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MINING AND QUARRYING

NO. 5 - 1956

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by

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PREFACE

This bulletin is the fifth annual statistical bulletin on mining and quarrying operations in Australia. The series was initiated in 1952 to supplement statistics already being published by this Bureau on production, overseas trade and consumption of minerals and metals.

Statistics of the Australian mining and quarrying industry were collected on a substantially uniform basis for the first time in 1952 by State Mines Departments or State Statisticians and by the Northern Territory Administration, Mines Branch, in the Northern Territory. In 1953 this collection was extended to cover the Australian Capital Territory. Prior to 1952, industrial censuses of mining and quarrying establishments covering employment, salaries and wages paid, fixed assets, value of output, and cost of materials used, were taken in some States, but on widely varying bases.

Section I - Scope of Statistics and Definitions of Terms Used, sets out in some detail the bases on which the statistics have been collected and compiled from 1952 onwards.

Estimates of the Value of Output of Mines and Quarries during 1957, are shown in Table No. 3. These estimates are preliminary, and are subject to revision.

Graphs showing the value of output of the main mining industries in 1956 and a comparison of the major mining and quarrying groups for the years 1952 to 1956, are shown inside the back cover.

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I. SCOPE OF STATISTICS AND DEFINITIONS OF TERMS USED

(i) DEFINITION AND CLASSIFICATION OF THE MINING AND QUARRYING INDUSTRY.

For the purpose of the statistics included in this Bulletin, the "Mining and Quarrying Industry" includes all mining and quarrying and the recovery of minerals from ore dumps, tailings, etc. Ore dressing and elementary smelting of metallic minerals (e.g., in the case of gold), when carried out at or near the mine are included. However, establishments primarily engaged in smelting and/or refining (including the smelting and refining sections of the large plants operated at Mt. Morgan and Mt. Isa in Queensland and at Mt. Lyell in Tasmania) are omitted and classified to the Manufacturing Industry.

Also included in the mining and quarrying industry are quarries operated by brickworks, cement works, etc. and "quarries" winning direct construction materials such as sand, gravel, building stone and broken and crushed stone for road making, etc. The data include estimates of value of output and value of production for fossicking activities but fossickers are excluded from tables showing employment. Prospecting and exploration and development of mining properties are included.

The foregoing definition of the Mining and Quarrying Industry was adopted by all Australian Statisticians for the purpose of collecting and compiling mining and quarrying statistics as from 1952. The consequential modifications to the definition of the Manufacturing Industry, which operated for the first time in the collection and compilation of factory statistics for 1952-53, resulted principally in the complete exclusion from factory statistics of concentration and other ore-dressing plants situated at or near mines; formerly, these were included in some States.

Australian Statisticians also adopted a tentative classification of the Mining and Quarrying Industry for use from 1952. This provides for the classification of mines and quarries to industries in four major groups (Metal Mining, Fuel Mining, Non-Metal (excl. Fuel) Mining and Construction Material Quarrying), on the basis of principal type of ore or mineral sought or won. This classification has been used in compiling industry statistics included in this Bulletin but, in practice, much of the data for individual industries has had to be grouped for publication to avoid revealing information supplied by the limited numbers of mines or quarries classified to certain mining industries.

(ii) SCOPE OF THE STATISTICS.

Detailed statistics compiled from data collected on the Census returns comprise numbers of persons employed in various categories, salaries and wages paid, value of new investment in fixed assets, value of power, fuel and light and materials and stores used, value of output, value of production and quantities of various fuels used. In view of the difficulty of obtaining much of this type of information from small mines, the detailed census returns were collected only from mines and quarries employing four or more persons. However, estimates of numbers of mines and quarries, numbers employed, value of output and value of production (based on the collection of simplified census returns and/or Mines Department records) were made for the small mines and quarries omitted from the detailed census, thus providing estimated totals for these major items for all mines and quarries. Data for other items refer to mines and quarries employing four or more persons.

The coverage of the collection in respect of "quarrying" of construction materials is incomplete in some degree in most States. This deficiency is due primarily to the inherent difficulty of obtaining complete lists of quarries (including those operated by Government and Local-Governmental Authorities) many of which operate intermittently and in different locations. There is also difficulty in obtaining satisfactory returns from quarries operated in conjunction with some other activity, e.g. road making, etc. The activities of quarries operated in conjunction with large construction projects, such as the Snowy Mountains scheme, are excluded from these statistics. Usually such quarries are closely associated with other works in the project, and employees, plant, machinery, etc., employed in quarries spend considerable time on work other than quarrying. It is difficult to obtain an apportionment of such items to purely quarrying activities.

Some deficiencies also occur in the collection of data for certain Non-Metal (excluding Fuel) Mining Industries (e.g., clays and salt), due principally to these being outside fields normally under the administrative control of Mines Departments.

Details in connexion with prospecting and exploration for oil are not available for all States, nor are comparable figures available for all years for the States in which they are collected. Australian totals are therefore deficient to this extent and do not reflect the actual trend in the level of operations.

Details of the activities of mining establishments engaged in the mining and treatment of uranium ore have been excluded from all tables in the Bulletin.

(iii) DEFINITIONS OF TERMS USED.

(a) Persons Employed. All persons engaged in and around the mine on mining and developmental operations, in underground and surface workshops and in crushing and ore-dressing operations, are included. Salaried staff engaged in the management of the mine are included but not head office staffs.

(b) Salaries and Wages Paid. These relate to amounts paid to employees (excluding drawings by working proprietors), including amounts capitalized as well as those charged to working expenses. The amounts are gross (including holiday and sick pay) before any deduction for income tax, pensions, etc. The value of explosives sold to employees has, however, been deducted.

(c) Value of Power, Fuel and Light Used. This includes all fuels and purchased electricity. The amounts shown relate only to items charged to working expenses and exclude amounts capitalized or charges to mine development. Where electricity is generated at the mine, in general no value is shown for electricity but the fuels used in generation are included. In certain cases, however, where the mine power-house is relatively large, it has been classified for statistical purposes as a separate establishment and included in manufacturing. In these cases electricity is shown as "Purchased", and fuels used in generation are excluded.

(d) Value of Materials and Stores Used. This includes timber and explosives (including the value of explosives sold to employees) and other mining and ore-dressing materials and stores, materials used in repairs effected by own workmen (labour costs being included in wages), tools replaced and repairs done by non-employees of the mine. The amounts refer to working expenses only and exclude amounts capitalized.

(e) Value of Output. The amounts shown under this heading represent selling value at the mine or quarry (or associated ore crushing or dressing plant), (i.e., selling value at point of sale less transport costs from the mine or quarry to the point of sale) of ores, concentrates or other minerals produced during the year. Operators were instructed to value output on the basis of value of minerals produced during the year (i.e., as distinct from sales or dispatches), including estimated value in respect of any portion of the year's production for which final realizations had not been made at the time of completing the return. The amounts represent the "selling value" of the minerals won after treatment such as crushing and ore-dressing done at or near the mine. Value added by the processes of reduction of ores, concentrates, etc. to a metal are excluded. "Producer-consumers" (e.g., of limestone in the case of a cement manufacturer) were asked to value output on the basis of production costs of mining and treatment done at the mine (e.g., crushing, but in the case of a cement manufacturer as cited above, not cement manufacture), plus an allowance for business overhead and profit.

(f) Value of Production. The value of production of any industry has been defined by Australian Statisticians as "the value of consumable commodities produced during the year, deducting, as far as possible, the value of goods consumed in the process of production". Value of production is the only satisfactory measure to use when comparing or combining value of mining and quarrying operations with values of other activities. The value of production for mining and quarrying shown in this Bulletin has been calculated by deducting from value of output, the value (at the mine or quarry) of fuel, power and light, and timber, explosives and other materials and stores used (including costs of repairs). Certain information on depreciation of plant, land and buildings and mine development was collected, but, because of its generally unsatisfactory nature, depreciation has not been deducted in arriving at value of production.

Many other costs and expenses such as royalties, maintenance (other than repairs) of buildings and plant, workers' compensation and other insurance, taxation, etc. have also not been deducted in arriving at value of production. Consequently, when salaries and wages are deducted from value of production, only portion of the balance is available as interest and profits.

II. SUMMARY OF MINING AND QUARRYING OPERATIONS

A summary of mining and quarrying operations in Australia during the years 1952 to 1956 is shown in Table 1 below. As mentioned in Section I, the collection of the fully detailed "Census" returns was confined to mines and quarries employing four or more persons, but estimates of numbers of mines and quarries, persons employed, value of output, value of fuel materials etc. used, and value of production have been made for the small mines omitted from the detailed census, thus providing the estimated totals for these principal items shown in Table 1. Other items omit particulars for mines and quarries employing less than four persons.

TABLE 1 : SUMMARY OF MINING AND QUARRYING OPERATIONS : AUSTRALIA, 1952 TO 1956

Particulars	Year	Metal Mining	Fuel Mining	Non-metal (excl. Fuel) Mining (a)	Total All Mining	Construction Material Quarrying (b)	Total All Mining and Quarrying
		Number	Number	Number	Number	Number	Number
Mines and Quarries	1952	874	299	636	1,809	530	2,339
	1953	1,099	285	703	2,087	679	2,766
	1954	818	306	683	1,807	687	2,494
	1955	870	277	743	1,890	712	2,602
	1956	896	265	833	1,994	745	2,739
Persons Employed (c)	1952	21,411	28,415	3,070	52,896	4,162	57,058
	1953	22,022	28,204	2,946	53,172	3,803	56,975
	1954	21,366	28,268	2,858	52,492	4,121	56,613
	1955	21,992	27,230	2,875	52,097	4,197	56,294
	1956	23,271	25,475	2,970	51,716	4,329	56,045
Salaries and Wages Paid (d) (e)	1952	£1'000	£1'000	£1'000	£1'000	£1'000	£1'000
	1953	22,367	25,059	1,617	49,043	2,020	51,063
	1954	22,715	25,654	1,684	50,053	2,007	52,060
	1955	23,308	27,545	1,693	52,546	2,045	54,591
	1956	26,246	27,826	2,270	56,342	2,439	58,781
Value of Output (f)	1952	29,829	28,082	2,390	60,301	2,738	63,039
	1953	56,268	56,635	5,042	127,945	8,899	136,844
	1954	62,819	56,052	6,233	125,104	9,438	134,542
	1955	71,150	58,829	7,041	137,020	12,383	149,403
	1956	84,530	58,119	7,375	150,024	14,847	164,871
Total Value of Power, Fuel, and Light and Stores Used	1952	94,643	57,083	8,154	159,880	16,440	176,320
	1953	15,012	9,459	1,062	25,533	1,640	27,173
	1954	16,585	9,813	1,376	27,774	1,893	29,667
	1955	17,297	10,642	1,422	29,361	1,955	31,316
	1956	17,776	10,523	1,606	29,905	2,458	32,363
Value of Production (g)	1952	20,444	10,990	1,941	33,375	2,966	36,341
	1953	51,257	47,176	3,979	102,412	7,259	109,671
	1954	46,234	46,239	4,858	97,331	7,544	104,875
	1955	53,853	48,187	5,619	107,659	10,428	118,087
	1956	66,754	47,596	5,769	120,119	12,389	132,508
Value of Additions and Replacements to Fixed Assets (d)	1952	74,199	46,093	6,213	126,505	13,474	139,979
	1953	8,884	8,103	1,038	18,025	(h)	(h)
	1954	8,004	8,910	704	17,618	140	17,758
	1955	6,834	8,008	549	15,391	256	15,647
	1956	7,817	6,490	2,718	17,025	304	17,329
	1956	9,609	9,421	1,725	20,755	656	21,411

(a) Incomplete for some industries outside the normal administrative control of Mines Departments (e.g. Clays and Salt). (b) Incomplete in some States. (c) Average number employed (including working proprietors) during whole year, except in 1952 when average during period worked by individual mines and quarries. (d) Excludes mines and quarries employing less than four persons. (e) Excludes drawings by working proprietors; the amounts are net after deducting value of explosives sold to employees. (f) Value at mine or quarry. (g) Value of Output less cost of power, fuel and light and other materials and stores used. (h) Not available.

In Table 2, the same items for total mining and quarrying operations during the year 1956 are shown for each State and Territory. Of the total value of production of mines and quarries of £139,979,000 in 1956, New South Wales contributed £72,049,000 (51.5 per cent.); Queensland £24,148,000 (17.3 per cent.) and Western Australia £14,350,000 (10.3 per cent.).

TABLE 2 : SUMMARY OF MINING AND QUARRYING OPERATIONS - STATE AND TERRITORIES, 1956

State	Mines and Quarries	Persons Employed (a)	Salaries and Wages Paid (b) (c)	Value of Output (d)	Total Fuel, Materials etc. Used	Value of Production (e)	Value of Additions & Replacements to Fixed Assets (b)
			£'000	£'000	£'000	£'000	£'000
New South Wales	839	28,316	33,330	88,790	16,741	72,049	8,401
Victoria	229	4,601	4,673	11,891	2,434	9,457	3,737
Queensland	595	9,339	10,697	30,204	6,056	24,148	3,671
South Australia	577	2,213	1,938	11,910	2,423	9,487	1,540
Western Australia	287	8,030	8,289	20,230	5,880	14,350	2,238
Tasmania	80	2,866	3,337	10,555	2,256	8,299	682
Northern Territory	128	638	730	2,594	510	2,084	960
Aust. Cap. Terr.	4	42	45	146	41	105	182
AUSTRALIA:	2,739	56,045	63,039	176,320	36,341	139,979	21,411

(a) Average number employed (including working proprietors) during whole year.

(b) Excludes mines and quarries employing less than four persons. (c) Excludes drawings by working proprietors; the amounts are not after deducting value of explosives sold to employees. (d) Value at mine or quarry. (e) Value of output less cost of power, fuel and light and other materials and stores used; depreciation and maintenance costs have not been deducted.

The value of output for the mining and quarrying industry in each State or Territory for the years 1952 to 1956 is shown in the next table, together with a preliminary estimate for the year 1957.

TABLE 3 : MINING AND QUARRYING : VALUE OF OUTPUT (a), 1952 TO 1957
(£'000)

State or Territory	1952	1953	1954	1955	1956	1957 (b)
New South Wales	77,097	72,346	78,202	84,244	88,790	83,170
Victoria	8,535	9,329	10,080	10,917	11,891	13,349
Queensland	17,429	17,284	21,602	26,892	30,204	26,538
South Australia	6,047	6,203	8,580	10,512	11,910	11,871
Western Australia	17,704	20,011	20,736	19,746	20,230	20,833
Tasmania	8,750	8,037	8,955	10,744	10,555	9,556
Northern Territory	1,282	1,221	1,145	1,691	2,594	2,464
Aust. Cap. Terr.	(c)	111	103	125	146	170
AUSTRALIA:	136,844	134,542	149,403	164,871	176,320	167,951

(a) Value at mine or quarry. (b) Subject to revision. (c) Not available.

III. DETAILED STATISTICS OF MINING AND QUARRYING OPERATIONS
TABLE 4 - MINING AND QUARRYING : NUMBER OF MINES AND QUARRIES, 1956

Industry	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	A.C.T.	Australia
<u>Metal Minings</u>									
Gold Mining	21	27	(a) 50	(a) 12	(a) 38	-	23	-	(a) 171
Silver-Lead-Zinc Mining	26	-	25	8	27	5	3	-	94
Copper-Gold Mining	21	-	125	6	7	1	12	-	172
Tin Mining	45	-	99	-	15	31	6	-	196
Mineral Sands Mining	15	-	9	-	1	-	1	-	26
Other Metal Mining	32	4	85	2	49	8	57	-	237
<u>Total Metal Mining</u>	160	31	393	28	137	45	102	-	896
<u>Fuel Minings</u>									
Black Coal Minings									
Underground	126	5	80	-	12	(b) 11	-	-	(b) 234
Open-cut	4	-	5	1	4	-	-	-	14
<u>Total Black Coal Mining</u>	130	5	85	1	16	11	-	-	248
Brown Coal Mining	-	7	-	-	-	-	-	-	7
Oil Mining (c)	3	2	(d)	-	(d)	-	5	-	10
<u>Total Fuel Mining</u>	133	14	85	1	16	11	5	-	265
<u>Non-Metal (excluding Fuel) Minings</u>									
Clays (c)	204	18	47	49	11	7	-	1	337
Gypsum	7	7	-	8	5	-	-	-	27
Limestone	30	11	21	22	4	8	-	-	96
Salt (c)	-	(d)	1	22	(d)	-	(d)	-	23
Other Non-Metal (excluding Fuel) Mining	59	6	13	(e) 190	59	2	21	-	350
<u>Total Non-Metal (excl. Fuel) Mining</u>	300	42	82	291	79	17	21	1	833
<u>Total All Mining</u>	593	87	560	320	232	73	128	1	1,994
<u>Construction Material Quarrying (c)</u>	246	142	35	257	55	7	-	3	745
<u>TOTAL, ALL MINING AND QUARRYING</u>	839	229	595	577	287	80	128	4	2,739

(a) Includes custom batteries and mills.
 see Section I. Scope of Statistics.

(b) Includes one mine operating both underground and open-cut workings. (c) Incomplete;
 (d) Not available. (e) Includes Opals, 160.

TABLE 5 - MINING AND QUARRYING : NUMBER OF MINES AND QUARRIES, AUSTRALIA: 1952 TO 1956

Industry	1952	1953	1954	1955	1956
<u>Metal Mining:</u>					
Gold Mining (a)	224	209	215	191	171
Silver-lead-Zinc Mining	112	91	61	83	94
Copper-Gold Mining	38	143	113	130	172
Tin Mining	171	264	212	227	196
Mineral Sands Mining	4	16	14	17	26
Other Metal Mining	325	376	199	222	237
<u>Total Metal Mining</u>	874	1,099	818	870	896
<u>Fuel Mining:</u>					
Black Coal Mining:					
Underground (b)	261	252	259	248	234
Open-cut	29	26	20	17	14
<u>Total Black Coal Mining</u>	290	278	279	265	248
Brown Coal Mining	8	6	7	7	7
Oil Mining (c)	1	1	20	5	10
<u>Total Fuel Mining</u>	299	285	306	277	265
<u>Non-Metal (excluding Fuel) Mining:</u>					
Clays (c)	248	262	271	319	337
Gypsum	38	33	30	27	27
Limestone	97	94	92	86	96
Salt (c)	19	21	19	21	23
Other Non-Metal (excluding Fuel) Mining	234	293	271	290	350
<u>Total Non-Metal (excl. Fuel) Mining</u>	636	703	683	743	833
<u>Total All Mining</u>	1,809	2,087	1,807	1,890	1,994
<u>Construction Material Quarrying (c)</u>	530	679	687	712	745
<u>TOTAL, ALL MINING AND QUARRYING</u>	2,339	2,766	2,494	2,602	2,739

(a) Includes custom batteries and mills.
see Section I. Scope of Statistics.

(b) Includes one mine operating both underground and open-cut workings.

(c) Incomplete;

TABLE 6 - MINING AND QUARRYING : AVERAGE NUMBER OF PERSONS EMPLOYED (INCLUDING WORKING PROPRIETORS) DURING PERIOD WORKED, 1955 AND 1956

Industry	1955					1956				
	AUSTRALIA	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	A.C.T.	AUSTRALIA
Metal Mining:										
Gold Mining	6,878	122	385	147	(a)	5,612	-	260	-	6,526
Silver-Lead-Zinc Mining	10,142	6,677	-	(b)	(a)	-	764	(b)	-	10,656
Copper-Gold Mining	2,234	66	-	(b)	(a)	(b)	(b)	199	-	2,321
Tin Mining	1,119	147	-	330	-	66	469	8	-	1,020
Mineral Sands Mining	912	1,013	-	714	-	(b)	-	(b)	-	1,736
Other Metal Mining	1,404	69	14	(b)	441	328	(b)	103	-	1,521
Total Metal Mining	22,689	8,220	399	5,589	441	6,172	2,341	618	-	23,780
Fuel Mining:										
Black Coal Mining:										
Underground	} 25,891 {	17,598	682	3,449	-	} 1,266 {	349	-	-	24,103
Open-cut		320	-	179	260					
Total Black Coal Mining	25,891	17,918	682	3,628	260	1,266	349	-	-	24,103
Brown Coal Mining	1,655	-	1,655	-	-	-	-	-	-	1,655
Oil Mining (c)	175	(d)	(d)	(e)	-	(e)	-	30	-	30
Total Fuel Mining	27,721	17,918	2,337	3,628	260	1,266	349	30	-	25,788
Non-Metal (excluding Fuel) Mining:										
Clays (c)	915	481	79	102	165	13	39	-	(f)	879
Gypsum	207	36	38	-	118	10	-	-	-	202
Limestone	994	343	183	(b)	161	(b)	101	-	-	967
Salt (c)	184	-	(e)	(b)	(b)	(e)	-	(e)	-	187
Other Non-Metal (excluding Fuel) Mining	953	304	69	19	(b)	(b)	5	35	-	1,102
Total Non-Metal (excl. Fuel) Mining	3,253	1,164	369	281	906	437	145	35	(f)	3,337
Total All Mining	53,663	27,302	3,105	9,498	1,607	7,875	2,835	683	(f)	52,905
Construction Material Quarrying (c)	4,698	1,245	1,682	269	1,248	294	75	-	47	4,860
TOTAL ALL MINING AND QUARRYING	58,361	28,547	4,787	9,767	2,855	8,169	2,910	683	47	57,765

(a) Not available for publication; included with "Other Metal Mining". (b) Not available for publication. (c) Incomplete; see Section I - Scope of Statistics. (d) Not available for publication; included with "Other Non-Metal Mining". (e) Not available. (f) Not available for publication; included with "Construction Material Quarrying".

TABLE 7 : MINING AND QUARRYING : AVERAGE NUMBER OF PERSONS EMPLOYED (INCLUDING WORKING PROPRIETORS) DURING WHOLE YEAR, 1956

Industry	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	A.C.T.	AUSTRALIA
<u>Metal Mining:</u>									
Gold Mining	107	379	133	(a)	5,612	-	257	-	6,488
Silver-Lead-Zinc Mining	6,784	-	(b)	(a)	(b)	764	(b)	-	10,623
Copper-Gold Mining	47	-	(b)	(a)	(b)	(b)	195	-	2,210
Tin Mining	113	-	320	-	62	435	8	-	938
Mineral Sands Mining	986	-	558	-	(b)	-	(b)	-	1,592
Other Metal Mining	45	14	(b)	414	322	(b)	93	-	1,420
<u>Total Metal Mining:</u>	8,082	393	5,326	414	6,162	2,301	593	-	23,271
<u>Fuel Mining:</u>									
Black Coal Mining:									
Underground	17,598	610	3,393	-	1,190	349	-	-	23,895
Open-cut	320	-	175	260		-	-	-	-
<u>Total Black Coal Mining</u>	17,918	610	3,568	260	1,190	349	-	-	23,895
Brown Coal Mining	-	1,566	-	-	-	-	-	-	1,566
Oil Mining (c)	(d)	(d)	(e)	-	(e)	-	14	-	14
<u>Total Fuel Mining</u>	17,918	2,176	3,568	260	1,190	349	14	-	25,475
<u>Non-Metal (excluding Fuel) Mining:</u>									
Clays (e)	470	70	52	129	13	38	-	(f)	772
Gypsum	33	30	-	114	10	-	-	-	187
Limestones	323	181	(b)	146	(b)	101	-	-	906
Salt (e)	-	(e)	(b)	(b)	(e)	-	(e)	-	141
Other Non-metal (excluding Fuel) Mining	245	69	16	(b)	(b)	3	31	-	964
<u>Total Non-Metal (excl. Fuel) Mining</u>	1,071	350	205	735	436	142	31	(f)	2,970
<u>Total All Mining</u>	27,071	2,919	9,099	1,409	7,788	2,792	638	(f)	51,716
<u>Construction Material Quarrying (e)</u>	1,245	1,682	240	804	242	74	-	42	4,329
<u>TOTAL ALL MINING AND QUARRYING</u>	28,316	4,601	9,339	2,213	8,030	2,866	638	42	56,045

(a) Not available for publication; included with "Other Metal Mining". (b) Not available for publication. (c) Incomplete; see Section I - Scope of Statistics. (d) Not available for publication; included with "Other Non-Metal Mining". (e) Not available. (f) Not available for publication; included with "Construction Material Quarrying".

TABLE 8 : MINING AND QUARRYING : AVERAGE NUMBER OF PERSONS EMPLOYED (INCLUDING WORKING PROPRIETORS) DURING WHOLE YEAR, AUSTRALIA, 1952 TO 1956

Industry	1952(a)	1953	1954	1955	1956
<u>Metal Mining:</u>					
Gold Mining	6,583	7,050	7,192	6,753	6,488
Silver-Lead-Zinc Mining	9,497	9,686	9,397	10,076	10,623
Copper-Gold Mining	2,112	2,025	1,957	2,062	2,210
Tin Mining	999	1,063	969	937	938
Mineral Sands Mining	} 2,220 {	597	598	891	1,592
Other Metal Mining		1,601	1,253	1,273	1,420
<u>Total Metal Mining:</u>	21,411	22,022	21,366	21,992	23,271
<u>Fuel Mining:</u>					
Black Coal Mining:					
Underground	} 26,612 {	24,818	} 26,614 {	25,660	23,895
Open-cut		1,788			
<u>Total Black Coal Mining</u>	26,612	26,606	26,614	25,660	23,895
Brown Coal Mining	1,691	1,598	1,598	1,502	1,566
Oil Mining (b)	112	(a)	56	68	14
<u>Total Fuel Mining</u>	28,415	28,204	28,268	27,230	25,475
<u>Non-Metal (excluding Fuel) Mining:</u>					
Clays (b)	760	882	914	813	772
Gypsum	204	160	197	201	187
Limestone	980	960	839	929	906
Salt (b)	273	131	114	125	141
Other Non-metal (excluding Fuel) Mining	853	813	794	807	964
<u>Total Non-Metal (excl. Fuel) Mining</u>	3,070	2,946	2,858	2,875	2,970
<u>Total All Mining</u>	52,896	53,172	52,492	52,097	51,716
<u>Construction Material Quarrying (b)</u>	4,162	3,803	4,121	4,197	4,329
<u>TOTAL ALL MINING AND QUARRYING</u>	57,058	56,975	56,613	56,294	56,045

(a) Average number of persons employed during actual period worked; Whole year figures not available for this year. (b) Incomplete; see Section I - Scope of Statistics. (c) Not available for publication; included with "Other Non-Metal Mining".

TABLE 9 - MINING AND QUARRYING, WORKING PROPRIETORS, SALARIED STAFF AND WAGE EARNERS ON LATEST FULL WORKING DAY IN 1955 AND 1956 - AUSTRALIA
(NOTE: EXCLUDES MINES AND QUARRIES EMPLOYING LESS THAN FOUR PERSONS)

Industry	1955	Working Proprietors	1956						
	Total Persons Employed (a)		Salaried Staff		Wage Earners		Total Persons Employed		
			Above Ground	Below Ground	Above Ground	Below Ground	Males	Females	Total
<u>Metal Mining:</u>									
Gold Mining	5,735	32	479	218	2,327	2,594	5,579	71	5,650
Silver-Lead-Zinc Mining	10,276	24	1,198	612	3,764	4,098	10,396	200	10,596
Copper-Gold Mining	1,990	19	248	10	1,517	165	1,906	53	1,959
Tin Mining	778	31	53	1	475	173	729	4	733
Mineral Sands Mining	1,057	9	185	-	1,973	-	2,030	37	2,067
Other Metal Mining	1,163	24	127	9	743	96	1,164	35	1,199
<u>Total Metal Mining</u>	20,999	139	2,290	850	10,899	8,026	21,804	400	22,204
<u>Fuel Mining:</u>									
Black Coal Mining	25,014	90	829	254	6,792	15,903	23,775	93	23,868
Brown Coal Mining	1,658	1	152	-	1,417	4	1,570	4	1,574
Oil Mining (b)	125	3	44	-	74	-	120	1	121
<u>Total Fuel Mining</u>	26,797	94	1,025	254	8,283	15,907	25,465	98	25,563
<u>Non-Metal (excl. Fuel) Mining:</u>									
Clays (b)	471	11	17	-	353	11	392	-	392
Gypsum	168	5	13	-	149	2	169	-	169
Limestone	913	22	51	-	798	-	859	2	871
Salt (b)	219	1	16	-	164	-	120	1	181
Other Non-Metal (excl. Fuel) Mining	465	12	41	11	432	117	603	10	613
<u>Total Non-Metal (excl. Fuel) Mining</u>	2,236	51	138	11	1,896	130	2,213	13	2,226
<u>Total All Mining</u>	50,032	284	3,453	1,115	21,078	24,063	49,482	511	49,993
<u>Construction Material Quarrying (b)</u>	2,893	37	56	-	2,825	-	2,876	42	2,918
<u>TOTAL ALL MINING AND QUARRYING</u>	52,925	321	3,509	1,115	23,903	24,063	52,358	553	52,911

(a) The total for All Mining and Quarrying consists of: Working Proprietors 248; Salaried Staff - Above Ground 3,312, Below Ground 1,116; Wage Earners - Above Ground 23,477, Below Ground 24,772. Included in the total persons employed were 52,423 males and 502 females.
 (b) Incomplete; see Section I - Scope of Statistics.

TABLE 10 : MINING AND QUARRYING : SALARIES AND WAGES PAID CLASSIFIED ACCORDING TO INDUSTRY (a) DURING 1956

(NOTE: EXCLUDES MINES AND QUARRIES EMPLOYING LESS THAN FOUR PERSONS)

(£'000)

Industry	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	A.C.T.	AUSTRALIA
<u>Metal Mining:</u>									
Gold Mining	(b)	368	(b)	-	5,644	-	370	-	6,551
Silver-Lead-Zinc Mining	11,527	-	(b)	-	(b)	845	(b)	-	17,299
Copper-Gold Mining	32	-	(b)	-	-	(b)	258	-	2,098
Tin Mining	58	-	(b)	-	(b)	455	-	-	733
Mineral Sands Mining	995	-	640	-	(b)	-	(b)	-	1,644
Other Metal Mining	(b)	8	(b)	490	380	(b)	31	-	1,504
<u>Total Metal Mining</u>	12,715	376	6,523	490	6,222	2,784	719	-	29,829
<u>Fuel Mining:</u>									
Black Coal Mining	19,848	605	3,823	311	1,451	384	-	-	26,422
Brown Coal Mining	-	1,649	-	-	-	-	-	-	1,649
Oil Mining (c)	(d)	(d)	(e)	-	(e)	-	11	-	11
<u>Total Fuel Mining</u>	19,848	2,254	3,823	311	1,451	384	11	-	28,082
<u>Non-Metal (excluding Fuel) Mining:</u>									
Clays (c)	205	54	-	62	-	19	-	(f)	340
Gypsum	38	(b)	-	(b)	(b)	-	-	-	183
Limestone	326	268	(b)	152	(b)	85	-	-	1,001
Salt (c)	-	(e)	(b)	(b)	(e)	-	(e)	-	140
Other Non-Metal (excluding fuel) Mining	198	(b)	-	(b)	403	-	(g)	-	726
<u>Total Non-Metal (excl. Fuel) Mining</u>	767	409	156	531	423	104	(g)	(f)	2,390
<u>Total All Mining</u>	33,330	3,039	10,502	1,332	8,096	3,272	730	(f)	60,301
<u>Construction Material Quarrying (c)</u>	(e)	1,634	195	606	193	65	-	45	2,738
<u>TOTAL ALL MINING AND QUARRYING</u>	33,330	4,673	10,697	1,938	8,289	3,337	730	45	63,039

(a) Includes drawings by Working Proprietors; the amounts shown are net after deductions for explosives sold to employees.

(b) Not available for publication. (c) Incomplete; see Section I - Scope of Statistics. (d) Not available for publication; included with "Other Non-Metal Mining". (e) Not available. (f) Not available for publication; included with "Construction Material Quarrying".

(g) Less than £500.

TABLE 11 : MINING AND QUARRYING : SALARIES AND WAGES PAID CLASSIFIED ACCORDING TO INDUSTRY (a), AUSTRALIA : 1952 TO 1956

(NOTE: EXCLUDES MINES AND QUARRIES EMPLOYING LESS THAN FOUR PERSONS)

(£'000)

Industry	1952	1953	1954	1955	1956
<u>Metal Mining:</u>					
Gold Mining	5,952	6,291	6,450	6,344	6,551
Silver-Lead-Zinc Mining	12,690	12,359	12,761	15,154	17,299
Copper-Gold Mining	1,655	1,608	1,786	1,867	2,098
Tin Mining	562	715	704	734	733
Mineral Sands Mining	481	362	412	819	1,644
Other Metal Mining	1,027	1,380	1,195	1,328	1,504
<u>Total Metal Mining</u>	22,367	22,715	23,308	26,246	29,829
<u>Fuel Mining:</u>					
Black Coal Mining	23,565	24,171	25,988	26,065	26,422
Brown Coal Mining	1,450	1,483	1,557	1,761	1,649
Oil Mining (b)	44	(c)	(c)	(c)	11
<u>Total Fuel Mining</u>	25,059	25,654	27,545	27,826	28,082
<u>Non-Metal (excluding Fuel) Mining:</u>					
Clays (b)	118	142	141	398	340
Gypsum	99	81	101	129	183
Limestone	702	802	769	935	1,001
Salt (b)	156	107	94	113	140
Other Non-Metal (excluding Fuel) Mining	542	552	588	695	726
<u>Total Non-Metal (excl. Fuel) Mining</u>	1,617	1,684	1,693	2,270	2,390
<u>Total All Mining</u>	49,043	50,053	52,546	56,342	60,301
<u>Construction Material Quarrying (b)</u>	2,020	2,007	2,045	2,439	2,738
<u>TOTAL ALL MINING AND QUARRYING</u>	51,063	52,060	54,591	58,781	63,039

(a) Excludes drawings by Working Proprietors; the amounts shown are net after deductions for explosives sold to employees. (b) Incomplete; see Section I - Scope of Statistics. (c) Not available for publication; included with "Other Non-Metal Mining".

TABLE 12 : MINING AND QUARRYING : SALARIES AND WAGES PAID (a) DURING 1955 AND 1956

(NOTE : EXCLUDES MINES AND QUARRIES EMPLOYING LESS THAN FOUR PERSONS).

(£'000)

Industry and Item	1955	1956							
	AUSTRALIA	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	A.C.T.
<u>Metal Mining:</u>									
Salaries	3,956	2,361	43	1,087	30	778	411	123	-
Wages	22,290	10,354	333	5,436	460	5,444	2,373	596	-
<u>Total Salaries and Wages:</u>	26,246	12,715	376	6,523	490	6,222	2,784	719	-
<u>Fuel Mining (b):</u>									
Salaries	1,680	1,093	265	245	66	40	19	9	-
Wages	26,146	12,755	1,989	3,578	245	1,402	365	2	-
<u>Total Salaries and Wages:</u>	27,826	19,848	2,254	3,823	311	1,451	384	11	-
<u>Non-Metal (excl. Fuel) Mining (b) -</u>									
Salaries	264	47	145	4	48	59	9	-	(a)
Wages	2,006	720	264	152	483	364	95	(c)	(a)
<u>Total Salaries and Wages:</u>	2,270	767	409	156	531	423	104	(c)	(a)
<u>Construction Material Quarrying (b) -</u>									
Salaries	74	(e)	-	10	38	19	5	-	11
Wages	2,365	(e)	1,634	185	568	174	60	-	34
<u>Total Salaries and Wages:</u>	2,439	(e)	1,634	195	606	193	65	-	45
<u>Total All Mining and Quarrying -</u>									
Salaries:									
Males	5,792	3,359	450	1,329	173	876	434	128	11
Females	182	142	3	17	9	29	10	4	-
<u>Total Salaries:</u>	5,974	3,501	453	1,346	182	905	444	132	11
Wages:									
Males	52,672	29,813	4,204	9,255	1,752	7,371	2,884	597	34
Females	135	16	16	96	4	13	9	1	-
<u>Total Wages:</u>	52,807	29,829	4,220	9,351	1,756	7,384	2,893	598	34
<u>Total Salaries and Wages:</u>	58,781	33,330	4,673	10,697	1,938	8,289	3,337	730	45

(a) Excludes drawings by working proprietors. Value of explosives sold to employees have been deducted from wages paid to male employees.

(b) Incomplete. (c) Less than £500. (d) Not available for publication; included with "Construction Material Quarrying". (e) Not available.

TABLE 13 : MINING AND QUARRYING : VALUE OF POWER, FUEL AND LIGHT USED DURING 1955 AND 1956
(NOTE : EXCLUDES MINES AND QUARRIES EMPLOYING LESS THAN FOUR PERSONS)
(£'000)

Industry	1955	1956								
	AUSTRALIA	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	A.C.T.	AUSTRALIA
<u>Metal Mining:</u>										
Gold Mining	1,314	(a)	69	(a)	-	1,161	-	59	-	1,344
Silver-Lead-Zinc Mining	2,378	1,907	-	(a)	-	(a)	59	-	-	2,553
Copper-Gold Mining	267	4	-	(a)	-	-	(a)	34	-	261
Tin Mining	135	17	-	(a)	-	(a)	38	-	-	155
Mineral Sands Mining	178	242	-	104	-	(b)	-	(b)	-	346
Other Metal Mining	181	(a)	(c)	(c)	81	59	(a)	6	-	211
<u>Total Metal Mining</u>	4,453	2,216	69	889	81	1,266	250	99	-	4,870
<u>Fuel Mining:</u>										
Black Coal Mining	2,218	1,764	82	239	22	164	15	-	-	2,286
Brown Coal Mining	132	-	158	-	-	-	-	-	-	158
Oil Mining (d)	2	(e)	(e)	(e)	-	(e)	-	(e)	-	(e)
<u>Total Fuel Mining</u>	2,352	1,764	240	239	22	164	15	-	-	2,444
<u>Non-Metal (excl. Fuel) Mining</u>										
Clays (d)	52	23	19	-	5	-	2	-	-	49
Gypsum	37	12	4	-	(a)	(a)	-	-	-	39
Limestone	183	60	52	34	(a)	(a)	7	-	-	180
Salt (d)	15	-	(e)	(e)	28	(e)	-	(e)	-	28
Other Non-Metal (excl. Fuel) Mining	66	30	-	-	6	60	-	(c)	-	96
<u>Total Non-Metal (excl. Fuel) Mining</u>	353	125	75	34	86	63	9	(c)	-	392
<u>Total All Mining</u>	7,158	4,105	384	1,162	189	1,453	274	99	-	7,706
<u>Construction Material Quarrying (d)</u>	391	(e)	320	24	100	46	10	-	11	511
<u>TOTAL ALL MINING AND QUARRYING</u>	7,549	4,105	704	1,186	289	1,539	284	99	11	8,217

(a) Not available for publication. (b) Not available for publication; included with "Other Metal Mines". (c) Less than £500.
(d) Incomplete; see Section I - Scope of Statistics. (e) Not available.

TABLE 14 : MINING AND QUARRYING : POWER, FUEL AND LIGHT USED DURING 1956, AUSTRALIA

(NOTE: EXCLUDES MINES AND QUARRIES EMPLOYING LESS THAN FOUR PERSONS)

Industry	1955	1956						
	Total Power Fuel and Light Used	Coal	Coke	Wood	Fuel Oil, Petrol, etc.	Electricity Purchased	Other Fuels	Total Power Fuel and Light Used
	£'000	Tons	Tons	Tons	'000 gals.	£'000	£'000	£'000
<u>Metal Mining:</u>								
Gold Mining	1,314	127	159	54,478	8,181	390	2	1,344
Silver-Lead-Zinc Mining	2,378	2,322	1,279	1,291	444	2,105	358	2,553
Copper-Gold Mining	267	7,484	122	20	507	102	47	261
Tin Mining	135	13,373	6	14,402	277	32	1	155
Mineral Sands Mining	178	1,086	1	11,090	1,581	161	-	346
Other Metal Mining	181	-	32	1,321	1,078	60	21	211
<u>Total Metal Mining</u>	4,453	24,392	1,599	82,602	12,068	2,850	429	4,870
<u>Fuel Mining:</u>								
Black Coal Mining	2,218	127,063	23	-	1,248	1,674	18	2,286
Brown Coal Mining	132	-	-	-	207	124	-	158
Oil Mining (a)	2	-	-	-	-	-	-	(b)
<u>Total Fuel Mining</u>	2,352	127,063	23	-	1,455	1,798	18	2,444
<u>Non-Metal (excl. Fuel) Mining:</u>								
Clays (a)	52	-	-	590	50	4	13	(c)49
Gypsum	37	-	-	-	287	(d)	-	39
Limestone	183	4,108	7	911	270	81	30	180
Salt (a)	15	-	-	-	77	18	(d)	28
Other Non-Metal (excl. Fuel) Mining	66	-	-	1,590	604	4	(d)	96
<u>Total Non-Metal (excl. Fuel) Mining</u>	353	4,108	7	3,091	1,288	107	43	392
<u>Total All Mining</u>	7,158	155,563	1,629	85,693	14,811	4,755	490	7,706
<u>Construction Material Quarrying (a)</u>	391	-	17	2	856	67	12	(e)511
<u>TOTAL ALL MINING AND QUARRYING</u>	7,549	155,563	1,646	85,695	15,667	4,822	502	8,217
		£'000	£'000	£'000	£'000			
<u>TOTAL VALUE ALL MINING AND QUARRYING</u>	7,549	570	16	239	1,725	4,822	502	8,217

(a) Incomplete; see Section I - Scope of Statistics. (b) Not available. (c) Includes £23,000 for New South Wales which is not available for distribution by items. (d) Less than £500. (e) Includes £320,000 for Victoria which is not available for distribution by items.

TABLE 15 - MINING AND QUARRYING : VALUE OF MATERIALS AND STORES (a) (OTHER THAN POWER, FUEL AND LIGHT) USED DURING 1955 AND 1956

(NOTE: EXCLUDES MINES AND QUARRIES EMPLOYING LESS THAN FOUR PERSONS)

(£'000)

Industry	1955	1956								
	AUSTRALIA	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	A.C.T.	AUSTRALIA
<u>Metal Mining:</u>										
Gold Mining	3,548	(b)	110	(b)	-	3,216	-	164	-	3,590
Silver-Lead-Zinc Mining	6,288	5,091	-	(b)	-	(b)	219	-	-	7,347
Copper-Gold Mining	1,750	9	-	(b)	-	-	(b)	231	-	2,160
Tin Mining	189	14	-	(b)	-	(b)	100	-	-	181
Mineral Sands Mining	435	581	-	354	-	(c)	-	(c)	-	935
Other Metal Mining	988	(b)	(d)	(b)	489	164	(b)	16	-	1,224
<u>Total Metal Mining</u>	13,190	5,773	110	3,377	489	3,518	1,759	411	-	15,437
<u>Fuel Mining:</u>										
Black Coal Mining	7,848	6,418	68	1,046	123	385	145	-	-	8,185
Brown Coal Mining	321	-	362	-	-	-	-	-	-	362
Oil Mining (e)	-	(f)	(f)	(f)	-	(f)	-	(f)	-	(f)
<u>Total Fuel Mining</u>	8,169	6,418	430	1,046	123	385	145	-	-	8,547
<u>Non-Metal (excl. Fuel) Mining:</u>										
Clays (e)	115	100	20	-	13	-	1	-	(g)	134
Gypsum	83	32	7	-	(b)	(b)	-	-	-	115
Limestone	728	245	252	188	(b)	(b)	34	-	-	876
Salt (e)	125	-	(f)	(d)	114	(f)	-	(f)	-	114
Other Non-Metal (excl. Fuel) Mining	125	51	-	-	21	148	-	(d)	-	220
<u>Total Non-Metal (excl. Fuel) Mining</u>	1,176	428	279	188	350	179	35	(d)	(g)	1,459
<u>Total All Mining</u>	22,543	12,519	819	4,611	962	4,082	1,939	411	(g)	25,443
<u>Construction Material Quarrying (e)</u>	1,842	(f)	911	137	857	185	24	-	31	2,145
<u>TOTAL ALL MINING AND QUARRYING</u>	24,385	12,519	1,730	4,748	1,819	4,267	1,963	411	31	27,588

(a) Including value of explosives sold to employees. (b) Not available for publication. (c) Not available for publication; included with "Other Metal Mining". (d) Less than £500. (e) Incomplete; see Section I - Scope of Statistics. (f) Not available. (g) Not available for publication; included with "Construction Material Quarrying".

TABLE 16 - METAL AND FUEL MINING : VALUE OF MATERIALS AND STORES (OTHER THAN POWER, FUEL AND LIGHT) USED DURING 1955 AND 1956

(NOTE: EXCLUDES MINES AND QUARRIES EMPLOYING LESS THAN FOUR PERSONS)

(£'000)

Industry and Material	1955	1956							
	AUSTRALIA	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	AUSTRALIA
Metal Mining:									
Timber	1,428	1,260	12	113	-	177	69	6	1,637
Explosives -									
Sold to employees	251	157	9	76	-	-	23	6	271
Other	1,177	105	4	246	164	554	241	19	1,333
Other Materials (a)	10,342	4,251	85	2,942	325	2,787	1,426	380	12,196
TOTAL:	13,198	5,773	110	3,377	489	3,518	1,759	411	15,437
Fuel Mining:									
Timber	1,491	1,255	23	162	-	63	12	-	1,515
Explosives -									
Sold to employees	194	92	10	92	-	-	4	-	198
Other	1,115	861	10	144	14	89	26	-	1,146
Other Materials (a)	5,369	4,210	387	648	109	233	101	-	5,688
TOTAL:	8,169	6,418	430	1,046	123	385	145	-	8,547
Metal and Fuel Mining:									
Timber	2,919	2,515	35	275	-	240	81	6	3,152
Explosives -									
Sold to employees	445	249	19	168	-	-	27	6	469
Other	2,292	966	14	390	178	643	269	19	2,479
Other Materials (a)	15,711	8,461	472	3,590	434	3,020	1,527	380	17,884
TOTAL:	21,367	12,191	540	4,423	612	3,903	1,904	411	23,984

(a) Includes mining and ore-dressing materials and stores, repairs, water, lubricating oil, etc.

TABLE 17 - MINING AND QUARRYING : VALUE OF POWER, FUEL, LIGHT, MATERIALS AND STORES, ETC. USED (a), 1956

(£'000)

Industry	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	A.C.T.	AUSTRALIA
<u>Metal Mining:</u>									
Gold Mining	116	179	46	(b)	4,377	-	223	-	4,941
Silver-Lead-Zinc Mining	6,999	-	(a)	(b)	(a)	278	-	-	9,907
Copper-Gold Mining	14	-	(a)	(b)	-	(a)	265	-	2,437
Tin Mining	34	-	153	-	100	141	-	-	428
Mineral Sands Mining	823	-	458	-	-	-	(b)	-	1,281
Other Metal Mining	14	(d)	(a)	573	(a)	(a)	22	-	1,450
<u>Total Metal Mining</u>	8,000	179	4,340	573	4,829	2,013	510	-	20,444
<u>Fuel Mining:</u>									
Black Coal Mining	8,181	150	1,285	145	549	160	-	-	10,470
Brown Coal Mining	-	520	-	-	-	-	-	-	520
Oil Mining (e)	(f)	(f)	(f)	-	(f)	-	(f)	-	(f)
<u>Total Fuel Mining</u>	8,181	670	1,285	145	549	160	-	-	10,990
<u>Non-Metal (excl. Fuel) Mining:</u>									
Clays (a)	123	38	24	31	-	5	-	(g)	221
Gypsum	44	12	-	105	12	-	-	-	173
Limestone	306	304	(a)	156	(a)	44	-	-	1,069
Salt (e)	-	(f)	(a)	(a)	(f)	-	(f)	-	150
Other Non-Metal (excl. Fuel) Mining	87	-	-	(a)	(a)	-	(a)	-	328
<u>Total Non-Metal (excl. Fuel) Mining</u>	560	354	250	476	252	49	(d)	(g)	1,941
<u>Total All Mining</u>	16,741	1,203	5,875	1,194	5,630	2,222	510	(g)	33,375
<u>Construction Material Quarrying (e)</u>	(f)	1,231	181	1,229	250	34	-	41	2,966
<u>TOTAL ALL MINING AND QUARRYING</u>	16,741	2,434	6,056	2,423	5,880	2,256	510	41	36,341

(a) Includes estimates for mines and quarries employing less than four persons. (b) Not available for publication; included with "Other Metal Mining". (c) Not available for publication. (d) Less than \$500. (e) Incomplete; see Section I - Scope of Statistics. (f) Not available. (g) Not available for publication; included with "Construction Material Quarrying".

TABLE 18 - MINING AND QUARRYING : VALUE OF POWER, FUEL, LIGHT, MATERIALS AND STORES, ETC. USED (a); AUSTRALIA 1952 TO 1956

(£'000)

Industry	1952	1953	1954	1955	1956
<u>Metal Mining:</u>					
Gold Mining	4,815	5,138	5,062	4,878	4,941
Silver-Lead-Zinc Mining	7,201	8,323	8,719	8,672	9,907
Copper-Gold Mining	1,645	1,506	1,308	2,053	2,437
Tin Mining	252	300	351	358	428
Mineral Sands Mining	}	408	446	614	1,281
Other Metal Mining		910	911	1,201	1,450
<u>Total Metal Mining</u>	15,011	16,585	17,297	17,776	20,444
<u>Fuel Mining:</u>					
Black Coal Mining	9,086	9,451	10,231	10,068	10,470
Brown Coal Mining	349	362	411	453	520
Oil Mining (b)	24	-	-	2	(c)
<u>Total Fuel Mining</u>	9,459	9,813	10,642	10,523	10,990
<u>Non-Metal (excl. Fuel) Mining:</u>					
Clays (b)	36	128	165	205	221
Gypsum	83	79	102	127	173
Limestone	557	637	776	921	1,069
Salt (b)	59	47	98	149	150
Other Non-Metal (excl. Fuel) Mining	328	485	281	204	328
<u>Total Non-Metal (excl. Fuel) Mining</u>	1,063	1,376	1,422	1,606	1,941
<u>Total All Mining</u>	25,533	27,774	29,361	29,905	33,375
<u>Construction Material Quarrying (b)</u>	1,640	1,893	1,955	2,458	2,966
<u>TOTAL ALL MINING AND QUARRYING</u>	27,173	29,667	31,316	32,363	36,341

(a) Includes estimates for mines and quarries employing less than four persons.

(b) Incomplete; see Section I - Scope of Statistics.

(c) Not available.

TABLE 19 - MINING AND QUARRYING, VALUE OF OUTPUT (a), 1956
(£'000)

Industry	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	S.T.	A.C.T.	AUSTRALIA
Metal Mining:									
Gold Mining	250	653	297	(b)	13,275	-	1,032	-	15,507
Silver-Lead-Zinc Mining	34,104	-	(c)	(b)	(c)	3,051	-	-	54,429
Copper-Gold Mining	22	-	(c)	(b)	(c)	(c)	1,360	-	6,667
Tin Mining	230	-	465	-	204	1,006	1	-	1,906
Mineral Sands Mining	5,130	-	1,925	-	(b)	-	(b)	-	7,055
Other Metal Mining	80	27	(c)	4,584	1,327	(c)	159	-	9,079
Total Metal Mining	39,816	680	22,130	4,584	15,354	9,527	2,552	-	94,643
Fuel Minings:									
Black Coal Mining	40,637	668	6,988	794	2,724	628	-	-	52,439
Brown Coal Mining	-	4,644	-	-	-	-	-	-	4,644
Oil Mining (d)	-	-	-	-	-	-	-	-	-
Total Fuel Mining	40,637	5,312	6,988	794	2,724	628	-	-	57,083
Non-Metal (excluding Fuel) Minings:									
Clays (d)	840	452	129	278	223	48	-	(e)	1,970
Gypsum	171	84	-	311	21	-	-	-	587
Limestone	901	620	(c)	859	(c)	163	-	-	3,127
Salt (d)	-	(f)	(c)	(c)	(f)	-	(f)	-	664
Other Non-Metal (excluding Fuel) Mining	499	5	17	(c)	(c)	4	42	-	1,806
Total Non-Metal (excl. Fuel) Mining	2,411	1,161	595	2,462	1,268	215	42	(e)	8,154
Total All Mining	82,864	7,153	29,713	7,840	19,346	10,370	2,594	(e)	159,880
Construction Material Quarrying (d)	5,926	4,738	491	4,070	884	185	-	146	16,440
TOTAL ALL MINING AND QUARRYING	88,790	11,891	30,204	11,910	20,230	10,555	2,594	146	176,320

- (a) Selling value at point of sale of mine or quarry products less transport costs from mine or quarry to point of sale, i.e. value of output at mine or quarry. (b) Not available for publication; included with "Other Metal Mining". (c) Not available for publication.
(d) Incomplete; see Section I - Scope of Statistics. (e) Not available for publication; included with "Construction Material Quarrying".
(f) Not available.

TABLE 20 - MINING AND QUARRYING : VALUE OF OUTPUT (a) : AUSTRALIA 1952 TO 1956.
(£'000)

Industry	1952	1953	1954	1955	1956
<u>Metal Mining :</u>					
Gold Mining	14,400	15,738	15,707	15,534	15,507
Silver-Lead-Zinc Mining	37,477	31,672	38,905	49,143	54,429
Copper-Gold Mining	4,003	4,384	5,568	6,559	6,667
Tin Mining	2,054	1,855	1,909	2,012	1,906
Mineral Sands Mining	} 8,333	1,976	1,933	3,415	7,055
Other Metal Mining		7,194	7,128	7,867	9,079
<u>Total Metal Mining</u>	66,268	62,819	71,150	84,530	94,643
<u>Fuel Mining:</u>					
Black Coal Mining	53,325	52,424	54,884	53,737	52,439
Brown Coal Mining	3,259	3,628	3,945	4,382	4,644
Oil Mining (b)	51	-	-	-	-
<u>Total Fuel Mining</u>	56,635	56,052	58,829	58,119	57,083
<u>Non-Metal (excluding Fuel) Minings</u>					
Clays (b)	1,091	1,557	1,918	1,957	1,970
Gypsum	277	262	433	551	587
Limestone	1,962	2,463	2,678	2,835	3,127
Salt (b)	405	478	621	592	664
Other Non-Metal (excluding Fuel) Mining	1,307	1,474	1,391	1,440	1,806
<u>Total Non-Metal (excl. Fuel) Mining</u>	5,042	6,234	7,041	7,375	8,154
<u>Total All Mining</u>	127,945	125,105	137,020	150,024	159,880
<u>Construction Material Quarrying (b)</u>	8,899	9,437	12,383	14,847	16,440
<u>TOTAL ALL MINING AND QUARRYING</u>	136,844	134,542	149,403	164,871	176,320

(a) Selling value at point of sale of mine or quarry products less transport costs from mine or quarry to point of sale, i.e. value of output at mine or quarry. (b) Incomplete; see Section I - Scope of Statistics.

TABLE 21 - MINING AND QUARRYING : VALUE OF PRODUCTION (a), 1956

(£'000)

Industry	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	A.C.T.	AUSTRALIA
<u>Metal Minings</u>									
Gold Mining	134	474	251	(b)	8,898	-	809	-	10,566
Silver-Lead Zinc Mining	27,105	-	(c)	(b)	(a)	2,773	-	-	44,522
Copper-Gold Mining	8	-	(c)	(b)	(a)	(e)	1,095	-	4,230
Tin Mining	196	-	312	-	104	865	1	-	1,478
Mineral Sands Mining	4,307	-	1,467	-	(b)	-	(b)	-	5,774
Other Metal Mining	66	27	(c)	4,011	(a)	(c)	137	-	7,629
<u>Total Metal Mining</u>	31,816	501	17,790	4,011	10,525	7,514	2,042	-	74,199
<u>Fuel Minings</u>									
Black Coal Mining	32,456	518	5,703	649	2,175	468	-	-	41,969
Brown Coal Mining	-	4,124	-	-	-	-	-	-	4,124
Oil Mining (d)	-	-	-	-	-	-	-	-	-
<u>Total Fuel Mining</u>	32,456	4,642	5,703	649	2,175	468	-	-	46,093
<u>Non-Metal (excluding Fuel) Minings</u>									
Clays (d)	717	414	105	247	223	43	-	(e)	1,749
Gypsum	127	72	-	206	9	-	-	-	414
Limestone	595	316	(a)	703	(a)	119	-	-	2,058
Salt (d)	-	(f)	(a)	(c)	(f)	-	(f)	-	514
Other Non-Metal (excluding Fuel) Mining	412	5	17	(c)	(c)	4	42	-	1,478
<u>Total Non-Metal (excl. Fuel) Mining</u>	1,851	807	345	1,986	1,016	166	42	(e)	6,213
<u>Total All Mining</u>	66,123	5,950	23,838	6,646	13,716	8,148	2,084	(e)	126,505
<u>Construction Material Quarrying (d)</u>	5,926	3,507	310	2,841	634	151	-	105	13,474
<u>TOTAL ALL MINING AND QUARRYING</u>	72,049	9,457	24,148	9,487	14,350	8,299	2,084	105	139,979

(a) Value of output at mine or quarry less cost of power, fuel, light and other materials and stores used; depreciation and maintenance costs have not been deducted. (b) Not available for publication; included with "Other Metal Mining". (c) Not available for publication.

(d) Incomplete; see Section I - Scope of Statistics. (e) Not available for publication, included with "Construction Material Quarrying".

(f) Not available.

TABLE 22 - MINING AND QUARRYING : VALUE OF PRODUCTION (a); AUSTRALIA, 1952 TO 1956

(£'000)

Industry	1952	1953	1954	1955	1956
<u>Metal Mining:</u>					
Gold Mining	9,585	10,600	10,645	10,656	10,566
Silver-Lead-Zinc Mining	30,276	23,349	30,186	40,471	44,522
Copper-Gold Mining	2,359	2,878	3,760	4,506	4,230
Tin Mining	1,802	1,555	1,558	1,654	1,478
Mineral Sands Mining	}	1,568	1,486	2,801	5,774
Other Metal Mining		6,284	6,212	6,666	7,629
<u>Total Metal Mining</u>	51,257	46,234	53,853	66,754	74,199
<u>Fuel Mining:</u>					
Black Coal Mining	44,239	42,973	44,653	43,669	41,969
Brown Coal Mining	2,910	3,266	3,534	3,929	4,124
Oil Mining (b)	27	-	-	(c) (-) 2	-
<u>Total Fuel Mining</u>	47,176	46,239	48,187	47,596	46,093
<u>Non-Metal (excluding Fuel) Mining:</u>					
Clays (b)	1,055	1,429	1,753	1,752	1,749
Gypsum	194	183	331	424	414
Limestones	1,405	1,826	1,902	1,914	2,058
Salt (b)	346	431	523	443	514
Other Non-Metal (excluding Fuel) Mining	979	989	1,110	1,236	1,478
<u>Total Non-Metal (excl. Fuel) Mining</u>	3,979	4,858	5,619	5,769	6,213
<u>Total All Mining</u>	102,412	97,331	107,659	120,119	126,505
<u>Construction Material Quarrying (b)</u>	7,259	7,544	10,428	12,389	13,474
<u>TOTAL ALL MINING AND QUARRYING</u>	109,671	104,875	118,087	132,508	139,979

(a) Value of output at mine or quarry less cost of power, fuel, light and other materials and stores used; depreciation and maintenance costs have not been deducted. (b) Incomplete; see Section I - Scope of Statistics. (c) Cost of materials used etc. exceeds value of output.

**TABLE 23 - MINING AND QUARRYING : SALARIES AND WAGES PAID, AND VALUE OF POWER, FUEL AND LIGHT, MATERIALS USED,
AND VALUE OF OUTPUT AND PRODUCTION : AUSTRALIA, 1956**
(£'000)

Industry	Salaries and Wages Paid (a) (b)	Power, Fuel and Light (b)	Stores, Other Materials (b) (c)	Total, Power, Fuel, Light, Materials (c) (d)	Value of Output (e)	Value of Production (f)
<u>Metal Mining:</u>						
Gold Mining	6,551	1,344	3,590	4,941	15,507	10,566
Silver-Lead-Zinc Mining	17,299	2,553	7,347	9,907	24,429	44,522
Copper-Gold Mining	2,098	261	2,160	2,437	6,667	4,230
Tin Mining	733	155	181	428	1,906	1,478
Mineral Sands Mining	1,644	346	935	1,281	7,055	5,774
Other Metal Mining	1,504	211	1,224	1,450	9,079	7,629
<u>Total Metal Mining</u>	29,829	4,870	15,437	20,444	94,643	74,199
<u>Fuel Mining:</u>						
Black Coal Mining	26,422	2,286	8,185	10,470	52,439	41,969
Brown Coal Mining	1,649	158	362	520	4,644	4,124
Oil Mining (g)	11	(h)	(h)	(h)	-	-
<u>Total Fuel Mining</u>	28,082	2,444	8,547	10,990	57,083	46,093
<u>Non-Metal (excluding Fuel) Mining:</u>						
Clays (g)	340	49	134	221	1,970	1,749
Gypsum	183	39	115	173	587	414
Limestone	1,001	180	876	1,069	3,127	2,058
Salt (g)	140	28	114	150	664	514
Other Non-Metal (excluding Fuel) Mining	726	96	220	328	1,806	1,478
<u>Total Non-Metal (excluding Fuel) Mining</u>	2,390	392	1,459	1,941	8,154	6,213
<u>Total All Mining</u>	60,301	7,706	25,443	33,375	159,880	126,505
<u>Construction Material Quarrying (g)</u>	2,738	511	2,145	2,966	16,440	13,474
<u>TOTAL ALL MINING AND QUARRYING</u>	63,039	8,217	27,588	36,341	176,320	139,979

- (a) Excludes drawings by working proprietors; the amounts shown are net after deductions for explosives sold to employees. (b) Excludes mines and quarries employing less than four persons. (c) Includes value of explosives sold to employees.
 (d) Includes estimates for mines and quarries employing less than four persons.
 (e) Selling value at point of sale of mine or quarry products less transport costs from mine or quarry to point of sale, i.e. value of output at mine or quarry. (f) Value of output at mine or quarry, less costs of power, fuel and light and other materials and stores used.
 (g) Incomplete; see Section I - Scope of Statistics. (h) Not available.

TABLE 24 - MINING AND QUARRYING; VALUE OF ADDITIONS AND REPLACEMENTS TO TOTAL FIXED ASSETS DURING 1956

(Note: Excludes mines and quarries employing less than four persons)

(£'000)

Industry	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	A. C. T.	AUSTRALIA
<u>Metal Mining:</u>									
Gold Mining	(a)	180	(a)	-	1,510	-	56	-	1,765
Silver-Lead-Zinc Mining	1,237	-	(a)	-	(a)	127	(a)	-	3,437
Copper-Gold Mining	3	-	(a)	-	-	(a)	715	-	1,197
Tin Mining	1	-	(a)	-	(a)	77	-	-	222
Mineral Sands Mining	1,308	-	879	-	(a)	-	(a)	-	2,223
Other Metal Mining	(a)	10	(a)	234	227	(a)	29	-	765
<u>Total Metal Mining</u>	2,564	190	3,275	234	1,802	599	945	-	9,609
<u>Fuel Mining:</u>									
Black Coal Mining	5,609	24	396	495	81	45	-	-	6,650
Brown Coal Mining	-	2,756	-	-	-	-	-	-	2,756
Oil Mining (b)	(c)	(c)	(d)	-	(d)	-	15	-	15
<u>Total Fuel Mining</u>	5,609	2,780	396	495	81	45	15	-	9,421
<u>Non-Metal (excl. Fuel) Mining:</u>									
Clays (b)	(d)	29	-	(a)	-	(a)	-	-	42
Gypsum	52	(a)	-	(a)	-	-	-	-	143
Limestone	41	123	-	(a)	(a)	(a)	-	-	201
Salt (b)	-	(d)	-	294	(d)	-	(d)	-	294
Other Non-Metal (excl. Fuel) Mining	135	(a)	-	35	(a)	-	(c)	-	1,045
<u>Total Non-Metal (excl. Fuel) Mining</u>	228	767	-	394	327	9	(c)	-	1,725
<u>Total All Mining</u>	8,401	3,737	3,671	1,123	2,210	653	960	-	20,755
<u>Construction Material Quarrying (b)</u>	(c)	(c)	(c)	417	28	29	-	182	656
<u>TOTAL ALL MINING AND QUARRYING</u>	8,401	3,737	3,671	1,540	2,238	682	960	182	21,411

(a) Not available for publication.
with "Other Non-Metal Mining".(b) Incomplete; see Section I - Scope of Statistics.
(d) Not available.

(e) Less than £500.

(c) Not available for publication; included

TABLE 25 - MINING AND QUARRYING : VALUE OF ADDITIONS AND REPLACEMENTS TO TOTAL FIXED ASSETS, AUSTRALIA, 1952 TO 1956.

(Note : Excludes mines and quarries employing less than four persons)
(£'000)

Industry	1952	1953	1954	1955	1956
<u>Metal Minings:</u>					
Gold Mining	1,916	1,388	1,810	2,165	1,765
Silver-Lead-Zinc Mining	4,232	4,152	2,932	2,386	3,437
Copper-Gold Mining	1,337	692	942	488	1,197
Tin Mining	134	529	264	689	222
Mineral Sands Mining	760	344	182	1,058	2,223
Other Metal Mining	505	999	698	1,031	765
<u>Total Metal Mining</u>	8,884	8,004	6,834	7,817	9,609
<u>Fuel Minings:</u>					
Black Coal Mining	7,364	7,383	5,967	5,190	6,650
Brown Coal Mining	739	1,512	1,667	1,300	2,756
Oil Mining (a)	-	15	374	(b)	15
<u>Total Fuel Mining</u>	8,103	8,910	8,008	6,490	9,421
<u>Non-Metal (excluding Fuel) Minings:</u>					
Clays (a)	13	32	51	62	42
Gypsum	86	38	102	152	143
Limestone	564	411	250	884	201
Salt (a)	198	66	33	359	294
Other Non-Metal (excl. Fuel) Mining	167	157	113	1,261	1,045
<u>Total Non-Metal (excl. Fuel) Mining</u>	1,028	704	549	2,718	1,725
<u>Total All Mining</u>	16,015	17,618	15,391	17,025	20,755
<u>Construction Material Quarrying (a)</u>	(c)	140	256	304	656
<u>TOTAL ALL MINING AND QUARRYING</u>	(c)	17,758	15,647	17,329	21,411

(a) Incomplete; see Section I - Scope of Statistics.

(b) Not available for publication; included with "Other Non-Metal Mining".

(c) Not available.

TABLE 26 - MINING AND QUARRIES : VALUE OF ADDITIONS AND REPLACEMENTS TO FIXED ASSETS DURING 1955 AND 1956

(Note : Excludes mines and quarries employing less than four persons)
(£'000)

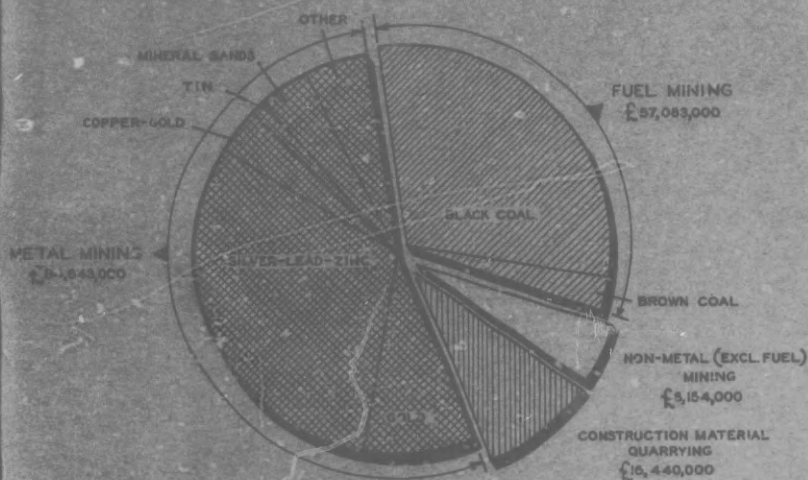
Industry	1955	1956								
	AUSTRALIA	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	N.T.	A.C.T.	AUSTRALIA
LAND AND BUILDINGS										
Metal Mining	753	210	5	426	-	202	110	166	-	1,119
Fuel Mining	507	506	77	36	185	5	11	-	-	820
Non-Metal (excluding Fuel) Mining (a)	394	1	37	(b)	183	10	(b)	-	-	231
Construction Material Quarrying (a)	3	(c)	(c)	(c)	4	1	(b)	-	70	75
TOTAL ALL MINING AND QUARRYING	1,657	717	119	462	372	218	121	166	70	2,245
PLANT AND MACHINERY										
Metal Mining	4,990	1,940	71	1,947	21	894	421	592	-	5,886
Fuel Mining	5,086	4,649	1,526	356	280	76	34	7	-	6,928
Non-Metal (excluding Fuel) Mining (a)	1,946	215	524	-	126	306	9	(b)	-	1,180
Construction Material Quarrying (a)	301	(c)	(c)	(c)	413	26	29	-	112	580
TOTAL ALL MINING AND QUARRYING	12,323	6,804	2,121	2,303	840	1,302	493	599	112	14,574
MINE DEVELOPMENT										
Metal Mining	2,074	414	114	902	213	706	68	187	-	2,604
Fuel Mining	897	454	1,177	4	30	-	(b)	8	-	1,673
Non-Metal (excluding Fuel) Mining (a)	378	12	206	-	85	11	(b)	(b)	-	314
Construction Material Quarrying (a)	-	(c)	(c)	(c)	-	1	-	-	-	1
TOTAL ALL MINING AND QUARRYING	3,349	880	1,497	906	328	718	68	195	-	4,592
TOTAL FIXED ASSETS										
Metal Mining	7,817	2,564	190	3,275	234	1,802	599	945	-	9,609
Fuel Mining	6,490	5,609	2,780	396	495	81	45	15	-	9,421
Non-Metal (excluding Fuel) Mining (a)	2,718	228	767	(b)	394	327	9	(b)	-	1,725
Construction Material Quarrying (a)	304	(c)	(c)	(c)	417	28	29	-	182	656
TOTAL ALL MINING AND QUARRYING	17,329	8,401	3,737	3,671	1,540	2,238	682	960	182	21,411

(a) Incomplete; see Section I - Scope of Statistics.

(b) Less than £500.

(c) Not available.

MINING AND QUARRYING VALUE OF OUTPUT



VALUE OF OUTPUT, 1956

£176,320,000

