

STATISTICAL BULLETIN : MINERALS AND MINERAL PRODUCTS, AUSTRALIA

FEBRUARY 1970

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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 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 as follows.

Tables 1, 2 and 3. Mine production

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

Table 4. 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 super-phosphate which are collected by the Department of Primary Industry, and petroleum and products which are collected by the Department of National Development. Secondary metal is excluded from the metal production statistics except in the case of ingot steel.

Tables 5, 6, 7 and 8. 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 9 and 10. Prices

Price data are obtained from a number of sources. Australian prices are mainly derived from information collected and compiled by the Bureau of Mineral Resources. Overseas prices are derived from various authoritative journals, principally the "Metal Bulletin". For further information, see Appendix B.

Table 11. Wholesale and export price indexes

Data in this table are derived from this Bureau's compilation of price indexes. For further information, see Appendix C.

Table 12. 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 1000-04 of "Official Year Book" No. 55, 1969.

Table 13. Changes in stocks of gold

Statistics of refinery production, imports and exports of gold bullion in this table are identical with figures shown in previous tables of this bulletin 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 Census of Mining and Quarrying and various special purposes 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 7 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", 1970 (Reference No. 1.10).
6. Rounding. Any discrepancies between totals and sums of components in tables are due to rounding.

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.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 (EXCL. GOLD), AUSTRALIA

Period	Metallic minerals								
	Non-ferrous						Ferrous and alloy (a)		Precious (b)
	Copper (b)	Lead (b)	Zinc (b)	Tin (b)	Nickel concentrate (a)	Bauxite (a)	Iron ore and concentrate	Tungsten concentrates	Silver
	- tons -						- '000 tons -	tons	'000 f oz
Year -									
1967	90,361	375,779	400,527	5,586	15,753	4,176	17,036	1,650	19,842
1968	107,491	382,777	415,717	6,650	36,699	4,877	25,929	2,011	21,394
1969	r128,264	r444,121	r499,134	r8,013	r90,975	7,790	r38,476	2,125	r24,971
January to February -									
1969	19,060	57,236	67,679	(c)	5,719	(c)	(c)	(c)	3,284
1970	20,392	59,697	68,053	(c)	28,192	(c)	(c)	(c)	3,990
Month -									
1969									
January	9,728	28,062	32,471	} 1,726	3,034	} 1,800	8,034	535	r1,747
February	9,332	29,174	35,208		2,685				r1,537
March	9,597	25,771	26,989		4,236				r1,726
April	9,829	36,074	41,024	} 1,814	6,293	} 1,853	10,680	604	r2,061
May	10,934	42,011	44,747		7,138				r2,301
June	12,230	42,473	50,569		6,628				r2,306
July	r11,398	r42,098	r47,387	} r2,113	r7,512	} 2,137	9,891	486	r2,296
August	r11,793	r37,770	r42,318		r8,482				r2,057
September	r11,124	r41,241	r49,388		r8,650				r2,189
October	r11,270	r42,858	r47,225	} r2,360	r9,944	} 2,000	r9,871	500	r2,331
November	r11,453	r42,032	r44,403		r11,778				r2,237
December	r10,576	r34,557	r37,405		r14,595				r2,183
1970									
January	10,511	25,833	29,604		15,472				1,750
February	9,881	33,864	38,449		12,720				2,240

(a) Quantities shown are gross output. (b) Quantities shown are metallic contents of mine products based on chemical assay. (c) Available on a quarterly basis only.

TABLE 1. - MINE PRODUCTION OF PRINCIPAL MINERALS (EXCL. GOLD), AUSTRALIA - continued

Period	Metallic minerals - continued			Fuel minerals					
	Mineral sands concentrates (a)			Black coal			Brown coal	Petroleum (b)	
	Rutile	Ilmenite	Zircon	Under-ground	Total	Seasonally adjusted (c)		Crude oil (d)	Natural gas
	- tons -			- '000 tons -					
								'000 bls	mil cu ft
Year -									
1967	265,514	544,216	283,682	29,267	34,707	..	23,384	7,600	152
1968	288,936	551,499	297,282	32,191	40,184	..	22,971	13,877	216
1969	353,642	693,815	366,983	r35,235	r45,438	..	22,911	15,765	9,375
January to March -									
1969	82,714	171,354	84,206	7,825	9,779	..	4,964	3,406	136
1970	82,783	164,356	85,446	8,054	10,766	..	5,308	5,801	7,831
Month -									
1969									
February	27,279	57,986	27,822	2,931	3,616	r3,565	1,567	1,052	22
March	27,337	61,568	29,169	2,891	3,642	r3,522	1,841	1,195	94
April	27,295	53,062	30,352	2,289	2,988	r3,680	1,707	1,144	550
May	28,134	55,644	30,574	3,212	4,011	r3,680	2,156	1,203	551
June	29,294	57,894	32,519	3,252	4,146	r3,966	2,275	1,213	663
July	30,770	57,072	32,355	r3,655	r4,763	r3,942	2,464	1,305	1,048
August	29,820	60,383	32,644	2,694	3,549	r3,968	1,952	1,248	1,089
September	31,186	61,724	31,593	r3,279	r4,349	r3,987	2,070	1,371	1,135
October	32,076	60,642	34,152	r3,513	r4,630	r4,032	2,148	1,651	1,091
November	27,224	59,507	27,358	r3,083	r4,008	r3,936	1,553	1,659	1,347
December	35,129	56,533	31,230	r2,433	r3,215	r3,998	1,622	1,564	1,764
1970									
January	24,550	54,244	25,104	2,185	2,935	r4,122	1,597	1,431	1,776
February	28,891	49,205	28,737	3,121	4,111	r4,054	1,674	1,426	2,772
March	29,342	60,907	31,605	2,748	3,719	3,985	2,037	2,944	3,282

(a) Quantities shown are gross output. (b) Source : Department of National Development. (c) See Explanatory Notes, paragraph 5, page 4. (d) A barrel is approximately 35 imperial gallons.

TABLE 2. - MINE PRODUCTION OF GOLD (a)
(fine ounces)

Period	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
Year -								
1967	10,716	10,996	95,601	1	573,755	37,528	76,739	805,336
1968	r8,668	r11,069	r82,939	38	r515,949	r36,509	r126,610	r781,782
1969	r10,230	r8,790	71,411	r414	r440,065	r40,266	r128,018	r699,194
January to February -								
1969	1,251	845	11,126	..	74,138	6,174	17,406	110,940
1970	1,174	565	16,795	..	54,264	7,700	18,651	99,149
Month -								
1969 January	561	385	5,842	..	35,265	3,040	8,880	53,973
February	690	460	5,281	..	38,873	3,134	8,526	56,967
March	557	302	8,361	..	36,602	3,694	9,791	59,327
April	1,041	1,056	6,642	..	46,513	3,419	10,479	69,150
May	951	485	6,000	..	37,711	3,396	15,693	64,236
June	1,017	1,600	6,538	40	36,778	3,228	14,504	63,705
July	989	1,218	5,812	..	r33,951	3,061	8,626	r53,657
August	811	765	4,482	..	r34,255	3,157	8,612	r52,082
September	970	1,016	5,467	..	r37,142	3,081	9,552	r57,228
October	r1,000	r660	5,874	..	34,629	r3,785	r12,359	r58,307
November	r936	r88	5,932	..	34,105	r3,486	r11,895	r56,442
December	r707	r755	5,157	r374	34,241	r3,785	r9,101	r54,120
1970 January	412	90	7,631	..	26,347	3,800	9,670	47,950
February	762	475	9,164	..	27,917	3,900	8,981	51,199

(a) Gold content of minerals produced.

TABLE 3. - GOLD CONTENT OF MINERALS PRODUCED, AUSTRALIA (a)

(fine ounces)

Period	Gold contained in									Total
	Copper conc.	Copper ore	Copper prec.	Gold bullion (b)	Lead ore and conc.	Lead-copper conc.	Zinc conc.	Bismuth conc.	Lead-zinc conc.	
Year -										
1967	111,481	157	..	653,076	10,531	23,162	4,670	1,578	681	805,336
1968	r24,499	r136	378	r623,069	r10,038	21,557	4,347	r27,535	223	r781,782
1969	r33,626	r55	..	r554,304	r12,020	r22,928	r4,503	r21,758	..	r699,194
January to February -										
1969	13,119	..	..	88,988	1,890	3,028	635	3,280	..	110,940
1970	19,236	..	..	70,072	1,589	4,300	780	3,172	..	99,149
Month -										
1969 January	6,857	..	..	42,546	833	1,514	376	1,847	..	53,973
February	6,262	..	..	46,442	1,057	1,514	259	1,433	..	56,967
March	9,694	17	..	44,922	840	1,850	476	1,528	..	59,327
April	7,510	..	..	56,945	899	2,111	346	1,339	..	69,150
May	8,762	..	..	49,198	1,073	2,015	460	2,728	..	64,236
June	7,388	14	..	50,264	1,090	1,920	367	2,662	..	63,705
July	6,310	..	..	r42,414	1,058	1,855	360	1,660	..	r53,657
August	5,428	..	..	r41,924	908	1,855	333	1,634	..	r52,082
September	5,957	10	..	r46,406	1,113	1,688	359	1,695	..	r57,228
October	r6,985	r2	..	r45,708	r1,197	r2,071	r439	r1,905	..	r58,307
November	r6,894	..	..	r44,018	r1,089	r2,071	r334	r2,036	..	r56,442
December	r5,579	r12	..	r43,517	r863	r2,464	r394	r1,291	..	r54,120
1970 January	8,612	..	..	34,368	644	2,300	368	1,658	..	47,950
February	10,624	..	..	35,704	945	2,000	412	1,514	..	51,199

(a) As despatched from mines or associated treatment plants (including gold batteries). (b) Retorted gold, alluvial gold, gold ore, etc.

TABLE 4. - PRODUCTION OF PRINCIPAL MANUFACTURED PRODUCTS OF MINERAL ORIGIN, AUSTRALIA

Period	Metals								
	Non-ferrous								Precious
	Alumina	Refined aluminium	Blister copper (a)	Refined copper	Lead bullion (a) (b)	Refined lead	Refined zinc	Refined tin	Refined silver
'000 tons	- tons -								'000 foz
Year -									
1967	841	91,326	70,826	66,093	101,167	190,863	194,471	3,594	9,917
1968	1,289	95,810	91,536	83,795	116,638	175,232	205,482	3,692	9,426
1969	1,901	124,423	113,756	99,372	151,920	186,542	242,433	4,156	9,749
January to February -									
1969	(c)	18,302	16,331	15,084	18,248	28,922	34,569	514	1,471
1970	(c)	32,753	15,793	19,355	25,169	28,541	41,127	581	1,547
Month -									
1969 January	418	9,369	8,197	6,669	11,123	15,479	17,330	318	821
February		8,933	8,134	8,415	7,125	13,443	17,239	196	650
March		9,613	8,879	7,880	10,308	12,035	20,068	269	745
April	471	9,499	8,990	8,351	11,318	15,333	19,150	499	721
May		9,772	9,975	8,156	12,835	15,317	21,263	289	786
June		9,635	10,640	9,084	13,737	18,770	18,316	432	756
July	504	9,346	9,638	7,202	14,569	17,061	23,815	219	793
August		9,792	9,606	7,348	14,109	15,220	20,705	470	893
September		9,704	10,303	10,087	13,873	16,866	20,951	446	852
October	508	10,633	10,368	7,998	15,621	16,067	21,350	272	967
November		13,963	9,822	9,861	13,929	15,580	20,053	357	817
December		14,164	9,204	8,321	13,373	15,371	22,193	389	950
1970 January		16,145	8,191	10,398	12,783	14,668	21,975	162	845
February		16,608	7,602	8,957	12,386	13,873	19,152	419	702

(a) Metallic content. (b) Lead bullion for export. (c) Available on a quarterly basis only.

TABLE 4. - PRODUCTION OF PRINCIPAL MANUFACTURED PRODUCTS OF MINERAL ORIGIN, AUSTRALIA - continued

Period	Metals - continued										
	Precious-continued - Refined gold					Ferrous					
	Australian origin		Overseas origin			Iron ore pellets (c)	Pig iron	Steel ingots (a)		Blooms and slabs	Tinplate
	Newly won	From scrap	Newly-won	From scrap	Original			Seasonally adjusted (d)			
Quantity	Value (b)										
f oz	\$'000	- f oz -					- '000 tons -			tons	
Year -											
1967	672,171	21,138	27,276	136,389	727	..	4,977	6,167	..	5,360	271,339
1968	639,327	22,357	13,460	126,178	349	2,952	5,484	6,399	..	5,588	233,651
1969	586,396	21,338	r17,810	116,957	731	5,778	6,010	6,906	..	5,951	276,631
January to February -											
1969	88,535	3,765	2,089	20,954	20	942	959	1,095	..	929	44,480
1970	73,328	2,304	2,579	18,088	..	891	967	1,057	..	911	47,895
Month -											
1969											
January	42,198	1,836	999	12,061	20	479	510	579	r571	487	22,602
February	46,337	1,929	1,090	8,893	..	463	449	516	r583	442	21,878
March	45,578	1,698	1,222	8,796	..	455	531	609	r615	517	22,862
April	47,866	1,775	1,148	10,615	294	507	487	572	r611	490	21,652
May	46,734	1,892	1,435	12,398	31	467	494	548	r532	494	22,189
June	65,542	2,377	1,347	7,383	46	388	497	562	r572	475	21,187
July	48,568	1,845	2,162	8,891	39	531	489	588	r573	530	22,295
August	42,946	1,434	2,431	8,683	229	516	508	592	r575	530	23,212
September	47,176	1,616	1,050	9,656	..	478	493	550	531	440	23,123
October	41,167	1,409	r2,999	8,935	..	501	515	591	r577	513	24,133
November	69,251	2,179	1,201	11,201	72	537	513	592	603	515	25,210
December	43,033	1,348	726	9,445	..	458	525	606	r576	518	26,288
1970											
January	37,370	1,169	1,14R	9,593	..	499	516	569	r562	487	24,509
February	35,958	1,135	1,431	8,495	..	392	451	488	553	424	23,386

(a) Includes recovery from scrap. (b) 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. (c) Gross wet weight. (d) See Explanatory Notes, paragraph 5, page 4.

TABLE 4. - PRODUCTION OF PRINCIPAL MANUFACTURED PRODUCTS OF MINERAL ORIGIN, AUSTRALIA - continued

Period	Fuels						Building materials and chemicals					
	Petroleum products			Coal products			Building materials			Chemicals		
	Motor spirit	Automotive distillate	Furnace fuel	Industrial diesel fuel	Metal-lurgical coke	Brown coal briquettes	Portland cement	Asbestos cement sheets-non-acoustic	Sulphuric acid	Super-phosphate		
mil gal						Original	Seasonally adjusted (a)	Original	Seasonally adjusted (a)	(b)		
Year -												
1967	1,836	2,206	5,937	949	3,637	1,844	3,769	..	33,289	1,993	..	4,566
1968	1,960	2,473	6,517	996	3,891	1,552	3,866	..	38,217	1,860	..	4,174
1969	2,053	2,717	5,671	1,070	4,381	1,464	4,240	..	39,935	1,837	..	3,787
Jan. to Feb. -												
1969	327	411	912	135	665	149	573	..	4,301	324	..	684
1970	328	435	986	146	779	185	654	..	5,405	319	..	701
Month -												
1969 January	165	206	503	66	346	70	253	r 337	1,400	157	r 151	310
February	162	205	409	69	319	79	320	r 337	3,401	167	r 167	374
March	174	245	500	85	350	126	360	r 347	3,584	178	r 165	r 381
April	177	218	445	77	334	133	316	r 320	2,880	168	r 152	368
May	165	228	422	98	349	142	365	r 337	3,695	148	r 141	322
June	170	217	418	89	338	155	335	r 342	3,258	124	r 139	238
July	173	233	476	105	356	171	385	r 362	3,794	105	r 119	r 201
August	179	235	472	113	393	120	401	r 380	3,451	137	r 148	276
September	160	198	450	79	394	139	386	r 366	3,562	171	r 162	325
October	171	228	502	89	403	144	397	r 362	3,661	160	r 156	317
November	162	216	527	83	387	87	393	r 379	4,093	150	r 166	310
December	195	288	547	76	411	98	329	r 371	3,155	173	r 167	365
1970 January	169	223	495	75	410	83	299	r 400	1,764	171	r 164	346
February	159	212	491	71	369	102	355	374	3,641	148	r 147	355

(a) See Explanatory Notes, paragraph 5, page 4. (b) Includes double and triple superphosphate and ammonium phosphate, expressed in terms of single superphosphate, i.e. 22% P_2O_5 equivalent.

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

Commodity (a)	Quantity					Value (\$'000)					
	1968	1969	Jan. - Feb.		Feb. 1970	1968	1969	Jan. - Feb.		Feb. 1970	
			1969	1970				1969	1970		
METALLIC MINERALS AND METALS (b)											
Non-ferrous -											
Aluminium -											
Refined (c)	tons	5,577	19,930	1,187	10,761	5,840	2,745	9,405	594	4,893	2,714
Copper -											
Conc.	tons	36,494	49,891	4,910	4,176	159	8,657	10,180	1,324	1,428	116
Blister	"	7,063	8,326	1,183	1,115	702	9,459	12,594	1,504	1,922	1,221
Refined	"	16,518	32,205	5,272	10,120	7,596	16,810	40,573	5,720	14,808	10,906
Lead -											
Conc.	tons	121,122	101,191	9,075	16,820	4,606	23,636	20,025	1,706	3,797	1,279
Bullion	"	107,325	135,606	14,136	29,643	14,857	34,457	45,303	4,376	11,765	6,006
Refined	"	137,542	131,550	23,398	31,954	10,260	28,419	31,965	5,025	9,366	2,833
Zinc -											
Conc.	tons	312,643	363,889	72,045	80,032	38,589	21,164	25,408	4,830	5,507	2,588
Refined	"	97,177	138,728	23,660	28,983	17,233	22,597	33,690	5,495	7,465	4,441
Tin -											
Conc.	tons	5,366	5,855	944	2,067	886	7,574	8,618	1,386	3,141	1,460
Manganese ore	tons	555,743	649,292	83,242	84,212	51,156	10,827	11,748	1,663	1,551	952
Ferrous and alloy -											
Iron ore -											
Pellets	'000 tons	16,134	5,046	637	1,060	691	139,816	58,259	6,958	12,525	8,124
Fines	"		4,239	318	1,046	474		31,782	2,060	6,779	3,021
Lump	"		16,466	2,026	3,868	2,012		139,863	17,716	32,121	16,686

(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 6. (c) In addition to refined aluminium, significant quantities of alumina and bauxite are exported, but details are not available for publication.

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

Commodity (a)	Quantity					Value (\$'000)					
	1968	1969	Jan. - Feb.		Feb. 1970	1968	1969	Jan. - Feb.		Feb. 1970	
			1969	1970				1969	1970		
METALLIC MINERALS AND METALS (b) - continued											
Ferrous and alloy - contd -											
Pig iron tons	241,869	379,953	85,144	27,797	2,779	8,925	16,789	3,159	1,477	148	
Steel ingots, blooms "	350,669	535,885	76,427	58,159	18,499	18,773	32,741	2,351	4,166	1,355	
Tungsten -											
Scheelite conc. tons	1,434	1,600	150	165	110	3,532	4,361	406	515	350	
Wolfram conc. "	497	799	109	129	60	1,294	2,412	324	466	262	
Mineral sands -											
Ilmenite conc. (c) tons	395,911	606,031	102,762	112,832	68,519	4,090	6,208	1,041	1,252	838	
Rutile conc. "	284,995	272,844	27,398	58,865	26,562	21,865	23,240	2,328	5,082	2,513	
Zircon conc. "	266,121	309,358	36,165	56,754	35,114	11,013	12,356	1,414	2,289	1,411	
Precious -											
Gold refined f oz	385,976	597,089	80,112	16,535	355	13,126	21,139	2,750	523	11	
Silver refined '000 f oz	15,812	7,837	1,729	864	187	31,705	13,055	3,077	1,462	305	
FUEL MINERALS											
Black coal '000 tons	12,096	15,789	1,820	2,623	1,152	103,745	142,075	15,285	25,034	10,751	

(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 6. (c) Includes leucoxene concentrate.

TABLE 6. - PRINCIPAL METALLIC CONTENTS OF SELECTED ORES AND CONCENTRATES EXPORTED, AUSTRALIA

Particulars	Estimated metallic contents								
	Copper	Lead	Zinc	Tin	Tungstic oxide	Manganese	Iron	Gold	Silver
	- tons -						'000 tons	f oz	'000 f oz
Year - 1967	21,041	193,609	165,640	1,662	1,135	150,214	5,839	131,749	10,106
1968	21,028	199,397	177,319	3,135	1,322	251,035	10,475	115,125	11,272
1969	20,359	215,449	199,437	3,525	1,650	304,105	17,117	94,004	13,159
January to February -									
1969	2,866	21,284	38,680	575	180	39,541	1,944	15,664	1,449
1970	3,782	41,802	43,225	1,049	205	38,331	(a) 3,863	19,431	2,993
February - 1970 -									
Copper concentrate	86	..	..	..	..	..	..	..	..
Blister copper	698	..	..	..	..	..	..	5,153	4
Copper matte, slags, etc.	1,027	1,103	..	..	..	..	..	22	86
Lead concentrate	427	2,010	679	..	..	..	..	5,382	266
Lead bullion	..	14,752	..	..	..	..	..	..	1,184
Lead slags and residues	..	45	..	24	..	..	..	..	..
Zinc concentrate	..	127	20,067	..	..	..	..	..	5
Zinc slags and residues	..	..	146	..	..	..	..	..	..
Tin concentrate	..	..	..	480	..	..	..	..	..
Scheelite concentrate	..	..	..	..	75	..	..	..	..
Wolfram concentrate	..	..	..	..	43	..	..	..	..
Manganese ore	..	..	..	..	..	23,072	..	..	..
Iron ore	..	..	..	..	..	..	2,058	..	..
Total February 1970	2,238	18,037	20,892	504	118	23,072	2,058	10,557	1,545

(a) Includes a correction to the iron content of iron ore exported during January 1970 from 2,805,000 tons (shown in January 1970 issue of this bulletin) to 1,805,000 tons.

TABLE 7. - IMPORTS OF SELECTED MINERALS AND MINERAL PRODUCTS, AUSTRALIA

Commodity (a)	Quantity					Value (\$'000)					
	1968	1969	Jan. - Feb.		Feb. 1970	1968	1969	Jan. - Feb.		Feb. 1970	
			1969	1970				1969	1970		
METALS											
Gold -											
Unrefined bullion (b)	f oz	122,758	117,723	18,652	20,523	11,540	4,133	4,072	687	649	361
Refined	"	4,869	63,569	415	181	57	165	2,434	15	8	3
Tin, refined	tons	159	104	17	11	..	448	323	50	38	..
Nickel (pigs, anodes, etc.)	tons	1,914	1,559	365	280	102	3,848	3,752	655	1,539	710
Ferro-alloys	tons	23,418	23,160	4,480	8,718	3,030	6,402	5,381	865	3,886	800
FUEL MINERALS											
Petroleum crude	mil gals	5,159	5,229	933	971	486	212,992	212,850	39,086	37,904	19,129
NON-METALLIC MINERALS											
Asbestos	short tons	66,741	59,074	8,984	14,119	4,492	8,318	7,373	1,101	1,967	718
Phosphate rock	'000 tons	3,431	2,794	541	493	286	34,140	38,295	5,190	4,031	2,118
Sulphur	tons	548,563	383,890	30,388	90,210	50,685	21,632	12,684	1,175	1,865	1,084
Potassium fertilisers	tons	135,880	120,868	13,986	18,863	11,027	3,571	3,080	387	590	287
Industrial diamonds	carats	669,931	818,211	82,414	158,041	91,790	2,725	3,021	347	671	381

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

(b) Gold content.

TABLE 8. - EXPORTS AND IMPORTS OF GOLD, AUSTRALIA

(fine ounces)

	1968	1969	Jan-Feb.		Feb. 1970
			1969	1970	
EXPORTS (a)					
Gold in ores, concentrates, blister copper, etc.-					
Country of consignment - Japan	86,050	71,193	12,036	11,383	5,558
U.S.A.	22,301	22,499	3,628	8,026	4,977
Other	6,774	312	..	22	22
<u>Total gold in ores, concentrates, etc.</u>	115,125	94,004	15,664	19,431	10,557
Refined forms -					
Country of consignment - Hong Kong	358,279	444,806	79,876	15,995	..
New Zealand	4,151	3,949	184	355	355
Singapore .. .. .	..	147,995	..	..	..
Fiji	305	189	52	35	..
Other	23,241	150	..	150	..
<u>Total refined forms</u>	385,976	597,089	80,112	16,535	355
<u>TOTAL EXPORTS</u>	501,101	691,093	95,776	35,966	10,912
State of final shipment - New South Wales	384,735	449,349	79,936	16,345	200
Victoria	1,241	915	176	190	155
Queensland	62,785	56,316	8,908	8,139	5,153
South Australia	23,067	14,442	3,128	2,861	22
Western Australia	374	147,225	3,628	..	..
Tasmania	28,899	22,816	..	8,431	5,382
IMPORTS (b)					
Gold in unrefined bullion -					
Country of origin - Fiji	102,601	94,457	15,758	17,386	9,807
Papua and New Guinea	20,157	23,260	2,894	3,137	1,733
Other .. .. .	..	6	..	..	..
<u>Total gold in unrefined bullion</u>	122,758	117,723	18,652	20,523	11,540
Refined forms	4,869	63,569	415	181	57
<u>TOTAL IMPORTS</u>	127,627	181,292	19,067	20,704	11,597
Importing State - New South Wales	123,057	115,930	18,732	20,371	11,425
Western Australia	4,570	65,362	335	333	172

(a) Excludes specie and fabricated gold. (b) Excludes specie, fabricated gold and gold in minor minerals.

TABLE 9. - AVERAGE DAILY PRICES OF SELECTED METALS, AUSTRALIAN AND OVERSEAS MARKETS (a)

Period	Copper		Lead			Zinc			
	Aust. (\$A-ton)	L.M.E. (£Stg- metric ton)	Aust. (\$A-ton)	L.M.E. (£Stg- metric ton)	U.S.A. (US c-lb)	Aust. (\$A-ton)	L.M.E. (£Stg- metric ton)	Prod. (£Stg- ton)	U.S.A. (US c-lb)
	1	2	3	4	5	6	7	8	9
Year -									
1967	1,043.0	404.0	217.5	83.8	14.00	260.7	100.5	101.8	13.86
1968	1,117.2	525.3	218.6	101.8	13.86	262.0	111.2	114.3	13.50
1969	1,346.5	(b)620.3	259.2	(b)122.6	14.92	277.8	(b)121.2	121.5	14.66
Highest 1970	1,590.4	710.5	290.0	144.5	16.50	295.0	127.9	128.0	15.50
Lowest 1970	1,500.8	656.8	290.0	130.3	16.50	295.0	122.3	128.0	15.50
Month -									
1969 January	1,135.2	(b)531.2	230.0	(b)107.5	13.44	264.0	(b)114.0	114.3	13.82
February	1,187.2	534.6	230.0	109.4	14.00	264.0	113.2	114.3	14.00
March	1,187.2	540.9	238.6	110.5	14.00	264.0	114.7	114.3	14.00
April	1,233.1	587.3	250.0	113.5	14.40	264.0	115.4	120.0	14.25
May	1,290.2	588.1	250.0	117.5	14.50	274.8	118.0	120.0	14.50
June	1,354.5	631.5	250.0	120.8	14.90	278.0	119.1	121.0	14.50
July	1,351.8	615.0	271.6	131.6	15.46	278.0	120.1	121.0	14.50
August	1,438.1	679.7	275.0	133.7	15.50	278.0	124.3	121.0	14.50
September	1,500.8	668.1	275.0	128.0	15.50	283.4	126.7	127.4	15.38
October	1,433.6	657.8	275.0	124.3	15.50	295.0	126.4	130.0	15.50
November	1,476.2	690.3	275.0	133.5	15.60	295.0	130.9	130.0	15.50
December	1,563.7	(b)719.1	290.0	(b)141.3	16.23	295.0	(b)131.2	130.0	15.50
1970 January	1,550.1	677.2	290.0	135.1	16.50	295.0	125.9	128.0	15.50
February	1,512.0	690.1	290.0	139.2	16.50	295.0	124.0	128.0	15.50

(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 B. (b) £Stg per ton (2,240 lb) prior to January 1970.

TABLE 9. - AVERAGE DAILY PRICES OF SELECTED METALS, AUSTRALIAN AND OVERSEAS MARKETS (a) - continued

Period	Aluminium		Tin			Nickel U.K. (£Stg-ton)	Gold		U.K. (\$US-f oz)	Silver, U.K. (dStg-f oz)
	Aust. (\$A-ton)	U.S.A. (US c-lb)	Aust. (\$A-ton)	L.M.E. (£Stg- metric ton)	Straits (\$Mal- pical)		Premium markets (\$A-f oz)			
							Australia	Overseas		
Year -	10	11	12	13	14	15	16	17	18	19
1967	520.0	25.0	3,113.7	1,229.9	600.1	737	(b)	31.51	(c)12.84	142.0
1968	529.8	25.5	2,955.3	1,323.7	565.5	902	35.61	34.43	(d)	219.5
1969	538.0	27.2	3,271.3	(e)1,452.0	626.1	1,025	36.81	36.01	41.08	180.8
Highest 1970	538.0	28.0	3,663.0	1,624.0	707.1	1,220	31.45	(f)	35.18	192.0
Lowest 1970	538.0	28.0	3,421.0	1,529.5	655.0	1,220	31.45	(f)	34.75	180.0
Month -										
1969 January	538.0	26.5	3,046.9	(e)1,366.7	581.7	986	37.78	37.67	42.30	201.0
February	538.0	27.0	3,063.3	1,373.7	585.4	986	38.04	37.99	42.60	187.0
March	538.0	27.0	3,111.7	1,372.9	595.5	986	38.64	38.66	43.16	185.0
April	538.0	27.0	3,160.7	1,398.8	604.1	986	38.67	(f)	43.26	180.5
May	538.0	27.0	3,205.6	1,420.3	612.9	986	39.06	(f)	43.46	178.6
June	538.0	27.0	3,237.0	1,430.7	617.0	986	37.24	(f)	41.44	166.4
July	538.0	27.0	3,271.7	1,456.1	625.7	986	37.35	(f)	41.76	163.8
August	538.0	27.0	3,365.8	1,469.2	643.4	986	36.82	(f)	41.10	166.9
September	538.0	27.0	3,337.2	1,468.7	636.6	986	36.75	(f)	40.88	179.9
October	538.0	27.7	3,346.6	1,496.5	639.0	986	36.40	(f)	40.46	176.8
November	538.0	28.0	3,499.2	1,542.2	672.5	1,220	33.43	34.08	37.41	192.9
December	538.0	28.0	3,610.0	(e)1,616.3	699.2	1,220	31.53	31.63	35.17	180.5
1970 January	538.0	28.0	3,600.0	1,601.3	670.4	1,220	31.45	(f)	34.94	185.9
February	538.0	28.0	3,497.0	1,569.6	670.2	1,220	(g)31.45	(f)	34.99	188.8

(a) See footnote (a) on previous page. (b) Prior to May 1968 there was no Australian premium market. (c) Prior to 1 April 1968 quoted in £Stg per fine ounce. (d) Not available owing to break in continuity of the series; since 1 April 1968 London Gold Market transactions have been in non-monetary gold only. (e) £Stg per ton (2,240 lb) prior to January 1970. (f) No premium gold sales reported. (g) The quantity sold was 7,252 fine ounces valued at \$288,087.

TABLE 10.-PRICES OF SELECTED ORES AND CONCENTRATES, AUSTRALIAN AND OVERSEAS MARKETS (a)

Period	Tin	Wolfram,	Rutile (c)		Ilmenite (c)		Zircon (c)	
	Aust. (b) (\$A - 1tu)	U.K. (c) (£Stg - 1tu)	Aust. (\$A - ton)	U.K. (£Stg - ton)	Aust. (\$A - ton)	U.K. (£Stg - ton)	Aust. (\$A - ton)	U.K. (£Stg - ton)
	20	21	22	23	24	25	26	27
Year -								
1967	26.80	15.75-20.88	92-96	43.00-49.25	8-10	7.00-7.25	46-51	25.00-30.00
1968	25.09	14.75-22.00	88-92	48.00-50.00	9-10	7.00-9.50	46-50	26.75-30.00
1969	28.92	20.98-21.76	88-92	62.58-65.25	9-10	7.50-9.50	46-50	26.42-27.69
Highest 1970	31.34	38.00	92	79.00	10	9.50	50	26.50
Lowest 1970	30.08	30.00	88	76.00	9	7.50	46	25.25
Month -								
1969 January	25.86	21.75-22.50	88-92	48.50-50.50	9-10	7.50-9.50	46-50	26.75-28.25
February	25.95	20.00-21.25	88-92	49.50-51.50	9-10	7.50-9.50	46-50	26.75-28.25
March	26.48	19.88-20.62	88-92	52.00-53.00	9-10	7.50-9.50	46-50	26.75-28.25
April	26.60	19.50-20.25	88-92	52.00-53.00	9-10	7.50-9.50	46-50	26.75-28.25
May	27.60	18.37-19.25	88-92	59.00-63.00	9-10	7.50-9.50	46-50	26.25-27.75
June	27.91	21.00-21.75	88-92	61.00-66.00	9-10	7.50-9.50	46-50	26.25-27.75
July	27.80	21.00-22.00	88-92	66.00-69.00	9-10	7.50-9.50	46-50	26.25-27.75
August	29.01	21.50-22.00	88-92	69.00-72.00	9-10	7.50-9.50	46-50	26.25-27.75
September	28.63	21.50-22.00	88-92	69.00-72.00	9-10	7.50-9.50	46-50	26.25-27.75
October	39.05	21.50-22.00	88-92	73.00-75.00	9-10	7.50-9.50	46-50	26.25-27.75
November	31.10	21.50-22.00	88-92	76.00-79.00	9-10	7.50-9.50	46-50	25.25-26.50
December	31.10	24.25-25.50	88-92	76.00-79.00	9-10	7.50-9.50	46-50	25.25-26.25
1970 January	31.34	30.00-32.50	88-92	76.00-79.00	9-10	7.50-9.50	46-50	25.25-26.50
February	30.08	36.50-38.00	88-92	76.00-79.00	9-10	7.50-9.50	46-50	25.25-26.50

(a) The numerals shown at the head of each column are reference numbers which relate to the detailed price specifications set out in Appendix B. (b) Monthly prices are average prices on the first trading day of the month. Annual prices are averages of monthly prices. (c) 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.

TABLE 11. - WHOLESALE AND EXPORT PRICE INDEXES, AUSTRALIA (a)

Period	Wholesale Price (Basic Materials and Foodstuffs) Index (Base : Average of three years ended June 1939=100)			Export Price Index (Base : Year 1959-60=100)		
	Metals and coal	Metals	Total basic materials	Metals and coal	Gold	All groups
Year -						
1967	396	495	360	116	101	102
1968	398	498	364	121	109	101
1969	423	525	377	133	118	102
Month -						
1969 January	408	510	369	121	116	102
February	411	513	372	123	121	102
March	411	515	373	123	122	101
April	416	517	377	127	124	102
May	420	521	378	128	125	103
June	423	524	379	130	121	103
July	429	529	381	134	119	102
August	429	529	379	137	118	103
September	431	533	379	138	118	103
October	432	537	379	138	117	102
November	434	535	379	144	112	100
December	437	540	380	147	103	99
1970 January	447	561	381	150	102	100
February	446	560	380	152	102	100

(a) See Appendix C for details of the methods of calculating these indexes.

TABLE 12. - COMMONWEALTH GOVERNMENT PAYMENTS TO THE MINERAL INDUSTRY AND TO THE
 MANUFACTURING INDUSTRY FOR PRODUCTS OF MINERAL ORIGIN, AUSTRALIA (a)

(£'000)

Period	Petroleum exploration (b)	Gold mining (c)	Sulphuric acid production (d)	Phosphate fertiliser production (e)
Year				
1967	10,327	3,859	1,382	25,544
1968	13,805	2,817	1,279	24,907
1969	14,915	1,080	938	35,491
January to February -				
1969	2,433	242	174	5,486
1970	976	505	65	8,139
Month -				
1969 January	1,016	..	74	2,079
February	1,416	242	100	3,408
March	1,225	15	85	5,723
April	976	247	..	5,428
May	2,561	114	161	5,788
June	344	239	73	2,809
July	1,007	8	87	1,081
August	2,649	9	90	1,020
September	1,452	3	..	1,313
October	520	3	50	2,061
November	1,251	87	..	2,092
December	498	111	208	2,689
1970 January	309	394	..	2,667
February	667	111	65	5,472

- (a) In addition the Pyrites Bounty Act 1960-1965 is still operating but there have been no payments since February 1967.
 (b) Petroleum Search Subsidy Act 1959-1969. (c) Gold-Mining Industry Assistance Act 1954-1968.
 (d) Sulphuric Acid Bounty Act 1954-1969. (e) Phosphate Fertilizers Bounty Act 1963-1969.

TABLE 11. - CHANGES IN STOCKS OF GOLD BULLION HELD IN AUSTRALIA

Period	Gold bullion						Change in stocks held in Australia (c)	Gold specie - net surplus of imports
	Supplies			Disposals				
	Refinery production (a)	Imports (b)	Total	Exports	Net industrial consumption	Total		
				- f oz -				\$A
Year -								
1967	700,174	133,632	833,806	537,922	125,658	663,580	+170,226	3,270
1968	653,136	127,627	780,763	385,976	177,072	563,048	+217,715	44,286
1969	r604,937	181,292	r786,229	597,089	435,482	1,032,571	r-246,342	29,558
January to February -								
1969	90,644	19,067	109,711	80,112	26,766	106,878	+ 2,833	1,690
1970	75,907	20,704	96,611	16,535	55,553	72,088	+ 24,523	6,492
Month -								
1969 January	43,217	10,162	53,379	79,906	16,369	96,275	- 42,896	865
February	47,427	8,905	56,332	206	10,397	10,603	+ 45,729	825
March	46,800	9,323	56,123	29,332	37,717	67,049	- 10,926	9,536
April	49,308	5,721	55,029	45,210	37,789	82,999	- 27,970	1,277
May	48,200	16,418	64,618	34,548	45,529	80,077	- 15,459	1,457
June	66,935	5,109	72,044	49,093	40,590	89,683	- 17,639	2,237
July	50,769	15,348	66,117	110,183	42,742	152,925	- 86,808	1,185
August	45,606	67,993	113,599	79,823	65,721	145,544	- 31,945	2,074
September	48,226	11,108	59,334	73,434	23,942	97,376	- 38,042	3,345
October	r44,166	10,203	r54,369	58,204	35,233	93,437	r- 39,068	2,017
November	70,524	9,433	79,957	20,909	42,379	63,288	+ 16,669	3,089
December	43,759	11,569	55,328	16,241	37,074	53,315	+ 2,013	1,651
1970 January	38,518	9,107	47,625	16,180	27,157	43,337	+ 4,288	1,981
February	37,389	11,597	48,986	355	28,396	28,751	+ 20,235	4,511

(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
ACTING COMMONWEALTH STATISTICIAN

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA, A.C.T. 2600

11 AUGUST 1970

NOTE. Inquiries concerning these statistics may be made in Canberra by telephoning 490211 extension 391 or, in each State capital, by telephoning the office of the Bureau of Census and Statistics.

APPENDIX AAUSTRALIAN EXPORT COMMODITY CLASSIFICATION (A.E.C.C.) 1969-70 ITEMS INCLUDED IN TABLE 5

<u>Commodity</u>	<u>Statistical item</u>	<u>Description</u>
Non-ferrous -		
Aluminium -		
Refined	684.10.00	Unworked aluminium and aluminium alloys
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
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.
Zinc -		
Concentrate	283.50.00	Ores and concentrates of zinc
Refined	686.10.00	Unworked zinc and zinc alloys
Tin -		
Concentrate	283.60.00	Ores and concentrates of tin
Manganese ore	283.70.00	Ores and concentrates of manganese
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)
		281.30.00
Pig iron	(671.10.00	Spiegeleisen
	(671.20.00	Pig iron and cast iron
	(672.40.01	Ingots, 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)
Steel ingots, blooms	(672.54.00	Blooms, billets, slabs, sheet bars and roughly forged pieces of high carbon or alloy steel
Tungsten -		
Scheelite conc.	283.92.09	Scheelite
Wolfram conc.	283.92.01	Wolfram
Mineral sands -		
Ilmenite conc.	283.93.12	In bulk
	283.93.14	In bags, drums and similar containers
Leucorene conc.	283.93.16	In bulk
	283.93.17	In bags, drums and similar containers
Rutile conc.	283.93.02	In bulk
	283.93.03	In bags, drums and similar containers
Zircon conc.	283.93.22	In bulk
	283.93.23	In bags, drums and similar containers

APPENDIX A - continued

<u>Commodity</u>	<u>Statistical item</u>	<u>Description</u>
Precious -		
Gold -		
Refined	{ 991.00.03	Mint bullion (i.e. in the form accepted in inter-bank transactions)
In unrefined bullion	{ 991.00.04	Refined bullion (except mint bullion)
	991.00.02	Unrefined bullion (gold content)
Silver -	{ 681.10.01	Mint bullion (i.e. in the form accepted in inter-bank transactions)
Refined	{ 681.10.09	Other
Black coal	321.40.00	Coal (anthracite, bituminous and sub-bituminous)

AUSTRALIAN IMPORT COMMODITY CLASSIFICATION (A.I.C.C.) ITEMS 1969-70 INCLUDED IN TABLE 7

<u>Commodity</u>	<u>Statistical item</u>	<u>Description</u>
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)
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
	{ 671.40.09	Other
	{ 671.50.02	Ferro-chromium
Ferro alloys	{ 671.50.03	Ferro-molybdenum
	{ 671.50.04	Ferro-nickel
	{ 671.50.05	Ferro-silicon
	{ 671.50.09	Other
	{ 331.01.00	Crude petroleum
Petroleum -	{ 331.02.01	Topped crudes
Crude	{ 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
Phosphate rock	271.30.00	Natural phosphates, whether or not ground
Sulphur	{ 274.10.01	In bulk
	{ 274.10.09	Bagged or otherwise packed
Potassium fertilisers	{ 561.30.01	Potassium chloride
	{ 561.30.02	Potassium sulphate
Industrial diamonds	{ 275.10.00	Industrial diamonds
	{ 275.21.01	Diamond dust and powder

APPENDIX BPRICE BASES (TABLES 9 AND 10)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 (22.4 lb)

Currency equivalents

\$A1	is equivalent to \$US 1.12
£Stg1	is equivalent to \$A 2.14; prior to 18 November 1967 \$A 2.50
\$A1	is equivalent to \$Mal 3.4

Reference
numberParticulars

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. Prior to April 1968 basis was g.o.b. grade, f.o.r. Cockle Creek.
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' base price.
9. Zinc, Prime Western, f.o.b. East St Louis.
10. Refined aluminium, 99.5% domestic, 1-20K ingots, c.i.f. capital cities.
11. Refined aluminium, min. 99.5% domestic, delivered.
12. Refined tin, domestic, 5 ton lots, ex-works or delivered buyers' premises.
13. *Refined tin, L.M.E. warehouse, mid-day cash price, average of buyers' and sellers' quotes, L.M.E.

* A metric ton is equivalent to 2,204.6 lb.

APPENDIX B - continuedParticularsReference
number

14. Refined tin, ex-works, Penang. (A picul equals 133-1/3 lb.)
15. Refined nickel, delivered.
16. *Australian gold sold on Australian premium markets. The Reserve Bank official price is \$31.25 per fine ounce.
17. Australian gold sold on overseas premium markets by Gold Producers Association. Prices relate to the month in which gold sales contracts are negotiated with exporters and do not necessarily relate to the month in which the gold is actually delivered and/or exported.
18. Refined gold, spot, London open market.
19. Refined silver, spot, London.
20. Concentrates, per ton of contained tin, 70% Sn grade, delivered Sydney.
21. Concentrates, per ton of WO_3 content, 65% WO_3 grade, standard quality, c.i.f. Europe.
22. +Concentrates, 95-97% TiO_2 , f.o.b./f.o.r. nominal
23. Concentrates, 95-97% TiO_2 , Australian origin, c.i.f. Europe.
24. +Concentrates, 52-54% TiO_2 , f.o.b. Bunbury, nominal.
25. Concentrates, 52-54% TiO_2 , Malaysian origin, c.i.f. Europe.
26. +Concentrates, standard grade, minimum 65.2% ZrO_2 , f.o.b./f.o.r. nominal.
27. Concentrates, 66-67% ZrO_2 , c.i.f. Europe.

* Prices quoted relate to month in which sales contract was negotiated.

+ These ore and concentrate prices 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.

APPENDIX CPRICE INDEXES (TABLE 11)Wholesale Price Index

1. The base of each index is -
Average of three years ended June 1939 = 100.
2. The metals and coal group is composed of the following commodities -
Aluminium, iron and steel, briquettes, copper wirebars, coal, soft pig lead, tin ingots and zinc ingots.
3. The metals group consists of the metals listed in para. 2 (coal and briquettes are excluded).
4. The total basic materials group includes metals and coal, oils, fats and waxes, textiles, chemicals, rubber and hides, and building materials.
5. The construction of the index is shown and the quantity multipliers (weights) included are listed in Labour Report No. 52, 1965 and 1966, Chapter II, Wholesale Prices and Price Indexes.

Export Price Index

1. The base of each index is -
Year 1959-60 = 100.
2. The metals and coal group is composed of the following commodities -
Coal, iron and steel, copper, zinc, lead, silver.
3. The all groups index includes wool, meats, dairy produce, cereals, dried and canned fruit, sugar, hides and tallow, metals and coal, and gold.
4. The construction of the index is shown and commodities included are listed with their percentage contribution to the all groups index in Official Year Book, No. 55, 1969, page 258.