

MINERAL PRODUCTION

1974-75

Reference No. 10.51

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NOTE: *Inquiries concerning these statistics may be made in Canberra by telephoning Mr Brian Thorp on 52 5631 or, in each State capital, by telephoning the office of the Australian Bureau of Statistics.*

EXPLANATORY NOTES

General

This bulletin presents details of the quantity and value of minerals produced during the year ended June 1975 for each State and Territory and for Australia together with information for Australia for the four preceding years.

2. The period covered by the annual mining census and the annual mineral production collection is in general the twelve months ended 30 June. Where businesses find it impossible to supply information on this basis a substitute accounting period is used. These cases however, are relatively few and their inclusion is not thought to have any significant effect on the year under review or from year to year.

3. Minerals are classified into five major groups, namely metallic minerals, coal, petroleum, construction materials and other non-metallic minerals. In the statistics published in this bulletin the minerals are arranged in these five groups.

Sources of data

4. The statistics are derived from information supplied in returns to the various State Mines Departments and this Bureau, supplemented in some cases by information made available by the Department of National Resources, formerly the Department of Minerals and Energy, and from data compiled by this Bureau from other sources.

Scope of mineral statistics

5. Mineral production data are collected from establishments in the mining industry, from establishments classified to other industries which as subsidiary activities, carry out mining or quarrying (e.g. brick and cement manufacturing establishments extracting clays, limestone), and from itinerant and part-time miners.

Coverage of mineral statistics

6. As in past years, coverage is deficient in the case of some minerals, principally because of the difficulties in obtaining complete lists of producers and collecting satisfactory returns. The standard of coverage of the major groups of minerals is discussed below and the major deficiencies of coverage are outlined.

7. Coverage of metallic minerals, coal and petroleum is fairly complete, although adequate records of production of metallic minerals by fossickers and small parties are not always available.

8. There are problems in the coverage of non-metallic minerals in some States due to the fact that the extraction of some of these minerals is outside the administrative control of Mines Departments. Products chiefly affected are clays, limestone, salt, silica and loam and in these cases this Bureau, wherever possible, collects statistics direct from the producers. It is recognised that coverage of gemstone production is deficient to a considerable extent. This deficiency exists because production is usually on a small scale, and hence it is difficult to establish lists of producers and obtain statistical returns.

9. Coverage of construction materials is incomplete in most States. This is due primarily to the difficulties of obtaining complete lists of quarries (including those operated by governmental authorities) many of which operate intermittently or for relatively short periods at any one location. There is difficulty also in obtaining satisfactory returns from quarries operated in conjunction with some other activity, e.g. dam construction, brickmaking etc. Important deficiencies in the coverage of construction materials are sand and gravel in Western Australia.

10. As mentioned in paragraph 5, the mineral production statistics in this bulletin cover production (subject to the qualifications set out in paragraphs 6-9) by all producers whether classified as mining establishments or not. Table 4, however, in addition to giving details of total production during 1974-75 also gives details of the production attributable to establishments within the mining industry. Establishments classified to Australian Standard Industrial Classification (ASIC) classes 1601 (Petroleum exploration and other services to petroleum mining) and 1602 (Mineral exploration and services to mining n.e.c.), although included in the mining division of ASIC are excluded from the first column of this table.

Principles for measuring quantity and value of minerals

11. The quantities of individual minerals produced are recorded, in general, in the form in which the minerals are despatched from the mine or from associated treatment works in the locality of the mine. Thus for metallic minerals, the output is recorded as ore if no treatment is undertaken at or near the mine, and as concentrate if ore dressing operations are carried out in associated works in the locality of the mine. In addition to the basic quantity data, the content of metallic minerals (based on assay) are recorded; no allowance has been made for losses in smelting and refining and the quantities shown are therefore in general, greater than the contents actually recoverable.

12. In general, *quantity* statistics in this bulletin are quantities produced during the year. The figures cover, in addition to quantities produced for sale, quantities for transfer to other establishments of the enterprise and quantities for consumption by the mine itself. In the case of some minerals (e.g. those which do not have a marketable value until they are sold or despatched from a mine) the quantities reported are despatches or sales from the mine, rather than production, and the corresponding value of production refers to value of minerals despatched or sold.

13. The production of individual minerals is *valued* at the mine or at associated treatment works in the locality of the mine. This valuation is derived, in general, by valuing the quantity produced during the year at the unit selling value (including any subsidy) less any transport costs from the mine or associated treatment works to the point of sale.

World production of selected minerals

14. Table 7 shows for 1974 estimated world production of selected minerals, the proportion accounted for by Australian production, and the world's leading producer. Data relating to world production and to the world's leading producer are derived from the Bureau of Mineral Resources' publication *Australian Mineral Industry 1974 Review*.

Symbols and other usages

.. nil or less than half the final digit shown.

n.a. not available.

Any discrepancies between totals and sums of components in tables are due to rounding.

PUBLICATIONS

The following is a list of publications containing other mining and related statistics for Australia, published by this Bureau or in conjunction with the Bureau of Mineral Resources. A complete list of Bureau publications, including details of separate State publications and prices charged, is contained in *Publications of the Australian Bureau of Statistics* (Reference No. 1.8). Users are also referred to the annual reports of the State Mines Departments, which contain mineral statistics.

A. Commodity statistics

Monthly	<i>Minerals and Mineral Products</i> (Reference No. 10.19) (a) <i>Overseas Trade Statistics : Part 1 - Exports</i> (Reference No. 8.9) (a) <i>Overseas Trade Statistics : Part 2 - Imports</i> (Reference No. 8.10) (a) <i>Monthly Bulletin of Copper, Lead and Zinc Statistics</i> (a) (b) <i>Monthly Bulletin of Tin Statistics</i> (a) (b) <i>Monthly Bulletin of Metal and Mineral Prices</i> (a) (b)
Quarterly	<i>Australian Mineral Industry Quarterly Review and Statistics</i> (b) <i>Quarterly Bulletin of Mineral Sands Statistics</i> (a) (b) <i>Production Statistics</i> (Reference No. 12.14) (Manufacturing Commodities) (a)
Annual	<i>Manufacturing Commodities : Principal Articles Produced</i> (Reference No. 12.26) (a) <i>Overseas Trade</i> (Reference No. 8.11) <i>Overseas Trade (Preliminary) : Part 1 - Exports</i> (Reference No. 8.15) (a) <i>Overseas Trade (Preliminary) : Part 2 - Imports</i> (Reference No. 8.16) (a)

B. Exploration statistics

Quarterly	<i>Mineral Exploration (other than for petroleum), Expenditure by Principal Enterprises</i> (Reference No. 10.75) (a) <i>Petroleum Exploration</i> (Reference No. 10.76) (a)
Annual	<i>Mineral Exploration</i> (Reference No. 10.41) (a)

C. Industry and related statistics

Annual	<i>Mining Establishments : Summary of Operations (Preliminary)</i> (Reference No. 10.72) (a) <i>Mining Establishments : Details of Operations</i> (Reference No. 10.60) (a) <i>Manufacturing Establishments : Details of Operations</i> (Reference No. 12.29) <i>Foreign Ownership and Control of the Mining Industry 1972-73</i> (Reference No. 10.42) (a)
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D. General information and statistics

Annual	<i>Official Year Book, Australia</i> (Reference No. 1.1) (Mineral Industry Chapter) <i>Australian Mineral Industry Review</i> (b)
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(a) Available free of charge. (b) Published by the Bureau of Mineral Resources, Canberra.

TABLE 1. - MINERALS PRODUCED, AUSTRALIA

Mineral		Quantity					Value (\$'000)				
		1970-71	1971-72	1972-73	1973-74	1974-75	1970-71	1971-72	1972-73	1973-74	1974-75
METALLIC MINERALS											
Antimony -											
Concentrate	tonnes	887	611	1,440	1,346	1,555	422	176	546	932	1,904
Ore		2,934	n.a.	n.a.	n.a.	n.a.	83	n.a.	n.a.	n.a.	n.a.
Bauxite	'000 tonnes	11,043	13,697	14,702	18,545	22,205	n.a.	n.a.	n.a.	n.a.	n.a.
Beryllium ore	tonnes	28	61	118	180	6	9	16	23	23	
Bismuth concentrate	tonnes	1,896	1,281	1,609	2,701	4,388	2,672	5,066	6,813	7,609	14,085
Copper -											
Concentrate	tonnes	662,030	636,018	824,772	938,235	894,062	129,752	114,956	154,748	267,873	168,047
Ore (a)	"	30,783	18,890	12,504	23,252	15,336	n.a.	947	701	n.a.	766
Ore for fertiliser	"	304	152	3,048	1,516	1,000	18	6	9	5	3
Oxide	"	..	663	976	861	1,446	..	475	757	982	1,406
Precipitate	"	278	247	170	173	44	148	134	101	168	31
Gold -											
Bullion (b)	'000 grams	18,854	20,762	17,930	13,906	12,903	17,779	21,435	25,730	26,839	43,139
Ore	tonnes	1,087	..	..	116	236	3	..	..	3	8
Iron ore	'000 tonnes	57,110	62,103	74,645	91,508	98,159	343,682	372,483	395,189	427,518	613,169
Iron oxide for -											
Cement manufacture	tonnes	41,983	44,899	51,360	48,872	45,162	174	191	227	221	248
Coal washing	"	21,787	21,845	34,583	21,724	17,724	579	581	919	n.a.	607
Gas purification	"	310	164	626	521	..	1	1	4	4	..
Lead concentrate	tonnes	631,722	(c)622,592	(c)582,178	563,036	615,212	75,825	(c)69,340	(c)72,057	110,875	124,519
Lead-copper concentrate	tonnes	10,227	18,025	16,605	19,919	19,952	3,031	4,444	6,089	8,799	7,609
Lead ore (d)	tonnes	36,315	31,284	39,760	32,711	47,562	395	321	494	403	579
Lead-zinc middlings	tonnes	23,400	20,055	26,553	11,609	10,654	2,269	1,846	2,560	2,002	2,422
Manganese ore -											
Metallurgical grade	tonnes	785,840	1,163,614	1,295,357	1,619,168	1,409,683	10,852	n.a.	n.a.	n.a.	n.a.
Other grades	"	315	96	16	17	..					
Mineral sands -											
Ilmenite concentrate	tonnes	886,758	(e)705,259	(e)720,996	(e)676,566	(e)891,090	7,434	(e)8,071	(e)8,155	(e)7,953	(e)14,270
Leucoxene concentrate	"	12,863	12,343	10,465	11,374	17,559	975	1,089	772	1,060	2,079
Monazite concentrate	"	4,146	5,148	4,534	4,052	530	3,371	608	551	542	515
Rutile concentrate	"	374,768	355,675	318,698	308,050	334,205	37,214	41,023	36,510	36,750	53,669
Xenotime concentrate	"	..	42	14	17	10	16	54	18	22	7
Zircon concentrate	"	417,974	390,515	373,024	347,014	392,751	13,207	12,503	11,821	16,726	58,128
Molybdenite concentrate	tonnes	61	18	..	8	..	85	17	..	6	..
Nickel concentrate	tonnes	304,046	299,144	268,349	323,142	405,380	n.a.	n.a.	n.a.	n.a.	n.a.
Nickel ore	'000 tonnes	..	..	n.a.	..	1,042	..	..	n.a.	..	n.a.
Pyrite concentrate	tonnes	235,355	261,481	198,096	239,274	219,066	2,190	2,230	139	238	441
Silver gold concentrate	tonnes	..	..	..	..	54	..	..	..	..	12
Silver gold ore	tonnes	..	..	..	..	584	..	..	..	..	71
Silver ore	tonnes	18	..	..	..	129	3	..	..	..	1
Tantalite-columbite concentrate	kg	158,786	162,019	236,831	231,520	178,700	936	835	670	777	942
Tin concentrate	tonnes	15,951	19,722	22,513	20,040	19,552	25,533	30,406	32,282	43,448	49,138
Tin-copper concentrate	tonnes	4,367	5,187	4,586	3,241	2,506	905	659	516	860	390
Tungsten concentrates -											
Scheelite concentrate	tonnes	1,287	1,842	1,789	1,630	1,672	4,976	5,683	3,512	4,495	8,898
Wolfram concentrate	"	1,076	841	761	374	524	4,068	2,296	1,637	797	2,487
Wolfram ore	"	..	..	122	..	..	..	..	2	..	..
Zinc concentrate	tonnes	770,887	867,143	865,248	768,753	879,612	43,548	63,393	61,820	97,122	138,385
Zinc ore	tonnes	254	..	..	18,315	33,492	2	..	..	1,551	2,780
Total metallic minerals							845,423	921,642	995,416	1,281,782	1,573,087

For footnotes see page 7.

TABLE 1. - MINERALS PRODUCED, AUSTRALIA - continued

TABLE 1. - MINERAL PRODUCTION, 1970-75											
Mineral		Quantity					Value (\$'000)				
		1970-71	1971-72	1972-73	1973-74	1974-75	1970-71	1971-72	1972-73	1973-74	1974-75
COAL											
Black coal -											
Semi-anthracite	'000 tonnes	1	..	..	..	..	..	..	379,674	436,520	852,840
Bituminous	"	46,460	50,340	56,444	55,924	65,475	n.a.	n.a.	11,305	13,335	22,040
Sub-bituminous	"	3,259	3,208	3,311	3,420	4,667	n.a.	n.a.	..	..	..
Total	"	49,720	53,549	59,755	59,344	70,142	283,245	330,504	390,980	449,855	874,879
Underground	"	37,137	36,487	36,959	34,198	37,202	not available				
Open-cut	"	12,582	17,062	22,796	25,146	32,941					
Brown coal (lignite) (f)	"	19,168	19,998	20,922	23,258	24,441	19,052	21,768	24,716	27,251	40,556
Brown coal briquettes	"	1,391	1,308	1,228	1,164	1,092	10,614	11,280	9,173	11,011	11,391
Total coal							312,911	363,553	424,869	488,116	926,827
PETROLEUM (g)											
Crude oil	'000 cu.m	14,937	19,038	20,669	23,096	23,096	not available				
Natural gas	mil. cu.m	1,961	2,628	3,713	4,360	4,633					
Natural gas condensate (h)	cu.m	1,433	n.a.	n.a.	8,181	7,719					
Ethane	'000 cu.m	5,380	3,087	27,436	46,176	63,677					
Liquefied petroleum gases (i) -											
Propane	'000 cu.m	347	577	793	1,124	1,026	not available				
Butane	"	393	662	988	930	1,148					
Total petroleum							216,722	271,981	311,903	378,750	446,298
CONSTRUCTION MATERIALS (j)											
Sand (k)	'000 tonnes	17,143	19,501	21,869	24,684	24,807	n.a.	25,960	30,482	37,577	43,104
Gravel (k)	'000 tonnes	12,993	12,871	14,520	15,982	17,315	n.a.	21,009	23,678	27,821	35,127
Dimension stone	'000 tonnes	186	411	288	119	163	n.a.	1,690	1,828	1,368	1,696
Crushed and broken stone	'000 tonnes	50,419	50,475	51,037	54,803	57,337	n.a.	96,153	95,216	110,868	138,179
Other (decomposed rock, etc.)	'000 tonnes	28,208	26,405	42,113	33,264	33,697	n.a.	14,220	19,369	18,977	19,934
Total construction materials							144,708	159,031	170,484	196,611	238,044
OTHER NON-METALLIC MINERALS											
Asbestos -											
Chrysotile	tonnes	751	(k)3,077	32,358	37,651	36,558	170	(k)453	3,256	4,140	7,960
Barite	tonnes	54,008	23,750	23,175	6,436	12,013	476	202	208	98	303
Carbon dioxide		n.a.	n.a.	n.a.	n.a.	n.a.	42	38	47	52	45

For footnotes see page 7.

TABLE 1. - MINERALS PRODUCED, AUSTRALIA - continued

Mineral	Quantity					Value (\$'000)				
	1970-71	1971-72	1972-73	1973-74	1974-75	1970-71	1971-72	1972-73	1973-74	1974-75
OTHER NON-METALLIC MINERALS - continued										
Clays -										
Brick clay and shale	'000 tonnes	7,078	7,872	8,098	9,246	7,844	7,105	8,408	9,355	11,153
Bentonite	tonnes	103	91	77	79	177			4	17
Bentonitic clay	"	277	78	564	1,076	1,148			9	16
Cement clay and shale	tonnes	341,795	312,227	451,227	430,011	505,421			402	628
Damouritic clay	"	449	432	475	718	1,031			5	10
Fireclay n.e.l.	"	196,061	116,693	108,873	144,119	150,755	2,648	2,385	222	330
Fuller's earth	"	91	..	30	78	7			121	1
Kaolin (incl. ball clay) (i)	"	79,601	86,472	78,488	97,518	107,495			388	2,107
Pipe and tile clay	"	332,885	334,791	334,749	460,903	302,088			433	2,305
Stoneware clay	"	458,995	355,945	346,092	247,757	243,152			43	421
Diatomite	tonnes	2,399	1,758	4,792	8,313	6,035	20	17	43	70
Dolomite	tonnes	319,656	390,832	402,312	421,471	411,541	747	844	888	1,087
Felspar (incl. cornish stone)	tonnes	3,382	2,948	2,916	3,049	4,278	45	38	35	48
Fluorspar	tonnes	1,001	380	1,700	874	..	32	22	79	49
Garnet concentrate	tonnes	422	525	111	109	..	6	8	2	2
Gems										
Gypsum	tonnes	952,901	1,010,573	961,717	1,192,855	1,007,662	17,830	27,262	40,911	47,262
Limestone (incl. shell and coral)	'000 tonnes	10,447	10,154	10,960	11,312	11,209	2,577	2,819	2,826	3,665
Lithium ore (m)	tonnes	739	1,930	695	1	..	15,110	15,135	16,932	3,176
Lithia (Li ₂ O) content	units of 10kg	3,102	8,108	2,828	4	..	12	30	11	..
Magnesite, crude	tonnes	19,664	18,684	21,822	20,543	36,273	n.a.	n.a.	n.a.	n.a.
Mineral pigments - red ochre	tonnes	702	23	625	608	..	233	236	318	291
Peat (n)	tonnes	3,678	4,489	n.a.	3,747	3,384	7	..	10	6
Pebbles - for grinding	tonnes	1,677	1,927	1,509	1,611	998	62	87	n.a.	143
Perlite	tonnes	1,773	295	1,834	1,739	3,555	30	38	36	43
Phosphate rock	tonnes	9,164	2,512	1,494	1,484	37,016	18	3	11	32
Pyrophyllite	tonnes	6,828	6,972	12,718	11,357	14,264	27	10	6	6
Salt	'000 tonnes	3,774	3,503	3,671	4,683	5,057	68	58	112	103
Silica	tonnes	955,048	1,012,445	1,168,819	1,385,013	1,388,301	11,563	11,804	12,655	16,410
Sillimanite	tonnes	1,139	654	654	719	703	3,276	3,555	4,484	5,353
Talc (incl. steatite and chlorite)	tonnes	44,532	43,997	47,927	63,068	72,072	27	17	17	19
Vermiculite	tonnes	360	171	636	n.a.	n.a.	732	782	n.a.	1,363
							2	1	35	n.a.
Total non-metallic minerals							62,866	74,253	95,943	116,062
Total all minerals and construction materials							1,582,632	1,790,460	1,998,615	2,461,320
										3,304,637

(a) Includes copper slag. (b) Includes alluvial gold. (c) Excludes Western Australian production. (d) Includes silver-lead ore, silver-lead and lead slag. (e) Includes ilmenite from which titanium dioxide is not commercially extractable. In 1974-75 17,607 tonnes valued at \$84,560 were produced in N.S.W. and 90 tonnes valued at \$435 were produced in S.A. Beneficiated ilmenite is also included. (f) Excludes coal used in making briquettes. (g) Source : Department of National Resources and State Mines Departments. The values shown are estimates based on prices prescribed in legislation, quoted market prices and information from government departments. Includes values for crude oil, natural gas, natural gas condensate, ethane, propane and butane. (h) Sales - excludes condensate blended with other petroleum products. (i) Excludes refinery production. (j) Incomplete owing to difficulties of coverage in some States. See explanatory notes, page 2, paragraph 9. (k) Incomplete, excludes Western Australia. (l) Includes refined kaolin. (m) Used mainly for non-metallic purposes. (n) Comprises peat for fertiliser and peat moss.

TABLE 2. - MINERALS PRODUCED, 1974-75

Mineral		Quantity							Aust.
		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	
METALLIC MINERALS									
Antimony -									
Concentrate	tonnes	1,555	..	..	..	..	..	..	1,555
Ore	"	n.a.	n.a.	..	..	..	..	..	n.a.
Bauxite	'000 tonnes	10	..	10,849	..	7,115	..	4,231	22,205
Beryllium ore	tonnes	..	..	..	..	6	..	..	6
Bismuth concentrate	tonnes	4	..	..	..	..	..	4,384	4,388
Copper -									
Concentrate	tonnes	38,996	..	663,045	32,683	..	101,672	57,666	894,062
Ore	"	(a)174	..	15,162	..	..	..	..	(a)15,336
Ore for fertiliser	"	..	..	..	1,000	..	..	..	1,000
Oxide	"	21	..	..	1,425	..	..	..	1,446
Precipitate	"	16	..	24	4	..	..	..	44
Gold -									
Bullion (b)	'000 g.	11	249	921	..	8,298	2	3,422	12,903
Ore	tonnes	..	..	..	236	..	..	..	236
Iron ore	'000 tonnes	..	..	..	5,446	90,659	(c)2,052	..	98,159
Iron oxide for -									
Cement manufacture	tonnes	25,328	..	8,845	..	..	10,989	..	45,162
Coal washing	"	..	..	17,724	..	..	..	..	17,724
Lead concentrate	tonnes	330,125	..	271,871	..	18	12,457	741	615,212
Lead-copper concentrate	tonnes	..	..	..	..	..	19,952	..	19,952
Lead ore (d)	tonnes	142	..	47,400	20	..	..	..	47,562
Lead-zinc middlings	tonnes	10,654	..	..	..	..	..	..	10,654
Manganese ore -									
Metallurgical grade	'000 tonnes	..	..	..	..	..	..	1,410	1,410
Mineral sands (e) -									
Ilmenite concentrate (f)	tonnes	17,607	..	..	90	873,393	..	..	891,090
Leucocene concentrate	"	..	..	..	..	17,559	..	..	17,559
Monazite concentrate	"	822	..	23	..	2,526	..	..	3,371
Rutile concentrate	"	183,096	..	120,959	188	25,118	4,844	..	334,205
Xenotime concentrate	"	..	..	..	..	16	..	..	16
Zircon concentrate	"	189,854	..	107,570	126	87,641	7,560	..	392,751
Nickel concentrate	tonnes	..	..	..	..	405,380	..	..	405,380
Nickel ore	'000 tonnes	..	..	1,042	..	..	..	..	1,042
Pyrite concentrate	tonnes	..	..	592	..	..	218,474	..	219,066
Silver gold concentrate	tonnes	54	..	..	..	..	..	..	54
Silver gold ore	tonnes	584	..	..	..	..	..	..	584
Silver ore	tonnes	..	..	129	..	..	..	..	129
Tantalite-columbite concentrate	kg	..	..	..	..	178,700	..	..	178,700
Tin concentrate	tonnes	3,475	5	2,489	..	982	12,597	4	19,552
Tin-copper concentrate	tonnes	..	..	..	..	..	2,506	..	2,506
Tungsten concentrates -									
Scheelite concentrate	tonnes	..	..	..	..	..	1,672	..	1,672
Wolfram concentrate	"	..	..	214	..	..	310	..	524
Zinc concentrate	tonnes	549,874	..	220,945	..	..	108,793	..	879,612
Zinc ore	tonnes	..	..	..	33,493	..	..	..	33,493
COAL									
Black coal -									
Bituminous	'000 tonnes	42,482	..	22,855	..	..	138	..	65,475
Sub-bituminous	"	..	..	990	1,798	1,879	..	..	4,667
Total	"	42,482	..	23,845	1,798	1,879	138	..	70,142
Underground	"	33,098	..	3,433	..	533	138	..	37,202
Open cut	"	9,385	..	20,412	1,798	1,346	..	..	32,941
Brown coal (lignite) (g)	"	..	24,441	..	..	..	..	..	24,441
Brown coal briquettes	"	..	1,092	..	..	..	..	..	1,092
PETROLEUM (h)									
Crude oil	'000 cu.m	..	20,930	71	..	2,095	..	..	23,096
Natural gas	mil. cu.m	..	2,284	265	1,263	822	..	..	4,633
Natural gas condensate (i)	cu.m	..	..	2,684	..	5,035	..	..	7,719
Ethane (i)	'000 cu.m	..	63,677	..	..	..	..	..	63,677
Liquefied petroleum gases (j) -									
Propane	'000 cu.m	..	1,025	..	..	1	..	..	1,026
Butane	"	..	1,147	..	..	1	..	..	1,148

For footnotes see page 11.

TABLE 2. - MINERALS PRODUCED, 1974-75 - continued

Mineral	Value (\$'000)							
	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	Aust.
METALLIC MINERALS								
Antimony -								
Concentrate	1,904	..	..	..	..	..	..	1,904
Ore	n.a.	n.a.	..	..	..	..	..	n.a.
Bauxite	n.a.	..	n.a.	..	n.a.	..	n.a.	n.a.
Beryllium ore	..	..	..	..	1	..	..	1
Bismuth concentrate	11	..	..	..	..	..	14,074	14,085
Copper -								
Concentrate	5,610	..	119,524	6,170	..	25,476	11,267	168,047
Ore	(a)22	..	744	..	..	..	..	(a)766
Ore for fertiliser	..	..	..	3	..	..	..	3
Oxide	20	..	..	1,386	..	..	..	1,406
Precipitate	10	..	17	4	..	..	..	31
Gold -								
Bullion (b)	25	225	1,215	8	29,794	6	11,866	43,139
Ore	..	..	..	8	..	..	..	8
Iron ore	..	4	..	48,195	552,803	(c)12,167	..	613,169
Iron oxide for -								
Cement manufacture	137	..	47	..	..	64	..	248
Coal washing	..	..	607	..	..	..	..	607
Lead concentrate	69,499	..	51,112	..	3	2,540	1,365	124,519
Lead-copper concentrate	..	..	..	..	..	7,609	..	7,609
Lead ore (d)	6	..	569	4	..	..	..	579
Lead-zinc middlings	2,422	..	..	..	..	..	..	2,422
Manganese ore -								
Metallurgical grade	..	..	..	..	..	..	n.a.	n.a.
Mineral sands (e) -								
Ilmenite concentrate (f)	85	..	..	..	14,185	..	..	14,270
Leucosene concentrate	..	..	..	..	2,079	..	..	2,079
Monazite concentrate	125	..	3	..	387	..	..	515
Rutile concentrate	26,949	..	22,050	34	3,474	1,162	..	53,669
Xenotime concentrate	..	..	..	..	12	..	..	12
Zircon concentrate	28,135	..	17,126	28	10,799	2,040	..	58,128
Nickel concentrate	..	..	..	..	n.a.	..	..	n.a.
Nickel ore	..	..	n.a.	..	..	..	..	n.a.
Pyrite concentrate	..	..	14	..	..	427	..	441
Silver gold concentrate	12	..	..	..	..	..	..	12
Silver gold ore	71	..	..	..	..	..	..	71
Silver ore	..	..	1	..	..	..	..	1
Tantalite - columbine concentrate	..	..	..	..	942	..	..	942
Tin concentrate	8,128	22	7,690	..	3,416	29,871	11	49,138
Tin-copper concentrate	..	..	..	..	..	390	..	390
Tungsten concentrates -								
Scheelite concentrate	..	..	..	..	..	8,898	..	8,898
Wolfram concentrate	..	..	870	..	..	1,617	..	2,487
Zinc concentrate	75,753	..	46,122	..	..	16,510	..	138,385
Zinc ore	..	..	..	2,760	..	..	..	2,780
Total metallic minerals	218,949	285	332,370	58,611	771,729	108,780	82,363	1,573,087
COAL								
Black coal -								
Bituminous	451,809	..	399,928	..	..	1,103	..	852,840
Sub-bituminous	..	..	4,832	4,697	12,511	..	..	22,040
Total	451,809	..	404,759	4,697	12,511	1,103	..	874,879
Brown coal (lignite) (g)	..	40,566	..	..	..	..	..	40,566
Brown coal briquettes	..	11,391	..	..	..	..	..	11,391
Total coal	451,809	51,947	404,759	4,697	12,511	1,103	..	926,827
PETROLEUM (h)								
Crude oil	}	395,311	2,639	12,250	36,098	..	..	446,298
Natural gas								
Natural gas condensate (i)								
Ethane (j)								
Liquefied petroleum gases (j) -								
Propane								
Butane								

For footnotes see page 11.

TABLE 2. - MINERALS PRODUCED, 1974-75 - continued

TABLE 2.—MINERALS PRODUCED, 1974-75—CONTINUED										
Mineral		Quantity								
		N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
CONSTRUCTION MATERIALS (k)										
Sand	'000 tonnes	9,115	7,541	4,785	2,419	n.a.	219	166	558	0)24,807
Gravel	'000 tonnes	3,814	4,732	5,256	638	n.a.	1,004	1,156	715	0)17,315
Dimension stone	'000 tonnes	12	12	..	43	94	1	..	1	163
Crushed and broken stone	'000 tonnes	13,125	18,382	9,661	8,735	5,396	1,429	367	242	57,337
Other (decomposed rock, etc.)	'000 tonnes	26,112	6,136	764	597	..	56	..	32	33,697
OTHER NON-METALLIC MINERALS										
Asbestos —										
Chrysotile —										
Fibre	tonnes	36,555	..	..	..	..	..	..	..	36,555
Fines	"	3	..	..	..	..	..	..	..	3
Total chrysotile	"	36,558	..	..	..	..	..	..	..	36,558
Barite	tonnes	591	..	..	7,273	4,149	..	..	..	12,013
Carbon dioxide		..	..	..	n.a.	..	..	..	..	n.a.
Clays —										
Bentonite	tonnes	..	..	177	..	..	..	..	..	177
Bentonitic clay	"	..	..	107	..	1,041	..	..	..	1,148
Brick clay and shale	'000 tonnes	2,873	1,970	842	671	1,348	140	..	..	7,844
Cement clay and shale	tonnes	183,227	..	110,225	91,071	75,484	45,414	..	..	505,421
Damouritic clay	"	..	..	..	1,031	..	..	..	..	1,031
Fireclay n.e.i.	"	81,779	14,280	12,822	28,714	13,160	..	..	..	150,755
Fuller's earth	"	7	..	..	..	..	..	..	..	7
Kaolin (m) (incl. ball clay)	"	56,789	34,212	1,209	12,710	2,575	..	..	..	107,495
Pipe and tile clay	"	98,231	76,495	76,067	..	22,213	29,082	..	..	302,088
Stoneware clay	"	48,878	175,619	1,615	17,040	..	..	..	..	243,152
Diatomite	tonnes	356	4,979	700	..	..	..	..	..	6,035
Dolomite	tonnes	874	..	10,999	393,469	..	6,199	..	..	411,541
Felspar (incl. cornish stone)	tonnes	2,021	..	..	1,788	469	..	..	..	4,278
Gypsum	tonnes	44,615	54,139	..	784,437	124,471	..	..	..	1,007,662
Limestone (incl. shell and coral)	'000 tonnes	3,706	2,140	1,876	1,535	1,272	580	..	..	11,209
Magnetite, crude	tonnes	18,687	..	..	363	17,223	..	..	..	36,273
Peat (o)	tonnes	2,324	..	..	..	670	390	..	..	3,384
Pebbles — for grinding	tonnes	..	..	..	22	..	976	..	..	998
Perlite	tonnes	..	..	3,555	..	..	..	..	..	3,555
Phosphate rock	tonnes	..	..	35,485	1,531	..	..	..	..	37,016
Pyrophyllite	tonnes	14,264	..	..	..	..	..	..	..	14,264
Salt	'000 tonnes	..	114	92	698	(q)4,153	..	..	..	5,057
Silica	tonnes	438,761	142,550	671,730	72,571	30,511	32,178	..	..	1,388,301
Sillimanite	tonnes	..	..	..	703	..	..	..	..	703
Talc (incl. steatite and chlorite)	tonnes	4,254	..	..	15,842	51,976	..	..	..	72,072
Vermiculite	tonnes	..	..	..	..	n.a.	..	..	..	n.a.

For footnotes see page 11.

TABLE 2. — MINERALS PRODUCED, 1974-75 — continued

	Value (\$'000)								
Mineral	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
CONSTRUCTION MATERIALS (k)									
Sand	17,451	11,726	8,918	3,375	n.a.	422	347	865	(1)43,104
Gravel	13,854	3,986	10,965	557	n.a.	1,751	1,832	2,182	(1)35,127
Dimension stone	264	262	8	606	465	87	..	4	1,696
Crushed and broken stone	39,089	44,264	19,237	14,161	14,807	3,558	2,614	449	138,179
Other (decomposed rock, etc.)	13,861	4,957	646	299	..	102	..	69	19,934
Total construction materials	84,520	65,195	39,774	18,998	15,273	5,921	4,793	3,570	238,044
OTHER NON-METALLIC MINERALS									
Asbestos —									
Chrysotile —									
Fibre	7,960	..	..	..	..	..	..	..	7,960
Fines	..	..	..	..	..	..	..	..	..
Total chrysotile	7,960	..	..	..	..	..	..	..	7,960
Barite	2	..	..	204	98	..	..	..	303
Carbon dioxide	..	..	..	45	..	..	..	..	45
Clays —									
Bentonite	..	..	17	..	..	..	..	..	17
Bentonitic clay	..	..	2	..	13	..	..	..	15
Brick clay and shale	4,565	2,129	1,213	806	1,371	157	..	..	10,241
Cement clay and shale	272	..	n.a.	114	n.a.	68	..	..	841
Diamouritic clay	..	..	..	15	..	..	..	..	15
Fibroclay n.e.i.	236	40	n.a.	57	n.a.	..	..	..	410
Fuller's earth	..	..	..	..	..	..	..	..	..
Kaolin (m) (incl. ball clay)	596	1,482	n.a.	191	n.a.	..	..	..	2,305
Pipe and tile clay	208	42	n.a.	..	n.a.	41	..	..	421
Stoneware clay	117	172	9	51	..	..	..	..	349
Diatomite	8	28	9	..	..	..	..	..	45
Dolomite	20	..	153	777	..	41	..	..	991
Felspar (incl. cornish stone)	34	..	..	40	13	..	..	..	87
Gems —									
Opal (n)	2,583	..	602	21,000	7	..	..	..	24,192
Sapphire	2,810	..	10,000	..	..	..	..	..	12,810
Other	12	..	7	..	11	..	..	..	30
Gypsum	394	161	..	2,188	433	..	..	..	3,176
Limestone (incl. shell and coral)	6,152	n.a.	n.a.	2,328	3,576	1,449	..	..	24,221
Magnesite, crude	286	..	..	2	434	..	..	..	722
Peat (o)	62	..	..	..	n.a.	n.a.	..	..	146
Pebbles — for grinding	..	..	..	1	..	26	..	..	27
Perlite	..	..	32	..	..	..	..	..	32
Phosphate rock	..	..	1,184	6	..	..	..	..	1,190
Pyrophyllite	156	..	..	..	..	..	..	..	156
Salt	..	n.a.	n.a.	2,793	(p)17,436	..	..	..	21,951
Silica	2,310	445	2,892	425	88	141	..	..	6,301
Sillimanite	..	..	..	22	..	..	..	..	22
Talc (incl. steatite and chlorite)	36	..	..	n.a.	n.a.	..	..	..	1,348
Vermiculite	..	..	..	..	n.a.	..	..	..	n.a.
Total other non-metallic minerals	28,818	9,958	23,410	31,410	24,833	1,953	..	..	120,381
TOTAL									
Total all minerals and construction materials	784,097	522,696	802,952	125,966	860,443	117,756	87,156	3,570	3,304,637

(a) Includes 14 tonnes of copper slag valued at \$10,398. (b) Includes alluvial gold. (c) Iron concentrate. (d) Includes silver-lead ore, silver-lead alimes and lead slag. (e) Details relating to rutile-zircon concentrates produced in one State and finally separated in another State are included, in separated form, in the data of the State of origin. (f) See footnote (e) on page 7. (g) In addition 2,900,000 tonnes of brown coal valued at \$4,785,000 was used in making briquettes. (h) Source : Department of National Resources and State Mines Departments. (i) Sales — excludes condensate blended with other petroleum products. (j) Excludes refinery production. (k) Incomplete owing to difficulties of coverage; see explanatory notes, page 2, paragraph 9. (l) Incomplete, excludes Western Australia. (m) Includes refined kaolin. (n) Estimated. (o) Comprises peat for fertiliser and peat moss. (p) Includes langbeinite.

TABLE 3. - VALUE OF MINERAL PRODUCTION
(\$ millions)

	1970-71	1971-72	1972-73	1973-74	1974-75	Variation 1974-75 on 1973-74 %
New South Wales	392.2	427.3	454.3	503.9	784.1	+55.6
Victoria	249.4	312.4	350.0	431.0	522.7	+21.3
Queensland	293.8	318.8	399.2	583.5	803.0	+37.6
South Australia	92.5	94.2	116.8	116.6	126.0	+ 7.9
Western Australia	446.5	510.4	536.5	604.3	860.4	+42.4
Tasmania	74.2	82.0	84.9	117.6	117.8	+ 0.1
Northern Territory	32.3	43.6	54.9	102.1	87.2	-14.6
Australian Capital Territory	1.7	1.8	2.1	2.3	3.6	+53.0
Australia	1,582.6	1,790.5	1,998.6	2,461.3	3,304.6	+34.3

TABLE 4. - VALUE OF MINERALS PRODUCED
MINING ESTABLISHMENTS AND OTHER PRODUCERS (a)
AUSTRALIA, 1974-75
(\$ millions)

	Value of minerals produced by		
	Mining establishments	Other producers	Total
Mineral group -			
Metallic minerals	1,570.8	2.3	1,573.1
Coal	926.8	..	926.8
Petroleum	446.3	..	446.3
Construction materials	200.7	(b)37.4	238.0
Other non-metallic minerals	75.3	(c)45.1	120.4
Total	3,223.1	81.5	3,304.6
States and Territories -			
New South Wales	765.0	19.1	784.1
Victoria	510.5	12.2	522.7
Queensland	785.2	17.7	803.0
South Australia	98.4	27.5	126.0
Western Australia	857.9	2.5	860.4
Tasmania	115.4	2.4	117.8
Northern Territory	84.0	3.2	87.2
Australian Capital Territory	3.6	..	3.6

(a) See explanatory notes, page 2, paragraph 10. (b) Principally producers classified to the construction and transport industries, local government authorities and other small producers. (c) Principally brick and cement manufacturing establishments producing clay and limestone and small establishments producing gems.

TABLE 5. - CONTENTS OF METALLIC MINERALS PRODUCED, AUSTRALIA

In this table the contents of the various minerals have been tabulated to show the aggregate quantity of each metal, metallic oxide or element contained in the various metallic minerals produced. The totals compiled in this way are known as "Mine Production" and, as no allowance has been made for losses in smelting and refining, they are, in general, greater than the quantities actually recovered.

Mineral in which contained	1970-71	1971-72	1972-73	1973-74	1974-75
ALUMINA (Al_2O_3) ('000 tonnes)					
Bauxite	n.a.	n.a.	n.a.	n.a.	n.a.
ANTIMONY (tonnes)					
Antimony ore and concentrate	702	383	n.a.	n.a.	n.a.
Lead concentrate	662	711	619	574	675
Lead-zinc middlings	22	26	34	12	10
Total	1,386	1,120	n.a.	n.a.	n.a.
BERYLLIUM OXIDE (BeO) (units of 10 kg)					
Beryllium ore	338	678	1,386	2,123	72
BISMUTH (kg)					
Bismuth concentrate	232,936	325,425	343,349	444,473	690,488
Copper concentrate	5,080	22,353	12,100	580,664	484,060
Lead concentrate	..	..	..	..	64,289
Total	238,016	347,778	355,449	1,025,137	1,238,837
CADMIUM (tonnes)					
Lead concentrate	89	83	53	47	57
Lead-zinc middlings	7	22	29	22	21
Zinc concentrate	1,369	1,520	1,547	1,361	1,523
Total	1,465	1,625	1,629	1,430	1,601
COBALT (tonnes)					
Nickel concentrate	336	167	203	109	79
Nickel ore	..	..	..	..	860
Zinc concentrate	110	116	107	92	116
Total	446	283	310	201	1,055
COPPER (tonnes)					
Bismuth concentrate	110	114	157	400	575
Copper concentrate	161,575	159,239	186,763	233,371	220,257
Copper ore (a)	1,816	1,261	946	1,407	996
Copper ore - for fertiliser	26	7	24	6	8
Copper oxide	..	517	752	663	1,111
Copper precipitate	179	179	130	129	32
Lead concentrate	3,258	3,603	3,176	2,988	3,679
Lead-copper concentrate	1,235	2,133	1,828	2,350	2,652
Lead ore	..	..	4	..	..
Lead-zinc middlings	92	133	175	134	128
Nickel concentrate	2,938	2,590	2,659	3,407	4,449
Tin concentrate	..	..	..	6	..
Tin-copper concentrate	836	977	878	652	522
Zinc concentrate	900	1,167	1,226	1,156	1,181
Total	172,965	171,920	198,718	246,669	235,590

(a) Includes copper slag.

TABLE 5. - CONTENTS OF METALLIC MINERALS PRODUCED, AUSTRALIA - continued

Mineral in which contained	1970-71	1971-72	1972-73	1973-74	1974-75
GOLD ('000 grams)					
Antimony concentrate	19	2	..	..	..
Bismuth concentrate	1,004	2,239	2,026	956	974
Copper concentrate	2,800	2,985	2,463	3,402	2,522
Copper ore	1	..	1	..	..
Copper precipitate	3	..	..	..	..
Gold bullion (b)	14,053	16,179	13,938	10,412	10,022
Gold ore	3	..	..	1	2
Lead concentrate	324	383	312	276	383
Lead-copper concentrate	750	1,260	1,038	972	913
Lead-zinc middlings	21	17	23	22	28
Nickel concentrate	..	..	..	32	35
Silver gold concentrate	..	..	..	..	10
Silver gold ore	..	..	..	..	3
Zinc concentrate	125	188	201	198	170
Total	19,103	23,253	20,002	16,271	15,061
IRON ('000 tonnes)					
Iron ore	36,107	39,255	47,204	57,801	60,860
LEAD (tonnes)					
Copper concentrate	777	341	633	754	599
Lead concentrate	392,834	395,214	356,695	345,290	390,848
Lead-copper concentrate	3,018	5,127	5,034	5,138	4,207
Lead ore	2,020	1,774	2,553	1,847	2,613
Lead-zinc middlings	6,560	4,910	5,733	2,136	2,371
Zinc concentrate	11,223	13,431	14,360	15,266	15,862
Total	416,432	420,797	385,008	370,431	416,500
MANGANESE (tonnes)					
Manganese ore - metallurgical grade	367,475	554,616	624,042	765,146	666,780
Zinc concentrate	6,155	7,711	8,443	5,426	6,146
Total	373,630	562,327	632,485	770,572	672,926
MANGANESE DIOXIDE (MnO ₂) (tonnes)					
Manganese ore - other grades	82	28	4	..	..
MERCURY (kg)					
Zinc concentrate	662	483	512	313	86
MOLYBDENUM DISULPHIDE (MoS ₂) (kg)					
Molybdenite concentrate	51,818	15,676	..	7,360	..
MONAZITE (tonnes)					
Monazite concentrate	3,842	4,735	4,148	3,715	3,108
NICKEL (tonnes)					
Nickel concentrate	34,917	35,559	36,104	42,247	49,106
Nickel ore	..	..	n.a.	..	n.a.
PALLADIUM ('000 grams)					
Nickel concentrate	2	..	..	71	147
PLATINUM ('000 grams)					
Copper concentrate	1	..	..	..	..
Nickel concentrate	28	..	..	17	62
SELENIUM (tonnes)					
Bismuth concentrate	..	36	31	5	..
SILICA DIOXIDE (tonnes)					
Bauxite	..	..	..	..	n.a.

(b) Includes alluvial gold.

TABLE 5. - CONTENTS OF METALLIC MINERALS PRODUCED, AUSTRALIA - continued

Mineral in which contained	1970-71	1971-72	1972-73	1973-74	1974-75
SILVER (kg)					
Bismuth concentrate	175	436	520	274	386
Copper concentrate	35,343	32,342	38,343	40,900	39,000
Copper ore	102	84	..	..	18
Copper precipitate	..	..	..	..	..
Gold bullion	4,035	3,769	3,264	2,519	2,014
Lead concentrate	588,128	540,465	490,615	497,096	560,391
Lead-copper concentrate	28,824	49,602	49,357	53,034	45,211
Lead ore	2,265	2,044	3,480	2,153	2,939
Lead-zinc middlings	24,660	16,746	23,880	15,643	16,842
Nickel concentrate	..	..	..	23	140
Silver ore	72	..	..	..	19
Silver-gold concentrate	..	..	..	..	112
Silver gold ore	..	..	..	..	596
Zinc concentrate	47,574	54,677	61,023	62,717	41,424
Total	731,178	700,165	670,482	674,359	709,092
SULPHUR (tonnes)					
Lead concentrate	50,356	56,831	50,826	44,236	51,153
Lead-copper concentrate	2,845	5,005	4,427	5,673	6,055
Lead-zinc middlings	1,749	4,309	5,515	3,223	3,036
Pyrite concentrate	110,375	120,586	93,839	114,340	104,126
Zinc concentrate	239,922	273,583	324,960	241,868	278,915
Total	405,247	460,313	479,567	409,340	443,285
TANTALITE-COLUMBITE ($Ta_2O_5 + Nb_2O_5$) (kg)					
Tantalite-columbite concentrate	63,799	76,217	84,744	91,108	53,734
Tin concentrate	..	..	..	n.a.	..
Total	63,799	76,217	84,744	n.a.	53,734
TIN (tonnes)					
Tantalite-columbite concentrate	(c)	..	..	..	..
Tin concentrate	8,749	10,913	11,625	10,518	10,095
Tin-copper concentrate	174	157	129	81	73
Total	8,923	11,070	11,754	10,599	10,168
TITANIUM DIOXIDE (TiO_2) (tonnes)					
Ilmenite concentrate	482,382	398,243	396,514	373,363	503,582
Leucocene concentrate	11,304	11,112	9,336	10,128	15,642
Rutile concentrate	359,512	343,378	305,962	295,514	320,496
Total	853,198	752,733	711,812	679,005	839,720
TUNGSTIC OXIDE (WO_3) (units of 10 kg)					
Scheelite concentrate	90,374	135,347	131,973	117,100	120,700
Wolfram concentrate	75,687	61,025	55,528	25,676	36,862
Wolfram ore	..	..	100	..	..
Total	166,061	196,372	187,601	142,776	157,562
YTTTRIUM OXIDE (Y_2O_3) (kg)					
Xenotime concentrate	9,647	3,658	4,318	4,378	4,880
ZINC (tonnes)					
Copper concentrate	1,850	994	2,058	2,324	1,800
Lead concentrate	32,047	33,922	31,786	29,758	31,127
Lead-copper concentrate	1,278	2,360	2,333	2,657	2,409
Lead ore	27	18	63	..	..
Lead-zinc middlings	5,109	5,373	8,038	4,011	3,359
Zinc concentrate	403,757	454,874	462,717	399,526	457,700
Zinc ore	76	..	..	3,010	11,779
Total	444,144	497,541	506,995	441,286	508,174
ZIRCONIUM DIOXIDE (ZrO_2) (tonnes)					
Rutile concentrate	..	..	..	..	38
Zircon concentrate	277,877	258,767	247,545	290,519	322,191
Total	277,877	258,767	247,545	290,519	322,229

(c) Tin content of tantalite-columbite concentrate is included with tin concentrate; separate details are not available for publication.

TABLE 6. - CONTENTS OF METALLIC MINERALS PRODUCED, 1974-75

In this table the contents of the various minerals have been tabulated to show the aggregate quantity of each metal, metallic oxide or element contained in the various metallic minerals produced. The totals compiled in this way are known as "Mine Production" and, as no allowance has been made for losses in smelting and refining, they are, in general, greater than the quantities actually recovered.

Mineral in which contained	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	Aust.
ALUMINA (Al_2O_3) ('000 tonnes)								
Bauxite	4	..	n.a.	..	n.a.	..	n.a.	n.a.
ANTIMONY (tonnes)								
Antimony concentrate	990	..	..	..	..	..	..	990
Antimony ore	7	n.a.	..	..	..	..	..	n.a.
Lead concentrate	675	..	..	..	..	..	..	675
Lead-zinc middlings	10	..	..	..	..	..	..	10
Total	1,682	n.a.	..	..	..	..	..	n.a.
BERYLLIUM OXIDE (BeO) (units of 10 kg)								
Beryllium ore	..	..	..	..	72	..	..	72
BISMUTH (kg)								
Bismuth concentrate	2	..	..	..	..	..	690,486	690,488
Copper concentrate	..	..	..	..	..	..	484,060	484,060
Lead concentrate	..	..	..	..	..	..	64,289	64,289
Total	2	..	..	..	..	..	1,238,835	1,238,837
CADMIUM (tonnes)								
Lead concentrate	52	..	5	..	..	..	..	57
Lead-zinc middlings	21	..	..	..	..	..	..	21
Zinc concentrate	946	..	442	..	..	135	..	1,523
Total	1,019	..	447	..	..	135	..	1,601
COBALT (tonnes)								
Nickel concentrate	..	..	..	..	79	..	..	79
Nickel ore	..	..	860	..	..	..	..	860
Zinc concentrate	116	..	..	..	..	..	..	116
Total	116	..	860	..	79	..	..	1,055
COPPER (tonnes)								
Bismuth concentrate	..	..	..	..	..	..	575	575
Copper concentrate	9,730	..	166,364	8,931	..	25,824	9,408	220,257
Copper ore	(a)27	..	969	..	..	..	..	(a)996
Copper ore - for fertiliser	..	..	..	8	..	..	..	8
Copper oxide	16	..	..	1,095	..	..	..	1,111
Copper precipitate	10	..	19	3	..	..	..	32
Lead concentrate	2,794	..	801	..	..	31	53	3,679
Lead-copper concentrate	..	..	..	..	..	2,652	..	2,652
Lead-zinc middlings	128	..	..	..	..	..	..	128
Nickel concentrate	..	..	..	..	4,449	..	..	4,449
Tin concentrate	..	..	..	..	..	..	..	..
Tin-copper concentrate	..	..	..	..	..	522	..	522
Zinc concentrate	830	..	..	..	..	351	..	1,181
Total	13,535	..	168,153	10,037	4,449	29,380	10,036	235,590

(a) Includes copper slag.

TABLE 6. - CONTENTS OF METALLIC MINERALS PRODUCED, 1974-75 - *continued*

<i>Mineral in which contained</i>	<i>N.S.W.</i>	<i>Vic.</i>	<i>Qld</i>	<i>S.A.</i>	<i>W.A.</i>	<i>Tas.</i>	<i>N.T.</i>	<i>Aust</i>
GOLD ('000 grams)								
Bismuth concentrate	..	..	..	..	..	..	974	974
Copper concentrate	..	..	1,106	50	..	508	858	2,522
Gold bullion (b)	11	218	274	..	6,257	2	3,260	10,022
Gold ore	..	..	..	2	..	..	..	2
Lead concentrate	230	..	..	..	..	30	123	383
Lead-copper concentrate	..	..	..	..	..	913	..	913
Lead-zinc middlings	28	..	..	..	..	..	..	28
Nickel concentrate	..	..	..	..	35	..	..	35
Silver gold concentrate	10	..	..	..	..	..	..	10
Silver gold ore	3	..	..	..	..	..	..	3
Zinc concentrate	54	..	..	..	..	116	..	170
Total	335	218	1,380	52	6,292	1,569	5,216	15,061
IRON ('000 tonnes)								
Iron ore	..	292	..	1,853	57,289	(c)1,426	..	60,860
LEAD (tonnes)								
Copper concentrate	599	..	..	..	..	..	..	599
Lead concentrate	247,617	..	134,354	..	10	8,648	219	390,848
Lead-copper concentrate	..	..	..	..	..	4,207	..	4,207
Lead ore	..	..	2,607	6	..	..	..	2,613
Lead-zinc middlings	2,371	..	..	..	..	..	..	2,371
Zinc concentrate	6,000	..	4,655	..	..	5,207	..	15,862
Total	256,587	..	141,616	6	10	18,062	219	416,500
MANGANESE (tonnes)								
Manganese ore - metallurgical grade	..	..	..	..	..	..	666,780	666,780
Zinc concentrate	5,884	..	..	..	..	262	..	6,146
Total	5,884	..	..	..	..	262	666,780	672,926
MERCURY (kg)								
Zinc concentrate	..	..	..	..	..	86	..	86
MOLYBDENUM DISULPHIDE (MoS ₂) (kg)								
Molybdenite concentrate	..	..	..	..	..	..	..	..
MONAZITE (tonnes)								
Monazite concentrate	742	..	15	..	2,351	..	..	3,108
NICKEL (tonnes)								
Nickel concentrate	..	..	..	..	49,106	..	..	49,106
Nickel ore	..	..	n.a.	..	..	..	..	n.a.
PALLADIUM ('000 grams)								
Nickel concentrate	..	..	..	..	147	..	..	147
PLATINUM ('000 grams)								
Nickel concentrate	..	..	..	..	62	..	..	62
SELENIUM (tonnes)								
Bismuth concentrate	..	..	..	..	..	..	..	..
SILICA DIOXIDE (tonnes)								
Bauxite	..	..	..	..	..	..	n.a.	n.a.

(b) Includes alluvial gold. (c) Content of iron concentrate.

TABLE 6. — CONTENTS OF METALLIC MINERALS PRODUCED, 1974-75 — *continued*

<i>Mineral in which contained</i>	<i>N.S.W.</i>	<i>Vic.</i>	<i>Qld</i>	<i>S.A.</i>	<i>W.A.</i>	<i>Tas.</i>	<i>N.T.</i>	<i>Aust.</i>
SILVER (kg)								
Bismuth concentrate	..	..	..	..	..	..	386	386
Copper concentrate	7,173	..	23,636	1,254	..	5,373	1,564	39,000
Copper ore	..	..	18	..	..	..	..	18
Gold bullion	1	..	539	..	1,474	..	..	2,014
Lead concentrate	244,472	..	306,343	..	..	9,383	193	560,391
Lead-copper concentrate	..	..	..	..	..	45,211	..	45,211
Lead ore	..	..	2,939	..	..	..	..	2,939
Lead-zinc middlings	16,842	..	..	..	..	..	..	16,842
Nickel concentrate	..	..	..	..	140	..	..	140
Silver ore	..	..	19	..	..	..	..	19
Silver gold concentrate	112	..	..	..	..	..	..	112
Silver gold ore	596	..	..	..	..	..	..	596
Zinc concentrate	..	..	28,104	..	..	13,320	..	41,424
Total	269,196	..	361,598	1,254	1,614	73,287	2,143	709,092
SULPHUR (tonnes)								
Lead concentrate	49,015	..	..	..	..	2,138	..	51,153
Lead-copper concentrate	..	..	..	..	..	6,055	..	6,055
Lead-zinc middlings	3,036	..	..	..	..	..	..	3,036
Pyrite concentrate	..	..	278	..	..	103,848	..	104,126
Zinc concentrate	173,022	..	70,702	..	..	35,191	..	278,915
Total	225,073	..	70,980	..	..	147,232	..	443,285
TANTALITE — COLUMBITE (Ta₂O₅ + Nb₂O₅) (kg)								
Tantalite-columbite concentrate	..	..	..	..	53,734	..	..	53,734
TIN (tonnes)								
Tin concentrate	1,854	4	1,681	..	690	5,863	3	10,095
Tin-copper concentrate	..	..	..	..	..	73	..	73
Total	1,854	4	1,681	..	690	5,936	3	10,168
TITANIUM DIOXIDE (TiO₂) (tonnes)								
Ilmenite concentrate	7,923	..	..	49	495,610	..	..	503,582
Leucoxene concentrate	..	..	..	..	15,642	..	..	15,642
Rutile concentrate	175,775	..	115,981	180	23,017	4,643	..	320,496
Total	183,698	..	115,981	229	535,169	4,643	..	839,720
TUNGSTIC OXIDE (WO₃) (units of 10 kg)								
Scheelite concentrate	..	..	..	..	..	120,700	..	120,700
Wolfram concentrate	..	..	13,862	..	..	23,000	..	36,862
Total	..	..	13,862	..	..	143,700	..	157,562
YTTRIUM OXIDE (Y₂O₃) (kg)								
Xenotime concentrate	..	..	..	..	4,880	..	..	4,880
ZINC (tonnes)								
Copper concentrate	1,800	..	..	..	..	..	..	1,800
Lead concentrate	11,582	..	18,244	..	..	1,301	..	31,127
Lead-copper concentrate	..	..	..	..	..	2,409	..	2,409
Lead zinc middlings	3,359	..	..	..	..	..	..	3,359
Zinc concentrate	285,097	..	114,856	..	..	57,747	..	457,700
Zinc ore	..	..	..	11,779	..	..	..	11,779
Total	301,838	..	133,100	11,779	..	61,457	..	508,174
ZIRCONIUM DIOXIDE (ZrO₂) (tonnes)								
Rutile concentrate	..	..	..	..	..	38	..	38
Zircon concentrate	187,957	..	71,644	83	57,535	4,972	..	322,191
Total	187,957	..	71,644	83	57,535	5,010	..	322,229

TABLE 7. - QUANTITY OF SELECTED MINERALS, AUSTRALIAN AND ESTIMATED WORLD PRODUCTION, 1974

(Source : Bureau of Mineral Resources : Australian Mineral Industry 1974 Review)

Selected Minerals (a)		Estimated World Production	Australian Production	Australian Production as % of Estimated World Production	World's Leading Producer	
					Country	Production
Rutile concentrate	'000 tonnes	(b)336	319	94.9	Australia	319
Zircon concentrate	'000 tonnes	(b)520	368	70.7	Australia	368
Bauxite	Mega tonnes	77	20	26.0	Australia	20
Ilmenite concentrate	'000 tonnes	(b)(c)3,500	(d)832	20-25	Canada	(e)845
Bismuth in ores and concentrates	tonnes	5,380	1,170	21.7	Australia	1,170
Iron ore	Mega tonnes	851	97	11.4	U.S.S.R.	223
Lead in ores and concentrates (f)	'000 tonnes	3,625	375	10.3	U.S.A.	616
Silver in ores and concentrates	tonnes	9,299	670	7.2	Canada	1,511
Zinc in ores and concentrates (g)	'000 tonnes	6,027	427	7.1	Canada	1,221
Manganese ore and concentrates	'000 tonnes	22,680	1,522	6.7	U.S.S.R.	8,000
Nickel in ores and concentrates	'000 tonnes	730	46	6.3	Canada	262
Tin in ores and concentrates	'000 tonnes	182	11	5.8	Malaysia	68
Tungsten concentrates (h)	'000 tonnes	39	2	5.6	U.S.A.	(i)7
Brown coal	Mega tonnes	(j)822	27	3.3	East Germany	243
Copper in ores and concentrates	'000 tonnes	7,903	251	3.2	U.S.A.	1,449
Salt	Mega tonnes	156	(k)5	3.2	U.S.A.	42
Black coal	Mega tonnes	2,290	(l)70	3.1	U.S.A.	537

(a) The minerals included in this table are those major minerals (excluding gemstones) for which, in 1974, Australian production comprised more than 2% of estimated world production. (b) Excludes communist countries. (c) Includes titania slag produced in Canada. (d) Includes leucoxene. (e) Titania slag. (f) Based on the lead content by analysis of lead ores and concentrates plus the lead content of mixed ores and concentrates known to be intended for lead recovery. (g) Zinc content of zinc ores and concentrates known to be intended for treatment for zinc recovery. (h) Calculated to 65% WO_3 content. (i) Despatches. (j) Excludes Peoples Republic of China. (k) Excludes Victoria. (l) Raw coal.

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