

australian mineral statistics

december 2007 quarter

12 march 2008

abare.gov.au

© Commonwealth of Australia 2008

This work is copyright. The *Copyright Act 1968* permits fair dealing for study, research, news reporting, criticism or review. Selected tables may be reproduced for such purposes provided acknowledgment of the source is included. Major extracts or the entire document may not be reproduced by any process without the written permission of the Executive Director, ABARE.

ISSN 1447-1159

ABARE 2008, *Australian Mineral Statistics*, December quarter 2007, Canberra, 12 March.

australian bureau of agricultural and resource economics

postal address gpo box 1563 canberra 2601 australia

location 7b london circuit act 2601
levels 2 and 3

switchboard +61 2 6272 2000

facsimile +61 2 6272 2001

internet abare.gov.au

ABARE is a professionally independent government economic research agency.

ABARE project 1546

contents

main features	1
---------------	---

graphs

australian energy and mineral exports	2
resources sector indicators	10
mineral resources prices	16

tables

	calendar year export summary	8
	calendar year production summary	9
1	production summary	11
2	volume of mine production indexes	12
3	exports summary	12
4	mineral resources export unit returns	13
5	imports summary	14
6	private mineral exploration expenditure	14
7	mineral resources prices	15
8	aluminium	18
9	coal	19
10	copper	21
11	diamond and other gemstones	22
12	gold	23
13	iron	24
14	lead	25
15	manganese	26
16	nickel	27
17	petroleum	28
18	petroleum production, by basin	31
19	sales of petroleum products, by state marketing area	32
20	phosphate	33
21	salt	33
22	silver	34
23	tin	35
24	titanium	36
25	uranium	37
26	zircon	37
27	zinc	38

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 due to the rounding of components.

zero is used to denote nil or a negligible amount.

p denotes a preliminary figure.

s denotes an ABARE estimate.

common abbreviations and conversions

kg	kilogram	2.20462 lb (pounds)
t	tonne	1000 kilograms
kt	kilotonne	1000 tonnes
Mt	megatonne	1 000 000 tonnes
mtu	metric ton unit	10 kilograms
ct	metric carat	
L	litre	1.761 pints
kL	kilolitre	1000 litres
ML	megalitre	1 000 000 litres
Mm ³	million cubic metres	1 000 000 cubic metres
bbl	barrel	159 litres
oz	troy ounce	0.031 kilograms
\$m	million dollars (Australian)	
fob	free on board	
for	free on rail	
fort	free on truck	
cif	cost, insurance and freight	

main features

overview

prices

In the December quarter 2007, the index of export prices of Australian mineral resources (export unit returns) increased by nearly 2 per cent compared with the September quarter 2007. Prices for energy minerals rose by around 3 per cent, primarily because of higher oil prices. Prices for metals and other minerals increased by 0.3 per cent as higher gold and silver prices were offset by declines in prices for most base metals.

Compared with the December quarter 2006, the December quarter 2007 index was nearly 4 per cent lower, with higher prices for energy commodities (up 0.1 per cent year on year), more than offset by a decline in prices for metals and other minerals (down nearly 6 per cent year on year). Prices for metals and other minerals have declined relative to the December quarter 2006 as a result of global supply increases and uncertainty surrounding the outlook for the US economy. The stronger Australian dollar also contributed to the overall fall in Australia's export unit returns.

exports

Total earnings from Australia's mineral resources exports fell slightly to \$26.7 billion in the December quarter 2007, a decrease of \$34 million or 0.1 per cent compared with the previous quarter. Contributing to the fall in export earnings was the negative effect of a stronger Australian dollar, weaker metals and other minerals prices and falls in volumes for some commodities.

The commodities that recorded significant increases in export earnings were: crude oil, up \$305 million (14 per cent) to \$2539 million; liquefied natural gas, up \$257 million (22 per cent) to \$1430 million; lead, up \$184 million (35 per cent) to \$709 million; iron ore and pellets, up \$132 million (3 per cent) to \$4284 million; thermal coal, up \$97 million (6 per cent) to \$1791 million; and manganese ore, up \$49 million (23 per cent) to \$258 million. The higher earnings reflect both higher export volumes and prices for these commodities.

The commodities that recorded significant declines in export earnings in the December quarter 2007 were: refined gold, down \$228 million (8 per cent) to \$2501 million; aluminium, down \$222 million (16 per cent) to \$1168 million; copper, down \$196 million (12 per cent) to \$1477 million; zinc, down \$186 million (16 per cent) to \$954 million; nickel, down \$142

australian energy and mineral exports

percentage change between september and december quarters 2007

	export volume	export value	prices
crude oil ^a	▲ 1%	▲ 14%	▲ 16%
lng	▲ 9%	▲ 22%	▲ 12%
lpg	▼ -23%	▼ -10%	▲ 17%
metallurgical coal	▲ 3%	▼ -1%	▼ -4%
refinery products	▼ -6%	▼ -4%	▲ 2%
thermal coal	▲ 4%	▲ 6%	▲ 7%
uranium oxide (U ₃ O ₈) ^a	▲ 24%	▼ -9%	▼ -9%
alumina	▲ 3%	▼ -7%	▼ -10%
aluminium (ingot metal) ^a	▼ -5%	▼ -16%	▼ -4%
bauxite	▼ -6%	▼ -9%	▼ -4%
copper ^a	▼ -4%	▼ -12%	▼ -6%
diamonds	▲ 23%	▼ 0%	▼ -19%
gold ^a	▼ -17%	▼ -8%	▲ 16%
iron and steel	▼ -9%	▼ -2%	▲ 8%
iron ore and pellets	▲ 7%	▲ 3%	▼ -3%
lead ^a	▲ 10%	▲ 35%	▲ 20%
manganese ore and concentrate	▲ 8%	▲ 24%	▲ 14%
nickel ^a	▼ -1%	▼ -9%	▼ -3%
salt	▲ 22%	▲ 17%	▼ -4%
silver ^a	na	▼ -6%	▲ 12%
tin ^a	▲ 31%	▼ -15%	▲ 9%
titanium and zircon	▲ 5%	▲ 3%	▼ -3%
zinc ^a	▲ 6%	▼ -16%	▼ -19%

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

million (10 per cent) to \$1353 million; and metallurgical coal, down \$44 million (1 per cent) to \$3313 million.

The decline in the value of gold exports reflects lower volumes shipped, while the fall in the value of aluminium, copper and nickel exports is a result of lower export volumes (total metal content in ores, concentrates and refined metal) and lower prices received. The decline in zinc and metallurgical coal exports was driven largely by lower prices received.

production

Production results was higher in the December quarter, with nearly two-thirds of Australia's major minerals and energy commodities increasing production from the previous quarter. There were production increases for tin ores and concentrate (41 per cent), blister copper (35 per cent), refined copper (32 per cent), diamonds (23 per cent), refined gold (19 per cent), copper ores and concentrate (19 per cent), uranium oxide (18 per cent), refined lead (16 per cent), rutile concentrate (14 per cent), iron ore (10 per cent) and zinc ores and concentrate (9 per cent).

Higher tin production was the result of improved performance and higher metal grades at Metals X's Collingwood tin mine. The increase in blister copper production was the result of record production from Olympic Dam in the December quarter. Refined copper production increased because of higher production from the Townsville copper refinery and Olympic Dam. The commencement of production at the Lady Annie SX-EW (solvent extraction–electrowinning) project also contributed to higher refined copper output.

The increase in diamond production reflected higher output during the quarter at Rio Tinto's Argyle mine in Western Australia. Production from the Argyle mine has fluctuated as the company makes the transition from opencut mining to underground mining. Higher secondary production using gold scrap sourced from overseas contributed to the increase in refined gold production. Australian production of uranium oxide increased by 18 per cent to 2921 tonnes in the December quarter compared with the previous quarter, in line with significantly higher production from the Ranger and Olympic Dam uranium mines. Refined lead production increased by 16 per cent in the December quarter compared with the previous quarter because of higher output from the Port Pirie lead smelter.

Rutile concentrate production increased as Consolidated Rutile's output improved following an upgrade to the rutile circuit. In addition, Iluka Resources' Douglas mine in Victoria continued to ramp up production after being commissioned during 2007. Production of zinc ores and concentrate increased during the quarter, supported by a substantial

increase in production from Perilya's Flinders zinc project. Iron ore production grew because of higher output from BHP Billiton and Rio Tinto following the completion of mine expansion projects.

There were significant declines in production in the December quarter 2007 compared with the previous quarter of crude oil and condensate (5 per cent), natural gas (6 per cent), refined nickel class 1 (7 per cent), saleable black coal (7 per cent), intermediate nickel (8 per cent), naturally occurring LPG (13 per cent) and refined silver (21 per cent).

Lower production of LPG, natural gas and crude oil and condensate was the result of a combination of equipment failure and natural field decline. Production of black coal was lower in the December quarter 2007 than in the previous quarter because output from Australian coal mines continued to be constrained by ongoing rail and port constraints in Queensland and New South Wales. Wet weather in Queensland in late December also affected coal production at several mines. The fall in production of refined nickel class 1 and intermediate nickel was the result of scheduled shutdowns at the Kalgoorlie nickel smelter in Western Australia and the Yabulu nickel refinery in Queensland.

commodity highlights

energy

oil and gas

In the December quarter, Australia's oil production totalled 6.4 gigalitres, 5 per cent less than in the September quarter and 12 per cent lower year on year. Gas production was also lower in the December quarter, with naturally occurring LPG production declining by 13 per cent to 1002 megalitres and natural gas declining by 6 per cent to 10 034 million cubic metres. The lower oil and gas production reflects a combination of equipment failure and natural field decline. At the Mutineer-Exeter field, December quarter production was down as a result of electrical damage affecting the subsea pumps. Repairs are not expected to be completed until April 2008. Production at the Laminaria-Corallina field declined in the December quarter because of a gas leak in the Corallina riser. Repairs are scheduled to be completed in the third quarter of 2008. Production from the Cooper Basin oil field in South Australia was lower as a result of natural field decline. However, some of these production losses were partly offset by increased production from the Enfield, Cossack-Pioneer and Stybarrow fields located off the coast of north west Australia.

Export earnings from petroleum products increased by 13 per cent to \$4586 million in the December quarter compared with the September

quarter. Higher prices, particularly for crude oil, were the main reason for the increase in export earnings.

coal

Australia's export earnings from black coal increased by 1 per cent in the December quarter compared with the previous quarter as higher thermal coal export earnings more than offset a decline in earnings from metallurgical coal exports. The decline in metallurgical coal export earnings reflected lower export unit values because of an appreciation of the Australian dollar. In contrast, the growth in thermal coal export earnings reflected higher prices received through increased spot market sales.

Growth in the volume of Australia's black coal production and exports continues to be limited by infrastructure constraints. For example, Rio Tinto cited reduced transport allotments in Queensland and reduced port throughput at Newcastle as the primary reason for reducing its coal production.

uranium

Production of uranium oxide increased by 448 tonnes (18 per cent) in the December quarter 2007 compared with the September quarter. Substantially higher production from the Ranger and Olympic Dam uranium mines contributed to this increase. However, earnings from uranium oxide exports declined by 9 per cent in the December quarter as lower prices more than offset the revenue effects of higher export volumes.

metals and other minerals

iron ore

Australian iron ore production was 10 per cent higher in the December quarter than in the September quarter owing to the startup of several mine expansions and new mines. During the quarter, BHP Billiton commissioned the Rapid Growth 3 project and Rio Tinto produced the first ore from the Hope Downs joint venture. Export earnings from iron ore and pellets increased by 3 per cent in the December quarter, underpinned by higher production and export volumes.

gold

Refined gold production increased substantially in the December quarter from that in the September quarter because of higher secondary production using gold scrap sourced from overseas. Gold mine production was also slightly higher in the December quarter than in the previous quarter. This reflects primarily higher ore grades at Newcrest Mining's

New South Wales operations. Export earnings from gold declined in the December quarter as lower export volumes more than offset higher prices.

copper

Copper mine production was higher in the December quarter than in the September quarter, with higher production from a number of Australia's largest copper mines. The mines that made the largest contribution to higher copper mine production were Mount Isa, Olympic Dam and Nifty. Despite higher production in the December quarter, export earnings from copper decreased, reflecting lower export volumes (total metal content of ores, concentrates and refined metal) and export prices.

nickel

Nickel mine production remained relatively unchanged in the December quarter from that in the September quarter. However, production of refined nickel class 1 and intermediate nickel declined by 7 per cent and 8 per cent respectively because of scheduled shutdowns at the Kalgoorlie nickel smelter in Western Australia and the Yabulu nickel refinery in Queensland. The value of nickel exports declined by almost 10 per cent in the December quarter compared with the previous quarter, mainly because nickel prices continued to fall from record highs achieved earlier in the year.

zinc

Zinc mine production increased by 35 000 tonnes (9 per cent) in the December quarter compared with the September quarter. The main contributor was Perilya's Flinders zinc mine in South Australia that increased production by 60 000 tonnes. Partly offsetting the higher production from Perilya's Flinders zinc mine was lower production following a fire at Xstrata's Mount Isa zinc concentrator in September and lower production from Perilya's Broken Hill zinc mine because of a minor earthquake. Export earnings from zinc declined by 16 per cent during the December quarter with significantly lower zinc prices more than offsetting a rise in export volumes.

mineral sands

Production of ilmenite concentrate, rutile concentrate, leucoxene, synthetic rutile and zircon increased in the December quarter from the September quarter as a number of recently commissioned mines continued to ramp up to production capacity. These operations include Iluka Resource's Douglas operations in New South Wales (rutile and zircon); Matilda Minerals' Tiwi Island operations (rutile and zircon); and Bemax's Murray Basin operations in New South Wales (leucoxene,

ilmenite and rutile). Rutile production was also higher because of the benefits of a dry mill rutile circuit upgrade at Consolidated Rutile.

australian minerals sector in 2007

Earnings from Australia's mineral resources exports increased by 5 per cent to \$106.6 billion in 2007 as higher export volumes and US dollar prices for most commodities more than offset a significant appreciation of the Australian dollar throughout the year.

The main contributors to higher mineral resources export earnings in 2007 were nickel (up \$2004 million), gold (up \$1925 million), iron ore and pellets (up \$1658 million), crude oil (up \$1432 million) and lead (up \$722 million). Export earnings for these commodities increased substantially because of higher prices received and, with the exception of lead, higher export volumes.

The largest decline in export earnings in 2007 compared with 2006 was metallurgical coal, declining by \$2321 million (14 per cent). The main reason for the decrease in metallurgical coal export earnings was a 16 per cent decline in US dollar contract prices that took effect from April 2007. The stronger Australian dollar also magnified the effect of the decline in US dollar prices. Other commodities with significant decreases in export earnings in 2007 were copper (down \$257 million), alumina (down \$140 million), thermal coal (down \$132 million) and diamonds (down \$98 million).

Australia's production of mineral resources was generally higher in 2007 than in 2006. This is consistent with the increased investment in the minerals and energy sector over the past five years in response to higher prices. For example, iron ore production increased by 9 per cent in 2007 to 299 million tonnes following the commissioning of iron ore projects by BHP Billiton and Rio Tinto. Other significant production increases in 2007 were in tin ores and concentrates (up 41 per cent), rutile concentrates (up 35 per cent), zircon concentrates (up 23 per cent), leucoxene concentrates (up 22 per cent) and manganese (up 16 per cent).

ABARE's most recent forecasts of minerals production, exports and prices for the period from 2007-08 until 2012-13, and analysis of key factors affecting the outlook for minerals and energy commodities, were published in the March issue of ABARE's quarterly journal, *Australian Commodities*, released on 4 March 2007.

calendar year export summary

australian minerals and energy sector

		export volume				export value	
		2006	2007			2006	2007
bauxite	kt	5 510	7 157	bauxite	\$m	134	197
alumina ^d	kt	14 986	15 184	alumina ^d	\$m	6 082	5 943
aluminium (ingot metal)	kt	1 618	1 659	aluminium (ingot metal)	\$m	5 464	5 367
coal, black				coal, black			
– metallurgical	Mt	124	138	– metallurgical	\$m	16 228	13 907
– thermal	Mt	112	112	– thermal	\$m	6 966	6 834
– total	Mt	236	250	– total	\$m	23 194	20 741
copper ^b _s	kt	723	703	copper ^b	\$m	6 600	6 342
diamonds ^e _s	'000 ct	29 308	19 231	diamonds ^e _s	\$m	783	684
gold ^b _s	t	349	412	gems other than diamonds	\$m	55	48
iron				gold, refined	\$m	8 863	10 789
– iron ore and pellets	kt	247 429	267 203	iron			
– iron and steel	kt	2 595	2 520	– iron ore and pellets	\$m	14 366	16 024
lead ^b _s	kt	669	630	– iron and steel	\$m	1 729	1 669
manganese ore				lead ^b	\$m	1 368	2 090
and concentrate	kt	4 207	4 841	manganese ore			
nickel ^b _s	kt	201	206	and concentrate	\$m	463	712
petroleum				nickel ^b _s	\$m	5 514	7 518
– crude oil and other				petroleum			
refinery feedstock	ML	13 532	15 756	– crude oil and other			
– lng	Mt	14	15	refinery feedstock	\$m	7 272	8 704
– lpg	ML	2 804	2 677	– lng	\$m	5 109	5 066
– refinery products	ML	2 018	1 891	– lpg	\$m	1 054	1 056
salt	kt	10 911	10 707	– refinery products	\$m	1 213	1 202
tin ^b	t	1 022	2 529	salt	\$m	240	236
titanium				silver, refined	\$m	209	214
– ilmenite concentrate	kt	905	923	tin ^b	\$m	10	33
– leucoxene concentrate	kt	81	123	titanium			
– rutile concentrate	kt	231	346	– ilmenite concentrate	\$m	100	106
– synthetic rutile ^s	kt	490	497	– leucoxene concentrate	\$m	25	29
– titanium dioxide pigment	kt	173	177	– rutile concentrate	\$m	192	276
uranium oxide (U ₃ O ₈)	t	8 661	10 232	– synthetic rutile ^s	\$m	339	334
zinc ^b	kt	1 283	1 463	– titanium dioxide pigment	\$m	429	399
zircon concentrate	kt	485	610	uranium oxide (U ₃ O ₈)	\$m	533	884
				zinc ^b	\$m	3 792	4 213
				zircon concentrate	\$m	446	453
				other mineral resources ^f	\$m	5 615	4 779
				total mineral resources ^g	\$m	101 197	106 574
				total merchandise	\$m	165 707	169 320
				total goods and services	\$m	209 609	217 518

^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.

calendar year production summary

australian minerals and energy sector

		2006	2007 p	change %
bauxite	kt	61 780	62 428	1.0
alumina	kt	18 311	18 844	2.9
aluminium (ingot metal)	kt	1 929	1 960	1.6
coal				
– black, salable	Mt	316	322	2.0
copper				
– mine b s	kt	879	869	-1.1
– blister c	kt	377	399	5.8
– refined s	kt	429	441	2.8
diamonds	'000 ct	29 308	19 231	-34.4
gold				
– mine b s	t	246	246	-0.1
– refined	t	379	375	-1.2
iron				
– iron ore and concentrate s	kt	275 042	299 061	8.7
– iron and steel s	Mt	7 937	8 047	1.4
lead				
– mine b s	kt	668	641	-4.0
– bullion c	kt	118	125	5.8
– refined	kt	206	202	-2.2
manganese s	kt	4 567	5 290	15.8
nickel				
– mine b s	kt	185	183	-1.2
– intermediate	kt	48	53	9.9
– refined, class 1	kt	105	100	-4.6
– refined, class 2	kt	11	14	24.3
petroleum, field				
– crude oil and condensate s	ML	25 774	26 721	3.7
– lpg (naturally occurring)	ML	4 700	4 262	-9.3
– natural gas	Mm ³	38 886	39 959	2.8
petroleum, total refinery	ML	36 527	40 134	9.9
salt s	kt	11 363	11 440	0.7
silver				
– mine b s	t	1 728	1 879	8.7
– refined	t	634	624	-1.6
tin				
– mine b s	t	1 477	2 085	41.2
– refined s	t	572	118	-79.4
titanium				
– ilmenite concentrate s	kt	2 377	2 337	-1.7
– leucoxene concentrate	kt	139	169	21.6
– rutile concentrate s	kt	232	313	34.9
– synthetic rutile s	kt	703	727	3.4
– titanium dioxide pigment s	kt	208	208	0.2
uranium oxide (U ₃ O ₈)	t	8 970	10 146	13.1
zinc				
– mine b	kt	1 362	1 518	11.5
– refined	kt	463	502	8.5
zircon concentrate	kt	491	605	23.1

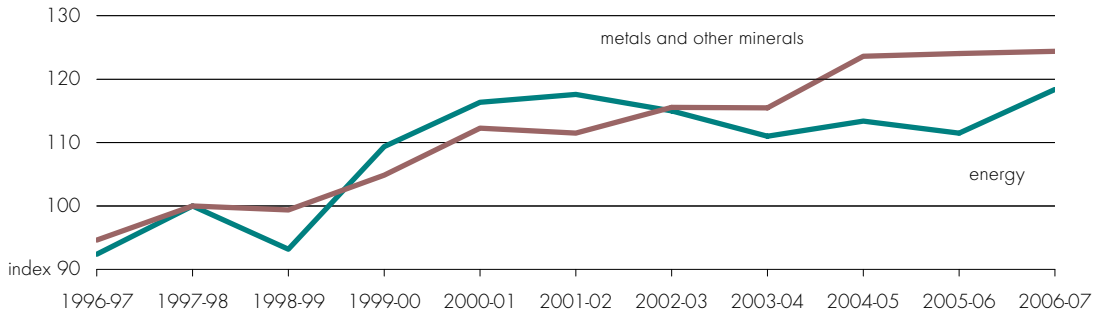
a Quarterly data are not available. b Total metallic content of minerals produced. c Metallic content. p Preliminary. s ABARE estimate. na Not available.

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

resources sector indicators

mine production – Australia

base: 1997-98 = 100



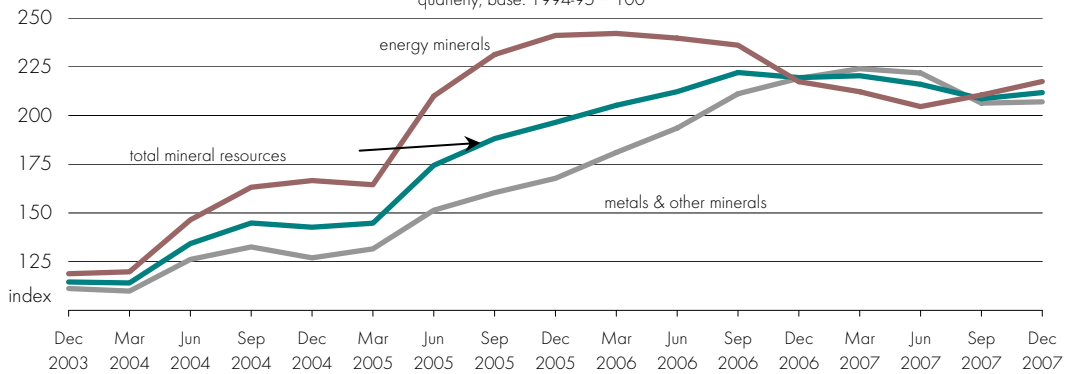
mineral resources exports

quarterly



export unit returns

quarterly, base: 1994-95 = 100



1 production summary

		2005-06	2006-07 p	quarter					
				2006-07 p				2007-08 p	
				sept	dec	mar	june	sept	dec
bauxite	kt	60 874	62 684	15 986	15 789	15 288	15 621	15 456	16 063
alumina	kt	17 826	18 506	4 588	4 800	4 447	4 671	4 802	4 924
aluminium (ingot metal)	kt	1 912	1 957	491	493	483	489	493	494
coal									
black, raw	Mt	398	414	104	104	99	106	112	98
black, salable	Mt	307	324	81	83	77	82	84	78
brown as	Mt	68	72	na	na	na	na	na	na
copper									
mine bs	kt	936	859	216	210	220	213	200	237
blister c	kt	404	389	86	92	108	103	80	108
refined s	kt	461	435	98	105	119	113	90	119
diamonds	'000 ct	25 354	24 632	8 393	8 132	3 582	4 524	4 980	6 145
gold									
mine bs	t	248	250	62	65	61	62	60	62
refined	t	380	360	83	87	92	99	84	100
iron									
iron ore and concentrate s	kt	263 815	287 653	72 088	72 491	67 296	75 778	74 202	81 785
iron and steel s	Mt	7 866	8 010	2 021	2 006	1 982	2 001	2 058	2 006
lead									
mine bs	kt	762	641	167	152	166	156	160	160
bullion c	kt	141	114	34	23	25	32	34	34
refined	kt	234	191	24	59	47	60	44	51
manganese s	kt	4 088	5 071	1 244	1 252	1 229	1 345	1 355	1 360
nickel									
mine bs	kt	186	192	47	51	47	47	44	45
intermediate	kt	47	57	14	16	15	13	13	12
refined, class 1	kt	105	104	27	28	23	25	27	25
refined, class 2	kt	10	15	2	3	5	4	2	3
petroleum, field									
crude oil and condensate s	ML	24 315	28 555	7 665	7 297	6 558	7 037	6 736	6 389
LPG (naturally occurring)	ML	4 722	4 550	1 293	1 143	1 037	1 077	1 145	1 002
natural gas	Mm ³	38 016	39 331	10 275	9 812	9 059	10 184	10 681	10 034
petroleum, total refinery	ML	38 597	41 461	9 087	10 001	9 558	10 149	10 343	10 084
salt s	kt	11 467	11 209	2 477	3 072	2 680	2 980	2 890	2 890
silver									
mine bs	t	2 218	1 674	393	340	474	467	475	464
refined	t	655	618	141	165	156	156	174	138
tin									
mine bs	t	1 805	2 061	262	656	586	558	391	550
refined s	t	736	321	106	97	68	50	0	0
titanium									
ilmenite concentrate s	kt	2 185	2 403	632	598	597	577	580	584
leucosene concentrate	kt	87	174	41	48	34	52	41	43
rutile concentrate s	kt	184	277	69	68	65	75	81	92
synthetic rutile s	kt	711	721	183	181	171	186	183	186
titanium dioxide pigment s	kt	208	207	49	55	51	52	53	52
uranium oxide (U ₃ O ₈)	t	9 974	9 594	2 127	2 715	2 081	2 670	2 473	2 921
zinc									
mine bs	kt	1 380	1 375	324	352	324	375	392	427
refined	kt	446	496	121	129	119	127	127	129
zircon concentrate	kt	442	565	125	139	137	163	148	157

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

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

2 volume of mine production indexes ^a

	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07
energy minerals	109.4	116.4	117.6	115.0	111.0	113.4	111.5	118.4
metals and other minerals	104.9	112.3	111.5	115.6	115.5	123.6	124.0	124.4
total minerals	107.4	114.5	114.9	115.2	113.3	118.6	117.9	121.1

^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

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
bauxite	kt	5 639	5 700	1 363	1 433	1 329	1 575	2 191	2 062
alumina ^a	kt	14 499	15 056	3 698	4 091	3 546	3 720	3 894	4 023
aluminium (ingot metal)	kt	1 617	1 638	434	402	404	398	439	418
coal, black									
metallurgical	Mt	120.48	131.97	32.77	31.56	32.55	35.08	34.70	35.69
thermal	Mt	110.82	111.62	27.34	28.21	28.58	27.49	27.59	28.59
copper ^{bs}	kt	790	699	170	178	183	167	180	173
diamonds ^{cs}	'000 ct	25 354	24 632	8 393	8 132	3 582	4 524	4 980	6 145
gold ^{bs}	t	315.24	399.69	92.82	93.12	96.00	117.75	107.94	89.85
iron									
iron ore and pellets	kt	239 380	257 365	64 230	67 331	58 624	67 179	68 436	72 963
iron and steel	kt	2 428	2 648	633	674	678	663	618	562
lead ^{bs}	kt	756	635	155	180	157	142	158	173
manganese ore									
and concentrate	kt	3 215	4 667	1 087	1 224	1 107	1 248	1 193	1 293
nickel ^{ds}	kt	170	215	51	59	52	52	51	50
petroleum									
crude oil and other									
refinery feedstock	ML	13 026	15 965	4 063	4 216	3 951	3 734	4 017	4 054
LNG	Mt	12.50	15.20	3.45	3.90	3.95	3.90	3.40	3.70
LPG	ML	2 800	2 824	731	814	593	686	788	610
refinery products	ML	2 102	1 762	505	440	395	421	555	520
salt	kt	10 776	10 749	2 389	2 964	2 575	2 821	2 396	2 915
tin ^b	t	1 556	1 867	221	433	663	550	569	747
titanium									
ilmenite concentrate	kt	722	999	270	312	248	169	224	283
leucoxene concentrate	kt	86	123	28	23	46	26	47	4
rutile concentrate	kt	169	307	67	80	77	82	87	99
synthetic rutile ^s	kt	472	508	140	131	112	126	131	128
titanium dioxide pigment	kt	177	171	44	39	40	48	45	45
uranium oxide (U ₃ O ₈)	t	10 253	9 519	1 856	3 005	1 725	2 933	2 486	3 088
zinc ^b	kt	1 328	1 321	305	349	293	374	387	409
zircon concentrate	kt	438	555	124	137	143	152	152	163

continued

3 exports summary

continued

		2005-06	2006-07 p	quarter					
				2006-07 p				2007-08 p	
				sept	dec	mar	june	sept	dec
bauxite	\$m	127	153	30	38	41	44	59	53
alumina a	\$m	5 262	6 243	1 550	1 710	1 484	1 499	1 532	1 427
aluminium (ingot metal)	\$m	4 788	5 650	1 457	1 384	1 449	1 360	1 390	1 168
coal, black									
metallurgical	\$m	17 003	15 039	4 063	3 739	3 716	3 521	3 357	3 313
thermal	\$m	7 206	6 758	1 705	1 704	1 715	1 635	1 694	1 791
copper e	\$m	5 653	6 526	1 631	1 703	1 544	1 648	1 673	1 477
diamonds cs	\$m	836	726	208	199	194	125	183	183
gems, other than diamonds	\$m	59	49	14	9	16	9	13	10
gold, refined	\$m	7 089	10 320	2 399	2 362	2 529	3 030	2 729	2 501
iron									
iron ore and pellets	\$m	12 854	15 512	3 909	4 016	3 502	4 085	4 152	4 284
iron and steel	\$m	1 674	1 743	421	447	444	431	401	393
lead e	\$m	1 296	1 579	328	395	431	425	525	709
manganese ore									
and concentrate	\$m	424	482	113	124	109	136	209	258
nickel es	\$m	3 128	8 381	1 650	2 060	2 197	2 474	1 495	1 353
petroleum									
crude oil and other									
refinery feedstock	\$m	6 638	8 317	2 316	2 070	1 922	2 009	2 234	2 539
LNG	\$m	4 416	5 222	1 362	1 396	1 275	1 188	1 173	1 430
LPG	\$m	1 002	1 038	288	275	218	257	305	276
refinery products	\$m	1 195	1 098	342	252	229	275	356	342
salt	\$m	229	239	54	62	60	62	53	61
silver, refined	\$m	197	221	48	54	52	67	49	46
tin e	\$m	12	25	2	5	9	8	9	7
titanium									
ilmenite concentrate	\$m	76	113	31	33	28	20	22	36
leucoxene concentrate	\$m	25	35	11	7	10	8	9	2
rutile concentrate	\$m	138	259	56	66	64	74	66	72
synthetic rutile s	\$m	321	361	97	91	78	96	82	78
titanium dioxide pigment	\$m	441	408	108	96	97	107	101	94
uranium oxide (U ₃ O ₈)	\$m	546	660	125	194	142	198	285	259
zinc e	\$m	2 540	4 298	970	1 208	999	1 121	1 140	954
zircon concentrate	\$m	398	478	112	123	130	113	101	108
other mineral resources f	\$m	5 212	4 691	1 046	1 258	1 083	1 304	1 355	1 493
total mineral resources g	\$m	90 786	106 629	26 447	27 082	25 770	27 330	26 754	26 720
total merchandise	\$m	154 425	169 535	43 074	43 558	40 109	42 794	43 068	43 349
total goods and services	\$m	196 274	215 805	54 167	55 249	52 033	54 356	55 190	55 939

a Includes aluminium hydroxide. **b** Metallic content of all ores, concentrates, intermediate products (where applicable) and refined metal. **c** Unsorted and sorted. **d** Includes metal content of ores and concentrates, intermediate products and nickel metal. **e** Value of all ores, concentrates, intermediate products (where applicable) and refined metal. **f** Derived as the difference between total mineral resources exports, below, and the sum of the above items. **g** Total mineral resource exports on an ABARE balance of payments basis. **p** Preliminary. **s** ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

4 mineral resources export unit returns ^a

	quarter							
	2005-06		2006-07 p				2007-08 p	
	mar	june	sept	dec	mar	june	sept	dec
energy minerals	242.1	239.7	236.1	217.4	212.2	204.6	210.5	217.5
metals and other minerals	181.1	193.6	211.2	219.1	224.0	221.8	206.4	207.0
total mineral resources	205.3	212.3	222.1	219.5	220.4	216.0	208.6	211.8

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

Sources: Australian Bureau of Statistics, Canberra; ABARE.

5 imports summary

continued

		2005-06	2006-07 p	quarter					
				2006-07 p				2007-08 p	
				sept	dec	mar	june	sept	dec
quantity									
diamonds a	'000 ct	4 098	3 430	822	1 002	789	817	802	930
iron ore	kt	5 026	4 722	1 265	1 683	757	1 017	1 098	1 345
ingot steel	kt	2 191	2 318	617	530	657	513	489	405
ferroalloys	kt	57	87	38	17	14	17	17	18
petroleum									
crude oil and other refinery feedstock	ML	24 416	25 345	5 921	6 230	6 600	6 594	6 969	7 083
refinery products	ML	15 124	18 286	4 188	4 462	4 377	5 260	4 765	4 747
phosphate rock	kt	655	472	123	146	55	148	93	279
value									
diamonds a	\$m	403	397	91	98	106	102	104	120
gold b	\$m	4 800	5 309	1 163	1 320	1 290	1 537	1 882	1 414
iron ore	\$m	222	338	72	117	60	89	84	92
ingot steel	\$m	2 075	2 479	539	610	721	609	562	493
ferroalloys	\$m	123	116	28	35	22	30	33	35
petroleum									
crude oil and other refinery feedstock	\$m	12 820	13 360	3 528	3 061	3 196	3 574	3 880	4 359
refinery products	\$m	8 761	8 583	2 169	2 021	1 905	2 488	2 235	2 747
phosphate rock	\$m	42	32	8	8	4	11	7	23
silver	\$m	33	98	28	23	42	4	4	21
other	\$m	637	985	240	204	371	170	227	358
total	\$m	29 916	31 698	7 867	7 498	7 718	8 615	9 019	9 661

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

		2005-06	2006-07 p	quarter					
				2005-06		2006-07 p			2007-08 p
				june	sept	dec	mar	june	sept
energy									
petroleum									
onshore	\$m	355.8	498.2	95.4	107.8	144.5	110.3	135.6	113.4
offshore	\$m	906.1	1 727.3	284.4	380.8	400.0	350.0	596.5	584.9
total	\$m	1 261.9	2 225.5	379.8	488.6	544.5	460.3	732.1	698.3
coal	\$m	166.4	193.2	46.7	50.5	60.0	38.8	43.9	50.1
uranium	\$m	56.1	114.1	18.3	24.7	27.6	24.3	37.5	50.0
total energy	\$m	1 484.4	2 532.8	444.8	563.8	632.1	523.4	813.5	798.4
metals and other minerals									
copper	\$m	139.5	234.5	46.7	52.7	53.5	51.2	77.1	65.2
diamonds	\$m	22.6	26.9	4.6	8.6	10.2	3.3	4.8	5.0
gold	\$m	399.6	455.9	110.5	104.3	125.0	103.6	123.0	129.6
iron ore	\$m	161.3	285.4	49.7	70.1	72.5	54.0	88.8	112.8
mineral sands	\$m	29.2	37.3	7.2	7.7	10.8	9.5	9.3	7.2
nickel, cobalt	\$m	146.0	181.1	36.0	39.8	42.8	40.6	57.9	66.8
silver, lead and zinc	\$m	71.2	139.4	25.5	26.3	34.1	33.5	45.5	56.9
other	\$m	48.8	46.8	12.2	9.9	11.7	10.5	14.7	19.8
total metals and other minerals	\$m	1 018.2	1 407.3	292.4	319.4	360.6	306.2	421.1	463.3
total expenditure	\$m	2 502.6	3 940.1	737.2	883.2	992.7	829.6	1 234.6	1 261.7

Sources: Australian Bureau of Statistics, Canberra; ABARE.

7 mineral resources prices

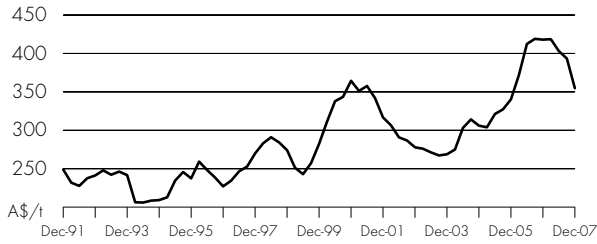
	alumina	aluminium	gold	iron ore a	thermal coal	metallurgical coal	crude oil b	uranium c
	avg export	(high grade)	London	avg export	avg export	avg export	world trade	Industry
	unit value	LME cash	AM fix	unit value	unit value	unit value	wtd ave	spot price
	A\$/t	US\$/t	US\$/oz	A\$/t	A\$/t	A\$/t	US\$/bbl	US\$/lb
2004-05	311.47	1 806.85	422.49	35.54	59.55	86.12	41.18	22.20
2005-06	362.90	2 244.69	526.95	53.70	65.02	141.13	57.25	36.79
2006-07	414.63	2 692.18	638.56	60.27	60.54	113.96	59.45	81.17
2006								
october	423.93	2 654.59	586.65	60.40	61.41	121.22	54.20	60.00
november	414.95	2 702.80	626.83	59.78	60.49	118.35	53.89	63.00
december	414.11	2 813.08	629.51	58.75	59.24	115.91	56.89	72.00
2007								
january	408.95	2 809.30	630.35	58.91	59.17	114.66	50.77	75.00
february	421.36	2 832.20	664.60	60.59	62.51	112.52	53.65	85.00
march	425.15	2 761.73	655.89	59.56	58.63	114.95	58.70	95.00
april	399.41	2 814.79	680.01	60.57	59.88	101.45	63.67	113.00
may	402.63	2 794.69	668.31	61.40	59.52	99.77	63.91	125.00
june	406.91	2 677.45	655.71	60.45	58.95	99.90	66.89	136.00
july	379.18	2 732.91	665.27	59.43	58.23	92.69	72.87	120.00
august	408.92	2 515.77	664.53	61.64	62.87	98.00	69.48	90.00
september	391.74	2 391.25	710.65	60.72	63.22	99.33	73.88	85.00
october	351.09	2 442.37	754.48	58.56	60.30	90.29	78.16	85.00
november	344.79	2 508.25	808.31	58.69	61.68	92.97	88.86	93.00
december	366.61	2 381.69	803.62	58.89	65.29	95.22	87.62	90.00
	copper	lead	zinc	silver d	nickel	ilmenite e	rutile f	zircon g
	(high grade)		(high grade)	London fix		avg export	avg export	avg export
	LME cash	LME cash	LME cash		LME cash	unit value	unit value	unit value
	US\$/t	US\$/t	US\$/t	US\$/troy oz	US\$/t	A\$/t	A\$/t	A\$/t
2004-05	3 151.00	964.08	1 170.95	694.94	14 957.03	99.29	717.20	746.27
2005-06	5 062.00	1 061.35	2 117.81	927.82	15 487.81	105.92	816.59	908.63
2006-07	7 086.78	1 694.20	3 672.41	1 274.16	37 942.21	112.89	845.61	861.55
2006								
october	7 500.39	1 531.14	3 822.95	1 155.86	32 702.95	116.41	889.23	1 102.17
november	7 029.14	1 624.52	4 382.23	1 293.11	32 113.86	112.34	871.69	1 158.22
december	6 691.78	1 730.00	4 415.14	1 336.05	34 585.28	90.24	848.17	1 202.45
2007								
january	5 669.61	1 666.68	3 786.66	1 283.86	36 806.59	117.07	937.98	1 167.70
february	5 676.45	1 777.10	3 309.50	1 391.00	41 184.25	123.20	872.17	1 118.49
march	6 452.48	1 914.05	3 271.30	1 318.43	46 324.77	109.26	861.21	1 121.02
april	7 766.47	2 000.95	3 557.47	1 373.84	50 266.84	112.76	808.14	1 051.13
may	7 682.17	2 100.64	3 830.29	1 314.64	52 179.05	85.20	803.33	1 070.32
june	7 475.88	2 425.98	3 603.26	1 314.43	41 718.57	149.96	796.70	1 049.30
july	7 977.05	3 089.50	3 546.91	1 290.93	33 425.68	101.32	746.65	1 071.78
august	7 513.50	3 119.45	3 244.73	1 236.32	27 606.82	96.45	795.01	1 057.47
september	7 648.98	3 226.55	2 896.40	1 283.35	29 537.50	na	771.04	1 045.24
october	8 008.43	3 719.72	2 975.33	1 365.26	31 055.43	na	722.59	1 011.43
november	6 966.70	3 328.18	2 541.32	1 470.16	30 610.23	na	712.83	967.93
december	6 587.67	2 596.08	2 353.08	1 429.87	25 991.94	na	760.56	987.75

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** Based on all grades, bagged only from September 1999. **na** Not available.

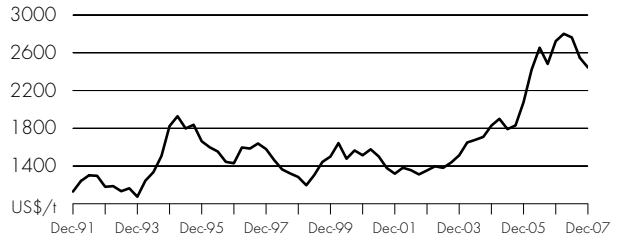
Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; London Bullion Market Association; The Ux Consulting Company; US Department of Energy; ABARE.

mineral resources prices, ended december 2007

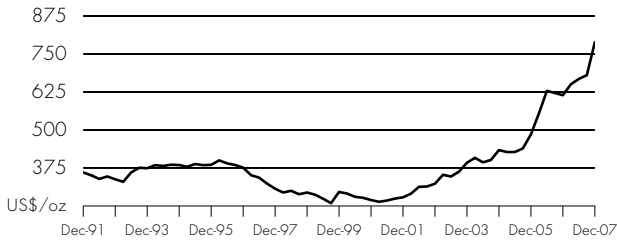
alumina



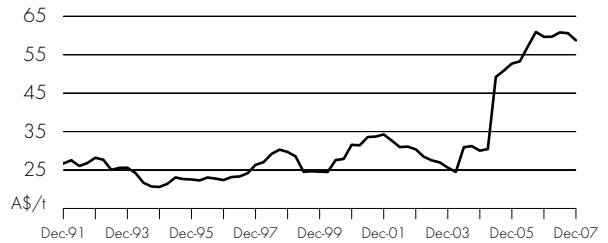
aluminium



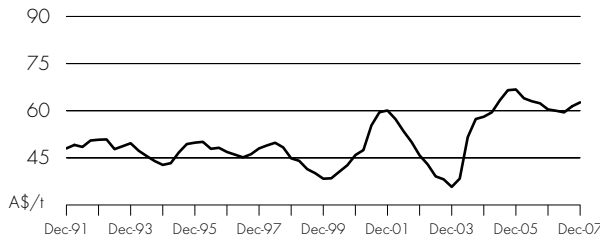
gold



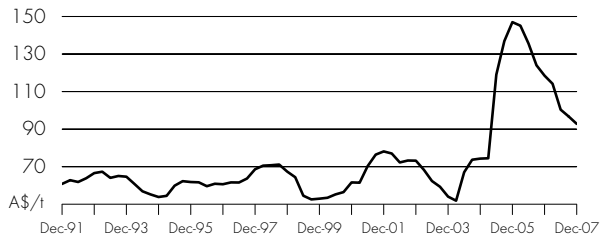
iron ore



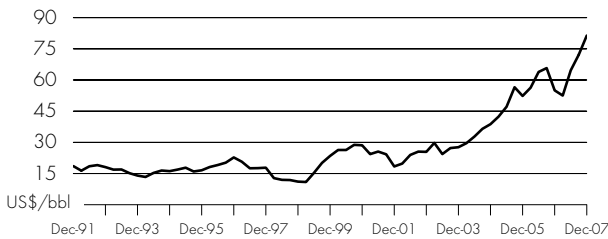
thermal coal



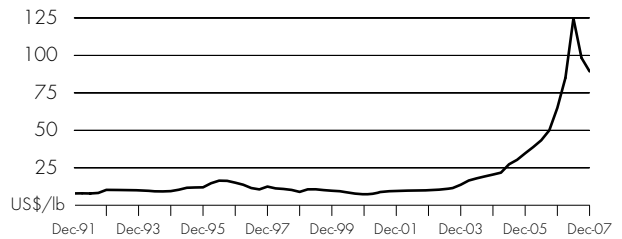
metallurgical coal



crude oil

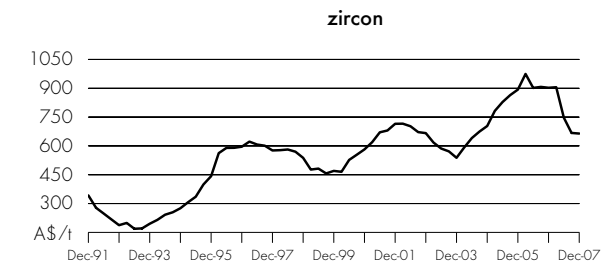
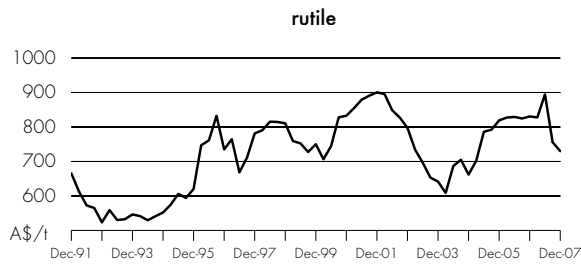
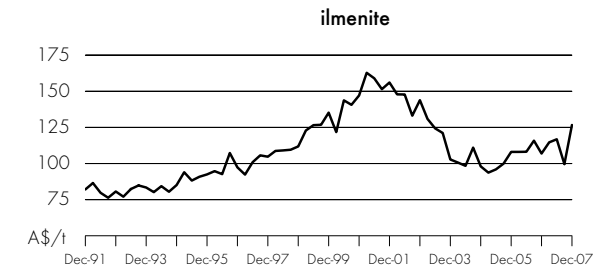
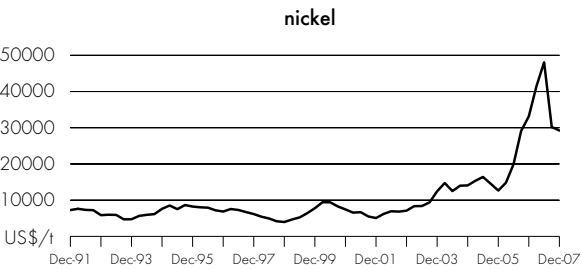
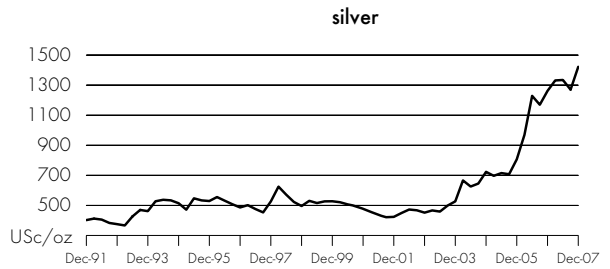
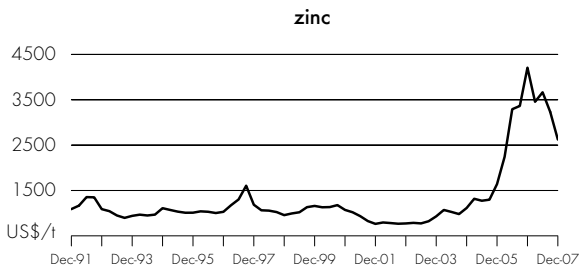
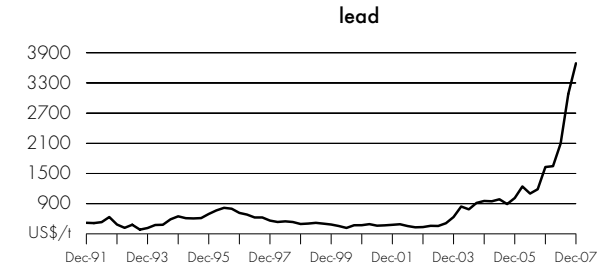
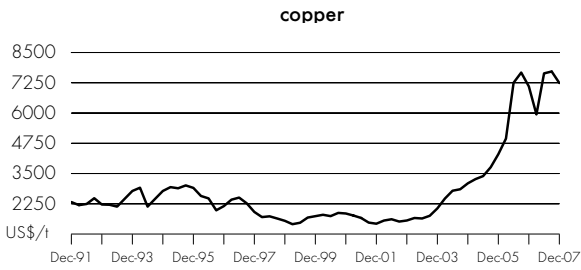


uranium



mineral resources prices, ended december 2007

continued



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

8 aluminium

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
production									
mine									
bauxite									
Queensland	kt	16 158	16 969	4 085	4 487	4 272	4 125	4 095	4 285
Western Australia	kt	39 284	41 363	10 738	10 290	9 925	10 409	10 211	10 415
Northern Territory	kt	5 432	4 352	1 162	1 012	1 091	1 087	1 149	1 363
Australia	kt	60 874	62 684	15 986	15 789	15 288	15 621	15 456	16 063
alumina content	kt	22 728	23 224	5 873	5 893	5 703	5 756	5 698	5 977
smelter and refinery									
alumina	kt	17 826	18 506	4 588	4 800	4 447	4 671	4 802	4 924
aluminium (ingot metal)	kt	1 912	1 957	491	493	483	489	493	494
exports									
quantity									
bauxite ^a	kt	5 639	5 700	1 363	1 433	1 329	1 575	2 191	2 062
alumina ^{bc}	kt	14 499	15 056	3 698	4 091	3 546	3 720	3 894	4 023
aluminium (ingot metal)									
Chinese Taipei	kt	187	153	43	41	30	38	49	54
Indonesia	kt	93	78	19	20	18	21	20	20
Japan	kt	542	634	186	154	157	136	159	139
Korea, Rep. of	kt	240	213	55	52	53	53	65	73
Malaysia	kt	87	92	18	22	25	27	24	29
Thailand	kt	192	200	45	52	51	51	55	56
other	kt	276	268	66	60	70	72	66	47
total	kt	1 617	1 638	434	402	404	398	439	418
value									
bauxite ^a	\$m	127	153	30	38	41	44	59	53
alumina ^{bc}	\$m	5 262	6 243	1 550	1 710	1 484	1 499	1 532	1 427
aluminium (ingot metal)	\$m	4 788	5 650	1 457	1 384	1 449	1 360	1 390	1 168
imports									
quantity									
bauxite	kt	11	10	1	1	2	5	2	2
alumina ^b	kt	1	11	2	2	4	3	3	3
aluminium (ingot metal)	kt	6	3	1	1	1	1	1	1
value									
bauxite	\$m	3	3	0	0	1	1	0	1
alumina ^b	\$m	2	12	3	3	3	3	3	3
aluminium (ingot metal)	\$m	20	11	3	3	3	3	3	2
prices									
alumina ^d	A\$/t	363	415	419	418	418	403	393	355
aluminium									
LME cash ^e	US\$/t	2 245	2 692	2 482	2 723	2 801	2 762	2 547	2 444
Australia ^d	A\$/t	2 962	3 450	3 358	3 446	3 586	3 416	3 170	2 795

^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

		2005-06	2006-07 p	quarter					
				2006-07 p				2007-08 p	
				sept	dec	mar	june	sept	dec
production									
mine									
black coal, raw									
underground	Mt	86.72	93.82	23.47	22.94	21.99	25.43	30.18	22.15
opencut	Mt	311.65	319.91	80.35	81.51	77.30	80.76	81.92	76.29
New South Wales	Mt	161.14	169.72	43.73	43.62	40.79	41.57	45.90	43.44
Queensland	Mt	226.53	233.47	57.44	58.19	55.86	61.98	63.50	52.28
Western Australia a	Mt	6.30	6.18	1.55	1.55	1.55	1.55	1.58	1.60
South Australia a	Mt	3.80	3.60	0.89	0.89	0.91	0.91	0.96	0.96
Tasmania a	Mt	0.60	0.77	0.20	0.20	0.18	0.18	0.16	0.16
Australia	Mt	398.37	413.74	103.81	104.45	99.29	106.19	112.10	98.44
black coal, salable									
underground	Mt	67.30	74.30	18.99	18.52	17.01	19.78	23.27	18.32
opencut	Mt	239.90	249.62	62.29	64.87	60.29	62.18	61.16	58.92
New South Wales	Mt	124.61	130.88	33.57	33.29	31.70	32.32	35.25	34.44
Queensland	Mt	171.90	182.77	45.18	47.57	42.99	47.03	46.48	40.98
Western Australia a	Mt	6.30	6.10	1.53	1.53	1.53	1.53	1.58	1.60
South Australia a	Mt	3.80	3.60	0.89	0.89	0.91	0.91	0.96	0.96
Tasmania a	Mt	0.58	0.56	0.11	0.11	0.17	0.17	0.15	0.15
Australia	Mt	307.19	323.92	81.27	83.38	77.30	81.96	84.43	78.13
brown coal b									
Victoria s	Mt	67.74	71.88	na	na	na	na	na	na
exports									
quantity									
metallurgical coal, high quality									
Brazil	Mt	3.17	3.05	0.71	0.86	0.75	0.73	0.90	0.98
China	Mt	2.22	2.41	0.50	0.50	1.04	0.36	0.28	0.74
Chinese Taipei	Mt	3.31	3.47	1.04	0.82	0.74	0.88	0.75	0.82
European Union 25	Mt	19.32	20.20	5.42	5.11	4.34	5.33	5.84	4.88
India	Mt	13.63	16.30	4.37	3.92	3.79	4.22	4.85	4.81
Japan	Mt	23.87	25.42	6.25	5.90	6.54	6.73	5.50	6.68
Korea, Rep. of	Mt	6.58	6.25	1.40	1.50	1.80	1.55	1.70	1.45
other	Mt	5.39	5.72	1.44	1.66	1.43	1.19	1.38	1.35
total	Mt	77.48	82.81	21.14	20.27	20.42	20.98	21.20	21.71
metallurgical coal, other c									
Chinese Taipei	Mt	4.41	4.57	1.10	0.93	1.31	1.23	0.83	1.09
European Union 25	Mt	4.73	4.34	1.02	1.08	1.01	1.23	1.42	1.02
India	Mt	2.77	3.32	0.82	0.85	0.78	0.86	1.18	1.35
Japan	Mt	20.35	23.44	5.55	5.27	6.19	6.43	6.61	6.61
other	Mt	10.74	13.49	3.13	3.16	2.84	4.35	3.46	3.91
total	Mt	42.99	49.15	11.63	11.30	12.13	14.10	13.50	13.98
total metallurgical coal	Mt	120.48	131.97	32.77	31.56	32.55	35.08	34.70	35.69
thermal coal									
Chinese Taipei	Mt	13.21	16.23	3.72	4.11	4.26	4.15	4.09	5.29
European Union 25	Mt	2.32	3.73	0.60	1.14	0.76	1.22	0.09	0.35
Japan	Mt	59.33	58.64	14.24	14.34	15.13	14.93	16.28	17.03
Korea, Rep. of	Mt	20.24	15.06	4.00	3.64	4.12	3.30	4.11	4.04
other	Mt	15.74	17.96	4.77	4.98	4.32	3.89	3.02	1.88
total	Mt	110.82	111.62	27.34	28.21	28.58	27.49	27.59	28.59

continued

9 coal

continued

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
exports									
quantity									
other coal	Mt	1.17	0.80	0.35	0.28	0.00	0.17	0.20	0.00
coke ^d	Mt	na	na	na	na	na	na	na	na
value									
metallurgical coal									
high quality	\$m	12 203	11 010	3 010	2 796	2 749	2 456	2 304	2 258
other quality	\$m	4 800	4 029	1 053	943	967	1 066	1 052	1 054
total metallurgical coal	\$m	17 003	15 039	4 063	3 739	3 716	3 521	3 357	3 313
thermal coal	\$m	7 206	6 758	1 705	1 704	1 715	1 635	1 694	1 791
other coal	\$m	80	48	23	15	0	10	12	0
total coal	\$m	24 290	21 845	5 790	5 458	5 431	5 166	5 063	5 103
coke	\$m	59	80	14	13	25	28	40	19
imports									
quantity									
coke	Mt	0.05	0.04	0.01	0.02	0.01	0.01	0.01	0.00
value									
coke	\$m	4	6	2	2	1	1	1	0
prices ^e									
metallurgical coal									
high quality	A\$/t	157.49	132.96	142.38	137.95	134.59	117.04	108.69	104.02
other	A\$/t	111.65	81.97	90.56	83.50	79.73	75.59	77.95	75.41
thermal coal	A\$/t	65.02	60.54	62.36	60.39	59.99	59.46	61.41	62.64

^a Quarterly data derived from annual ABARE estimates. ^b Quarterly data not available. ^c Country details confidential for various time periods for Brazil, Chinese Taipei, Dem. Peoples Rep. of Korea, Italy, Pakistan and Republic of Korea - commencing from October 1996. ^d Quantity details not available from August 2003. ^e Average export unit value. ^p Preliminary. ^s ABARE estimate. ^{na} Not available.

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

10 copper

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
production									
mine s									
copper ore and concentrate	kt	2 826	3 060	756	763	768	773	773	797
copper content of all minerals produced									
New South Wales ^a	kt	204	195	52	53	46	45	39	38
Queensland ^a	kt	399	338	82	85	86	84	88	118
Western Australia ^a	kt	97	114	32	25	27	29	31	31
South Australia	kt	204	183	42	40	54	48	34	43
Tasmania	kt	32	29	8	7	7	7	9	7
Australia ^a	kt	936	859	216	210	220	213	200	237
smelter and refinery									
blister copper (primary) ^b	kt	404	389	86	92	108	103	80	108
refined copper (primary) ^s	kt	461	435	98	105	119	113	90	119
exports									
quantity									
copper concentrate									
China ^c	kt	581	394	111	133	95	54	142	101
India	kt	494	493	135	71	137	149	146	132
Japan	kt	391	414	94	124	86	110	110	76
Korea, Rep. of	kt	68	115	36	15	34	29	61	39
other	kt	100	77	42	35	0	0	10	10
total	kt	1 635	1 493	418	379	352	343	469	357
refined copper									
Chinese Taipei	kt	76	88	8	27	25	27	24	19
Indonesia	kt	30	17	3	7	4	3	2	3
Japan	kt	6	2	1	0	1	0	0	1
Singapore	kt	7	5	1	0	3	0	0	0
Thailand	kt	65	40	12	12	9	8	8	13
other	kt	130	138	27	27	44	40	22	37
total	kt	314	290	53	72	86	79	57	73
copper content of all primary materials exported ^{ds}	kt	790	699	170	178	183	167	180	173
value									
copper concentrate	\$m	3 492	3 914	1 091	1 056	846	921	1 153	859
refined copper	\$m	2 161	2 612	539	647	698	728	519	618
total	\$m	5 653	6 526	1 631	1 703	1 544	1 648	1 673	1 477
prices ^e									
LME cash	US\$/t	5 062	7 087	7 670	7 098	5 941	7 637	7 715	7 239
Australia	A\$/t	6 842	9 063	10 150	9 263	7 617	9 221	9 122	8 087

^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

		2005-06	2006-07 p	quarter					
				2006-07 p				2007-08 p	
				sept	dec	mar	june	sept	dec
production									
diamonds									
Northern Territory	'000 ct	14	10	4	5	0	0	0	0
Western Australia	'000 ct	25 339	24 622	8 389	8 127	3 582	4 524	4 980	6 145
Australia	'000 ct	25 354	24 632	8 393	8 132	3 582	4 524	4 980	6 145
exports									
quantity									
diamonds									
unsorted s	'000 ct	25 226	24 359	8 371	8 116	3 566	4 306	4 960	6 128
sorted									
gem	'000 ct	126	272	22	16	16	218	20	17
industrial a	'000 ct	2	1	0	0	0	1	0	0
total s	'000 ct	25 354	24 632	8 393	8 132	3 582	4 524	4 980	6 145
value									
diamonds									
unsorted s	\$m	685	602	173	168	161	100	147	144
sorted									
gem	\$m	151	124	35	31	33	25	36	38
industrial a	\$m	0	0	0	0	0	0	0	0
total s	\$m	836	726	208	199	194	125	183	183
opals									
rough	\$m	13	12	4	3	3	2	3	2
cut and polished	\$m	37	30	9	6	9	6	9	7
total	\$m	50	41	13	8	12	8	12	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	8	7	1	1	3	1	2	1
total gemstones	\$m	59	49	14	9	16	9	13	10
imports									
quantity									
diamonds									
unsorted	'000 ct	1	0	0	0	0	0	1	1
sorted									
gem	'000 ct	1 641	421	88	116	116	101	135	194
industrial a	'000 ct	126	158	15	71	35	37	97	42
dust and powder	'000 ct	2 330	2 850	719	815	637	680	569	693
value									
diamonds									
unsorted	\$m	1	0	0	0	0	0	0	0
sorted									
gem	\$m	398	392	90	96	104	101	103	118
industrial a	\$m	2	3	1	1	1	0	1	1
dust and powder	\$m	3	2	1	1	0	0	0	0
total	\$m	403	397	91	98	106	102	104	120

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

Sources: Australian Bureau of Statistics, Canberra; ABARE; Department of Minerals and Energy, Western Australia; Department of Minerals and Energy, Northern Territory.

12 gold

		2005-06	2006-07 p	quarter					
				2006-07 p				2007-08 p	
				sept	dec	mar	june	sept	dec
production									
mine s									
gold content of all minerals produced									
New South Wales	t	27	32	7	8	8	9	8	10
Victoria	t	6	7	1	2	2	1	1	2
Queensland	t	23	21	6	5	5	5	6	5
Western Australia	t	165	163	41	43	39	39	38	39
South Australia	t	7	7	2	1	2	2	2	2
Tasmania	t	7	4	1	1	1	1	1	1
Northern Territory	t	13	17	3	4	4	5	4	4
Australia	t	248	250	62	65	61	62	60	62
refinery									
primary									
Australian origin	t	209	208	51	54	53	50	51	51
overseas origin	t	66	55	14	16	13	12	14	14
secondary									
Australian origin	t	7	5	2	1	1	1	1	1
overseas origin	t	99	92	16	15	25	36	18	34
total	t	380	360	83	87	92	99	84	100
exports									
quantity									
refined and unrefined bullion									
China	t	1	0	0	0	0	0	0	0
Hong Kong, China	t	1	0	0	0	0	0	0	0
India	t	127	184	43	42	34	65	39	24
Japan	t	18	12	2	6	4	0	3	0
Korea, Rep. of	t	5	4	1	1	1	1	0	1
Middle East	t	3	23	0	5	8	10	21	2
United Arab Emirates	t	3	23	0	5	8	10	21	2
Singapore	t	13	18	5	5	4	5	0	0
Switzerland	t	3	37	0	6	15	16	24	2
Thailand	t	33	24	7	3	7	7	4	3
United Kingdom	t	101	71	22	21	19	9	15	57
other	t	10	28	13	5	5	5	2	1
total	t	315	400	93	93	96	118	108	90
value									
refined	\$m	7 089	10 320	2 399	2 362	2 529	3 030	2 729	2 501
imports									
value									
refined and unrefined bullion	\$m	4 800	5 309	1 163	1 320	1 290	1 537	1 882	1 414
prices									
London AM fix	US\$/oz	527	639	622	614	650	668	680	789
Australia	A\$/oz	707	814	822	799	829	805	804	888

p Preliminary. s ABARE estimate.

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

13 iron

		2005-06	2006-07 p	quarter					
				2006-07 p				2007-08 p	
				sept	dec	mar	june	sept	dec
production									
iron ore and concentrate a									
Western Australia s	kt	258 394	281 117	70 835	70 804	65 505	73 973	71 954	78 404
South Australia	kt	3 490	4 698	1 078	1 150	1 189	1 282	1 574	2 494
Tasmania	kt	1 931	1 838	175	537	602	524	607	617
Northern Territory	kt	na	na	na	na	na	na	68	271
Australia s	kt	263 815	287 653	72 088	72 491	67 296	75 778	74 202	81 785
iron content s	kt	163 850	186 074	44 725	45 184	46 039	50 126	47 066	50 665
iron and steel bs	kt	7 866	8 010	2 021	2 006	1 982	2 001	2 058	2 006
exports									
quantity									
iron ore and pellets									
pellets, sinters and briquettes	kt	1 083	718	75	113	335	195	288	356
finest	kt	168 414	183 106	45 152	48 420	41 555	47 978	48 191	51 706
lump and run of mine	kt	69 884	73 541	19 003	18 798	16 734	19 006	19 956	20 901
total iron ore and pellets									
China c	kt	123 489	135 291	32 435	36 703	30 810	35 343	35 971	40 482
Chinese Taipei	kt	8 880	9 818	2 520	2 407	2 333	2 559	2 649	2 471
European Union 25	kt	9 384	7 602	2 026	2 109	1 797	1 669	1 693	1 068
Japan	kt	72 313	75 080	19 538	19 002	16 826	19 713	20 410	20 431
Korea, Rep. of	kt	24 705	28 973	7 525	6 863	6 806	7 780	7 659	8 312
other	kt	610	602	187	247	52	116	53	200
total	kt	239 380	257 365	64 230	67 331	58 624	67 179	68 436	72 963
iron content	kt	148 882	159 977	39 945	41 831	36 450	41 751	42 561	45 365
steel									
iron and steel	kt	2 428	2 648	633	674	678	663	618	562
scrap	kt	1 876	1 328	223	405	234	465	297	438
value									
iron ore and pellets									
pellets, sinters and briquettes	\$m	87	42	1	6	23	12	21	21
finest	\$m	8 269	10 136	2 525	2 650	2 280	2 681	2 683	2 824
lump and run of mine	\$m	4 499	5 334	1 384	1 359	1 199	1 392	1 449	1 440
total	\$m	12 854	15 512	3 909	4 016	3 502	4 085	4 152	4 284
steel									
iron and steel	\$m	1 674	1 743	421	447	444	431	401	393
scrap	\$m	467	607	105	177	122	204	152	200
total	\$m	2 141	2 350	526	624	566	634	554	593
imports									
quantity									
iron ore d	kt	5 026	4 722	1 265	1 683	757	1 017	1 098	1 345
iron and steel	kt	2 191	2 318	617	530	657	513	489	405
ferroalloys	kt	57	87	38	17	14	17	17	18
value									
iron ore d	\$m	222	338	72	117	60	89	84	92
iron and steel	\$m	2 075	2 479	539	610	721	609	562	493
ferroalloys	\$m	123	116	28	35	22	30	33	35
total	\$m	2 420	2 934	640	762	804	728	679	620
prices									
Japanese negotiated e	US\$/dltu	62.72	74.63	74.63	74.63	74.63	81.73	81.73	81.73

a For use in iron and steel making; includes pellets for Tasmania. **b** Includes recovery from scrap. **c** Excludes Hong Kong. **d** Includes limonite ore used in the production of refined nickel products. **e** Indicative price: Australian hematite fines to Japan (fob), per dry long tonne unit, for Japanese fiscal year commencing 1 April. **p** Preliminary. **s** ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; ABARE.

14 lead

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
production									
mine s									
lead ore and concentrates	kt	1 063	908	235	212	242	218	219	226
lead content of all minerals produced									
New South Wales	kt	109	91	28	27	16	20	20	16
Queensland	kt	532	415	106	85	112	112	115	121
Western Australia	kt	62	74	19	24	23	8	9	7
Tasmania	kt	28	29	7	7	7	8	8	7
Northern Territory	kt	31	33	7	9	8	8	8	9
Australia	kt	762	641	167	152	166	156	160	160
smelter and refinery									
refined lead (primary) ^b	kt	234	191	24	59	47	60	44	51
domestic despatches									
refined lead	kt	28	26	8	5	6	7	7	5
exports									
quantity									
lead concentrate									
China	kt	249	166	46	61	43	16	19	31
European Union 25	kt	58	54	11	16	15	12	13	28
Japan	kt	64	53	16	10	10	16	5	22
Korea, Rep. of	kt	132	117	20	34	36	26	26	35
other	kt	0	33	9	5	0	19	6	6
total	kt	502	422	102	126	104	89	70	121
lead bullion ^c									
United Kingdom	kt	140	112	37	36	21	18	46	44
total	kt	140	112	37	36	21	18	46	44
refined lead									
Chinese Taipei	kt	9	5	0	3	1	1	2	1
India	kt	33	41	9	10	12	10	7	8
Indonesia	kt	13	6	3	2	1	1	1	2
Korea, Rep. of	kt	24	42	8	12	12	10	12	10
Thailand	kt	29	12	2	3	2	4	4	6
other	kt	135	109	21	25	33	31	30	21
total	kt	244	215	43	55	62	56	57	48
lead content of all primary materials exported ^{ds}	kt	756	635	155	180	157	142	158	173
value									
lead concentrate	\$m	711	855	187	202	233	232	175	347
lead bullion	\$m	235	268	79	82	57	50	154	172
refined lead	\$m	350	457	62	111	140	143	195	190
total	\$m	1 296	1 579	328	395	431	425	525	709
prices									
LME cash ^e	US\$/t	1 061	1 694	1 186	1 629	1 646	2 096	3 084	3 690
Australia ^f	A\$/t	1 775	2 347	1 759	2 311	2 535	2 785	3 716	4 095

^a Metallic content. ^b Includes lead content of lead alloys from primary sources. ^c Includes a substantial precious metal content, mainly silver. ^d Lead content of all ores, concentrates, slags, residues, bullion, and refined lead. ^e Based on LME cash, midday, standard grade, minimum 25 tonne warrants. ^f Pasmico 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

		2005-06	2006-07 p	quarter						
				2006-07 p				2007-08 p		
				sept	dec	mar	june	sept	dec	
production										
manganese ore and concentrate										
Western Australia	s	kt	1 056	1 217	301	273	328	315	313	332
Northern Territory		kt	3 032	3 854	943	979	901	1 031	1 043	1 027
Australia	s	kt	4 088	5 071	1 244	1 252	1 229	1 345	1 355	1 360
manganese content	s	kt	1 962	2 434	597	601	590	646	651	653
exports a										
quantity										
manganese ore and concentrate		kt	3 215	4 667	1 087	1 224	1 107	1 248	1 193	1 293
value										
manganese ore and concentrate		\$m	424	482	113	124	109	136	209	258
prices										
Japanese negotiated	b	US\$/mtu	3.98	3.00	3.00	3.00	3.00	2.70	2.70	2.70
		A\$/t	256.19	183.51	190.53	187.38	183.53	156.17	153.16	145.76

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

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
production as mine									
nickel content									
Western Australia	kt	186	192	47	51	47	47	44	45
Australia	kt	186	192	47	51	47	47	44	45
smelter and refinery									
intermediate nickel	kt	47	57	14	16	15	13	13	12
refined nickel, class 1 ^b	kt	105	104	27	28	23	25	27	25
refined nickel, class 2 ^c	kt	10	15	2	3	5	4	2	3
exports ^s									
quantity									
nickel ^d	kt	170	215	51	59	52	52	51	50
value									
ores and concentrates	\$m	646	1 275	202	349	327	396	223	204
intermediate products ^e	\$m	172	1 656	322	405	489	439	268	240
refined nickel, class 1 ^b	\$m	2 149	4 916	1 055	1 195	1 202	1 463	950	828
refined nickel, class 2 ^c	\$m	161	534	71	110	178	176	53	81
total	\$m	3 128	8 381	1 650	2 060	2 197	2 474	1 495	1 353
imports									
value									
primary nickel products ^f	\$m	128	257	41	77	54	84	57	88
prices									
LME cash ^g	US\$/t	15 488	37 942	29 141	33 134	41 439	48 055	30 190	29 219
	A\$/t	20 778	48 353	38 558	43 116	52 813	57 908	35 678	32 863

^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

		2005-06	2006-07 p	quarter					
				2006-07 p				2007-08 p	
				sept	dec	mar	june	sept	dec
production									
field									
crude oil s	ML	17 247	21 153	5 763	5 403	4 776	5 211	4 759	4 597
condensate s	ML	7 069	7 404	1 902	1 894	1 782	1 826	1 977	1 792
total s	ML	24 316	28 557	7 665	7 297	6 558	7 037	6 736	6 389
production rate s	'000 bbl/day	425	499	536	510	458	492	471	447
LPG	ML	4 722	4 550	1 293	1 143	1 037	1 077	1 145	1 002
ethane a	Mm ³	456	581	128	112	89	253	124	110
natural gas a	Mm ³	38 016	39 331	10 275	9 812	9 059	10 184	10 681	10 034
refinery									
refinery input	ML	36 895	39 465	9 340	10 394	9 874	9 857	9 845	9 623
refinery output									
LPG	ML	1 125	1 387	348	385	343	311	341	353
automotive gasoline	ML	16 528	17 732	4 412	4 529	4 263	4 528	4 738	4 288
aviation gasoline	ML	119	119	31	33	23	33	26	27
aviation turbine fuel	ML	5 216	5 332	1 319	1 449	1 277	1 288	1 295	1 333
kerosine	ML	12	2	1	0	0	1	1	0
heating oil	ML	102	86	39	12	16	20	33	28
automotive diesel oil	ML	10 154	11 055	2 315	2 659	2 908	3 173	3 133	3 156
industrial and marine									
diesel fuel	ML	31	21	5	7	5	5	5	7
fuel oil (excl. refinery fuel)	ML	1 048	942	247	219	216	260	225	242
lubricating oil basestock	ML	163	146	35	41	31	39	35	18
bitumen	ML	831	1 356	210	459	352	336	331	434
other products	ML	946	616	127	210	123	156	180	199
total	ML	38 597	41 461	9 087	10 001	9 558	10 149	10 343	10 084
sales									
LPG									
automotive use b	ML	2 564	2 335	591	579	561	603	582	566
total	ML	4 050	4 038	1 090	938	940	1 070	1 118	1 004
automotive gasoline									
lead replacement c	ML	15	0	0	0	0	0	0	0
premium unleaded	ML	1 867	1 819	427	475	467	449	458	469
regular unleaded	ML	15 962	15 892	4 040	4 069	3 938	3 845	3 905	3 936
other unleaded d	ML	1 204	1 539	324	380	415	421	500	566
total	ML	19 048	19 251	4 792	4 923	4 820	4 716	4 863	4 971
aviation gasoline	ML	86	90	23	22	21	23	23	22
aviation turbine fuel	ML	5 359	5 837	1 487	1 519	1 416	1 416	1 477	1 546
kerosine	ML	27	32	6	2	13	11	11	9
heating oil	ML	25	15	5	1	3	5	4	2
automotive diesel oil	ML	15 804	17 028	4 131	4 419	4 156	4 322	4 407	4 666
industrial and marine									
diesel fuel	ML	19	15	5	5	2	3	3	3
fuel oil	ML	1 586	1 513	373	371	394	375	383	406
lubricating oil and greases	ML	451	421	107	108	103	104	110	105
bitumen	ML	805	808	162	240	226	180	150	216
other products	ML	973	699	230	233	173	63	64	63
total	ML	48 234	49 746	12 409	12 781	12 267	12 288	12 613	13 014

continued

17 petroleum

continued

		2005-06	2006-07 p	quarter					
				2006-07 p				2007-08 p	
				sept	dec	mar	june	sept	dec
exports									
quantity									
crude oil and other refinery feedstock									
China	ML	404	518	100	104	206	108	0	378
Chinese Taipei	ML	346	446	105	215	7	119	125	8
Japan	ML	2 201	1 957	466	466	543	481	650	650
Korea, Rep. of	ML	2 725	3 873	647	1 243	1 394	588	1 272	1 069
New Zealand	ML	465	1 045	340	68	237	400	147	46
Singapore	ML	3 110	3 752	1 297	1 072	669	714	520	494
United States	ML	297	190	92	99	0	0	0	360
other	ML	3 478	4 183	1 016	949	895	1 324	1 302	1 050
total	ML	13 026	15 965	4 063	4 216	3 951	3 734	4 017	4 054
LNG	Mt	12.50	15.20	3.45	3.90	3.95	3.90	3.40	3.70
LPG	ML	2 800	2 824	731	814	593	686	788	610
refinery products									
automotive gasoline	ML	714	771	243	200	134	195	271	182
aviation turbine fuel	ML	127	120	27	43	23	27	38	26
diesel fuel d	ML	419	288	87	55	90	56	76	139
fuel oil	ML	490	209	32	60	73	44	85	61
aviation gasoline	ML	85	81	56	10	8	7	32	60
lubricants	ML	179	231	39	57	50	85	46	37
other products	ML	89	62	22	15	17	8	7	15
total	ML	2 102	1 762	505	440	395	421	555	520
ships' and aircraft stores									
aviation turbine fuel	ML	1 893	1 893	473	473	473	473	473	473
fuel oil	ML	259	252	64	63	63	63	63	63
other products	ML	11	11	3	2	2	3	6	6
total	ML	2 163	2 156	540	539	538	539	542	542
value									
crude oil and other refinery feedstock									
	\$m	6 638	8 317	2 316	2 070	1 922	2 009	2 234	2 539
LNG	\$m	4 416	5 222	1 362	1 396	1 275	1 188	1 173	1 430
LPG	\$m	1 002	1 038	288	275	218	257	305	276
refinery products									
automotive gasoline	\$m	419	468	150	108	78	132	172	120
aviation turbine fuel	\$m	80	74	17	27	13	16	25	19
diesel fuel d	\$m	238	188	64	34	54	36	54	92
fuel oil	\$m	215	84	13	24	29	19	35	23
aviation gasoline	\$m	54	69	48	8	7	6	22	41
lubricants	\$m	139	157	32	37	35	54	37	33
other products	\$m	52	57	17	14	13	12	11	14
total	\$m	1 195	1 098	342	252	229	275	356	342
total	\$m	13 251	15 675	4 309	3 993	3 644	3 729	4 069	4 586
ships' and aircraft stores									
aviation turbine fuel	\$m	1 206	1 176	326	276	284	290	293	325
fuel oil	\$m	107	108	29	27	26	26	26	27
other products	\$m	9	11	3	2	2	3	6	5
total	\$m	1 322	1 295	358	305	312	320	326	357

continued

17 petroleum

continued

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
imports									
quantity									
crude oil and other refinery feedstock									
Indonesia	ML	3 929	3 391	551	885	1 119	836	1 020	743
Malaysia	ML	3 976	3 730	585	905	947	1 293	1 245	853
Middle East									
Qatar	ML	0	106	0	0	106	0	0	0
Saudi Arabia	ML	1 602	1 151	190	354	389	218	157	287
United Arab Emirates	ML	863	2 971	876	489	592	1 013	1 056	990
other	ML	199	118	76	42	0	0	0	0
total Middle East	ML	2 664	4 346	1 142	885	1 087	1 231	1 213	1 276
New Zealand	ML	638	635	92	99	173	271	425	472
Papua New Guinea	ML	2 386	2 059	472	472	572	543	731	629
Singapore	ML	829	841	160	282	185	215	156	251
Viet Nam	ML	6 708	6 677	2 057	1 652	1 745	1 224	1 478	2 113
other	ML	3 286	3 665	861	1 051	773	980	701	747
total	ML	24 416	25 345	5 921	6 230	6 600	6 594	6 969	7 083
refined products									
LPG	ML	599	748	177	254	78	239	268	173
automotive gasoline	ML	3 687	2 912	547	823	830	712	524	705
aviation turbine fuel	ML	817	1 045	262	177	292	314	378	380
diesel fuel ^d	ML	6 122	5 439	1 311	1 342	1 113	1 672	1 506	1 839
fuel oil	ML	1 418	1 363	290	269	353	451	291	471
lubricants	ML	370	365	99	81	93	92	94	105
other products	ML	2 111	6 414	1 502	1 516	1 616	1 780	1 705	1 075
total	ML	15 124	18 286	4 188	4 462	4 377	5 260	4 765	4 747
value									
crude oil and other refinery feedstock									
	\$m	12 820	13 360	3 528	3 061	3 196	3 574	3 880	4 359
refined products									
LPG	\$m	198	261	65	85	27	84	101	77
automotive gasoline	\$m	2 342	1 872	407	481	496	487	345	506
aviation turbine fuel	\$m	527	668	191	108	173	196	245	275
diesel fuel ^d	\$m	4 071	3 466	954	819	636	1 058	988	1 303
fuel oil	\$m	569	536	123	101	129	183	127	227
lubricants	\$m	418	495	132	118	125	120	112	120
other products	\$m	637	1 285	298	308	320	359	315	240
total	\$m	8 761	8 583	2 169	2 021	1 905	2 488	2 235	2 747
total	\$m	21 581	21 943	5 697	5 082	5 101	6 062	6 115	7 106
prices									
Dubai	US\$/bbl	58.30	60.66	66.40	57.63	54.03	64.58	70.33	82.45
West Texas intermediate	US\$/bbl	64.22	63.30	70.42	59.96	58.02	64.79	75.35	87.50
Brent	US\$/bbl	62.44	63.48	69.62	59.68	56.80	67.81	75.06	86.50
Tapis	US\$/bbl	66.72	69.32	75.43	63.32	63.55	74.99	79.64	93.34
world trade weighted average	US\$/bbl	57.25	59.45	65.70	54.99	52.50	64.62	72.15	81.35
	A\$/bbl	76.80	75.77	86.93	71.56	66.91	77.87	85.27	91.49

^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 Leaded petrol phased out as at 1 January 2002. Lead replacement petrol (LRP) introduced as at 1 January 2002. ^d Includes automotive diesel oil and industrial and marine diesel fuel. ^e Data not available from January to December 2002 due to confidentiality restrictions. ^p Preliminary. ^s ABARE estimate.

Sources: Australian Bureau of Statistics, Canberra; Department of Resources, Energy and Tourism, Canberra; US Department of Energy, *Energy Information Administration*; Tokyo Commodity Exchange; ABARE.

18 petroleum production, by basin

	crude oil ML	condensate ML	total crude oil and condensate		LPG (naturally occurring) ^a	ethane ^a Mm ³	natural gas ^a
			ML	'000 bbl/day	ML		Mm ³
september quarter 2007							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	2.9
Amadeus	13.3	0.0	13.3	0.9	0.0	0.0	132.3
Bonaparte	343.4	32.8 s	376.2 s	26.3 s	0.0	0.0	0.0
Bowen-Surat	2.8	5.7	8.5	0.6	6.9	0.0	166.2
Canning	1.1	0.0	1.1	0.1	0.0	0.0	0.0
Carnarvon							
Barrow Island	93.4	0.0	93.4	6.5	0.0	0.0	502.8
North West Shelf	1 171.8 s	1 510.1	2 681.9 s	187.4 s	429.5	0.0	6 187.0
other	1 582.7 s	44.0	1 626.7 s	113.7 s	0.0	0.0	198.9
Cooper-Eromanga							
Queensland	205.3	40.2	245.6	17.2	0.0	0.0	0.0
South Australia	297.1	59.4	356.5	24.9	137.3	66.5	906.5
Gippsland	860.1	283.9	1 144.0	80.0	571.6	57.2	2 497.5
Otway	0.0	0.3	0.3	0.0	0.0	0.0	5.7
Perth	187.9	0.7	188.7	13.2	0.0	0.0	81.6
total	4 758.9 s	1 977.2 s	6 736.1 s	470.8 s	1 145.3	123.7	10 681.4
december quarter 2007 p							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	2.9
Amadeus	13.6	0.0	13.6	1.0	0.0	0.0	137.4
Bonaparte	135.6	0.0 s	135.6 s	9.5 s	0.0	0.0	0.0
Bowen-Surat	3.9	5.2	9.1	0.6	5.9	0.0	152.9
Canning	1.2	0.0	1.2	0.1	0.0	0.0	0.0
Carnarvon							
Barrow Island	361.3	0.0	361.3	25.2	0.0	0.0	499.4
North West Shelf	1 145.9 s	1 485.6	2 631.5 s	183.9 s	418.8	0.0	6 424.0
other	1 402.8 s	40.7	1 443.4 s	100.9 s	0.0	0.0	269.4
Cooper-Eromanga							
Queensland	231.8	40.6	272.5	19.0	0.0	0.0	0.0
South Australia	345.8	45.4	391.1	27.3	140.1	64.1	679.0
Gippsland	767.9	174.1	942.0	65.8	437.4	46.4	1 789.4
Otway	0.0	0.3	0.3	0.0	0.0	0.0	5.8
Perth	187.4	0.5	187.9	13.1	0.0	0.0	73.8
total	4 597.1 s	1 792.4 s	6 389.5 s	446.6 s	1 002.3	110.5	10 034.0
2006-07							
Adavale	0.0	0.0	0.0	0.0	0.0	0.0	11.6
Amadeus	54.8	0.0	54.8	1.0	0.0	0.0	531.8
Bonaparte	1 469.7	394.0 s	1 863.7 s	32.6 s	0.0	0.0	0.0
Bowen-Surat	21.0	21.2	42.2	0.7	24.3	0.0	555.0
Canning	2.4	0.0	2.4	0.0	0.0	0.0	0.0
Carnarvon							
Barrow Island	389.7	8.5	398.1	7.0	0.0	0.0	1 937.3
North West Shelf	5 849.7 s	5 692.2	11 541.9 s	201.7 s	2 067.3	0.0	23 802.9
other	7 043.9 s	134.2	7 178.1 s	125.4 s	0.0	0.0	1 145.2
Cooper-Eromanga							
Queensland	791.3	166.8	958.2	16.7	0.0	0.0	0.0
South Australia	1 116.1	238.6	1 354.7	23.7	550.5	249.2	3 542.1
Gippsland	3 598.1	743.8	4 341.9	75.9	1 907.8	331.7	7 415.9
Otway	0.0	1.8	1.8	0.0	0.0	0.0	76.6
Perth	816.4	2.6	819.0	14.3	0.0	0.0	313.1
total	21 153.1 s	7 403.7 s	28 556.8 s	499.0 s	4 550.0	580.9	39 331.3

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

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

19 sales of petroleum products, by state marketing area

	NSW ^a	Vic.	QLD	WA	SA	Tas.	NT	Aust.
	ML	ML	ML	ML	ML	ML	ML	ML
december quarter 2007 p								
LPG ^b								
automotive use ^c	162	231	64	49	56	3	2	566
total	293	358	154	83	92	17	7	1 004
automotive gasoline								
premium unleaded	140	107	117	56	28	16	5	469
regular unleaded	1 211	1 038	855	412	289	100	33	3 936
other unleaded ^d	215	100	189	37	21	2	0	566
total	1 566	1 245	1 161	506	338	118	38	4 971
of which sales to retailers	1 224	987	755	409	255	53	19	3 701
aviation gasoline	4	3	7	4	1	0	2	22
aviation turbine fuel	694	239	326	180	61	9	36	1 546
kerosine	1	0	7	0	0	0	0	9
heating oil	1	0	0	0	0	1	0	2
automotive diesel oil	942	769	1 315	1 054	311	96	179	4 666
of which sales to retailers	328	300	307	192	68	9	18	1 223
industrial and marine diesel fuel	2	0	1	0	0	0	0	3
fuel oil ^e	129	95	20	44	0	0	118	406
lubricating oil and greases	28	23	28	16	8	2	2	105
bitumen	46	55	79	16	14	4	2	216
other products ^f	31	14	11	4	3	0	1	63
total	3 736	2 803	3 108	1 905	828	248	385	13 014
2006-07								
LPG ^b								
automotive use ^c	632	975	311	173	220	20	5	2 335
total	1 163	1 497	622	316	353	66	21	4 038
automotive gasoline								
premium unleaded	590	393	428	218	108	66	16	1 819
regular unleaded	4 962	4 041	3 504	1 662	1 202	393	129	15 892
other unleaded ^d	545	347	482	98	61	7	0	1 539
total	6 097	4 780	4 413	1 978	1 371	465	146	19 251
of which sales to retailers	4 945	3 784	3 085	1 690	1 049	215	56	14 825
aviation gasoline	16	15	27	17	6	2	8	90
aviation turbine fuel	2 376	1 085	1 099	881	194	31	171	5 837
kerosine	5	4	20	2	0	1	1	32
heating oil	5	3	1	0	3	3	0	15
automotive diesel oil	3 617	2 753	4 890	3 727	1 133	360	547	17 028
of which sales to retailers	1 225	1 105	1 078	672	258	39	35	4 412
industrial and marine diesel fuel	8	0	6	0	0	0	0	15
fuel oil ^e	484	252	103	168	0	19	486	1 513
lubricating oil and greases	109	92	119	59	29	7	5	421
bitumen	177	180	279	98	52	17	5	808
other products ^f	98	497	75	18	10	1	1	699
total	14 155	11 158	11 655	7 264	3 151	972	1 392	49 746

^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

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
production									
single superphosphate ^{as}	kt	1 309	944	246	291	111	296	186	558
imports									
quantity									
phosphate rock									
China	kt	86	23	1	0	22	1	1	30
Morocco	kt	405	343	104	127	17	95	50	186
Nauru	kt	0	27	0	0	0	27	27	27
Togo	kt	48	0	0	0	0	0	0	0
other	kt	116	79	18	18	17	25	15	36
total	kt	655	472	123	146	55	148	93	279
phosphates									
diammonium ^b	kt	202	83	0	0	54	29	6	68
monammonium ^c	kt	528	443	50	11	239	143	21	122
high analysis ^d	kt	310	166	6	3	50	107	0	15
value									
phosphate rock	\$m	42	32	8	8	4	11	7	23
phosphates									
diammonium ^b	\$m	74	32	0	0	19	13	3	36
monammonium ^c	\$m	190	182	19	4	89	69	9	60
high analysis ^d	\$m	59	54	2	1	11	40	0	6
prices									
Australia ^e	A\$/t	16.17	14.74	15.11	17.40	12.98	13.49	13.38	12.36

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

Sources: Australian Bureau of Statistics, Canberra; ABARE.

21 salt

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
production									
Australia ^{as}	kt	11 467	11 209	2 477	3 072	2 680	2 980	2 890	2 890
exports									
quantity									
bulk, bagged and table	kt	10 776	10 749	2 389	2 964	2 575	2 821	2 396	2 915
value									
bulk, bagged and table	\$m	229	239	54	62	60	62	53	61
prices									
Australia ^b	A\$/t	21.29	22.24	22.73	21.08	23.33	22.04	21.92	21.00

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

Sources: Australian Bureau of Statistics, Canberra; ABARE.

22 silver

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
production									
mine s									
silver content of all minerals produced									
New South Wales	t	96	81	25	23	14	19	13	24
Queensland	t	1 862	1 347	315	253	400	379	379	370
Western Australia	t	103	85	17	24	17	27	42	27
South Australia	t	34	28	7	8	6	7	7	7
Tasmania	t	86	96	21	22	27	26	25	26
Northern Territory	t	38	38	9	10	10	9	9	10
Australia	t	2 218	1 674	393	340	474	467	475	464
refinery									
refined silver	t	655	618	141	165	156	156	174	138
exports									
quantity									
refined silver bullion	t	482	431	95	104	106	126	91	90
value									
refined silver ^a	\$m	197	221	48	54	52	67	49	46
imports									
value									
refined silver bullion	\$m	33	98	28	23	42	4	4	21
prices									
world ^b	US\$/oz	928	1 274	1 170	1 262	1 331	1 334	1 270	1 422
Australia ^c	A\$/kg	399	520	496	526	542	515	480	514

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

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

23^{tin}

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
production									
mine									
tin content of all minerals produced									
Queensland ^s	t	282	1 912	202	607	556	548	391	550
Western Australia ^s	t	590	149	60	49	30	10	0	0
Tasmania	t	933	0	0	0	0	0	0	0
Australia ^s	t	1 805	2 061	262	656	586	558	391	550
smelter and refinery									
refined tin (primary) ^s	t	736	321	106	97	68	50	0	0
domestic despatches ^s									
tin concentrate	t	788	196	80	65	40	11	na	na
tin content	t	590	147	60	49	30	8	na	na
exports									
quantity									
tin concentrate	t	2 186	3 172	370	731	1 105	966	669	1 283
refined tin	t	395	36	1	2	28	6	181	3
tin content of primary materials exported ^{bs}	t	1 556	1 867	221	433	663	550	569	747
value									
tin concentrate	\$m	9	25	2	5	9	8	6	7
refined tin	\$m	3	0	0	0	0	0	3	0
total	\$m	12	25	2	5	9	8	9	7
imports									
quantity									
refined tin	t	618	574	134	182	137	121	126	127
value									
refined tin	\$m	6	8	1	2	2	2	2	2
prices									
LME ^c	US\$/t	7 403	11 455	8 653	10 335	12 729	14 103	14 983	16 342

^a Primary and secondary. ^b Tin content of tin ores and concentrates and refined tin. ^c LME official close. ^p Preliminary. ^s ABARE estimate. ^{na} Not available.
Sources: Australian Bureau of Statistics, Canberra; London Metal Exchange; ABARE.

24 titanium minerals

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
production									
ilmenite concentrate									
New South Wales ^s	kt	55	179	43	32	39	64	47	57
Queensland ^s	kt	165	177	51	43	39	43	45	53
Western Australia	kt	1 965	2 046	538	521	518	469	487	472
Northern Territory	kt	0	1	0	0	0	0	0	1
Australia ^s	kt	2 185	2 403	632	598	597	577	580	584
leucoxene concentrate									
New South Wales ^s	kt	14	69	10	18	11	29	23	20
Victoria	kt	0	1	0	0	0	1	0	1
Western Australia	kt	74	104	31	29	22	22	18	21
Northern Territory	kt	0	1	0	0	0	0	0	1
Australia ^s	kt	87	174	41	48	34	52	41	43
rutile concentrate									
New South Wales ^s	kt	2	56	15	16	12	13	16	16
Victoria	kt	0	22	0	0	6	16	18	19
Queensland ^s	kt	70	71	21	16	17	17	20	25
Western Australia	kt	112	124	33	35	29	27	26	30
Northern Territory	kt	0	2	0	1	1	1	1	1
Australia ^s	kt	184	277	69	68	65	75	81	92
synthetic rutile ^s	kt	711	721	183	181	171	186	183	186
titanium dioxide pigment ^s	kt	208	207	49	55	51	52	53	52
exports									
quantity									
ilmenite concentrate ^a	kt	722	999	270	312	248	169	224	283
leucoxene concentrate	kt	86	123	28	23	46	26	47	4
rutile concentrate ^s	kt	169	307	67	80	77	82	87	99
synthetic rutile ^s	kt	472	508	140	131	112	126	131	128
titanium dioxide pigment	kt	177	171	44	39	40	48	45	45
value									
ilmenite concentrate ^a	\$m	76	113	31	33	28	20	22	36
leucoxene concentrate	\$m	25	35	11	7	10	8	9	2
rutile concentrate ^s	\$m	138	259	56	66	64	74	66	72
synthetic rutile ^s	\$m	321	361	97	91	78	96	82	78
titanium dioxide pigment	\$m	441	408	108	96	97	107	101	94
prices ^b									
ilmenite concentrate									
bulk	A\$/t	106	113	116	107	115	117	100	na
leucoxene concentrate									
bulk	A\$/t	226	249	348	258	196	230	166	na
bagged	A\$/t	537	679	738	677	688	639	629	604
rutile concentrate									
bagged	A\$/t	897	861	907	867	884	802	770	734
titanium dioxide pigment	A\$/t	2 486	2 391	2 473	2 454	2 402	2 253	2 245	2 117

^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

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
production									
mine									
uranium oxide (U ₃ O ₈)	t	9 974	9 594	2 127	2 715	2 081	2 670	2 473	2 921
uranium (U content)									
South Australia	t	4 062	3 674	868	893	912	1 001	941	1 160
Northern Territory	t	4 396	4 461	935	1 409	853	1 264	1 156	1 317
Australia	t	8 458	8 135	1 804	2 302	1 765	2 264	2 097	2 477
exports ^a									
quantity									
uranium oxide (U ₃ O ₈)	t	10 253	9 519	1 856	3 005	1 725	2 933	2 486	3 088
value									
uranium oxide (U ₃ O ₈)	\$m	546	660	125	194	142	198	285	259
prices									
uranium oxide (U ₃ O ₈)									
industry spot ^b	US\$/lb	36.79	81.17	50.00	65.00	85.00	124.67	98.33	89.33
Australia ^c	A\$/kg	53.24	69.28	67.40	64.61	82.43	67.54	114.50	83.93

^a Country details not available. ^b Average of weekly restricted spot price, published by The Ux Consulting Company. ^c Average export unit value. ^p Preliminary.
Sources: Australian Bureau of Statistics, Canberra; The Ux Consulting Company; ABARE.

26 zircon

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
production									
zircon concentrate									
New South Wales ^s	kt	0	37	4	11	10	12	12	12
Victoria	kt	0	49	0	0	13	35	39	40
Queensland ^s	kt	52	56	15	13	13	15	20	18
Western Australia	kt	390	416	106	113	98	99	73	83
Northern Territory	kt	0	7	0	2	3	2	3	4
Australia ^s	kt	442	565	125	139	137	163	148	157
exports									
quantity									
zircon concentrate ^s	kt	438	555	124	137	143	152	152	163
value									
zircon concentrate ^s	\$m	398	478	112	123	130	113	101	108
prices ^a									
zircon concentrate									
all grades - bagged	A\$/t	1 055	1 111	1 130	1 147	1 130	1 058	1 059	989

^a Average export unit value. ^p Preliminary. ^s ABARE estimate.
Sources: Australian Bureau of Statistics, Canberra; ABARE.

27 zinc

		2005-06	2006-07 ^p	quarter					
				2006-07 ^p				2007-08 ^p	
				sept	dec	mar	june	sept	dec
production									
mine s									
zinc ore and concentrates	kt	2 564	2 497	607	580	605	706	711	889
zinc content of all minerals produced									
New South Wales	kt	178	147	42	45	27	33	35	31
Queensland	kt	855	843	203	204	212	224	226	217
Western Australia	kt	113	144	22	48	25	49	57	51
South Australia	kt	0	4	0	0	0	4	13	73
Tasmania	kt	89	97	22	20	25	29	26	22
Northern Territory	kt	144	140	34	36	35	36	35	33
Australia	kt	1 380	1 375	324	352	324	375	392	427
smelter and refinery									
refined zinc (primary)	kt	446	496	121	129	119	127	127	129
domestic despatches									
refined zinc	kt	78	87	21	25	19	22	21	20
exports									
quantity									
zinc concentrates									
Belgium-Luxembourg	kt	10	51	13	11	14	13	26	22
China	kt	198	426	70	93	56	207	204	245
Germany	kt	30	36	0	31	6	0	0	0
Japan	kt	375	315	115	77	49	75	72	93
Korea, Rep. of	kt	504	343	64	111	77	90	79	97
Netherlands	kt	384	284	89	80	58	56	97	90
Spain	kt	120	257	50	84	61	63	44	90
Other	kt	201	236	41	43	78	74	48	37
Total	kt	1 821	1 948	441	531	398	578	568	675
refined zinc									
Chinese Taipei	kt	77	79	16	25	18	21	19	20
Hong Kong, China	kt	127	103	37	24	22	19	19	25
Indonesia	kt	11	17	5	4	3	4	4	3
Malaysia	kt	32	17	4	3	7	3	4	4
New Zealand	kt	13	12	2	3	3	3	3	3
United States	kt	10	5	0	5	0	0	0	0
Other	kt	118	141	18	27	46	50	63	39
Total	kt	388	374	83	92	99	100	111	95
zinc content of all primary materials exported ^{as}									
	kt	1 328	1 321	305	349	293	374	387	409
value									
zinc concentrates	\$m	1 542	2 590	609	771	514	696	686	637
refined zinc	\$m	998	1 707	361	437	485	424	454	316
total	\$m	2 540	4 298	970	1 208	999	1 121	1 140	954
prices									
LME cash ^b	US\$/t	2 118	3 672	3 363	4 207	3 456	3 664	3 229	2 623
Australia ^c	A\$/t	2 874	4 952	4 675	5 362	5 160	4 611	4 341	3 414

^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.