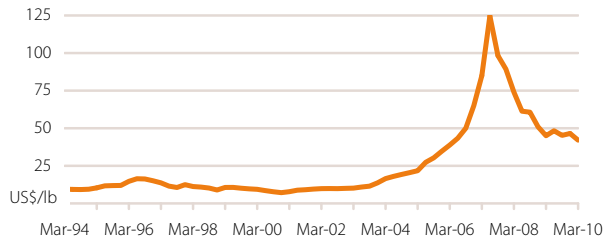
Metallurgical coal



Crude oil

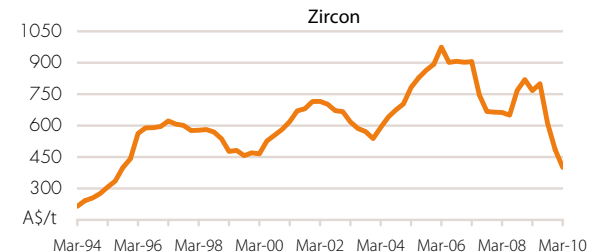
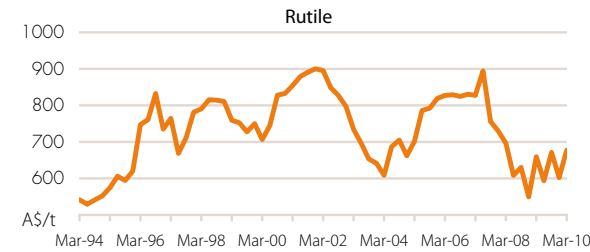
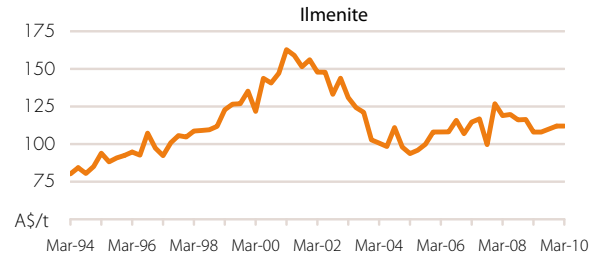
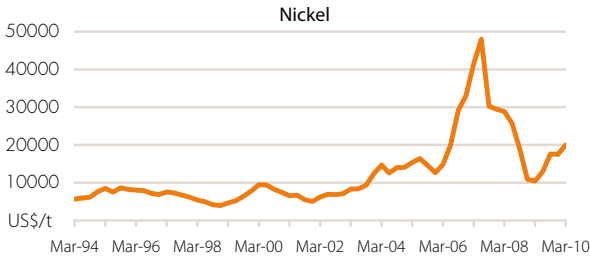
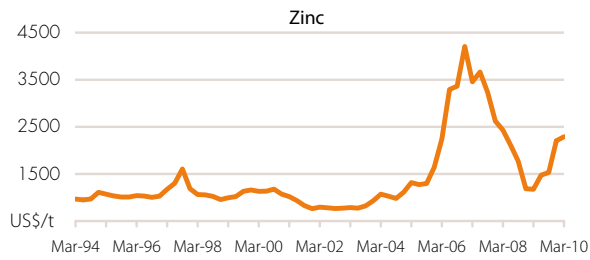
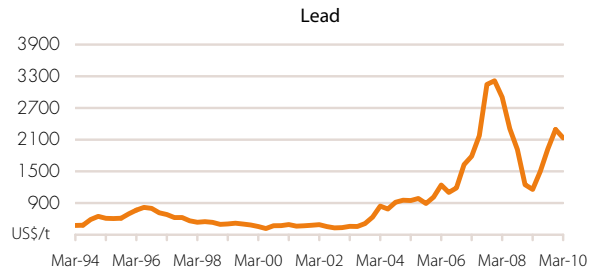
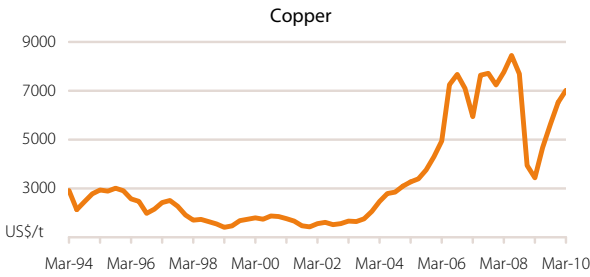


Uranium



Mineral resources prices, ended March quarter 2010

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

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine									
Bauxite									
Queensland	kt	16 814	16 591	4 285	4 085	4 125	4 205	4 303	4 303
Western Australia ^s	kt	41 398	41 079	10 415	10 111	10 343	10 500	10 870	10 500
Northern Territory	kt	5 251	6 296	1 609	1 482	1 757	1 846	1 603	1 809
Australia ^s	kt	63 463	63 966	16 310	15 678	16 225	16 552	16 776	16 612
Alumina content ^s	kt	23 406	23 894	6 105	5 850	6 075	6 184	6 222	6 245
Smelter and refinery									
Alumina	kt	19 359	19 597	5 000	4 810	4 974	5 038	5 117	4 952
Aluminium (ingot metal)	kt	1 964	1 974	499	485	492	482	484	471
Exports									
Quantity									
Bauxite ^a	kt	7 917	7 470	2 174	1 157	1 317	1 616	2 284	1 909
Alumina ^{bc}	kt	15 739	16 395	4 396	4 056	4 172	4 074	4 314	3 972
Aluminium (ingot metal)									
Chinese Taipei	kt	195	164	36	27	49	52	48	44
Indonesia	kt	85	76	19	9	22	30	30	22
Japan	kt	609	478	163	85	58	90	140	139
Korea, Rep. of	kt	231	369	77	131	103	91	84	70
Malaysia	kt	101	144	38	51	30	32	26	18
Thailand	kt	220	185	49	43	37	38	47	42
Other	kt	207	332	59	86	139	53	44	39
Total	kt	1 650	1 748	442	432	438	386	419	373
Value									
Bauxite ^a	\$m	206	192	58	33	27	30	45	44
Alumina ^{bc}	\$m	5 809	6 015	2 013	1 349	1 102	1 103	1 204	1 242
Aluminium (ingot metal)	\$m	4 967	4 724	1 393	1 004	888	843	936	932
Imports									
Quantity									
Bauxite ^a	kt	8	14	5	3	0	0	0	2
Alumina ^{bc}	kt	12	10	4	2	1	1	2	3
Aluminium (ingot metal)	kt	3	4	1	1	2	3	4	4
Value									
Bauxite	\$m	3	10	4	3	0	0	0	1
Alumina ^b	\$m	13	13	5	2	2	2	3	4
Aluminium (ingot metal)	\$m	10	10	2	3	3	6	8	8
Prices									
Alumina ^d	A\$/t	369	367	458	332	264	271	279	313
Aluminium									
LME cash ^e	US\$/t	2 665	1 781	1 490	1 360	1 488	1 805	2 000	2 171
Australia ^d	A\$/t	3 011	2 702	3 155	2 327	2 027	2 183	2 237	2 495

^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

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine									
Black coal, raw									
Underground	Mt	104.80	103.28	28.57	22.08	25.69	28.29	28.74	26.49
Opencut	Mt	316.38	334.69	89.11	76.02	87.75	90.09	92.08	77.27
New South Wales	Mt	177.02	182.18	48.50	41.39	45.29	51.61	47.45	44.94
Queensland	Mt	233.24	244.52	66.36	53.90	65.32	63.94	70.55	56.00
Western Australia ^a	Mt	6.33	6.94	1.74	1.74	1.74	1.70	1.70	1.70
South Australia ^a	Mt	3.83	3.84	0.96	0.96	0.96	0.96	0.96	0.96
Tasmania ^a	Mt	0.76	0.54	0.14	0.14	0.14	0.16	0.16	0.16
Australia	Mt	421.18	438.01	117.69	98.11	113.44	118.37	120.82	103.76
Black coal, salable									
Underground	Mt	83.78	81.65	22.13	17.20	20.89	21.52	21.39	18.50
Opencut	Mt	243.02	251.98	66.48	56.36	67.47	71.96	71.71	63.97
New South Wales	Mt	134.98	135.94	35.19	31.30	34.19	39.72	36.98	34.37
Queensland	Mt	180.92	186.43	50.62	39.45	51.36	50.95	53.30	46.78
Western Australia ^a	Mt	6.44	6.80	1.70	1.70	1.70	1.70	1.70	1.70
South Australia ^a	Mt	3.84	3.84	0.96	0.96	0.96	0.96	0.96	0.96
Tasmania ^a	Mt	0.62	0.62	0.15	0.15	0.15	0.15	0.15	0.15
Australia	Mt	326.80	333.63	88.62	73.56	88.36	93.48	93.10	83.97
Brown coal ^b									
Victoria ^s	Mt	66.03	65.00	na	na	na	na	na	na
Exports									
Quantity									
Metallurgical coal, high quality									
Brazil	Mt	3.27	2.34	0.60	0.23	0.55	0.38	0.97	0.72
China	Mt	1.37	9.81	0.07	3.66	5.65	5.74	3.93	3.05
Chinese Taipei	Mt	3.43	2.66	0.81	0.43	0.69	0.84	0.68	0.76
European Union 27	Mt	19.82	12.79	4.47	1.35	1.93	2.82	3.15	2.83
India	Mt	18.94	19.17	4.05	3.35	5.69	5.52	6.27	5.01
Japan	Mt	24.87	22.78	6.85	4.59	4.57	6.30	6.77	5.69
Korea, Rep. of	Mt	6.57	5.47	1.79	1.44	1.02	1.79	1.35	1.88
Other	Mt	5.37	4.61	1.46	0.50	0.74	0.95	1.00	1.14
Total	Mt	83.65	79.63	20.12	15.55	20.84	24.34	24.13	21.06
Metallurgical coal, other ^c									
European Union 27	Mt	4.69	1.90	0.42	0.33	0.25	0.22	0.57	0.41
India	Mt	5.28	5.10	1.05	0.73	1.68	1.70	1.86	1.67
Japan	Mt	25.33	19.44	5.53	3.91	4.00	5.05	5.48	5.60
Other	Mt	17.96	19.17	5.04	3.22	6.28	7.48	7.42	6.70
Total	Mt	53.27	45.61	12.03	8.19	12.20	14.45	15.32	14.37
Total metallurgical coal	Mt	136.92	125.24	32.14	23.74	33.04	38.80	39.45	35.44
Thermal coal									
Chinese Taipei	Mt	18.56	20.30	5.32	4.98	4.62	5.25	4.98	4.54
European Union 27	Mt	2.15	3.72	0.84	1.22	0.75	0.13	0.08	0.00
Japan	Mt	66.92	62.58	16.77	16.00	12.20	16.09	16.40	15.42
Korea, Rep. of	Mt	18.55	30.14	8.61	8.04	8.02	6.06	7.03	5.71
Other	Mt	8.89	19.62	3.48	4.07	9.00	7.15	7.09	5.17
Total	Mt	115.07	136.36	35.02	34.31	34.58	34.68	35.58	30.84

continued

9 Coal

continued

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Exports									
Quantity d									
Other coal	Mt	0.20	0.15	0.00	0.00	0.14	0.00	0.22	0.07
Value									
Metallurgical coal									
High quality	\$m	10 847	25 344	8 534	5 328	4 232	4 016	3 662	3 372
Other quality	\$m	5 191	11 469	3 983	2 362	2 008	1 696	1 682	1 585
Total metallurgical coal	\$m	16 038	36 813	12 518	7 690	6 240	5 712	5 344	4 956
Thermal coal									
Other coal	\$m	8 365	17 885	5 709	4 971	3 430	3 143	2 872	2 594
Other coal	\$m	12	17	0	2	14	0	21	7
Total coal	\$m	24 416	54 715	18 227	12 663	9 684	8 855	8 237	7 557
Coke	\$m	176	232	71	42	70	26	17	17
Imports									
Quantity									
Coke	Mt	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00
Value									
Coke	\$m	1	3	0	3	0	0	0	0
Prices e									
Metallurgical coal									
High quality	A\$/t	129.66	318.28	424.27	342.53	203.04	164.98	151.78	160.08
Other quality	A\$/t	97.46	251.46	331.15	288.47	164.57	117.31	109.78	110.25
Thermal coal	A\$/t	72.70	131.16	163.05	144.88	99.19	90.64	80.72	84.10

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 Mines and Energy; ABARE.

10 Copper

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine s									
Copper ore and concentrate	kt	3 222	3 475	844	879	918	850	865	765
Copper content of all minerals produced									
New South Wales a	kt	146	158	39	41	42	40	40	39
Queensland a	kt	392	343	102	68	72	66	61	64
Western Australia a	kt	124	134	29	35	35	34	41	46
South Australia	kt	170	226	48	50	73	66	63	34
Tasmania	kt	30	26	8	5	8	8	7	7
Australia a	kt	863	890	227	198	230	214	212	191
Smelter and refinery									
Blister copper (primary) b	kt	395	459	122	101	115	108	98	70
Refined copper (primary) s	kt	444	499	134	109	122	114	101	71
Exports									
Quantity									
Copper concentrate									
China c	kt	567	637	164	127	213	170	134	166
India	kt	523	489	141	92	109	132	156	159
Japan	kt	339	395	103	77	103	114	108	75
Korea, Rep. of	kt	183	177	54	31	36	22	44	61
Other	kt	81	100	34	31	20	28	55	11
Total	kt	1 694	1 797	496	357	481	467	497	472
Refined copper									
Chinese Taipei	kt	95	58	19	3	12	11	9	6
Indonesia	kt	17	14	5	1	2	2	2	4
Japan	kt	9	4	0	0	0	0	0	0
Singapore	kt	1	14	8	1	0	0	0	0
Thailand	kt	43	25	7	4	6	5	2	1
Other	kt	131	247	65	71	67	59	57	36
Total	kt	296	361	104	80	87	78	71	47
Copper content of all primary materials exported ds	kt	732	815	231	167	212	203	205	177
Value									
Copper concentrate	\$m	4 151	3 618	1 018	660	1 013	967	1 142	1 129
Refined copper	\$m	2 579	2 245	577	430	544	557	503	332
Total	\$m	6 730	5 863	1 595	1 091	1 557	1 524	1 645	1 461
Prices e									
LME cash	US\$/t	7 791	4 936	3 940	3 435	4 675	5 630	6 529	7 020
Australia	A\$/t	8 694	6 439	5 820	5 167	6 137	7 004	7 287	7 998

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

		2007-08	2008-09	quarter					
				2008-09			2009-10 ^p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Diamonds									
Western Australia	'000 ct	16 528	15 166	5 428	4 447	451	2 333	3 558	2 571
Australia	'000 ct	16 528	15 166	5 428	4 447	451	2 333	3 558	2 571
Exports									
Quantity									
Diamonds									
Unsorted ^s	'000 ct	16 266	16 207	5 403	5 417	572	658	2 962	3 847
Sorted									
Gem	'000 ct	261	71	25	12	11	16	13	13
Industrial ^a	'000 ct	0	0	0	0	0	0	0	0
Total ^s	'000 ct	16 528	16 279	5 428	5 428	583	675	2 975	3 860
Value									
Diamonds									
Unsorted ^s	\$m	475	489	141	195	30	21	47	37
Sorted									
Gem	\$m	149	187	49	46	46	39	42	59
Industrial ^a	\$m	0	1	0	0	0	0	0	1
Total ^s	\$m	625	676	190	241	76	59	89	97
Opals									
Rough	\$m	10	7	2	4	0	1	1	3
Cut and polished	\$m	34	29	6	9	7	6	4	9
Total	\$m	45	36	8	13	7	7	5	11
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	6	3	1	1	2	1	1
Total gemstones	\$m	52	43	11	15	8	9	7	13
Imports									
Quantity									
Diamonds									
Unsorted	'000 ct	2	0	0	0	0	0	0	0
Sorted									
Gem	'000 ct	493	325	93	73	69	96	75	79
Industrial ^a	'000 ct	166	6	1	4	0	1	0	1
Dust and powder	'000 ct	2 303	435	120	92	104	111	127	235
Value									
Diamonds									
Unsorted	\$m	0	1	0	1	0	0	0	0
Sorted									
Gem	\$m	440	412	100	97	101	109	113	112
Industrial ^a	\$m	2	3	0	1	0	1	0	1
Dust and powder	\$m	1	1	0	0	0	0	0	0
Total	\$m	444	417	101	99	102	110	114	113

^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.

12 Gold

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine s									
Gold content of all minerals produced									
New South Wales	t	34	28	7	6	6	6	7	7
Victoria	t	5	7	2	2	2	2	2	2
Queensland	t	21	17	5	4	4	4	4	3
Western Australia	t	143	140	34	35	37	37	43	43
South Australia	t	6	8	2	2	2	2	2	2
Tasmania	t	5	5	1	1	1	1	1	1
Northern Territory	t	16	12	3	3	3	2	2	2
Australia	t	230	218	54	53	55	54	60	60
Refinery									
Primary									
Australian origin	t	190	179	45	45	45	47	48	48
Overseas origin	t	58	74	19	21	17	14	19	18
Secondary									
Australian origin	t	5	6	2	1	1	1	1	1
Overseas origin	t	110	127	22	63	12	24	20	10
Total	t	364	386	89	129	76	87	87	77
Exports									
Quantity									
Refined and unrefined bullion									
Hong Kong, China	t	1	2	1	1	0	0	0	1
India	t	141	160	32	28	51	49	51	57
Japan	t	4	0	0	0	0	0	0	0
Korea, Rep. of	t	2	0	0	0	0	0	0	0
Malaysia	t	1	0	0	0	0	0	0	0
Middle East	t	37	38	15	3	1	0	0	0
United Arab Emirates	t	37	38	15	3	1	0	0	0
Singapore	t	2	9	2	1	3	2	1	1
Switzerland	t	28	9	4	1	3	0	0	0
Thailand	t	20	38	11	4	12	6	11	17
United Kingdom	t	140	178	40	87	12	18	17	3
Other	t	7	3	1	0	0	0	1	1
Total	t	382	437	106	124	82	75	81	81
Value									
Refined	\$m	10 903	16 146	3 890	5 388	3 099	2 689	3 028	3 069
Imports									
Value									
Refined and unrefined bullion	\$m	7 311	11 250	3 054	3 898	1 636	1 677	1 984	1 585
Prices									
London AM fix	US\$/oz	823	874	797	908	922	960	1 102	1 110
Australia	A\$/oz	917	1 186	1 185	1 365	1 215	1 152	1 209	1 228

p Preliminary. s ABARE estimate.

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

13 Iron

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Iron ore and concentrate a									
Western Australia	kt	313 505	341 543	77 492	77 503	96 090	103 516	104 601	100 385
South Australia	kt	8 138	6 915	1 732	1 855	1 420	2 059	1 989	2 022
Tasmania s	kt	2 435	2 331	583	572	557	640	515	566
Northern Territory	kt	615	2 207	444	558	777	746	671	476
Australia s	kt	324 693	352 996	80 251	80 487	98 844	106 961	107 776	103 449
Iron content s	kt	198 723	211 719	49 110	49 502	54 483	57 513	66 883	65 166
Iron and steel bs	kt	8 151	5 568	1 681	958	964	1 501	1 712	1 780
Exports									
Quantity									
Iron ore and pellets									
Pellets, sinters and briquettes	kt	1 142	1 422	197	540	300	461	380	518
Fines	kt	205 166	230 566	51 095	55 824	63 723	70 270	69 381	67 767
Lump and run of mine	kt	87 985	91 536	18 044	21 955	24 922	26 862	27 937	25 724
China c	kt	167 574	223 232	39 696	60 617	70 601	67 244	67 962	61 624
Chinese Taipei	kt	10 411	7 663	2 148	1 574	1 402	2 594	2 762	2 640
European Union 27	kt	5 918	3 055	679	151	185	335	0	893
Japan	kt	78 427	61 060	18 468	11 019	10 851	18 866	18 326	19 044
Korea, Rep. of	kt	31 614	28 309	8 343	4 805	5 906	8 555	8 603	9 659
Other	kt	350	204	0	153	0	0	45	149
Total iron ore and pellets	kt	294 293	323 524	69 336	78 319	88 945	97 594	97 698	94 009
Iron content	kt	183 107	201 096	43 028	48 685	55 271	60 635	60 736	58 405
Steel									
Iron and steel s	kt	2 131	1 741	397	413	488	280	337	430
Scrap	kt	1 783	1 742	358	456	597	411	415	335
Value									
Iron ore and pellets									
Pellets, sinters and briquettes	\$m	79	160	26	86	24	39	28	30
Fines	\$m	13 247	22 727	5 884	6 026	4 900	4 916	4 643	4 937
Lump and run of mine	\$m	7 184	11 352	2 804	2 773	2 129	2 225	2 185	2 066
Total	\$m	20 511	34 239	8 714	8 884	7 052	7 181	6 856	7 034
Steel									
Iron and steel s	\$m	1 562	1 363	418	218	207	201	225	285
Scrap	\$m	833	748	169	210	198	144	139	134
Total	\$m	2 396	2 111	587	428	405	345	364	419
Imports									
Quantity									
Iron ore d	kt	4 401	3 599	1 561	550	358	1 268	1 674	1 008
Iron and steel	kt	1 848	2 082	675	364	231	349	424	488
Ferroalloys	kt	97	54	19	9	6	12	15	18
Value									
Iron ore d	\$m	311	269	141	53	10	56	76	56
Iron and steel	\$m	2 225	3 191	1 185	635	345	379	463	512
Ferroalloys	\$m	154	181	78	29	16	21	27	37
Total	\$m	2 690	3 641	1 405	718	372	456	566	604
Prices									
Japanese negotiated e	USc/dmtu	80.43	144.67	144.67	144.67	97.00	97.00	97.00	97.00

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

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine s									
Lead ore and concentrates	kt	888	842	243	172	209	211	202	204
Lead content of all minerals produced									
New South Wales	kt	75	73	13	20	21	18	21	18
Queensland	kt	469	439	128	84	108	110	105	110
Western Australia	kt	30	12	7	2	0	1	1	1
South Australia	kt	0	6	1	1	2	2	3	3
Tasmania	kt	32	31	7	7	8	8	6	7
Northern Territory	kt	35	35	10	6	10	10	11	7
Australia	kt	641	596	166	119	150	150	147	146
Smelter and refinery									
Refined lead (primary) a	kt	203	213	56	45	55	53	51	52
Domestic despatches									
Refined lead	kt	25	21	5	4	6	5	4	6
Exports									
Quantity									
Lead concentrate									
China	kt	72	145	29	16	63	40	71	30
European Union 27	kt	34	43	10	10	0	11	11	27
Japan	kt	74	49	11	5	22	16	27	5
Korea, Rep. of	kt	103	91	33	26	22	43	27	27
Other	kt	25	52	11	4	11	0	2	3
Total	kt	308	381	93	62	117	110	138	92
Lead bullion b									
United Kingdom	kt	169	147	45	29	47	25	42	34
Total	kt	169	147	45	29	47	25	42	34
Refined lead									
Chinese Taipei	kt	5	14	3	3	6	5	3	0
India	kt	26	47	10	11	17	13	9	9
Indonesia	kt	7	15	4	6	2	4	3	1
Korea, Rep. of	kt	40	35	10	7	11	14	16	12
Thailand	kt	17	14	5	0	3	3	5	2
Other	kt	100	136	25	34	32	21	18	13
Total	kt	193	261	57	62	70	60	55	36
Lead content of all primary materials exported cs									
	kt	588	645	163	126	182	154	185	134
Value									
Lead concentrate	\$m	757	645	165	146	189	240	229	201
Lead bullion	\$m	595	432	143	79	116	66	105	109
Refined lead	\$m	674	560	155	111	119	122	129	93
Total	\$m	2 027	1 637	463	336	424	429	463	403
Prices									
LME cash d	US\$/t	2 893	1 454	1 247	1 157	1 500	1 927	2 293	2 133
Australia e	A\$/t	3 639	2 269	2 480	2 017	2 258	2 441	2 787	2 778

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

		2007-08	2008-09	quarter						
				2008-09			2009-10 p			
				Dec	Mar	June	Sept	Dec	Mar	
Production										
Manganese ore and concentrate										
Western Australia	s	kt	1 238	862	76	210	433	510	323	538
Northern Territory		kt	4 174	2 869	800	476	508	933	1 057	1 104
Australia	s	kt	5 412	3 730	876	686	941	1 443	1 381	1 641
Manganese content	s	kt	2 774	1 917	377	382	609	844	712	936
Exports a										
Quantity										
Manganese ore and concentrate		kt	5 105	3 226	283	706	1 106	1 422	1 421	1 466
Value										
Manganese ore and concentrate		\$m	1 532	1 406	243	250	195	237	317	391
Prices										
Japanese negotiated	b	US\$/mtu	2.70	11.20	11.20	11.20	9.00	9.00	9.00	9.00
		A\$/t	144.66	718.95	797.55	807.50	567.69	518.69	473.96	477.33

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

		2007-08	2008-09	quarter					
				2008-09			2009-10 ^p		
				Dec	Mar	June	Sept	Dec	Mar
Production as									
Mine									
Nickel content									
Western Australia	kt	190	182	48	45	38	40	41	38
Tasmania	kt	0	3	1	1	0	0	0	0
Australia	kt	190	185	49	46	38	40	41	38
Smelter and refinery									
Intermediate nickel	kt	45	21	11	6	4	5	12	11
Refined nickel, class 1 ^b	kt	105	95	23	28	31	30	34	27
Refined nickel, class 2 ^c	kt	15	15	5	3	3	1	1	2
Exports ^s									
Quantity									
Nickel ^d	kt	211	194	58	53	50	49	63	53
Value									
Ores and concentrates	\$m	1 088	795	284	153	118	138	174	198
Intermediate products ^e	\$m	896	206	99	55	51	96	196	157
Refined nickel, class 1 ^b	\$m	3 249	1 499	322	424	500	604	588	595
Refined nickel, class 2 ^c	\$m	421	205	63	48	35	24	20	26
Total	\$m	5 655	2 705	769	681	704	862	979	976
Imports									
Value									
Primary nickel products ^f	\$m	262	144	54	17	21	44	50	27
Prices									
LME cash ^g	US\$/t	28 564	13 322	10 889	10 475	12 943	17 607	17 543	20 039
	A\$/t	32 008	17 568	16 119	15 710	16 933	21 136	19 223	22 160

^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

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Field									
Crude oil	ML	18 832	20 107	5 491	4 955	4 369	4 589	4 367	4 164
Condensate	ML	6 957	7 680	2 000	1 896	2 108	2 292	2 330	2 158
Total	ML	25 789	27 787	7 491	6 851	6 477	6 882	6 696	6 322
Production rate	'000 bbl/day	451	485	524	479	453	481	468	442
LPG	ML	3 971	3 929	934	870	1 069	1 104	1 010	957
Ethane	Mm ³	454	395	91	75	111	118	103	99
Natural gas a	Mm ³	39 283	40 109	10 054	9 658	10 766	11 050	10 871	10 629
Refinery									
Refinery input	ML	38 346	38 808	10 003	9 615	9 792	9 738	9 541	9 228
Refinery output									
LPG	ML	1 515	1 477	428	266	271	272	280	333
Automotive gasoline	ML	17 079	17 159	4 238	4 300	4 372	4 258	4 204	4 062
Aviation gasoline	ML	119	105	18	31	27	25	22	29
Aviation turbine fuel	ML	5 182	5 494	1 405	1 367	1 341	1 321	1 415	1 355
Kerosine	ML	1	2	0	1	1	0	0	0
Heating oil	ML	102	69	9	16	16	24	- 0	6
Automotive diesel oil	ML	12 177	12 231	3 180	2 975	3 094	2 914	2 969	3 050
Industrial and marine diesel fuel	ML	3	13	3	4	3	3	0	- 0
Fuel oil (excl. refinery fuel)	ML	979	872	233	239	196	203	212	223
Lubricating oil basestock	ML	121	114	36	34	22	27	18	15
Bitumen	ML	1 452	1 294	335	317	326	296	150	132
Other products	ML	844	716	247	70	180	190	87	66
Total	ML	39 575	39 546	10 131	9 620	9 850	9 531	9 357	9 273
Sales									
LPG									
Automotive use b	ML	2 238	2 253	580	548	543	539	539	494
Total	ML	4 024	3 996	1 004	924	989	1 003	947	864
Automotive gasoline									
Premium unleaded	ML	1 780	1 728	449	448	423	437	471	466
Regular unleaded	ML	15 212	13 802	3 568	3 416	3 256	3 355	3 324	3 114
Other unleaded	ML	2 242	3 204	825	820	862	927	1 020	1 011
Total	ML	19 234	18 734	4 843	4 684	4 541	4 720	4 815	4 591
Aviation gasoline	ML	88	96	28	19	22	22	20	17
Aviation turbine fuel	ML	6 070	6 173	1 576	1 462	1 557	1 609	1 649	1 661
Kerosine	ML	43	25	4	6	8	7	15	3
Heating oil	ML	12	7	1	1	3	2	2	2
Automotive diesel oil	ML	18 245	18 587	4 811	4 316	4 718	4 679	4 973	4 483
Industrial and marine diesel fuel	ML	11	16	3	3	6	7	6	9
Fuel oil	ML	1 583	1 423	392	357	314	330	238	243
Lubricating oil and greases	ML	435	437	107	101	113	119	117	109
Bitumen	ML	785	809	221	221	208	184	236	207
Other products	ML	258	311	93	71	74	106	105	83
Total	ML	50 788	50 614	13 082	12 166	12 552	12 787	13 124	12 273

continued

17 Petroleum

continued

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Exports									
Quantity									
Crude oil and other refinery feedstock									
China	ML	972	1 009	371	177	460	373	675	287
Chinese Taipei	ML	343	403	191	87	16	14	117	14
Japan	ML	2 280	2 485	606	682	527	370	625	425
Korea, Rep. of	ML	3 701	4 395	998	1 370	1 034	822	980	540
New Zealand	ML	600	321	3	70	105	66	58	110
Singapore	ML	3 089	3 543	1 095	897	824	1 344	863	811
United States	ML	1 157	1 421	760	148	0	145	174	94
Other	ML	3 833	3 011	781	533	798	989	1 107	1 506
Total	ML	15 975	16 588	4 804	3 964	3 765	4 123	4 599	3 788
LNG s	Mt	13.68	15.41	3.95	4.15	4.04	4.40	4.33	4.33
LPG	ML	2 589	2 500	596	622	621	846	761	638
Refinery products									
Automotive gasoline	ML	628	244	25	46	90	46	82	62
Aviation turbine fuel	ML	149	106	16	29	34	15	30	19
Diesel fuel c	ML	462	357	144	137	71	43	10	54
Fuel oil	ML	257	188	76	48	20	44	11	1
Aviation gasoline	ML	96	56	11	33	7	5	9	10
Lubricants	ML	178	183	8	43	69	54	64	26
Other products	ML	35	29	9	7	5	3	4	9
Total	ML	1 807	1 164	288	343	296	211	212	180
Ships' and aircraft stores									
Aviation turbine fuel	ML	1 893	1 909	473	473	489	496	496	496
Fuel oil	ML	251	275	70	72	69	65	65	65
Other products	ML	24	33	14	7	7	15	11	8
Total	ML	2 169	2 217	557	552	565	576	572	569
Value									
Crude oil and other refinery feedstock									
	\$m	10 484	8 757	2 220	1 620	1 667	2 089	2 347	1 999
LNG	\$m	5 854	10 079	3 815	2 483	1 591	1 713	1 840	2 221
LPG	\$m	1 182	1 044	290	215	198	292	297	286
Refinery products									
Automotive gasoline	\$m	444	171	13	29	58	28	45	41
Aviation turbine fuel	\$m	120	69	9	15	19	9	15	12
Diesel fuel c	\$m	363	225	99	76	44	27	11	34
Fuel oil	\$m	130	96	34	19	12	24	5	1
Aviation gasoline	\$m	73	45	11	22	6	5	8	10
Lubricants	\$m	152	148	27	34	42	40	41	35
Other products	\$m	41	34	1	10	7	4	4	7
Total	\$m	1 323	788	194	205	188	136	130	139
Total	\$m	18 843	20 667	6 519	4 524	3 644	4 231	4 614	4 645
Ships' and aircraft stores									
Aviation turbine fuel	\$m	1 325	1 355	382	305	235	263	271	293
Fuel oil	\$m	107	142	37	47	31	32	33	37
Other products	\$m	25	39	18	6	7	16	11	7
Total	\$m	1 457	1 537	437	358	273	311	315	337

continued

17 Petroleum

continued

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Imports									
Quantity									
Crude oil and other refinery feedstock									
Indonesia	ML	3 289	3 666	855	861	1 241	1 123	1 147	951
Malaysia	ML	4 103	4 461	1 343	1 228	864	675	1 220	1 572
Middle East									
Saudi Arabia	ML	573	775	206	243	230	169	122	146
United Arab Emirates	ML	3 660	2 918	477	572	1 091	1 201	966	734
Other	ML	43	40	40	0	0	43	0	0
Total Middle East	ML	4 276	3 734	723	814	1 321	1 413	1 088	880
New Zealand	ML	1 974	2 313	659	453	564	520	671	560
Papua New Guinea	ML	2 190	1 349	371	319	334	390	600	369
Singapore	ML	713	555	179	111	101	169	167	143
Viet Nam	ML	6 318	5 277	1 234	1 144	1 417	957	807	1 009
Other	ML	3 360	2 947	736	640	492	1 251	965	1 372
Total	ML	26 223	24 302	6 100	5 571	6 334	6 499	6 665	6 857
Natural gas	kt	4 032	4 752	1 126	1 191	1 141	1 282	1 069	1 025
Refined products									
LPG	ML	965	1 002	301	172	346	321	280	261
Automotive gasoline	ML	3 533	4 087	1 320	1 467	734	1 094	1 223	849
Aviation turbine fuel	ML	1 846	2 026	457	526	579	595	570	433
Diesel fuel c	ML	7 470	8 246	2 339	1 661	2 138	2 118	2 407	1 926
Fuel oil	ML	1 625	1 682	409	444	354	400	454	431
Lubricants	ML	396	369	92	94	78	91	113	101
Other products	ML	2 147	2 285	545	576	552	534	531	505
Total	ML	17 982	19 697	5 464	4 940	4 780	5 154	5 577	4 508
Value									
Crude oil and other refinery feedstock									
	\$m	17 149	14 727	3 824	2 380	2 975	3 573	3 642	3 697
Natural gas	\$m	724	2 166	523	850	377	326	330	286
Refined products									
LPG	\$m	436	382	122	60	108	102	108	110
Automotive gasoline	\$m	2 719	2 784	969	861	438	688	720	562
Aviation turbine fuel	\$m	1 505	1 393	330	275	316	350	324	256
Diesel fuel c	\$m	6 155	6 314	1 957	961	1 213	1 259	1 389	1 179
Fuel oil	\$m	831	867	197	177	161	199	226	219
Lubricants	\$m	477	629	201	146	113	116	137	127
Other products	\$m	1 331	2 927	755	1 033	532	433	453	408
Total	\$m	12 730	13 129	4 009	2 662	2 503	2 821	3 027	2 577
Total	\$m	30 603	30 021	8 355	5 893	5 855	6 720	6 999	6 561
Prices									
Dubai	US\$/bbl	90.19	63.88	52.00	39.19	55.81	63.57	76.37	75.91
West Texas intermediate	US\$/bbl	96.73	68.83	58.80	41.70	60.31	68.60	76.09	78.84
Brent	US\$/bbl	95.37	67.18	54.50	41.20	58.52	66.85	75.01	76.72
Tapis	US\$/bbl	100.84	74.38	60.79	48.09	61.33	71.89	77.46	79.51
World trade weighted average	US\$/bbl	91.97	66.05	56.50	40.25	57.34	65.72	73.06	75.71
	A\$/bbl	102.66	88.33	83.82	60.46	75.35	78.91	80.16	83.65

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

Table 18 habitually contains production statistics for crude oil, condensate, LPG, ethane and natural gas by basin on a quarterly and annual basis. Data for this table is sourced from the Australian Petroleum Statistics, which is produced by the Department of Resources, Energy and Tourism.

The Department of Resources, Energy and Tourism and ABARE are currently conducting a review of the Australian Petroleum Statistics. The purpose of the review is to identify ways of improving the quality of Australia's petroleum data and the management of petroleum data collection.

It is intended that table 18 will be updated in the next Australian Mineral Statistics publication, to be released in September 2010.

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 2010 ^p								
LPG ^b								
Automotive use ^c	146	207	45	39	52	3	2	494
Total	284	272	135	68	83	16	6	864
Automotive gasoline								
Premium unleaded	160	92	108	61	25	16	5	466
Regular unleaded	843	869	622	393	272	89	27	3 114
Other unleaded ^d	500	142	301	37	27	3	0	1 011
Total	1 503	1 103	1 031	491	324	107	32	4 591
of which sales to retailers	1 246	892	787	437	244	50	19	3 675
Aviation gasoline	4	3	4	3	1	1	2	17
Aviation turbine fuel	754	281	353	185	50	5	33	1 661
Kerosine	0	1	2	0	0	0	0	3
Heating oil	0	0	0	0	0	2	0	2
Automotive diesel oil	987	762	1 161	1 014	321	100	139	4 483
of which sales to retailers	381	311	313	194	77	9	15	1 299
Industrial and marine diesel fuel	7	0	1	0	0	0	0	9
Fuel oil ^e	93	82	18	51	0	0	0	243
Lubricating oil and greases	35	25	24	15	7	1	2	109
Bitumen	45	55	58	21	21	6	0	207
Other products ^f	63	9	5	4	1	0	0	83
Total	3 776	2 592	2 792	1 852	809	239	214	12 273
2008-09								
LPG ^b								
Automotive use ^c	697	902	208	192	235	13	7	2 253
Total	1 202	1 410	584	324	382	66	28	3 996
Automotive gasoline								
Premium unleaded	524	371	405	244	106	58	21	1 728
Regular unleaded	3 980	3 684	2 850	1 670	1 117	370	131	13 802
Other unleaded ^d	1 491	449	1 038	133	83	9	0	3 204
Total	5 996	4 503	4 293	2 048	1 305	436	152	18 734
of which sales to retailers	4 918	3 531	3 112	1 748	985	198	81	14 572
Aviation gasoline	19	13	28	19	7	2	9	96
Aviation turbine fuel	2 660	1 074	1 324	722	205	37	150	6 173
Kerosine	3	4	14	1	0	1	2	25
Heating oil	3	1	0	0	1	2	0	7
Automotive diesel oil	3 895	2 913	5 254	4 206	1 247	378	694	18 587
of which sales to retailers	1 340	1 119	1 235	801	292	31	69	4 888
Industrial and marine diesel fuel	13	2	1	0	0	0	0	16
Fuel oil ^e	339	383	52	177	0	0	472	1 423
Lubricating oil and greases	137	88	107	59	33	7	7	437
Bitumen	183	146	309	84	65	17	5	809
Other products ^f	228	33	22	15	10	0	2	311
Total	14 677	10 572	11 989	7 655	3 255	946	1 520	50 614

^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

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Single superphosphate as	kt	1 413	na	378	na	na	na	na	na
Imports									
Quantity									
Phosphate rock									
China	kt	55	15	1	0	0	0	0	0
Morocco	kt	438	284	129	0	27	0	73	0
Nauru	kt	112	86	27	0	0	0	0	0
Other	kt	101	154	31	0	0	0	0	11
Total	kt	707	540	189	1	28	0	73	11
Phosphates									
Diammonium b	kt	313	214	7	64	119	2	0	96
Monammonium c	kt	583	455	72	175	179	36	30	201
High analysis d	kt	107	107	21	43	21	0	14	50
Value									
Phosphate rock	\$m	80	193	95	0	6	0	8	1
Phosphates									
Diammonium b	\$m	261	140	7	36	66	1	0	51
Monammonium c	\$m	454	337	93	107	97	16	11	90
High analysis d	\$m	63	72	19	20	10	0	3	14
Prices									
Australia e	A\$/t	104.44	384.89	502.45	546.10	206.63	475.89	115.14	116.65

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. **na** Not available

Sources: Australian Bureau of Statistics, Canberra; ABARE.

21 Salt

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Production s									
Australia a	kt	11 243	11 202	2 790	2 804	2 818	2 832	2 846	2 860
Exports s									
Quantity									
Bulk, bagged and table	kt	10 686	10 978	2 734	2 748	2 762	2 775	2 789	2 803
Value									
Bulk, bagged and table	\$m	232	237	59	59	60	61	61	62
Prices s									
Australia b	A\$/t	21.67	21.60	21.50	21.63	21.76	21.89	22.02	22.15

a Combination of sales and production data, excludes Victoria. **b** Average export unit value. **p** Preliminary. **s** ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

22 Silver

		2007-08	2008-09	quarter					
				2008-09			2009-10 ^p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine s									
Silver content of all minerals produced									
New South Wales	t	77	67	14	17	17	20	21	19
Queensland	t	1 504	1 467	458	278	360	327	378	402
Western Australia	t	114	73	35	15	3	12	13	8
South Australia	t	29	30	7	8	7	7	8	1
Tasmania	t	106	99	22	25	29	23	20	17
Northern Territory	t	38	40	11	6	12	12	14	10
Australia	t	1 867	1 775	546	349	429	402	453	458
Refinery									
Refined silver	t	605	751	188	186	195	189	192	163
Exports									
Quantity									
Refined silver bullion	t	335	423	113	109	120	105	122	104
Value									
Refined silver ^a	\$m	187	245	73	58	66	56	72	66
Imports									
Value									
Refined silver bullion	\$m	80	223	81	98	12	18	51	32
Prices									
World ^b	US\$/oz	1 544	1 289	1 019	1 260	1 376	1 469	1 757	1 693
Australia ^c	A\$/kg	551	553	485	608	579	564	603	602

^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

		2007-08	2008-09	quarter					
				2008-09			2009-10 ^p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine									
Tin content of all minerals produced									
Queensland ^s	t	1 631	0	0	0	0	0	0	
Tasmania	t	0	3 879	887	1 439	1 361	1 404	1 426	
Australia ^s	t	1 631	3 879	887	1 439	1 361	1 404	1 426	
Exports									
Quantity									
Tin concentrate	t	6 527	9 607	2 815	3 241	3 029	3 476	2 680	
Refined tin	t	185	85	0	80	4	4	6	
Tin content of primary materials exported ^{as}									
	t	3 079	4 159	893	1 651	1 483	1 700	1 252	
Value									
Tin concentrate	\$m	39	69	18	25	24	26	21	
Refined tin	\$m	3	1	0	0	0	0	0	
Total	\$m	42	70	18	26	24	26	21	
Imports									
Quantity									
Refined tin	t	603	529	107	122	130	165	204	
Value									
Refined tin	\$m	12	11	3	2	2	3	3	
Prices									
LME ^b	US\$/t	18 529	13 576	13 131	11 024	13 540	14 576	15 164	

^a Tin content of tin ores and concentrates and refined tin. ^b LME official close. ^p Preliminary. ^s ABARE estimate.

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

24 Titanium minerals

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Production s									
Ilmenite concentrate									
New South Wales	kt	197	260	55	75	75	75	75	75
Queensland	kt	222	108	35	8	6	5	5	5
Victoria	kt	0	7	0	6	1	3	3	20
South Australia	kt	8	18	4	5	5	5	10	10
Western Australia	kt	1 779	1 476	408	313	352	267	239	217
Northern Territory	kt	3	1	0	0	0	0	0	0
Australia	kt	2 208	1 869	502	408	439	355	332	327
Leucoxene concentrate									
New South Wales	kt	86	66	10	23	23	23	23	23
Victoria	kt	5	6	1	2	1	1	3	2
South Australia	kt	0	4	0	2	2	2	2	2
Western Australia	kt	64	57	14	16	15	14	14	14
Northern Territory	kt	2	1	0	0	0	0	0	0
Australia	kt	157	134	25	43	41	40	42	41
Rutile concentrate									
New South Wales	kt	63	80	20	20	20	20	20	20
Victoria	kt	72	63	16	18	14	15	19	27
Queensland	kt	85	54	16	14	5	5	5	10
South Australia	kt	1	4	1	2	2	2	2	3
Western Australia	kt	105	98	24	24	25	22	27	10
Australia	kt	327	300	78	78	66	63	73	70
Synthetic rutile	kt	672	726	190	190	153	135	138	151
Titanium dioxide pigment	kt	201	221	55	57	60	63	68	68
Exports									
Quantity									
Ilmenite concentrate a	kt	894	1 538	317	389	567	396	426	541
Leucoxene concentrate	kt	56	20	6	2	3	4	4	4
Rutile concentrate s	kt	399	550	116	148	177	122	140	147
Synthetic rutile s	kt	513	512	128	127	128	130	130	119
Titanium dioxide pigment	kt	175	141	29	26	55	52	46	41
Value									
Ilmenite concentrate a	\$m	104	171	37	42	61	44	48	61
Leucoxene concentrate	\$m	15	12	5	1	2	3	3	3
Rutile concentrate s	\$m	277	335	64	98	105	82	84	100
Synthetic rutile s	\$m	305	258	59	68	62	70	62	64
Titanium dioxide pigment	\$m	375	396	95	85	144	128	109	101
Prices b									
Ilmenite concentrate									
Bulk	A\$/t	116 s	111 s	116	108	108	110	112	112
Leucoxene concentrate									
Bulk	A\$/t	166	na	na	na	na	na	na	na
Bagged	A\$/t	631	598	784	625	602	624	na	na
Rutile concentrate									
Bagged	A\$/t	730	1 025	784	625	602	624	627	625
Titanium dioxide pigment	A\$/t	2 138	2 810	3 259	3 224	2 635	2 447	2 368	2 472

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

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine									
Uranium oxide (U ₃ O ₈)	t	10 114	10 311	2 652	2 252	2 790	2 685	1 638	1 142
Uranium (U content)									
South Australia	t	4 105	3 929	863	880	1 110	1 085	422	203
Northern Territory	t	4 472	4 815	1 386	1 029	1 256	1 191	967	766
Australia	t	8 577	8 744	2 249	1 910	2 366	2 277	1 389	968
Exports a									
Quantity									
Uranium oxide (U ₃ O ₈)	t	10 139	10 114	2 526	2 172	2 844	2 685 s	1 638 s	1 142 s
Value									
Uranium oxide (U ₃ O ₈)	\$m	887	990	246	293	304	291 s	182 s	131 s
Prices									
Uranium oxide (U ₃ O ₈)									
Industry spot b	US\$/lb	80.75	51.25	51.00	45.00	48.33	45.25	46.50	42.08
Australia c	A\$/kg	87.45	97.92	97.21	134.93	106.94	108.21 s	111.26 s	114.74 s

a ABS confidentiality: no country details to July 2009 and no details from August 2009. b Average of weekly restricted spot price, published by The Ux Consulting Company. c Average export unit value. p Preliminary. s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; The Ux Consulting Company; ABARE.

26 Zircon

		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	June	Sept	Dec	Mar
Production s									
Zircon concentrate									
New South Wales	kt	48	59	13	14	20	22	22	22
Victoria	kt	141	92	25	27	14	15	15	24
Queensland	kt	66	39	12	11	3	11	10	12
South Australia		4	30	3	13	13	13	13	13
Western Australia	kt	287	290	74	79	66	52	45	51
Northern Territory	kt	16	3	0	0	0	0	0	0
Australia	kt	562	513	125	144	116	112	104	121
Exports s									
Quantity									
Zircon concentrate	kt	637	685	167	174	177	193	200	184
Value									
Zircon concentrate	\$m	421	540	137	134	142	118	97	74
Prices a									
Zircon concentrate									
All grades – bagged	A\$/t	943	1 174	1 274	1 419	1 283	1 207	1 046	997

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

Sources: Australian Bureau of Statistics, Canberra; ABARE.

27 Zinc

		2007-08	2008-09	quarter					
				2008-09			2009-10 ^p		
				Dec	Mar	June	Sept	Dec	Mar
Production									
Mine s									
Zinc ore and concentrates	kt	3 034	2 643	742	543	662	704	534	625
Zinc content of all minerals produced									
New South Wales	kt	140	122	27	27	29	25	27	24
Queensland	kt	897	897	237	188	244	239	143	230
Western Australia	kt	205	142	68	29	10	27	24	10
South Australia	kt	94	17	3	2	5	6	7	6
Tasmania	kt	102	87	19	21	23	24	21	20
Northern Territory	kt	134	145	39	23	46	47	51	46
Australia	kt	1 571	1 411	393	291	357	369	273	336
Smelter and refinery									
Refined zinc (primary)	kt	507	506	126	126	132	137	130	118
Domestic despatches									
Refined zinc	kt	85	71	18	14	16	18	19	17
Exports									
Quantity									
Zinc concentrates									
Belgium–Luxembourg	kt	93	32	19	0	0	13	13	0
China	kt	823	945	175	202	305	307	417	170
Japan	kt	311	273	103	38	62	84	94	43
Korea, Rep. of	kt	345	291	78	47	64	52	99	95
Netherlands	kt	351	231	67	22	62	45	0	72
Spain	kt	161	146	48	17	25	0	0	31
Other	kt	239	184	42	49	47	34	20	33
Total	kt	2 323	2 101	533	376	564	535	643	444
Refined zinc									
Chinese Taipei	kt	83	59	17	5	16	21	21	21
Hong Kong, China	kt	82	57	11	12	16	16	17	12
Indonesia	kt	15	10	2	2	3	3	5	6
Malaysia	kt	26	71	24	19	6	7	5	7
New Zealand	kt	12	9	3	2	2	3	3	1
United States	kt	0	0	0	0	0	0	0	21
Other	kt	192	244	37	64	95	58	57	35
Total	kt	411	451	93	104	138	107	107	102
Zinc content of all primary materials exported ^{as}	kt	1 507	1 471	356	291	399	349	385	318
Value									
Zinc concentrates	\$m	2 031	935	242	170	215	226	308	274
Refined zinc	\$m	1 319	923	225	193	245	209	237	259
Total	\$m	3 350	1 858	467	363	460	435	545	533
Prices									
LME cash ^b	US\$/t	2 599	1 401	1 186	1 174	1 473	1 530	2 203	2 290
Australia ^c	A\$/t	3 341	2 136	2 192	1 999	2 177	2 258	2 499	2 741

^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.