

STATISTICAL BULLETIN : MINERALS AND MINERAL PRODUCTS, AUSTRALIA

JULY 1967

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Ref. no. 10.19

### 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 industry.

More detailed statistics on various aspects of the mineral industry are contained in The Australian Mineral Industry, Part II - Quarterly Statistics, which is published in conjunction with the Bureau of Mineral Resources. The most recently issued copy of this publication is Vol. 19 No. 4 June 1967 which contains detailed statistics for the December quarter 1966.

2. Sources of data. - Statistics contained in this bulletin are derived from a variety of sources and the more important of these sources are discussed below.

#### Table 1. - Mine production of principal minerals

Current statistics in this table are derived mainly from collections carried out by the Commonwealth Bureau of Mineral Resources 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 2. - Production of principal manufactured products of mineral origin

Statistics of non-ferrous metal production and refined silver are collected by the Bureau of Mineral Resources. Data on refined gold production are provided by the Reserve Bank. Other data in this table, relating to Fuels, Building Materials and Chemicals, are derived from returns collected by the Deputy Commonwealth Statisticians in the States, except the data relating to superphosphate which are collected by the Department of Primary Industry, and petroleum and products which are collected by the Department of National Development.

#### Table 3, 4 and 5. - 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.

#### Table 6 and 7. - Prices

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

#### Table 8. - Wholesale and export price indexes

Data in this table are derived from this Bureau's compilation of price indexes.

#### Table 9. - Commonwealth Government payments

Data in this table are provided by the various Departments responsible for the administration of the specified Acts.

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

4. Commodity groupings. For the convenience of users of this bulletin, commodities included in Tables 1-5 are grouped according to conventions generally accepted in the mineral industry.

5. Seasonal adjustment. A seasonally adjusted series of statistics for Portland Cement production is shown in Table 2 on page 8. In the seasonal adjustment, account has been taken of both normal seasonal factors and "trading-day" effects (arising from the varying numbers of Sundays, Mondays, Tuesdays, etc. in the month). Details of the methods used in seasonally adjusting these and other series are given in "Seasonally Adjusted Indicators 1967" issued on 18 July 1967.

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

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

- p      preliminary ; figure or series subject to revision
- r      figure or series revised since previous issue
- ..     nil or less than half the final digit shown
- n.a.   not available or not available for publication

A blank space in a column of figures means that the figure concerned is not yet available.

PRODUCTION

Table 1 shows details of mine production of the principal metallic and fuel minerals produced in Australia. The data for the non-ferrous group (except bauxite) and the precious metals group relate to the metallic contents of minerals produced, estimated on the basis of chemical assay data.

For the other metallic minerals (bauxite, the ferrous and alloy group and mineral sands) the quantities shown are the gross output.

TABLE 1. - MINE PRODUCTION OF PRINCIPAL MINERALS : AUSTRALIA

| Period                      | METALLIC MINERALS |          |          |         |              |                       |                       |
|-----------------------------|-------------------|----------|----------|---------|--------------|-----------------------|-----------------------|
|                             | Non-ferrous       |          |          |         |              | Ferrous and alloy (b) |                       |
|                             | Copper (a)        | Lead (a) | Zinc (a) | Tin (a) | Bauxite (b)  | Iron ore              | Tungsten concentrates |
|                             | - tons -          |          |          |         |              | '000 tons             | tons                  |
| Year - 1964                 | 104,050           | 374,856  | 344,600  | 3,642   | 783,900      | 5,669                 | 1,400                 |
| 1965                        | 90,388            | 362,137  | 349,231  | 3,849   | 1,167,671    | 6,695                 | 1,637                 |
| 1966                        | r109,260          | r364,932 | r369,334 | 4,838   | r1,798,261   | r11,425               | r1,805                |
| Latest 3 months             | 22,344            | 90,080   | 94,467   | 1,395   | 1,118,588    | 4,905                 | 402                   |
| Same 3 months previous year | 28,180            | 99,296   | 100,548  | 1,304   | 390,831      | 2,137                 | 384                   |
| Month - 1966 July           | r9,575            | r35,971  | r36,029  | 480     | } r454,488   | r3,553                | 528                   |
| August                      | r9,654            | r36,653  | r36,209  | 440     |              |                       |                       |
| September                   | r9,251            | r34,166  | r33,470  | 418     |              |                       |                       |
| October                     | r9,579            | r30,344  | r32,201  | 359     | } r637,694   | r3,880                | r436                  |
| November                    | r8,650            | r33,791  | r35,934  | 317     |              |                       |                       |
| December                    | r7,837            | r20,351  | r24,039  | 384     |              |                       |                       |
| 1967 January                | r7,148            | r18,691  | r20,314  | r295    | } r863,599   | 3,682                 | 403                   |
| February                    | r7,296            | r31,299  | r34,291  | r385    |              |                       |                       |
| March                       | r8,487            | r32,566  | r33,712  | r374    |              |                       |                       |
| April                       | r7,473            | r30,625  | r32,258  | 591     | } r1,118,988 | 4,905                 | 402                   |
| May                         | r7,808            | r35,754  | r39,646  | 343     |              |                       |                       |
| June                        | r6,865            | r34,624  | r35,457  | 600     |              |                       |                       |
| July                        | r7,671            | r19,702  | r19,364  | 452     |              |                       |                       |

For footnotes, see end of table, page 6

TABLE 1. - MINE PRODUCTION OF PRINCIPAL MINERALS : AUSTRALIA - continued

| Period                      | METALLIC MINERALS - continued |         |                     |                       |                     |
|-----------------------------|-------------------------------|---------|---------------------|-----------------------|---------------------|
|                             | Precious (a)                  |         | Mineral sands (b)   |                       |                     |
|                             | Gold                          | Silver  | Rutile concentrates | Ilmenite concentrates | Zircon concentrates |
|                             | - '000 f. oz -                |         | - tons -            |                       |                     |
| Year - 1964                 | 964                           | 18,427  | 182,371             | 303,628               | 184,082             |
| 1965                        | 878                           | 17,281  | 217,330             | 441,034               | 226,863             |
| 1966                        | r915                          | r18,876 | r247,500            | r513,015              | r244,159            |
| Latest 3 months             | 209                           | 4,873   | 68,744              | 132,177               | 75,818              |
| Same 3 months previous year | 248                           | 5,054   | 60,388              | 129,550               | 65,245              |
| Month - 1966 July           | 73                            | 1,781   | ) r62,371           | r128,078              | r61,872             |
| August                      | 83                            | 1,736   |                     |                       |                     |
| September                   | 69                            | 1,695   |                     |                       |                     |
| October                     | 73                            | 1,458   | r22,955             | r41,971               | r21,562             |
| November                    | 68                            | 1,700   | r23,052             | r39,439               | r22,002             |
| December                    | 78                            | 1,204   | r20,781             | r38,328               | r19,082             |
| 1967 January                | 69                            | r1,064  | r21,355             | r40,624               | r19,386             |
| February                    | 61                            | r1,512  | r21,345             | r42,324               | r20,712             |
| March                       | 63                            | r1,610  | r22,123             | r45,248               | r23,096             |
| April                       | 74                            | r1,536  | r22,548             | r43,723               | r24,220             |
| May                         | 66                            | 1,760   | 24,263              | 44,312                | 26,501              |
| June                        | 75                            | 1,832   | 21,933              | 44,142                | 25,097              |
| July                        | 69                            | 1,281   |                     |                       |                     |

| Period                      | FUEL MINERALS |          |         |            |                 |             |
|-----------------------------|---------------|----------|---------|------------|-----------------|-------------|
|                             | Black coal    |          |         | Brown coal | Crude petroleum | Natural gas |
|                             | Under-ground  | Open cut | Total   |            |                 |             |
|                             | - '000 tons - |          |         |            | '000 gal        | '000 cu ft  |
| Year - 1964                 | 23,564        | 3,837    | 27,401  | 19,035     | 52,157          | 106,490     |
| 1965                        | 26,876        | 4,562    | 31,439  | 20,659     | 91,676          | 143,402     |
| 1966                        | r28,084       | r5,250   | r33,334 | r21,783    | r118,533        | r142,977    |
| Latest 3 months             | 8,117         | 1,401    | 9,517   | 6,507      | n.a.            | n.a.        |
| Same 3 months previous year | 7,474         | 1,466    | 8,940   | 6,012      | n.a.            | n.a.        |
| Month - 1966 July           | r2,572        | r493     | r3,065  | r2,088     | ) r30,258       | r35,274     |
| August                      | r2,674        | r477     | r3,151  | r2,051     |                 |             |
| September                   | r2,495        | r513     | r3,008  | r1,786     |                 |             |
| October                     | r2,474        | r448     | r2,922  | r1,831     | ) r27,064       | r33,780     |
| November                    | 2,683         | r481     | r3,163  | r1,862     |                 |             |
| December                    | 2,126         | r363     | r2,490  | 1,577      |                 |             |
| 1967 January                | 1,485         | 317      | r1,803  | 1,685      | ) n.a.          | ) 39,238    |
| February                    | r2,422        | 419      | r2,841  | 1,627      |                 |             |
| March                       | r2,220        | 435      | r2,655  | 1,903      |                 |             |
| April                       | r2,431        | r367     | r2,799  | 1,800      | ) n.a.          | ) 37,473    |
| May                         | r2,928        | r494     | r3,422  | 2,008      |                 |             |
| June                        | 2,532         | 421      | 2,953   | 2,292      |                 |             |
| July                        | 2,657         | 485      | 3,142   | 2,207      | )               | (c)18,283   |

(a) Quantities shown are metallic contents of mine products based on chemical assay.

(b) Quantities shown are gross output.

(c) Monthly series available from July 1967.

Table 2 shows particulars of the production of certain important manufactured products of mineral origin. Secondary metal is excluded from the metal production statistics except in the case of ingot steel. For blister copper and lead bullion, the figures shown relate to the copper and lead content respectively.

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

| Period                         | METALS                   |                          |                   |                            |                 |                 |                |
|--------------------------------|--------------------------|--------------------------|-------------------|----------------------------|-----------------|-----------------|----------------|
|                                | Non-ferrous              |                          |                   |                            |                 |                 |                |
|                                | Refined<br>alum-<br>inum | Blister<br>copper<br>(a) | Refined<br>copper | Lead<br>bullion<br>(a) (b) | Refined<br>lead | Refined<br>zinc | Refined<br>tin |
|                                | - tons -                 |                          |                   |                            |                 |                 |                |
| Year - 1964                    | 78,744                   | 80,589                   | 79,916            | 78,304                     | 203,100         | 185,531         | 3,021          |
| 1965                           | 86,379                   | 73,414                   | 59,956            | 66,907                     | 193,306         | 198,988         | 3,179          |
| 1966                           | 90,560                   | 90,253                   | 89,960            | 74,295                     | 192,932         | 194,410         | 3,666          |
| Latest 3 months                | 23,047                   | 18,461                   | 18,589            | 27,765                     | 45,703          | 49,831          | 730            |
| Same 3 months previous<br>year | 22,302                   | 26,214                   | 23,135            | 20,684                     | 48,483          | 47,784          | 1,034          |
| Month - 1966 July              | 7,759                    | 9,017                    | 7,928             | 6,875                      | 17,151          | 17,835          | 319            |
| August                         | 7,763                    | 7,850                    | 7,456             | 7,803                      | 16,803          | 16,486          | 306            |
| September                      | 7,651                    | 7,846                    | 9,041             | 5,367                      | 18,664          | 16,289          | 357            |
| October                        | 7,846                    | 7,294                    | 7,146             | 3,328                      | 17,850          | 18,067          | 284            |
| November                       | 7,737                    | 6,375                    | 7,364             | 5,145                      | 13,707          | 16,129          | 338            |
| December                       | 7,844                    | 5,717                    | 3,413             | 5,590                      | 14,252          | 14,944          | 259            |
| 1967 January                   | 7,818                    | 5,195                    | 6,653             | 8,003                      | 16,876          | 17,489          | 147            |
| February                       | 7,358                    | 5,595                    | 4,045             | 7,792                      | 15,815          | 15,256          | 299            |
| March                          | 7,804                    | 6,330                    | 4,197             | 8,311                      | 16,780          | 17,104          | 366            |
| April                          | 7,668                    | 5,998                    | 3,420             | 8,944                      | 13,878          | 15,945          | 88             |
| May                            | 7,778                    | 6,110                    | 7,828             | 9,609                      | 17,131          | 16,680          | 213            |
| June                           | 7,601                    | 5,409                    | 5,793             | 7,472                      | 13,339          | 14,806          | 261            |
| July                           |                          | 6,942                    | 4,968             | 10,664                     | 15,233          | 18,345          | 256            |

| Period                         | METALS - continued |                 |                     |          |                     |                   |
|--------------------------------|--------------------|-----------------|---------------------|----------|---------------------|-------------------|
|                                | Ferrous            |                 |                     |          | Precious            |                   |
|                                | Pig iron           | Steel<br>ingots | Blooms<br>and slabs | Tinplate | Refined<br>gold (c) | Refined<br>silver |
|                                | - tons -           |                 |                     |          | - '000 f. oz -      |                   |
| Year - 1964                    | 3,930,107          | 4,967,744       | 4,316,128           | 204,013  | 893                 | 9,258             |
| 1965                           | 4,183,678          | 5,373,049       | 4,783,284           | 237,995  | 820                 | 8,696             |
| 1966                           | 4,666,885          | 5,796,813       | 5,023,892           | 251,761  | 789                 | 8,864             |
| Latest 3 months                | 1,311,797          | 1,608,593       | 1,381,995           | 70,472   | 175                 | 2,692             |
| Same 3 months previous<br>year | 1,199,952          | 1,489,104       | 1,266,338           | 61,729   | 180                 | 2,153             |
| Month - 1966 July              | 421,921            | 508,985         | 444,513             | 21,327   | 65                  | 621               |
| August                         | 395,572            | 480,042         | 415,953             | 19,825   | 72                  | 862               |
| September                      | 412,778            | 504,425         | 450,989             | 21,224   | 59                  | 755               |
| October                        | 433,105            | 541,407         | 464,934             | 22,695   | 56                  | 872               |
| November                       | 419,681            | 524,063         | 441,273             | 22,560   | 57                  | 723               |
| December                       | 412,835            | 515,756         | 446,063             | 22,902   | 89                  | 725               |
| 1967 January                   | 418,796            | 507,622         | 427,481             | 22,678   | 51                  | 966               |
| February                       | 355,134            | 455,704         | 419,768             | 20,936   | 53                  | 719               |
| March                          | 400,006            | 523,043         | 441,692             | 21,350   | 52                  | 764               |
| April                          | 381,765            | 461,957         | 392,855             | 19,176   | 50                  | 886               |
| May                            | 446,140            | 552,958         | 464,289             | 22,320   | 52                  | 894               |
| June                           | 427,249            | 530,104         | 449,535             | 24,621   | 70                  | 876               |
| July                           | 438,408            | 525,531         | 468,171             | 23,531   | 53                  | 922               |

(a) Metallic content. (b) Lead bullion for export. (c) Newly-won gold of Australian origin.

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

| Period                      | FUELS               |                       |                    |              |                       |                        |
|-----------------------------|---------------------|-----------------------|--------------------|--------------|-----------------------|------------------------|
|                             | Coal products       |                       | Petroleum products |              |                       |                        |
|                             | Metal-lurgical coke | Brown coal briquettes | Motor spirit       | Furnace fuel | Automotive distillate | Industrial diesel fuel |
|                             | - '000 tons -       |                       | mill. gal          |              | - '000 tons -         |                        |
| Year - 1964                 | 3,042               | 1,856                 | 1,417              | 4,904        | 1,613                 | 849                    |
| 1965                        | 3,192               | 1,903                 | 1,522              | 5,070        | 1,697                 | 912                    |
| 1966                        | 3,184               | 1,859                 | 1,622              | 5,527        | 2,019                 | 851                    |
| Latest 3 months             | 923                 | 515                   | 431                | 1,428        | 514                   | 213                    |
| Same 3 months previous year | 774                 | 504                   | 396                | 1,406        | 425                   | 223                    |
| Month - 1966 July           | 262                 | 174                   | 156                | 496          | 133                   | 93                     |
| August                      | 261                 | 174                   | 147                | 522          | 218                   | 83                     |
| September                   | 258                 | 134                   | 146                | 501          | 164                   | 87                     |
| October                     | 267                 | 172                   | 137                | 436          | 191                   | 94                     |
| November                    | 271                 | 168                   | 116                | 491          | 171                   | 81                     |
| December                    | 309                 | 112                   | 171                | 479          | 214                   | 56                     |
| 1967 January                | 304                 | 85                    | 159                | 431          | 188                   | 79                     |
| February                    | 228                 | 138                   | 136                | 515          | 189                   | 73                     |
| March                       | 308                 | 164                   | 156                | 483          | 175                   | 57                     |
| April                       | 284                 | 160                   | 156                | 463          | 188                   | 60                     |
| May                         | 311                 | 176                   | 140                | 536          | 172                   | 74                     |
| June                        | 303                 | 162                   | 141                | 405          | 164                   | 63                     |
| July                        | 309                 | 177                   | 150                | 487          | 178                   | 76                     |

| Period                      | BUILDING MATERIALS AND CHEMICALS |                         |         |                  |                                       |                |                     |
|-----------------------------|----------------------------------|-------------------------|---------|------------------|---------------------------------------|----------------|---------------------|
|                             | Building materials               |                         |         |                  |                                       | Chemicals      |                     |
|                             | Portland cement                  |                         | Bricks  | Plaster of Paris | Asbestos cement sheets - non-acoustic | Sulphuric acid | Super-phosphate (b) |
|                             | Original                         | Seasonally Adjusted (a) |         |                  |                                       |                |                     |
|                             | - '000 tons -                    |                         | million | '000 tons        | '000 sq yd                            | '000 tons      | '000 tons           |
| Year - 1964                 | 3,568                            |                         | 1,344   | 270              | n.a.                                  | 1,552          | 3,668               |
| 1965                        | 3,742                            |                         | 1,393   | 275              | n.a.                                  | 1,686          | 3,725               |
| 1966                        | 3,616                            | n.a.                    | 1,386   | 265              | n.a.                                  | 1,895          | 4,356               |
| Latest 3 months             | 1,013                            |                         | 369     | 71               | 8,243                                 | 458            | 1,026               |
| Same 3 months previous year | 950                              |                         | 362     | 69               | n.a.                                  | 484            | 1,136               |
| Month - 1966 July           | 314                              | 305                     | 120     | 22               | 2,966                                 | 156            | 304                 |
| August                      | 319                              | 300                     | 128     | 25               | 2,599                                 | 152            | 354                 |
| September                   | 315                              | 306                     | 124     | 23               | 2,738                                 | 150            | 308                 |
| October                     | 316                              | 292                     | 121     | 23               | 3,107                                 | 165            | 350                 |
| November                    | 313                              | 301                     | 126     | 26               | 3,348                                 | 157            | 367                 |
| December                    | 267                              | 289                     | 101     | 18               | 2,622                                 | 156            | 326                 |
| 1967 January                | 221                              | 291                     | 81      | 11               | 1,113                                 | 186            | 415                 |
| February                    | 290                              | 317                     | 113     | 22               | 2,933                                 | 163            | 368                 |
| March                       | 307                              | 292                     | 120     | 23               | 3,267                                 | 194            | 425                 |
| April                       | 309                              | 305                     | 117     | 20               | 2,363                                 | 177            | 391                 |
| May                         | 357                              | 329                     | 133     | 27               | 2,955                                 | 171            | 360                 |
| June                        | 320                              | 321                     | 118     | 22               | 2,535                                 | 151            | 404                 |
| July                        | 336                              | 326                     | 118     | 22               | 2,753                                 | 136            | 262                 |

(a) See Explanatory Notes, paragraph 5, page 4. (b) From June 1964 includes double and triple superphosphate and ammonium phosphate, expressed in terms of single superphosphate, i.e. 22%  $P_2O_5$  equivalent.

## OVERSEAS TRADE

In tables 3, 4 and 5 particulars are shown of overseas trade in selected minerals and mineral products. All values are expressed as \$A f.o.b. port of shipment. All statistics of metallic minerals in Table 3 are in terms of gross quantities and not in terms of metallic contents. Available data on metallic contents of minerals exported are given in Table 4.

TABLE 3. - EXPORTS OF SELECTED MINERALS AND MINERAL PRODUCTS : AUSTRALIA

| Commodity                        |           | 1965    | 1966p     | 1967p   |         |         |         |           |
|----------------------------------|-----------|---------|-----------|---------|---------|---------|---------|-----------|
|                                  |           |         |           | March   | April   | May     | June    | July      |
| METALLIC MINERALS AND METALS (a) |           |         |           |         |         |         |         |           |
| Non-ferrous -                    |           |         |           |         |         |         |         |           |
| Aluminium (b) -                  |           |         |           |         |         |         |         |           |
| Refined aluminium                | tons      | 21,207  | 16,210    | 1,274   | 1,138   | 1,169   | 1,954   | 623       |
|                                  | \$'000    | 9,017   | 7,050     | 606     | 549     | 553     | 889     | 299       |
| Copper -                         |           |         |           |         |         |         |         |           |
| Concentrates                     | tons      | 46,111  | 47,455    | ..      | r4,849  | 2,551   | ..      | 13,688    |
|                                  | \$'000    | 7,337   | 9,603     | ..      | 1,250   | 477     | ..      | 2,200     |
| Blister copper                   | tons      | 2,115   | 6,538     | 599     | 570     | 744     | 657     | 524       |
|                                  | \$'000    | 2,584   | 10,787    | 815     | 755     | 1,006   | 933     | 703       |
| Refined copper                   | tons      | 11,703  | 7,484     | 1       | ..      | 501     | 1,756   | ..        |
|                                  | \$'000    | 12,220  | 9,050     | 1       | ..      | 437     | 1,529   | ..        |
| Lead -                           |           |         |           |         |         |         |         |           |
| Concentrates                     | tons      | 108,256 | 109,134   | 5,615   | 14,063  | 14,010  | r..     | (c) 5,296 |
|                                  | \$'000    | 20,829  | 19,369    | 1,006   | 2,660   | 2,721   | r..     | (a) 1,239 |
| Lead bullion                     | tons      | 69,286  | 79,534    | 9,101   | 3,487   | 12,807  | 7,222   | 10,001    |
|                                  | \$'000    | 21,252  | 21,901    | 2,272   | 816     | 3,304   | 1,894   | 2,830     |
| Refined lead                     | tons      | 156,545 | 159,465   | 7,693   | 14,836  | 13,050  | 8,895   | 14,723    |
|                                  | \$'000    | 43,502  | 37,770    | 1,569   | 2,963   | 2,808   | 1,736   | 3,054     |
| Zinc -                           |           |         |           |         |         |         |         |           |
| Concentrates                     | tons      | 212,946 | 226,561   | r34,669 | 25,669  | r11,009 | r32,761 | 36,576    |
|                                  | \$'000    | 14,328  | 15,442    | 2,494   | 1,842   | r793    | r2,154  | 2,487     |
| Refined zinc                     | tons      | 87,051  | 119,989   | 9,085   | 3,160   | 13,639  | 6,287   | 7,832     |
|                                  | \$'000    | 24,205  | 30,886    | 2,283   | 769     | 3,413   | 1,570   | 1,891     |
| Tin -                            |           |         |           |         |         |         |         |           |
| Concentrates                     | tons      | 1,642   | 2,605     | 229     | 259     | 172     | 154     | 167       |
|                                  | \$'000    | 1,870   | 3,574     | 340     | 405     | 300     | 255     | 255       |
| Ferrous and alloy -              |           |         |           |         |         |         |         |           |
| Iron -                           |           |         |           |         |         |         |         |           |
| Iron ore                         | tons      | 149,824 | 2,011,499 | 579,502 | 639,626 | 590,899 | 763,230 | 656,391   |
|                                  | \$'000    | 1,239   | 16,885    | 5,158   | 5,445   | 4,896   | 6,417   | 5,560     |
| Pig iron                         | tons      | 45,154  | 95,590    | 13,478  | 7,132   | 11,279  | 13,666  | 8,256     |
|                                  | \$'000    | 2,174   | 3,870     | 561     | 319     | 482     | 578     | 335       |
| Steel ingots, blooms (d)         | tons      | 10,519  | 347,896   | 40,816  | 27,394  | 53,373  | 23,763  | 45,232    |
|                                  | \$'000    | 605     | 19,789    | 2,546   | 1,613   | 3,189   | 1,298   | 2,822     |
| Tungsten -                       |           |         |           |         |         |         |         |           |
| Scheelite                        | tons      | 1,495   | 1,295     | 141     | 50      | 165     | r105    | 226       |
| concentrates                     | \$'000    | 2,035   | 2,842     | 397     | 138     | 439     | 241     | 608       |
| Wolfram                          | tons      | 417     | 520       | 39      | 10      | 42      | 22      | 36        |
| concentrates                     | \$'000    | 803     | 1,261     | 92      | 30      | 120     | 65      | 108       |
| Precious -                       |           |         |           |         |         |         |         |           |
| Refined gold                     | '000 f.oz | 745     | 753       | 45      | r65     | r33     | r80     | 69        |
|                                  | \$'000    | 23,265  | 23,583    | 1,423   | r2,037  | r1,035  | r2,518  | 2,127     |
| Refined silver                   | '000 f.oz | 388     | 340       | 39      | 1,033   | 600     | 331     | 119       |
|                                  | \$'000    | 432     | 404       | 46      | 1,187   | 695     | 427     | 175       |
| Mineral sands -                  |           |         |           |         |         |         |         |           |
| Titanium -                       |           |         |           |         |         |         |         |           |
| Rutile                           | tons      | 239,454 | 231,289   | 8,721   | 25,700  | r30,685 | 23,409  | 10,863    |
| concentrates                     | \$'000    | 17,134  | 17,844    | 694     | 1,919   | r2,141  | 1,763   | 900       |
| Ilmenite                         | tons      | 360,719 | 356,462   | 45,171  | 4,100   | 23,086  | 50,835  | 47,369    |
| concentrates                     | \$'000    | 3,476   | 3,721     | 471     | 39      | 210     | 551     | 450       |
| Zirconium -                      |           |         |           |         |         |         |         |           |
| Zircon                           | tons      | 216,661 | 210,428   | 17,642  | 33,233  | 17,771  | 19,186  | 11,573    |
| concentrates                     | \$'000    | 6,816   | 8,978     | 780     | 1,400   | 800     | 940     | 491       |

## FUEL MINERALS

|            |           |        |        |       |       |       |       |       |
|------------|-----------|--------|--------|-------|-------|-------|-------|-------|
| Black coal | '000 tons | 7,156  | 8,326  | 624   | 723   | 683   | 1,015 | 731   |
|            | \$'000    | 60,661 | 65,626 | 5,097 | 5,956 | 5,689 | 8,421 | 6,204 |

- (a) Quantities shown for metallic minerals are gross quantities not metallic contents.  
 (b) In addition to refined aluminium, significant quantities of alumina and bauxite are exported but details are not available for publication. (c) Includes lead-zinc middlings. (d) Includes billets and coils for re-rolling.



Table 4 shows details for selected metals of the estimated metallic contents of ores and concentrates exported, based on chemical assay data. The metallic contents of intermediate metallurgical products and slags and residues are excluded from this table.

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

| Particulars            | Estimated metallic contents |        |                 |       |                |           |           |
|------------------------|-----------------------------|--------|-----------------|-------|----------------|-----------|-----------|
|                        | Copper                      | Lead   | Zinc            | Tin   | Tungstic oxide | Gold      | Silver    |
|                        | - tons -                    |        |                 |       |                | - f. oz - |           |
| Year - 1964            | 14,109                      | 74,653 | 123,845         | 252   | 1,333          | 47,361    | 2,894,575 |
| 1965                   | 10,971                      | 77,083 | 111,573         | 634   | 1,327          | 49,844    | 2,731,213 |
| 1966p                  | 11,710                      | 72,200 | 110,166         | 1,276 | 1,240          | 47,195    | 2,590,259 |
| 1967p - June Quarter   | 2,211                       | 20,744 | 37,328<br>3,654 | 322   | 271            | 12,706    | 666,126   |
| April                  | 1,515                       | 10,015 | 13,893          | 146   | 41             | 8,498     | 324,984   |
| May                    | 696                         | 10,512 | 15,725          | 90    | 143            | 4,208     | 333,823   |
| June                   | ..                          | 217    | 16,925          | 86    | 87             | ..        | 7,119     |
| June 1967p             |                             |        |                 |       |                |           |           |
| Zinc concentrates      | ..                          | 217    | 16,925          | ..    | ..             | ..        | 7,319     |
| Tin concentrates       | ..                          | ..     | ..              | 86    | ..             | ..        | ..        |
| Wolfram concentrates   | ..                          | ..     | ..              | ..    | 16             | ..        | ..        |
| Scheelite concentrates | ..                          | ..     | ..              | ..    | 71             | ..        | ..        |
| <b>TOTAL</b>           | ..                          | 217    | 16,925          | 86    | 87             | ..        | 7,319     |

(a) Details of metallic contents for July 1967 for which quantities and values are shown in Table 3 are not yet available.

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

| Commodity                     |            | 1965    | 1966p   | 1967p  |        |        |        |        |
|-------------------------------|------------|---------|---------|--------|--------|--------|--------|--------|
|                               |            |         |         | March  | April  | May    | June   | July   |
| METALS                        |            |         |         |        |        |        |        |        |
| Refined tin                   | tons       | 1,582   | 203     | 260    | 52     | 15     | 47     | 12     |
|                               | \$'000     | 5,259   | 661     | 774    | 156    | 46     | 141    | 36     |
| Nickel - pigs, anodes<br>etc. | tons       | 1,661   | 973     | 72     | 156    | 115    | 190    | 97     |
|                               | \$'000     | 2,691   | 1,585   | 130    | 287    | 273    | 447    | 215    |
| Ferro-alloys                  | tons       | 32,587  | 20,007  | 1,192  | 1,809  | 3,956  | 832    | 1,595  |
|                               | \$'000     | 6,909   | 4,495   | 208    | 374    | 952    | 282    | 385    |
| FUEL MINERALS                 |            |         |         |        |        |        |        |        |
| Crude petroleum (a)           | mill.gal   | 4,299   | 4,616   | 381    | 531    | 402    | 401    | 329    |
|                               | \$'000     | 196,242 | 201,922 | 15,963 | 22,225 | 17,326 | 16,964 | 14,026 |
| NON-METALLIC MINERALS         |            |         |         |        |        |        |        |        |
| Asbestos                      | short tons | 51,719  | 55,152  | 2,999  | 2,050  | 3,164  | 6,175  | 5,437  |
|                               | \$'000     | 5,859   | 6,437   | 415    | 300    | 359    | 751    | 591    |
| Phosphate rock                | '000 tons  | 2,527   | 3,286   | 209    | 277    | 192    | 225    | 261    |
|                               | \$'000     | 17,505  | 27,479  | 2,153  | 2,407  | 1,710  | 2,060  | 2,519  |
| Sulphur                       | tons       | 387,869 | 434,045 | 63,694 | 11,529 | 69,413 | 27,995 | 27,663 |
|                               | \$'000     | 7,496   | 11,930  | 2,035  | 412    | 2,348  | 902    | 926    |
| Industrial diamonds           | carats     | 408,287 | 445,616 | 27,121 | 62,439 | 54,471 | 43,747 | 38,763 |
|                               | \$'000     | 1,309   | 1,696   | 109    | 208    | 192    | 167    | 165    |
| Potassium fertilisers         | tons       | 101,486 | 90,266  | 9,601  | 4,150  | 85     | 226    | 14,690 |
|                               | \$'000     | 3,380   | 2,968   | 314    | 137    | 4      | 9      | 504    |

(a) Includes enriched crudes and other refinery feedstock.

## PRICES

In Tables 6 and 7 prices are shown for selected metals and minerals in Australia and overseas markets.

TABLE 6. - AVERAGE DAILY PRICES OF SELECTED METALS (a) : AUSTRALIAN AND OVERSEAS MARKETS

| Metal             | Copper  |          |          | Lead    |          |         | Zinc    |          |          |         |
|-------------------|---------|----------|----------|---------|----------|---------|---------|----------|----------|---------|
| Market            | Aust.   | L.M.E.   | Prod.    | Aust.   | L.M.E.   | U.S.A.  | Aust.   | L.M.E.   | Prod.    | U.S.A.  |
| Unit              | \$A-ton | £stg-ton | £stg-ton | \$A-ton | £stg-ton | US.c-lb | \$A-ton | £stg-ton | £stg-ton | US.c-lb |
| Price basis (b)   | 1       | 2        | 3        | 4       | 5        | 6       | 7       | 8        | 9        | 10      |
| Year - 1964       | 717.4   | 352.1    | 248.7    | 239.3   | 101.3    | 13.60   | 288.9   | 118.1    | 114.6    | 13.57   |
| 1965              | 985.1   | 468.8    | 281.9    | 281.1   | 115.0    | 16.00   | 286.0   | 112.9    | 110.0    | 14.50   |
| 1966              | 960.4   | 553.7    | n.a.     | 248.8   | 95.2     | 15.12   | 270.5   | 102.0    | 103.8    | 14.50   |
| Highest 1967      | 1150.0  | 469.5    | n.a.     | 225.0   | 86.3     | 14.00   | 266.0   | 103.9    | 102.0    | 14.40   |
| Lowest 1967       | 950.0   | 346.5    | n.a.     | 210.0   | 78.1     | 14.00   | 256.0   | 95.8     | 98.0     | 13.50   |
| Month - 1966 July | 890.0   | 568.5    | )        | ( 240.0 | 95.6     | 15.00   | 266.0   | 96.0     | 102.0    | 14.50   |
| August            | 1080.0  | 433.2    | )        | ( 240.0 | 95.8     | 15.00   | 266.0   | 96.2     | 102.0    | 14.50   |
| September         | 950.0   | 408.9    | )        | ( 240.0 | 91.6     | 15.00   | 266.0   | 98.2     | 102.0    | 14.50   |
| October           | 1092.9  | 462.2    | )        | ( 225.0 | 84.8     | 14.29   | 266.0   | 100.2    | 102.0    | 14.50   |
| November          | 1150.0  | 471.9    | )        | ( 225.0 | 80.8     | 14.00   | 266.0   | 104.6    | 102.0    | 14.50   |
| December          | 1150.0  | 440.3    | )        | ( 225.0 | 81.4     | 14.00   | 266.0   | 103.6    | 102.0    | 14.50   |
| 1967 January      | 1150.0  | 450.8    | )        | ( 225.0 | 79.9     | 14.00   | 266.0   | 101.4    | 102.0    | 14.50   |
| February          | 1150.0  | 412.4    | )        | ( 225.0 | 80.5     | 14.00   | 266.0   | 102.4    | 102.0    | 14.50   |
| March             | 1097.6  | 398.1    | )        | ( 225.0 | 82.9     | 14.00   | 266.0   | 101.4    | 102.0    | 14.50   |
| April             | 970.0   | 360.6    | )        | ( 225.0 | 82.2     | 14.00   | 266.0   | 98.7     | 102.0    | 14.50   |
| May               | 950.0   | 375.4    | )        | ( 225.0 | 82.9     | 14.00   | 266.0   | 99.9     | 102.0    | 13.67   |
| June              | 950.0   | 368.1    | )        | ( 225.0 | 82.8     | 14.00   | 262.8   | 99.6     | 101.0    | 13.60   |
| July              | 950.0   | 361.6    | )        | ( 210.0 | 83.9     | 14.00   | 256.0   | 97.0     | 98.0     | 13.50   |

| Metal             | Aluminium |         | Tin     |          |             | Nickel   | Gold     |           | Silver     |
|-------------------|-----------|---------|---------|----------|-------------|----------|----------|-----------|------------|
| Market            | Aust.     | U.S.A.  | Aust.   | L.M.E.   | Straits     | U.K.     | Aust.    | U.K.      | U.K.       |
| Unit              | \$A-ton   | US.c-lb | \$A-ton | £stg-ton | \$Mal-nical | £stg-ton | \$A-f.oz | £stg-f.oz | d.stg-f.oz |
| Price basis (b)   | 11        | 12      | 13      | 14       | 15          | 16       | 17       | 18        | 19         |
| Year - 1964       | 502.0     | 23.7    | 3194.0  | 1239.4   | 619.4       | 642      | 31.25    | 12.57     | 111.9      |
| 1965              | 516.2     | 24.5    | 3628.9  | 1412.7   | 702.8       | 642      | 31.25    | 12.56     | 111.6      |
| 1966              | 520.0     | 24.5    | 3869.1  | 1295.8   | 645.3       | 642      | 31.25    | 12.59     | 111.8      |
| Highest 1967      | 520.0     | 25.0    | 3270.0  | 1228.8   | 632.5       | 702      | 31.25    | 12.63     | 161.0      |
| Lowest 1967       | 520.0     | 24.8    | 3114.0  | 1195.5   | 599.0       | 702      | 31.25    | 12.56     | 111.5      |
| Month - 1966 July | 520.0     | 24.5    | 3287.3  | 1275.5   | 632.6       | 642      | 31.25    | 12.61     | 112.1      |
| August            | 520.0     | 24.5    | 3216.7  | 1244.0   | 619.0       | 642      | 31.25    | 12.61     | 112.1      |
| September         | 520.0     | 24.5    | 3157.6  | 1225.8   | 605.9       | 642      | 31.25    | 12.61     | 112.1      |
| October           | 520.0     | 24.5    | 3161.4  | 1219.8   | 608.2       | 642      | 31.25    | 12.59     | 111.9      |
| November          | 520.0     | 24.5    | 3151.6  | 1204.3   | 606.4       | 702      | 31.25    | 12.60     | 111.9      |
| December          | 520.0     | 24.5    | 3143.5  | 1210.0   | 604.5       | 702      | 31.25    | 12.61     | 112.0      |
| 1967 January      | 520.0     | 24.8    | 3122.7  | 1198.5   | 600.4       | 702      | 31.25    | 12.61     | 111.9      |
| February          | 520.0     | 25.0    | 3131.2  | 1201.1   | 603.2       | 702      | 31.25    | 12.59     | 111.8      |
| March             | 520.0     | 25.0    | 3125.6  | 1203.8   | 602.0       | 702      | 31.25    | 12.57     | 111.7      |
| April             | 520.0     | 25.0    | 3132.3  | 1216.2   | 604.3       | 702      | 31.25    | 12.57     | 111.5      |
| May               | 520.0     | 25.0    | 3129.3  | 1218.7   | 604.1       | 702      | 31.25    | 12.58     | 118.8      |
| June              | 520.0     | 25.0    | 3160.5  | 1221.9   | 609.3       | 702      | 31.25    | 12.60     | 145.3      |
| July              | 520.0     | 25.0    | 3155.0  | 1220.2   | 609.3       | 702      | 31.25    | 12.62     | 150.9      |

(a) Where a daily market does not actually exist for a commodity, daily prices have been imputed from price data which are available. (b) The numerals in the "Price basis" column are reference numbers which relate to detailed price specifications set out in Appendix A. (c) Price quotations discontinued due to multiplicity of producer prices from April 1966 onwards.

TABLE 7. - PRICES OF SELECTED ORES AND CONCENTRATES (a) : AUSTRALIAN AND OVERSEAS MARKETS

| Mineral           | Tin            |                 | Wolfram     |              | Rutile      |              | Ilmenite    |              | Zircon      |              |
|-------------------|----------------|-----------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|
| Market            | Aust.          | U.K.            | Aust.       | U.K.         | Aust.       | U.K.         | Aust.       | U.K.         | Aust.       | U.K.         |
| Unit              | \$A-<br>l.t.u. | £stg-<br>l.t.u. | \$A-<br>ton | £stg-<br>ton | \$A-<br>ton | £stg-<br>ton | \$A-<br>ton | £stg-<br>ton | \$A-<br>ton | £stg-<br>ton |
| Price basis (b)   | 20             | 21              | 22          | 23           | 24          | 25           | 26          | 27           |             |              |
| Year - 1964       | 23.00          | 5.35- 5.60      | 78-82       | 37-38        | 8           | 7-7.25       | 24          | 16-17        |             |              |
| 1965              | 27.86          | 10.38-10.88     | 78-82       | 37-38        | 8-10        | 7.5-7.25     | 34-36       | 20-22        |             |              |
| 1966              | 29.07          | 14.41-15.21     | 92-96       | 43.68-45.04  | 8-10        | 7-7.25       | 49-54       | 27-28        |             |              |
| Highest 1967      | 27.43          | 18.25-18.88     | 92-96       | 43.75-45.00  | 9-10        | 7-7.25       | 47-51       | 25-27        |             |              |
| Lowest 1967       | 26.74          | 16.25-17.00     | 92-96       | 43.00-43.75  | 8-10        | 7-7.25       | 46-50       | 25-26        |             |              |
| Month - 1966 July | 28.53          | 13.00-14.00     | 92-96       | 44.25-45.50  | 8-10        | 7-7.25       | 50-54       | 27-28        |             |              |
| August            | 28.22          | 12.75-14.00     | 92-96       | 43.75-45.00  | 8-10        | 7-7.25       | 50-54       | 27-28        |             |              |
| September         | 26.97          | 13.50-14.25     | 92-96       | 43.75-45.00  | 8-10        | 7-7.25       | 50-54       | 27-28        |             |              |
| October           | 26.93          | 14.88-15.38     | 92-96       | 43.75-45.00  | 8-10        | 7-7.25       | 47-51       | 25-27        |             |              |
| November          | 27.20          | 15.00-15.93     | 92-96       | 43.75-45.00  | 8-10        | 7-7.25       | 47-51       | 25-27        |             |              |
| December          | 27.03          | 14.50-15.50     | 92-96       | 43.75-45.00  | 8-10        | 7-7.25       | 47-51       | 25-27        |             |              |
| 1967 January      | 26.88          | 16.50-17.00     | 92-96       | 43.75-45.00  | 8-10        | 7-7.25       | 47-51       | 25-27        |             |              |
| February          | 26.83          | 17.63-18.13     | 92-96       | 43.75-45.00  | 8-10        | 7-7.25       | 47-51       | 25-27        |             |              |
| March             | 27.04          | 17.63-18.13     | 92-96       | 43.75-45.00  | 8-10        | 7-7.25       | 46-50       | 25-26        |             |              |
| April             | 26.84          | 16.50-17.50     | 92-96       | 43.75-45.00  | 9-10        | 7-7.25       | 46-50       | 25-26        |             |              |
| May               | 26.95          | 16.25-17.00     | 92-96       | 43.75-45.00  | 9-10        | 7-7.25       | 46-50       | 25-26        |             |              |
| June              | 27.07          | 17.75-18.25     | 92-96       | 43.75-45.00  | 9-10        | 7-7.25       | 46-50       | 25-26        |             |              |
| July              | 27.25          | 18.25-18.88     | 92-96       | 43.00-43.75  | 9-10        | 7-7.25       | 46-50       | 25-26        |             |              |

(a) Prices refer to the first trading day of the period indicated except for quotations of lowest and highest prices. (b) See footnote (b) to Table 6.

Price indexes relevant to the Australian mineral industry are shown in Table 8. Brief notes on these indexes are given in Appendix B.

TABLE 8. - WHOLESALE AND EXPORT PRICE INDEXES : AUSTRALIA

| Period            | Wholesale Price (Basic Materials and Foodstuffs) Index<br>(Base : Average of three years ended June 1939 = 100) |        |                       | Export Price Index<br>(Base : Year 1959-60 = 100) |      |            |
|-------------------|-----------------------------------------------------------------------------------------------------------------|--------|-----------------------|---------------------------------------------------|------|------------|
|                   | Metals and coal                                                                                                 | Metals | Total basic materials | Metals and coal                                   | Gold | All groups |
| Year - 1964       | 384                                                                                                             | 455    | 342                   | 114                                               | 100  | 112        |
| 1965              | 394                                                                                                             | 485    | 349                   | 122                                               | 101  | 103        |
| 1966              | 392                                                                                                             | 484    | 361                   | 122                                               | 101  | 108        |
| Month - 1966 July | 389                                                                                                             | 472    | 360                   | 122                                               | 101  | p110       |
| August            | 395                                                                                                             | 493    | 364                   | 122                                               | 101  | p110       |
| September         | 396                                                                                                             | 496    | 363                   | 117                                               | 101  | p107       |
| October           | 395                                                                                                             | 492    | 362                   | 116                                               | 101  | p104       |
| November          | 397                                                                                                             | 498    | 362                   | 116                                               | 101  | p104       |
| December          | 398                                                                                                             | 501    | 363                   | 116                                               | 101  | p104       |
| 1967 January      | 400                                                                                                             | 501    | 363                   | 114                                               | 101  | p103       |
| February          | 400                                                                                                             | 501    | 362                   | 115                                               | 101  | p105       |
| March             | 398                                                                                                             | 501    | 362                   | 116                                               | 101  | p103       |
| April             | 397                                                                                                             | 499    | 361                   | 115                                               | 101  | p103       |
| May               | p395                                                                                                            | 492    | p361                  | 113                                               | 101  | p104       |
| June              | p395                                                                                                            | 492    | p358                  | 116                                               | 101  | p103       |
| July              | p394                                                                                                            | 490    | p358                  | 116                                               | 101  | p102       |

GOVERNMENT PAYMENTS

Details of Commonwealth Government assistance to the mineral industry are given on pages 1020-5 of Official Year Book No. 52. Table 9 below shows payments by the Commonwealth Government under specified Acts of Parliament to mining and mineral processing industries in Australia.

TABLE 9 - COMMONWEALTH GOVERNMENT PAYMENTS TO THE MINERAL INDUSTRY : AUSTRALIA  
(£'000)

| Period                         | Petroleum<br>exploration | Gold<br>mining | Copper<br>mining | Pyrites<br>mining | Sulphuric<br>acid<br>production | Phosphate<br>fertiliser<br>production |
|--------------------------------|--------------------------|----------------|------------------|-------------------|---------------------------------|---------------------------------------|
|                                | (a)                      | (b)            | (c)              | (d)               | (e)                             | (f)                                   |
| Year - 1964                    | 9,122                    | 1,382          | 1,066            | 1,321             | 2,047                           | 22,773                                |
| 1965                           | 10,413                   | 1,985          | 5                | 1,114             | 2,139                           | 22,005                                |
| 1966                           | 10,155                   | 3,759          | 1                | 288               | 1,398                           | 25,618                                |
| Latest 3 months                | 5,289                    | 1,265          | ..               | ..                | 562                             | 6,376                                 |
| Same 3 months previous<br>year | 4,767                    | 528            | ..               | 43                | 239                             | 7,969                                 |
| Month - 1966 July              | 100                      | 114            | ..               | 6                 | 2                               | 1,186                                 |
| August                         | 224                      | 14             | ..               | 4                 | 158                             | 327                                   |
| September                      | 321                      | 806            | ..               | ..                | 213                             | 994                                   |
| October                        | 735                      | 448            | ..               | ..                | 104                             | 964                                   |
| November                       | 176                      | 393            | ..               | 32                | 124                             | 1,193                                 |
| December                       | 913                      | 713            | ..               | 15                | 76                              | 1,731                                 |
| 1967 January                   | 399                      | 92             | (g)              | 40                | 31                              | 2,747                                 |
| February                       | 230                      | 346            | ..               | 6                 | 214                             | 3,648                                 |
| March                          | 873                      | 56             | ..               | ..                | 23                              | 4,298                                 |
| April                          | 714                      | 311            | ..               | ..                | 51                              | 4,032                                 |
| May                            | 1,413                    | 438            | ..               | ..                | 267                             | 4,004                                 |
| June                           | 3,835                    | 118            | ..               | ..                | 295                             | 1,727                                 |
| July                           | 41                       | 709            | ..               | ..                | ..                              | 645                                   |

(a) Petroleum Search Subsidy Act 1959-1964. (b) Gold-Mining Industry Assistance Act 1954-1966 and Gold Mines Development Assistance Act 1962 (expired 30 June 1965).

(c) Copper Bounty Act 1958-1966. (d) Pyrites Bounty Act 1960-1965. (e) Sulphuric Acid Bounty Act 1954-1965. (f) Phosphate Fertilisers Bounty Act 1963-1966.

(g) Copper Bounty Act 1958-1966 ceased to operate from 31 December 1966.

J. P. O'NEILL  
ACTING COMMONWEALTH STATISTICIAN

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA, A.C.T. 2600 22 NOVEMBER 1967

NOTE. Inquiries concerning these statistics may be made in Canberra by telephoning 63 9111 Extension 2278 or, in each State capital, by telephoning the office of the Bureau of Census and Statistics.

APPENDIX A : PRICE BASIS (TABLES 6 AND 7)Reference  
number

1. Refined electrolytic copper, ex smelter Port Kembla; includes allowance for the following surcharges imposed by the Imported Copper Pool -
 

|                  |               |
|------------------|---------------|
| From 1 July 1964 | \$ 56 per ton |
| 1 October 1964   | \$112 per ton |
| 20 November 1964 | \$280 per ton |
| 1 January 1965   | \$448 per ton |
| 4 May 1965       | \$378 per ton |
| 2 August 1965    | \$ 56 per ton |

The surcharge was eliminated as from 1 October 1965
2. Refined electrolytic copper wirebars, London Metal Exchange (L.M.E.) warehouse, mid-day cash price, average of buyers' and sellers' quotes, London Metal Exchange.
3. Refined electrolytic copper wirebars, c.i.f. Europe, Zambian producers' price.
4. Refined soft pig lead, f.o.b. Port Pirie.
5. Refined soft pig lead, L.M.E. warehouse, mid-day cash price, average of buyers' and sellers' quotes, London Metal Exchange.
6. Refined soft pig lead, ex-warehouse, mid-day New York.
7. Zinc, good ordinary brand (g.o.b.) grade, f.o.r. Cockle Creek.
8. Zinc, g.o.b. grade, L.M.E. warehouse, mid-day cash price, average of buyers' and sellers' quotes, London Metal Exchange.
9. Zinc, g.o.b. grade, producers' base price.
10. Zinc, Prime Western, f.o.b. East St Louis.
11. Refined aluminium, 99.5%, domestic, 1-20K ingots, c.i.f. capital cities.
12. Refined aluminium, min. 99.5% domestic, delivered.
13. Refined tin, domestic, 5 ton lots, ex-works or delivered buyer's premises.
14. Refined tin, L.M.E. warehouse, mid-day cash price, average of buyers' and sellers' quotes, London Metal Exchange.
15. Refined tin, ex-works, Penang. (A picul is 133-1/3 lb).
16. Refined nickel, delivered.
17. Reserve Bank official price.
18. Refined gold, spot, London open market.
19. Refined silver, spot, London.
20. Concentrates, per long ton unit (l.t.u.) of contained tin, 70% Sn grade, delivered Sydney.
21. Concentrates, per long ton unit of  $WO_3$  content, 65%  $WO_3$  grade, standard quality, c.i.f. Europe.
22. Concentrates, 95-97%  $TiO_2$ , f.o.b. 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. nominal.
27. Concentrates, 66-67%  $ZrO_2$ , c.i.f. Europe.

NOTE: \$A1 is equivalent to \$US1.12  
 Estg1 is equivalent to \$A2.14; prior to 18 November 1967 \$A2.50  
 \$A1 is equivalent to \$Mal. 3.4

#### APPENDIX B : PRICE INDEXES (TABLE 8)

##### 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 the latest issue of the Labour Report published by this Bureau (No. 51, 1964 - See 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 groups 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. 52, 1966 page 342.