



Australian Government

Australian Bureau of Agricultural and
Resource Economics – Bureau of Rural Sciences

Australian mineral statistics 2010

June quarter 2010



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Science and economics for decision-makers

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On 1 July 2010, the Australian Bureau of Agricultural and Resource Economics (ABARE) and the Bureau of Rural Sciences (BRS) merged to form ABARE–BRS.

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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–BRS 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–BRS estimates where necessary.
- Price information is from published sources.

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

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–BRS 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 Australian energy and mineral resource export prices fell by 22 per cent in 2009–10. This reflects lower contract prices for bulk commodities in the first nine months of the financial year, and an 18 per cent appreciation of the Australian dollar against the US dollar.
- Export volumes were higher for around two-thirds of the commodities covered, including for manganese, iron ore, metallurgical coal, liquefied natural gas (LNG), bauxite, alumina, nickel and zinc.
- In 2009–10, Australia's export earnings from energy and mineral commodities declined by 14 per cent to \$137.2 billion.
- In the June quarter 2010, export earnings from Australia's energy and mineral commodities increased by 41 per cent compared with the previous quarter, to \$44 billion. This primarily reflected higher earnings for bulk commodities and crude oil.
- Australian production of energy and mineral commodities increased in 2009–10, with the index of mine production increasing by 2 per cent. Higher production was recorded for key commodities including refined nickel, iron and steel, iron ore, mined gold, black coal and bauxite.

Prices

In 2009–10, the index of export prices for Australia's energy and mineral resources (export unit returns) decreased by 22 per cent compared with 2008–09. Export unit returns for energy commodities decreased by 35 per cent, in line with lower contract prices for thermal coal and metallurgical coal in the first nine months of the financial year. The index of metals and other minerals prices decreased by 8 per cent, reflecting lower export prices for iron ore and most other metallic commodities.

In the June quarter 2010, the index of export prices for energy and mineral resources increased by 23 per cent compared with the March quarter. Prices for energy commodities increased by 20 per cent, primarily reflecting higher export prices for metallurgical coal (38 per cent) and thermal coal (14 per cent). Export prices for metals and other minerals increased by 26 per cent, being underpinned by higher export prices for iron ore (53 per cent) and gold (5 per cent).

Exports

In the June quarter 2010, Australia's export earnings from energy and mineral commodities increased by 41 per cent compared with the previous quarter, to \$44 billion. This was the second highest export earnings for a quarter, 7 per cent below the record earnings in the December quarter 2008 (\$47 billion). Export earnings in the June quarter were underpinned by higher export earnings for: metallurgical coal, up \$3.5 billion (70 per cent) to \$8.5 billion; iron ore, up \$4.8 billion (61 per cent) to \$12.6 billion; crude oil and other refinery feedstock, up \$1 billion (52 per cent) to \$3.1 billion; and thermal coal, up \$652 million (25 per cent) to \$3.3 billion. Higher export earnings reflected both higher export volumes and higher export unit values.

Australian energy and mineral exports

Percentage change 2008–09 to 2009–10

	export volume	export value	prices
Crude oil ^a	▲ +8%	▲ +9%	▲ +9%
LNG	▲ +16%	▼ -23%	▼ -33%
LPG	▲ +11%	▲ +6%	▼ -4%
Metallurgical coal	▲ +26%	▼ -33%	▼ -47%
Refinery products	▼ -31%	▼ -28%	▲ +3%
Thermal coal	▼ -1%	▼ -34%	▼ -33%
Uranium oxide (U ₃ O ₈)	▼ -29%	▼ -24%	▲ +7%
Alumina	▲ +2%	▼ -17%	▼ -19%
Aluminium (ingot metal) ^a	▼ -7%	▼ -19%	▲ +13%
Bauxite	▲ +7%	▼ -7%	▼ -14%
Copper ^a	▼ -1%	▲ +11%	▲ +33%
Diamonds	▼ -36%	▼ -49%	▼ -20%
Gold ^a	▼ -22%	▼ -20%	▲ +25%
Iron and steel	▼ -11%	▼ -19%	▼ -9%
Iron ore and pellets	▲ +20%	▲ +1%	▼ -16%
Lead ^a	▲ +2%	▲ +11%	▲ +44%
Manganese ore and concentrate	▲ +75%	▼ -1%	▼ -43%
Nickel ^a	▲ +7%	▲ +32%	▲ +46%
Silver ^a	▼ -1%	▲ +4%	▲ +31%
Tin ^a	▲ +45%	▲ +44%	▲ +11%
Titanium and zircon	▲ +10%	▼ -2%	▼ -11%
Zinc ^a	▲ +1%	▲ +19%	▲ +43%

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

Total earnings from Australia's energy and mineral resource exports decreased by 14 per cent to \$137.2 billion in 2009–10. Lower export earnings primarily reflected lower contract prices for bulk commodities in the first nine months of 2009–10 as well as an 18 per cent appreciation of the Australian dollar against the US dollar. This was partly offset by higher prices for a range of commodities in 2009–10.

Commodities that recorded significant declines in export earnings in 2009–10 included: thermal coal, down \$6 billion (34 per cent) to \$11.9 billion; metallurgical coal, down \$12.3 billion (33 per cent) to \$24.5 billion; petroleum refinery products, down \$224 million (28 per cent) to \$564 million; uranium oxide (U₃O₈), down \$239 million (24 per cent) to \$751 million; liquefied natural gas (LNG), down \$2.3 billion (23 per cent) to \$7.8 billion; refined gold, down \$3.2 billion (20 per cent) to \$13 billion; iron and steel, down \$256 million (19 per cent) to \$1.1 billion; aluminium, down \$876 million (19 per cent) to \$3.8 billion; and alumina, down \$1 billion (17 per cent) to \$5 billion.

The appreciation of the Australian dollar against the US dollar had a negative effect on Australian prices, and therefore export earnings, for all energy and mineral commodities, because they are denominated in US dollars. Lower export values for iron and steel, and uranium oxide reflected both lower export volumes and Australian prices. Export values for metallurgical coal, thermal coal, liquefied natural gas and alumina reflected lower Australian prices, which more than offset higher export volumes. Export earnings for petroleum refinery products, refined gold and aluminium fell as lower export volumes outweighed the effect of higher average Australian prices.

Notwithstanding the decline in export earnings for several key commodities, there were significant increases in export earnings for a range of commodities. These included tin, up \$31 million (44 per cent) to \$101 million; nickel, up \$876 million (32 per cent) to \$3.6 billion; zinc, up \$360 million (19 per cent) to \$2.2 billion; titanium, up \$135 million (12 per cent) to \$1.3 billion; lead, up \$175 million (11 per cent) to \$1.8 billion; copper up \$628 million (11 per cent) to \$6.5 billion and crude oil and other refinery feedstock, up \$758 million (9 per cent) to \$9.5 billion. Higher export earnings for these commodities reflected both increased volumes shipped and higher export prices. Copper was the exception to this, as a fall in copper export volumes was offset by an increase in prices.

Production

Australian production of energy and mineral commodities was higher in 2009–10, with the index of mine production increasing by 2 per cent. Production of energy commodities, and metals and other minerals were higher in the year, increasing by 2 per cent and 3 per cent, respectively.

Increased production was observed for tin (390 per cent); manganese (56 per cent); iron and steel (24 per cent); iron ore and concentrate (20 per cent); refined nickel class 1 (14 per cent); mined gold (10 per cent); and black coal (7 per cent).

In 2009–10, tin production was higher compared with 2008–09, as Talison's Greenbushes operation resumed tin production in the second half of 2009. Manganese production

increased in 2009–10, reflecting higher production from the Woodie Woodie, Groote Eylandt and Bootu Creek mines, all of which were negatively affected by weak demand in 2008–09. Higher production from BlueScope's Port Kembla blast furnace and from OneSteel's Laverton, Sydney and Waratah electric arc furnaces underpinned higher production of iron and steel. Production of iron ore increased in 2009–10, reflecting higher output from major producers in the Pilbara region of Western Australia, including Rio Tinto, BHP Billiton and Fortescue Metals Group. Refined nickel production at Nickel West's Kwinana refinery increased in 2009–10, after having been negatively affected by supply issues in the previous year. Production of mined gold increased as a result of the start up of the Boddington mine and production growth at existing mines, encouraged by high gold prices. Black coal production increased, primarily reflecting higher production of metallurgical coal in Queensland mines.

Conversely, significant production declines occurred for uranium oxide (U_3O_8) (31 per cent); refined copper (21 per cent); mined nickel (11 per cent); refined lead (11 per cent); mined copper (7 per cent); and mined zinc (3 per cent).

Production of uranium oxide, refined copper and mined copper were all lower in 2009–10, largely reflecting a damaged mine shaft at BHP Billiton's Olympic Dam mine. Uranium oxide production was also negatively affected by the processing of lower grade ores at Energy Resources of Australia's Ranger operation. In 2009–10, production of mined nickel was lower because of the closure of Norilsk's Australian operations, Australian Mines' Blair operation and Consolidated Minerals' Kambalda operation. Refined lead production was lower in 2009–10, primarily because of sinter plant reliability issues at Nyrstar's Port Pirie refinery in the first quarter of 2010. In 2009–10, production of mined zinc decreased, reflecting lower production from Minmetals Group's Golden Grove mine in Western Australia and the Century zinc mine in Queensland.

Commodity highlights

Energy

Oil

Australia's oil production fell by 6 per cent in 2009–10, to 26.1 gigalitres. Flooding in the Cooper Basin, combined with scheduled maintenance at some oil fields, resulted in production declines. These declines more than offset increases in production associated with the start-up of the Pyrenees and Van Gogh fields.

Despite the fall in production, oil exports increased by 8 per cent to 18 gigalitres in 2009–10. The increase in exports reflects increased production off the north-west coast of Australia where the majority of production is sold to Asian refineries. The value of exports increased 9 per cent in 2009–10 to \$9.5 billion, being underpinned by higher export volumes.

Gas

In 2009–10, natural gas production increased by 8 per cent to 43 billion cubic metres. This increased production was underpinned by the start-up of a number of fields, including the Henry and Blacktip gas fields. Increased coal seam gas production also contributed to higher production, with the commencement of production from the Talinga and Camden gas fields.

The volume of Australia's LNG exports in 2009–10 increased by 16 per cent to 17.9 million tonnes, as operation of the fifth train at the North West Shelf reached full capacity. However, export earnings from LNG declined by 23 per cent to \$7.8 billion, reflecting lower prices than in 2008–09.

Coal

In 2009–10, production of salable black coal increased by 7 per cent to 359 million tonnes, supported by increased production in Queensland. In line with higher Queensland coal production, Australia's exports of metallurgical coal increased by 26 per cent to 157 million tonnes. Thermal coal exports remained steady at around 135 million tonnes.

In 2009–10, export unit returns for metallurgical and thermal coal decreased by 47 per cent and 33 per cent, respectively, primarily reflecting lower negotiated contract prices for the Japanese Fiscal Year 2009 (JFY, April 2009 to March 2010). Lower export prices more than offset higher export volumes, resulting in the value of black coal exports declining by 33 per cent to \$36 billion.

Uranium

Australia's uranium production was adversely affected by the closure of the main haulage shaft at BHP Billiton's Olympic Dam operation, and the processing of lower grade ores at Energy Resources of Australia's Ranger operation. As a result, Australia's exports of uranium declined by 29 per cent to 7156 tonnes in 2009–10. Export earnings decreased by 24 per cent to \$751 million, mainly reflecting lower export volumes.

Metals and other minerals

Iron ore

In 2009–10, iron ore production increased by 20 per cent to 423 million tonnes. This was underpinned by higher production from the Pilbara region, where a number of projects were completed. Production commenced at Rio Tinto's Mesa A mine (25 million tonne capacity) in early 2010, BHP Billiton completed the Rapid Growth Project 4 (26 million tonnes) and Fortescue Metals Group continued a staged expansion to 55 million tonnes of capacity at Chichester Hub. Reflecting higher production, export volumes increased by 20 per cent to 390 million tonnes in 2009–10. However, higher export volumes were offset by lower contract prices for the first nine months of the financial year, resulting in export earnings remaining broadly constant at \$34 billion.

Gold

Australia's gold mine production increased by 10 per cent to 239 tonnes in 2009–10. The increase reflected the start-up of production at Boddington in Western Australia and higher production from Cadia Hill and Northparkes in New South Wales. Gold export volumes fell by 22 per cent in 2009–10 to 342 tonnes, as there have been reduced gold imports for refining and re-exporting. Reflecting the lower gold export volumes, export earnings have declined by 20 per cent to \$13 billion.

Copper

In 2009–10, copper mine production decreased by 7 per cent to 825 000 tonnes, primarily reflecting the closure of a mine shaft at BHP Billiton's Olympic Dam operation. As a result, refined copper production also decreased during the year, by 21 per cent to 392 000 tonnes. Export earnings in 2009–10 increased by 11 per cent to \$6.5 billion, as higher average prices more than offset the effect of lower export volumes.

Nickel

Australian nickel mine production declined by 11 per cent in 2009–10 to 164 000 tonnes. This reflects the closure of some mines as a result of the lower nickel prices, including Norilsk's Australian operations, Australian Mines' Blair operation and Consolidated Minerals' Kambalda operation. Refined nickel production increased by 12 per cent in 2009–10 to 147 000 tonnes, mainly because of higher production at BHP Billiton's Kalgoorlie smelter in Western Australia following a shutdown in 2008–09. In 2009–10, nickel export volumes increased by 7 per cent to 207 000 tonnes. The value of Australia's nickel exports increased by 32 per cent to \$3.6 billion in 2009–10, being underpinned by higher world prices and export volumes.

Zinc

Mined zinc production decreased by around 49 000 tonnes (3 per cent) to 1.4 million tonnes in 2009–10, reflecting lower production from Minmetals Group's Golden Grove mine in Western Australia and the Century zinc mine in Queensland. Refined zinc production increased by 2 per cent to 515 000 tonnes, supported by higher production in Sun Metals' Townsville zinc refinery. Export earnings from zinc were 19 per cent higher, at \$2.2 billion, primarily because of higher world prices.

Fiscal year export summary

Australian minerals and energy sector

		export volume			export value				
		2008	2009		2008	2009			
		-09	-10	% change	-09	-10	% change		
Bauxite	kt	7 470	8 024	7	Bauxite	\$m	192	178	-7
Alumina	kt	16 395	16 653	2	Alumina ^a	\$m	6 015	4 969	-17
Aluminium					Aluminium (ingot metal)	\$m	4 724	3 848	-19
(ingot metal)	kt	1 748	1 624	-7	Coal, black				
Coal, black					Metallurgical	\$m	36 813	24 526	-33
Metallurgical	Mt	125	157	26	Thermal	\$m	17 885	11 887	-34
Thermal	Mt	136	135	-1	Copper ^e	\$m	5 863	6 491	11
Copper	kt	815	806	-1	Diamonds ^{cs}	\$m	676	345	-49
Diamonds	'000 ct	16 279	10 355	-36	Gems, other than diamonds	\$m	43	40	-7
Gold	t	437	342	-22	Gold, refined	\$m	16 146	12 996	-20
Iron					Iron				
Iron ore and pellets	kt	323 524	389 846	20	Iron ore and pellets	\$m	34 239	34 481	1
Iron and steel	kt	1 741	1 550	-11	Iron and steel ^s	\$m	1 363	1 107	-19
Lead	kt	645	657	2	Lead ^e	\$m	1 637	1 812	11
Manganese ore and concentrate ^s	kt	3 226	5 659	75	Manganese ore and concentrate	\$m	1 406	1 394	-1
Nickel	kt	194	207	7	Nickel ^{es}	\$m	2 705	3 581	32
Petroleum					Petroleum				
Crude oil and other refinery feedstock	ML	16 588	17 986	8	Crude oil and other refinery feedstock	\$m	8 757	9 515	9
LNG	Mt	15	18	20	LNG	\$m	10 079	7 804	-23
LPG	ML	2 500	2 766	11	LPG	\$m	1 044	1 108	6
Refinery products	ML	1 164	805	-31	Refinery products	\$m	788	564	-28
Salt	kt	10 978	11 185	2	Salt ^s	\$m	237	247	4
Tin	t	4 159	6 031	45	Silver, refined	\$m	245	254	4
Titanium					Tin ^e	\$m	70	101	44
Ilmenite concentrate	kt	1 538	1 763	15	Titanium				
Leucoxene concentrate	kt	20	18	-10	Ilmenite concentrate	\$m	171	197	15
Rutile concentrate	kt	550	575	5	Leucoxene concentrate	\$m	12	11	-8
Synthetic rutile ^s	kt	512	513	0	Rutile concentrate	\$m	335	382	14
Titanium dioxide pigment	kt	141	181	28	Synthetic rutile ^s	\$m	258	269	4
Uranium oxide (U ₃ O ₈)	t	10 114	7 156	-29	Titanium dioxide pigment	\$m	396	448	13
Zinc	kt	1 471	1 488	1	Uranium oxide (U ₃ O ₈)	\$m	990	751	-24
Zircon concentrate	kt	685	748	9	Zinc ^e	\$m	1 858	2 218	19
					Zircon concentrate	\$m	540	370	-31
					Other mineral resources ^f	\$m	4 716	5 269	12
					Total mineral resources ^g	\$m	160 209	137 172	-14
					Total merchandise	\$m	231 564	201 458	-13
					Total goods and services	\$m	284 437	254 004	-11

^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-BRS balance of payments basis. ^p Preliminary. ^s ABARE-BRS estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE-BRS.

Fiscal year production summary

Australian minerals and energy sector

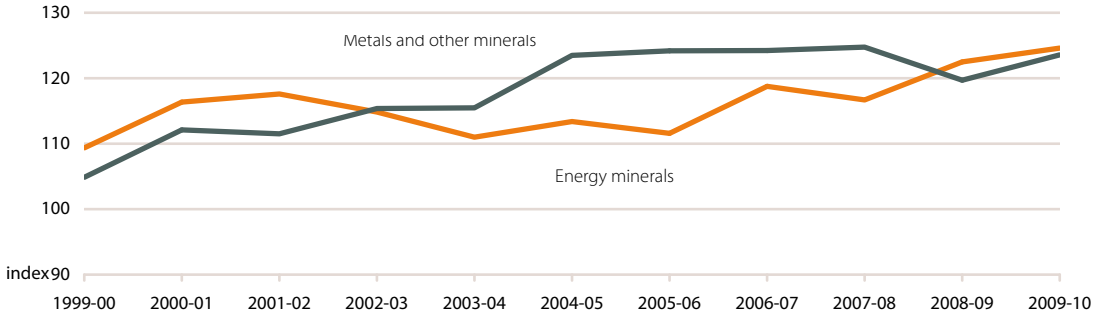
		2008-09	2009-10	% change
Bauxite	kt	64 055	67 485	5
Alumina	kt	19 597	20 057	2
Aluminium (ingot metal)	kt	1 974	1 918	-3
Coal				
Black, raw	Mt	441	460	4
Black, salable	Mt	334	359	7
Brown s	Mt	68	na	na
Copper				
Mine as	kt	890	825	-7
Blister b	kt	459	379	-17
Refined s	kt	499	392	-21
Diamonds	'000 ct	15 169	11 135	-27
Gold				
Mine as	t	218	239	10
Refined	t	386	356	-8
Iron				
Iron ore and concentrate	kt	352 996	423 391	20
Iron and steel s	kt	5 568	6 886	24
Lead				
Mine as	kt	596	593	-1
Bullion b	kt	155	148	-5
Refined	kt	213	189	-11
Manganese s	kt	3 730	5 807	56
Nickel				
Mine as	kt	185	164	-11
Intermediate	kt	21	33	57
Refined, class 1	kt	95	108	14
Refined, class 2	kt	15	6	-60
Petroleum, field				
Crude oil and condensate s	ML	27 788	26 083	-6
LPG (naturally occurring)	ML	3 929	4 097	4
Natural gas	Mm ³	40 109	43 202	8
Petroleum, total refinery	ML	39 546	37 674	-5
Salt s	kt	11 311	9 571	-15
Silver				
Mine as	t	1 775	1 749	-1
Refined	t	751	701	-7
Tin				
Mine as	t	4 045	19 829	390
Titanium s				
Ilmenite concentrate	kt	1 734	1 220	-30
Leucoxene concentrate	kt	164	163	-1
Rutile concentrate	kt	308	323	5
Synthetic rutile	kt	716	550	-23
Titanium dioxide pigment	kt	221	266	20
Uranium oxide (U ₃ O ₈)	t	10 311	7 156	-31
Zinc				
Mine as	kt	1 411	1 362	-3
Refined	kt	506	515	2
Zircon concentrate s	kt	534	497	-7

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

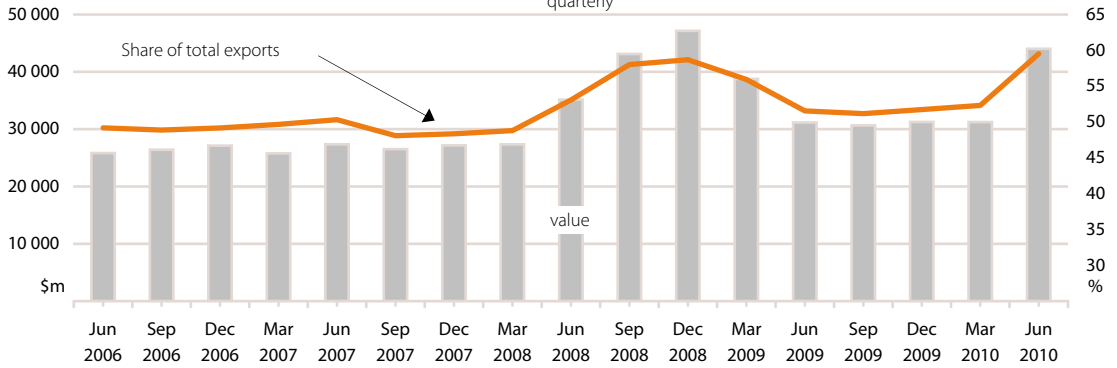
Sources: Australian Bureau of Statistics, Canberra; Coal Services Pty Limited; Queensland Government, Department of Natural Resources and Mines; ABARE-BRS; Department of Resources, Energy and Tourism, Canberra.

Resource sector indicators

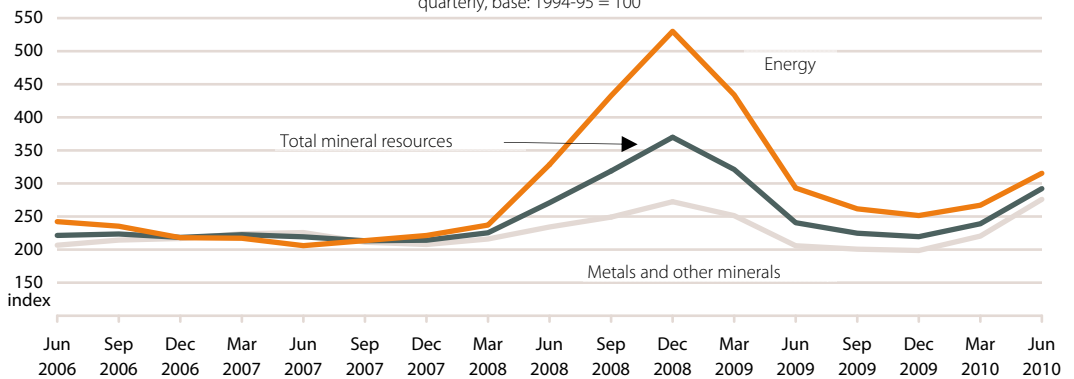
Mine production
base: 1997-98 = 100



Mineral resources exports
quarterly



Export unit returns
quarterly, base: 1994-95 = 100



1 Production summary

		2008-09	2009-10 ^p	quarter					
				2008-09		2009-10 ^p			
				Mar	Jun	Sep	Dec	Mar	Jun
Bauxite	kt	64 055	67 485	15 678	16 313	16 437	17 415	17 092	16 541
Alumina	kt	19 597	20 057	4 810	4 974	5 038	5 117	4 952	4 950
Aluminium (ingot metal)	kt	1 974	1 918	485	492	482	484	471	481
Coal									
Black, raw	Mt	441	460	98	114	118	121	104	117
Black, salable	Mt	334	359	73	88	93	93	82	90
Brown ^{as}	Mt	68	na	na	na	na	na	na	na
Copper									
Mine ^{bs}	kt	890	825	198	230	214	212	184	216
Blister ^c	kt	459	379	101	115	108	98	70	103
Refined ^s	kt	499	392	109	122	114	101	71	107
Diamonds	'000 ct	15 169	11 135	4 449	453	2 334	3 559	2 573	2 669
Gold									
Mine ^{bs}	t	218	239	53	55	54	60	60	64
Refined	t	386	356	129	76	87	87	77	104
Iron									
Iron ore and concentrate	kt	352 996	423 391	80 487	98 844	106 962	107 776	103 449	105 204
Iron and steel ^s	kt	5 568	6 886	958	964	1 501	1 712	1 860	1 813
Lead									
Mine ^{bs}	kt	596	593	119	150	150	147	146	149
Bullion ^c	kt	155	148	32	40	38	36	36	38
Refined	kt	213	189	45	55	53	51	35	50
Manganese ^s	kt	3 730	5 807	686	941	1 441	1 376	1 629	1 360
Nickel									
Mine ^{bs}	kt	185	164	46	39	40	41	39	43
Intermediate	kt	21	33	6	4	5	12	11	5
Refined, class 1	kt	95	108	28	31	30	34	27	17
Refined, class 2	kt	15	6	3	3	1	1	2	2
Petroleum, field									
Crude oil and condensate ^s	ML	27 787	26 083	6 851	6 477	6 882	6 696	6 344	6 162
LPG (naturally occurring)	ML	3 929	4 097	870	1 069	1 104	1 010	957	1 025
Natural gas	Mm ³	40 109	43 202	9 658	10 766	11 050	10 871	10 629	10 652
Petroleum, total refinery	ML	39 546	37 674	9 620	9 850	9 531	9 357	9 273	9 111
Salt ^s	kt	11 311	9 571	2 826	2 616	2 544	2 330	2 342	2 354
Silver									
Mine ^{bs}	t	1 775	1 749	349	429	402	453	458	436
Refined	t	751	701	186	195	189	185	156	170
Tin									
Mine ^{bs}	t	4 045	19 829	1 477	1 399	5 185	5 208	4 763	4 673
Titanium ^s									
Ilmenite concentrate	kt	1 734	1 220	378	424	315	332	309	265
Leucoxene concentrate	kt	164	163	43	40	40	42	40	42
Rutile concentrate	kt	308	323	79	66	63	73	88	99
Synthetic rutile	kt	716	550	190	153	135	138	137	140
Titanium dioxide pigment	kt	221	266	57	60	63	68	68	68
Uranium oxide (U ₃ O ₈)	t	10 311	7 156	2 252	2 790	2 685	1 638	1 142	1 691
Zinc									
Mine ^{bs}	kt	1 411	1 362	291	357	369	273	336	385
Refined	kt	506	515	126	132	137	130	118	130
Zircon concentrate ^s	kt	534	497	146	112	112	104	121	159

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

2 Volume of mine production indexes ^a

	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10 p
Energy minerals	114.8	111.0	113.4	111.6	118.8	116.7	122.5	124.6
Metals and other minerals	115.4	115.5	123.5	124.2	124.2	124.7	119.7	123.6
Total minerals	115.2	113.3	118.6	118.0	121.3	120.7	121.2	124.1

a Uranium included with energy. **p** Preliminary.

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-BRS.

3 Exports summary

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Bauxite	kt	7 470	8 024	1 157	1 317	1 616	2 284	1 909	2 215
Alumina a	kt	16 395	16 653	4 056	4 172	4 074	4 314	3 972	4 293
Aluminium (ingot metal)	kt	1 748	1 624	432	438	386	419	374	445
Coal, black									
Metallurgical	Mt	125.24	157.26	23.74	33.04	38.80	39.45	35.43	43.59
Thermal	Mt	136.36	134.97	34.31	34.58	34.68	35.58	30.87	33.85
Copper bs	kt	815	806	167	212	203	205	177	221
Diamonds cs	'000 ct	16 279	10 355	5 428	583	675	2 975	3 860	2 845
Gold bs	t	437.26	342.12	124.44	81.99	74.57	80.70	81.00	105.86
Iron									
Iron ore and pellets	kt	323 524	389 846	78 319	88 945	97 594	98 063	94 567	99 622
Iron and steel s	kt	1 741	1 550	413	488	280	337	430	502
Lead bs	kt	645	657	126	182	154	184	134	185
Manganese ore									
and concentrate	kt	3 226	5 659	706	1 106	1 422	1 421	1 461	1 355
Nickel ds	kt	194	207	53	50	49	63	53	41
Petroleum									
Crude oil and other									
refinery feedstock	ML	16 588	17 986	3 964	3 765	4 123	4 604	3 786	5 473
LNG s	Mt	15.41	17.87	4.15	4.04	4.66	4.45	4.66	4.10
LPG	ML	2 500	2 766	622	621	846	761	638	522
Refinery products	ML	1 164	805	343	296	211	211	182	201
Salt s	kt	10 978	11 185	2 748	2 762	2 775	2 789	2 803	2 817
Tin b	t	4 159	6 031	1 651	1 483	1 700	1 252	1 647	1 432
Titanium									
Ilmenite concentrate	kt	1 538	1 763	389	567	396	426	541	399
Leucoxene concentrate	kt	20	18	2	3	4	4	4	5
Rutile concentrate	kt	550	575	148	177	122	140	147	166
Synthetic rutile s	kt	512	513	127	128	130	130	119	134
Titanium dioxide pigment	kt	141	181	26	55	52	46	41	42
Uranium oxide (U ₃ O ₈)	t	10 114	7 156 s	2 172	2 844	2 685 s	1 638 s	1 142 s	1 691 s
Zinc b	kt	1 471	1 488	291	399	349	384	318	437
Zircon concentrate	kt	685	748	174	177	193	200	184	171

continued

3 Exports summary

continued

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Bauxite	\$m	192	178	33	27	30	45	44	60
Alumina a	\$m	6 015	4 969	1 349	1 102	1 103	1 204	1 242	1 420
Aluminium (ingot metal)	\$m	4 724	3 848	1 004	888	843	936	937	1 131
Coal, black									
Metallurgical	\$m	36 813	24 526	7 690	6 240	5 712	5 344	4 988	8 482
Thermal	\$m	17 885	11 887	4 971	3 430	3 143	2 874	2 609	3 261
Copper e	\$m	5 863	6 491	1 091	1 557	1 524	1 658	1 435	1 875
Diamonds cs	\$m	676	345	241	76	59	89	97	100
Gems, other than diamonds	\$m	43	40	15	8	9	7	15	9
Gold, refined	\$m	16 146	12 996	5 388	3 099	2 689	3 028	3 069	4 209
Iron									
Iron ore and pellets	\$m	34 239	34 481	8 884	7 052	7 181	6 931	7 801	12 569
Iron and steel s	\$m	1 363	1 107	218	207	201	225	285	396
Lead e	\$m	1 637	1 812	336	424	429	463	402	518
Manganese ore									
and concentrate	\$m	1 406	1 394	250	195	237	317	394	447
Nickel es	\$m	2 705	3 581	681	704	862	979	976	764
Petroleum									
Crude oil and other									
refinery feedstock	\$m	8 757	9 515	1 620	1 667	2 089	2 350	2 017	3 059
LNG	\$m	10 079	7 804	2 483	1 591	1 713	1 840	2 219	2 032
LPG	\$m	1 044	1 108	215	198	292	297	285	234
Refinery products	\$m	788	564	205	188	136	129	139	159
Salt s	\$m	237	247	59	60	61	61	62	63
Silver, refined	\$m	245	254	58	66	56	72	67	58
Tin e	\$m	70	101	26	24	26	21	26	28
Titanium									
Ilmenite concentrate	\$m	171	197	42	61	44	48	61	45
Leucoxene concentrate	\$m	12	11	1	2	3	3	3	3
Rutile concentrate	\$m	335	382	98	105	82	84	100	116
Synthetic rutile s	\$m	258	269	68	62	70	62	64	74
Titanium dioxide pigment	\$m	396	448	85	144	128	109	101	110
Uranium oxide (U ₃ O ₈)	\$m	990	751 s	293	304	291 s	182 s	116 s	162 s
Zinc e	\$m	1 858	2 218	363	460	435	545	533	705
Zircon concentrate	\$m	540	370	134	142	118	97	74	81
Other mineral resources f	\$m	4 716	5 269	872	1 081	1 085	1 254	1 085	1 844
Total mineral resources g	\$m	160 209	137 172	38 775	31 163	30 653	31 257	31 245	44 017
Total merchandise	\$m	231 564	201 458	55 840	47 605	46 699	47 022	46 406	61 331
Total goods and services	\$m	284 437	254 004	69 318	60 455	59 911	60 415	59 727	73 951

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-BRS balance of payments basis. **p** Preliminary. **s** ABARE-BRS estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE-BRS.

4 Mineral resources export unit returns ^a

	quarter							
	2008-09				2009-10 p			
	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun
Energy minerals	432.6	530.1	434.0	293.1	261.7	251.5	267.1	320.1
Metals and other minerals	249.2	272.4	251.3	205.8	200.6	198.6	220.7	278.1
Total mineral resources	318.8	369.8	321.1	240.7	224.7	219.5	239.2	295.2

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

Sources: Australian Bureau of Statistics, Canberra; ABARE-BRS.

5 Imports summary

Quantity		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Diamonds a	'000 ct	767	1 024	169	174	208	202	315	300
Iron ore	kt	3 599	5 094	550	358	1 268	1 674	1 008	1 143
Ingot steel	kt	2 082	1 736	364	231	349	424	488	475
Ferroalloys	kt	54	71	9	6	12	15	18	25
Petroleum									
Crude oil and other refinery feedstock	ML	24 302	27 284	5 571	6 334	6 499	6 665	6 852	7 268
Natural gas	kt	4 752	4 149	1 191	1 141	1 282	1 069	1 025	773
Refinery products	ML	19 697	19 993	4 940	4 780	5 154	5 577	4 500	4 762
Phosphate rock	kt	540	85	1	28	0	73	11	0
Value									
Diamonds a	\$m	417	442	99	102	110	114	113	105
Gold b	\$m	11 250	7 730	3 898	1 636	1 677	1 984	1 585	2 484
Iron ore	\$m	269	260	53	10	56	76	61	67
Ingot steel	\$m	3 191	1 888	635	345	379	463	511	535
Ferroalloys	\$m	181	118	29	16	21	27	37	33
Nickel	\$m	48	35	10	8	8	8	5	13
Petroleum									
Crude oil and other refinery feedstock	\$m	14 727	15 030	2 380	2 975	3 573	3 642	3 702	4 114
Natural gas	\$m	2 166	1 219	850	377	326	330	286	276
Refinery products	\$m	13 129	11 312	2 662	2 503	2 821	3 026	2 577	2 889
Phosphate rock	\$m	193	10	0	6	0	8	1	0
Silver	\$m	223	107	98	12	18	51	32	7
Other	\$m	1 436	1 597	247	179	293	377	544	383
Total	\$m	47 229	39 750	10 963	8 169	9 283	10 106	9 454	10 906

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-BRS.

6 Private mineral exploration expenditure

Energy		2007-08	2008-09	quarter					
				2008-09			2009-10 p		
				Dec	Mar	Jun	Sep	Dec	Mar
Petroleum									
Onshore	\$m	493.8	492.3	135.8	86.2	149.9	148.7	212.3	178.4
Offshore	\$m	2 541.1	3 318.4	877.6	912.4	867.5	649.0	614.7	685.1
Total	\$m	3 034.9	3 810.7	1 013.4	998.6	1 017.4	797.7	827.0	863.5
Coal	\$m	234.8	297.3	82.9	69.2	76.7	82.1	84.7	60.4
Uranium	\$m	231.5	185.2	51.9	27.7	48.9	53.9	49.1	23.7
Total energy	\$m	3 501.2	4 293.2	1 148.2	1 095.5	1 143.0	933.7	960.8	947.6
Metals and other minerals									
Copper	\$m	293.5	178.7	55.7	25.8	18.0	37.0	54.0	47.0
Diamonds	\$m	21.7	10.0	3.5	2.0	2.1	2.7	1.0	0.0
Gold	\$m	592.6	438.0	120.4	85.6	98.8	133.4	145.5	130.8
Iron ore	\$m	449.8	588.7	182.5	105.6	138.6	140.5	136.5	96.3
Mineral sands	\$m	37.0	30.6	9.1	5.4	7.0	9.5	6.5	0.0
Nickel, cobalt	\$m	303.2	259.9	78.5	41.2	45.2	48.6	51.3	47.6
Silver, lead and zinc	\$m	186.5	80.5	20.2	17.6	7.9	12.3	10.4	13.0
Other	\$m	110.8	154.3	43.8	23.4	40.3	37.4	39.8	40.5
Total metals and other minerals	\$m	1 995.1	1 740.7	513.7	306.6	357.9	421.4	445.0	375.2
Total expenditure	\$m	5 496.3	6 033.9	1 661.9	1 402.1	1 500.9	1 355.1	1 405.8	1 322.8

p Preliminary.

Sources: Australian Bureau of Statistics, Canberra; ABARE-BRS.

7 Mineral resources prices

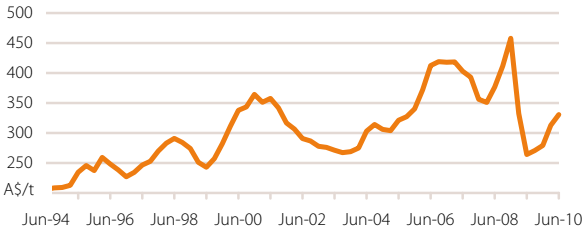
	Alumina	Aluminium	Gold	Iron ore ^a	Thermal coal	Metallurgical coal	Crude oil ^b	Uranium ^c
	avg export unit value	(high grade) LME cash	London AM fix	avg export unit value	avg export unit value	avg export unit value	world trade wtd ave	Industry spot price
	A\$/t	US\$/t	US\$/oz	A\$/t	A\$/t	A\$/t	US\$/bbl	US\$/lb
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
2009-10	298.39	2 017.16	1 091.75	88.45	88.07	155.95	71.92	43.81
2009								
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	69.98	82.58	133.30	76.19	45.50
December	287.66	2 180.10	1 135.01	71.27	79.82	138.98	73.11	44.50
2010								
January	308.27	2 235.15	1 119.58	74.93	82.85	137.67	76.07	42.50
February	324.03	2 058.91	1 095.80	87.01	85.80	140.32	73.04	41.75
March	308.36	2 205.63	1 115.55	86.37	85.32	145.33	77.54	42.00
April	313.24	2 316.63	1 148.48	119.55	87.58	172.80	82.00	41.75
May	343.04	2 040.53	1 204.32	131.86	98.46	197.48	74.34	40.75
June	337.28	1 929.25	1 232.38	126.40	102.81	211.64	72.65	41.75
	Copper (high grade)	Lead	Zinc (high grade)	Silver ^d	Nickel	Ilmenite ^e	Rutile ^f	Zircon ^g
	LME cash	LME cash	LME cash	London fix	LME cash	avg export unit value	avg export unit value	avg export unit value
	US\$/t	US\$/t	US\$/t	US\$/troy oz	US\$/t	A\$/t	A\$/t	A\$/t
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
2009-10	6 551.50	2 092.71	2 000.75	1 688.07	19 390.25	111.78 ^s	664.64	494.19
2009								
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
April	7 745.08	2 264.85	2 366.68	1 809.95	26 035.25	na	929.99	943.03
May	6 837.68	1 882.68	1 968.37	1 841.84	22 008.16	na	916.30	1 023.39
June	6 491.00	1 702.50	1 741.30	1 845.48	19 356.59	na	989.28	1 064.05

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. **s** ABARE-BRS estimate. **na** Not available.

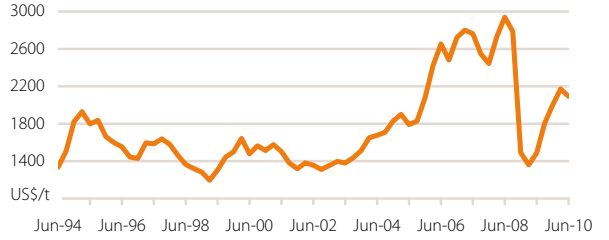
Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; London Bullion Market Association; The Ux Consulting Company; US Department of Energy; ABARE-BRS.

Mineral resources prices, ended June quarter 2010

Alumina



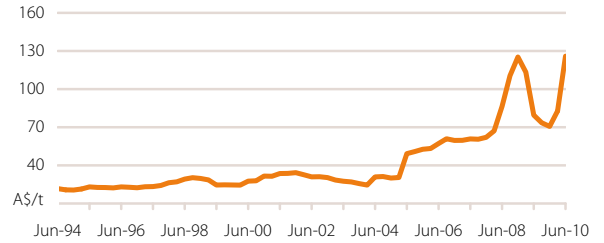
Aluminium



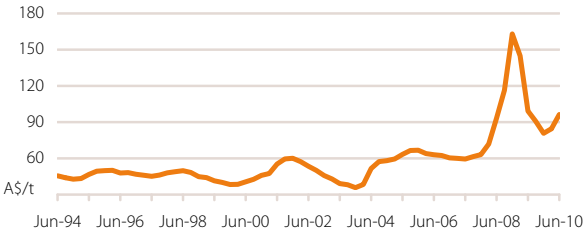
Gold



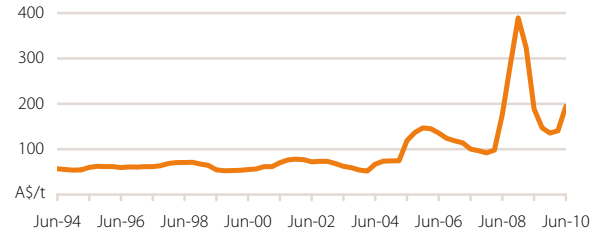
Iron ore



Thermal coal



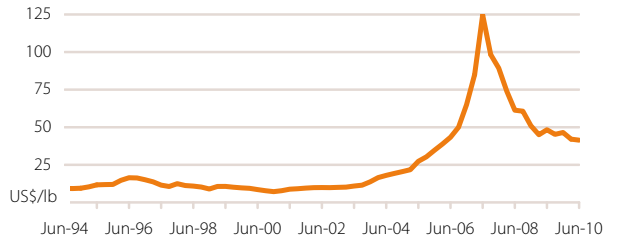
Metallurgical coal



Crude oil

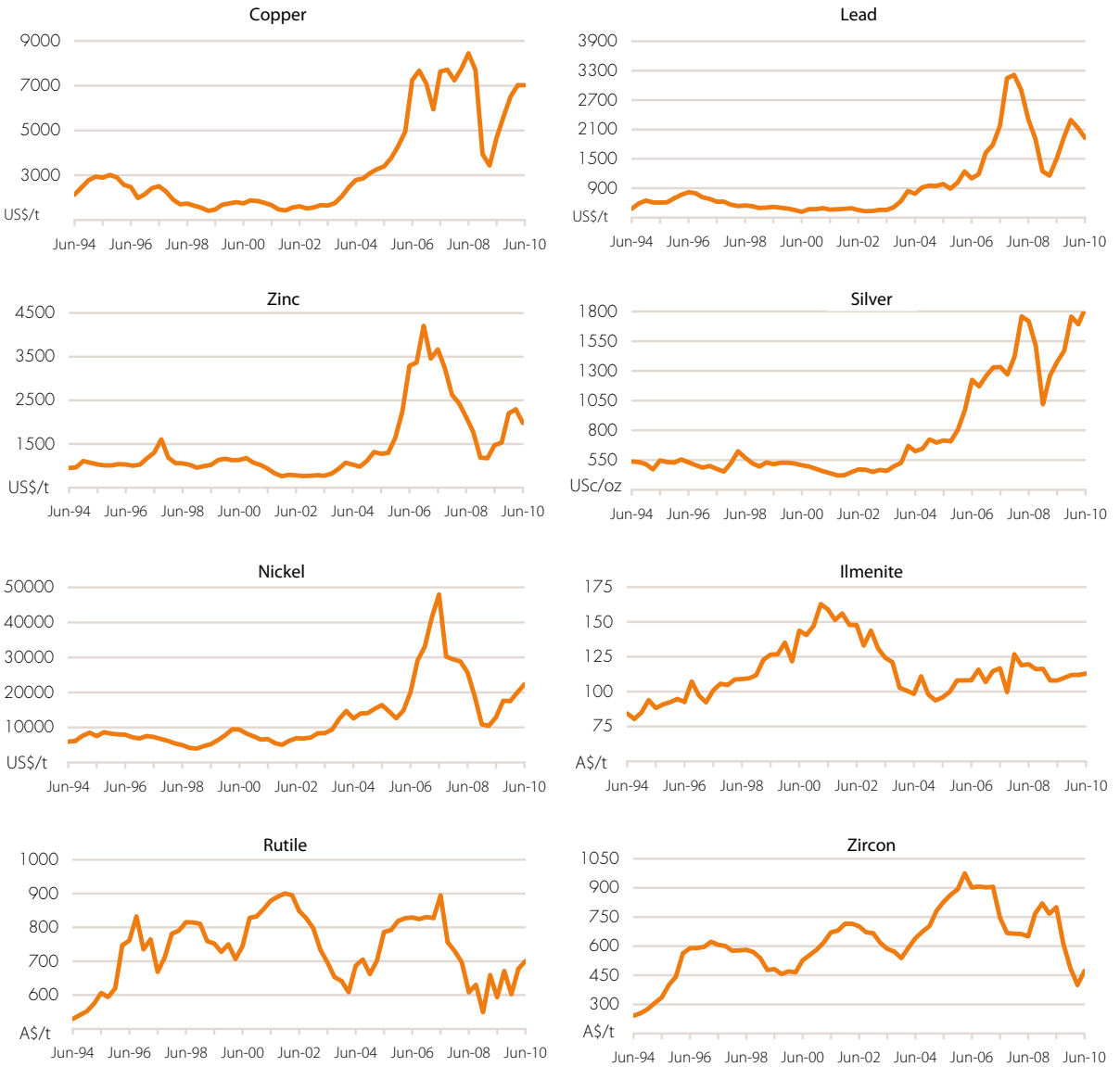


Uranium



Mineral resources prices, ended June 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-BRS.

8 Aluminium

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production									
Mine									
Bauxite									
Queensland	kt	16 395	17 707	4 085	3 929	3 949	4 942	4 550	4 266
Western Australia s	kt	41 364	42 899	10 111	10 627	10 642	10 870	10 733	10 655
Northern Territory	kt	6 296	6 879	1 482	1 757	1 846	1 603	1 809	1 620
Australia s	kt	64 055	67 485	15 678	16 313	16 437	17 415	17 092	16 541
Alumina content s	kt	23 868	25 282	5 850	6 049	6 085	6 571	6 446	6 181
Smelter and refinery									
Alumina	kt	19 597	20 057	4 810	4 974	5 038	5 117	4 952	4 950
Aluminium (ingot metal)	kt	1 974	1 918	485	492	482	484	471	481
Exports									
Quantity									
Bauxite a	kt	7 470	8 024	1 157	1 317	1 616	2 284	1 909	2 215
Alumina bc	kt	16 395	16 653	4 056	4 172	4 074	4 314	3 972	4 293
Aluminium (ingot metal)									
Chinese Taipei	kt	164	191	27	49	52	48	44	48
Indonesia	kt	76	101	9	22	30	30	23	19
Japan	kt	478	551	85	58	90	140	139	182
Korea, Rep. of	kt	369	333	131	103	91	84	69	88
Malaysia	kt	144	98	51	30	32	26	18	22
Thailand	kt	185	162	43	37	38	47	42	35
Other	kt	332	187	86	139	53	44	39	52
Total	kt	1 748	1 624	432	438	386	419	374	445
Value									
Bauxite a	\$m	192	178	33	27	30	45	44	60
Alumina bc	\$m	6 015	4 969	1 349	1 102	1 103	1 204	1 242	1 420
Aluminium (ingot metal)	\$m	4 724	3 848	1 004	888	843	936	937	1 131
Imports									
Quantity									
Bauxite a	kt	14	4	3	0	0	0	2	2
Alumina bc	kt	10	10	2	1	1	2	3	3
Aluminium (ingot metal)	kt	4	12	1	2	3	4	4	2
Value									
Bauxite	\$m	10	2	3	0	0	0	1	1
Alumina b	\$m	13	12	2	2	2	3	4	3
Aluminium (ingot metal)	\$m	10	27	3	3	6	8	8	5
Prices									
Alumina d	A\$/t	367	298	332	264	271	279	313	331
Aluminium									
LME cash e	US\$/t	1 781	2 017	1 360	1 488	1 805	2 000	2 171	2 093
Australia d	A\$/t	2 702	2 370	2 327	2 027	2 183	2 237	2 504	2 543

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

9 Coal

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production									
Mine									
Black coal, raw									
Underground	Mt	103.28	112.83	22.08	25.69	28.29	28.74	26.49	29.32
Opencut	Mt	337.53	346.92	76.37	88.10	90.09	92.08	77.27	87.49
New South Wales	Mt	182.18	191.04	41.39	45.29	51.61	47.45	44.94	47.04
Queensland	Mt	244.52	257.44	53.90	65.32	63.94	70.55	56.00	66.95
Western Australia a	Mt	8.75	6.80	1.78	1.78	1.70	1.70	1.70	1.70
South Australia a	Mt	4.73	3.84	1.23	1.23	0.96	0.96	0.96	0.96
Tasmania a	Mt	0.64	0.64	0.16	0.16	0.16	0.16	0.16	0.16
Australia	Mt	440.81	459.76	98.46	113.79	118.37	120.82	103.76	116.81
Black coal, salable									
Underground	Mt	81.65	82.20	17.20	20.89	21.52	21.39	18.50	20.79
Opencut	Mt	251.80	276.68	56.11	67.23	71.96	71.71	63.97	69.05
New South Wales	Mt	135.94	149.53	31.30	34.19	39.72	36.98	34.37	38.46
Queensland	Mt	186.43	198.09	39.45	51.36	50.95	53.30	45.28	48.56
Western Australia a	Mt	7.00	6.80	1.43	1.43	1.70	1.70	1.70	1.70
South Australia a	Mt	3.79	3.84	0.99	0.99	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	333.77	358.88	73.32	88.11	93.48	93.10	82.47	89.83
Brown coal b									
Victoria s	Mt	68.25	na	na	na	na	na	na	na
Exports									
Quantity									
Metallurgical coal, high quality									
Brazil	Mt	2.34	2.99	0.23	0.55	0.38	0.97	0.76	0.88
China	Mt	9.81	15.52	3.66	5.65	5.74	3.93	3.04	2.80
Chinese Taipei	Mt	2.66	3.49	0.43	0.69	0.84	0.68	0.76	1.21
European Union 27	Mt	12.79	13.54	1.35	1.93	2.82	3.15	2.83	4.75
India	Mt	19.17	24.51	3.35	5.69	5.52	6.27	5.02	7.70
Japan	Mt	22.78	26.25	4.59	4.57	6.30	6.77	5.71	7.47
Korea, Rep. of	Mt	5.47	6.89	1.44	1.02	1.79	1.35	1.88	1.87
Other	Mt	4.61	4.52	0.50	0.74	0.95	1.00	1.13	1.43
Total	Mt	79.63	97.71	15.55	20.84	24.34	24.13	21.13	28.11
Metallurgical coal, other c									
European Union 27	Mt	1.90	2.07	0.33	0.25	0.22	0.57	0.41	0.88
India	Mt	5.10	6.87	0.73	1.68	1.70	1.86	1.65	1.66
Japan	Mt	19.44	22.21	3.91	4.00	5.05	5.48	5.58	6.10
Other	Mt	19.17	28.41	3.22	6.28	7.48	7.42	6.66	6.85
Total	Mt	45.61	59.56	8.19	12.20	14.45	15.32	14.30	15.48
Total metallurgical coal	Mt	125.24	157.26	23.74	33.04	38.80	39.45	35.43	43.59
Thermal coal									
Chinese Taipei	Mt	20.30	19.55	4.98	4.62	5.25	4.98	4.54	4.78
European Union 27	Mt	3.72	0.28	1.22	0.75	0.13	0.08	0.00	0.07
Japan	Mt	62.58	66.41	16.00	12.20	16.09	16.40	15.45	18.47
Korea, Rep. of	Mt	30.14	24.84	8.04	8.02	6.06	7.03	5.71	6.04
Other	Mt	19.62	23.89	4.07	9.00	7.15	7.09	5.16	4.48
Total	Mt	136.36	134.97	34.31	34.58	34.68	35.58	30.87	33.85

continued

9 Coal

continued

		2008-09	2009-10 ^p	quarter					
				2008-09		2009-10 ^p			
				Mar	Jun	Sep	Dec	Mar	Jun
Exports									
Quantity ^d									
Other coal	Mt	0.20	0.15	0.00	0.14	0.00	0.22	0.07	0.08
Value									
Metallurgical coal									
High quality	\$m	10 847	25 344	5 328	4 232	4 016	3 662	3 416	5 965
Other quality	\$m	5 191	11 469	2 362	2 008	1 696	1 682	1 572	2 518
Total metallurgical coal	\$m	16 038	36 813	7 690	6 240	5 712	5 344	4 988	8 482
Thermal coal									
Other coal	\$m	8 365	17 885	4 971	3 430	3 143	2 874	2 609	3 261
Other coal	\$m	12	17	2	14	0	21	7	7
Total coal	\$m	24 416	54 715	12 663	9 684	8 855	8 239	7 604	11 750
Coke	\$m	176	232	42	70	26	17	17	40
Imports									
Quantity									
Coke	Mt	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01
Value									
Coke	\$m	1	3	3	0	0	0	0	6
Prices ^e									
Metallurgical coal									
High quality	A\$/t	129.66	318.28	342.53	203.04	164.98	151.78	161.67	212.18
Other quality	A\$/t	97.46	251.46	288.47	164.57	117.31	109.78	109.91	162.64
Thermal coal	A\$/t	72.70	131.16	144.88	99.19	90.64	80.77	84.53	96.33

a Quarterly data derived from annual ABARE-BRS 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-BRS estimate. **na** Not available.

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

10 Copper

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production									
Mine s									
Copper ore and concentrate	kt	3 475	3 330	879	918	850	865	765	850
Copper content of all minerals produced									
New South Wales a	kt	158	158	41	42	40	40	39	39
Queensland a	kt	343	250	68	72	66	61	57	66
Western Australia a	kt	134	160	35	35	34	41	46	38
South Australia	kt	226	228	50	73	66	63	34	66
Tasmania	kt	26	30	5	8	8	7	7	7
Australia a	kt	890	825	198	230	214	212	184	216
Smelter and refinery									
Blister copper (primary) b	kt	459	379	101	115	108	98	70	103
Refined copper (primary) s	kt	499	392	109	122	114	101	71	107
Exports									
Quantity									
Copper concentrate									
China c	kt	637	614	127	213	170	133	166	146
India	kt	489	609	92	109	132	156	159	162
Japan	kt	395	371	77	103	114	108	75	74
Korea, Rep. of	kt	177	211	31	36	22	44	61	84
Other	kt	100	127	31	20	28	55	11	33
Total	kt	1 797	1 933	357	481	467	496	472	498
Refined copper									
China c	kt	123	119	44	27	32	33	25	29
Chinese Taipei	kt	58	45	3	12	11	9	6	19
Germany	kt	0	0	0	0	0	0	0	0
Indonesia	kt	14	12	1	2	2	2	4	3
Japan	kt	4	1	0	0	0	0	0	0
Korea, Rep. of	kt	34	15	3	15	3	7	4	1
Malaysia	kt	47	39	14	15	12	8	5	14
Singapore	kt	14	0	1	0	0	0	0	0
Thailand	kt	25	10	4	6	5	2	1	2
Vietnam	kt	24	25	6	8	10	8	2	5
Other	kt	18	6	4	3	3	1	0	2
Total	kt	361	271	80	87	78	71	47	75
Copper content of all primary materials exported ds	kt	815	806	167	212	203	205	177	221
Value									
Copper concentrate	\$m	3 618	4 526	660	1 013	967	1 150	1 098	1 311
Refined copper	\$m	2 245	1 965	430	544	557	508	337	564
Total	\$m	5 863	6 491	1 091	1 557	1 524	1 658	1 435	1 875
Prices e									
LME cash	US\$/t	4 936	6 552	3 435	4 675	5 630	6 529	7 020	7 025
Australia	A\$/t	6 439	7 553	5 167	6 137	7 004	7 287	7 998	7 924

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-BRS estimate.

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

11 Diamonds and other gemstones

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production									
Diamonds									
Western Australia	'000 ct	15 166	11 131	4 447	451	2 333	3 558	2 571	2 669
Australia	'000 ct	15 169	11 135	4 449	453	2 334	3 559	2 573	2 669
Exports									
Quantity									
Diamonds									
Unsorted s	'000 ct	16 207	10 299	5 417	572	658	2 962	3 847	2 831
Sorted									
Gem	'000 ct	71	56	12	11	16	13	13	14
Industrial a	'000 ct	0	0	0	0	0	0	0	0
Total s	'000 ct	16 279	10 355	5 428	583	675	2 975	3 860	2 845
Value									
Diamonds									
Unsorted s	\$m	489	168	195	30	21	47	37	63
Sorted									
Gem	\$m	187	176	46	46	39	42	59	37
Industrial a	\$m	1	1	0	0	0	0	1	0
Total s	\$m	676	345	241	76	59	89	97	100
Opals									
Rough	\$m	7	6	4	0	1	1	3	1
Cut and polished	\$m	29	28	9	7	6	4	11	7
Total	\$m	36	33	13	7	7	5	14	8
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	6	5	1	1	2	1	1	1
Total gemstones	\$m	43	40	15	8	9	7	15	9
Imports									
Quantity									
Diamonds									
Unsorted	'000 ct	0	0	0	0	0	0	0	0
Sorted									
Gem	'000 ct	325	317	73	69	96	75	79	66
Industrial a	'000 ct	6	2	4	0	1	0	1	1
Dust and powder	'000 ct	435	705	92	104	111	127	235	232
Value									
Diamonds									
Unsorted	\$m	1	0	1	0	0	0	0	0
Sorted									
Gem	\$m	412	438	97	101	109	113	112	104
Industrial a	\$m	3	3	1	0	1	0	1	0
Dust and powder	\$m	1	1	0	0	0	0	0	0
Total	\$m	417	442	99	102	110	114	113	105

a Excludes dust, powder and unsorted diamonds. b Includes cut and polished sapphires from 1 July 2000. p Preliminary. s ABARE-BRS estimate.
Sources: Australian Bureau of Statistics, Canberra; ABARE-BRS.

12 Gold

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production									
Mine s									
Gold content of all minerals produced									
New South Wales	t	28	26	6	6	6	7	7	7
Victoria	t	7	7	2	2	2	2	2	2
Queensland	t	17	15	4	4	4	4	3	3
Western Australia	t	140	167	35	37	37	43	43	45
South Australia	t	8	9	2	2	2	2	2	2
Tasmania	t	5	5	1	1	1	1	1	1
Northern Territory	t	12	9	3	3	2	2	2	3
Australia	t	218	239	53	55	54	60	60	64
Refinery									
Primary									
Australian origin	t	179	194	45	45	47	48	48	50
Overseas origin	t	74	69	21	17	14	19	18	18
Secondary									
Australian origin	t	6	3	1	1	1	1	1	1
Overseas origin	t	127	90	63	12	24	20	10	35
Total	t	386	356	129	76	87	87	77	104
Exports									
Quantity									
Refined and unrefined bullion									
Hong Kong, China	t	2	1	1	0	0	0	1	0
India	t	160	188	28	51	49	51	57	33
Middle East	t	38	0	3	1	0	0	0	0
United Arab Emirates	t	38	0	3	1	0	0	0	0
Singapore	t	9	5	1	3	2	1	1	1
Switzerland	t	9	0	1	3	0	0	0	0
Thailand	t	38	35	4	12	6	11	17	1
United Kingdom	t	178	101	87	12	18	17	3	63
Other	t	3	4	0	0	0	1	1	1
Total	t	437	335	124	82	75	81	81	99
Value									
Refined	\$m	16 146	12 996	5 388	3 099	2 689	3 028	3 069	4 209
Imports									
Value									
Refined and unrefined bullion	\$m	11 250	7 730	3 898	1 636	1 677	1 984	1 585	2 484
Prices									
London AM fix	US\$/oz	874	1 092	908	922	960	1 102	1 110	1 195
Australia	A\$/oz	1 186	1 236	1 365	1 215	1 152	1 209	1 228	1 355

p Preliminary. s ABARE-BRS estimate.

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

13 Iron

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production									
Iron ore and concentrate a									
Western Australia	kt	341 543	410 207	77 503	96 090	103 517	104 601	100 385	101 704
South Australia	kt	6 915	8 275	1 855	1 420	2 059	1 989	2 022	2 204
Tasmania s	kt	2 331	2 360	572	557	640	515	566	639
Northern Territory	kt	2 207	2 549	558	777	746	671	476	657
Australia s	kt	352 996	423 391	80 487	98 844	106 962	107 776	103 449	105 204
Iron content s	kt	211 719	256 567	49 502	54 483	57 513	66 883	65 166	67 006
Iron and steel bs	kt	5 568	6 886	958	964	1 501	1 712	1 860	1 813
Exports									
Quantity									
Iron ore and pellets									
Pellets, sinters and briquettes	kt	1 422	2 073	540	300	461	380	515	716
Fines	kt	230 566	281 607	55 824	63 723	70 270	69 685	68 123	73 529
Lump and run of mine	kt	91 536	106 166	21 955	24 922	26 862	27 998	25 929	25 376
China c	kt	223 232	265 545	60 617	70 601	67 244	68 317	62 180	67 805
Chinese Taipei	kt	7 663	10 745	1 574	1 402	2 594	2 762	2 640	2 749
European Union 27	kt	3 055	1 575	151	185	335	0	893	347
Japan	kt	61 060	75 379	11 019	10 851	18 866	18 336	19 043	19 134
Korea, Rep. of	kt	28 309	36 405	4 805	5 906	8 555	8 603	9 659	9 587
Other	kt	204	197	153	0	0	45	152	0
Total iron ore and pellets	kt	323 524	389 846	78 319	88 945	97 594	98 063	94 567	99 622
Iron content	kt	201 096	242 177	48 685	55 271	60 635	60 961	58 754	61 827
Steel									
Iron and steel s	kt	1 741	1 550	413	488	280	337	430	502
Scrap	kt	1 742	1 605	456	597	411	415	335	444
Value									
Iron ore and pellets									
Pellets, sinters and briquettes	\$m	160	211	86	24	39	28	30	114
Fines	\$m	22 727	23 981	6 026	4 900	4 916	4 699	5 483	8 883
Lump and run of mine	\$m	11 352	10 290	2 773	2 129	2 225	2 205	2 288	3 572
Total	\$m	34 239	34 481	8 884	7 052	7 181	6 931	7 801	12 569
Steel									
Iron and steel s	\$m	1 363	1 107	218	207	201	225	285	396
Scrap	\$m	748	620	210	198	144	139	134	202
Total	\$m	2 111	1 727	428	405	345	364	419	598
Imports									
Quantity									
Iron ore d	kt	3 599	5 094	550	358	1 268	1 674	1 008	1 143
Iron and steel	kt	2 082	1 736	364	231	349	424	488	475
Ferroalloys	kt	54	71	9	6	12	15	18	25
Value									
Iron ore d	\$m	269	260	53	10	56	76	61	67
Iron and steel	\$m	3 191	1 888	635	345	379	463	511	535
Ferroalloys	\$m	181	118	29	16	21	27	37	33
Total	\$m	3 641	2 266	718	372	456	566	609	636
Prices									
Japanese negotiated e	USc/dmtu	144.67	97.00	144.67	97.00	97.00	97.00	97.00	171.10

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-BRS estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE-BRS.

14 Lead

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production									
Mine s									
Lead ore and concentrates	kt	842	836	172	209	211	202	204	219
Lead content of all minerals produced									
New South Wales	kt	73	77	20	21	18	21	18	20
Queensland	kt	439	437	84	108	110	105	110	111
Western Australia	kt	12	8	2	0	1	1	1	4
South Australia	kt	6	10	1	2	2	3	3	1
Tasmania	kt	31	26	7	8	8	6	7	6
Northern Territory	kt	35	36	6	10	10	11	7	7
Australia	kt	596	593	119	150	150	147	146	149
Smelter and refinery									
Refined lead (primary) a	kt	213	189	45	55	53	51	35	50
Domestic despatches									
Refined lead	kt	21	21	4	6	5	4	6	6
Exports									
Quantity									
Lead concentrate									
China	kt	145	222	16	63	40	71	30	81
European Union 27	kt	43	62	10	0	11	11	27	14
Japan	kt	49	65	5	22	16	27	5	16
Korea, Rep. of	kt	91	124	26	22	43	27	27	27
Other	kt	52	18	4	11	0	2	3	13
Total	kt	381	490	62	117	110	138	91	151
Lead bullion b									
United Kingdom	kt	147	151	29	47	25	42	34	50
Total	kt	147	151	29	47	25	42	34	50
Refined lead									
Chinese Taipei	kt	14	9	3	6	5	3	0	1
India	kt	47	40	11	17	13	9	9	9
Indonesia	kt	15	9	6	2	4	3	1	1
Korea, Rep. of	kt	35	48	7	11	14	16	12	5
Thailand	kt	14	11	0	3	3	5	2	2
Other	kt	136	69	34	32	21	18	13	16
Total	kt	261	186	62	70	60	55	37	35
Lead content of all primary materials exported cs									
	kt	645	657	126	182	154	184	134	185
Value									
Lead concentrate	\$m	645	978	146	189	240	229	201	308
Lead bullion	\$m	432	409	79	116	66	105	109	130
Refined lead	\$m	560	425	111	119	122	129	93	81
Total	\$m	1 637	1 812	336	424	429	463	402	518
Prices									
LME cash d	US\$/t	1 454	2 093	1 157	1 500	1 927	2 293	2 133	1 929
Australia e	A\$/t	2 269	2 656	2 017	2 258	2 441	2 787	2 778	2 618

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-BRS estimate.

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

15 Manganese

		2008-09	2009-10 p	quarter						
				2008-09		2009-10 p				
				Mar	Jun	Sep	Dec	Mar	Jun	
Production										
Manganese ore and concentrate										
Western Australia	s	kt	862	1 640	210	433	508	319	526	288
Northern Territory		kt	2 869	4 166	476	508	933	1 057	1 104	1 072
Australia	s	kt	3 730	5 807	686	941	1 441	1 376	1 629	1 360
Manganese content	s	kt	1 504	2 371	282	401	598	555	672	546
Exports a										
Quantity										
Manganese ore and concentrate		kt	3 226	5 659	706	1 106	1 422	1 421	1 461	1 355
Value										
Manganese ore and concentrate		\$m	1 406	1 394	250	195	237	317	394	447
Prices										
Japanese negotiated	b	US\$/mtu	11.20	3.50	11.20	4.80	4.37	6.50	7.42	8.33
		A\$/t	718.95	190.13	807.50	302.77	251.68	342.31	393.37	451.94

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

Sources: Australian Bureau of Statistics, Canberra; ABARE-BRS.

16 Nickel

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production as									
Mine									
Nickel content									
Western Australia	kt	182	164	45	39	40	41	39	43
Tasmania	kt	3	0	1	0	0	0	0	0
Australia	kt	185	164	46	39	40	41	39	43
Smelter and refinery									
Intermediate nickel	kt	21	33	6	4	5	12	11	5
Refined nickel, class 1 b	kt	95	108	28	31	30	34	27	17
Refined nickel, class 2 c	kt	15	6	3	3	1	1	2	2
Exports s									
Quantity									
Nickel d	kt	194	207	53	50	49	63	53	41
Value									
Ores and concentrates	\$m	795	732	153	118	138	174	190	229
Intermediate products e	\$m	206	525	55	51	96	196	157	76
Refined nickel, class 1 b	\$m	1 499	2 205	424	500	604	588	602	410
Refined nickel, class 2 c	\$m	205	120	48	35	24	20	26	49
Total	\$m	2 705	3 581	681	704	862	979	976	764
Imports									
Value									
Primary nickel products f	\$m	144	184	17	21	44	50	32	57
Prices									
LME cash g	US\$/t	13 322	19 390	10 475	12 943	17 607	17 543	20 039	22 372
	A\$/t	17 568	21 916	15 710	16 933	21 136	19 223	22 160	25 241

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. Also includes value of limonite ore used in the production of refined nickel products. g Average cash settlement price for melting grade refined nickel. p Preliminary. s ABARE-BRS estimate. Sources: Australian Bureau of Statistics, Canberra; International Nickel Study Group; London Metal Exchange; ABARE-BRS.

17 Petroleum

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production									
Field									
Crude oil	ML	20 107	17 187	4 955	4 369	4 589	4 367	4 187	4 045
Condensate	ML	7 680	8 896	1 896	2 108	2 292	2 330	2 158	2 117
Total	ML	27 787	26 083	6 851	6 477	6 882	6 696	6 344	6 162
Production rate	'000 bbl/day	485	456	479	453	481	468	443	431
LPG	ML	3 929	4 097	870	1 069	1 104	1 010	957	1 025
Ethane	Mm ³	395	429	75	111	118	103	99	109
Natural gas a	Mm ³	40 109	43 202	9 658	10 766	11 050	10 871	10 629	10 652
Refinery									
Refinery input	ML	38 808	37 642	9 615	9 792	9 738	9 541	9 228	9 135
Refinery output									
LPG	ML	1 477	1 204	266	271	272	280	333	318
Automotive gasoline	ML	17 159	16 803	4 300	4 372	4 258	4 204	4 062	4 279
Aviation gasoline	ML	105	104	31	27	25	22	29	27
Aviation turbine fuel	ML	5 494	5 352	1 367	1 341	1 321	1 415	1 355	1 262
Kerosine	ML	2	0	1	1	0	0	0	0
Heating oil	ML	69	35	16	16	24	- 0	6	5
Automotive diesel oil	ML	12 231	11 737	2 975	3 094	2 914	2 969	3 050	2 804
Industrial and marine									
diesel fuel	ML	13	3	4	3	3	0	- 0	1
Fuel oil (excl. refinery fuel)	ML	872	868	239	196	203	212	223	229
Lubricating oil basestock	ML	114	67	34	22	27	18	15	7
Bitumen	ML	1 294	693	317	326	296	150	132	115
Other products	ML	716	408	70	180	190	87	66	65
Total	ML	39 546	37 674	9 620	9 850	9 531	9 357	9 273	9 111
Sales									
LPG									
Automotive use b	ML	2 253	2 083	548	543	539	539	494	512
Total	ML	3 996	3 795	924	989	1 003	947	864	980
Automotive gasoline									
Premium unleaded	ML	1 728	1 843	448	423	437	471	466	469
Regular unleaded	ML	13 802	12 773	3 416	3 256	3 355	3 324	3 114	2 979
Other unleaded	ML	3 204	4 028	820	862	927	1 020	1 011	1 070
Total	ML	18 734	18 644	4 684	4 541	4 720	4 815	4 591	4 518
Aviation gasoline	ML	96	80	19	22	22	20	17	21
Aviation turbine fuel	ML	6 173	6 675	1 462	1 557	1 650	1 683	1 661	1 681
Kerosine	ML	25	29	6	8	7	15	3	3
Heating oil	ML	7	7	1	3	2	2	2	1
Automotive diesel oil	ML	18 587	19 044	4 316	4 718	4 679	4 973	4 483	4 908
Industrial and marine									
diesel fuel	ML	16	26	3	6	7	6	9	4
Fuel oil	ML	1 423	982	357	314	330	238	243	171
Lubricating oil and greases	ML	437	457	101	113	119	117	109	112
Bitumen	ML	809	814	221	208	184	236	207	188
Other products	ML	311	376	71	74	106	105	83	81
Total	ML	50 614	50 928	12 166	12 552	12 828	13 158	12 273	12 668

continued

17 Petroleum

continued

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Exports									
Quantity									
Crude oil and other refinery feedstock									
China	ML	1 009	2 180	177	460	373	675	287	845
Chinese Taipei	ML	403	261	87	16	14	117	14	117
Japan	ML	2 485	1 931	682	527	370	625	425	510
Korea, Rep. of	ML	4 395	3 710	1 370	1 034	822	980	540	1 368
New Zealand	ML	321	235	70	105	66	58	110	2
Singapore	ML	3 543	3 835	897	824	1 344	868	813	810
United States	ML	1 421	623	148	0	145	174	91	213
Other	ML	3 011	5 212	533	798	989	1 107	1 506	1 608
Total	ML	16 588	17 986	3 964	3 765	4 123	4 604	3 786	5 473
LNG s	Mt	15.41	17.87	4.15	4.04	4.66	4.45	4.66	4.10
LPG	ML	2 500	2 766	622	621	846	761	638	522
Refinery products									
Automotive gasoline	ML	244	225	46	90	46	82	61	35
Aviation turbine fuel	ML	106	72	29	34	15	30	19	7
Diesel fuel c	ML	357	182	137	71	43	10	54	75
Fuel oil	ML	188	109	48	20	44	11	4	50
Aviation gasoline	ML	56	33	33	7	5	9	11	8
Lubricants	ML	183	163	43	69	54	64	26	19
Other products	ML	29	21	7	5	3	4	9	6
Total	ML	1 164	805	343	296	211	211	182	201
Ships' and aircraft stores									
Aviation turbine fuel	ML	1 909	1 985	473	489	496	496	496	496
Fuel oil	ML	275	260	72	69	65	65	65	65
Other products	ML	33	41	7	7	15	11	8	7
Total	ML	2 217	2 285	552	565	576	572	569	568
Value									
Crude oil and other refinery feedstock									
	\$m	8 757	9 515	1 620	1 667	2 089	2 350	2 017	3 059
LNG	\$m	10 079	7 804	2 483	1 591	1 713	1 840	2 219	2 032
LPG	\$m	1 044	1 108	215	198	292	297	285	234
Refinery products									
Automotive gasoline	\$m	171	139	29	58	28	45	41	25
Aviation turbine fuel	\$m	69	41	15	19	9	15	12	5
Diesel fuel c	\$m	225	128	76	44	27	11	34	56
Fuel oil	\$m	96	54	19	12	24	5	1	23
Aviation gasoline	\$m	45	30	22	6	5	8	9	8
Lubricants	\$m	148	150	34	42	40	41	35	35
Other products	\$m	34	22	10	7	4	4	7	7
Total	\$m	788	564	205	188	136	129	139	159
Total	\$m	20 667	18 991	4 524	3 644	4 231	4 616	4 660	5 484
Ships' and aircraft stores									
Aviation turbine fuel	\$m	1 355	1 135	305	235	263	271	293	308
Fuel oil	\$m	142	140	47	31	32	33	37	38
Other products	\$m	39	40	6	7	16	11	7	6
Total	\$m	1 537	1 315	358	273	311	315	337	352

continued

17 Petroleum

continued

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Imports									
Quantity									
Crude oil and other refinery feedstock									
Indonesia	ML	3 666	4 178	861	1 241	1 123	1 147	951	957
Malaysia	ML	4 461	5 319	1 228	864	675	1 220	1 568	1 856
Middle East									
Saudi Arabia	ML	775	478	243	230	169	122	146	40
United Arab Emirates	ML	2 918	3 846	572	1 091	1 201	966	734	946
Other	ML	40	43	0	0	43	0	0	0
Total Middle East	ML	3 734	4 367	814	1 321	1 413	1 088	880	986
New Zealand	ML	2 313	2 569	453	564	520	671	560	817
Papua New Guinea	ML	1 349	1 580	319	334	390	600	369	221
Singapore	ML	555	605	111	101	169	167	143	125
Vietnam	ML	5 277	3 904	1 144	1 417	957	807	1 009	1 131
Other	ML	2 947	4 762	640	492	1 251	965	1 372	1 174
Total	ML	24 302	27 284	5 571	6 334	6 499	6 665	6 852	7 268
Natural gas	kt	4 752	4 149	1 191	1 141	1 282	1 069	1 025	773
Refined products									
LPG	ML	1 002	1 067	172	346	321	280	261	205
Automotive gasoline	ML	4 087	3 894	1 467	734	1 094	1 225	849	726
Aviation turbine fuel	ML	2 026	2 169	526	579	595	570	434	570
Diesel fuel c	ML	8 246	8 684	1 661	2 138	2 118	2 405	1 924	2 237
Fuel oil	ML	1 682	1 797	444	354	400	454	426	518
Lubricants	ML	369	415	94	78	91	113	101	109
Other products	ML	2 285	1 966	576	552	534	531	504	397
Total	ML	19 697	19 993	4 940	4 780	5 154	5 577	4 500	4 762
Value									
Crude oil and other refinery feedstock									
	\$m	14 727	15 030	2 380	2 975	3 573	3 642	3 702	4 114
Natural gas	\$m	2 166	1 219	850	377	326	330	286	276
Refined products									
LPG	\$m	382	405	60	108	102	108	110	84
Automotive gasoline	\$m	2 784	2 453	861	438	688	721	562	481
Aviation turbine fuel	\$m	1 393	1 282	275	316	350	324	259	349
Diesel fuel c	\$m	6 314	5 280	961	1 213	1 259	1 386	1 180	1 455
Fuel oil	\$m	867	910	177	161	199	226	216	268
Lubricants	\$m	629	519	146	113	116	137	127	139
Other products	\$m	2 927	1 683	1 033	532	433	453	408	389
Total	\$m	13 129	11 312	2 662	2 503	2 821	3 026	2 577	2 889
Total	\$m	30 021	27 562	5 893	5 855	6 720	6 998	6 564	7 279
Prices									
Dubai	US\$/bbl	68.50	74.19	44.53	59.34	67.98	75.10	75.91	77.93
West Texas intermediate	US\$/bbl	70.29	75.15	43.14	59.61	68.14	76.00	78.84	77.89
Brent	US\$/bbl	68.75	74.51	44.52	58.88	68.13	74.57	76.72	78.68
Tapis	US\$/bbl	74.38	77.42	48.11	61.36	71.78	77.42	79.60	81.04
World trade weighted average	US\$/bbl	67.44	73.35	42.64	57.76	67.56	73.82	75.71	76.48
	A\$/bbl	87.75	83.06	64.28	75.70	81.14	81.06	83.70	86.39

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-BRS 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-BRS.

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 are collected via voluntary industry reporting by the Department of Resources, Energy and Tourism.

The Department of Resources, Energy and Tourism and ABARE-BRS have conducted a review of the Australian Petroleum Statistics. The purpose of the review was to identify ways of improving the quality of Australia's petroleum data and the management of petroleum data collection. Issues affecting the coverage and quality of petroleum data that were identified in the review are currently being addressed. Table 18 will be updated once these issues are resolved.

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
June quarter 2010 ^p								
LPG ^b								
Automotive use ^c	150	217	43	42	54	3	2	512
Total	315	338	136	76	91	16	8	980
Automotive gasoline								
Premium unleaded	172	90	105	59	23	14	6	469
Regular unleaded	739	870	606	388	265	80	32	2 979
Other unleaded ^d	557	138	309	36	27	3	0	1 070
Total	1 467	1 098	1 020	483	314	97	38	4 518
of which sales to retailers	1 086	755	596	387	207	37	19	3 087
Aviation gasoline	4	3	6	4	1	0	2	21
Aviation turbine fuel	751	277	362	197	51	4	39	1 681
Kerosine	1	1	0	0	0	0	0	3
Heating oil	0	1	0	0	0	1	0	1
Automotive diesel oil	1 014	778	1 370	1 128	347	86	185	4 908
of which sales to retailers	391	312	332	215	78	8	22	1 358
Industrial and marine diesel fuel	3	0	0	0	0	0	0	4
Fuel oil ^e	47	63	15	46	0	0	0	171
Lubricating oil and greases	35	26	25	16	7	1	2	112
Bitumen	42	35	76	15	17	2	0	188
Other products ^f	60	9	6	3	3	0	0	81
Total	3 741	2 628	3 017	1 969	831	208	274	12 668
2009-10 ^p								
LPG ^b								
Automotive use ^c	605	880	184	177	219	12	7	2 083
Total	1 205	1 270	559	310	358	65	28	3 795
Automotive gasoline								
Premium unleaded	627	370	424	238	102	59	23	1 843
Regular unleaded	3 467	3 562	2 573	1 583	1 111	351	126	12 773
Other unleaded ^d	1 977	564	1 229	144	103	10	0	4 028
Total	6 071	4 496	4 226	1 966	1 316	420	148	18 644
of which sales to retailers	4 914	3 509	3 038	1 702	955	187	83	14 388
Aviation gasoline	16	11	22	15	6	2	8	80
Aviation turbine fuel	3 011	1 103	1 432	755	195	27	153	6 675
Kerosine	2	4	18	1	0	0	2	29
Heating oil	1	1	0	0	0	5	0	7
Automotive diesel oil	4 042	3 032	5 338	4 233	1 331	374	694	19 044
of which sales to retailers	1 544	1 246	1 336	786	305	32	79	5 327
Industrial and marine diesel fuel	21	2	2	0	0	0	0	26
Fuel oil ^e	298	295	67	180	0	25	118	982
Lubricating oil and greases	148	103	104	61	30	6	7	457
Bitumen	177	156	327	74	66	14	1	814
Other products ^f	297	35	22	13	8	0	1	376
Total	15 289	10 509	12 116	7 608	3 310	938	1 159	50 928

^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

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production a									
Imports									
Quantity									
Phosphate rock									
China	kt	15	1	0	0	0	0	0	0
Morocco	kt	284	73	0	27	0	73	0	0
Nauru	kt	86	0	0	0	0	0	0	0
Other	kt	154	11	0	0	0	0	11	0
Total	kt	540	85	1	28	0	73	11	0
Phosphates									
Diammonium b	kt	214	193	64	119	2	0	96	94
Monammonium c	kt	455	433	175	179	36	30	201	166
High analysis d	kt	107	160	43	21	0	14	50	95
Value									
Phosphate rock	\$m	193	10	0	6	0	8	1	0
Phosphates									
Diammonium b	\$m	140	102	36	66	1	0	51	49
Monammonium c	\$m	337	203	107	97	16	11	90	87
High analysis d	\$m	72	36	20	10	0	3	14	20
Prices									
Australia e	A\$/t	384.89	253.11	546.10	206.63	475.89	115.14	116.65	304.76

a Production details are no longer available. 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-BRS estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE-BRS.

21 Salt

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production s									
Australia a	kt	11 311	9 571	2 826	2 616	2 544	2 330	2 342	2 354
Exports s									
Quantity									
Bulk, bagged and table	kt	10 978	11 185	2 748	2 762	2 775	2 789	2 803	2 817
Value									
Bulk, bagged and table	\$m	237	247	59	60	61	61	62	63
Prices s									
Australia b	A\$/t	21.60	22.09	21.63	21.76	21.89	22.02	22.15	22.29

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

Sources: Australian Bureau of Statistics, Canberra; ABARE-BRS.

22 Silver

		2008-09	2009-10 ^p	quarter					
				2008-09		2009-10 ^p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production									
Mine s									
Silver content of all minerals produced									
New South Wales	t	67	82	17	17	20	21	19	22
Queensland	t	1 467	1 467	278	360	327	378	402	360
Western Australia	t	73	55	15	3	12	13	8	22
South Australia	t	30	20	8	7	7	8	1	5
Tasmania	t	99	78	25	29	23	20	17	18
Northern Territory	t	40	46	6	12	12	14	10	10
Australia	t	1 775	1 749	349	429	402	453	458	436
Refinery									
Refined silver	t	751	701	186	195	189	185	156	170
Exports									
Quantity									
Refined silver bullion	t	423	420	109	120	105	122	107	86
Value									
Refined silver ^a	\$m	245	254	58	66	56	72	67	58
Imports									
Value									
Refined silver bullion	\$m	223	107	98	12	18	51	32	7
Prices									
World ^b	US\$/oz	1 289	1 688	1 260	1 376	1 469	1 757	1 693	1 833
Australia ^c	A\$/kg	553	609	608	579	564	603	602	667

^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-BRS estimate.

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

23 Tin

		2008-09	2009-10 ^p	quarter					
				2008-09		2009-10 ^p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production									
Mine									
Tin content of all minerals produced									
Western Australia ^s	t	165	13 562	38	38	3 781	3 781	3 000	3 000
Tasmania	t	3 880	6 267	1 439	1 361	1 404	1 427	1 763	1 673
Australia ^s	t	4 045	19 829	1 477	1 399	5 185	5 208	4 763	4 673
Exports									
Quantity									
Tin concentrate	t	9 607	11 922	3 241	3 029	3 476	2 680	3 070	2 696
Refined tin	t	85	29	80	4	4	6	17	1
Tin content of primary materials exported ^{as}									
	t	4 159	6 031	1 651	1 483	1 700	1 252	1 647	1 432
Value									
Tin concentrate	\$m	69	101	25	24	26	21	26	28
Refined tin	\$m	1	0	0	0	0	0	0	0
Total	\$m	70	101	26	24	26	21	26	28
Imports									
Quantity									
Refined tin	t	529	752	122	130	165	204	235	147
Value									
Refined tin	\$m	11	14	2	2	3	3	4	3
Prices									
LME ^b	US\$/t	13 576	16 202	11 024	13 540	14 576	15 164	17 226	17 842

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

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

24 Titanium minerals

		2008-09	2009-10 ^p	quarter					
				2008-09		2009-10 ^p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production ^s									
Ilmenite concentrate									
New South Wales	kt	270	300	85	85	75	75	75	75
Queensland	kt	108	20	8	6	5	5	5	5
Victoria	kt	7	9	6	1	3	3	2	2
South Australia	kt	35	40	10	10	10	10	10	10
Western Australia	kt	1 313	851	268	322	222	239	217	174
Northern Territory	kt	1	0	0	0	0	0	0	0
Australia	kt	1 734	1 220	378	424	315	332	309	265
Leucoxene concentrate									
New South Wales	kt	92	92	23	23	23	23	23	23
Victoria	kt	6	8	2	1	1	3	2	2
South Australia	kt	8	9	2	2	2	2	2	2
Western Australia	kt	58	55	15	14	13	13	13	15
Northern Territory	kt	1	0	0	0	0	0	0	0
Australia	kt	164	163	43	40	40	42	40	42
Rutile concentrate									
New South Wales	kt	80	80	20	20	20	20	20	20
Victoria	kt	63	102	18	14	15	19	27	40
Queensland	kt	54	35	14	5	5	5	10	15
South Australia	kt	6	10	2	2	2	2	3	3
Western Australia	kt	104	97	25	26	22	27	27	21
Australia	kt	308	323	79	66	63	73	88	99
Synthetic rutile	kt	716	550	190	153	135	138	137	140
Titanium dioxide pigment	kt	221	266	57	60	63	68	68	68
Exports									
Quantity									
Ilmenite concentrate ^a	kt	1 538	1 763	389	567	396	426	541	399
Leucoxene concentrate	kt	20	18	2	3	4	4	4	5
Rutile concentrate ^s	kt	550	575	148	177	122	140	147	166
Synthetic rutile ^s	kt	512	513	127	128	130	130	119	134
Titanium dioxide pigment	kt	141	181	26	55	52	46	41	42
Value									
Ilmenite concentrate ^a	\$m	171	197	42	61	44	48	61	45
Leucoxene concentrate	\$m	12	11	1	2	3	3	3	3
Rutile concentrate ^s	\$m	335	382	98	105	82	84	100	116
Synthetic rutile ^s	\$m	258	269	68	62	70	62	64	74
Titanium dioxide pigment	\$m	396	448	85	144	128	109	101	110
Prices ^b									
Ilmenite concentrate									
Bulk ^s	A\$/t	111	112	108	108	110	112	112	113
Leucoxene concentrate									
Bulk	A\$/t	na	na	na	na	na	na	na	na
Bagged	A\$/t	598	na	625	602	624	na	na	na
Rutile concentrate									
Bagged	A\$/t	1 025	973	625	602	624	627	625	625
Titanium dioxide pigment	A\$/t	2 810	2 477	3 224	2 635	2 447	2 368	2 472	2 638

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

Sources: Australian Bureau of Statistics, Canberra; ABARE-BRS.

25 Uranium

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production									
Mine									
Uranium oxide (U ₃ O ₈)	t	10 311	7 156	2 252	2 790	2 685	1 638	1 142	1 691
Uranium (U content)									
South Australia	t	3 929	2 441	880	1 110	1 085	422	203	731
Northern Territory	t	4 815	3 627	1 029	1 256	1 191	967	766	703
Australia	t	8 744	6 068	1 910	2 366	2 277	1 389	968	1 434
Exports a									
Quantity									
Uranium oxide (U ₃ O ₈)	t	10 114	7 156 s	2 172	2 844	2 685 s	1 638 s	1 142 s	1 691 s
Value									
Uranium oxide (U ₃ O ₈)	\$m	990	751 s	293	304	291 s	182 s	116 s	162 s
Prices									
Uranium oxide (U ₃ O ₈)									
Industry spot b	US\$/lb	51.25	43.81	45.00	48.33	45.25	46.50	42.08	41.42
Australia c	A\$/kg	97.92	104.96 s	134.93	106.94	108.21 s	111.26 s	101.48 s	96.04 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-BRS estimate.

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

26 Zircon

		2008-09	2009-10 p	quarter					
				2008-09		2009-10 p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production s									
Zircon concentrate									
New South Wales	kt	56	89	14	18	22	22	22	22
Victoria	kt	92	92	27	14	15	15	24	38
Queensland	kt	39	45	11	3	11	10	12	12
South Australia		48	94	13	13	13	13	20	49
Western Australia	kt	296	178	81	65	52	45	44	38
Northern Territory	kt	3	0	0	0	0	0	0	0
Australia	kt	534	497	146	112	112	104	121	159
Exports s									
Quantity									
Zircon concentrate	kt	685	748	174	177	193	200	184	171
Value									
Zircon concentrate	\$m	540	370	134	142	118	97	74	81
Prices a									
Zircon concentrate									
All grades – bagged	A\$/t	1 174	1 049	1 419	1 283	1 207	1 046	997	1 014

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

Sources: Australian Bureau of Statistics, Canberra; ABARE-BRS.

27 Zinc

		2008-09	2009-10 ^p	quarter					
				2008-09		2009-10 ^p			
				Mar	Jun	Sep	Dec	Mar	Jun
Production									
Mine s									
Zinc ore and concentrates	kt	2 643	2 581	543	662	704	534	625	718
Zinc content of all minerals produced									
New South Wales	kt	122	102	27	29	25	27	24	27
Queensland	kt	897	858	188	244	239	143	230	246
Western Australia	kt	142	109	29	10	27	24	10	47
South Australia	kt	17	23	2	5	6	7	6	4
Tasmania	kt	87	84	21	23	24	21	20	18
Northern Territory	kt	145	186	23	46	47	51	46	43
Australia	kt	1 411	1 362	291	357	369	273	336	385
Smelter and refinery									
Refined zinc (primary)	kt	506	515	126	132	137	130	118	130
Domestic despatches									
Refined zinc	kt	71	71	14	16	18	19	17	17
Exports									
Quantity									
Zinc concentrates									
Belgium-Luxembourg	kt	32	26	0	0	13	13	0	0
China	kt	945	1 154	202	305	307	414	170	263
Germany	kt	0	11	0	0	0	0	0	11
Japan	kt	273	287	38	62	84	94	43	66
Korea, Rep. of	kt	291	333	47	64	52	99	95	87
Netherlands	kt	231	217	22	62	45	0	72	99
Spain	kt	146	116	17	25	0	0	31	85
Other	kt	184	140	49	47	34	20	33	52
Total	kt	2 101	2 282	376	564	535	640	444	663
Refined zinc									
Chinese Taipei	kt	59	91	5	16	21	21	21	28
Hong Kong, China	kt	57	61	12	16	16	17	12	17
Indonesia	kt	10	20	2	3	3	5	6	6
Malaysia	kt	71	26	19	6	7	5	7	8
New Zealand	kt	9	7	2	2	3	3	1	1
United States	kt	0	21	0	0	0	0	21	0
Other	kt	244	200	64	95	58	57	35	50
Total	kt	451	426	104	138	107	107	102	109
Zinc content of all primary materials exported ^{as}									
	kt	1 471	1 488	291	399	349	384	318	437
Value									
Zinc concentrates	\$m	935	1 241	170	215	226	308	274	432
Refined zinc	\$m	923	977	193	245	209	237	259	273
Total	\$m	1 858	2 218	363	460	435	545	533	705
Prices									
LME cash ^b	US\$/t	1 401	2 001	1 174	1 473	1 530	2 203	2 290	1 980
Australia ^c	A\$/t	2 136	2 540	1 999	2 177	2 258	2 499	2 741	2 661

^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-BRS estimate.

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