

MINERALS AND MINERAL PRODUCTS, AUSTRALIA JULY 1973

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EXPLANATORY NOTES

1. **Introduction.** This bulletin contains statistics relating to the principal minerals and mineral products produced in Australia, overseas trade in selected minerals and mineral products, relevant prices and price indexes, and data on Commonwealth Government payments to sectors of the mineral and manufacturing industries.

More detailed statistics on various aspects of the mineral industry are contained in Part II - Quarterly Statistics of *The Australian Mineral Industry Quarterly Review*, which is published in conjunction with the Bureau of Mineral Resources.

2. **Sources of data.** Statistics contained in this bulletin are derived from a variety of sources. The more important of these sources, and some additional comments, are set out below.

Table 1. Mine production

Statistics in these tables are derived mainly from collections carried out by the Bureau of Mineral Resources, the Department of Minerals and Energy and the various State Mines Departments. Preliminary annual statistics are derived from the same sources, but final annual statistics are derived from the annual Mining Census which is conducted by this Bureau in collaboration with the State Mines Departments.

Table 2. Production of principal manufactured products of mineral origin

Statistics of non-ferrous metal production and refined silver are collected by the Bureau of Mineral Resources. Data on refined gold production are provided by the Reserve Bank. Other data in this table, relating to fuels, building materials and chemicals, are derived from returns collected by the Deputy Commonwealth Statisticians in the States, except the data relating to petroleum products which are collected by the Department of Minerals and Energy.

Tables 3, 4, 5 and 6. Overseas trade

These statistics are extracted from this Bureau's compilations of overseas trade statistics, which are derived from documents obtained under the Customs Act by the Department of Customs and Excise.

Tables 7 and 8. Prices

Price data are mainly derived from information collected and compiled by the Bureau of Mineral Resources. For further information, see Appendix C.

Tables 9 and 10. Metallic materials and export price indexes

Data in these tables are derived from this Bureau's compilation of price indexes. For further information, see Appendixes D and E.

Table 11. Commonwealth Government payments

Data in this table are provided by the various Departments responsible for the administration of the specified Acts. Further details of Commonwealth Government assistance to the mineral industry are given on pages 904-9 of *Official Year Book* No. 58, 1972.

Table 12. Changes in stocks of gold

Statistics of refinery production, imports and exports of gold bullion in this table are identical with corresponding figures in preceding tables, and have the same sources. Net industrial consumption data are supplied by the Reserve Bank.

3. **Revision of data.** Statistics for current months are preliminary and subject to revision. Revision of data, based on figures derived from established quarterly compilation of mineral statistics, the annual Mining Census and various special purpose collections will be incorporated in this bulletin as soon as possible after the revised information becomes available.

4. **Commodity groupings.** For the convenience of users of this bulletin, commodities in Tables 1 to 6 are grouped according to conventions generally accepted in the mineral industry.

5. **Seasonal adjustment.** This bulletin includes seasonally adjusted production statistics for black coal, ingot steel, Portland cement and sulphuric acid. In all adjustments account has been taken of normal seasonal factors and 'trading day' effects (arising from the varying numbers of Sundays, Mondays, Tuesdays, etc. in the month). In the adjustment of black coal production, account has also been taken of the influence of Easter, Australia Day and varying patterns of annual leave which may, in successive years, affect figures differently for different months. Details of the methods used in seasonally adjusting these and other series are given in *Seasonally Adjusted Indicators*, 1972 (Reference No. 1.10).

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

7. **Metric units.** This issue contains all quantity data in metric units for the first time; all subsequent issues of this publication will show data in metric units. Details of units and conversion factors used are shown below.

	Imperial Unit	Metric Unit	Conversion factors	
			Imperial to Metric : Multiply Imperial by	Metric to Imperial : Multiply metric by
Area				
	Square yard (sq. yd)	square metre (sq. m)	0.83612736	1.19599
Mass				
	troy (fine) ounce (f.oz)	gram (g)	31.1035	0.0321507
	long ton unit (ltu)	metric ton unit (mtu) (10 Kg)	1.01605	0.984207
	short ton (sh.ton)	tonne (t)	0.907185	1.10231
	ton (ton)	tonne (t)	1.01605	0.984207
Volume				
	cubic foot (cu.ft)	cubic metre (cu m)	0.0283168	35.3147
Volume (fluids)				
	gallon (gal)	litre (l)	4.54609	0.219969
	barrel (bl)	litre (l)	158.987	0.00628981
	barrel (bl)	cubic metre (cu m) (1,000 litres)	0.158987	6.28981

NOTE. In tables 7 and 8 prices data are, in general, shown exactly as they are quoted in the relevant markets. For this reason some prices data in these tables are quoted in terms of price per imperial unit of quantity.

8. **Symbols used.** For convenience the following symbols are used in this bulletin :

- r figure or series revised since previous issue.
 - .. nil or less than half the final digit shown, or not applicable.
 - n nominal
 - p preliminary
 - n.a. not available
 - break in continuity of series (where drawn across a column between two consecutive figures).
- A blank space in a column of figures means that the figure concerned is not yet available.

TABLE 1. - MINE PRODUCTION OF PRINCIPAL MINERALS, AUSTRALIA

Period	Metallic minerals									
	Non-ferrous					Ferrous and alloy (a)				
	Copper (b)	Lead (b)	Zinc (b)	Tin (b)	Nickel concentrate (a)	Bauxite (a)	Iron ore and concentrate	Manganese ore	Tungsten concentrates	Precious (b) Gold (c)
	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	'000 tonnes	'000 tonnes	tonnes	kilograms
1970-71	172,966	416,432	444,145	8,923	304,046	11,043	57,110	786	2,363	19,103
1971-72	171,920	420,796	497,540	11,070	299,144	13,697	62,103	1,164	2,641	23,253
1972-73	192,070	386,467	486,665	12,340	252,936	15,326	71,924	1,261	2,449	19,966
1971-72 - June	17,632	39,221	47,958	(d)	21,284	(d)	(d)	(d)	(d)	1,991
1972-73 - July	15,445	33,367	40,426	1,186	19,002	3,734	15,067	205	663	2,202 2,320 1,887
August	15,139	37,185	51,187	1,211	24,240					
September	14,501	32,779	41,891	1,237	22,636					
October	15,127	33,747	44,599	1,112	22,703	3,758	19,275	375	600	1,683 1,612 1,536
November	15,264	36,197	47,514	1,026	22,179					
December	16,010	23,394	32,450	984	22,683					
January	16,736	24,209	29,346	1,118	25,496	3,530	17,629	352	684	2,003 1,532 1,231
February	14,359	30,459	34,566	996	17,135					
March	15,856	32,553	36,802	734	19,787					
April	17,225	31,062	39,611	791	18,467	4,304	19,953	329	502	1,211 1,333 1,415
May	16,687	38,765	48,603	920	19,889					
June	19,721	32,750	39,670	1,025	18,719					
1973-74 - July	21,314	41,581	48,088	973	24,251					

Period	Metallic minerals - continued				Fuel minerals					
	Precious (b) - continued		Mineral sands concentrates (a)		Black coal			Petroleum (e)		
	Silver	Ilmenite (f)	Rutile	Zircon	Under-ground	Total	Seasonally adjusted (g)	Brown coal	Crude oil	Natural gas
	kilograms	tonnes	tonnes	tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 cu m	mil cu m
1970-71	723,747	886,758	374,768	417,974	37,137	49,720	..	23,180	14,937	1,962
1971-72	700,164	705,256	355,674	390,514	36,487	53,548	..	23,630	19,038	2,628
1972-73	671,482	714,005	306,563	359,921	36,942	59,712	..	24,104	20,568	3,713
1971-72 - June	66,376	60,062	30,932	34,311	3,681	5,615	4,942	2,212	901	304
1972-73 - July	57,461	61,118	24,534	28,976	3,583	5,301	4,835	2,288	545	319
August	60,874	63,459	24,339	30,874	3,278	4,991	5,017	2,120	1,796	326
September	55,317	58,458	20,889	30,245	2,885	5,014	4,856	2,102	1,834	300
October	58,663	62,821	23,865	29,609	3,616	5,908	5,279	2,117	1,899	306
November	60,151	62,999	27,026	29,130	3,523	5,954	5,120	1,602	1,853	281
December	48,091	48,136	25,866	27,023	2,416	3,854	5,161	1,930	1,927	276
January	46,809	48,232	21,917	29,017	1,939	3,195	4,702	1,746	1,876	284
February	48,967	50,209	26,699	31,291	3,117	4,714	4,723	1,775	1,631	267
March	52,716	68,152	29,221	34,117	3,335	5,363	4,854	1,838	1,486	322
April	51,676	59,719	26,019	30,031	2,415	4,094	5,362	2,003	1,851	307
May	68,745	68,132	29,036	29,990	3,454	5,993	5,228	2,395	1,951	354
June	62,012	62,570	27,152	29,618	3,379	5,331	4,917	2,188	1,918	372
1973-74 - July	72,949	65,450	19,329	22,631	3,716	6,191	5,396	2,474	2,015	414

(a) Quantities shown are gross output. (b) Quantities shown are metallic contents of mine products based on chemical assay. (c) Western Australian gold production figures (in respect of major producers) normally relate to a four-week period ending in the calendar month indicated. (d) Available on a quarterly basis only. (e) Source : Department of Minerals and Energy. (f) Includes ilmenite for beneficiating. (g) See explanatory notes, paragraph 5, page 3.

TABLE 2. - PRODUCTION OF PRINCIPAL MANUFACTURED PRODUCTS OF MINERAL ORIGIN, AUSTRALIA (a)

Period	Metals									Ferrous	
	Non-ferrous										
	Alumina	Refined aluminium	Blister copper (b)	Refined copper	Lead bullion (b)(c)	Refined lead	Refined zinc	Refined tin	Iron ore pellets (d)	Pig iron (e)	
	'000 tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	'000 tonnes	'000 tonnes	
1970-71	2,405	218,244	130,199	115,321	179,424	154,937	253,761	5,942	6,719	(06,240)	
1971-72	2,815	212,462	144,456	130,825	140,702	190,636	274,076	6,391	6,014	(06,072)	
1972-73	3,219	207,528	149,082	138,811	138,111	173,559	299,243	7,301	8,734	(07,182)	
1971-72 - June	240	17,010	12,428	11,540	11,861	16,604	22,237	719	474	497	
1972-73 - July	239	17,577	13,819	11,622	11,099	14,847	26,647	329	578	542	
August	236	17,645	13,760	13,002	11,165	15,497	24,863	451	560	553	
September	219	17,326	12,911	9,377	10,809	12,298	25,906	872	523	576	
October	236	17,866	12,076	12,747	11,272	13,948	26,658	670	575	626	
November	251	17,067	10,521	11,883	10,804	13,955	25,104	672	709	629	
December	243	17,194	11,029	11,729	11,318	15,520	26,273	721	769	646	
January	r284	17,114	11,527	10,880	11,529	14,033	24,194	569	819	611	
February	r259	15,162	9,240	9,330	10,618	13,796	21,425	571	689	542	
March	r289	16,917	11,550	10,988	12,279	15,134	25,991	812	897	646	
April	r302	17,303	13,983	9,623	12,003	15,310	23,361	380	906	653	
May	r335	18,330	13,290	13,539	13,246	14,979	24,377	563	870	662	
June	r327	18,027	15,376	14,091	11,969	14,242	24,444	691	839	533	
1973-74 - July			14,966	12,989	10,330	15,916	26,112	468	891	662	

Metals - continued										
Period	Precious									
	Refined gold									
	Ferrous - continued				Australian origin					
	Steel ingots (e)		Blooms and slabs	Tinplate	Newly won		From scrap	Overseas origin		
Original	Seasonally adjusted (g)	Quantity			Value (h)	Newly won		From scrap	Refined silver	
	'000 tonnes	'000 tonnes	'000 tonnes	tonnes	kilograms	\$'000	kilograms	kilograms	kilograms	kilograms
1970-71	(f)6,800	..	(f)5,765	(f)309,004	14,426	15,706	637	3,498	43	253,852
1971-72	(f)6,585	..	(f)5,551	(f)317,251	16,394	22,171	662	3,537	53	270,979
1972-73	(f)7,235	..	(f)6,164	(f)242,679	14,689	28,148	554	3,254	130	246,569
1971-72 - June	491	494	440	16,267	1,244	3,298	105	382	16	23,074
1972-73 - July	555	545	513	15,269	1,661	2,669	63	297	..	29,607
August	626	601	529	17,159	1,439	2,616	64	319	11	19,626
September	605	601	523	13,694	2,055	2,915	39	324	..	18,580
October	645	617	521	18,431	1,222	2,790	41	265	10	20,150
November	655	640	555	20,681	1,128	1,916	57	203	6	17,103
December	612	598	488	21,684	1,146	1,662	38	327	..	22,185
January	600	617	504	23,180	1,075	1,951	43	248	..	24,714
February	550	626	494	20,468	880	1,492	45	216	103	15,607
March	636	621	547	25,323	1,373	2,633	42	263	..	20,709
April	618	652	523	24,131	931	2,364	32	186	..	17,940
May	643	626	526	26,391	888	2,103	40	288	..	18,917
June	486	494	427	20,733	891	3,037	50	318	..	21,431
1973-74 - July	689	672	591	28,065	1,025	2,496	50	202	15	22,336

(a) Except for pig iron, steel ingots and refined gold from scrap, excludes secondary metal. (b) Metallic content. (c) Lead bullion for export. (d) Gross wet weight. (e) Includes recovery from scrap. (f) Year ended May. (g) See explanatory notes, paragraph 5, page 3. (h) Based on the price fixed by the Reserve Bank. Includes allowance for premiums on sales of gold overseas and for industrial purposes in Australia. Excludes subsidy.

TABLE 2. - PRODUCTION OF PRINCIPAL MANUFACTURED PRODUCTS OF MINERAL ORIGIN, AUSTRALIA - continued

Period	Fuels					
	Petroleum products (a)				Coal products	
	Motor spirit	Automotive distillate	Furnace fuel	Industrial diesel fuel	Metallurgical coke	Brown coal briquettes
	mil litres	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes
1970-71	10,138	3,177	5,791	1,120	4,542	1,398
1971-72	10,609	3,426	5,015	1,112	4,189	1,308
1972-73	11,157	3,707	5,042	1,055	4,925	1,222
1971-72 - June	751	218	351	661	379	145
1972-73 - July	459	128	221	60.4	412	128
August	858	296	431	86.7	431	128
September	931	309	431	111.4	417	106
October	1,052	333	487	95.4	430	101
November	992	327	449	106.4	411	89
December	1,141	357	445	111.1	435	68
January	926	341	495	60.0	434	88
February	907	283	367	82.6	376	95
March	885	338	384	66.3	380	94
April	983	348	421	82.1	407	103
May	1,067	339	478	99.6	423	119
June	955	306	434	93.3	369	103
1973-74 - July	1,019	306	465	135.7	418	130
Period	Building materials and chemicals					
	Building materials			Chemicals		
	Portland cement		Asbestos cement sheets non-acoustic	Sulphuric acid		Superphosphate (c)
	Original	Seasonally adjusted (b)		Original	Seasonally adjusted (b)	
	'000 tonnes	'000 tonnes	'000 sq m	'000 tonnes	'000 tonnes	'000 tonnes
1970-71	4,685	..	33,646	1,612	..	3,115
1971-72	4,804	..	37,085	1,750	..	3,729
1972-73	5,037	..	39,802	2,265	..	4,916
1971-72 - June	429	420	2,921	178	216	370
1972-73 - July	433	406	3,342	125	179	208
August	442	414	3,435	148	165	331
September	428	415	3,220	163	142	347
October	443	408	4,247	195	179	362
November	461	420	3,872	173	175	382
December	377	422	3,120	202	192	424
January	313	414	1,406	214	199	434
February	375	416	3,388	199	195	461
March	460	435	3,800	196	184	474
April	400	425	2,714	212	198	503
May	469	439	3,639	220	213	529
June	436	427	3,618	218	257	463
1973-74 - July	478	445	4,434	160	232	332

(a) Produced by Australian refineries from imported and indigenous petroleum. Source : Department of Minerals and Energy. (b) See explanatory notes, paragraph 5, page 3. (c) Includes double and triple superphosphate and ammonium phosphate, expressed in terms of single superphosphate, i.e. 22% P₂O₅ equivalent.

TABLE 3. - EXPORTS OF SELECTED MINERALS AND MINERAL PRODUCTS, AUSTRALIA (a)

Commodity (b)	Quantity				Value (\$'000)				
	1970-71	1971-72	1972-73	July 1973	1970-71	1971-72	1972-73	July 1973	
METALLIC MINERALS AND METALS (c)									
Non-ferrous -									
Copper -									
Concentrate	tonnes	140,218	141,395	164,451	12,688	32,031	27,298	32,267	3,945
Blister	"	6,972	5,868	7,728	..	8,992	6,643	9,896	..
Refined	"	36,014	56,519	49,967	2,426	35,521	51,395	44,729	3,055
Matte, slags, etc.	"	8,371	5,210	9,829	1	3,332	1,571	2,640	..
Lead -									
Concentrate	tonnes	83,096	93,537	74,145	4,729	16,290	15,961	12,441	445
Bullion	"	179,811	137,865	142,270	12,454	56,455	38,279	44,940	4,969
Refined	"	123,155	130,345	149,691	4,553	29,023	28,230	36,400	1,322
Slags and residues	"	3,035	2,342	6,628	17	586	423	1,064	27
Zinc -									
Concentrate	tonnes	387,334	364,147	289,836	70,666	25,739	26,184	21,508	6,937
Refined	"	136,664	190,428	203,777	11,750	35,671	56,825	61,979	3,527
Slags and residues	"	5,853	5,809	5,011	323	513	504	617	67
Tin -									
Concentrate	tonnes	6,343	9,249	11,290	1,208	7,636	11,963	11,739	1,445
Refined	"	1,450	2,156	3,939	147	4,535	6,573	12,026	467
Aluminium (d) -									
Alumina	'000 tonnes	1,807	2,626	2,966	(e)	95,125	132,042	155,453	(e)
Refined	tonnes	79,661	96,313	81,344	4,888	35,962	38,886	30,767	2,385
Ferrous and alloy -									
Iron ore -									
Pellets	'000 tonnes	5,628	5,420	7,987	970	62,802	58,274	76,494	8,366
Fines	"	13,478	18,081	25,178	2,359	81,101	105,885	126,313	10,135
Lump	"	29,215	26,738	33,171	3,242	231,485	211,330	236,285	19,978
Tungsten -									
Scheelite concentrate	tonnes	1,224	1,789	1,553	233	3,607	4,332	3,019	427
Wolfram concentrate	"	1,002	736	818	71	4,100	2,066	1,734	154
Pig iron	tonnes	389,722	527,856	687,124	115,367	21,587	23,581	27,286	5,471
Steel ingots, blooms	"	117,210	296,275	743,169	45,021	9,596	18,967	48,377	3,378
Mineral sands -									
Ilmenite concentrate	tonnes	641,060	530,933	521,823	71,284	6,471	5,628	5,731	786
Rutile concentrate	"	380,922	314,770	338,760	41,651	36,399	36,116	39,750	4,998
Zircon concentrate	"	363,160	364,343	419,962	62,759	13,200	13,038	15,131	2,122
Precious -									
Gold, refined	kilograms	2,251	3,718	10,136	..	2,305	4,573	18,239	..
Silver, refined	kilograms	247,586	211,574	181,014	18,781	12,237	9,033	8,731	1,098
FUEL MINERALS									
Coal, black	'000 tonnes	18,997	21,826	25,751	2,018	193,725	237,592	290,703	23,457
Crude oil (f)	'000 cu m	241	1,091	330	20	2,760	14,207	4,910	328

(a) In addition to the commodities listed, significant quantities of nickel ores and concentrates are also exported, but details are not available for publication. (b) The Australian Export Commodity Classification for each commodity in this table is shown in Appendix A. (c) Quantities shown for metallic minerals are gross quantities, not metallic contents. Principal metallic contents of selected ores and concentrates exported are shown in Table 4. (d) In addition to alumina and refined aluminium, significant quantities of bauxite are exported, but details are not available for publication. (e) Available on an annual basis only. (f) Includes also partly refined oil, topped crudes and enriched crudes.

TABLE 4. - PRINCIPAL METALLIC CONTENTS OF SELECTED ORES AND CONCENTRATES ETC. EXPORTED, AUSTRALIA (a)

Particulars	Metallic contents - estimated from assay							
	Copper	Lead	Zinc	Tin	Iron	Tungstic oxide	Gold	Silver
	tonnes	tonnes	tonnes	tonnes	'000 tonnes	metric ton units	kilograms	kilograms
1970-71	45,040	242,409	210,868	2,861	31,197	153,779	6,807	376,888
1971-72	44,310	198,306	203,549	4,589	32,174	156,541	3,131	404,807
1972-73	57,330	191,064	164,453	4,548	41,694	165,595	6,077	385,194
July 1973 -								
Copper concentrate	3,164	..	..	..	..	..	..	561
Lead concentrate	3,594	..	..	..	..	..	..	..
Lead bullion	..	12,379	..	..	..	..	..	27,890
Lead slags and residues	..	7	..	..	..	..	..	..
Zinc concentrate	..	263	36,746	..	..	..	..	..
Zinc slags and residues	..	..	265	..	..	..	..	..
Tin concentrate	..	..	..	559	..	..	..	..
Iron ore - Pellets	..	..	..	..	625	..	..	..
Fines	..	..	..	..	1,454	..	..	..
Lump	..	..	..	..	2,105	..	..	..
Scheelite concentrate	..	..	..	..	..	15,867	..	..
Wolfram concentrate	..	..	..	..	..	5,271	..	..
Total July 1973	6,758	12,649	37,011	559	4,184	21,138	..	28,451

(a) The Australian Export Commodity Classification for each commodity in this table is shown in Appendix A.

TABLE 5. - IMPORTS OF SELECTED MINERALS AND MINERAL PRODUCTS, AUSTRALIA

Commodity (a)	Quantity				Value (\$'000)			
	1970-71	1971-72	1972-73	July 1973	1970-71	1971-72	1972-73	July 1973
METALS								
Tin, refined	tonnes 119	104	65	..	376	325	203	..
Nickel (pigs, anodes, etc.)	tonnes 2,138	1,241	1,060	373	8,781	3,178	2,677	653
Ferro-alloys	tonnes 37,841	27,941	27,203	2,491	11,660	8,234	7,801	821
Gold -								
Unrefined bullion (b)	kilograms 3,214	3,201	3,091	237	3,416	3,804	5,164	561
Refined	" 254	17	160	1	232	27	233	1
FUEL MINERALS								
Crude oil (c)	'000 cu m 13,690	10,960	9,316	830	121,325	115,101	99,384	8,812
NON-METALLIC MINERALS								
Asbestos	tonnes 71,681	61,665	62,905	3,426	10,705	9,852	9,909	481
Diamonds -								
Industrial	metric carat 744,802	567,075	807,960	57,079	3,106	2,360	3,099	178
Gemstone	" 49,847	44,016	59,416	6,399	6,573	6,331	9,346	1,187
Phosphate rock	'000 tonnes 2,108	1,642	2,282	316	22,174	18,157	22,647	3,155
Potassium fertilisers	tonnes 153,268	145,911	165,412	29,226	4,793	4,118	4,701	786
Sulphur	tonnes 273,341	276,745	498,275	44,020	4,906	4,637	6,660	550

(a) The Australian Import Commodity Classification for each commodity in this table is shown in Appendix B. (b) Gold content.

(c) Includes also partly refined oil, topped crudes, enriched crudes and refinery feedstock.

TABLE 6. - EXPORTS OF SELECTED MINERALS AND METALS BY COUNTRY OF CONSIGNMENT, AUSTRALIA (a) (b)

Country	Quantity				Value (\$'000)			
	1970-71	1971-72	1972-73	July 1973	1970-71	1971-72	1972-73	July 1973
REFINED COPPER								
	- tonnes -							
France	6,547	15,264	7,268	950	6,595	13,858	6,214	1,219
Germany, Fed. Rep.	12,230	15,109	13,798	1,000	11,944	13,731	12,255	1,221
United Kingdom	7,747	16,506	23,295	415	7,595	14,953	21,223	532
Japan	5,482	6,599	4,030	..	5,373	6,028	3,547	..
Other countries	4,008	3,041	1,576	61	4,013	2,825	1,491	83
Total	36,014	56,519	49,967	2,426	35,521	51,395	44,729	3,055
LEAD BULLION								
	- tonnes -							
United Kingdom	145,178	112,820	116,776	12,454	47,499	32,450	38,060	4,969
Germany, Fed. Rep.	6,988	12,285	10,295	..	1,898	2,912	2,877	..
Netherlands	27,645	12,707	15,199	..	7,058	2,885	4,004	..
Other countries	..	53	..	..	..	32	..	..
Total	179,811	137,865	142,270	12,454	56,455	38,279	44,940	4,969
REFINED LEAD								
	- tonnes -							
United Kingdom	48,227	46,543	47,775	..	11,099	9,599	12,101	..
United States of America	39,420	39,817	46,480	226	9,098	8,466	10,364	47
India	16,379	13,908	26,109	..	3,948	3,200	6,302	..
Other countries	19,129	30,077	29,327	4,327	4,878	6,965	7,634	1,275
Total	123,155	130,345	149,691	4,553	29,023	28,230	36,400	1,322
ZINC CONCENTRATE								
	- tonnes -							
United Kingdom	178,191	111,291	29,397	11,431	11,750	7,339	1,970	1,047
Japan	122,659	105,838	147,654	27,049	8,689	8,297	11,576	2,631
Norway	33,588	30,611	22,873	15,724	2,032	2,600	1,719	1,306
Belgium	34,271	10,415	24,785	..	2,067	794	1,809	..
India	10,152	8,622	9,966	..	669	606	657	..
Other countries	8,473	97,370	55,161	16,462	531	6,547	3,777	1,953
Total	387,334	364,147	289,836	70,666	25,739	26,184	21,508	6,937

(a) The Australian Export Commodity Classification for each commodity in this table is shown in Appendix A. (b) Quantities shown for metallic minerals are gross quantities, not metallic contents. Principal metallic contents of selected ores and concentrates exported are shown in Table 4.

TABLE 6. - EXPORTS OF SELECTED MINERALS AND METALS BY COUNTRY OF CONSIGNMENT, AUSTRALIA (a) (b) - continued

Country	Quantity				Value (\$'000)			
	1970-71	1971-72	1972-73	July 1973	1970-71	1971-72	1972-73	July 1973
REFINED ZINC								
	- tonnes -							
United Kingdom	15,574	46,022	42,576	3,048	3,841	13,877	10,490	649
United States of America	26,915	39,674	47,854	..	7,284	11,928	16,301	..
India	23,271	22,300	18,475	2,500	6,063	6,344	5,699	783
Thailand	9,549	16,802	14,446	1,835	2,517	4,948	4,480	627
New Zealand	15,741	14,873	20,901	399	4,080	4,382	6,394	147
China, People's Rep. of	2,000	..	..	..	517	..	..	..
Other countries	43,614	50,757	59,525	3,968	11,368	15,347	18,615	1,321
Total	136,664	190,428	203,777	11,750	35,671	56,825	61,979	3,527
IRON ORE								
	- '000 tonnes -							
Japan	41,987	43,574	56,458	5,336	330,808	326,253	384,029	32,880
Germany, Fed. Rep.	1,427	1,637	1,731	272	10,294	11,615	10,612	1,540
United Kingdom	999	694	1,328	..	7,761	5,014	8,704	..
France	814	539	851	..	5,637	4,061	3,518	..
United States of America	793	710	572	103	5,378	6,286	3,576	389
Other countries	2,301	3,086	5,396	861	15,509	22,259	28,652	3,670
Total	48,321	50,240	66,336	6,572	375,388	375,489	439,092	38,479
MINERAL SANDS								
	- tonnes -							
United States of America	315,874	238,238	285,381	32,485	21,861	18,053	21,108	2,340
Japan	374,624	211,313	274,514	15,622	9,293	8,336	10,965	289
United Kingdom	311,248	294,123	281,569	56,387	6,866	7,472	8,883	2,516
Netherlands	81,382	55,986	78,545	23,062	4,434	4,553	4,368	510
Other countries	302,014	410,386	360,536	48,138	13,617	16,367	15,287	2,250
Total	1,385,142	1,210,046	1,280,545	175,694	56,070	54,782	60,612	7,906
BLACK COAL								
	- '000 tonnes -							
Japan	16,170	18,192	23,066	1,896	165,116	197,786	260,205	21,831
Netherlands	960	609	652	..	9,014	7,310	7,330	..
Germany, Fed. Rep.	535	173	84	..	4,855	1,727	664	..
New Caledonia	290	131	11	..	3,138	1,652	158	..
Other countries	1,042	2,721	1,937	123	11,602	29,118	22,346	1,626
Total	18,997	21,826	25,751	2,018	173,725	237,592	290,703	23,457

(a) The Australian Export Commodity Classification for each commodity in this table is shown in Appendix A. (b) Quantities shown for metallic minerals are gross quantities, not metallic contents. Principal metallic contents of selected ores and concentrates exported are shown in Table 4.

TABLE 7. - AVERAGE DAILY PRICES OF SELECTED METALS, AUSTRALIAN AND OVERSEAS MARKETS (a) (b)

Period	Copper		Lead			Zinc				
	Aust. (\$A - tonne)	L.M.E. (£ Stg - metric ton)	Aust. (\$A - tonne)	L.M.E. (£ Stg - metric ton)	U.S.A. (USc-lb)	Aust. (\$A - tonne)	L.M.E. (£ Stg - metric ton)	Prod. (£ Stg - ton)	U.S.A. (USc-lb)	
	1	2	3	4	5	6	7	8	9	
1970-71	(c)1,087.4	477.7	(c)262.4	114.7	14.60	(c)295.7	121.3	128.8	15.25	
1971-72	(c) 976.6	427.9	(c)237.9	106.7	14.72	(c)343.0	141.4	150.0	17.21	
1972-73	<u>990.3</u>	508.6	(c)250.0	137.8	15.63	(c)355.5	177.2	174.3	19.41	
1973-74 - Highest	1,500.0	877.5	320.0	235.5	16.50	400.0	407.0	220.0	22.50	
Lowest	1,240.0	718.8	246.1	167.1	16.50	373.0	271.5	205.0	20.25	
1971-72 - June	(c) <u>962.1</u>	(c) 412.4	(c) 250.0	(c) 121.0	(c) 15.75	(c) 343.0	(c) 143.9	(c) 150.0	(c) 18.50	
1972-73 - July	925.9	422.6	250.0	124.2	15.75	343.0	148.7	159.1	18.50	
August	925.9	427.0	250.0	121.4	15.72	343.0	148.3	160.0	18.50	
September	925.9	434.2	250.0	123.8	15.50	343.0	150.8	160.0	18.50	
October	925.9	428.7	250.0	123.9	15.41	343.0	151.7	160.0	18.50	
November	925.9	427.6	250.0	126.4	15.25	346.5	160.9	162.4	18.64	
December	925.9	435.7	250.0	131.4	15.25	362.0	159.8	173.0	19.50	
January	925.9	474.6	250.0	134.9	15.12	362.0	163.9	173.0	19.50	
February	935.1	511.8	250.0	139.9	15.21	362.0	173.5	173.9	19.50	
March	1,047.2	610.2	250.0	150.5	15.58	362.0	191.7	190.0	19.73	
April	1,110.5	638.8	250.0	155.7	16.00	362.0	206.4	190.0	20.40	
May	1,120.0	613.0	250.0	156.5	16.25	362.0	216.8	190.0	20.62	
June	1,189.5	678.4	<u>250.0</u>	164.9	16.50	<u>375.7</u>	254.3	200.0	21.08	
1973-74 - July	1,366.4	795.4	282.6	184.7	16.50	387.7	330.7	213.2	21.38	
August	1,489.6	843.5	320.0	176.7	16.50	400.0	368.9	220.0	20.97	
Period	Tin			Nickel	Aluminium		Gold		Silver	
	Aust. (\$A - tonne)	L.M.E. (£ Stg - metric ton)	Strait (\$ Mal picul)	U.K. (d) (£ Stg - metric ton)	Aust. (\$A-ton)	U.S.A. (USc-lb)	Premium mar- ket (\$A-f.o.z.) Australia and Overseas	U.K. (\$US-f.o.z.)	Aust.(d) (\$A-kg)	U.K. (£ Stg new pence- f.o.z.)
	10	11	12	13	14	15	16	17	18	19
1970-71	(c)3,344.9	1,476.7	(e)1,473.4	1,231.1	578.0	29.0	33.76	37.87	(c)151.7	70.3
1971-72	(c)3,306.3	1,435.8	(e)1,444.0	1,246.5	578.0	26.6	39.74	46.89	(f)126.9	58.6
1972-73	(c)3,291.2	1,630.5	627.9	1,371.8	578.0	24.3	58.40	77.92	(f)156.6	83.6
1973-74 - Highest	3,930.0	2,062.5	706.0	1,351.0	578.0	25.0	86.78	127.00	63.0	117.1
Lowest	3,467.0	1,810.0	655.1	1,332.2	578.0	25.0	79.55	94.00	60.9	103.9
1971-72 - June	(c) 3,335.5	(c) 1,456.6	(c) <u>1,445.5</u>	(c) 1,246.5	(c) 578.0	(c) 24.0	(c) 52.21	(c) 62.09	(c) 130.5	(c) 61.1
1972-73 - July	3,365.1	1,529.6	622.4	1,246.5	578.0	24.0	54.91	65.67	132.1	70.3
August	3,371.8	1,531.4	623.6	1,246.5	578.0	24.0	55.51	67.03	153.8	75.0
September	3,404.0	1,556.9	627.6	1,246.5	578.0	24.0	54.81	65.49	160.8	72.9
October	3,377.0	1,571.3	621.8	1,430.3	578.0	24.0	54.16	64.83	146.6	75.1
November	3,318.0	1,575.8	609.9	1,430.3	578.0	24.0	51.88	62.91	151.4	77.5
December	3,288.1	1,591.0	619.4	1,430.3	578.0	24.0	53.27	63.91	156.1	83.2
January	3,157.7	1,611.5	620.8	1,430.3	578.0	24.0	50.76	65.14	160.3	84.9
February	3,204.5	1,658.2	623.4	1,457.3	578.0	24.0	52.98	74.20	158.2	91.1
March	3,221.1	1,736.1	646.2	1,412.6	578.0	24.5	58.46	84.26	171.5	92.1
April	3,200.5	1,722.1	651.1	1,387.5	578.0	25.0	63.50	90.54	156.0	87.8
May	3,214.3	1,717.9	637.8	1,387.5	578.0	25.0	67.18	110.96	152.0	92.6
June	<u>3,372.5</u>	<u>1,764.2</u>	<u>630.2</u>	<u>1,356.6</u>	<u>578.0</u>	<u>25.0</u>	<u>83.35</u>	<u>120.12</u>	<u>180.7</u>	<u>100.3</u>
1973-74 - July	3,733.2	1,950.6	690.5	1,332.2	578.0	25.0	86.78	120.12	60.9	110.6
August	3,820.1	2,025.4	695.6	1,351.0	578.0	25.0	79.55	106.76	63.0	108.0

(a) Where a daily market does not actually exist for a commodity, daily prices have been imputed from price data which are available. The numerals shown at the head of each column are reference numbers which relate to the detailed price specifications set out in Appendix C. Appendix C also sets out explanations for abbreviations used, and currency and quantity equivalents for the units referred to in this table. (b) See Note, paragraph 7, page 3. (c) \$A per ton. (d) Monthly prices are average prices on the first trading day of the month. Annual prices are averages of monthly prices. (e) £ Stg per ton. (f) As per f.o.z.

TABLE 8. - PRICES OF SELECTED ORES AND CONCENTRATES, AUSTRALIAN AND OVERSEAS MARKETS (a) (b)

Period	Ilmenite (d)		Rutile (d)		Zircon (d)	
	Tin Aust. (c) (\$A/100)	Wolfram U.K. (d) (£Stg-metric ton)	Aust. (\$A-tonne)	U.K. (£Stg-metric ton)	Aust. (\$A-tonne)	U.K. (£Stg-metric ton)
	20	21	22	23	24	25
1970-71	28.66 (e)22.80-36.75	(f)11	7.38-11.32	(f)145-150	74.78-79.72	(f)35-39
1971-72	28.21 14.00-22.00	(f)11-12	9.35-11.32	(f)115-150	64.00-79.72	(f)35-39
1972-73	27.84 15.81-16.74	(f)10.9-11.8	9.35-11.32	(f)115-125	73.67-77.50	(f)35-39
1973-74 -						
Highest	33.51	17.60	11	11.32	130	90.00
Lowest	30.00	15.70	10.5	9.35	125	86.00
1971-72 -						
June	28.57	15.35-16.20	(f)11-12	9.35-11.32	115-125	64.00-68.00
1972-73 -						
July	27.98	15.20-16.00	11-12	9.35-11.32	115-125	64.00-68.00
August	28.72	15.10-16.00	11-12	9.35-11.32	115-125	64.00-68.00
September	29.11	14.65-15.75	11-12	9.35-11.32	115-125	64.00-68.00
October	28.85	14.10-15.20	11-12	9.35-11.32	115-125	70.00-74.00
November	28.69	14.00-15.00	11-12	9.35-11.32	115-125	70.00-74.00
December	28.27	15.70-16.60	11-12	9.35-11.32	115-125	72.00-76.00
January	26.71	15.70-16.60	11-12	9.35-11.32	115-125	72.00-76.00
February	26.82	15.70-16.60	11-12	9.35-11.32	115-125	80.00-84.00
March	27.20	16.50-17.30	11-12	9.35-11.32	115-125	80.00-84.00
April	27.60	18.30-19.15	10.5-11.0	9.35-11.32	115-125	80.00-84.00
May	26.86	18.30-19.15	10.5-11.0	9.35-11.32	115-125	84.00-87.00
June	27.28	16.50-17.50	10.5-11.0	9.35-11.32	115-125	84.00-87.00
1973-74 -						
July	30.00	15.70-16.70	10.5-11.0	9.35-11.32	125-130	86.00-90.00
August	33.51	17.10-17.60	10.5-11.0	9.35-11.32	125-130	86.00-90.00

(a) The numerals shown at the head of each column are reference numbers which relate to the detailed price specifications set out in Appendix C. Appendix C also sets out explanations for abbreviations used, and currency and quantity equivalents for the units referred to in this table. (b) See Note, paragraph 7, page 3. (c) Monthly prices are average prices on the first trading day of the month. Annual prices are averages of monthly prices. (d) Monthly prices are a range from the lowest price to the highest on the first trading day of the period indicated. Annual prices are a range of lowest and highest prices derived from these monthly prices. (e) $\pm$ \$/Stg per long ton unit. (f) \$A per ton.

TABLE 9. - PRICE INDEX OF METALLIC MATERIALS USED IN THE MANUFACTURE OF FABRICATED METAL PRODUCTS GROUP AND ALL GROUPS INDEX NUMBERS (a)
(Base: Year 1968-69 = 100.0) (b)

Period	Iron and steel	Aluminium	Copper and brass	Other metallic materials	All groups
	83.2% (c)	8.9% (c)	5.7% (c)	2.2% (c)	
1970-71	106.7	104.5	106.5	90.0	106.2
1971-72	116.2	106.8	106.2	83.6	114.1
1972-73	122.6	109.2	106.6	198.7	120.0
1971-72 -					
June	121.1	107.0	105.2	86.5	118.2
1972-73 -					
July	121.1	107.1	105.1	189.5	118.3
August	121.2	107.1	105.2	197.3	118.5
September	121.2	107.1	104.8	193.9	118.4
October	121.5	108.2	102.5	196.0	118.7
November	121.5	108.2	102.5	195.9	118.7
December	121.6	108.3	102.5	199.0	118.9
January	121.7	109.2	102.5	198.9	119.0
February	121.7	109.2	102.5	1102.4	119.1
March	124.6	111.3	108.6	1101.6	122.1
April	124.7	111.3	111.0	198.4	122.1
May	125.1	111.4	112.9	1102.6	122.7
June	125.5	111.5	118.6	1109.3	123.5
1973-74 -					
July	125.6	112.6	127.4	1119.3	124.4
August	125.7	112.6	1143.4	1113.6	125.3

(a) See Appendix D for details on this index. (b) Figures are shown to one decimal place to avoid distortions that would occur in rounding off the index number to the nearest whole number. (c) Value weight (%) of group to all groups.

TABLE 10. - EXPORT PRICE INDEX, AUSTRALIA (a)
(Base : Year 1959-60 = 100)

Period	Metals and coal (b)	Gold	All groups
1970-71	139	109	101
1971-72	138	126	104
1972-73	142	180	p134
1971-72 - June	141	n141	114
1972-73 -			
July	141	n141	114
August	140	n141	113
September	139	184	118
October	139	178	131
November	137	168	127
December	138	172	131
January	135	n172	140
February	136	166	144
March	144	190	p157
April	144	n190	rp138
May	152	210	rp144
June	155	243	rp152
1973-74 -			
July	171	275	p151

(a) See Appendix E for details on this index. (b) Comprises iron and steel, copper, zinc, lead, silver, and coal. (c) Includes in addition to the items of the previous series, the four items iron ore, bauxite, alumina, and mineral sands.

TABLE 11. - COMMONWEALTH GOVERNMENT PAYMENTS TO THE MINERAL INDUSTRY AND TO THE MANUFACTURING INDUSTRY FOR PRODUCTS OF MINERAL ORIGIN, AUSTRALIA
(\$'000)

Period	Petroleum exploration (a) (b)	Gold mining (b) (c)	Phosphate fertilizer production
1970-71	9,643	2,881	40,815
1971-72	7,572	1,852	45,795
1972-73	8,084	295	56,568
1971-72 - June	1,677	497	6,352
1972-73 -			
July	201	- 4	2,204
August	227	82	2,171
September	1,062	128	1,838
October	1,076	22	2,721
November	1,059	5	3,000
December	359	1	2,183
January	1,093	..	3,691
February	90	..	5,567
March	1,112	..	9,102
April	450	62	9,420
May	417	..	8,371
June	936	..	6,299
1973-74 -			
July	974	..	4,402
August	993	..	2,911

(a) Petroleum Search Subsidy Act 1959-1969. (b) Includes Papua New Guinea. (c) Gold Mining Industry Assistance Act 1954-1972. (d) Phosphate Fertilizers Bounty Act 1963-1971.

TABLE 12. - CHANGES IN STOCKS OF GOLD BULLION HELD IN AUSTRALIA

Gold bullion								
Period	Supplies			Disposals			Change in stocks held in Australia (c)	Gold specie - net surplus of imports
	Refinery production (a)	Imports (b)	Total	Exports	Net industrial consumption	Total		
	kilograms	kilograms	kilograms	kilograms	kilograms	kilograms		
1970-71	15,106	3,468	18,574	2,251	25,954	28,205	- 9,631	19,293
1971-72	17,109	3,218	20,327	3,718	27,648	31,366	-11,039	83,767
1972-73	15,373	3,251	18,624	10,136	7,700	17,836	788	42,692
1971-72 -								
May	1,498	198	1,696	1,242	2,792	4,034	- 2,338	9,434
June	1,365	420	1,785	..	374	374	1,411	8,769
1972-73 -								
July	1,724	317	2,041	..	329	329	1,712	3,649
August	1,514	300	1,814	1,241	374	1,615	199	11,993
September	2,094	300	2,394	2,150	206	2,356	38	4,096
October	1,273	316	1,589	1,887	666	2,553	- 964	10,272
November	1,191	218	1,409	497	1,372	1,869	- 460	235
December	1,184	236	1,420	498	77	575	845	20,264
January	1,118	203	1,321	497	324	821	500	6,931
February	1,028	395	1,423	1,293	937	2,230	- 807	-44,089
March	1,415	237	1,652	..	776	776	876	- 1,958
April	963	226	1,189	1,059	424	1,483	- 294	8,377
May	928	253	1,181	994	1,424	2,418	-1,237	16,585
June	941	250	1,191	20	791	811	380	6,337
1973-74 -								
July	1,090	238	1,328	..	826	826	502	-57,966

(a) Refinery production from newly-won gold of Australian origin and scrap of domestic and overseas origin. (b) Includes gold content of gold bullion imported for refining in Australia. (c) Includes changes in holdings in Australia by official and banking institutions both on their own behalf and that of non-residents.

J. P. O'NEILL
Commonwealth Statistician

Commonwealth Bureau of Census and Statistics
Canberra, A.C.T. 2600

NOTE. Inquiries concerning these statistics may be made in Canberra by telephoning Mr F. Archer on 49 0211 extension 391 or, in each State capital, by telephoning the office of the Bureau of Census and Statistics.

APPENDIX A
AUSTRALIAN EXPORT COMMODITY CLASSIFICATION (A.E.C.C.) 1972-73
ITEMS INCLUDED IN TABLES 3, 4 and 6

Commodity	Statistical item	Description
Non-ferrous -		
Copper -		
Concentrate	283.11.00	Ores and concentrates of copper
Blister	682.11.09	Black, blister, rough or standard copper
Refined	682.12.01	Refined copper
Matte, slags, etc.	284.00.23	Copper-lead dross and speiss
	284.00.24	Copper slags and residues
	283.12.00	Copper matte (including copper-lead matte)
Lead -		
Concentrate	283.40.00	Ores and concentrates of lead
Bullion	685.10.11	Bullion (lead and silver-lead)
Refined	685.10.19	Unworked n.e.i.
Slags and residues	284.00.25	Lead slags and residues
Zinc -		
Concentrate	283.50.00	Ores and concentrates of zinc
Refined	686.10.00	Unworked zinc and zinc alloys
Slags and residues	284.00.27	Zinc slags and residues
Tin -		
Concentrate	283.60.00	Ores and concentrates of tin
Refined	687.10.01	Refined tin
Aluminium -		
Alumina	513.65.01	Alumina
Refined	684.10.00	Unworked aluminium and aluminium alloys
Ferrous and alloy -		
Iron ore -		
Pellets	281.30.01	Pellets
Fines	281.30.05	Fines
Lump	281.30.09	Other (including lump and run-of-mine)
Tungsten -		
Scheelite concentrate	283.92.09	Scheelite
Wolfram concentrate	283.92.01	Wolfram
Pig iron	671.10.00	Spiegeleisen
	671.20.00	Pig iron and cast iron
Steel ingots, blooms	672.40.01	Ingot, blocks, lumps and similar forms of iron or steel
	672.40.09	Other
	672.51.00	Blooms, billets, slabs, sheet bars and roughly forged pieces (except of high carbon or alloy steel)
	672.54.00	Blooms, billets, slabs, sheet bars and roughly forged pieces of high carbon or alloy steel
Mineral sands -		
Ilmenite concentrate	283.93.13	In bulk
	283.93.15	In bags, drums and similar containers
Rutile concentrate	283.93.02	In bulk
	283.93.03	In bags, drums and similar containers
Zircon concentrate	283.93.22	In bulk
	283.93.23	In bags, drums and similar containers
Precious -		
Gold, refined	991.00.03	Mint bullion (i.e. in the form accepted in inter-bank transactions)
	991.00.08	Refined bullion (except mint bullion)
Silver, refined	681.10.01	Mint bullion (i.e. in the form accepted in inter-bank transactions)
	681.10.09	Other
Coal, black	321.40.00	Coal (anthracite, bituminous and sub-bituminous)
Crude oil	331.01.00	Crude petroleum
	331.02.00	Petroleum, partly refined (including topped crudes and enriched crudes)

APPENDIX B
AUSTRALIAN IMPORT COMMODITY CLASSIFICATION (A.I.C.C.) 1972-73
INCLUDED IN TABLE 5

<i>Commodity</i>	<i>Statistical item</i>	<i>Description</i>
Tin refined	687.10.01	Tin
Nickel, pigs, anodes, etc.	{ 683.10.01	Pellets; shot; granulated
	{ 683.10.02	Other
	{ 683.24.00	Electroplating anodes of nickel
Ferro-alloys	{ 671.40.09	Ferro-manganese
	{ 671.50.02	Ferro-chromium
	{ 671.50.03	Ferro-molybdenum
	{ 671.50.04	Ferro-nickel
	{ 671.50.05	Ferro-silicon
	{ 671.50.09	Other
Gold -		
Unrefined bullion	991.00.02	Unrefined bullion
	{ 991.00.03	Mint bullion (i.e. in the form accepted in inter-bank transactions)
Refined forms	{ 991.00.04	Refined bullion (except mint bullion)
Crude oil	{ 331.01.00	Crude petroleum
	{ 331.02.01	Topped crudes
	{ 331.02.02	Crude petroleum, enriched with a distillate from crude petroleum
	{ 331.02.09	Other oils for use as refinery feed-stock (including enriched residuals)
Asbestos	{ 276.40.01	Amosite
	{ 276.40.02	Chrysotile (white)
	{ 276.40.09	Other
Diamonds -		
Industrial	{ 275.10.01	Uncut
	{ 275.10.09	Other
	{ 275.21.01	Diamond dust and powder
Gemstone	667.20.00	Gemstone diamonds
Phosphate rock	271.30.00	Natural phosphates, whether or not ground
Potassium fertilisers	{ 561.30.01	Potassium chloride
	{ 561.30.02	Potassium sulphate
	{ 561.30.09	Other
Sulphur	274.10.01	In bulk
	{ 274.10.05	Bagged or otherwise packed -
	{ 274.10.07	Insoluble
		Other

APPENDIX C
PRICES OF SELECTED METALS AND MINERALS (TABLES 7 AND 8)

Reference number	Particulars of Price Bases
1.	Refined electrolytic copper, ex-smelter Port Kembla.
2.	Refined electrolytic copper wirebars, L.M.E. warehouse, mid-day cash price, average of buyers' and sellers' quotes, L.M.E.
3.	Refined soft pig lead, f.o.b. Port Pirie.
4.	Refined soft pig lead, L.M.E. warehouse, mid-day cash price, average of buyers' and sellers' quotes, L.M.E.
5.	Refined soft pig lead, ex-warehouse, mid-day New York.
6.	Zinc, g.o.b. grade, delivered Melbourne, Sydney, Port Kembla and Adelaide.
7.	Zinc, g.o.b. grade, L.M.E. warehouse, mid-day cash price, average of buyers' and sellers' quotes, L.M.E.
8.	Zinc, g.o.b. grade, producers' basis price.
9.	Zinc, Prime Western, delivered.
10.	Refined tin, domestic 5 tonne lots, delivered Sydney.
11.	Refined tin, L.M.E. warehouse, mid-day cash price, average of buyers' and sellers' quotes, L.M.E.
12.	Refined tin, ex-works, Penang; average of buyers' and sellers' quotes, L.M.E.
13.	Refined nickel, delivered United Kingdom.
14.	Refined aluminium, 99.5% domestic, 1.20 K ingots, c.i.f. capital cities.
15.	Refined aluminium, ingot 99.5% carload lots delivered.
16.	Australian gold sold on Australian and Overseas premium markets by the Gold Producers' Association. Prices relate to the month in which sales contracts are negotiated and do not necessarily relate to the month in which the gold is actually delivered and/or exported. The Reserve Bank official price is \$29.80 per fine ounce.
17.	Refined gold, spot, London open market.
18.	Refined silver, minimum lots of 320 kilograms, f.o.b. or f.o.r. Port Pirie.
19.	Refined silver, spot, London.
20.	Concentrates, per 100 of contained tin, 70% Sn grade, delivered Sydney.
21.	Concentrates, per mtu, wolfram, c.i.f. standard quality minimum 65% WO ₃
22.	Nominal prices*, concentrates, 52-54% TiO ₂ , f.o.b. Bunbury.
23.	Concentrates, 52-54% TiO ₂ , Malaysian origin, c.i.f.
24.	Nominal prices*, concentrates, 95-97% TiO ₂ , bagged f.o.b./f.o.r.
25.	Concentrates, 95-97% TiO ₂ , bagged c.i.f. Europe.
26.	Nominal prices*, concentrates, bagged minimum 65% ZrO ₂ , f.o.b.
27.	Concentrates, 66-67% ZrO ₂ , c.i.f. standard grade.

* These domestic prices for ores and concentrates are nominal, the prices quoted being subject to negotiation between the producer and purchaser. Ore and concentrate prices will also vary according to grade and possible impurities, and in many cases with size of the ore parcel.

Currency and quantity equivalents

Unit	Equivalent to -
\$Mal l	July \$A0.31 August \$A0.31
£Stg l	July \$A1.81 August \$A1.74
\$US l	July \$A0.71 August \$A0.71
f.oz	31.1035 g
lb	0.45359237 kg
ltu	10.160469 kg
mtu	10 kg
picul	60.463863 kg
metric ton	1 tonne
ton	1.01605 tonne
1 Stg new pence	d Stg 2.4 old pence

Abbreviations used

c.i.f.	cost, insurance, freight
f.o.b.	free on board
f.o.r.	free on rail
g.o.b.	good ordinary brand
L.M.E.	London Metal Exchange
ltu	long ton unit
mtu	metric ton unit

APPENDIX D

PRICE INDEX OF METALLIC MATERIALS USED IN THE MANUFACTURE OF FABRICATED METAL PRODUCTS
(TABLE 9)

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1. This index is a fixed weights index compiled on the reference base 1968-69 = 100.0 using the method known as the weighted arithmetic mean of price relatives.
 2. Prices for each of the items relate to representative goods of fixed specification collected from a selection of representative sources. In each case, these specifications are sufficiently detailed to ensure that the price changes incorporated in the indexes are measured, as far as possible, on the basis of constant quality.
 3. The price series used are obtained monthly, by mail collection, from major Australian manufacturers of the relevant materials. In the main prices are collected as at the mid-point of each month.
 4. The prices collected are, as far as possible, those normally charged to representative manufacturers for goods delivered into their stores.
 5. The index is comprised of important metallic materials selected and combined in accordance with a weighting pattern reflecting value of usage as reported at the 1968-69 Census of Manufacturing Establishments for establishments classified to the Fabricated Metal Products Sub-division of Manufacturing Industry (Australian Standard Industrial Classification Sub-division 31).
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APPENDIX E

EXPORT PRICE INDEX (TABLE 10)

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1. Figures from July 1969 have been compiled on an interim basis which incorporates a re-weighting (1969-70 basis) of the items contained in the previous series and the inclusion of some additional items. The interim series have been linked to the previous series at June 1969. A comprehensive review and re-basing of the index is being undertaken.
 2. The base of each index is -

$$\text{Year 1959-60} = 100.$$
 3. The *All groups* index includes wool, meats, dairy produce, cereals, dried and canned fruit, sugar, hides and tallow, metals and coal, gold, and from July 1969, iron ore, bauxite, alumina and mineral sands.
 4. A detailed description of the index, as constructed up to June 1969 is given in *Year Book* No. 57, 1971, pages 238-240. The interim series was introduced in the July 1970 issue of *Export Price Index* (Reference No. 9.2).
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