

AUSTRALIAN BUREAU OF STATISTICS Canberra

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MINERALS AND MINERAL PRODUCTS

NOVEMBER 1977

INQUIRIES

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EXPLANATORY NOTES

Introduction

This bulletin contains the following statistics :

- . principal minerals and mineral products produced in Australia
- . overseas trade in selected minerals and mineral products
- . related prices and price indexes.

2. In order to achieve early release for the majority of the statistics, this bulletin is published according to a set timetable. Consequently, although the statistics shown are the latest available at the time of issue they do not in all cases relate to the month to which the bulletin title refers.

Sources of Data

3. Table 1. Mine production statistics are collected by :

- . Bureau of Mineral Resources
- . Department of National Development
- . State Mines Departments.

The 1975-76 and 1976-77 annual statistics shown in this table have been obtained by adding together the published monthly or quarterly figures. In some cases, there will be small discrepancies between these figures, and those published in the bulletin *Mineral Production* (8405.0.) The figures in *Mineral Production* are derived from the annual mining census which is conducted by this Bureau in collaboration with State Mines Departments. The census figures should be considered the more accurate. For previous years, the annual statistics shown are those derived from the annual mining census.

Table 2. Production of principal manufactured products of mineral origin:

- . statistics of non-ferrous metal production, refined gold and refined silver are collected by the Bureau of Mineral Resources.
- . data on petroleum products are collected by the Department of National Development.
- . other data in this table are collected by the Australian Bureau of Statistics.

Tables 3 to 6. Overseas Trade data are extracted from this Bureau's compilation of overseas trade statistics, which are derived from documents obtained under the Customs Act by the Department of Business and Consumer Affairs.

Tables 7 and 8. Prices data shown are those quoted in the relevant markets and are mainly derived from information collected and compiled by the Bureau of Mineral Resources. Overseas data are supplied to the Bureau of Mineral Resources by the *Metal Bulletin* and *Metals Week*. For further information, see Appendix C.

Tables 9 and 10. Price indexes data for metallic materials and exports are derived from this Bureau's compilation of price indexes.

Commodity Grouping

4. Commodities in Tables 1 to 6 are grouped according to conventions generally accepted in the mineral industry.

Seasonal Adjustment

5. 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 days' 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* (1308.0.)

Symbols and other usages

- r figure or series revised since previous issue
- ... nil or less than half the final digit shown, or not applicable
- 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.

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

RELATED PUBLICATIONS

The following is a list of publications containing other mining and related statistics for Australia, published by this Bureau, the Bureau of Mineral Resources, or by this Bureau in conjunction with the Bureau of Mineral Resources. All publications produced by the Australian Bureau of Statistics are listed in *Catalogue of Publications* (1101.0) which is available free of charge from any Australian Bureau of Statistics office. Users are also referred to the annual reports of the State Mines Departments, which contain mineral statistics.

Commodity statistics

Monthly

Exports of Major Commodities by Country (5403.0.) (a)
Overseas Trade Statistics : Part 1 - Exports (5404.0.) (a)
Overseas Trade Statistics : Part 2 - Imports (5406.0.) (a)
Monthly Bulletin of Metal and Mineral Prices (a) (b)
Manufacturing Production Bulletins Nos. 1-8 (Commodity Statistics) (8357.0 to 8364.0) (a)

Quarterly

Australian Mineral Industry Quarterly Review and Statistics (8403.0.) (b)
Quarterly Bulletin of Mineral Sands Statistics (a) (b)
Quarterly Bulletin of Copper, Lead and Zinc Statistics (a) (b)
Quarterly Bulletin of Tin Statistics (a) (b)

Annual

Mineral Production (8405.0.) (a)
Manufacturing Commodities : Selected Principal Articles Produced. Preliminary (8365.0.) (a)
Manufacturing Commodities : Principal Articles Produced (8303.0.) (a)
Overseas Trade (5409.0.)
Overseas Trade (Preliminary) : Part 1 - Exports (5407.0.) (a)
Overseas Trade (Preliminary) : Part 2 - Imports (5408.0.) (a)

Industry and related statistics

Quarterly

Mineral Exploration (other than for petroleum) by Principal Enterprises (8408.0.) (a)
Petroleum Exploration (8409.0.) (a)

Annual

Mining Establishments : Summary of Operations (8401.0.) (a)
Mining Establishments : Details of Operations (8402.0.) (a)
Manufacturing Establishments : Details of Operations (8203.0.)
Manufacturing Establishments : Summary of Operations (8202.0.) (a)
Mineral Exploration (8407.0.) (a)
Australian Mineral Industry Annual Review (b)

Irregular

Foreign Ownership and Control of the Mining Industry (5317.0.) (a)
Foreign Control in Mineral Exploration (5323.0.) (a)

(a) Available free of charge. (b) Published by Bureau of Mineral Resources, Canberra.

R. J. CAMERON
 Australian Statistician

TABLE 1. MINE PRODUCTION OF PRINCIPAL MINERALS, AUSTRALIA

Period	Copper (a)	Lead (a)	Zinc (a)	Tin (a)	Nickel (a)	Bauxite	Iron ore and concentrate (b)		Manganese ore	Tungsten (WO ₃)	Gold (a)(c)
	tonnes	tonnes	tonnes	tonnes	tonnes	'000 tonnes	'000 tonnes	'000 tonnes	tonnes	kg	
1974-75	235,590	416,500	508,174	10,168	59,109	22,205	98,159	1,410	2,196	15,061	
1975-76 (d)	217,439	395,633	481,610	9,442	81,030	21,084	92,672	1,861	2,358	17,422	
1976-77 (d)	210,426	416,971	475,557	10,015	80,833	25,469	95,602	1,765	2,850	15,305	
July-Nov. -											
1976-77	88,546	186,194	212,796	4,239							
1977-78	94,053	199,253	228,367	4,458							
1976-77 -											
September	17,000	38,974	43,572	773						1,349	
October	17,098	34,684	39,906	839	19,837	6,249	23,823	579	652	1,264	
November	17,372	37,093	44,848	820							
December	16,771	26,775	30,967	902							
January	15,996	21,825	25,411	906	18,825	6,245	24,940	302	579	1,008	
February	15,453	31,100	39,526	756							
March	18,002	38,321	46,896	894							
April	17,958	32,367	35,418	732	20,022	6,729	21,778	389	994	1,042	
May	18,885	39,177	41,502	788							
June	18,815	41,212	43,041	798							
1977-78 -											
July	19,489	39,097	44,521	822	6,451	26,462	443	681	1,767	2,340	
August	21,204	42,726	51,238	813							
September	16,739	38,619	44,207	751							
October	17,651	37,778	41,841	1,041						1,646	
November	18,970	41,033	46,560	1,031							
Period	Mineral sands concentrates				Black coal			Petroleum (c)			
	Silver (a)	Ilmenite (f)	Rutile	Zircon	Under-ground	Total	Seasonally adjusted (g)	Brown coal	Crude oil	Natural gas	
	kg	tonnes	tonnes	tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 cu m	million cu in	
1974-75	709,092	891,090	334,205	392,751	37,202	70,142	..	27,514	23,096	4,633	
1975-76 (d)	738,373	948,792	362,769	384,823	36,193	69,466	..	29,212	23,891	5,388	
1976-77 (d)	823,866	1,048,228	380,679	420,160	40,399	75,678	..	31,028	24,555	6,365	
July-Nov. -											
1976-77	360,433				17,457	32,366	..		10,217	2,734	
1977-78	373,108				18,636	35,103	..		10,560	3,066	
1976-77 -											
September	68,014	81,447	37,248	35,903	3,527	6,629	6,808	2,994	2,142	575	
October	72,997	81,129	31,013	35,817	3,586	6,793	6,281	2,611	1,920	533	
November	77,313	87,001	31,850	36,717	3,909	6,919	5,676	2,603	1,765	473	
December	63,181	98,764	41,577	41,504	3,124	5,505	5,955	2,260	1,983	470	
January	50,755	88,047	21,224	27,841	1,891	3,715	6,294	1,986	2,097	411	
February	60,248	83,194	29,641	30,206	3,634	6,724	6,549	2,050	1,897	463	
March	72,356	99,307	35,145	37,482	3,964	7,149	6,600	2,562	2,167	514	
April	65,233	73,754	26,298	30,350	2,622	5,497	6,331	2,671	1,834	521	
May	75,774	79,953	27,328	33,225	3,890	7,206	6,259	2,716	2,214	601	
June	75,886	80,686	35,440	38,863	3,816	7,517	6,831	3,015	2,146	651	
1977-78 -											
July	76,185	91,914	26,172	37,816	3,527	6,954	6,505	2,885	2,165	711	
August	82,545	95,274	25,725	40,392	3,614	6,630	7,433	2,752	2,196	651	
September	72,528	93,160	24,373	32,389	3,516	6,901	6,926	2,162	2,006	622	
October	71,265	93,661	24,534	33,911	3,799	7,085	6,558		2,207	543	
November	70,585				4,180	7,532	6,139		1,986	538	

(a) Quantities shown are metallic contents of mine products based on chemical assay. (b) Includes iron ore for pelletising. (c) Western Australian and Northern Territory gold production figures (in respect of major producers) normally relate to a four-week period ending in the calendar month indicated. However, two such periods ended in the calendar months of July 1977 for the Northern Territory and March 1977 for Western Australia. (d) See explanatory notes, paragraph 3, page 1. (e) Source : Department of National Development. (f) Includes ilmenite for beneficiating. (g) See explanatory notes, paragraph 5, page 1.

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

Period	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
1974-75	5,073	222,876	189,257	178,451	149,876	170,508	243,209	5,973	9,614	7,398
1975-76	5,619	220,027	174,230	164,279	152,299	168,183	204,534	5,386	9,980	7,519
1976-77	6,474	236,943	164,041	154,104	158,656	165,582	258,564	5,373	9,761	6,958
July-Nov. -										
1976-78			69,022	65,324	70,120	82,432	114,915	2,615	3,785	2,976
1977-78			72,426	63,431	68,771	92,226	106,452	2,542	4,348	2,780
1976-77 -										
September	539	19,335	14,705	13,870	13,939	15,897	23,434	695	663	605
October	543	20,242	13,422	12,186	13,176	16,446	23,197	451	822	571
November	482	19,483	14,498	11,309	11,795	14,583	21,104	496	736	495
December	605	20,058	13,505	11,806	12,877	15,205	20,940	405	831	557
January	563	19,833	12,981	8,490	10,653	13,754	20,806	161	967	604
February	514	18,015	11,657	13,381	9,584	13,292	17,558	393	886	527
March	557	20,154	13,511	14,728	12,085	13,888	19,390	570	815	580
April	531	19,769	14,334	11,587	13,791	8,652	22,100	394	878	574
May	529	20,201	13,978	13,113	15,323	1,820	20,628	358	940	601
June	492	19,760	15,053	15,675	14,223	16,539	22,227	477	659	541
1977-78 -										
July	602	21,023	15,952	10,714	14,377	18,550	22,021	422	709	508
August	580	22,112	15,789	13,301	13,098	17,892	21,307	378	834	613
September	572	21,311	14,841	13,051	13,946	20,151	21,954	694	984	546
October			12,041	12,111	14,647	17,368	21,633	524	952	564
November			13,803	14,254	12,703	18,265	19,537	524	869	549

Period	Raw steel (e)				Refined gold (g)					
	Seasonally adjusted (f)		Blooms and slabs		Australian origin		Overseas origin		Refined silver	
	Original	'000 tonnes	'000 tonnes	Tinplate	Newly won	From scrap	Newly won	From scrap		
		'000 tonnes	'000 tonnes	tonnes	kg	kg	kg	kg	kg	kg
1974-75	8,063	..	6,215	311,023	10,744	803	2,929	83	272,855	
1975-76	7,937	..	5,566	282,241	11,829	1,235	3,025	75	226,209	
1976-77	7,473	..	6,028	340,556	11,127	1,667	2,481	171	253,268	
July-Nov. -										
1976-77	3,149	..	2,394	139,206	4,857	761	1,172	43	106,234	
1977-78	3,019	..	2,735	146,725	8,074	1,159	836	15	111,917	
1976-77 -										
September	631	625	462	25,535	999	155	260	16	21,096	
October	635	598	501	29,075	1,211	122	208	..	19,536	
November	554	525	458	28,977	976	177	226	..	22,216	
December	624	603	505	26,693	768	87	208	36	26,290	
January	679	686	483	29,856	740	89	206	2	20,735	
February	566	623	391	26,251	842	132	197	1	20,511	
March	544	549	517	29,932	629	183	178	47	26,942	
April	637	683	569	29,272	1,081	102	171	14	18,447	
May	651	643	597	29,850	864	153	137	4	17,912	
June	603	665	573	29,496	1,346	160	212	24	16,196	
1977-78 -										
July	588	571	535	29,473	1,591	175	168	..	18,964	
August	619	601	549	29,591	1,415	189	185	7	24,233	
September	617	602	582	28,062	1,859	364	198	..	24,287	
October	638	603	587	31,625	1,500	156	168	6	19,948	
November	557	543	483	27,974	1,709	275	117	2	24,485	

(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) See explanatory notes, paragraph 5, page 1. (g) See explanatory notes, paragraph 3, page 1.

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

Petroleum refinery input and products (h)							
Period	Input	Motor spirit	Aviation turbine fuel	Furnace fuel	Automotive distillate	Industrial diesel fuel	Bitumen
	'000 tonnes	mil. litres	mil. litres	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes
1974-75	27,296	12,508	2,124	4,656	4,682	1,110	461
1975-76	27,407	12,501	2,088	4,340	5,003	1,216	506
1976-77	28,574	13,056	2,115	4,604	5,249	1,242	492
July-Nov. -							
1976-77							
1977-78							
1976-77 -							
September	2,385	1,093	178	380	417	105	27
October	2,123	929	169	353	388	119	31
November	1,884	812	174	310	363	80	40
December	2,628	1,120	211	449	493	111	52
January	2,510	1,157	207	348	486	105	34
February	2,394	1,099	198	392	440	104	46
March	2,215	1,129	180	400	386	94	48
April	2,341	1,145	174	306	445	97	46
May	2,505	1,185	160	360	490	80	55
June	2,453	1,053	149	389	433	113	45
1977-78 -							
July	2,457	1,096	195	287	411	116	41
August	2,470	1,216	135	382	415	105	36
September	2,556	1,208	199	400	465	122	39
October	2,571	1,146	206	416	496	139	39
November							
Building materials							
Coal products		Portland cement		Chemicals			
Period	Metallurgical coke	Brown coal briquettes	Original	Seasonally adjusted (i)	Original	Seasonally adjusted (i)	Superphosphate (i)
	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes	'000 tonnes
1974-75	5,497	1,092	5,086	..	1,770	..	3,309
1975-76	5,253	946	5,007	..	1,295	..	2,185
1976-77	4,876	1,035	5,039	..	1,741	..	3,219
July-Nov. -							
1976-77		459	2,221	..	630	..	1,065
1977-78		329	2,225	..	647	..	1,132
1976-77 -							
September		105	432	416	130	135	217
October	1,201	{ 95	443	412	136	133	313
November		{ 89	436	409	147	143	251
December		{ 63	434	425	168	151	259
January	1,150	{ 60	282	417	143	132	267
February		{ 80	409	436	139	131	284
March		{ 92	410	391	143	143	322
April	1,171	{ 87	434	442	167	151	346
May		{ 92	421	389	174	167	348
June		{ 102	429	428	179	200	327
1977-78							
July	1,183	{ 121	461	429	109	141	149
August		{ 90	430	421	104	120	162
September		{ 70	430	405	142	144	277
October		48	432	406	135	134	205
November		..	472	448	157	156	338

(h) Produced by Australian refineries from imported and indigenous petroleum. Source : Department of National Development. (i) See explanatory notes paragraph 5, page 1. (j) Includes double and triple superphosphate, expressed in terms of single superphosphate i.e. 22% P₂O₅ equivalent.

TABLE 3. EXPORTS OF SELECTED MINERALS AND METALS BY COUNTRY OF CONSIGNMENT, AUSTRALIA (a)(b)

Country	Quantity (tonnes)					Value (\$'000)				
	1975-76	1976-77	July-Nov.		Nov.	1975-76	1976-77	July-Nov.		Nov.
			1976-77	1977-78	1977			1976-77	1977-78	1977
COPPER, REFINED, UNWORKED										
Belgium-Luxembourg	7,609	9,343	4,254	5,895	1,750	7,544	11,214	5,083	6,340	1,828
France	12,822	13,659	4,153	4,253	1,701	12,894	16,412	4,799	4,366	1,732
Germany, Fed. Rep	24,889	14,750	4,678	5,861	2,067	23,059	17,611	5,670	6,180	2,101
Italy	2,770	3,030	1,011	1,267	506	2,741	3,653	1,219	1,347	519
Japan	5,890	8,684	4,602	2,770	76	5,570	10,436	5,365	2,933	66
United Kingdom	20,733	19,314	7,802	7,505	3,005	20,071	23,571	9,319	8,082	3,179
Other countries	11,130	6,515	3,533	1,017	28	10,833	8,116	4,299	1,160	35
Total	85,843	75,295	30,033	28,568	9,133	82,715	91,013	35,755	30,408	9,460
LEAD AND LEAD ALLOYS (including silver-lead) UNWORKED										
Belgium-Luxembourg	1,280	8,340	1,850	5,000	1,250	496	5,507	965	3,739	896
China - excl. Taiwan Province	..	8,000	5,001	..	..	..	3,070	1,647	..	..
- Taiwan Province only	5,523	5,408	2,362	2,574	558	1,532	2,049	894	1,395	289
India	32,518	25,605	17,039	7,600	2,495	9,178	9,351	5,979	4,141	1,330
Iran	12,017	8,131	6,101	6,025	2,001	2,987	3,092	2,214	3,051	995
Italy	15,687	22,510	9,066	6,143	2,507	4,656	10,447	3,179	3,069	1,244
Netherlands	16,860	18,946	6,600	5,235	1,250	6,482	11,341	3,300	3,726	920
New Zealand	8,257	7,670	4,252	4,279	430	2,556	3,664	1,682	2,317	235
Poland	2,100	4,999	2,000	1,000	..	607	2,198	715	475	..
United Kingdom	172,367	145,980	77,934	74,388	19,502	74,605	96,193	43,268	50,758	13,592
United States of America	20	12,243	4,081	10,665	..	48	5,810	1,590	5,997	..
Other countries	43,814	28,711	15,390	15,891	3,525	7,982	12,784	5,956	9,033	2,124
Total	310,443	296,543	151,675	138,799	33,518	111,129	165,506	71,389	87,700	21,624
ZINC, ORE AND CONCENTRATES										
Belgium-Luxembourg	64,559	19,259	10,797	3,237	..	9,028	2,737	1,530	451	..
Germany, Fed. Rep.	3,647	3,251	3,251	3,223	..	528	455	455	410	..
Japan	174,355	258,929	132,876	92,447	17,877	26,890	41,789	19,853	13,414	2,118
Netherlands	141,905	80,037	52,663	37,387	..	20,175	11,233	7,070	4,622	..
Other countries	40,116	17,636	1	15,301	5,541	5,603	2,736	..	1,736	682
Total	424,582	379,113	199,588	151,595	23,418	62,224	58,950	28,907	20,633	2,800
ZINC AND ZINC ALLOYS, UNWORKED										
China - excl. Taiwan Province	10	..	..	..	..	6	..	..	..	..
- Taiwan Province only	11,657	17,415	7,072	5,544	1,000	6,820	11,219	4,302	3,167	507
Hong Kong	6,075	8,595	3,454	3,506	544	3,789	5,880	2,196	2,099	295
India	5,173	17,777	8,590	4,246	1,067	2,957	11,744	5,302	2,355	551
Indonesia	19,392	24,007	10,275	12,474	2,675	11,442	15,685	6,329	7,261	1,432
Malaysia	5,785	7,724	3,330	2,521	625	3,363	4,878	2,001	1,388	330
New Zealand	13,941	19,778	9,686	5,392	493	8,349	13,031	5,991	3,718	259
Thailand	14,832	19,590	7,461	6,317	1,510	8,909	12,888	4,577	3,660	812
United States of America	21,766	27,999	13,825	13,583	2,000	13,384	18,582	8,825	8,477	1,136
Other countries	25,437	27,169	15,218	8,974	954	11,797	15,474	7,749	5,201	492
Total	124,068	170,054	78,911	62,557	10,868	70,816	109,382	47,271	37,326	5,814

For footnotes see end of table

TABLE 3. EXPORTS OF SELECTED MINERALS AND METALS BY COUNTRY OF CONSIGNMENT, AUSTRALIA (a)(b) - continued

Country	Quantity ('000 tonnes)					Value (\$'000)				
	1975-76	1976-77	July-Nov.		Nov.	1975-76	1976-77	July-Nov.		Nov.
			1976-77	1977-78				1976-77	1977-78	
IRON ORE AND CONCENTRATES (except roasted iron pyrites)										
Belgium-Luxembourg	1,643	2,066	1,177	379	..	16,094	19,725	10,562	3,542	..
China - excl. Taiwan Province	1,444	1,182	744	694	163	14,030	12,459	7,470	7,827	1,793
- Taiwan Province only	7	360	42	485	162	627	4,183	516	5,882	1,974
France	1,933	1,512	580	932	73	18,241	17,444	6,684	10,287	710
Germany, Fed. Rep.	4,135	4,118	2,322	1,175	102	44,215	47,258	25,401	13,487	1,322
Italy	2,198	1,957	994	698	54	21,477	19,980	9,267	7,367	686
Japan	62,548	61,819	27,363	26,933	4,793	609,375	695,896	280,817	341,991	63,273
Korea, Republic of	28	1,778	810	709	192	2,514	19,638	8,508	8,841	2,795
Netherlands	2,216	2,574	1,253	982	112	18,734	23,823	11,109	8,577	995
Other countries	2,779	3,406	1,592	538	85	25,691	41,258	19,922	5,658	1,031
Total	78,931	80,772	36,878	33,525	5,737	770,998	901,664	380,255	413,459	74,579
TITANIUM AND ZIRCONIUM ORE AND CONCENTRATE										
Brazil	37	93	34	31	..	2,557	3,640	1,946	749	..
France	152	190	98	53	..	6,347	6,542	2,994	1,288	6
Germany, Fed. Rep.	33	43	25	6	6	6,460	4,820	3,211	866	790
Italy	36	70	41	19	5	7,015	8,091	3,559	2,140	414
Japan	217	338	182	87	18	19,511	25,882	14,232	3,635	1,185
Netherlands	69	57	23	70	4	10,063	7,345	2,942	6,079	281
Poland	8	14	5	2	1	1,852	3,303	1,158	453	124
Romania	9	10	10	2	..	2,230	2,269	2,269	165	..
Spain	18	86	32	29	7	3,082	5,055	1,844	1,350	505
United Kingdom	237	353	130	105	..	15,758	16,143	4,896	6,111	50
United States of America	345	472	201	250	34	43,359	42,277	18,879	15,034	914
Other countries	125	140	37	43	30	12,558	12,509	5,230	3,152	1,142
Total	1,286	1,866	818	696	105	130,792	137,876	63,160	41,022	5,409
COAL (ANTHRACITE, BITUMINOUS AND SUB-BITUMINOUS) (except briquettes)										
France	1,011	1,376	298	721	134	31,391	41,303	9,566	23,222	4,000
Italy	938	1,109	346	479	143	30,326	40,540	12,550	18,911	5,966
Japan	23,358	26,946	11,563	14,307	2,067	877,230	1,046,760	435,166	459,580	87,060
Korea, Republic of	641	1,100	485	457	123	21,970	39,915	17,298	18,386	4,970
Netherlands	497	942	326	665	90	14,070	28,759	11,934	21,481	3,218
Spain	326	243	74	231	75	11,916	10,432	2,908	9,187	2,947
United Kingdom	2,705	1,716	802	718	259	51,966	40,922	17,008	18,794	7,316
Other countries	785	1,044	258	1,378	501	23,677	33,431	8,714	41,990	16,696
Total	30,260	34,476	14,151	18,956	3,395	1,062,546	1,282,062	515,143	611,551	132,174

(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 5.

TABLE 4. EXPORTS OF SELECTED MINERALS AND MINERAL PRODUCTS, AUSTRALIA (a)

		Quantity					Value (\$'000)				
Commodity (b)		1975-76	1976-77	July-Nov. 1976-77	1977-78	Nov. 1977	1975-76	1976-77	July-Nov. 1976-77	1977-78	Nov. 1977
METALLIC MINERALS AND METALS (b)											
Non-ferrous --											
Copper --											
Concentrate	tonnes	158,891	143,013	77,265	43,532	1,002	40,838	50,960	25,806	13,745	913
Blister	"	9,497	7,247	1,766	5,519	..	13,505	13,254	3,430	1,077	..
Refined	"	85,843	75,295	30,022	28,527	9,130	82,715	91,013	35,728	30,340	9,453
Matte, slags, etc.	"	30,548	10,647	3,810	4,909	1,480	2,546	5,033	1,527	2,081	638
Lead --											
Concentrate	tonnes	84,507	68,482	21,866	54,855	9,426	19,044	20,348	7,170	16,700	2,743
Bullion	"	151,652	156,846	80,885	77,973	19,003	70,841	106,239	45,524	55,585	140,049
Refined	"	153,675	132,441	67,868	57,222	14,020	38,103	55,748	24,557	29,879	7,271
Slags and residues	"	19,340	14,796	3,924	1,275	264	1,544	1,985	786,273	340	78
Zinc --											
Concentrate	tonnes	424,582	379,113	199,588	151,595	23,418	62,224	58,950	28,907	20,633	2,800
Refined	"	124,068	170,054	78,911	62,557	10,868	70,816	109,382	47,271	37,326	5,814
Slags and residues	"	5,304	6,515	2,816	2,812	725	1,482	1,809	720	829	201
Tin --											
Concentrate	tonnes	7,339	11,642	4,434	5,584	961	14,217	29,042	8,571	14,392	3,791
Refined	"	2,351	1,838	1,073	1,457	527	12,131	13,335	6,861	13,570	5,235
Nickel --											
Ore and concentrate	tonnes	Not available					10,838	10,440	5,087	6,084	..
Aluminium (c) --											
Alumina	'000 tonnes	5,265	5,877	2,501	2,735	614	436,064	566,976	226,025	284,766	62,042
Refined	tonnes	69,119	75,532	34,183	32,670	12,870	44,026	60,084	24,108	29,894	11,752
Ferrous and alloy --											
Iron ore --											
Pellets	'000 tonnes	9,040	8,820	3,856	4,066	800	137,553	164,941	67,645	83,570	16,921
Fines	"	34,810	37,416	16,536	15,679	2,641	270,537	323,489	131,539	149,725	26,816
Lump	"	35,076	34,537	16,487	13,779	2,295	362,852	413,234	181,072	180,164	30,843
Tungsten --											
Scheelite concentrate	tonnes	2,286	3,102	1,386	1,338	511	12,114	22,450	7,190	13,466	4,944
Wolfram concentrate	"	533	525	187	431	133	2,588	3,894	1,051	3,945	1,195
Pig iron	tonnes	593,051	763,421	338,431	228,546	52,458	40,478	56,813	24,527	17,226	3,591
Steel ingots, blooms	"	1,527,951	1,549,359	714,645	490,115	66,613	159,814	172,520	74,841	58,057	7,790
Mineral sands --											
Titanium											
Rutile concentrate	'000 tonnes	339	289	146	97	5	65,646	63,429	31,953	20,522	1,008
Other (d)	"	661	1,227	516	469	60	13,434	26,720	8,246	8,275	889
Zircon concentrate	"	286	351	156	130	40	51,712	47,727	22,961	12,225	3,512
Precious --											
Gold refined	kg	7,659	8,423	4,575	4,562	289	27,587	27,737	14,741	22,765	1,422
Silver refined	"	89,982	129,003	44,840	55,275	19,143	9,664	16,133	5,153	7,053	2,554
FUEL MINERALS											
Coal, black											
Coking	'000 tonnes	30,260	34,161	14,044	17,300	3,075	1,062,546	1,271,140	511,450	574,763	125,216
Other	"				1,620	320				35,443	6,957
Crude oil (e)	'000 cu m	243	206	55	79	..	17,559	15,462	3,839	6,125	..

(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 5. (c) In addition to alumina and refined aluminium, significant quantities of bauxite are exported, but details are not available for publication. (d) Includes ilmenite concentrate, beneficiated ilmenite and leucocoxe. (e) Includes also partly refined oil, topped crudes and enriched crudes.

TABLE 5. 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	kg	kg
1974-75	60,638	186,583	242,915	5,493	53,656	1'0,298	7,274	451,550
1975-76	62,617	215,553	231,827	3,309	54,499	'95,531	5,236	544,149
1976-77	57,154	197,214	205,967	4,421	51,037	252,616	7,005	442,396
July-Oct. —								
1976-77	23,604	79,684	94,500	1,349	18,737	82,379	3,411	194,104
1977-78	23,184	81,661	70,074	1,542	17,447	90,405	2,001	179,786
October 1977 —								
Copper concentrate	3,436	193	..	..	..	..	..	1,832
Blister copper	996	..	..	..	..	..	262	116
Copper matte, slags etc.	105	278	..	..	..	..	..	629
Lead concentrates	1,335	6,408	269	..	..	..	531	27,809
Lead bullion	261	2,469	87	..	..	..	..	21
Lead slags and residues	51	161	18	2	..	..	..	515
Zinc concentrate	..	277	19,696	..	..	..	..	1,541
Zinc slags and residues	..	..	195	..	..	..	..	..
Tin concentrate	..	..	..	236	..	..	..	..
Iron ore — Pellets	..	..	..	..	492	..	..	..
.. Fines	..	..	..	..	1,976	..	..	..
.. Lump	..	..	..	..	1,771	..	..	..
Scheelite concentrate	..	..	..	..	..	7,716	..	..
Wolfram concentrate	..	..	..	..	..	575	..	..
Total October 1977	6,196	9,786	20,265	238	4,239	8,291	793	32,463

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

TABLE 6. IMPORTS OF SELECTED MINERALS AND MINERAL PRODUCTS, AUSTRALIA (a)

TABLE 6. PORTS OF SELECTED MINERALS AND MINERAL PRODUCTS (continued)											
Commodity (b)		Quantity					Value (\$'000)				
		1975-76	1976-77	July-Nov.		1977	1975-76	1976-77	July-Nov.		1977
				1976-77	1977-78				1976-77	1977-78	
METALS											
Tin, refined	tonnes	34	17	10	214	9	181	117	56	1,959	107
Nickel (pigs, anodes, etc.)	tonnes	992	1,281	779	412	6	3,761	5,392	3,092	1,900	25
Ferro-alloys	tonnes	25,348	28,356	10,394	6,827	719	11,895	16,649	5,409	3,786	566
Gold											
Unrefined bullion (c)	kg	3,051	1,885	1,095	..	..	9,187	6,359	3,365	..	..
Refined	"	13	28	..	..	..	49	108	..	..	..
FUEL MINERALS											
Crude oil (d)	'000 cu m	9,569	10,092	4,706	4,604	903	516,361	646,499	273,749	326,064	61,305
NON-METALLIC MINERALS											
Asbestos	tonnes	56,241	70,341	26,365	26,576	3,902	17,853	29,415	9,803	12,337	2,055
Diamonds — Industrial	metric carat	743,841	1,015,206	400,885	336,601	71,796	2,818	4,552	1,721	1,745	339
Gemstone	"	86,721	91,283	44,019	30,107	7,168	17,268	22,677	9,708	9,727	2,351
Phosphate rock	'000 tonnes	1,482	1,319	526	633	99	53,212	42,227	16,288	21,408	2,818
Potassium fertilisers	tonnes	110,190	195,752	62,536	82,307	24,611	7,257	15,056	3,828	4,849	1,222
Sulphur	tonnes	156,495	315,432	113,631	206,400	62,291	4,986	10,697	3,957	6,267	1,905

(a) From 1 July 1976 a new system was introduced for valuing imports for Customs purposes. Thus the figures from 1 July 1976 may not be comparable with those for previous months. (b) The Australian Import Commodity Classification for each commodity in this table is shown in Appendix B. (c) Gold content. (d) Includes also partly refined oil, topped crudes, enriched crudes and refinery feedstock.

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. (\$U.S. - tonne)	U.S.A. (USc-lb)
	1	2	3	4	5	6	7	8	9	
1974-75	1,050.5	598.3	366.6	216.5	23.95	612.8	359.1	(c)353.6	38.55	
1975-76	1,017.9	655.3	300.8	194.9	20.32	628.7	364.3	(c)795.0	37.99	
1976-77	1,239.9	823.6	475.3	323.7	27.5	694.8	390.4	783.8	37.08	
1977-78 - Highest	1,200.0	769.0	550.0	382.0	33.00	639.0	322.5	700.0	34.00	
Lowest	1,040.0	638.5	500.0	304.0	31.00	536.0	272.0	600.0	30.50	
1976-77 - October	1,098.0	784.8	400.0	283.4	25.25	651.0	389.4	795.0	38.13	
November	1,039.1	780.3	404.6	280.0	25.75	670.3	367.9	795.0	37.00	
December	1,204.8	767.3	450.0	284.5	25.75	775.2	381.9	795.0	37.00	
January	1,257.0	815.0	467.5	326.2	26.38	736.0	403.6	795.0	37.00	
February	1,317.0	833.7	518.0	378.3	28.76	736.0	411.7	795.0	37.00	
March	1,359.0	881.3	618.5	409.5	30.83	736.0	418.4	795.0	37.00	
April	1,356.0	830.7	569.7	377.3	31.00	736.0	380.8	795.0	37.00	
May	1,269.0	798.2	550.0	384.5	31.00	705.1	356.0	755.2	35.77	
June	1,155.3	762.0	550.0	330.0	31.00	639.0	315.2	700.0	34.00	
1977-78 - July	1,151.6	724.7	509.5	325.8	31.00	639.0	314.4	700.0	34.00	
August	1,078.1	679.8	500.0	316.5	31.00	639.0	298.7	700.0	34.00	
September	1,062.0	685.9	500.0	334.1	31.00	639.0	296.7	700.0	34.00	
October	1,080.0	683.2	500.0	347.3	31.03	614.7	289.1	700.0	32.00	
November	1,064.7	650.5	547.7	348.4	32.00	536.0	276.0	604.6	30.99	
December	1,090.0	679.4	550.0	369.5	32.78	536.0	289.7	600.0	30.50	

Period	Tin			Aluminium			Gold		Silver	
	Aust. (\$A - tonne)	L.M.E. (£ Stg - metric ton)		Nickel U.S.A. (d) (\$US-lb)	Aust. (\$A-tonne)	Prod. U.S.A. (USc-lb)	Premium markets (\$A/oz) Australia and Overseas	U.K. (\$US/oz)	Aust. (d) (\$A/kg)	U.K. (\$/new pence- f.oz)
	10	11	12	13	14	15	16	17	18	19
1974-75	5,715.8	3,246.7	1,022.3	1.93	671.0	38.1	121.54	167.86	104.91	187.9
1975-76	5,698.3	3,402.7	1,014.9	2.17	751.7	41.1	110.40	139.32	112.42	221.9
1976-77	8,404.2	5,263.7	1,344.6	2.38	860.3	46.6	114.79	131.30	127.57	262.9
1977-78 - Highest	12,444.0	7,340.0	1,895.0	2.20	964.0	50.0	145.80	168.20	138.3	274.3
Lowest	9,351.0	5,695.0	1,448.0	2.08	907.0	45.5	128.90	140.55	130.1	246.9
1976-77 - October	6,921.1	4,846.6	1,196.3	2.41	827.0	43.0	93.60	116.14	110.1	257.7
November	7,190.3	4,958.3	1,220.0	2.41	827.0	44.0	105.04	130.46	137.2	266.4
December	8,407.7	5,501.1	1,251.3	2.41	827.0	44.3	126.92	133.87	129.5	258.7
January	9,027.4	5,535.6	1,395.7	2.41	907.0	46.5	121.97	132.26	132.4	256.9
February	9,922.9	5,983.3	1,525.2	2.41	907.0	46.5	125.93	136.30	139.2	265.2
March	10,193.0	6,043.0	1,556.3	2.41	907.0	49.5	135.77	148.23	141.6	282.9
April	9,343.9	5,577.3	1,439.6	2.41	907.0	49.5	132.35	149.17	137.9	278.8
May	9,524.9	5,723.9	1,458.3	2.41	907.0	50.0	130.60	146.60	133.5	273.5
June	9,384.3	5,606.4	1,439.1	2.41	907.0	50.5	127.95	140.73	130.7	259.8
1977-78 - July	9,898.8	6,042.9	1,544.1	2.20	907.0	49.8	128.90	143.38	130.3	263.0
August	10,875.9	6,478.9	1,669.2	2.20	907.0	47.8	132.50	144.95	130.1	256.9
September	10,867.4	6,388.4	1,661.8	2.20	964.0	45.8	138.30	149.52	135.3	260.2
October	11,837.7	6,857.9	1,819.4	2.20	964.0	46.1	143.65	158.85	138.3	268.9
November	11,846.0	6,956.8	1,803.1	2.08	964.0	46.3	141.75	162.10	137.0	268.9
December	11,596.7	6,911.8	1,755.6	2.08	964.0	48.3	145.80	160.48	137.0	254.7

(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. (b) See paragraph 3, page 1. (c) Prior to 2 January 1976, prices quoted in £ Stg per ton. (d) Prior to July 1975, monthly prices were quoted on the first trading day of the month. From July 1975 monthly prices are prices quoted on the last trading day of the month. Annual prices are the averages of the monthly prices.

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

Period	Tin Aust. (c) (\$A-mtu)	Wolfram Europe (c) (£ \$US-mtu)	Ilmenite Europe (d) (\$A-metric ton)	Rutile Europe (d) (\$A-metric ton)	Zircon Europe (d) (\$A-metric ton)
	20	21	22	23	24
1974-75	48.58	(e)37.00-50.25	13.00-18.00	200.00-330.00	170.00-330.00
1975-76	47.89	(e)36.75-64.00	15.00-18.00	290.00-330.00	140.00-330.00
1976-77	71.93	143.50-186.50	15.00-18.00	200.00-330.00	90.00-160.00
1977-78 - Highest	106.04	178.00	18.00	210.00	100.00
Lowest	85.37	144.00	15.00	190.00	75.00
1976-77 - October	58.36	(e)84.50-86.50	15.00-18.00	290.00-330.00	140.00-160.00
November	60.89	(e)86.25-90.00	15.00-18.00	290.00-330.00	140.00-160.00
December	72.15	143.50-147.50	15.00-18.00	290.00-330.00	140.00-160.00
January	77.62	143.50-147.50	15.00-18.00	290.00-330.00	140.00-160.00
February	85.88	174.00-180.00	15.00-18.00	220.00-230.00	115.00-125.00
March	87.84	175.00-183.00	15.00-18.00	220.00-230.00	115.00-125.00
April	80.09	177.00-184.00	15.00-18.00	220.00-230.00	115.00-125.00
May	81.81	177.00-186.50	15.00-18.00	220.00-230.00	115.00-125.00
June	80.55	174.00-183.00	15.00-18.00	200.00-210.00	90.00-100.00
1977-78 - July	85.37	166.00-176.00	15.00-18.00	200.00-210.00	90.00-100.00
August	94.41	155.00-163.00	15.00-18.00	200.00-210.00	90.00-100.00
September	98.82	144.00-152.00	15.00-18.00	200.00-210.00	90.00-100.00
October	106.04	171.00-178.00	15.00-18.00	190.00-200.00	75.00-85.00
November	106.04	165.00-176.00	15.00-18.00	190.00-200.00	75.00-85.00
December	97.40	166.00-176.00	15.00-18.00	190.00-200.00	75.00-85.00

(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. (b) See paragraph 3, page 1. (c) Monthly prices are averages of daily prices throughout the month. (d) Prior to July 1975, monthly prices were the ranges quoted on the first trading day of the month. From July 1975, monthly prices are the ranges quoted in the last trading day of the month. Annual prices are a range of the lowest and highest prices derived from these monthly prices. (e) Prior to 1 December 1976 prices are quoted in £ Stg-mtu.

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 83.2% (c)	Aluminium 8.9% (c)	Copper and brass 5.7% (c)	Other metallic materials 2.2% (c)	All groups
1974-75	161.1	141.9	131.1	192.4	158.4
1975-76	200.2	158.0	137.5	207.8	193.1
1976-77	227.8	176.9	158.1	231.2	219.4
1976-77 - October	226.4	175.6	149.8	206.6	217.1
November	229.6	175.9	143.9	215.6	219.6
December	230.0	175.9	155.5	241.3	221.2
January	230.0	174.8	158.4	237.1	221.2
February	230.4	174.8	162.9	243.3	221.9
March	231.8	182.6	165.1	254.5	224.1
April	231.9	182.6	166.1	251.7	224.2
May	231.9	183.5	161.0	251.9	224.0
June	232.4	184.5	158.2	230.0	223.9
1977-78 - July	240.6	184.5	156.3	235.8	230.7
August	242.1	184.5	152.7	235.4	231.7
September	242.2	191.3	151.4	233.7	232.3
October	242.2	193.6	152.8	243.6	232.8
November	250.1	194.1	151.6	244.9	239.4
December	250.5	194.1	152.3	235.6	239.6

(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 (c)
1974-75	263	391	181
1975-76	286	359	187
1976-77	330	370	206
1976-77 -			
September	307	289	192
October	305	303	194
November	308	330	194
December	345	414	213
January	338	395	212
February	339	409	213
March	346	434	213
April	354	437	219
May	351	430	219
June	341	415	214
1977-78 -			
July	343	412	212
August	342	422	210
September	340	433	210
October	336	460	210
November	333	462	208

(a) See notes below. (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.

NOTES CONCERNING EXPORT PRICE INDEX

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 : Year 1959-60 = 100.
3. The "All groups" index includes wool, meats, dairy produce, cereals, dried and canned fruits, 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. 58, 1972, pages 240-242. The interim series was introduced in the July 1970 issue of *Export Price Index* (6405.0.)

APPENDIX A
AUSTRALIAN EXPORT COMMODITY CLASSIFICATION (A.E.C.C.) 1977-78
ITEMS INCLUDED IN TABLES 3, 4 and 5

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
	284.00.23	Copper-lead dross and speiss
Matte, slags, etc.	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
Nickel -		
Concentrate	283.21.00	Ores and concentrates of nickel
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 lumps 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 stainless 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 -		
Titanium -		
Rutile concentrate	283.93.02	In bulk
	283.93.03	In bags, drums and similar containers
Beneficiated ilmenite	283.93.07	Beneficiated ilmenite
Ilmenite concentrate	283.93.13	In bulk
	283.93.15	In bags, drums and similar containers
Leucokene	283.93.16	In bulk
	283.93.17	In bags, drums and similar containers
Zircon concentrate	283.93.19	In bulk - Premium grade
	283.93.21	In bulk - Standard grade
	283.93.22	In bags, drums and similar containers - Premium grade
	283.93.24	In bags, drums and similar containers - Standard grade
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)
	681.10.01	Mint bullion (i.e. in the form accepted in inter-bank transactions)
Silver, refined	681.10.09	Other
Coal, black		
	321.40.01	Coking coal - High quality
	321.40.05	Coking coal - Other
	321.40.07	Non-coking coal
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.) 1976-77
INCLUDED IN TABLE 6

Commodity	Statistical item	Description
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
	{ 671.50.06	Ferro-silico-manganese
	{ 671.50.08	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 other wise packed - Insoluble
	{ 274.10.07	Other

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

Reference number	Particulars of Price Bases
1.	Refined electrolytic copper, Mount Isa Mines Copper Price
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./f.o.r. 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 buyers works capital cities.
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, Prime Western, delivered.
9.	Refined tin, spot, minimum 2 tonne, ex smelter.
10.	Refined tin, L.M.E. warehouse, mid-day cash price, average of buyers' and sellers' quotes, L.M.E.
11.	Refined tin, ex-works, Penang.
12.	Refined nickel, f.o.b. Port Colbourne.
13.	Refined aluminium, 99.5% domestic, minimum 10 tonnes, c.l.f. capital cities.
14.	Refined aluminium, ingot 99.5% carload lots delivered.
15.	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.
16.	Refined gold, spot, London open market.
17.	Refined silver, minimum lots of 320 kilograms, f.o.b. or f.o.r. Port Pirie.
18.	Refined silver, spot, London.
19.	Concentrates, per mta of contained tin, 70% Sn grade, delivered Sydney.
20.	Concentrates, per mta, wolfram, c.l.f. standard quality minimum 65% WO ₃
21.	Concentrates, minimum 54% TiO ₂ bulk, f.o.b. Australia.
22.	Concentrates, 95-97% TiO ₂ , bagged, f.o.b., f.i.d. (c.l.f. up to and including August 1973)
23.	Concentrates, 66-67% ZnO ₂ , standard grade, f.o.b., f.i.d. (c.l.f. up to and including August 1973)
24.	

Currency and quantity equivalents and abbreviations used in Appendix C

Unit	Equivalent to -		
\$ Mal 1	November \$0.37	c.l.f.	cost, insurance, freight
£ Stg 1	November \$1.64	f.i.d.	free into container depot
\$ US 1	November \$0.88	f.o.b.	free on board
f.o.z	31.1035g	f.o.r.	free on rail
lb	0.45359237 kg	g.o.b.	good ordinary brand
lru	10.160469 kg	L.M.E.	London Metal Exchange
mtu	10 kg	ltu	long ton unit
picul	60.47898 kg	mtu	metric ton unit
metric ton	1 tonne		
ton	1.01605 tonne		
1 Stg new pence	d Stg. 2.4		

APPENDIX D

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

- 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.
- 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.
- The price series used are obtained monthly, by mail collection, from major Australian manufacturers of the relevant materials. Prices are in most cases collected as at the mid-point of each month.
- The prices collected are, as far as possible, those normally charged to representative manufacturers for goods delivered into their stores.
- The index comprises important metallic materials selected and combined in accordance with a weighting pattern which reflects values of materials used as reported in 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).