COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

BULLETIN No. 81

# Australian Mineral Industry: Production and Trade, 1842-1964

COMPILED AND EDITED

BY

Z. KALIX, L. M. FRASER, AND R. I. RAWSON

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COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT

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# FOREWORD

From time to time the Bureau of Mineral Resources, Geology and Geophysics has issued short informative publications in its Summary Report series on some 43 individual minerals or groups of minerals which were of significance in the Australian scene.

As the relative importance of minerals changed and new developments took place an attempt was made to keep the Summary Reports abreast of the times by printing new editions; but rapidly changing economic and marketing conditions made this increasingly difficult. However, the popularity of the Summary Report series emphasized the need that existed, both inside and outside of Australia, for the publication of information of the type contained in the Reports. A description of the various mineral deposits, including notes on the geology of the more important, has been published in *Bulletin 72*. The value of the statistical information contained in the production and trade sections of the Summary Reports was a major contributing factor leading to the compilation of this compendium. Other publications of the Bureau (the Quarterly and Annual Review of the Australian Mineral Industry) deal with current economic and marketing details of the industry.

The preparation of this volume extended over a period of five years. In May, 1960 the late Mr. L. M. Fraser, formerly Statistical Officer (Mining) of the Commonwealth Bureau of Census and Statistics, was commissioned to undertake the work. which he had completed on a nation-wide and State-wide basis by the middle of 1961, Shortage of staff in the Bureau of Mineral Resources meant that editing of this compilation could not be commenced for some time, and in 1962 it was decided to extend the coverage to include a complete dissection of production by individual mines, mining fields, or districts, as might be most readily done. This work, involving an extension of the material to almost double its existing length, was undertaken by Dr. Z. Kalix who also revised and brought up to date the information already collected. In late 1964 Dr. Kalix was joined in this work by Miss R. I. Rawson, who later prepared the manuscript for printing. Mr. Fraser died in October 1963 before the work to which he had contributed so extensively could be published.

J. M. RAYNER,
*Director.*

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# INTRODUCTION

The object of this publication is to present statistical information which may be utilized in conjunction with the Australian mineral deposits described in *Bulletin No. 72.*

The minerals and metals dealt with are arranged in alphabetical order. As far as possible the ore minerals are described under the name of the metal, but there are some exceptions to this rule.

All tonnages are in long tons (2,240 lb.) unless otherwise stated.

Statistics of Australian mine production are compiled mainly from data supplied by the State Departments of Mines, supplemented in places by other information made available to the Bureau of Mineral Resources. Such additional data are obtained from producers unless otherwise stated. The figures thus derived are more detailed than those of the Commonwealth Statistician's mine production statistics—a series begun in 1952, and based also on information from the Mines Departments with some adjustment. Because of the difference in sources drawn upon and the degree of supplementary information employed, the two sets of figures do not agree in a few places.

Import data shown represent full imports. The values of imports prior to 15th November, 1947 were recorded in "British currency values f.o.b." and are so given in this *Bulletin*; as from that date, quoted values of all imports represent the f.o.b. values converted to Australian currency at the current rate of exchange on the day of import of the goods, and are as they appear in the *Oversea Trade Bulletin*. "£" refers to £Australian, except where £ sterling is quoted in the same context when "£A" is used to avoid confusion.

Australia changed to decimal currency on 14th February, 1966. Values expressed in £ (or£A) in this *Bulletin* should be multiplied by 2 to obtain values in $ (Australian). $1 = 10/- (Aust.) [= 8/- (stg.) = $1·12 (U.S.) approx.].

The value of exports includes the cost of containers and is the f.o.b. value as quoted in the *Oversea Trade Bulletin.*

Statistics of exports and imports from 1948 are in general compiled from data supplied by the Commonwealth Bureau of Census and Statistics, and checked in the Mineral Economics Section of the Bureau of Mineral Resources. However, there are some exceptions to this rule.

ABBREVIATIONS USED IN ALL TABLES:

| | | | |
|---|---|---|---|
| cons | .. Concentrates | n.e.i. | .. Not elsewhere included |
| *e.* .. | .. Estimated | n.r.s. | .. Not recorded separately |
| *i.* .. | .. Incomplete | — .. | .. None |
| n.a. | .. Not available | † .. | .. Less than half the unit of quantity. |
| n.a.p. | .. Not available for publication | | |

# ABRASIVES


Flint and Grinding Pebbles Production—Australia .. .. .. .. 2

Emery Production—Australia .. .. .. .. .. .. .. 3

Garnet Sand Production (Despatches)—Australia .. .. .. .. 3

Corundum Production—Australia—A. Crystal .. .. .. .. .. 4

Corundum Production—Australia—B. Boulder .. .. .. .. 5

Natural Abrasives—Exports—Australia .. .. .. .. .. 5

Natural Abrasives—Imports—Australia .. .. .. .. .. .. 6

Natural Abrasives—('40–41/60–61)—Australia .. .. .. .. .. 7

Siliceous Abrasives Production (as recorded)—New South Wales .. .. 7

Diamond Production—New South Wales .. .. .. .. .. 8

## FLINT AND GRINDING PEBBLES PRODUCTION—AUSTRALIA

| Year | Flint Pebbles, S.A. | Grinding Pebbles, N.S.W. | Beach Pebbles, Tas. |
|---|---|---|---|
| | tons | tons | tons |
| 1911 | 458 | — | — |
| 1912 | 120 | — | — |
| 1913 | 514 | — | — |
| 1914 | 270 | — | — |
| 1915 | 385 | — | — |
| 1916 | 158 | — | — |
| 1917 | 1,217 | — | — |
| 1918 | 2,816 | — | — |
| 1919 | 1,243 | — | — |
| 1920 | 423 | — | — |
| 1921 | 426 | — | — |
| 1922 | 741 | — | — |
| 1923 | 470 | — | — |
| 1924 | 390 | — | — |
| 1925 | 101 | — | — |
| 1926 | 116 | — | — |
| 1927 | 79 | — | — |
| 1928 | 3 | — | — |
| 1929 | 13 | — | — |
| 1930 | 15 | — | — |
| 1931 | 158 | — | — |
| 1932 | 154 | — | — |
| 1933 | 233 | — | — |
| 1934 | 299 | — | — |
| 1935 | 373 | — | — |
| 1936 | 72 | — | — |
| 1937 | 168 | — | — |
| 1938 | 106 | — | — |
| 1939 | 102 | — | — |
| 1940 | 76 | — | — |
| 1941 | 74 | — | — |
| 1942 | 185 | — | — |
| 1943 | 316 | — | — |
| 1944 | 497 | — | — |
| 1945 | 396 | — | — |
| 1946 | 356 | — | — |
| 1947 | 305 | — | — |
| 1948 | 413 | — | — |
| 1949 | 279 | — | 441 |
| 1950 | 306 | 45 | 493 |
| 1951 | 396 | 281 | 206 |
| 1952 | 187 | 111 | 215 |
| 1953 | 70 | 49 | 488 |
| 1954 | 117 | 119 | 388 |
| 1955 | 84 | 164 | 543 |
| 1956 | 33 | 131 | 534 |
| 1957 | 18 | 121 | 608 |
| 1958 | 103 | 121 | 746 |
| 1959 | 136 | 130 | 634 |
| 1960 | 71 | 85 | 515 |
| 1961 | 85 | 79 | 453 |
| 1962 | 75 | 116 | 375 |
| 1963 | 55 | 32 | 518 |
| 1964 | 94 | 12 | 727 |
| Total | 16,350 | 1,596 | 7,884 |

# ABRASIVES

## EMERY PRODUCTION—AUSTRALIA

| Year | Crookwell, N.S.W. | Richenda R., W.A. | Broome, W.A. | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1926 | 51 | — | — | 51 |
| 1927-34 | — | — | — | — |
| 1935 | 10 | — | — | 10 |
| 1936 | — | — | — | — |
| 1937 | 10 | — | — | 10 |
| 1938–41 | — | — | — | — |
| 1942 | [a]100 | 13 | — | 113 |
| 1943 | — | — | — | — |
| 1944 | — | — | — | — |
| 1945 | 10 | — | — | 10 |
| 1946–54 | — | — | — | — |
| 1955 | — | — | 8 | 8 |
| 1956–64 | — | — | — | — |
| Total | 181 | 13 | 8 | 202 |

[a]Does not appear on official records.

## GARNET SAND PRODUCTION (DESPATCHES)—AUSTRALIA

| Year | Queensland | New South Wales | Total |
|---|---|---|---|
| | tons | tons | tons |
| 1948 | 9 | — | 9 |
| 1949 | — | — | — |
| 1950 | — | 5 | 5 |
| 1951 | 22 | — | 22 |
| 1952 | 70 | — | 70 |
| 1953 | 35 | — | 35 |
| 1954–57 | — | — | — |
| 1958 | 36 | — | 36 |
| 1959 | 48 | — | 48 |
| 1960 | 97 | — | 97 |
| 1961 | 63 | — | 63 |
| 1962 | 76 | — | 76 |
| 1963 | 80 | — | 80 |
| 1964 | 70 | — | 70 |
| Total | 606 | 5 | 611 |

## CORUNDUM PRODUCTION—AUSTRALIA

*A. Crystal*

| Year | Anakie, Queensland | Inverell, N.S.W. | Total |
|---|---|---|---|
| | oz. | oz. | oz. |
| 1905 | 14,700 | — | 14,700 |
| 1906 | — | — | — |
| 1907 | — | — | — |
| 1908 | [a]30,410 | — | [a]30,410 |
| 1910 | [b] | — | [b] |
| 1911 | [a]24,350 | — | [a]24,350 |
| 1912 | — | — | — |
| 1913 | — | — | — |
| 1914 | — | — | — |
| 1915 | — | — | — |
| 1916 | — | — | — |
| 1917 | 2,276 | — | 2,276 |
| 1918 | 3,849 | — | 3,849 |
| 1919 | 2,606 | 76 | 2,682 |
| 1920 | 1,042 | 120 | 1,162 |
| 1921 | 3,318 | — | 3,318 |
| 1922 | 7,533 | — | 7,533 |
| 1923 | — | — | — |
| 1924 | 158 | 4,150 | 4,308 |
| 1925 | — | 2,170 | 2,170 |
| 1926 | — | 215 | 215 |
| 1927 | 2,000 | — | 2,000 |
| 1928 | — | 100 | 100 |
| 1929 | — | — | — |
| 1930 | — | — | — |
| 1931 | [a] | — | [b] |
| 1932 | — | — | — |
| 1933 | [b] | — | [b] |
| 1934 | 164 | — | 164 |
| 1935 | 90 | 218 | 308 |
| 1936 | — | 100 | 100 |
| 1937 | — | — | — |
| 1938 | [b] | — | [b] |
| 1939 | 1,368 | — | 1,368 |
| 1940 | 150 | — | 150 |
| 1941 | 400 | — | 400 |
| 1942 | [b] | — | [b] |
| 1943 | — | — | — |
| 1944 | 160 | — | 160 |
| 1945 | 121 | — | 121 |
| 1946 | 305 | — | 305 |
| 1947–64 | — | — | — |
| Total | 95,000 | 7,149 | 102,149 |

[a] Production of corundum and machine stone.
[b] Quantity not stated.

*B. Boulder*

| Year | Kathleen Valley East Murchison G.F., W.A. | Mt. Broome, West Kimberley, W.A. | Total |
|---|---|---|---|
| | tons | tons | tons |
| 1952 | 54 | — | 54 |
| 1952–54 | — | — | — |
| 1955 | — | 9·15 | 9·15 |
| 1956–64 | — | — | — |
| Total | 54 | 9·15 | 63·15 |

NATURAL ABRASIVES—EXPORTS—AUSTRALIA

| Year | Abrasives, Natural in Granular or Powdered Form | | | | | | | | Flint Stones Including Pebbles | | Pumice |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | £ | | | | | | | | tons | £ | £ |
| 45–46 | 398 | | | | | | | | † | 7 | |
| 46–47 | 11,567 | | | | | | | | 11 | 120 | |
| 47–48 | 15,892 | | | | | | | | — | — | |
| 48–49 | 49,050 | | | | | | | | 241 | 2,650 | |
| | Industrial Diamonds | | Corundum | | Emery | | Natural Abrasives, n.e.i. | | | | |
| | carat | £ | tons | £ | tons | £ | tons | £ | | | |
| 49–50 | 14,930 | 13,935 | — | — | † | 34 | — | — | 128 | 1,424 | *a* |
| 50–51 | 6,970 | 14,322 | — | — | † | 13 | 6 | 89 | 95 | 2,015 | — |
| 51–52 | 16,994 | 23,055 | — | — | 1½ | 461 | 21 | 439 | 253 | 4,060 | — |
| 52–53 | 73,372 | 124,379 | — | — | † | 45 | 9 | 156 | 53 | 931 | — |
| 53–54 | 53,611 | 84,471 | † | 50 | — | — | 75 | 1,474 | — | — | — |
| 54–55 | 116,462 | 173,424 | — | — | † | 23 | 35 | 643 | *a* | — | — |
| 55–56 | 122,816 | 236,149 | — | — | — | — | 6 | 4,308 | — | — | — |
| 56–57 | 69,666 | 143,442 | — | — | — | — | 11 | 5,867 | — | — | — |
| 57–58 | 43,453 | 71,819 | — | — | *a* | | 5 | 117 | — | — | — |
| 58–59 | 49,244 | 78,105 | *a* | — | — | — | 11 | 1,697 | — | — | — |
| 59–60 | 46,546 | 90,593 | — | — | — | — | 24 | 2,032 | — | — | — |
| 60–61 | 38,199 | 90,473 | — | — | — | — | 8 | 987 | — | — | — |
| 61–62 | 59,975 | 92,824 | *a* | — | *a* | — | 36 | 3,192 | *a* | — | — |
| 62–63 | 43,149 | 85,279 | *a* | — | *a* | — | 38 | 12,528 | *a* | — | — |
| 63–64 | 100,639 | 125,816 | *a* | — | *a* | — | 16 | 2,209 | *a* | — | — |

[a] Not recorded separately, included under "Natural Abrasives, n.e.i.".

# ABRASIVES

## NATURAL ABRASIVES—IMPORTS—AUSTRALIA

| Year | Industrial Diamonds | | Pumice | | Flint Ground | | Flint Stones | |
|---|---|---|---|---|---|---|---|---|
| | carat | £ | tons | £ | tons | £ | tons | £ |
| 1940–41 | | 4,871 | — | 11,259 | 232 | 2,438 | 14 | 323 |
| 1941–42 | Quantity | 27,553 | — | 13,045 | 184 | 1,894 | 83 | 903 |
| 1942–43 | not | 56,142 | — | 13,270 | 31 | 692 | 63 | 294 |
| 1943–44 | stated | 30,038 | — | 11,504 | † | 42 | — | — |
| 1944–45 | | 24,725 | — | 20,764 | 40 | 532 | † | 50 |
| 1945–46 | | 87,575 | — | 22,505 | 6 | 2,225 | — | — |
| 1946–47 | 101,577 | 98,527 | — | 13,488 | 11 | 173 | 11 | 440 |
| 1947–48 | 247,344 | 226,348 | — | 8,561 | 5 | 79 | 45 | 665 |
| 1948–49 | 357,874 | 334,253 | — | 12,948 | 10 | 196 | 96 | 1,338 |
| 1949–50 | 264,922 | 443,184 | — | 8,129 | † | 67 | 32 | 619 |
| 1950–51 | 178,032 | 362,762 | — | 8,933 | 14 | 89 | 61 | 829 |
| 1951–52 | 196,406 | 442,482 | — | 20,042 | 5 | 134 | 65 | 1,723 |
| 1952–53 | 240,556 | 541,912 | — | 12,168 | 8 | 167 | 50 | 873 |
| 1953–54 | 102,572 | 188,920 | 952 | 16,381 | 70 | 2,279 | [a] | — |
| 1954–55 | 265,144 | 531,968 | 1,812 | 20,585 | [a] | — | — | — |
| 1955–56 | 258,321 | 543,657 | 1,440 | 17,561 | — | — | — | — |
| 1956–57 | 192,295 | 420,539 | 1,210 | 14,044 | — | — | — | — |
| 1957–58 | 221,346 | 464,134 | 1,414 | 17,221 | — | — | — | — |
| 1958–59 | 234,964 | 460,915 | 1,174 | 15,509 | — | — | — | — |
| 1959–60 | 359,721 | 630,572 | 1,215 | 20,029 | — | — | — | — |
| 1960–61 | 322,094 | 547,686 | 1,046 | 15,659 | — | — | — | — |
| 1961–62 | 277,734 | 501,475 | 1,134 | 17,158 | — | — | — | — |
| 1962–63 | 303,549 | 554,385 | 1,128 | 19,550 | — | — | — | — |
| 1963–64 | 512,062 | 795,882 | 920 | 14,306 | — | — | — | — |

[a] Not recorded separately, included under "Natural Abrasives n.e.i."

# ABRASIVES

## NATURAL ABRASIVES—IMPORTS—(1940/41 TO 1960/61)—AUSTRALIA

| Year | Tripoli Powder | | Garnet | | Corundum Grains | | Emery Grains | | Natural Abrasives, n.e.i. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | tons | £ | tons | £ | tons | £ | tons | £ | tons | £ |
| 1940–41 | — | — | — | — | — | — | — | — | 229 | 15,389 |
| 1941–42 | — | — | — | — | — | — | — | — | 501 | 33,049 |
| 1942–43 | — | — | — | — | — | — | — | — | 1,021 | 88.754 |
| 1943–44 | — | — | — | — | — | — | — | — | 1,123 | 74,903 |
| 1944–45 | — | — | — | — | — | — | — | — | 149 | 17,093 |
| 1945–46 | — | — | — | — | — | — | 77 | 6,404 | 178 | 9,089 |
| 1946–47 | — | — | — | — | † | 5 | 151 | 14,592 | 221 | 12,510 |
| 1947–48 | — | — | — | — | — | — | 245 | 16,411 | 134 | 8,855 |
| 1948–49 | — | — | — | — | — | — | 213 | 14,633 | 136 | 11,216 |
| 1949–50 | — | — | — | — | 9 | 1,219 | 139 | 10,457 | 478 | 54,920 |
| 1950–51 | — | — | — | — | 26 | 3,721 | 146 | 14,212 | 237 | 31,297 |
| 1951–52 | — | — | — | — | 1,097 | 137,609 | 210 | 19,881 | 251 | 26,168 |
| 1952–53 | — | — | — | — | 2 | 211 | 54 | 4,554 | 129 | 15,448 |
| 1953–54 | 179 | 6,863 | 28 | 3,852 | 33 | 4,515 | 101 | 7,958 | 127 | 9,494 |
| 1954–55 | 251 | 12,622 | 93 | 10,570 | 13 | 4,933 | 121 | 9,294 | 69 | 6,914 |
| 1955–56 | 300 | 13,412 | 25 | 3,414 | 84 | 12,115 | 107 | 12,006 | 45 | 4,962 |
| 1956–57 | 243 | 8,715 | 41 | 5,727 | 26 | 7,485 | 79 | 7,030 | 99 | 7,372 |
| 1957–58 | 306 | 12,817 | 48 | 5,653 | 93 | 14,837 | 132 | 13,949 | 151 | 6,318 |
| 1958–59 | 453 | 18,492 | 53 | 6,241 | 13 | 2,867 | 93 | 9,382 | 81 | 4,713 |
| 1959–60 | 303 | 13,842 | 41 | 4,665 | 35 | 8,403 | 108 | 8,431 | 330 | 11,042 |
| 1960–61 | 465 | 17,885 | 50 | 5,785 | [a] | — | [a] | — | 457 | 42,695 |
| 1961–62 | 338 | 11,800 | 43 | 4,995 | — | — | — | — | 523 | 28,419 |
| 1962–63 | 453 | 16,367 | 44 | 5,103 | — | — | — | — | 590 | 42,195 |
| 1963–64 | 729 | 24,600 | 105 | 12,350 | — | — | — | — | 1,129 | 59,702 |

[a]Not recorded separately, included under "Natural Abrasives n.e.i."

## SILICEOUS ABRASIVES PRODUCTION (AS RECORDED)—NEW SOUTH WALES

| Year | Quartz | Quartzite | Sandstone | Trachyte | Sand |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1950 | — | 222 | 200 | — | n.a. |
| 1951 | — | 140 | 200 | — | 1,230 |
| 1952 | 185 | 122 | 106 | 12 | 1,296 |
| 1953 | 446 | 137 | 1,495 | 8 | 2,134 |
| 1954 | 652 | 153 | 1,474 | 13 | 1,680 |
| 1955 | 451 | 139 | 1,949 | — | 1,340 |
| 1956 | 557 | 112 | 1,180 | — | 1,410 |
| 1957 | 647 | 105 | 857 | — | 1,791 |
| 1958 | 705 | 74 | 308 | — | 2,140 |
| 1959 | 1,674 | 141 | 409 | — | 506 |
| 1960 | 1,444 | 130 | 175 | — | 476 |
| 1961 | 1,113 | 70 | 230 | — | 340 |
| 1962 | 1,779 | 37 | 393 | — | 1,483 |
| 1963 | — | 50 | 106 | — | 1,090 |
| 1964 | — | 36 | 57 | — | 6 |

## DIAMOND PRODUCTION—NEW SOUTH WALES

| Year | Inverell District | Bingara District | Miscellaneous | Total |
|---|---|---|---|---|
| | carats | carats | carats | carats |
| 1862–1885 | n.a. | — | n.a. | [e]2,856 |
| 1886 | 5,151 | — | — | 5,151 |
| 1887 | [g]42 | — | — | 42 |
| 1888 | n.a. | — | — | n.a. |
| 1889 | 2,196 | — | — | 2,196 |
| 1890 | 530 | 200 | [a]1 | 731 |
| 1891 | 1,200 | — | — | 1,200 |
| 1892 | — | [h]458 | — | 458 |
| 1893 | — | 15,000 | — | 15,000 |
| 1894 | — | 1,772 | — | 1,772 |
| 1895 | 1,313 | — | — | 1,313 |
| 1896 | n.a. | 3,000 | — | 8,000 |
| 1897 | 8,489 | — | — | 9,189 |
| 1898 | 14,920 | 1,573 | — | 16,493 |
| 1899 | 25,800 | — | — | 25,874 |
| 1900 | [d]9,828 | — | — | 9,828 |
| 1901 | 9,322 | — | — | 9,322 |
| 1902 | 11,466 | 529 | — | 11,995 |
| 1903 | 7,826 | 4,413 | — | 12,239 |
| 1904 | 10,800 | 3,496 | — | 14,296 |
| 1905 | n.a. | n.a. | [b]28 | 6,354 |
| 1906 | — | — | — | 2,827 |
| 1907 | 2,539 | — | — | 2,539 |
| 1908 | 2,205 | — | — | 2,205 |
| 1909 | 5,474 | — | — | 5,474 |
| 1910 | 3,606 | — | — | 3,606 |
| 1911 | 5,771 | — | — | 5,771 |
| 1912 | 2,240 | — | — | 2,240 |
| 1913 | 5,473 | 100 | — | 5,573 |
| 1914 | 1,580 | — | — | 1,580 |
| 1915 | 839 | — | — | 839 |
| 1916 | 1,901 | — | — | 1,901 |
| 1917 | 2,991 | — | — | 2,991 |
| 1918 | 1,784 | — | — | 1,784 |
| 1919 | 1,774 | — | — | 1,774 |
| 1920 | 3,523 | — | — | 3,523 |
| 1921 | 1,300 | 3 | 260 | 1,563 |
| 1922 | 1,000 | — | — | 1,000 |
| 1923 | 175 | — | — | 175 |
| 1924 | 274 | — | [c]10 | 284 |
| 1925 | 172 | — | [e c]38 | 210 |
| 1926 | 55 | — | [c]9 | 64 |
| 1927 | 199 | — | — | 199 |
| 1928 | 26 | — | [c]2 | 28 |
| 1929 | 119 | — | — | 119 |
| 1930 | 667 | — | — | 667 |
| 1931 | 645 | — | 80 | 725 |
| 1932 | 161 | — | 90 | 251 |
| 1933 | 123 | — | — | 123 |
| 1934 | 49 | — | — | 49 |
| 1935 | — | — | — | — |
| 1936 | 650 | — | — | 650 |
| 1937 | 200 | — | — | 200 |
| 1938 | 300 | — | — | 300 |
| 1939 | n.a. | — | n.a. | 103 |
| 1940 | — | — | — | — |
| 1941 | 300 | — | — | 300 |
| 1942 | 183 | — | — | 183 |
| 1943 | 199 | — | 230 | 429 |
| 1944 | 174 | — | 24 | 198 |
| 1945 | 73 | — | — | 73 |
| 1946 | [e]30 | [e]20 | — | 50 |
| 1947 | 65 | — | [f]8 | 73 |
| 1948 | — | — | — | — |
| 1949 | 5 | — | — | 5 |
| 1950 | 10 | — | 120 | 130 |
| 1951 | — | — | 129 | 129 |
| 1952 | 10 | — | 39 | 49 |
| 1953 | 20 | — | 716 | 736 |
| 1954 | — | — | 1,564 | 1,564 |
| 1955 | — | — | 731 | 731 |
| 1956 | — | — | 383 | 383 |
| 1957 | 20 | — | 292 | 312 |
| 1958 | 20 | — | 138 | 158 |
| 1959 | 37 | — | — | 37 |
| 1960 | 6 | — | — | 6 |
| 1961–64 | — | — | — | — |
| Total | 157,850 | 30,564 | 4,892 | 211,192 |

[a] From Bullaway Creek, Narrabin. [b] From Gulgong. [c] From Crookwell District. [d] Including small production from Bingara division. [f] From Mt. Werong. [g] Result only of 19½ loads washed in January (Cope's Creek). [h] From "Monte Cristo" Mine (Bingara) only.

# ALUMINIUM

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BAUXITE PRODUCTION[a]—AUSTRALIA

| Year | Queensland | | New South Wales | Victoria | Western Australia | Total |
|---|---|---|---|---|---|---|
| | Brisbane[a] | Cape York | Moss Vale District | | Dwelling-up, etc. | |
| | tons | tons | tons | tons | tons | tons |
| 1927 | — | — | — | 921 | — | 921 |
| 1928 | — | — | — | 193 | — | 193 |
| 1929 | — | — | — | 546 | — | 546 |
| 1930 | — | — | — | 789 | — | 789 |
| 1931 | — | — | 196 | 1,384 | — | 1,580 |
| 1932 | — | — | — | 1,129 | — | 1,129 |
| 1933 | — | — | — | 670 | — | 670 |
| 1934 | — | — | 158 | 955 | — | 1,113 |
| 1935 | — | — | 109 | 1,047 | — | 1,156 |
| 1936 | — | — | — | 740 | — | 740 |
| 1937 | — | — | 6,686 | 1,080 | — | 7,766 |
| 1938 | — | — | 444 | 1,320 | — | 1,764 |
| 1939 | — | — | 1,739 | 807 | — | 2,546 |
| 1940 | — | — | 2,048 | 1,423 | — | 3,471 |
| 1941 | | — | 2,629 | 2,749 | — | [i]5,378 |
| 1942 | | — | 1,803 | 1,629 | — | [i]3,432 |
| 1943 | | — | 722 | 1,826 | — | [i]2,548 |
| 1944 | | — | 1,993 | 1,813 | — | [i]3,806 |
| 1945 | | — | 1,673 | 1,764 | — | [i]3,437 |
| 1946 | | — | 1,415 | 2,314 | — | [i]3,729 |
| 1947 | 4,775 | — | 2,363 | 2,515 | — | [i]4,878 |
| 1948 | | — | 2,871 | 2,774 | — | [i]5,645 |
| 1949 | | — | 1,264 | 4,028 | — | [i]5,292 |
| 1950 | | — | 1,155 | 2,312 | — | [i]3,467 |
| 1951 | | — | 2,044 | 3,040 | — | [i]5,084 |
| 1952 | | — | 4,027 | 3,208 | — | [i]7,235 |
| 1953 | | — | 1,852 | 2,200 | — | [i]4,052 |
| 1954 | 815 | — | 2,429 | 2,243 | — | 5,487 |
| 1955 | 1,725 | — | 2,847 | 2,991 | — | 7,563 |
| 1956 | 875 | — | 4,780 | 4,674 | — | 10,329 |
| 1957 | 988 | — | 3,248 | 3,471 | — | 7,707 |
| 1958 | 1,191 | — | 1,664 | 4,054 | — | 6,909 |
| 1959 | — | — | 4,244 | 3,464 | 7,277 | 14,985 |
| 1960 | 2,093 | 30,000 | 3,647 | 4,231 | 29,464 | 69,435 |
| 1961 | — | 40,000 | 2,437 | 3,539 | — | 45,976 |
| 1962 | 1,109 | 18,800 | 5,225 | 4,413 | — | 29,547 |
| 1963 | 2,161 | 285,330 | 7,352 | 2,156 | 57,206 | 354,205 |
| 1964 | 1,354 | 446,226 | 10,907 | 1,766 | 380,853 | 841,106 |
| Total | 17,086 | 820,356 | 85,971 | 82,178 | 474,800 | 1,475,616 |

[a] Excluding bauxite used for road-metal.

ALUMINA and ALUMINIUM[a] PRODUCTION—AUSTRALIA

| ALUMINA | | ALUMINIUM[a] | |
|---|---|---|---|
| Year | tons | Year | tons |
| 1955 | 4,134 | 1955 | 1,248 |
| 1956 | 16,863 | 1956 | 9,143 |
| 1957 | 20,116 | 1957 | 10,624 |
| 1958 | 22,490 | 1958 | 10,889 |
| 1959 | 26,900 | 1959 | 11,370 |
| 1960 | 29,801 | 1960 | 11,655 |
| 1961 | 29,468 | 1961 | 13,204 |
| 1962 | n.r.s. | 1962 | 16,152 |
| 1963 | 54,486 | 1963 | 41,263 |
| 1964 | 71,437 | 1964 | 78,744 |

[a] Ingots and other refinery shapes.

## ALUMINIUM—PRICES
(Yearly average)

| Year | Aust. 1–20K ingot 99·5%Al | U.K. 1–20K ingot 99·95% Al [a] | U.S.A. 30 lb. ingot 99% + Al [b] | Year | Aust. 1–20K ingot 99·5%Al | U.K. 1–20K ingot 99·95% Al [a] | U.S.A. 30 lb. ingot 99% + Al [b c] |
|---|---|---|---|---|---|---|---|
| | £A per ton | £stg. per ton | cents per lb. | | £A per ton | £stg. per ton | cents per lb. |
| 1913 | — | 80·0 | 23·6 | 1940 | — | 110·0 | 18·7 |
| 1914 | — | 82·0 | 18·6 | 1941 | — | 110·0 | 16·5 |
| | | | | 1942 | — | 110·0 | 15·0 |
| 1915 | — | 91·2 | 34·1 | 1943 | — | 110·0 | 15·0 |
| 1916 | — | 156·0 | 60·7 | 1944 | — | 110·0 | 15·0 |
| 1917 | — | 219·2 | 51·2 | | | | |
| 1918 | — | 222·9 | 33·6 | 1945 | — | 89·2 | 15·0 |
| 1919 | — | 154·2 | 32·1 | 1946 | — | 73·7 | 15·0 |
| | | | | 1947 | — | 78·3 | 15·0 |
| 1920 | — | 163·7 | 30·6 | 1948 | — | 81·7 | 15·7 |
| 1921 | — | 142·9 | 21·2 | 1949 | — | 95·7 | 17·0 |
| 1922 | — | 105·4 | 18·7 | | | | |
| 1923 | — | 110·8 | 25·4 | 1950 | — | 113·8 | 17·7 |
| 1924 | — | 122·5 | 27·0 | 1951 | — | 124·0 | 19·0 |
| | | | | 1952 | — | 155·8 | 19·4 |
| 1925 | — | 121·2 | 27·2 | 1953 | — | 156·7 | 20·9 |
| 1926 | — | 116·0 | 27·0 | 1954 | — | 156·0 | 21·8 |
| 1927 | — | 106·0 | 25·4 | | | | |
| 1928 | — | 99·0 | 23·9 | 1955 | 259·5 | 167·0 | 23·7 |
| 1929 | — | 95·0 | 23·9 | 1956 | 262·5 | 182·3 | 26·0 |
| | | | | 1957 | 276·7 | 197·0 | 27·5 |
| 1930 | — | 92·9 | 23·8 | 1958 | 271·0 | 184·2 | 26·9 |
| 1931 | — | 87·7 | 23·3 | 1959 | 271·0 | 180·2 | 26·8 |
| 1932 | — | 96·3 | 23·3 | | | | |
| 1933 | — | 100·0 | 23·3 | 1960 | 271·0 | 186·0 | 26·0 |
| 1934 | — | 100·0 | 21·6 | 1961 | 271·0 | 186·0 | 25·5 |
| | | | | 1962 | 271·0 | 180·7 | 23·9 |
| 1935 | — | 100·0 | 20·5 | 1963 | 255·5 | 181·0 | 22·6 |
| 1936 | — | 100·0 | 20·5 | 1964 | 251·0 | 190·9 | 23·7 |
| 1937 | — | 100·0 | 20·1 | | | | |
| 1938 | — | 97·3 | 20·0 | | | | |
| 1939 | — | 95·6 | 20·0 | | | | |

[a] 1913–1930 98–99% ingots, from beginning 1930 aluminium 99–99·5% ingots. Price changes under government control from 1st September, 1939 to 30th June, 1953. [b] 99·5% ingots in New York. [c] 98–99% Al prior to 1942.

## BAUXITE EXPORTS
## AUSTRALIA

| Year | tons | £, f.o.b. |
|---|---|---|
| 1960 | 29,778 | 69,808 |
| 1961 | 30,489 | 76,351 |
| 1962 | 6,470 | 10,000 |
| 1963 | 143,339 | 384,357 |
| 1964 | 405,825 | 953,582 |

## BAUXITE IMPORTS[a]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1955 | 19,287 | 75,436 | 1960 | 96,200 | 297,367 |
| 1956 | 38,891 | 86,718 | 1961 | 51,799 | 171,258 |
| 1957 | 45,147 | 108,133 | 1962 | 69,904 | 270,091 |
| 1958 | 69,473 | 137,881 | 1963 | 14,113 | 54,775 |
| 1959 | 66,746 | 159,734 | 1964 | 577 | 12,613 |

[a] Prior to 1955 the only significant quantity imported was 24,638 tons, value £42,144 in year ended 30th June, 1942.

## ALUMINIUM (INGOTS AND OTHER REFINERY SHAPES)[a] EXPORTS AND IMPORTS—AUSTRALIA

| EXPORTS | | | IMPORTS | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1946 | 242 | 19,574 | 1946 | 1,798 | 212,413 |
| 1947 | 157 | 9,591 | 1947 | 4,218 | 394,239 |
| 1948 | 202 | 12,293 | 1948 | 4,726 | 503,004 |
| 1949 | 6 | 1,452 | 1949 | 7,191 | 869,600 |
| 1950 | † | 20 | 1950 | 5,916 | 870,019 |
| 1951 | † | 51 | 1951 | 11,389 | 2,045,011 |
| 1952 | 489 | 81,796 | 1952 | 7,899 | 1,518,628 |
| 1953 | 659 | 109,396 | 1953 | 7,524 | 1,554,346 |
| 1954 | — | — | 1954 | 10,421 | 2,183,565 |
| 1955 | — | — | 1955 | 14,861 | 3,255,665 |
| 1956 | 4 | 1,116 | 1956 | 10,223 | 2,695,827 |
| 1957 | 762 | 186,945 | 1957 | 8,374 | 2,199,398 |
| 1958 | — | — | 1958 | 14,813 | 3,355,683 |
| 1959 | 78 | 14,668 | 1959 | 19,268 | 3,882,986 |
| 1960 | 20 | 6,403 | 1960 | 26,432 | 6,448,315 |
| 1961 | 7 | 2,574 | 1961 | 16,141 | 3,882,554 |
| 1962 | 40 | 14,381 | 1962 | 31,389 | 7,443,450 |
| 1963 | 5,323 | 1,083,268 | 1963 | 12,115 | 2,763,607 |
| 1964 | 15,128 | 3,181,466 | 1964 | 565 | 185,970 |

[a] Not recorded separately prior to 1st July, 1945.

## ALUMINA—IMPORTS AUSTRALIA

| Year | tons | Value £, f.o.b. |
|---|---|---|
| 1963 | 54,486 | 1,825,485 |
| 1964 | 71,437 | 2,409,550 |

BAUXITE PRODUCTION—NEW SOUTH WALES

| Year | Moss Vale District | Newcastle Mining Division | Miscellaneous | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1931 | 196 | — | — | 196 |
| 1932–1933 | — | — | — | — |
| 1934 | 158 | — | — | 158 |
| 1935 | 109 | — | — | 109 |
| 1936 | — | — | — | — |
| 1937 | 6,686 | — | — | 6,686 |
| 1938 | 444 | — | — | 444 |
| 1939 | 1,739 | — | — | 1,739 |
| 1940 | 2,048 | — | — | 2,048 |
| 1941 | 2,629 | — | — | 2,629 |
| 1942 | 1,803 | — | — | 1,803 |
| 1943 | 722 | — | — | 722 |
| 1944 | 1,993 | — | — | 1,993 |
| 1945 | 1,673 | — | — | 1,673 |
| 1946 | 1,415 | — | — | 1,415 |
| 1947 | 2,363 | — | — | 2,363 |
| 1948 | 2,871 | — | — | 2,871 |
| 1949 | 1,264 | — | — | 1,264 |
| 1950 | 1,125 | — | [a]30 | 1,155 |
| 1951 | 2,044 | — | — | 2,044 |
| 1952 | 3,197 | 823 | [b]7 | 4,027 |
| 1953 | 454 | 1,398 | — | 1,852 |
| 1954 | 1,247 | 1,182 | — | 2,429 |
| 1955 | 1,804 | 1,043 | — | 2,847 |
| 1956 | 3,426 | 1,354 | — | 4,780 |
| 1957 | 3,085 | 163 | — | 3,248 |
| 1958 | 1,664 | — | — | 1,664 |
| 1959 | 4,244 | — | — | 4,244 |
| 1960 | 3,647 | — | — | 3,647 |
| 1961 | 2,437 | — | — | 2,437 |
| 1962 | 5,225 | — | — | 5,225 |
| 1963 | 7,352 | — | — | 7,352 |
| 1964 | 10,907 | — | — | 10,907 |
| Total | 79,971 | 5,963 | 37 | 85,971 |

[a] Trundle Mining Division. [b] Gosford.

## BAUXITE PRODUCTION—VICTORIA

| Year | Narracan | Boolarra | Mirboo | Thorpdale | Morwell | Childers | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1927 | 921 | — | — | — | — | — | 921 |
| 1928 | 193 | — | — | — | — | — | 193 |
| 1929 | 466 | 80 | — | — | — | — | 546 |
| 1930 | 769 | 20 | — | — | — | — | 789 |
| 1931 | 732 | 652 | — | — | — | — | 1,384 |
| 1932 | 799 | 280 | 50 | — | — | — | 1,129 |
| 1932 | 665 | — | 5 | — | — | — | 670 |
| 1934 | — | 937 | 18 | — | — | — | 955 |
| 1935 | — | 1,027 | 20 | — | — | — | 1,047 |
| 1936 | — | 740 | — | — | — | — | 740 |
| 1937 | — | 1,005 | — | 75 | — | — | 1,080 |
| 1938 | — | 1,200 | — | 120 | — | — | 1,320 |
| 1939 | — | 752 | — | — | 5 | 50 | 807 |
| 1940 | — | 1,073 | — | — | 350 | — | 1,423 |
| 1941 | — | 2,053 | — | 696 | — | — | 2,749 |
| 1942 | — | 1,565 | — | 64 | — | — | 1,629 |
| 1943 | — | — | 1,826 | — | — | — | 1,826 |
| 1944 | — | — | 1,813 | — | — | — | 1,813 |
| 1945 | — | — | 1,764 | — | — | — | 1,764 |
| 1946 | — | — | 2,314 | — | — | — | 2,314 |
| 1947 | — | — | 2,515 | — | — | — | 2,515 |
| 1948 | — | — | 2,774 | — | — | — | 2,774 |
| 1949 | — | — | 3,928 | 100 | — | — | 4,028 |
| 1950 | — | — | 2,296 | 16 | — | — | 2,312 |
| 1951 | — | — | 2,985 | — | — | 55 | 3,040 |
| 1952 | — | — | 3,208 | — | — | — | 3,208 |
| 1953 | — | — | 2,168 | — | — | 32 | 2,200 |
| 1954 | — | — | 2,211 | — | — | 32 | 2,243 |
| 1955 | — | — | 2,974 | — | — | 17 | 2,991 |
| 1956 | — | — | 4,623 | — | — | 51 | 4,674 |
| 1957 | — | — | 2,217 | — | — | 40 | [a]3,471 |
| 1958 | — | — | 3,989 | — | — | 65 | 4,054 |
| 1959 | — | — | 3,448 | — | — | — | [a]3,464 |
| 1960 | — | — | 4,231 | — | — | — | 4,231 |
| 1961 | — | — | 3,539 | — | — | — | 3,539 |
| 1962 | — | — | 4,413 | — | — | — | 4,413 |
| 1963 | — | — | 2,156 | — | — | — | 2,156 |
| 1964 | — | — | 1,766 | — | — | — | 1,766 |
| Total | 4,545 | 11,384 | 63,251 | 1,071 | 355 | 342 | 82,178 |

[a] Not in agreement with previous columns.

# ANTIMONY

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Antimony Production—W.A. .. .. .. .. .. .. .. 28

## ANTIMONY PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Victoria | Western Australia | Total | Gross Antimony Content of Antimonial Slag and Alloys[c] | Total Estd. Antimony (Gross Content) |
|---|---|---|---|---|---|---|---|
| | Estd. Antimony Content[a] | Estd. Antimony Content[b] | Estd. Antimony Content (Approx.) | Estd. Antimony Content | Estd. Antimony Content | | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1862 | — | — | 363 | — | 363 | — | 363 |
| 1863 | | | | | | | |
| 1864 | — | — | 260 | — | 260 | — | 260 |
| 1865 | — | — | 328 | — | 328 | — | 328 |
| 1866 | — | — | 196 | — | 196 | — | 196 |
| 1867 | — | — | 122 | — | 122 | — | 122 |
| 1868 | — | — | 378 | — | 378 | — | 378 |
| 1869 | — | — | 319 | — | 319 | — | 319 |
| 1870 | — | — | 748 | — | 748 | — | 748 |
| 1871 | — | — | 709 | — | 709 | — | 709 |
| 1872 | — | — | 707 | — | 707 | — | 707 |
| 1873 | 7 | — | 643 | — | 650 | — | 650 |
| 1874 | 104 | — | 265 | — | 692 | — | 692 |
| 1875 | 30 | — | 788 | — | 818 | — | 818 |
| 1876 | 9 | 198 | 1,138 | — | 1,345 | — | 1,345 |
| 1877 | 50 | 42 | 1,188 | — | 1,280 | — | 1,280 |
| 1878 | 14 | 53 | 1,182 | — | 1,249 | — | 1,249 |
| 1879 | 2 | 42 | 223 | — | 267 | — | 267 |
| 1880 | — | 55 | 150 | — | 205 | — | 205 |
| 1881 | 177 | 388 | 32 | — | 597 | — | 597 |
| 1882 | 126 | 546 | 169 | — | 841 | — | 841 |
| 1883 | 263 | 196 | 16 | — | 475 | — | 475 |
| 1884 | 374 | 223 | | — | 597 | — | 597 |
| 1885 | — | 134 | | — | 134 | — | 230 |
| 1886 | 55 | 164 | | — | 319 | — | 415 |
| 1887 | — | 97 | | — | 97 | — | 193 |
| 1888 | — | 104 | | — | 104 | — | 200 |
| 1889 | 29 | 142 | | — | 171 | — | 267 |
| 1890 | 86 | 585 | 338 | — | 671 | — | 767 |
| 1891 | 109 | 522 | | — | 631 | — | 727 |
| 1892 | 13 | 415 | | — | 428 | — | 524 |
| 1893 | 15 | 1,011 | | — | 1,026 | — | 1,122 |
| 1894 | 14 | 713 | | — | 727 | — | 823 |
| 1895 | — | 272 | | — | 272 | — | 368 |
| 1896 | — | 75 | | — | 75 | — | 171 |
| 1897 | — | 96 | | — | 96 | — | 192 |

[a] Calculated on the assumption that concentrates average 50 per cent. Sb. [b] For years 1876–1889 cons. estimated to contain 50 per cent. Sb., for 1890 where only total of ore and metal has been recorded the antimony content has been roughly estimated on the assumption that the average antimony content is the same as the average over the years 1876–1889. [c] Produced by Broken Hill Associated Smelters from Broken Hill ores with exception of following:—

Estimated gross antimony content (tons).

| | Broken Hill | Wiluna | Read-Rosebery |
|---|---|---|---|
| 1942 | 528 | 19 | 44 |
| 1943 | 416 | 301 | 54 |
| 1944 | 308 | — | 71 |

[d] Antimony content estimated; antimonial lead produced by Broken Hill Pty. Ltd. to end of 1915 stated to have contained 20–25 per cent. Sb.

ANTIMONY PRODUCTION—AUSTRALIA—*continued*

| Year | Queensland | New South Wales | Victoria | Western Australia | Total | Gross Antimony Content of Antimonial Slag and Alloys[c] | Total Estd. Antimony (Gross Content) |
|---|---|---|---|---|---|---|---|
| | Estd. Antimony Content[a] | Estd. Antimony Content[b] | Estd. Antimony Content (Approx.) | Estd. Antimony Content | Estd. Antimony Content | | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1898 | — | 47 | | — | 47 | — | 143 |
| 1899 | 20 | 186 | | — | 206 | — | 302 |
| 1900 | — | 141 | 54 | — | 141 | — | 237 |
| 1901 | — | 50 | | — | 50 | — | 146 |
| 1902 | — | 32 | | — | 32 | — | 128 |
| 1903 | — | 7 | 3 | 11 | 205 | — | 301 |
| 1904 | — | 62 | 9 | — | 71 | — | 167 |
| 1905 | 12 | 221 | 10 | — | 243 | — | 339 |
| 1906 | 265 | 1,397 | 72 | — | 1,934 | — | 2,030 |
| 1907 | 256 | 998 | 423 | 13 | 1,690 | — | 1,786 |
| 1908 | 21 | 67 | 408 | — | 496 | Total | 592 |
| 1909 | — | 54 | 235 | — | 289 | to | 385 |
| 1910 | — | 55 | 324 | — | 379 | end | 475 |
| 1911 | — | 94 | 334 | — | 428 | of | 524 |
| 1912 | — | 36 | 708 | — | 744 | 1915 | 840 |
| 1913 | — | 10 | 1,188 | — | 1,198 | — | 1,294 |
| 1914 | — | 21 | 1,192 | — | 1,213 | — | [d]1,309 |
| 1915 | 96 | 363 | 1,435 | — | 1,894 | 2,998 | 2,004 |
| 1916 | 96 | 351 | 1,704 | 14 | 2,165 | 345 | 2,510 |
| 1917 | — | 172 | 1,286 | 6 | 1,464 | 373 | 1,837 |
| 1918 | — | 230 | 637 | — | 867 | 456 | 1,323 |
| 1919 | 1 | 87 | 604 | — | 693 | 147 | [d]840 |
| 1920 | — | 100 | 359 | 1 | 460 | 15 | 475 |
| 1921 | — | 62 | 200 | — | 262 | 157 | 419 |
| 1922 | — | — | 744 | — | 744 | 317 | 1,061 |
| 1923 | — | — | 518 | — | 518 | 364 | 882 |
| 1924 | — | — | 160 | — | 160 | 346 | 506 |
| 1925 | — | 17 | 66 | — | 83 | 432 | 515 |
| 1926 | 5 | 48 | — | 2 | 55 | 423 | 478 |
| 1927 | — | 63 | — | — | 63 | 479 | 542 |
| 1928 | — | 47 | — | — | 47 | 591 | 638 |
| 1929 | — | 25 | 1 | — | 26 | 476 | 502 |
| 1930 | — | 56 | — | — | 56 | 669 | 725 |
| 1931 | — | 46 | — | — | 46 | 344 | 390 |

[a] Calculated on the assumption that concentrates average 50 per cent. Sb. [b] For years 1876–1889 cons. estimated to contain 50 per cent. Sb., for 1890 where only total of ore and metal has been recorded theanti mony content has been roughly estimated on the assumption that the average antimony content is the same as the average over the years 1876–1889. [c] Produced by Broken Hill Associated Smelters from Broken Hill ores with exception of following:—

Estimated gross antimony content (tons).

| | Broken Hill | Wiluna | Read-Rosebery |
|---|---|---|---|
| 1942 | 528 | 19 | 44 |
| 1943 | 416 | 301 | 54 |
| 1944 | 308 | — | 71 |

[d] Antimony content estimated; antimonial lead produced by Broken Hill Pty. Ltd. to end of 1915 stated to have contained 20–25 per cent. Sb.

ANTIMONY PRODUCTION—AUSTRALIA—*continued*

| Year | Queensland | New South Wales | Victoria | Western Australia | Total | Gross Antimony Content of Antimonial Slag and Alloys[c] | Total Estd. Antimony (Gross Content) |
|---|---|---|---|---|---|---|---|
| | Estd. Antimony Content[a] | Estd. Antimony Content[b] | Estd. Antimony Content (Approx.) | Estd. Antimony Content | Estd. Antimony Content | | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1932 | — | 64 | — | — | 64 | 158 | 222 |
| 1933 | ½ | 50 | — | — | 51 | 623 | 674 |
| 1934 | — | 9 | — | — | 9 | 482 | 491 |
| 1935 | — | 25 | 5 | — | 30 | 559 | 589 |
| 1936 | 5 | 46 | 87 | — | 138 | 360 | 498 |
| 1937 | ½ | 82 | 139 | 635 | 857 | 424 | 1,281 |
| 1938 | 8 | 82 | 194 | 508 | 792 | 392 | 1,184 |
| 1939 | — | 45 | 78 | 325 | 448 | 507 | 955 |
| 1940 | 7 | 65 | 14 | 346 | 432 | 500 | 932 |
| 1941 | 26 | 157 | 8 | 935 | 1,126 | 458 | 1,584 |
| 1942 | 11 | 222 | 5 | 877 | 1,115 | 591 | 1,706 |
| 1943 | 10 | 209 | 24 | 326 | 569 | 771 | 1,340 |
| 1944 | 10 | 135 | 252 | 89 | 486 | 379 | 865 |
| 1945 | 12 | 76 | 7 | — | 95 | [e]185 | [e]280 |
| 1946 | — | 28 | 4 | 462 | 494 | [e]380 | [e]874 |
| 1947 | 8 | 43 | 3 | 120 | 174 | [e]400 | [e]574 |
| 1948 | 17 | 124 | 3 | 42 | 186 | [e]275 | [e]461 |
| 1949 | 24 | 154 | 7 | 9 | 194 | 265 | 459 |
| 1950 | 46 | 134 | 6 | 40 | 226 | 288 | 514 |
| 1951 | 28 | 151 | 72 | — | 251 | 324 | 575 |
| 1952 | 22 | 82 | 5 | 130 | 239 | 318 | 557 |
| 1953 | 8 | 39 | 2 | 164 | 213 | 391 | 604 |
| 1954 | 8 | 83 | 3 | 23 | 117 | 425 | 542 |
| 1955 | 11 | 235 | 3 | 59 | 308 | 361 | 669 |
| 1956 | — | 263 | ¾ | 23 | 287 | 293 | 580 |
| 1957 | † | 484 | ¾ | — | 485 | 278 | 763 |
| 1958 | — | 505 | ¾ | — | 506 | 288 | 794 |
| 1959 | — | 627 | ¾ | — | 628 | 417 | 1,045 |
| 1960 | — | 152 | 2 | — | 154 | 457 | 611 |
| 1961 | — | 116 | † | — | 116 | 236 | 352 |
| 1962 | — | 66 | — | — | 66 | 619 | 685 |
| 1963 | — | 74 | — | — | 74 | 626 | 700 |
| 1964 | — | 273 | — | — | 273 | 863 | 1,136 |
| Total | 2,509 | 16,122 | 23,853 | 5,160 | 47,645 | 22,865 | 70,510 |

[a] Calculated on the assumption that concentrates average 50 per cent. Sb. [b] For years 1876–1889 cons. estimated to contain 50 per cent. Sb., for 1890 where only total of ore and metal has been recorded the antimony content has been roughly estimated on the assumption that the average antimony content is the same as the average over the years 1876–1889. [c] Produced by Broken Hill Associated Smelters from Broken Hill ores with exception of following:—

Estimated gross antimony content (tons).

| | Broken Hill | Wiluna | Read-Rosebery |
|---|---|---|---|
| 1942 | 528 | 19 | 44 |
| 1943 | 416 | 301 | 54 |
| 1944 | 308 | — | 71 |

[d] Antimony content estimated; antimonial lead produced by Broken Hill Pty. Ltd. to end of 1915 stated to have contained 20–25 per cent. Sb.

## ANTIMONY ORES AND METAL—EXPORTS AND IMPORTS—AUSTRALIA

| Year | EXPORTS | | | | IMPORTS | | | |
|---|---|---|---|---|---|---|---|---|
| | Antimony Ore | | Antimony Metal[a] | | Antimony Ore | | Antimony Metal | |
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1935/36 | 95 | 2,215 | [b] | 1,229 | 150 | 5,805 | 37 | 3,531 |
| 1936/37 | — | — | [b] | 3,374 | 71 | 2,013 | 74 | 5,803 |
| 1937/38 | 195 | 10,727 | [b] | 5,518 | 13 | 555 | 36 | 3,674 |
| 1938/39 | 311 | 4,981 | [b] | 2,049 | 17 | 1,203 | 137 | 8,766 |
| 1939/40 | 4 | 341 | [b] | 13,686 | 13 | 866 | 150 | 15,444 |
| 1940/41 | — | — | [b] | 24,545 | 25 | 2,158 | 6 | 854 |
| 1941/42 | — | — | [b] | 19,253 | 4 | 206 | 5 | 786 |
| 1942/43 | — | — | [b] | 18,732 | — | — | — | — |
| 1943/44 | 4 | 471 | [b] | 13,784 | — | — | — | — |
| 1944/45 | 15 | 306 | [b] | 8,476 | — | — | — | — |
| 1946 | 95 | 8,950 | [c]973 | [c]58,188 | 411 | 20,664 | — | — |
| 1947 | 113 | 1,229 | [c]383 | [c]34,120 | 1,127 | 95,843 | — | — |
| 1948 | — | — | [c]39 | [c]3,446 | 1,062 | 109,549 | 1 | 209 |
| 1949 | 6 | 236 | [c]172 | [c]26,536 | 551 | 64,592 | 11 | 2,477 |
| 1950 | — | — | [c]36 | [c]10,047 | 709 | 61,637 | 339 | 74,280 |
| 1951 | — | — | [c]27 | [c]10,041 | 1,054 | 209,466 | 61 | 18,230 |
| 1952 | 36 | 1,813 | [c]29 | [c]21,474 | 510 | 99,146 | 14 | 4,513 |
| 1953 | 139 | 8,917 | [c]2,261 | [c]308,785 | 598 | 64,803 | 15 | 4,433 |
| 1954 | [d] | [d] | [f]13 | 3,718 | 1,023 | 106,754 | 101 | 33,179 |
| 1955 | [d] | [d] | [f]9 | 2,776 | 872 | 90,727 | 368 | 116,100 |
| 1956 | [d] | [d] | [f]5 | 1,475 | 690 | 57,693 | 21 | 5,952 |
| 1957 | [d] | [d] | [f]2 | 488 | 213 | 17,778 | 166 | 36,737 |
| 1958 | [d] | [d] | [f] | — | 10 | 784 | 69 | 13,932 |
| 1959 | [d] | [d] | [f] | — | 37 | 2,814 | 174 | 32,215 |
| 1960 | [d] | [d] | [f] | — | 363 | 12,155 | 201 | 35,822 |
| 1961 | [d] | [d] | [f] | — | 22 | 2,235 | 180 | 36,911 |
| 1962 | 94 | 13,274 | [f] | — | 24 | 2,812 | 308 | 59,440 |
| 1963 | 118 | 13,716 | [f] | — | 57 | 6,877 | 307 | 66,061 |
| 1964 | 409 | 73,034 | [f] | — | 33 | 5,454 | 216 | 105,282 |

[a] Including antimonial and lead compounds. [b] Quantity not known. [c] Year ended 30th June. [d] Not available as from 1st July, 1954. [f] Excludes antimonial lead which is a separate item. Quantities and values of antimonial lead exported are as follows:—

| | | | | | | |
|---|---|---|---|---|---|---|
| Year | 1954 | 109 tons | £14,755 | Year | 1960 | 503 tons £48,720 |
| | 1955 | 235 tons | £33,107 | | 1961 | 676 tons £63,554 |
| | 1956 | 159 tons | £20,134 | | 1962 | 1,105 tons £86,382 |
| | 1957 | 345 tons | £47,345 | | 1963 | 6,056 tons £479,189 |
| | 1958 | 109 tons | £10,148 | | 1964 | 2,970 tons £323,757 |
| | 1959 | 597 tons | £48,305 | | | |

## ANTIMONY PRODUCTION—QUEENSLAND

(Approximately 50 per cent. Sb. concentrates)

| Year | Chillagoe-Herberton District | | | Gympie District | Cooktown District | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|
| | Mainly Woodville | Northcote | Mainly Mitchell River | Neardie etc. | Cocoa Creek | | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1873 | — | — | — | 15 | — | — | 15 |
| 1874 | — | — | — | 207 | — | — | 207 |
| 1875 | — | — | — | 60 | — | — | 60 |
| 1876 | — | — | — | 18 | — | — | 18 |
| 1877 | — | — | — | 101 | — | — | 101 |
| 1878 | — | — | — | 27 | — | — | 27 |
| 1879 | — | — | — | 4 | — | — | 4 |
| 1880 | — | — | — | — | — | — | — |
| 1881 | — | 192 | — | 163 | — | — | 355 |
| 1882 | — | 147 | — | 104 | — | — | 251 |
| 1883 | — | 400 | — | 127 | — | — | 527 |
| 1884 | — | 550 | — | 198 | — | — | 748 |
| 1885 | — | — | — | — | — | — | — |
| 1886 | — | — | — | 110 | — | — | 110 |
| 1887–8 | — | — | — | — | — | — | — |
| 1889 | — | 58 | — | — | — | — | 58 |
| 1890 | — | 172 | — | — | — | — | 172 |
| 1891 | — | 52 | — | — | 165 | — | 217 |
| 1892 | — | 26 | — | — | — | — | 26 |
| 1893 | — | 30 | — | — | — | — | 30 |
| 1894 | — | 28 | — | — | — | — | 28 |
| 1895–8 | — | — | — | | — | — | — |
| 1899 | — | — | — | — | 40 | — | 40 |
| 1900–04 | — | — | — | — | — | — | — |
| 1905 | 21 | — | 3 | — | — | — | 24 |
| 1906 | 457 | — | 49 | — | — | 24 | 530 |
| 1907 | 390 | — | 20 | [a]6 | — | 95 | 511 |
| 1908 | — | — | 42 | — | — | — | 42 |
| 1909–14 | — | — | — | — | — | — | — |
| 1915 | 175 | — | 17 | — | — | — | 192 |
| 1916 | 143 | 24 | 9 | [b]5 | 9 | 3 | 192 |
| 1917–18 | — | — | — | — | — | — | — |
| 1919 | — | — | 3 | — | — | — | 3 |
| 1920–25 | — | — | — | — | — | — | — |
| 1926 | — | — | — | — | — | 10 | 10 |
| 1927–32 | — | — | — | — | — | — | — |
| 1933 | — | — | — | 1 | — | — | 1 |
| 1934–5 | — | — | — | — | — | — | — |
| 1936 | — | — | — | — | — | 9 | 9 |
| 1937 | — | — | 1 | — | — | — | 1 |

[a] Includes 2 tons from Chatsworth. [b] From a P.A. 7 miles from Gympie.

ANTIMONY PRODUCTION—QUEENSLAND—*continued.*
(Approximately 50 per cent. Sb. concentrates)

| Year | Chillagoe-Herberton District | | | Gympie District | Cooktown District | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|
| | Mainly Woodville | Northcote | Mainly Mitchell River | Neardie etc. | Cocoa Creek | | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1938 | — | — | 16 | — | — | — | 16 |
| 1939 | — | — | — | — | — | — | — |
| 1940 | — | — | 15 | — | — | — | 15 |
| 1941 | — | — | 52 | — | — | — | 52 |
| 1942 | — | — | 22 | — | — | — | 22 |
| 1943 | — | — | 16 | — | — | 4 | 20 |
| 1944 | 2 | 15 | 2 | — | .5 | .5 | 20 |
| 1945 | — | 11 | — | — | 4 | 10 | 25 |
| 1946 | — | — | — | — | — | — | — |
| 1947 | 10 | 6 | — | — | — | — | 16 |
| 1948 | 8 | 25 | — | — | — | — | 33 |
| 1949 | — | 11 | 29 | — | — | 8 | 48 |
| 1950 | — | 37 | 35 | — | — | 21 | 93 |
| 1951 | — | 20 | 24 | — | — | 12 | 56 |
| 1952 | — | 5 | 24 | — | — | 14 | 43 |
| 1953 | — | 6 | † | — | — | 11 | 17 |
| 1954 | — | — | — | — | — | 15 | 15 |
| 1955 | — | — | 10 | — | — | 13 | 23 |
| 1956 | — | — | — | — | — | — | — |
| 1957 | — | † | — | — | — | — | † |
| 1958–64 | — | — | — | — | — | — | — |
| Total | 1,206 | 1,815 | 389 | 1,146 | 219 | 250 | 5,025 |

## ANTIMONY PRODUCTION—NEW SOUTH WALES[a]

(Incomplete table showing production so far as recorded)

| Year | New England | | Drake District | Macksville, Bellingen and Kempsey District | | Total | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Ore | Metal (Estd.) | Ore | Ore | Metal (Estd.) | Ore | Metal | Ore and Metal | Estd. Antimony Cont.[c] |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| Prior to 1877 | No complete records | | n.a. | — | — | 112 | 142 | — | 198 |
| 1877 | | | 47 | — | — | 56 | 14 | — | 42 |
| 1878 | | | 10 | — | — | 23 | 41 | — | 53 |
| 1879 | | | n.a. | — | — | 70 | 7 | — | 42 |
| 1880 | | | — | — | — | 87 | 12 | — | 55 |
| 1881 | | | — | — | — | 303 | 237 | — | 388 |
| 1882 | | | — | — | — | 1,046 | 23 | — | 546 |
| 1883 | | | — | — | — | 357 | 18 | — | 196 |
| 1884 | | | — | — | — | 420 | 13 | — | 223 |
| 1885 | | | — | — | — | 258 | 5 | — | 134 |
| 1886 | | | — | — | — | 217 | 56 | — | 164 |
| 1887 | | | — | — | — | 101 | 47 | — | 97 |
| 1888 | | | — | — | — | 171 | 19 | — | 104 |
| 1889 | | | — | — | — | 155 | 65 | — | 142 |
| 1890 | 1,000 | — | 26 | — | — | — | — | 1,026 | 585 |
| 1891 | 1,580 | — | — | 170 | — | — | — | 915 | 522 |
| 1892 | 1,135 | — | — | 280 | — | — | — | 728 | 415 |
| 1893 | 1,776 | — | — | 866 | — | — | — | 1,774 | 1,011 |
| 1894 | 708 | — | — | 370 | — | — | — | 1,250 | 713 |
| 1895 | — | 400 | — | 50 | — | — | — | 478 | 272 |
| 1896 | 71 | — | — | 30 | — | — | — | 132 | 75 |
| 1897 | — | — | — | — | — | — | — | 169 | 96 |
| 1898 | — | — | — | — | — | — | — | 82 | 47 |
| 1899 | 29 | — | — | 191 | — | — | — | 327 | 186 |
| 1900 | n.a. | — | — | — | — | — | — | 248 | 141 |
| 1901 | 88 | — | — | — | — | — | — | 88 | 50 |
| 1902 | — | — | — | 15 | — | — | — | 56 | 32 |
| 1903 | n.a. | — | — | — | — | — | — | 13 | 7 |
| 1904 | n.a. | — | — | — | — | — | — | 109 | 62 |
| 1905 | n.a. | — | — | n.a. | — | — | — | 388 | 221 |
| 1906 | n.a. | — | — | n.a. | — | — | — | 2,451 | 1,397 |
| 1907 | n.a. | — | — | n.a. | — | — | — | 1,752 | 998 |
| 1908 | n.a. | — | — | — | — | — | — | 117 | 67 |
| 1909 | n.a. | — | — | — | — | — | — | 95 | 54 |
| 1910 | — | — | — | — | — | — | — | 97 | 55 |
| 1911 | n.a. | — | — | — | — | — | — | 165 | 94 |
| 1912 | n.a. | — | — | — | — | — | — | 63 | 36 |

[a] Excluding antimony produced from Broken Hill lead ores, for which see table showing total Australian production. [b] About two-thirds of production accounted for in district production totals. Other centres from which antimony has been produced in small quantities, details of which are not available are: Grafton District, Yarrowyck, Bingara, Barraba, Nundle, Armidale, Coobadah, Gresford, Port Macquarie, Glen Innes, Ardlethan, Wild Cattle Creek. [c] Estimated on following basis. All ore recorded assumed to contain 50 per cent. antimony. Where a total figure of ore and metal is given, it is assumed that the average metal content for the total is the same as the average for the period over which ore and metal were recorded separately. [d] Including 8·5 tons from Inverell. [f] Including 6·74 tons from Inverell and 4·83 tons from Bingara. [g] Including 6·8 tons from Inverell.

ANTIMONY PRODUCTION—NEW SOUTH WALES[a]—*continued*

(Incomplete table showing production so far as recorded)

| Year | New England | | Drake District | Macksville, Bellingen and Kempsey District | | Total | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Ore | Metal (Estd.) | Ore | Ore | Metal (Estd.) | Ore | Metal | Ore and Metal | Estd. Antimony Cont.[c] |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1913 | 18 | — | — | — | — | — | — | 18 | 10 |
| 1914 | 36 | — | — | — | — | — | — | 36 | 21 |
| 1915 | 773 | — | — | — | — | — | — | 637 | 363 |
| 1916 | — | 473 | — | n.a. | — | — | — | 616 | 351 |
| 1917 | n.a. | — | — | n.a. | — | — | — | 301 | 172 |
| 1918 | 343 | — | — | n.a. | — | — | — | 358 | 230 |
| 1919 | — | 83 | — | — | 4 | — | — | — | 87 |
| 1920 | 200 | — | — | — | — | 200 | — | — | 100 |
| 1921 | n.a. | — | — | n.a. | — | 125 | — | — | 62 |
| 1922–4 | — | — | — | — | — | — | — | — | — |
| 1925 | n.a. | — | — | n.a. | — | — | — | 29 | 17 |
| 1926 | n.a. | — | — | n.a. | — | — | — | 85 | 48 |
| 1927 | 18 | — | 5 | — | 42 | — | 63 | — | 63 |
| 1928 | 6 | — | — | — | 39 | — | — | — | 47 |
| 1929 | — | — | — | — | 20 | — | — | — | 25 |
| 1930 | — | 6 | — | — | 50 | — | — | 64 | 56 |
| 1931 | 34 | — | — | — | 31 | 35 | 30 | — | 48 |
| 1932 | 42 | — | — | — | 46 | 42 | 46 | — | 67 |
| 1933 | n.a. | — | — | — | 41 | 16 | 41 | — | 50 |
| 1934 | — | — | — | — | 9 | 2 | 9 | — | 9 |
| 1935 | 8 | — | 1 | 25 | — | 49 | — | — | 25 |
| 1936 | 40 | — | 2 | 47 | — | 92 | — | — | 46 |
| 1937 | 12 | — | — | 132 | — | — | — | 144 | 82 |
| 1938 | — | — | — | 93 | — | — | — | 144 | 82 |
| 1939 | 34 | — | — | 42 | — | — | — | 79 | 45 |
| 1940 | 75 | — | — | 20 | — | 131 | — | — | 65 |
| 1941 | 142 | — | — | 86 | — | 315 | — | — | 157 |
| 1942 | 257 | — | — | 177 | — | [d]433 | — | — | 222 |
| 1943 | 255 | — | 6 | 141 | — | [f]418 | — | — | 209 |
| 1944 | 187 | — | — | 84 | — | [g]278 | — | — | 135 |
| 1945 | 122 | 61 | — | 30 | 15 | 152 | — | — | 76 |
| 1946 | 55 | 28 | — | — | — | 55 | — | — | 28 |
| 1947 | 79 | 40 | — | 6 | 3 | 85 | — | — | 43 |
| 1948 | 248 | 124 | — | — | — | 248 | — | — | 124 |
| 1949 | 304 | 152 | — | 3 | 2 | 307 | — | — | 154 |
| 1950 | 257 | 127 | — | 15 | 7 | 272 | — | — | 134 |

[a] Excluding antimony produced from Broken Hill lead ores, for which see table showing total Australian production. [b] About two-thirds of production accounted for in district production totals. Other centres from which antimony has been produced in small quantities, details of which are not available are: Grafton District, Yarrowyck, Bingara, Barraba, Nundle, Armidale, Coobadah, Gresford, Port Macquarie, Glen Innes, Ardlethan, Wild Cattle Creek. [c] Estimated on following basis. All ore recorded assumed to contain 50 per cent. antimony. Where a total figure of ore and metal is given, it is assumed that the average metal content for the total is the same as the average for the period over which ore and metal were recorded separately. [d] Including 8·5 tons from Inverell. [f] Including 6·74 tons from Inverell and 4·83 tons from Bingara. [g] Including 6·8 tons from Inverell.

## ANTIMONY PRODUCTION—NEW SOUTH WALES[a]—*continued*

(Incomplete table showing production so far as recorded)

| Year | New England | | Drake District | Macksville, Bellingen and Kempsey District | | Total | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Ore | Metal (Estd.) | Ore | Ore | Metal (Estd.) | Ore | Metal | Ore and Metal | Estd. Antimony Cont.[c] |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1951 | 232 | 109 | — | 85 | 42 | 317 | — | — | 151 |
| 1952 | 150 | 75 | — | 14 | 7 | 164 | — | — | 82 |
| 1953 | 71 | 39 | — | — | — | 71 | — | — | 39 |
| 1954 | 53 | 31 | — | 103 | 52 | 156 | — | — | 83 |
| 1955 | 419 | 235 | — | † | † | 419 | — | — | 235 |
| 1956 | 468 | 263 | — | — | — | 468 | — | — | 263 |
| 1957 | 850 | 484 | — | — | — | 850 | — | — | 484 |
| 1958 | 1,114 | 505 | — | — | — | 1,114 | — | — | 505 |
| 1959 | 1,021 | 627 | — | — | — | 1,021 | — | — | 627 |
| 1960 | 253 | 152 | — | — | — | 253 | — | — | 152 |
| 1961 | 188 | 116 | — | — | — | 188 | — | — | 116 |
| 1962 | 99 | 66 | — | — | — | 99 | — | — | 66 |
| 1963 | 114 | 74 | — | — | — | 114 | — | — | 74 |
| 1964 | 414 | 273 | — | — | — | 414 | — | — | 273 |
| Total[b] | 15,378 | 4,543 | 97 | 3,075 | 410 | 12,289 | 888 (28,209) | 15,032 | 16,122 |

[a] Excluding antimony produced from Broken Hill lead ores, for which see table showing total Australian production. [b] About two-thirds of production accounted for in district production totals. Other centres from which antimony has been produced in small quantities, details of which are not available are: Grafton District, Yarrowyck, Bingara, Barraba. Nundle, Armidale, Coobadah, Gresford, Port Macquarie, Glen Innes, Ardlethan, Wild Cattle Creek. [c] Estimated on following basis. All ore recorded assumed to contain 50 per cent. antimony. Where a total figure of ore and metal is given, it is assumed that the average metal content for the total is the same as the average for the period over which ore and metal were recorded separately. [d] Including 8·5 tons from Inverell. [f] Including 6·74 tons from Inverell and 4·83 tons from Bingara. [g] Including 6·8 tons from Inverell.

## ANTIMONY PRODUCTION—VICTORIA

| Year | Costerfield | South Costerfield (Alison Mine) | Coimadai | Total |
|---|---|---|---|---|
| | Estd. Antimony Content | Estd. Antimony Content | Estd. Antimony Content | Estd. Antimony Content |
| | tons | tons | tons | tons |
| 1862 } | — | — | — | 363 |
| 1863 } | | | | |
| 1864 | — | — | — | 260 |
| 1865 | — | — | — | 328 |
| 1866 | — | — | — | 196 |
| 1867 | — | — | — | 122 |
| 1868 | — | — | — | 378 |
| 1869 | — | — | — | 319 |
| 1870 | — | — | — | 748 |
| 1871 | — | — | — | 709 |
| 1872 | — | — | — | 707 |
| 1873 | — | — | — | 643 |
| 1874 | — | — | — | 265 |
| 1875 | — | — | — | 788 |
| 1876 | — | — | — | 1,138 |
| 1877 | — | — | — | 1,188 |
| 1878 | Approx- | — | — | 1,182 |
| 1879 | imate total | — | — | 223 |
| | recorded | Included in | | |
| 1880 | production | production | — | 150 |
| 1881 | to the end | from | — | 32 |
| 1882 | of 1883— | Costerfield | — | 169 |
| 1883 | 7,939 | — | — | 16 |
| 1884–90 | | — | | — |
| 1892 | No | — | Produced | 388 |
| 1893 | production | — | 1887–1900 | |
| 1894 | recorded | — | | |
| 1895 | 1883–1903 | | | |
| 1896–7 | | — | — | 54 |
| 1898 | | — | — | — |
| 1899–1902 | | — | — | — |
| 1903 | 3 | — | — | 3 |
| 1904 | 9 | — | — | 9 |

| Year | Costerfield | South Costerfield (Alison Mine) | Coimadai | Total |
|---|---|---|---|---|
| | Estd. Antimony Content | Estd. Antimony Content | Estd. Antimony Content | Estd. Antimony Content |
| | tons | tons | tons | tons |
| 1905 | 10 | — | — | 10 |
| 1906 | 72 | — | — | 72 |
| 1907 | 423 | — | — | 423 |
| 1908 | 408 | — | — | 408 |
| 1909 | 235 | — | — | 235 |
| 1910 | 324 | — | — | 324 |
| 1911 | 334 | — | — | 334 |
| 1912 | 708 | — | — | 708 |
| 1913 | 1,188 | — | — | 1,188 |
| 1914 | 1,192 | — | — | 1,192 |
| 1915 | 1,435 | — | — | 1,435 |
| 1916 | 1,704 | — | — | 1,704 |
| 1917 | 1,286 | — | — | 1,286 |
| 1918 | 637 | — | — | 637 |
| 1919 | 604 | — | — | 604 |
| 1920 | 359 | — | — | 359 |
| 1921 | 200 | — | — | 200 |
| 1922 | 744 | — | — | 744 |
| 1923 | 518 | — | — | 518 |
| 1924 | 160 | — | — | 160 |
| 1925 | 66 | — | — | 66 |
| 1926–8 | — | — | — | — |
| 1929 | — | — | — | 1 |
| 1930–34 | — | — | — | — |
| 1935 | 5 | — | — | 5 |
| 1936 | 77 | 10 | — | 87 |
| 1937 | 136 | 3 | — | 139 |
| 1938 | 183 | 11 | — | 194 |
| 1939 | 78 | — | — | 78 |
| 1940 | 11 | 3 | — | 14 |
| 1941 | — | — | 8 | 8 |
| 1942 | — | — | — | 5 |
| 1943 | 4 | — | 19 | 24 |
| 1944 | 137 | — | 115 | 252 |

[a] Costerfield production to the end of 1883 estimated as 80 per cent. of total Victorian production.

ANTIMONY PRODUCTION—VICTORIA

| Year | Costerfield | Kevington | Hoddle's Creek | Steele's Creek | Total |
|---|---|---|---|---|---|
| | Estd. Antimony Content | Estd. Antimony Content | Estd. Antimony Content | Estd. Antimony Content | |
| | tons | tons | tons | tons | tons |
| 1945 | 7 | — | — | — | 7 |
| 1946 | 1 | 3 | — | — | 4 |
| 1947 | — | 3 | — | — | 3 |
| 1948 | 3 | — | — | — | 3 |
| 1949 | — | — | 7 | — | 7 |
| 1950 | 2½ | — | 2 | 1½ | 6 |
| 1951 | 68 | — | — | 4 | 72 |
| 1952 | — | — | — | 5 | 5 |
| 1953 | — | — | 1½ | 1½ | 3 |
| 1954 | — | — | † | 2 | 2 |
| 1955 | — | — | — | 3 | 3 |
| 1956 | — | — | — | ¾ | ¾ |
| 1957 | — | — | — | ¾ | ¾ |
| 1958 | — | — | — | ¾ | ¾ |
| 1959 | — | — | — | ¾ | ¾ |
| 1960 | — | — | — | 2 | 2 |
| 1961 | — | — | — | † | † |
| 1962–64 | — | — | — | — | — |
| Total | [a]21,270 | 6 | 11 | 22 | 23,853 |

[a] Costerfield production to the end of 1883 estimated at 80 per cent. of total Victorian production.

ANTIMONY PRODUCTION—WESTERN AUSTRALIA

| Year | E. Murchison Goldfield | | Pilbara Goldfield | Total |
|---|---|---|---|---|
| | Wiluna Moonlight[a] | Wiluna Gold Mines | Blue Spec etc. | |
| | Estd. Antimony Content | Estd. Antimony Content | Estd. Antimony Content | Estd. Antimo Conter |
| | tons | tons | tons | tons |
| 1903 | — | — | 11 | |
| 1904–6 | — | — | 3 | |
| 1907 | — | — | — | |
| 1908–15 | — | — | — | |
| 1916 | — | — | 24 | |
| 1917 | — | — | — | |
| 1918–19 | — | — | — | |
| 1920 | — | — | — | |
| 1921–5 | — | — | — | |
| 1926 | — | — | — | |
| 1927–36 | — | — | — | |
| 1937 | 629 | — | 7 | 6 |
| 1938 | 508 | — | — | 5 |
| 1939 | 325 | — | — | 3 |
| 1940 | 345 | — | 1 | 3 |
| 1941 | 552 | 381 | 2 | 9 |
| 1942 | 145 | 726 | 6 | 8 |
| 1943 | 124 | 191 | 11 | 3 |
| 1944 | 85 | — | 4 | |
| 1945 | — | — | — | |
| 1946 | 258 | 48 | 156 | 4 |
| 1947 | — | — | 118 | 1 |
| 1948 | — | — | 42 | |
| 1949 | — | — | 1 | |
| 1950 | — | — | 39 | |
| 1951 | — | — | — | |
| 1952 | — | — | 130 | 1 |
| 1953 | — | — | 164 | 1 |
| 1954 | — | — | 23 | |
| 1955 | — | — | 59 | |
| 1956 | — | — | 23 | |
| 1957–64 | — | — | — | |
| Total | 2,971 | 1,346 | 824 | 5,1 |

[a] Actual mine production of concentrates, not sales.

# ARSENIC

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Arsenic Production—Western Australia .. .. .. .. .. 35

ARSENIC PRODUCTION—AUSTRALIA
(Estimated Arsenious Oxide)

| Year | Queensland | New South Wales | Victoria | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| Prior to— | | | | | | |
| 1907 | — | — | | 160 | — | 160 |
| 1907 | — | — | | 2 | — | 2 |
| 1908 | — | 57 | | — | — | 57 |
| 1909 | — | 2 | | — | — | 2 |
| 1910 | — | 200 | | — | — | 200 |
| 1911 | — | 300 | | — | — | 300 |
| 1912–15 | — | — | | — | — | — |
| 1916 | — | — | | — | 3 | 3 |
| 1917 | 13 | — | | — | 15 | 28 |
| 1918 | 66 | — | | — | 176 | 242 |
| 1919 | 58 | 1 | | — | — | 59 |
| 1920 | 305 | 71 | Annual | — | 460 | 836 |
| 1921 | 220 | 397 | production | — | 2 | 619 |
| 1922 | 400 | 291 | not | — | 278 | 969 |
| 1923 | 820 | 565 | recorded | — | 15 | 1,400 |
| 1924 | 563 | 525 | | 27 | 25 | 1,140 |
| 1925 | 334 | 450 | | 38 | 32 | 854 |
| 1926 | 245 | 291 | | — | 17 | 553 |
| 1927 | 21 | 85 | | — | 41 | 147 |
| 1928 | — | 68 | | — | 20 | 88 |
| 1929 | — | 250 | | — | — | 250 |
| 1930 | — | 796 | | — | — | 796 |
| 1931 | — | 661 | | — | 409 | 1,070 |
| 1932 | — | 487 | | — | 1,162 | 1,649 |
| 1933 | — | 445 | | — | 2,139 | 2,584 |
| 1934 | — | 622 | — | — | 1,631 | 2,253 |
| 1935 | — | 370 | — | — | 3,728 | 4,098 |
| 1936 | — | 122 | — | — | 3,470 | 3,592 |
| 1937 | — | — | Total | — | 2,054 | 2,054 |
| 1938 | — | — | to end of | — | 3,999 | 3,999 |
| 1939 | — | — | 1940. | — | 1,416 | 1,416 |
| 1940 | — | — | [a]9,700 | — | 3,332 | 3,332 |
| 1941 | — | — | 62 | — | 3,378 | 3,440 |
| 1942 | — | — | 114 | — | 2,727 | 2,841 |
| 1943 | — | — | 53 | — | 2,283 | 2,336 |
| 1944 | — | — | 35 | — | 2,304 | 2,339 |
| 1945 | — | — | n.r. | — | 1,989 | 1,989 |
| 1946 | — | — | n.r. | — | 1,625 | 1,625 |
| 1947 | — | — | n.r. | — | 1,191 | 1,191 |
| 1948 | — | — | [a]298 | — | 214 | 512 |
| 1949 | — | — | [e]220 | — | 33 | 253 |
| 1950 | — | — | [e]150 | — | — | 150 |
| 1951 | — | — | [e]120 | — | — | 120 |
| 1952 | — | — | [e]120 | — | — | 120 |
| 1953–64 | — | — | — | — | — | — |
| Total | 3,045 | 7,056 | [e]10,872 | 227 | 40,168 | 61,368 |

[a] Estimated by Victor Leggo Mining Co. Pty. Ltd. About 700 tons produced annually prior to 1930.

ARSENIC AND COMPOUNDS—EXPORTS AND IMPORTS—AUSTRALIA

| Year | EXPORTS | | IMPORTS | | | |
|---|---|---|---|---|---|---|
| | Arsenic Trioxide[a] | | Arsenic Trioxide | | Arsenic Pentoxide | |
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1937–38 | 403 | 4,556 | 389 | 3,519 | 82 | 2,272 |
| 1938–39 | 121 | 2,239 | 637 | 5,044 | 53 | 1,479 |
| 1939–40 | 745 | 16,186 | 773 | 7,678 | 34 | 868 |
| 1940–41 | 1,420 | 37,315 | † | 17 | † | 3 |
| 1941–42 | 1,622 | 53,153 | † | 8 | † | 17 |
| 1942–43 | 545 | 17,391 | † | 5 | — | — |
| 1943–44 | 101 | 4,021 | † | 6 | — | — |
| 1944–45 | 64 | 2,904 | † | 14 | † | 3 |
| 1946 | 12 | 488 | 1,645 | 51,789 | 40 | 2,674 |
| 1947 | — | — | 1,536 | 74,277 | 6 | 829 |
| 1948 | 14 | 847 | 1,227 | 56,691 | 71 | 3,420 |
| 1949 | 36 | 2,167 | 1,271 | 62,248 | 148 | 7,567 |
| 1950 | 28 | 2,085 | 1,643 | 107,584 | 91 | 4,134 |
| 1951 | 9 | 1,323 | 1,974 | 116,501 | 42 | 3,957 |
| 1952 | — | — | 2,609 | 210,746 | — | — |
| 1953 | — | — | 2,145 | 125,189 | — | — |
| 1954 | — | — | 2,648 | 130,683 | 3 | 263 |
| 1955 | — | — | 3,492 | 175,909 | 16 | 1,470 |
| 1956 | — | — | 2,170 | 100,405 | † | 22 |
| 1957 | — | — | 1,586 | 66,614 | † | 26 |
| 1958 | — | — | 2,699 | 97,702 | † | 18 |
| 1959 | — | — | 2,402 | 75,799 | — | — |
| 1960 | — | — | 2,779 | 87,655 | — | — |
| 1961 | — | — | 1,439 | 47,447 | — | — |
| 1962 | — | — | 1,806 | 57,147 | — | — |
| 1963 | — | — | 1,851 | 63,062 | — | — |
| 1964 | — | — | 2,115 | 68,968 | — | — |

[a] Including arsenical compounds.

## ARSENIC PRODUCTION—QUEENSLAND

(Estimated, as far as possible, as crude or refined arsenious oxide)

| Year | Stanthorpe District | | | Total |
|---|---|---|---|---|
| | Beecroft Mine Sundown | State Mine Jibbinbar | Sundown Mine Sundown | |
| | tons | tons | tons | tons |
| 1917 | [e]13 | — | — | [e]13 |
| 1918 | 66 | — | — | 66 |
| 1919 | 23 | 33 | — | [a]58 |
| 1920 | — | 285 | 20 | 305 |
| 1921 | — | 220 | — | 220 |
| 1922 | — | 370 | 30 | 400 |
| 1923 | [e]280 | 340 | 200 | [e]820 |
| 1924 | [e]184 | 379 | — | 563 |
| 1925 | [e]334 | — | — | [e]334 |
| 1926 | [e]245 | — | — | [e]245 |
| 1927 | [e]21 | — | — | [e]21 |
| 1928–64 | — | — | — | — |
| Total | 1,166 | 1,627 | 250 | 3,045 |

[a] Two tons not accounted for in Warden's Report.

## ARSENIC PRODUCTION—NEW SOUTH WALES

| Year | Torrington District | Deepwater District | Bellingen District | Hillgrove District | Inverell District | Moruya District | Emmaville District | Tumut District | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | Mole River and Pye's Creek | Ottery Mine, Tent Hill | Valla Mines, Urunga | Rockvale | Conrad Mines | Moruya | Webb's Consols Mine | Brungle and Wyangle | | |
| | Oxide | Oxide | Oxide | Oxide | Oxide | Oxide | Oxide | Oxide | Oxide | Estimated Arsenious Oxide |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1908 | — | — | — | — | 57 | — | — | — | — | 57 |
| 1909 | — | — | — | — | — | 2 | — | — | — | 2 |
| 1910 | — | — | — | — | [b]200 | — | — | — | — | 200 |
| 1911 | — | — | — | — | [b]300 | — | — | — | — | 300 |
| 1912–1918 | — | — | — | — | — | — | — | — | — | — |
| 1919 | — | — | — | — | — | — | — | — | [ec]1 | [e]1 |
| 1920 | — | 50 | — | — | — | — | — | 20 | [ed]1 | 71 |
| 1921 | — | 196 | 138 | — | — | — | — | 58 | [f]3 | [a]397 |
| 1922 | — | 268 | [e]2 | — | — | [e]1 | — | [e]9 | [eg]11 | 291 |
| 1923 | [e]19 | 279 | [e]165 | 82 | — | [e]16 | — | [e]3 | [eh]1 | 565 |
| 1924 | [e]8 | 272 | [e]20 | [e]189 | — | [e]21 | [e]15 | — | — | 525 |
| 1925 | [e]1 | 296 | [e]44 | [e]92 | — | — | [e]7 | — | [ej]10 | 450 |
| 1926 | — | 59 | [e]92 | 140 | — | — | — | — | — | 291 |
| 1927 | — | [e]15 | — | 70 | — | — | — | — | — | 85 |
| 1928 | — | 49 | — | [e]19 | — | — | — | — | — | 68 |
| 1929 | 200 | 50 | — | — | — | — | — | — | — | 250 |
| 1930 | 650 | — | 146 | — | — | — | — | — | — | 796 |
| 1931 | 543 | — | 118 | — | — | — | — | — | — | 661 |
| 1932 | 181 | 136 | 170 | — | — | — | — | — | — | 487 |
| 1933 | 293 | 152 | — | — | — | — | — | — | — | 445 |
| 1934 | 502 | 120 | — | — | — | — | — | — | — | 622 |
| 1935 | 350 | 20 | — | — | — | — | — | — | — | 370 |
| 1936 | 112 | 10 | — | — | — | — | — | — | — | 122 |
| 1937–64 | — | — | — | — | — | — | — | — | — | — |
| Total | 2,859 | 1,972 | 895 | 592 | 557 | 40 | 22 | 90 | 27 | 7,056 |

[a] Not all accounted for in previous columns. [b] Recorded as arsenic; value seems anomalous. [c] Burrowa. [d] Tyagong. [f] Fraser's Creek. [g] Mount Gifford. [h] Deepwater. [j] 6·5 Fraser's Creek, 1 Armidale, 2·75 George's Creek.

ARSENIC PRODUCTION—SOUTH AUSTRALIA
(Estimated, as far as possible, as arsenious oxide)

| Year | Preamimma Mine, Callington | Callington (South Australian Arsenic Co. Mine) | Cape Jervis | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| Prior to— | | | | |
| 1907 | 160 | — | — | 160 |
| 1907 | 2 | — | — | 2 |
| 1908–23 | — | — | — | — |
| 1924 | — | 24 | 3 | 27 |
| 1925 | — | 38 | — | 38 |
| 1926–64 | — | — | — | — |
| Total | 162 | 62 | 3 | 227 |

## ARSENIC PRODUCTION—WESTERN AUSTRALIA

(Estimated so far as possible, as arsenious oxide, refined or crude)

| Year | E. Murchison Goldfield | Yilgarn and Murchison Goldfields | Total |
|---|---|---|---|
| | Wiluna | Transvaal and Ingliston Consols Mines | |
| | tons | tons | tons |
| 1916 | — | 3 | 3 |
| 1917 | — | 15 | 15 |
| 1918 | — | 176 | 176 |
| 1919 | — | — | — |
| 1920 | — | 460 | 460 |
| 1921 | — | 2 | 2 |
| 1922 | — | 278 | 278 |
| 1923 | — | 15 | 15 |
| 1924 | — | 25 | 25 |
| 1925 | — | 32 | 32 |
| 1926 | — | 17 | 17 |
| 1927 | — | 41 | 41 |
| 1928 | — | 20 | 20 |
| 1929 | — | — | — |
| 1930 | — | — | — |
| 1931 | 409 | — | 409 |
| 1932 | 1,162 | — | 1,162 |
| 1933 | 2,139 | — | 2,139 |
| 1934 | 1,631 | — | 1,631 |
| 1935 | 3,728 | — | 3,728 |
| 1936 | 3,470 | — | 3,470 |
| 1937 | 2,054 | — | 2,054 |
| 1938 | 3,999 | — | 3,999 |
| 1939 | 1,416 | — | 1,416 |
| 1940 | 3,332 | — | 3,332 |
| 1941 | 3,378 | — | 3,378 |
| 1942 | 2,727 | — | 2,727 |
| 1943 | 2,283 | — | 2,283 |
| 1944 | 2,304 | — | 2,304 |
| 1945 | 1,989 | — | 1,989 |
| 1946 | 1,625 | — | 1,625 |
| 1947 | 1,190 | 1 | 1,191 |
| 1948 | 214 | — | 214 |
| 1949 | 33 | — | 33 |
| 1950–64 | — | — | — |
| Total | 39,038 | [a]1,085 | 40,168 |

[a] Probably 1,000 tons from Transvaal mine.

Page 36 is blank.

# ASBESTOS

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Asbestos Production—South Australia .. .. .. .. .. .. 43

Asbestos Production—Western Australia .. .. .. .. .. 44

## ASBESTOS PRODUCTION—AUSTRALIA

| Year | Crocidolite | Chrysotile | Amphibole | Total |
|---|---|---|---|---|
| | short tons | short tons | short tons | short tons |
| 1880 | — | — | 14 | 14 |
| 1881 | — | — | — | — |
| 1882 | — | — | 8 | 8 |
| 1883–84 | — | — | — | — |
| 1885 | — | — | 7 | 7 |
| 1886–89 | — | — | — | — |
| 1899 | — | 22 | — | 22 |
| 1900 | — | 14 | — | 14 |
| 1901 | — | 5 | — | 5 |
| 1902–06 | — | — | — | — |
| 1907 | — | — | 6 | 6 |
| 1908 | — | 45 | — | 45 |
| 1909 | — | 3 | 17 | 20 |
| 1910–14 | — | — | — | — |
| 1915 | † | — | 1 | 1 |
| 1916 | 24 | 2 | — | 26 |
| 1917 | — | 30 | 11 | 41 |
| 1918 | — | 330 | — | 330 |
| 1919 | — | 277 | 13 | 290 |
| 1920 | 6 | 910 | 9 | 925 |
| 1921 | 2 | 1,277 | 45 | 1,324 |
| 1922 | — | 832 | — | 832 |
| 1923 | 8 | 357 | — | 365 |
| 1924 | 4 | 82 | — | 86 |
| 1925 | — | 57 | — | 57 |
| 1926 | — | 118 | 5 | 123 |
| 1927 | — | 11 | — | 11 |
| 1928 | — | 12 | — | 12 |
| 1929 | — | 287 | — | 287 |
| 1930 | — | 92 | — | 92 |
| 1931 | 1 | 136 | — | 137 |
| 1932 | 22 | 123 | — | 145 |
| 1933 | 15 | 298 | — | 313 |
| 1934 | — | 174 | — | 174 |
| 1935 | 39 | 158 | — | 197 |
| 1936 | 85 | 177 | 4 | 266 |
| 1937 | 125 | 31 | 29 | 185 |
| 1938 | 103 | 76 | 15 | 194 |
| 1939 | 75 | 4 | 8 | 87 |
| 1940 | 517 | — | 31 | 548 |
| 1941 | 231 | 10 | 41 | 282 |
| 1942 | 159 | 143 | 68 | 370 |
| 1943 | 215 | 533 | 10 | 758 |
| 1944 | 313 | 517 | 26 | 856 |
| 1945 | 1,118 | 616 | 91 | 1,825 |
| 1946 | 418 | 267 | 9 | 694 |
| 1947 | 1,040 | 380 | 123 | 1,543 |
| 1948 | 869 | 399 | 363 | 1,487 |
| 1949 | 1,314 | 406 | 66 | 1,786 |
| 1950 | 1,156 | 655 | 1 | 1,812 |
| 1951 | 1,567 | 1,298 | — | 2,865 |
| 1952 | 3,253 | 1,253 | — | 4,506 |
| 1953 | 4,251 | 1,316 | — | 5,567 |
| 1954 | 4,249 | 1,030 | — | 5,279 |
| 1955 | 4,866 | 968 | — | 5,834 |
| 1956 | 8,160 | 1,249 | — | 9,709 |
| 1957 | 12,437 | 2,232 | — | 14,669 |
| 1958 | 13,314 | 1,255 | — | 14,569 |
| 1959 | 16,442 | 1,433 | — | 17,875 |
| 1960 | 14,472 | 1,141 | — | 15,613 |
| 1961 | 15,777 | 969 | — | 16,746 |
| 1962 | 17,491 | 925 | — | 18,416 |
| 1963 | 12,425 | 949 | — | 13,374 |
| 1964 | 11,888 | 1,657 | — | 13,545 |
| Total | 148,451 | 27,841 | 1,021 | 177,313 |

South Australian production of asbestos from 1955 not included in total, because of low grade.

ASBESTOS—EXPORTS—AUSTRALIA

| Year | Chrysotile[a] | | Crocidolite[a] | | Other[a] | | Total | |
|---|---|---|---|---|---|---|---|---|
| | short tons | £, f.o.b. | short tons | £, f.o.b. | short tons | £, f.o.b. | short tons | £, f.o.b. |
| 1936–37 | — | — | — | — | — | — | — | — |
| 1937–38 | — | — | — | — | — | — | 357 | 18,933 |
| 1938–39 | — | — | — | — | — | — | 409 | 14,524 |
| 1939–40 | — | — | — | — | — | — | 552 | 9,915 |
| 1940–41 | — | — | — | — | — | — | 318 | 10,692 |
| 1941–42 | — | — | — | — | — | — | 114 | 4,104 |
| 1942–43 | — | — | — | — | — | — | 30 | 647 |
| 1943–44 | — | — | — | — | — | — | 97 | 2,455 |
| 1944–45 | — | — | — | — | — | — | 113 | 7,843 |
| 1946 | — | — | — | — | — | — | 556 | 22,616 |
| 1947 | — | — | — | — | — | — | 730 | 26,896 |
| 1948 | — | — | — | — | — | — | 311 | 12,615 |
| 1949 | — | — | — | — | — | — | 388 | 25,029 |
| 1950 | — | — | — | — | — | — | 431 | 40,631 |
| 1951 | — | — | — | — | — | — | 659 | 79,246 |
| 1952 | — | — | — | — | — | — | 1,310 | 190,440 |
| 1953 | — | — | — | — | — | — | 2,579 | 388,450 |
| 1954 | — | — | — | — | — | — | 1,891 | 257,871 |
| 1955 | 73 | 8,747 | 7,253 | 627,205 | 20 | 1,618 | 7,346 | 637,570 |
| 1956 | 40 | 3,449 | 7,579 | 711,797 | 101 | 5,577 | 7,720 | 720,823 |
| 1957 | 378 | 19,174 | 10,892 | 1,186,367 | 59 | 6,941 | 11,329 | 1,212,482 |
| 1958 | 264 | 12,308 | 10,049 | 904,000 | 120 | 16,712 | 10,433 | 933,020 |
| 1959 | 197 | 9,592 | 12,684 | 1,223,402 | 93 | 11,898 | 12,974 | 1,244,892 |
| 1960 | 25 | 1,303 | 8,177 | 773,292 | 97 | 9,889 | 8,299 | 784,484 |
| 1961 | 6 | 377 | 7,981 | 792,346 | 73 | 7,905 | 8,060 | 800,628 |
| 1962 | 2 | 127 | 9,685 | 975,634 | 51 | 4,672 | 9,738 | 980,433 |
| 1963 | 10 | 505 | 2,569 | 236,247 | 50 | 4,684 | 2,629 | 241,436 |
| 1964 | — | — | 7,280 | 654,246 | — | — | 7,280 | 654,246 |

[a] Not recorded separately before 1st July, 1954.

## ASBESTOS—IMPORTS—AUSTRALIA

| Year | Chrysotile[a] | | Amosite[a] | | Crocidolite[a] | | Other[a] | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|
| | short tons | £, f.o.b. | short tons | £, f.o.b. | short tons | £, f.o.b. | short tons | £, f.o.b. | short tons | £, f.o. |
| 1929–30 | — | — | — | — | — | — | — | — | 2,831 | 54,3 |
| 1930–31 | — | — | — | — | — | — | — | — | 1,183 | 19,6 |
| 1931–32 | — | — | — | — | — | — | — | — | 343 | 6,3 |
| 1932–33 | — | — | — | — | — | — | — | — | 1,138 | 22,5 |
| 1933–34 | — | — | — | — | — | — | — | — | 2,001 | 39,3 |
| 1934–35 | — | — | — | — | — | — | — | — | 3,809 | 69,0 |
| 1935–36 | — | — | — | — | — | — | — | — | 6,233 | 107,4 |
| 1936–37 | — | — | — | — | — | — | — | — | 6,144 | 99,3 |
| 1937–38 | — | — | — | — | — | — | — | — | 10,810 | 169,7 |
| 1938–39 | — | — | — | — | — | — | — | — | 10,323 | 203,4 |
| 1939–40 | — | — | — | — | — | — | — | — | 14,844 | 263,1 |
| 1940–41 | — | — | — | — | — | — | — | — | 17,115 | 411,9 |
| 1941–42 | — | — | — | — | — | — | — | — | 13,591 | 357,9 |
| 1942–43 | — | — | — | — | — | — | — | — | 20,960 | 564,3 |
| 1943–44 | — | — | — | — | — | — | — | — | 13,696 | 344,4 |
| 1944–45 | — | — | — | — | — | — | — | — | 18,826 | 569,2 |
| 1946 | 11,066 | 350,123 | 510 | 13,063 | 193 | 7,498 | 9,173 | 310,579 | 20,942 | 681,2 |
| 1947 | 10,623 | 400,827 | 2,143 | 69,298 | — | — | 3,190 | 86,606 | 15,950 | 556,7 |
| 1948 | 8,360 | 352,846 | 3,435 | 104,414 | 345 | 12,952 | 4,535 | 171,273 | 16,675 | 641,4 |
| 1949 | 6,808 | 340,821 | 5,240 | 192,974 | 522 | 42,603 | 3,983 | 163,540 | 16,553 | 739,9 |
| 1950 | 11,685 | 696,267 | 16,837 | 476,270 | 741 | 54,504 | 3,818 | 213,551 | 33,081 | 1,440,5 |
| 1951 | 12,192 | 736,584 | 10,059 | 471,305 | 115 | 10,112 | 6,517 | 355,648 | 28,883 | 1,573,6 |
| 1952 | 12,995 | 896,914 | 13,879 | 712,860 | 200 | 23,925 | 3,980 | 277,139 | 31,054 | 1,910,8 |
| 1953 | 20,359 | 1,319,744 | 8,434 | 334,873 | 675 | 68,274 | 231 | 15,177 | 29,699 | 1,738,0 |
| 1954 | 28,734 | 2,177,688 | 8,819 | 391,629 | 346 | 32,508 | 56 | 6,507 | 37,955 | 2,608,3 |
| 1955 | 31,003 | 2,369,203 | 13,509 | 640,213 | 116 | 11,234 | 164 | 13,566 | 44,792 | 3,034,2 |
| 1956 | 18,345 | 1,349,193 | 10,645 | 453,337 | 65 | 5,057 | 525 | 34,525 | 29,580 | 1,842,1 |
| 1957 | 22,873 | 1,797,558 | 10,322 | 542,552 | 165 | 12,744 | 528 | 24,134 | 33,888 | 2,376,9 |
| 1958 | 23,468 | 1,750,604 | 13,984 | 667,040 | 311 | 31,081 | 1,185 | 43,994 | 38,888 | 2,492,7 |
| 1959 | 24,316 | 1,812,134 | 12,019 | 582,264 | 328 | 26,444 | 1,667 | 81,058 | 38,330 | 2,501,9 |
| 1960 | 28,832 | 1,894,744 | 10,138 | 532,788 | 74 | 5,525 | 1,958 | 74,428 | 41,002 | 2,507,4 |
| 1961 | 27,210 | 1,797,257 | 8,705 | 461,627 | 84 | 5,120 | 902 | 46,362 | 36,901 | 2,310,3 |
| 1962 | 29,707 | 1,954,922 | 7,079 | 377,548 | 19 | 1,751 | 2,300 | 102,387 | 39,105 | 2,436,6 |
| 1963 | 26,532 | 1,622,091 | 7,019 | 354,663 | 89 | 7,536 | 2,988 | 121,056 | 36,628 | 2,105,3 |
| 1964 | 32,075 | 1,896,291 | 7,373 | 396,430 | 27 | 2,239 | 3,421 | 141,607 | 42,896 | 2,436,5 |

[a] Not recorded separately before 1st July, 1945.

ASBESTOS PRODUCTION—NEW SOUTH WALES

| Year | Gundagai District (Jones Creek) | Orange District (Byng and Lewis Ponds) | Barraba District (Woods Reef) | Copmanhurst District (Baryulgil) | Total | | Grand Total |
|---|---|---|---|---|---|---|---|
| | Amphibole | Amphibole | Chrysotile | Chrysotile | Amphibole | Chrysotile | |
| | short tons | short tons | short tons | short tons | short tons | short tons | short tons |
| 1880 | 14 | — | — | — | 14 | — | 14 |
| 1881 | — | — | — | — | — | — | — |
| 1882 | 8 | — | — | — | 8 | — | 8 |
| 1883–84 | — | — | — | — | — | — | — |
| 1885 | 7 | — | — | — | 7 | — | 7 |
| 1886–06 | — | — | — | — | — | — | — |
| 1907 | 6 | — | — | — | 6 | — | 6 |
| 1908 | — | — | — | — | — | — | — |
| 1909 | 17 | — | — | — | 17 | — | 17 |
| 1910–14 | — | — | — | — | — | — | — |
| 1915 | † | — | — | — | † | — | † |
| 1916 | — | — | — | — | — | — | — |
| 1917 | 11 | — | — | — | 11 | — | 11 |
| 1918 | — | — | e10 | — | — | e10 | 10 |
| 1919 | — | 13 | 160 | — | 13 | 160 | 173 |
| 1920 | — | 9 | 735 | — | 9 | 735 | 744 |
| 1921 | 18 | 27 | 1,014 | — | 45 | 1,014 | 1,059 |
| 1922 | — | — | 628 | — | — | 628 | 628 |
| 1923 | — | — | 228 | — | — | 228 | 228 |
| 1924–25 | — | — | — | — | — | — | — |
| 1926 | — | 5 | — | — | 5 | — | 5 |
| 1927–30 | — | — | — | — | — | — | — |
| 1931 | — | — | — | — | — | 9 | 9 |
| 1932–39 | — | — | — | — | — | — | — |
| 1940 | — | 9 | — | — | 9 | — | 9 |
| 1941 | — | 41 | — | — | 41 | — | 41 |
| 1942 | — | 41 | — | 118 | 41 | 118 | 159 |
| 1943 | — | — | — | 454 | — | 454 | 454 |
| 1944 | — | — | — | 389 | — | 389 | 389 |
| 1945 | — | — | — | 284 | — | 284 | 284 |
| 1946 | — | — | — | 267 | — | 267 | 267 |
| 1947 | — | 39 | — | 281 | 39 | 281 | 320 |
| 1948 | — | 45 | — | 319 | 45 | 319 | 364 |
| 1949 | — | 66 | — | 248 | 66 | 248 | 314 |
| 1950 | — | — | — | 419 | — | 419 | 419 |
| 1951 | — | — | — | 484 | — | 484 | 484 |
| 1952 | — | — | — | 522 | — | 522 | 522 |
| 1953 | — | — | — | 637 | — | 637 | 637 |
| 1954 | — | — | — | 690 | — | 690 | 690 |
| 1955 | — | — | — | 661 | — | 661 | 661 |
| 1956 | — | — | — | 697 | — | 697 | 697 |
| 1957 | — | — | — | 676 | — | 676 | 676 |
| 1958 | — | — | — | 712 | — | 712 | 712 |
| 1959 | — | — | — | 726 | — | 726 | 726 |
| 1960 | — | — | — | 1,072 | — | 1,072 | 1,072 |
| 1961 | — | — | — | 794 | — | 794 | 794 |
| 1962 | — | — | — | 866 | — | — | 866 |
| 1963 | — | — | — | 938 | — | — | 938 |
| 1964 | — | — | — | 1,057 | — | — | 1,057 |
| Total | 81 | 295 | 2,775 | 13,311 | 376 | 13,234 | 16,471 |

ASBESTOS PRODUCTION—TASMANIA

| Year | Beaconsfield District (Anderson's Creek) | Zeehan District and Asbestos Point, etc. | Beaconsfield District (Anderson's Creek) | Total | | Grand Total |
|---|---|---|---|---|---|---|
| | Chrysotile | Chrysotile | Amphibole | Chrysotile | Amphibole | |
| | short tons | short tons | short tons | short tons | short tons | short tons |
| 1899 | 22 | — | — | 22 | — | 22 |
| 1900 | 14 | — | — | 14 | — | 14 |
| 1901 | 5 | — | — | 5 | — | 5 |
| 1902–15 | — | — | — | — | — | — |
| 1916 | 2 | — | — | 2 | — | 2 |
| 1917 | 30 | — | — | 30 | — | 30 |
| 1918 | 320 | — | — | 320 | — | 320 |
| 1919 | 57 | — | — | 57 | — | 57 |
| 1920–36 | — | — | — | — | — | — |
| 1937 | — | — | 2 | — | 2 | 2 |
| 1938 | — | — | 5 | — | 5 | 5 |
| 1939–40 | — | — | — | — | — | — |
| 1941 | — | [a]4 | — | 4 | — | 4 |
| 1942 | — | [ab]8 | — | 8 | — | 8 |
| 1943 | — | 20 | — | 20 | — | 20 |
| 1944 | — | 115 | — | 115 | — | 115 |
| 1945 | — | 310 | — | 310 | — | 310 |
| 1946–64 | — | — | — | — | — | — |
| Total | [c]450 | 457 | 7 | 907 | 7 | 914 |

[a] From Asbestos Point. [b] Trial parcel of ore; asbestos content not stated.
[c] Quantity of asbestos produced 1899–1918 estimated as 10 per cent. of rock milled.

## ASBESTOS PRODUCTION—SOUTH AUSTRALIA

| Year | Robertstown | Cowell | Lyndoch and Kenton Valley | Total | | | Grand Total |
|---|---|---|---|---|---|---|---|
| | Crocidolite | Chrysotile | Amphibole | Crocidolite | Chrysotile | Amphibole | |
| | short tons | short tons | short tons | short tons | short tons | short tons | short tons |
| 1915 | † | — | — | † | — | — | † |
| 1916 | 24 | — | — | 24 | — | — | 24 |
| 1917–19 | — | — | — | — | — | — | — |
| 1920 | 6 | — | — | 6 | — | — | 6 |
| 1921 | 2 | — | — | 2 | — | — | 2 |
| 1922 | — | — | — | — | — | — | — |
| 1923 | 8 | — | — | 8 | — | — | 8 |
| 1924 | 4 | — | — | 4 | — | — | 4 |
| 1925–28 | — | — | — | — | — | — | — |
| 1929 | — | [b]1 | — | — | 1 | — | 1 |
| 1930 | — | — | — | — | — | — | — |
| 1931 | 1 | [c]6 | — | 1 | 6 | — | 7 |
| 1932 | 22 | — | — | 22 | — | — | 22 |
| 1933 | 15 | — | — | 15 | — | — | 15 |
| 1934 | — | — | — | — | — | — | — |
| 1935 | 39 | — | — | 39 | — | — | 39 |
| 1936 | 85 | — | [g]4 | 85 | — | 4 | 89 |
| 1937 | 109 | — | [h]27 | 109 | — | 27 | 136 |
| 1938 | 43 | [d]1 | [j]10 | 43 | 1 | 10 | 54 |
| 1939 | 45 | [d]3 | [j]2 | 45 | 3 | 2 | 5 |
| 1940 | 109 | — | [g]22 | 109 | — | 22 | 131 |
| 1941 | 108 | — | — | [a]168 | — | — | 168 |
| 1942 | 65 | [f]6 | — | 65 | 6 | — | 71 |
| 1943 | 12 | — | — | 12 | — | — | 12 |
| 1944 | 7 | — | — | 7 | — | — | 7 |
| 1945 | 8 | — | — | 8 | — | — | 8 |
| 1946 | 9 | — | — | 9 | — | — | 9 |
| 1947 | [k]30 | — | — | [l]44 | — | — | 44 |
| 1948 | 45 | — | — | [m]189 | — | — | 189 |
| 1949 | 19 | — | — | 19 | — | — | 19 |
| 1950 | 15 | — | — | 15 | — | — | 15 |
| 1951 | 7 | — | — | 7 | — | — | 7 |
| 1952 | — | — | — | — | — | — | — |
| 1953 | — | — | — | — | — | — | — |
| 1954 | — | — | — | — | — | — | — |
| 1955 | — | — | 211 | — | — | — | 211 |
| 1956 | — | — | 140 | — | — | — | 140 |
| 1957 | — | — | 91 | — | — | — | 91 |
| 1958 | — | — | 143 | — | — | — | 143 |
| 1959 | — | — | 84 | — | — | — | 84 |
| 1960 | — | — | 140 | — | — | — | 140 |
| 1961 | — | — | 65 | — | — | — | [n]109 |
| 1962 | — | — | 184 | — | — | — | [p]193 |
| 1963 | — | — | 211 | — | — | — | 211 |
| 1964 | — | — | 188 | — | — | — | 188 |
| Total | — | — | — | — | — | — | 2,602 |

[a] Including 60 tons value £955 from Oraparinna Station. [b] Hd., Miltalie. [c] 4 tons value £74 Hd. Miltalie, 1 ton value £8 Hd. Minbrie. [d] Hd. Minbrie. [f] Hd. Hawker. [g] Lyndoch. [h] 18 Kenton Valley, 9 Lyndoch. [j] Kenton Valley. [k] 24 tons Hd. Apoinga, 7 tons Hd. Bright. [l] Including 13 tons from Oraparinna Station. [m] Including 144 tons from Oraparinna Station. [n] Including 44 tons of tremolite from Hd. Jellicoe. [p] Including 9 tons of tremolite from Hd. Jellicoe.

ASBESTOS PRODUCTION—WESTERN AUSTRALIA

| Year | Pilbara Goldfield | | | Total Chrysotile | Total Amphibole | Total Crocidolite | Grand Total |
|---|---|---|---|---|---|---|---|
| | Lionel | Soanesville and Dead Bullock Well | Sherlock and Nunyerri | | Bindi Bindi | Hamersley Ranges | |
| | Chrysotile | Chrysotile | Chrysotile | | | | |
| | short tons | short tons | short tons | short tons | short tons | short tons | short tons |
| 1908 | — | 45 | — | 45 | — | — | 45 |
| 1909 | — | 3 | — | 3 | — | — | 3 |
| 1910–18 | — | — | — | — | — | — | — |
| 1919 | 59 | — | — | 59 | — | — | 59 |
| 1920 | 139 | 36 | — | 175 | — | — | 175 |
| 1921 | 227 | 37 | — | 264 | — | — | 264 |
| 1922 | 201 | 3 | — | 204 | — | — | 204 |
| 1923 | 124 | 3 | — | 127 | — | — | [f]127 |
| 1924 | 82 | — | — | 82 | — | — | 82 |
| 1925 | 56 | — | 1 | 57 | — | — | 57 |
| 1926 | 102 | — | 16 | 118 | — | — | 118 |
| 1927 | 12 | — | — | 12 | — | — | 12 |
| 1928 | 7 | 6 | — | 13 | — | — | 13 |
| 1929 | — | 71 | 219 | 290 | — | — | 290 |
| 1930 | — | 73 | 19 | 92 | — | — | 92 |
| 1931 | — | 3 | 118 | 121 | — | — | 121 |
| 1932 | — | — | 123 | 123 | — | — | 123 |
| 1933 | — | 8 | 284 | [g]298 | — | — | 298 |
| 1934 | — | — | 174 | 174 | — | — | 174 |
| 1935 | — | — | 158 | 158 | — | — | 158 |
| 1936 | — | 12 | 162 | [g]177 | — | — | 177 |
| 1937 | 22 | — | — | [g]31 | — | 16 | 47 |
| 1938 | 74 | 1 | — | 75 | — | 60 | 135 |
| 1939 | — | 1 | — | 1 | [h]6 | 30 | 37 |
| 1940 | — | — | — | — | — | 408 | 408 |
| 1941 | — | — | 6 | 6 | — | 63 | 69 |
| 1942 | — | — | 12 | 12 | 27 | 94 | 133 |
| 1943 | 14 | — | [b]45 | 59 | 10 | 203 | 272 |
| 1944 | — | — | 13 | 13 | 26 | 306 | 345 |
| 1945 | — | — | 22 | 22 | [j]91 | 1,110 | 1,223 |
| 1946 | — | — | — | — | [j]9 | 409 | 418 |
| 1947 | — | — | 99 | 99 | 84 | 996 | 1,179 |
| 1948 | — | — | 80 | 80 | 318 | 680 | 1,078 |
| 1949 | — | — | 158 | 158 | — | 1,295 | 1,453 |
| 1950 | — | — | 236 | 236 | 1 | 1,141 | 1,378 |
| 1951 | 123 | — | 691 | 814 | — | 1,560 | 2,374 |
| 1952 | 216 | — | 515 | 731 | — | 3,253 | 3,984 |
| 1953 | 383 | — | 296 | 679 | — | 4,251 | 4,930 |
| 1954 | 140 | — | 200 | 340 | — | 4,249 | 4,589 |
| 1955 | 18 | — | 289 | 307 | — | 4,866 | 5,173 |
| 1956 | 299 | — | 553 | 852 | — | 8,160 | 9,012 |
| 1957 | 1,152 | — | 404 | 1,556 | — | 12,437 | 13,993 |
| 1958 | 1,353 | — | 190 | 1,543 | — | 13,314 | 14,857 |
| 1959 | 669 | — | 38 | 707 | — | 16,442 | 17,149 |
| 1960 | — | — | 69 | 69 | — | 14,472 | 14,541 |
| 1961 | 55 | — | 120 | 175 | — | 15,777 | 15,952 |
| 1962 | — | — | 59 | 59 | — | 17,491 | 17,550 |
| 1963 | — | — | 11 | 11 | — | 12,425 | 12,436 |
| 1964 | — | — | 600 | 600 | — | 11,888 | 12,488 |
| Total | 5,527 | [a]302 | 5,980 | 11,827 | 572 | [d]147,396 | 159,795 |

[a] Approximately 22 tons from Dead Bullock Well. [b] Includes 6 tons purchased from various producers in Marble Bar district. [c] Approximately 912 tons from Sherlock. [d] Probably greatly understated. [f] Including 1 ton chrysotile valued at £17 from Roebourne. [g] Including Silver Sheen production: 1933, 6 tons value £197; 1936, 3 tons value £189; 1937, 9 tons value £700. [h] From Bulong, East Coolgardie Goldfield. [j] Including small production from Bulong.

# BARITE

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## BARITE PRODUCTION—AUSTRALIA

| Year | New South Wales | Victoria (Butchers Ridge) | Tasmania | South Australia | Western Australia (Cranbrook) | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1906 | 150 | — | — | — | — | 150 |
| 1907–8 | — | — | — | — | — | — |
| 1909 | 100 | — | — | — | — | 100 |
| 1910 | 343 | — | — | 60 | — | 403 |
| 1911 | 290 | — | 50 | — | — | 340 |
| 1912 | 394 | — | — | — | — | 394 |
| 1913 | 438 | — | — | 103 | — | 541 |
| 1914 | 158 | — | — | 560 | — | 718 |
| 1915 | 78 | — | — | 290 | — | 368 |
| 1916 | 685 | — | 83 | 456 | — | 1,224 |
| 1917 | 368 | — | 52 | 790 | — | 1,210 |
| 1918 | 382 | — | 217 | 1,353 | — | 1,952 |
| 1919 | 579 | — | 558 | 1,753 | — | 2,890 |
| 1920 | 222 | — | 1,029 | 2,542 | — | 3,793 |
| 1921 | 200 | — | — | 1,269 | † | 1,469 |
| 1922 | — | — | — | 1,878 | 19 | 1,897 |
| 1923 | 100 | — | — | 1,761 | — | 1,861 |
| 1924 | 150 | — | — | 2,061 | — | 2,211 |
| 1925 | 200 | — | 4 | 2,008 | — | 2,212 |
| 1926 | 200 | — | — | 1,742 | — | 1,942 |
| 1927 | 200 | — | — | 1,886 | — | 2,086 |
| 1928 | 20 | — | — | 2,366 | — | 2,386 |
| 1929 | 152 | — | 10 | 1,969 | 2 | 2,133 |
| 1930 | 173 | — | — | 1,535 | — | 1,708 |
| 1931 | 122 | — | — | 1,445 | — | 1,567 |
| 1932 | 304 | — | — | 1,701 | — | 2,005 |
| 1933 | 318 | — | 5 | 1,772 | — | 2,095 |
| 1934 | 184 | — | — | 2,308 | — | 2,492 |
| 1935 | 204 | — | — | 2,340 | — | 2,544 |
| 1936 | 147 | — | 33 | 1,977 | — | 2,157 |
| 1937 | 264 | 70 | 76 | 2,693 | — | 3,103 |
| 1938 | 317 | — | — | 2,863 | — | 3,180 |
| 1939 | 324 | — | — | 3,825 | — | 4,149 |
| 1940 | 1,317 | — | 36 | 3,614 | — | 4,967 |
| 1941 | 1,326 | — | 11 | 3,574 | — | 4,911 |
| 1942 | 2,839 | — | — | 3,571 | — | 6,410 |
| 1943 | 1,525 | — | — | 3,012 | — | 4,537 |
| 1944 | 777 | — | — | 3,639 | — | 4,416 |
| 1945 | 977 | — | — | 2,470 | — | 3,447 |
| 1946 | 1,440 | — | 33 | 6,106 | 10 | 7,589 |
| 1947 | 1,684 | — | — | 3,729 | — | 5,413 |
| 1948 | 1,011 | — | 9 | 2,759 | — | 3,779 |
| 1949 | 1,969 | — | — | 3,495 | — | 5,464 |
| 1950 | 1,303 | — | — | 4,614 | 16 | 5,933 |
| 1951 | 879 | — | — | 5,294 | 5 | 6,178 |
| 1952 | 827 | — | — | 4,108 | [a]9 | 4,944 |
| 1953 | 1,255 | — | — | 4,210 | [b]212 | 5,677 |
| 1954 | 2,000 | — | — | 3,828 | [c]1,044 | 6,872 |

[a] From Coonana, Murchison. [b] 42 tons from Coonana. [c] 112 tons from Chesterfield, Murchison. [d] 426 tons from Chesterfield, Murchison.

BARITE PRODUCTION—AUSTRALIA—*continued*

| Year | New South Wales | Victoria Butchers Ridge | Tasmania | South Australia | Western Australia (Cranbrook) | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1955 | 2,086 | — | — | 4,168 | 10 | 6,264 |
| 1956 | 1,042 | — | — | 4,040 | [d]927 | 6,009 |
| 1957 | 5,415 | — | — | 4,223 | 140 | 9,778 |
| 1958 | 3,991 | — | — | 2,811 | — | 6,802 |
| 1959 | 60 | — | — | 6,145 | — | 6,214 |
| 1960 | 60 | — | — | 11,357 | — | 11,417 |
| 1961 | 60 | — | — | 19,157 | — | 19,217 |
| 1962 | 435 | — | — | 11,605 | 494 | 12,534 |
| 1963 | 1,540 | — | — | 6,680 | — | 8,220 |
| 1964 | 1,299 | — | — | 10,831 | 172 | 12,302 |
| Total | 44,883 | 70 | 2,206 | 186,346 | 5,160 | 238,665 |

[a] From Coonana, Murchison. [b] 42 tons from Coonana. [c] 112 tons from Chesterfield, Murchison. [d] 426 tons from Chesterfield, Murchison.

BARITE—EXPORTS AND IMPORTS—AUSTRALIA

| Year | EXPORTS Barite | | IMPORTS Barite | | IMPORTS Barium Sulphate[a] | | IMPORTS Lithopone | |
|---|---|---|---|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1939–40 | [b] | [b] | 66 | 2,142 | [b] | [b] | 2,478 | 59,034 |
| 1940–41 | [b] | [b] | 46 | 1,108 | [b] | [b] | 2,965 | 72,782 |
| 1941–42 | 1,785 | 13,488 | 9 | 839 | [b] | [b] | 2,482 | 65,443 |
| 1942–43 | 1,617 | 14,798 | 22 | 225 | [b] | [b] | 884 | 27,969 |
| 1943–44 | 522 | 6,619 | † | 84 | [b] | [b] | 1,431 | 47,185 |
| 1944–45 | 1,217 | 14,494 | 14 | 540 | [b] | [b] | 516 | 17,549 |
| 1946 | 1,625 | 15,763 | — | — | [c]154 | [c]3,679 | [c]1,329 | [c]47,380 |
| 1947 | 2,518 | 24,186 | — | — | [c]168 | [c]4,689 | [c]793 | [c]35,337 |
| 1948 | 1,606 | 17,357 | — | — | [c]68 | [c]2,117 | [c]1,704 | [c]149,356 |
| 1949 | 1,999 | 21,513 | 3 | 80 | [c]41 | [c]2,209 | [c]2,595 | [c]162,243 |
| 1950 | 2,524 | 30,517 | 57 | 1,031 | 213 | 6,929 | 2,467 | 132,285 |
| 1951 | 1,527 | 24,989 | 43 | 1,280 | 747 | 32,994 | 3,666 | 463,962 |
| 1952 | 1,432 | 30,715 | 49 | 1,081 | 563 | 26,995 | 3,236 | 347,269 |
| 1953 | 957 | 19,344 | 18 | 489 | 89 | 4,053 | 871 | 55,902 |
| 1954 | 1,932 | 34,265 | 18 | 322 | 175 | 9,097 | 2,014 | 138,696 |
| 1955 | 940 | 14,661 | 281 | 3,285 | 433 | 15,151 | 2,001 | 139,253 |
| 1956 | 757 | 14,197 | 213 | 2,494 | 452 | 18,367 | 2,523 | 193,888 |
| 1957 | 3,377 | 54,780 | 96 | 1,474 | 612 | 21,348 | 1,675 | 116,838 |
| 1958 | 2,494 | 41,726 | 241 | 3,774 | 425 | 17,278 | 1,592 | 107,069 |
| 1959 | 1,108 | 17,499 | 401 | 5,130 | 389 | 14,395 | 1,509 | 97,091 |
| 1960 | 7,650 | 103,939 | 123 | 2,044 | 592 | 23,242 | 1,800 | 113,470 |
| 1961 | 5,902 | 80,697 | [b] | — | 272 | 12,512 | 1,123 | 78,507 |
| 1962 | 1,663 | 25,662 | — | — | 354 | 19,925 | 1,739 | 121,618 |
| 1963 | 2,600 | 27,480 | — | — | n.a. | n.a. | 1,255 | 88,215 |
| 1964 | 6,209 | 75,452 | — | — | n.a. | n.a. | 1,163 | 88,177 |

[a] Includes Blanc Fixe. [b] Not recorded separately. [c] Year ended 30th June.

## BARITE PRODUCTION—NEW SOUTH WALES

| Year | Mudgee District | Trunkey District | Canowindra District | Braidwood District | Captain's Flat District | Cootamundra District | Cobargo District | Miscellaneous | Total[m] |
|---|---|---|---|---|---|---|---|---|---|
| | Lue | Kempfield | Mandurama | Parish Jinglemoney | Parish Jinero | Bethungra | Parish Narira | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1906 | — | — | — | — | — | — | 150 | — | 150 |
| 1907 | — | — | — | — | — | — | — | — | — |
| | — | — | — | — | — | — | — | — | — |
| | — | — | — | — | — | — | 100 | — | 100 |
| 1910 | — | — | — | — | — | 343 | — | — | 343 |
| 1911 | 80 | — | — | — | — | 130 | 80 | — | 290 |
| 1912 | 292 | — | — | — | — | 102 | — | — | 394 |
| 1913 | 398 | — | — | — | — | — | 20 | [a]20 | 438 |
| 1914 | 158 | — | — | — | — | — | — | — | 158 |
| 1915 | 78 | — | — | — | — | — | — | — | 78 |
| 1916 | 185 | — | 500 | — | — | — | — | — | 685 |
| 1917 | 318 | — | — | — | 50 | — | — | — | 368 |
| 1918 | — | 212 | — | 40 | 30 | — | — | [b]100 | 382 |
| 1919 | 179 | — | 400 | — | — | — | — | — | 579 |
| 1920 | — | — | 212 | — | — | — | — | [c]10 | 222 |
| 1921 | — | — | 200 | — | — | — | — | — | 200 |
| 1922 | — | — | — | — | — | — | — | — | — |
| 1923 | — | 100 | — | — | — | — | — | — | 100 |
| 1924 | — | 150 | — | — | — | — | — | — | 150 |
| 1925 | — | 200 | — | — | — | — | — | — | 200 |
| 1926 | — | 200 | — | — | — | — | — | — | 200 |
| 1927 | — | 200 | — | — | — | — | — | — | 200 |
| 1928 | — | 20 | — | — | — | — | — | — | 20 |
| 1929 | 152 | — | — | — | — | — | — | — | 152 |
| 1930 | 81 | 20 | — | — | — | — | — | [d]72 | 173 |
| 1931 | 56 | 16 | — | — | — | — | — | [f]50 | 122 |
| 1932 | 154 | 100 | 50 | — | — | — | — | — | 304 |
| 1933 | 12 | 300 | — | — | — | — | — | — | [l]318 |
| 1934 | 50 | 80 | — | — | — | — | — | [g]54 | 184 |
| 1935 | 131 | 50 | — | — | — | — | | — | [l]204 |
| 1936 | 127 | 20 | — | — | — | — | Total | — | 147 |
| 1937 | 195 | 15 | 15 | — | — | — | 350 | [h]39 | 264 |
| 1938 | 236 | 40 | — | — | — | — | | [k]41 | 317 |
| 1939 | 284 | 30 | — | — | — | — | Goulburn District | — | [l]324 |
| 1940 | 313 | 857 | — | — | 108 | — | | [b]40 | 1,317 |
| 1941 | 119 | 1,012 | — | 48 | 147 | — | Garrunda | — | 1,326 |
| 1942 | — | 1,787 | — | 1,004 | 48 | — | | — | 2,839 |
| 1943 | — | 815 | — | 710 | — | — | — | — | 1,525 |
| 1944 | — | 765 | — | 12 | — | — | — | — | 777 |
| 1945 | — | 700 | — | 277 | — | — | — | — | 977 |
| 1946 | — | 1,121 | — | 258 | — | — | 61 | — | 1,440 |
| 1947 | — | 1,090 | — | 443 | — | — | 105 | [n]46 | 1,684 |
| 1948 | — | 1,000 | — | — | — | — | — | [p]11 | 1,011 |
| 1949 | — | 1,025 | — | — | — | — | 944 | [p]51 | 1,969 |

[a] Bunyan. [b] Rylstone. [c] Cavan. [d] 70 Wongalee, 2 Parkes District. [f] 30 Wongalee, 20 Parkes District. [g] Cudgegong. [h] Barallier. [k] 26 Rockley, 15 Young. [l] Not all accounted for in previous columns. [m] Not including production recorded as raised but not sold. [n] From the Cooma District. [p] From Upper Burrangorang.

BARITE PRODUCTION—NEW SOUTH WALES—*continued*

| Year | Mudgee District | Trunkey District | Canowindra District | Braidwood District | Captain's Flat District | Cootamundra District | Goulburn District | Miscellaneous | Total[m] |
|---|---|---|---|---|---|---|---|---|---|
| | Lue | Kempfield | Mandurama | Parish Jinglemoney | Parish Jinero | Bethungra | Garrunda | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1950 | — | 1,100 | — | — | — | — | 185 | [p]18 | 1,303 |
| 1951 | — | 866 | — | — | — | — | — | [p]13 | 879 |
| 1952 | — | 820 | — | — | — | — | — | [p]7 | 827 |
| 1953 | — | 1,255 | — | — | — | — | — | — | 1,255 |
| 1954 | 2 | 1,893 | — | — | — | 22 | 83 | — | 2,000 |
| 1955 | — | 1,860 | — | 8 | — | 67 | 150 | [p]1 | 2,086 |
| 1956 | — | 614 | — | 15 | — | — | 413 | — | 1,042 |
| 1957 | — | 2,545 | — | — | — | — | 2,865 | [p]5 | 5,415 |
| 1958 | — | 1,863 | — | — | — | — | 2,119 | [p]9 | 3,991 |
| 1959 | — | 60 | — | — | — | — | — | — | 60 |
| 1960 | — | 60 | — | — | — | — | — | — | 60 |
| 1961 | — | 60 | — | — | — | — | — | — | 60 |
| 1962 | — | 435 | — | — | — | — | — | — | 435 |
| 1963 | — | 1,540 | — | — | — | — | — | — | 1,540 |
| 1964 | — | 1,299 | — | — | — | — | — | — | 1,299 |
| Total | 3,600 | 28,195 | 1,377 | 2,815 | 383 | 664 | 6,925 | 587 | 44,883 |

[a] Bunyan. [b] Rylstone. [c] Cavan. [d] 70 Wongalee, 2 Parkes District. [f] 30 Wongalee, 20 Parkes District. [g] Cudgegong. [h] Barallier. [k] 26 Rockley, 15 Young. [l] Not all accounted for in previous columns. [m] Not including production recorded as raised but not sold. [n] From the Cooma District. [p] From Upper Burrangorang.

| Year | Noarlunga | Aldgate, etc. | Inglewood-Birdwood | Eudunda-Truro | Pernatty Lagoon | Mt. Whyalla | Saltia | Oladdie | Blinman and Martin Well | Oraparinna | Mt. Serle and Mt. Chambers | Hundreds Mordana | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hundred Willunga | Hundreds Noarlunga, Kuitpo, Onkaparinga | Hundreds Para-Wirra and Talunga | Hundreds Julia Creek, Kapunda, Jellicoe, Dutton | | | Hundred Woolundunga | Hundred Oladdie | | | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1910 | — | — | 60 | — | — | — | — | — | — | — | — | — | — | 60 |
| 1911 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1912 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1913 | — | 13 | — | — | — | — | 90 | — | — | — | — | — | 90 | 103 |
| 1914 | — | 160 | — | — | — | — | 400 | — | — | — | — | — | 400 | 560 |
| 1915 | — | 290 | — | — | — | — | — | — | — | — | — | — | — | 290 |
| 1916 | — | 356 | — | — | — | — | 100 | — | — | — | — | — | 100 | 456 |
| 1917 | — | 434 | — | 200 | 135 | — | 21 | — | — | — | — | — | 156 | 790 |
| 1918 | 670 | 570 | 25 | 88 | — | — | — | — | — | — | — | — | — | 1,353 |
| 1919 | 1,500 | 248 | 5 | — | — | — | — | — | — | — | — | — | — | 1,758 |
| 1920 | 1,723 | 500 | 117 | — | 202 | — | — | — | — | — | — | — | 202 | 2,542 |
| 1921 | 930 | 20 | 190 | — | 129 | — | — | — | — | — | — | — | 129 | 1,269 |
| 1922 | 1,735 | — | — | 30 | 113 | — | — | — | — | — | — | — | 113 | 1,878 |
| 1923 | 1,306 | — | 22 | 280 | 153 | — | — | — | — | — | — | — | 153 | 1,761 |
| 1924 | 1,243 | — | 23 | 785 | 10 | — | — | — | — | — | — | — | 10 | 2,061 |
| 1925 | 1,367 | — | — | 491 | — | — | — | 150 | — | — | — | — | — | 2,008 |
| 1926 | 1,512 | — | — | 100 | — | — | — | 130 | — | — | — | — | — | 1,742 |
| 1927 | 1,886 | — | — | — | — | — | — | — | — | — | — | — | — | 1,886 |
| 1928 | 1,387 | — | — | 979 | — | — | — | — | — | — | — | — | — | 2,366 |
| 1929 | 1,658 | — | — | 311 | — | — | — | — | — | — | — | — | — | 1,969 |
| 1930 | 1,127 | — | — | 408 | — | — | — | — | — | — | — | — | — | 1,535 |
| 1931 | 1,117 | — | — | 328 | — | — | — | — | — | — | — | — | — | 1,445 |
| 1932 | 1,329 | — | 55 | 317 | — | — | — | — | — | — | — | — | — | 1,701 |
| 1933 | 1,345 | 115 | 22 | 290 | — | — | — | — | — | — | — | — | — | 1,772 |
| 1934 | 1,981 | 47 | 8 | 272 | — | — | — | — | — | — | — | — | — | 2,308 |
| 1935 | 2,132 | — | — | 208 | — | — | — | — | — | — | — | — | — | 2,340 |
| 1936 | 1,974 | — | 3 | — | — | — | — | — | — | — | — | — | — | 1,977 |
| 1937 | 2,693 | — | — | — | — | — | — | — | — | — | — | — | — | 2,693 |
| 1938 | 2,435 | 110 | — | — | 135 | 183 | — | — | — | — | — | — | 318 | 2,863 |
| 1939 | 2,441 | 290 | — | — | 398 | 696 | — | — | — | — | — | — | 1,094 | 3,825 |

[a] 2,591 tons Hundred Noarlunga 1913–1921; 576 tons Hundred Kuitpo 1933–34 and 1939–40; 418 tons Hundred Onkaparinga 1938–40. [b] 530 tons Hundred Para-Wirra 1910–1936; 54 tons Hundred Talunga 1942–44. [c] 351 tons Hundreds Julia Creek and Kapunda 1917–34; 88 tons Hundred Jellicoe 1918, 1,408 tons Hundred Dutton 1923–32. [d] 66 tons Blinman; 452 Martin Well 1944. [f] 6 tons Mt. Serle 1940; 1,350 tons Mt. Chambers 1941–43.

| Year | Noarlunga | Aldgate, etc. | Inglewood-Birdwood | Eudunda-Truro | Pernatty Lagoon | Mt. Whyalla | Saltia | Oladdie | Blinman and Martin Well | Oraparinna | Mt. Serle and Mt. Chambers | Hundred Moralana | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Hundred Willunga | Hundreds Noarlunga, Kuitpo, Onkaparinga | Hundreds Para-Wirra and Talunga | Hundreds Julia Creek, Kapunda, Jellicoe, Dutton | | | Hundred Woolundunga | Hundred Oladdie | | | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1940 | 2,117 | 432 | — | — | — | 699 | 17 | 270 | 66 | 7 | 6 | — | 986 | 3,614 |
| 1941 | 2,303 | — | — | — | — | 80 | — | — | — | 513 | 678 | — | 80 | 3,574 |
| 1942 | 2,728 | — | 29 | — | — | — | — | — | — | 401 | 413 | — | — | 3,571 |
| 1943 | 2,673 | — | 16 | — | — | — | — | — | — | 64 | 259 | — | — | 3,012 |
| 1944 | 2,404 | — | 9 | — | — | — | 10 | — | 452 | 764 | — | — | 10 | 3,639 |
| 1945 | 1,577 | — | — | — | — | — | — | — | 391 | 227 | 47 | 53 | 175 | 2,470 |
| 1946 | 1,686 | — | 226 | 290 | — | — | — | — | 50 | 1,250 | 45 | 41 | 2,507 | 6,106 |
| 1947 | 1,482 | — | — | 405 | — | — | — | — | — | 1,049 | 265 | 86 | 409 | 3,729 |
| 1948 | 935 | — | — | 408 | — | — | — | — | — | 1,313 | 23 | 80 | — | 2,759 |
| 1949 | 704 | — | — | 337 | — | — | — | — | — | 2,445 | — | — | — | 3,495 |
| 1950 | 896 | — | — | 273 | — | — | — | — | 48 | 3,180 | 24 | 168 | — | 4,614 |
| 1951 | 1,081 | — | — | 330 | — | — | — | — | 44 | 2,878 | 191 | 746 | — | 5,294 |
| 1952 | 1,054 | — | — | 188 | — | — | — | — | 101 | 2,049 | 412 | 304 | — | 4,108 |
| 1953 | 640 | — | — | 281 | — | — | — | — | — | 2,253 | 704 | 332 | — | 4,210 |
| 1954 | 512 | — | — | 331 | — | — | — | — | — | 2,072 | 526 | 280 | 107 | 3,828 |
| 1955 | 370 | — | — | 326 | — | — | — | — | — | 2,476 | 820 | 163 | 13 | 4,168 |
| 1956 | 176 | — | — | 264 | — | — | — | — | — | 2,933 | 506 | 156 | 5 | 4,040 |
| 1957 | 280 | 62 | — | 96 | — | — | — | — | 301 | 3,285 | 92 | — | 107 | 4,223 |
| 1958 | — | 247 | — | 232 | — | — | — | — | 146 | 1,868 | 44 | — | 61 | 2,811 |
| 1959 | 29 | — | — | 114 | — | — | — | — | 247 | 5,405 | — | — | 20 | 6,145 |
| 1960 | 140 | — | — | — | — | — | — | — | 181 | 10,469 | 46 | 6 | 168 | 11,357 |
| 1961 | 226 | — | — | — | — | — | — | — | 114 | 18,243 | 16 | 18 | 256 | 19,157 |
| 1962 | — | — | — | — | — | — | — | — | 408 | 10,630 | 89 | 27 | 451 | 11,605 |
| 1963 | — | — | — | — | — | — | — | — | 530 | 5,580 | — | 154 | 416 | 6,680 |
| 1964 | — | — | — | — | — | — | — | — | 157 | 10,363 | — | — | 311 | 10,831 |
| Total | 59,504 | [a]3,894 | [b]810 | [c]8,962 | 1,275 | 1,658 | 638 | 550 | [d]3,236 | 91,717 | [f]5,206 | 2,614 | 8,847 | 186,346 |

[a] 2,591 tons Hundred Noarlunga 1913–1921; 576 tons Hundred Kuitpo 1933–34 and 1939–40; 418 tons Hundred Onkaparinga 1938–40. [b] 530 tons Hundred Para-Wirra 1910–1936; 54 tons Hundred Talunga 1942–44. [c] 351 tons Hundreds Julia Creek and Kapunda 1917–34; 88 tons Hundred Jellicoe 1918, 1,408 tons Hundred Dutton 1923–32. [d] 66 tons Blinman; 452 Martin Well 1944. [f] 6 tons Mt. Serle 1940; 1,350 tons Mt. Chambers 1941–43.

# BARITE

## BARITE PRODUCTION—TASMANIA

| Year | Howard's Plains | | Beulah | | Intercolonial Spur | | Port Sorell | | Riana | | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1911 | — | — | 50 | 100 | — | — | — | — | — | — | 50 |
| 1916 | 83 | 359 | — | — | — | — | — | — | — | — | 83 |
| 1917 | 52 | 234 | — | — | — | — | — | — | — | — | 52 |
| 1918 | 217 | 977 | — | — | — | — | — | — | — | — | 217 |
| 1919 | 388 | 1,160 | 170 | 726 | — | — | — | — | — | — | 558 |
| 1920 | 584 | 2,317 | 415 | 1,679 | 30 | 120 | — | — | — | — | 1,029 |
| 1921–24 | — | — | — | — | — | — | — | — | — | — | — |
| 1925 | — | — | — | — | — | — | 4 | 16 | — | — | 4 |
| 1926–28 | — | — | — | — | — | — | — | — | — | — | — |
| 1929 | — | — | — | — | — | — | — | — | 10 | 24 | 10 |
| 1930–32 | — | — | — | — | — | — | — | — | — | — | — |
| 1933 | — | — | — | — | — | — | 5 | 15 | — | — | 5 |
| 1934–35 | — | — | — | — | — | — | — | — | — | — | — |
| 1936 | 33 | 66 | — | — | — | — | — | — | — | — | 33 |
| 1937 | 76 | 174 | — | — | — | — | — | — | — | — | 76 |
| 1938–39 | — | — | — | — | — | — | — | — | — | — | — |
| 1940 | 36 | 58 | — | — | — | — | — | — | — | — | 36 |
| 1941 | — | — | — | — | — | — | — | — | 11 | 43 | 11 |
| 1942–45 | — | — | — | — | — | — | — | — | — | — | — |
| 1946 | 33 | 70 | — | — | — | — | — | — | — | — | 33 |
| 1947–58 | — | — | — | — | — | — | — | — | — | — | — |
| 1959 | 9 | 101 | — | — | — | — | — | — | — | — | 9 |
| 1960–64 | — | — | — | — | — | — | — | — | — | — | — |
| Total | 1,511 | 5,516 | 635 | 2,505 | 30 | 120 | 9 | 31 | 21 | 67 | 2,206 |

# BENTONITE AND FULLER'S EARTH

Bentonite and Fuller's Earth Production—Australia .. .. .. .. 54

Bentonite Imports—Australia .. .. .. .. .. .. .. 55

Fuller's Earth—Imports—Australia .. .. .. .. .. .. 55

## BENTONITE AND FULLER'S EARTH PRODUCTION—AUSTRALIA

| Year | Qld. | New South Wales | | | | | Western Australia | | | Total | | Gra |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bentonite and Bentonitic Clay | Fuller's Earth | | | Clay[a] | Total | Bentonite | Fuller's Earth | Total | Bentonite and Clay | Fuller's Earth | Tot |
| | Upper Yarraman | Boggabri | Mudgee | Dubbo | Trida | | Marchagee | Bardoc | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | ton |
| 1911 | — | 120 | — | — | — | 120 | — | — | — | — | 120 | 1 |
| 1912 | — | 53 | — | — | — | 53 | — | — | — | — | 53 | |
| 1913–15 | — | — | — | — | — | — | — | — | — | — | — | |
| 1916 | — | 110 | — | — | — | 110 | — | — | — | — | 110 | 1 |
| 1917 | — | 20 | — | — | — | 20 | — | — | — | — | 20 | |
| 1918–19 | — | — | — | — | — | — | — | — | — | — | — | |
| 1920 | — | 14 | — | — | — | 14 | — | — | — | — | 14 | |
| 1921 | — | — | — | — | — | — | — | — | — | — | — | |
| 1922 | — | 50 | — | — | — | 50 | — | — | — | — | 50 | |
| 1923 | — | 50 | — | — | — | 50 | — | — | — | — | 50 | |
| 1924 | — | 50 | — | — | — | 50 | — | — | — | — | 50 | |
| 1925 | — | — | 32 | — | — | 32 | — | — | — | — | 32 | |
| 1927–30 | — | — | — | — | — | — | — | — | — | — | — | |
| 1931 | — | 15 | — | — | — | 15 | — | 30 | 30 | — | 45 | |
| 1932 | — | 97 | — | — | — | 97 | — | — | — | — | 97 | |
| 1933 | — | 45 | — | — | — | 45 | — | — | — | — | 45 | |
| 1934 | — | 72 | — | — | — | 72 | — | — | — | — | 72 | |
| 1935 | — | 33 | — | — | — | 33 | — | — | — | — | 33 | |
| 1936 | — | — | — | — | — | — | — | — | — | — | — | |
| 1937 | 50 | — | — | — | — | — | — | — | — | 50 | — | |
| 1938 | 80 | — | — | — | — | — | — | — | — | 80 | — | |
| 1939 | 114 | — | — | — | — | — | — | — | — | 114 | — | 1 |
| 1940 | 138 | — | — | — | — | — | — | — | — | 138 | — | 1 |
| 1941 | 178 | — | — | 446 | — | 446 | — | — | — | 178 | 446 | 6 |
| 1942 | 140 | — | — | 353 | 382 | 735 | 16 | — | 16 | 538 | 353 | 8 |
| 1943 | 205 | — | — | 269 | 134 | 403 | 159 | — | 159 | 498 | 269 | 7 |
| 1944 | 116 | — | — | 257 | — | 257 | 291 | — | 291 | 407 | 257 | 6 |
| 1945 | 136 | — | — | 276 | 46 | 322 | 50 | — | 50 | 232 | 276 | 5 |
| 1946 | 122 | — | — | 420 | 189 | 609 | 62 | — | 62 | 373 | 420 | 7 |
| 1947 | 160 | — | — | 40 | 226 | 266 | 45 | — | 45 | 431 | 40 | 4 |
| 1948 | 70 | — | — | 132 | 193 | 325 | 269 | — | 269 | 532 | 132 | 6 |
| 1949 | 85 | — | — | 119 | — | 119 | 150 | — | 150 | 235 | 119 | 3 |
| 1950 | 50 | — | — | 40 | 40 | 80 | 213 | — | 213 | 303 | 40 | 3 |
| 1951 | 370 | — | — | 60 | 248 | 308 | 449 | — | 449 | 1,067 | 60 | 1,1 |
| 1952 | 240 | — | — | 85 | 109 | 194 | 586 | 25 | 611 | 935 | 110 | 1,0 |
| 1953 | 200 | — | — | 90 | 82 | 172 | 218 | 16 | 234 | 500 | 106 | 6 |
| 1954 | 126 | — | — | 73 | 63 | 136 | 1,122 | — | 1,122 | 1,311 | 73 | 1,3 |
| 1955 | 125 | — | — | 60 | 13 | 73 | 647 | 11 | 658 | 785 | 71 | 8 |
| 1956 | — | — | — | 195 | 63 | 258 | 1,404 | 40 | 1,444 | 1,467 | 235 | 1,7 |
| 1957 | 114 | — | — | 215 | 73 | 288 | 742 | — | 742 | 929 | 215 | 1,1 |
| 1958 | 86 | — | — | 120 | 30 | 150 | 37 | — | 37 | 153 | 120 | 2 |
| 1959 | 96 | — | — | 136 | 56 | 192 | 133 | — | 133 | 285 | 136 | 4 |
| 1960 | 173 | — | — | 90 | 17 | 107 | 382 | — | 382 | 572 | 90 | 6 |
| 1961 | 307 | — | — | 151 | — | 151 | 587 | 41 | 628 | 894 | 192 | 1,0 |
| 1962 | 299 | — | — | 272 | — | 571 | 485 | 120 | 605 | 784 | 392 | 1,1 |
| 1963 | 333 | — | — | 70 | — | 403 | 1,197 | — | 1,197 | 1,530 | 70 | 1,6 |
| 1964 | 323 | — | — | 45 | — | 368 | 676 | 114 | 790 | 999 | 159 | 1,1 |
| Total | 4,796 | 729 | 32 | 4,014 | 1,964 | 7,694 | 9,920 | 397 | 10,317 | 16,320 | 5,172 | 21,4 |

[a]Clay with bentonitic properties.

# BENTONITE AND FULLER'S EARTH

## BENTONITE—IMPORTS—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1942 | 550 | 9,240 | 1954 | 4,761 | 62,791 |
| 1943 | 134 | 2,500 | | | |
| 1944 | 490 | 8,232 | 1955 | 5,274 | 64,996 |
| | | | 1956 | 4,800 | 64,784 |
| 1945 | 871 | 14,632 | 1957 | 5,051 | 74,240 |
| 1946 | 520 | 4,626 | 1958 | 4,952 | 69,438 |
| 1947 | 1,109 | 9.084 | 1959 | 6,330 | 93,113 |
| 1948 | 1,359 | 12,333 | | | |
| 1949 | 1,821 | 18,844 | 1960 | 7,270 | 127,506 |
| | | | 1961 | 6,895 | 119,619 |
| 1950 | 1,482 | 16,395 | 1962 | 9,205 | 178,661 |
| 1951 | 2,678 | 28,846 | 1963 | 10,765 | 246,195 |
| 1952 | 2,874 | 34,767 | 1964 | 14,060 | 284,628 |
| 1953 | 2,446 | 32,464 | | | |

## FULLER'S EARTH—IMPORTS[a]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1913 | 82 | 214 | 1936–37 | 427 | 2,461 |
| 1913–14 | n.a. | n.a. | 1937–38 | 334 | 2,321 |
| 1914–15 | 109 | 354 | 1938–39 | 351 | 2,075 |
| | | | 1939–40 | 878 | 4,428 |
| 1915–16 | 142 | 464 | | | |
| 1916–17 | 59 | 311 | 1940–41 | 495 | 8,043 |
| 1917–18 | 14 | 75 | 1941–42 | 1,518 | 29,995 |
| 1918–19 | 30 | 176 | 1942–43 | 197 | 4,203 |
| 1919–20 | 42 | 314 | 1943–44 | 300 | 8,382 |
| | | | 1944–45 | 530 | 14,473 |
| 1920–21 | 39 | 287 | | | |
| 1921–22 | 52 | 353 | 1945–46 | 529 | 14,061 |
| 1922–23 | 67 | 437 | 1946–47 | 625 | 16,255 |
| 1923–24 | 129 | 815 | 1947–48 | 616 | 15,857 |
| 1924–25 | 142 | 860 | 1949 | 592 | 13,249 |
| 1925–26 | 130 | 702 | 1950 | 598 | 12,832 |
| 1926–27 | 230 | 1,188 | 1951 | 458 | 4,853 |
| 1927–28 | 175 | 903 | 1952 | 7 | 163 |
| 1928–29 | 120 | 733 | 1953 | 96 | 1,129 |
| 1929–30 | 282 | 1,392 | 1954 | 172 | 1,936 |
| 1930–31 | 193 | 887 | 1955 | 257 | 2,745 |
| 1931–32 | 310 | 1,759 | 1956 | 169 | 1,794 |
| 1932–33 | 177 | 1,110 | 1957 | 196 | 2,255 |
| 1933–34 | 324 | 1,976 | 1958 | 150 | 1,681 |
| 1934–35 | 318 | 1,741 | 1959 | 304 | 4,716 |
| 1935–36 | 272 | 1,604 | 1960–64 | [b] | [b] |

[a] Not recorded as a separate item prior to 1913. [b] Ceased to be a separate item as from 1st July, 1960.

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# BERYL

Beryl Production—Australia .. .. .. .. .. .. .. 58

Beryllium Concentrates—Exports—Australia .. .. .. .. .. 58

Beryl Production—Western Australia .. .. .. .. .. .. 59

# BERYL

## BERYL PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | South Australia | Western Australia | Total |
|---|---|---|---|---|---|
| | Mount Isa | Broken Hill District | Olary District | | |
| | tons | tons | tons | tons | tons |
| 1939 | — | — | — | 7 | 7 |
| 1940 | — | — | — | 2 | 2 |
| 1941 | — | — | 2 | 1 | 3 |
| 1942 | — | — | — | — | — |
| 1943 | 7 | — | 1·35 | [a]516·1 | 524·45 |
| 1944 | 5·85 | 14·20 | 4·15 | [b]390·15 | 414·35 |
| 1945 | — | 8·45 | 3·85 | 33·61 | 45·91 |
| 1946 | — | 5·00 | 2·5 | 15·49 | 22·99 |
| 1947 | — | 8·00 | — | 44·89 | 52·89 |
| 1948 | 12·00 | 7·91 | — | 34·85 | 54·76 |
| 1949 | 9·50 | 4·00 | 1·30 | 20·45 | 35·25 |
| 1950 | 6·00 | — | — | 16·93 | 22·93 |
| 1951 | 10·33 | 11·40 | — | 90·77 | 112·50 |
| 1952 | — | 1·00 | 0·85 | 85·29 | 87·14 |
| 1953 | — | 0·80 | — | 124·62 | 125·42 |
| 1954 | 7·20 | 9·30 | — | 132·15 | 148·65 |
| 1955 | — | 7·20 | — | 198·63 | 205·93 |
| 1956 | — | 7·87 | — | 310·19 | 317·76 |
| 1957 | 0·10 | 28·92 | 14·80 | 350·37 | 304·10 |
| 1958 | 11·90 | 10·27 | 56·20 | 170·03 | 248·40 |
| 1959 | 0·50 | 47·90 | 1·20 | 261·47 | 316·31 |
| 1960 | — | 8·70 | — | 181·17 | 189·87 |
| 1961 | — | 36·30 | 9·00 | 260·85 | 306·15 |
| 1962 | — | 10·00 | 18·00 | 195·00 | 223·00 |
| 1963 | — | 13·00 | 15·00 | 82·00 | 110·00 |
| 1964 | — | 30·00 | — | 80·00 | 110·00 |
| Total | 70·38 | 269·82 | 130·20 | 3,605·01 | 4,075·41 |
| Estimated Content of Units Be o | 773 | 3,324 | 1,573 | 42,159 | 47,829 |

[a] Beryl exported from Western Australia during 1943. [b] Beryl exported from Western Australia during 1944.

## BERYLLIUM CONCENTRATES[a]—EXPORTS—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1954 | 163 | 27,667 | 1960 | 148 | 24,213 |
| 1955 | 210 | 34,533 | 1961 | 167 | 25,014 |
| 1956 | 309 | 47,627 | 1962 | 218 | 35,137 |
| 1957 | 397 | 69,408 | 1963 | 129 | 15,915 |
| 1958 | 146 | 26,369 | 1964 | 93 | 10,990 |
| 1959 | — | — | | | |

[a] Not recorded separately before 1st July, 1953.

# BERYL

BERYL PRODUCTION—WESTERN AUSTRALIA

| Year | Pilbara Goldfield | Gascoyne Goldfield | Coolgardie Goldfield | Yalgoo Goldfield | Murchison Goldfield | Balingup | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1939 | — | — | — | — | — | 7·00 | — | 7·00 |
| 1940 | — | — | — | — | — | 2·00 | — | 2·00 |
| 1941 | — | — | — | — | — | 1·00 | — | 1·00 |
| 1942 | — | — | — | — | — | — | — | — |
| 1943 | 477·00 | 39·00 | — | — | — | — | 0·10 | 516·10 |
| 1944 | 302·11 | 37·70 | 28·71 | — | 21·53 | 0·10 | — | 390·15 |
| 1945 | 11·13 | — | 19·23 | — | 3·00 | 0·25 | — | 33·61 |
| 1946 | 15·49 | — | — | — | — | — | — | 15·49 |
| 1947 | 16·04 | — | 28·85 | — | — | — | — | 44·89 |
| 1948 | 30·17 | — | 4·68 | — | — | — | — | 34·85 |
| 1949 | — | 16·95 | — | — | — | — | 3·50 | 20·45 |
| 1950 | 4·74 | 12·19 | — | — | — | — | — | 16·93 |
| 1951 | 65·18 | 9·45 | 16·14 | — | — | — | — | 90·77 |
| 1952 | 69·69 | 1·57 | 14·03 | — | — | — | — | 85·29 |
| 1953 | 104·49 | 2·07 | 10·06 | 8·00 | — | — | — | 124·62 |
| 1954 | 105·60 | 11·78 | 11·15 | 3·48 | — | — | 0·14 | 132·15 |
| 1955 | 173·14 | 11·08 | 11·47 | 2·33 | 0·61 | — | — | 198·63 |
| 1956 | 239·27 | 50·11 | 20·81 | — | — | — | — | 310·19 |
| 1957 | 284·05 | 22·73 | 42·40 | 0·58 | — | 0·61 | — | 350·37 |
| 1958 | 131·40 | 18·34 | 19·23 | 1·06 | — | — | — | 170·03 |
| 1959 | 199·09 | 45·51 | 14·04 | 2·60 | — | 0·23 | — | 261·47 |
| 1960 | 73·75 | 95·41 | 0·75 | 1·25 | 0·44 | — | 9·57 | 181·17 |
| 1961 | 78·68 | 80·75 | 0·54 | 14·99 | 0·44 | — | 85·45 | 260·85 |
| 1962 | 69·23 | 21·94 | 2·12 | 84·52 | 10·97 | — | 6·68 | 195·46 |
| 1963 | 12·45 | 11·07 | — | 54·37 | 1·23 | — | 2·91 | 82·03 |
| 1964 | 13·65 | 1·62 | 25·32 | 39·25 | — | — | — | 79·84 |
| Total | 2,476·35 | 489·27 | 269·53 | 212·43 | 38·22 | 11·19 | 108·35 | 3,605·34 |

Page 60 is blank.

# BISMUTH

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## BISMUTH PRODUCTION—AUSTRALIA
(Estimated, so far as possible, as metallic bismuth)

| Year | Queensland | New South Wales | Tasmania | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| Prior to–1881 | — | 9·00 | — | * | — | — | 9·00† |
| 1881 | — | 9·00 | — | — | — | — | 9·00 |
| 1882 | — | 0·50 | — | — | — | — | 0·50 |
| 1883 | — | 2·00 | — | — | — | — | 2·00 |
| 1884 | — | 8·00 | — | — | — | — | 8·00 |
| 1885 | — | 11·00 | — | — | — | — | 11·00 |
| 1886 | — | 12·00 | — | — | — | — | 12·00 |
| 1887 | — | 20·00 | — | — | — | — | 20·00 |
| 1888 | — | 12·00 | — | — | — | — | 12·00 |
| 1889 | 23·00 | 34·00 | — | — | — | — | 57·00 |
| 1890 | 5·00 | 1·00 | — | — | — | — | 6·00 |
| 1891 | 27·20 | 1·50 | — | — | — | — | 28·70 |
| 1892 | 45·00 | 3·30 | — | — | — | — | 48·30 |
| 1893 | 28·00 | — | — | — | — | — | 28·00 |
| 1894 | 19·00 | 1·30 | — | — | — | — | 20·30 |
| 1895 | 9·20 | — | — | — | — | — | 9·20 |
| 1896 | — | 1·50 | — | — | — | — | 1·50 |
| 1897 | 0·40 | 1·60 | — | — | — | — | 2·00 |
| 1898 | 1·50 | 8·20 | — | — | — | — | 9·70 |
| 1899 | 1·00 | 6·00 | — | — | — | — | 7·00 |
| 1900 | 3·50 | 10·00 | — | — | — | — | 13·50 |
| 1901 | 8·00 | 12·00 | — | — | — | — | 20·00 |
| 1902 | 0·50 | 5·50 | — | — | — | — | 6·00 |
| 1903 | 6·00 | 17·00 | — | — | — | — | 23·00 |
| 1904 | 8·68 | 22·00 | 0·04 | — | — | — | 30·72 |
| 1905 | 10·50 | 37·00 | 3·00 | — | — | — | 50·50 |
| 1906 | 3·75 | 10·00 | 0·06 | — | — | — | 13·81 |
| 1907 | 3·35 | 9·40 | 0·08 | — | — | — | 12·83 |
| 1908 | 17·00 | 3·60 | 1·50 | — | — | 1·20 | 23·30 |
| 1909 | 8·75 | 3·00 | 2·00 | — | — | — | 13·75 |
| 1910 | 17·23 | 3·60 | 10·00 | — | — | — | 30·83 |
| 1911 | 7·30 | 3·20 | 12·03 | — | — | 0·05 | 22·58 |
| 1912 | 4·00 | 2·00 | 6·10 | — | — | — | 12·10 |
| 1913 | 1·30 | 2·10 | 4·03 | — | — | — | 7·43 |
| 1914 | 0·50 | 5·10 | 4·00 | — | 2·00 | — | 11·60 |
| 1915 | 1·24 | 9·00 | 3·07 | — | 0·05 | — | 13·36 |
| 1916 | 1·79 | 9·80 | 2·13 | — | 0·10 | — | 13·82 |
| 1917 | 1·96 | 10·00 | 1·43 | — | 0·02 | 0·05 | 13·46 |
| 1918 | 0·48 | 16·80 | 1·25 | — | — | — | 18·53 |
| 1919 | 0·70 | 19·50 | 0·60 | — | 0·01 | — | 20·81 |
| 1920 | 0·47 | 43·00 | 0·01 | — | — | — | 43·48 |
| 1921 | 0·01 | 2·50 | 0·03 | — | — | — | 2·54 |
| 1922 | 0·90 | 1·50 | — | — | — | — | 2·40 |
| 1923 | 0·13 | 1·50 | — | — | — | — | 1·63 |
| 1924 | 0·10 | 4·50 | — | — | — | — | 4·60 |
| 1925 | 0·10 | 4·50 | — | — | — | — | 4·60 |
| 1926 | — | 1·50 | — | — | — | — | 1·50 |
| 1927 | — | 0·35 | — | — | — | — | 0·35 |
| 1928 | 0·20 | 0·65 | — | — | — | — | 0·85 |
| 1929 | 0·05 | 3·00 | — | — | — | — | 3·05 |

BISMUTH PRODUCTION—AUSTRALIA—*continued*
(Estimated, so far as possible, as metallic bismuth)

| Year | Queensland | New South Wales | Tasmania | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1930 | 0·06 | 0·60 | 0·97 | — | — | — | 1·63 |
| 1931 | 0·10 | 10·85 | 1·75 | 0·21 | — | — | 12·91 |
| 1932 | ‡ | 4·30 | 1·02 | 0·21 | — | — | 5·53 |
| 1933 | — | 0·25 | 1·32 | 0·33 | — | — | 1·90 |
| 1934 | 11·83 | 0·80 | — | 0·25 | — | — | 12·88 |
| 1935 | 18·15 | 0·40 | 0·33 | — | — | — | 18·88 |
| 1936 | 18·15 | ‡ | — | — | — | — | 18·15 |
| 1937 | 8·00 | ‡ | 0·22 | — | — | — | 8·22 |
| 1938 | 3·50 | ‡ | 0·87 | — | — | — | 4·37 |
| 1939 | 0·30 | 0·02 | 0·62 | — | 0·21 | — | 1·15 |
| 1940 | 0·12 | — | 0·57 | — | 1·30 | — | 1·99 |
| 1941 | 0·40 | 0·26 | 0·03 | — | — | — | 0·69 |
| 1942 | 0·60 | 0·14 | 0·02 | — | — | — | 0·76 |
| 1943 | 0·35 | 1·20 | 0·31 | — | 0·25 | 3·56 | 5·67 |
| 1944 | 0·50 | 2·19 | 0·15 | — | 0·47 | 0·20 | 3·51 |
| 1945 | 0·30 | 2·21 | 0·53 | — | 0·16 | — | 3·20 |
| 1946 | 0·12 | 0·50 | 0·39 | — | — | 0·08 | 1·09 |
| 1947 | 0·40 | 3·50 | 0·40 | — | — | — | 4·30 |
| 1948 | 0·88 | 3·00 | 0·08 | — | — | — | 3·96 |
| 1949 | 0·34 | 0·36 | — | — | — | — | 0·70 |
| 1950 | 0·05 | 1·27 | — | — | — | — | 1·32 |
| 1951 | — | 1·11 | — | — | 0·06 | — | 1·17 |
| 1952 | 0·01 | 1·40 | — | — | — | — | 1·41 |
| 1953 | 0·25 | 0·15 | — | — | — | — | 0·40 |
| 1954 | — | — | — | — | — | 0·62 | 0·62 |
| 1955 | — | — | — | — | — | 1·25 | 1·25 |
| 1956 | 0·28 | — | — | — | — | 2·00 | 2·28 |
| 1957 | — | — | — | — | — | 0·60 | 0·60 |
| 1958 | — | — | — | — | 1·04 | — | 1·04 |
| 1959 | — | — | — | — | — | 0·41 | 0·41 |
| 1960 | — | — | — | — | — | 0·12 | 0·12 |
| 1961 | — | — | — | — | 0·27 | 0·13 | 0·40 |
| 1962 | — | — | — | — | 0·04 | — | 0·04 |
| 1963–64 | — | — | — | — | — | — | — |
| Total | 332·48 | 450·00 | 60·94 | 1·00 | 5·98 | 10·27 | 860·67 |

BISMUTH METAL AND BISMUTH CARBONATE—IMPORTS—AUSTRALIA

| Year | Bismuth Metal and Salts | | Year | Bismuth Metal | | Bismuth Carbonate | |
|---|---|---|---|---|---|---|---|
| | lb. | £, f.o.b. | | lb. | £, f.o.b. | lb. | £, f.o.b. |
| 1937–38 | 48,654 | 19,198 | 1946 | [i]911 | [i]415 | [i]13,419 | [i]8,159 |
| 1938–39 | 15,120 | 6,199 | 1947 | 35,138 | 25,434 | 201 | 157 |
| 1939–40 | 43,250 | 19,175 | 1948 | 51,868 | 34,323 | 5,976 | 5,609 |
| | | | 1949 | 29,428 | 19,444 | 4,981 | 4,573 |
| 1940–41 | 52,862 | 24,830 | | | | | |
| 1941–42 | 31,874 | 16,617 | 1950 | 14,018 | 11,758 | 2,679 | 3,165 |
| 1942–43 | 78,532 | 37,203 | 1951 | 21,052 | 28,235 | 4,034 | 6,584 |
| 1943–44 | 80,246 | 35,245 | 1952 | 33,052 | 45,130 | 4,961 | 10,490 |
| 1944–45 | 42,394 | 22,003 | 1953 | 36,509 | 38,801 | 5,712 | 8,500 |
| | | | 1954 | 44,449 | 44,707 | 13,902 | 19,472 |
| | | | 1955 | 35,975 | 36,236 | 13,827 | 19,001 |
| | | | 1956 | 35,992 | 35,301 | 10,176 | 14,412 |
| | | | 1957 | 42,589 | 42,905 | 12,167 | 16,632 |
| | | | 1958 | 37,530 | 38,059 | 19,632 | 24,879 |
| | | | 1959 | 36,445 | 37,158 | 17,220 | 21,431 |
| | | | 1960 | 34,378 | 34,481 | 29,541 | 36,518 |
| | | | 1961 | 36,660 | 37,905 | 18,475 | 22,216 |
| | | | 1962 | 24,461 | 25,502 | 13,603 | 16,900 |
| | | | 1963 | 37,509 | 37,469 | 14,881 | 19,296 |
| | | | 1964 | 42,919 | 44,609 | 23,816 | 31,582 |

## BISMUTH PRODUCTION—QUEENSLAND[a]

| Year | Maryborough District | Chillagoe–Herberton District | Bowen District | Townsville District | Etheridge District | Miscellaneous | Total[b] |
|---|---|---|---|---|---|---|---|
| | Biggenden Mine | Wolfram Camp, Bamford, etc. | Ukalunda | Ollera Creek | Percy River | | |
| | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content |
| | tons | tons | tons | tons | tons | tons | tons |
| 1889 | 17·00 | — | 6·00 | — | — | — | 23·00 |
| 1890 | 3·00 | — | 2·00 | — | — | — | 5·00 |
| 1891 | 20·00 | — | 7·00 | — | — | 0·20 | 27·20 |
| 1892 | 30·00 | — | 15·00 | — | — | — | 45·00 |
| 1893 | 22·00 | — | 6·00 | — | — | — | 28·00 |
| 1894 | 14·00 | — | 5·00 | — | — | — | 19·00 |
| 1895 | 7·00 | 0·20 | 2·00 | — | — | — | 9·20 |
| 1896 | — | — | — | — | — | — | — |
| 1897 | — | 0·40 | — | — | — | — | 0·40 |
| 1898 | — | 0·50 | 1·00 | — | — | — | 1·50 |
| 1899 | — | 1·00 | — | — | — | — | 1·00 |
| 1900 | — | 2·50 | — | — | — | 1·00 | 3·50 |
| 1901 | 5·00 | 3·00 | — | — | — | — | 8·00 |
| 1902 | — | 0·50 | — | — | — | — | 0·50 |
| 1903 | 4·00 | 2·00 | — | — | — | — | 6·00 |
| 1904 | 6·00 | 1·55 | 1·00 | 0·13 | — | — | 8·68 |
| 1905 | 3·00 | 5·95 | — | 1·00 | 0·50 | 0·05 | 10·50 |
| 1906 | — | 3·75 | — | — | — | — | 3·75 |
| 1907 | — | 3·10 | — | 0·10 | 0·15 | — | 3·35 |
| 1908 | 11·50 | 5·50 | — | — | — | — | 17·00 |
| 1909 | 6·75 | 2·00 | — | — | — | — | 8·75 |
| 1910 | 12·20 | 5·00 | — | 0·03 | — | — | 17·23 |
| 1911 | 5·30 | 2·00 | — | — | — | — | 7·30 |
| 1912 | 1·60 | 2·00 | — | 0·20 | 0·20 | — | 4·00 |
| 1913 | 0·10 | 1·20 | — | — | — | — | 1·30 |
| 1914 | — | 0·40 | — | — | 0·10 | — | 0·50 |
| 1915 | — | 1·10 | 0·01 | 0·03 | — | 0·10 | 1·24 |
| 1916 | 0·10 | 1·35 | — | 0·13 | 0·01 | 0·20 | 1·79 |
| 1917 | — | 1·80 | — | 0·10 | — | 0·06 | 1·96 |
| 1918 | — | 0·45 | — | — | 0·03 | [c] | 0·48 |
| 1919 | — | 0·30 | 0·20 | 0·15 | 0·05 | — | 0·70 |
| 1920 | — | 0·31 | — | 0·06 | — | 0·10 | 0·47 |
| 1921 | — | 0·01 | — | — | — | — | 0·01 |
| 1922 | — | 0·80 | — | — | 0·10 | — | 0·90 |
| 1923 | — | 0·13 | — | — | — | — | 0·13 |
| 1924 | — | 0·10 | — | — | — | — | 0·10 |
| 1925 | — | 0·10 | — | — | — | — | 0·10 |
| 1926 | — | — | — | — | — | — | — |

[a] All quantities shown under "Estimated Bismuth Content" have been estimated on the bismuth assay, wherever that has been published in the Warden's report. Otherwise an estimate has been made taking into consideration the value of bismuth metal for each year and the assumption that bismuth concentrates from North Queensland generally contain about 50 per cent. bismuth. [b] In addition, 1,800 tons of wolfram-bismuth concentrates, estimated to contain 108 tons of bismuth have been produced. [c] Small quantity.

BISMUTH PRODUCTION—QUEENSLAND[a]—*continued*

| Year | Maryborough District | Chillagoe–Herberton District | Bowen District | Townsville District | Etheridge District | Miscellaneous | Total[b] |
|---|---|---|---|---|---|---|---|
| | Biggenden Mine | Wolfram Camp, Bamford, etc. | Ukalunda | Ollera Creek | Percy River | | |
| | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content |
| | tons | tons | tons | tons | tons | tons | tons |
| 1927 | — | — | — | — | — | — | — |
| 1928 | — | 0·20 | — | — | — | — | 0·20 |
| 1929 | — | 0·01 | — | — | 0·04 | — | 0·05 |
| 1930 | — | 0·06 | — | — | — | — | 0·06 |
| 1931 | — | *c* | — | — | — | 0·10 | 0·10 |
| 1932 | — | *c* | — | — | — | — | *c* |
| 1933 | — | — | — | — | — | — | — |
| 1934 | 11·75 | — | — | — | — | 0·08 | 11·83 |
| 1935 | 18·00 | 0·10 | — | — | — | 0·05 | 18·15 |
| 1936 | 17·90 | 0·10 | — | — | — | 0·15 | 18·15 |
| 1937 | 7·30 | 0·70 | — | — | — | — | 8·00 |
| 1938 | 3·30 | 0·10 | — | — | — | 0·10 | 3·50 |
| 1939 | — | 0·30 | — | — | — | — | 0·30 |
| 1940 | — | 0·12 | — | — | — | — | 0·12 |
| 1941 | — | 0·40 | — | — | — | — | 0·40 |
| 1942 | — | 0·60 | — | — | — | — | 0·60 |
| 1943 | — | 0·35 | — | — | — | — | 0·35 |
| 1944 | — | 0·50 | — | — | — | — | 0·50 |
| 1945 | — | 0·30 | — | — | — | *c* | 0·30 |
| 1946 | — | 0·12 | — | — | — | — | 0·12 |
| 1947 | — | 0·39 | — | — | — | 0·01 | 0·40 |
| 1948 | — | 0·82 | — | — | — | 0·06 | 0·88 |
| 1949 | — | 0·34 | — | — | — | — | 0·34 |
| 1950 | — | 0·05 | — | — | — | — | 0·05 |
| 1951 | — | — | — | — | — | — | — |
| 1952 | — | — | — | — | 0·01 | — | 0·01 |
| 1953 | — | 0·25 | — | — | — | — | 0·25 |
| 1954–55 | — | — | — | — | — | — | — |
| 1956 | — | 0·28 | — | — | — | — | 0·28 |
| 1957–64 | — | — | — | — | — | — | — |
| Total | 226·80 | 55·09 | 45·21 | 1·93 | 1·19 | 2·26 | 332·48 |

[a] All quantities shown under "Estimated Bismuth Content" have been estimated on the bismuth assay, wherever that has been published in the Warden's report. Otherwise an estimate has been made taking into consideration the value of bismuth metal for each year and the assumption that bismuth concentrates from North Queensland generally contain about 50 per cent. bismuth. [b] In addition, 1,800 tons of wolfram-bismuth concentrates, estimated to contain 108 tons of bismuth have been produced. [c] Small quantity.

## BISMUTH PRODUCTION—NEW SOUTH WALES

| Year | Pambula District Whipstick and Mount Metallic | Glen Innes District Kingsgate | Torrington District Torrington | Deepwater District Deepwater | Oberon District Duckmaloi | Yass District Nanima | Miscellaneous | Total[c] |
|---|---|---|---|---|---|---|---|---|
| | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1880 | — | | — | — | — | — | — | 9·00 |
| 1881 | — | 13·00 | — | — | — | — | — | 9·00 |
| 1882 | — | — | — | — | — | — | — | 0·50 |
| 1883 | — | | — | — | — | — | — | 2·00 |
| 1884 | — | | — | — | — | — | — | 8·00 |
| 1885 | — | 97·00 | — | — | — | — | — | 11·00 |
| 1886 | — | | — | — | — | — | — | 12·00 |
| 1887 | — | | — | — | — | — | — | 20·00 |
| 1888 | — | | — | — | — | — | — | 12·00 |
| 1889 | — | | — | — | — | — | — | 34·00 |
| 1890 | — | — | — | — | — | — | — | 1·00 |
| 1891 | — | — | — | — | — | — | — | 1·50 |
| 1892 | 3·5 | — | — | — | — | — | — | 3·30 |
| 1893 | [a] | — | — | — | — | — | — | — |
| 1894 | [a] | | — | — | — | — | — | 1·30 |
| 1895 | [a] | | — | — | — | — | — | — |
| 1896 | [a] | | — | — | — | — | — | 1·50 |
| 1897 | 10·00 | | — | — | — | — | — | 1·60 |
| 1898 | [e]8·20 | | — | — | — | — | — | 8·20 |
| 1899 | [a] | | — | — | — | [e]0·20 | — | 6·00 |
| 1900 | 10·00 | | — | — | — | 0·35 | — | 10·00 |
| 1901 | [b]12·00 | | — | — | — | — | — | 12·00 |
| 1902 | [b e]5·50 | 31·00 | — | — | — | — | — | 5·50 |
| 1903 | [b e]17·00 | | — | — | — | — | — | 17·00 |
| 1904 | [b e]22·00 | | — | — | — | — | — | 22·00 |
| 1905 | [e]11·00 | | — | — | — | — | — | 37·00 |
| 1906 | [e]7·00 | | — | — | — | [a] | — | 10·00 |
| 1907 | [e]5·00 | | — | [e]8·40 | — | — | — | 9·40 |
| 1908 | 0·10 | | — | — | — | — | — | 3·60 |
| 1909 | — | | — | — | — | [a] | — | 3·00 |
| 1910 | — | | — | — | — | — | — | 3·60 |
| 1911 | [e]1·00 | | — | — | — | — | — | 3·20 |
| 1912 | [e]2·00 | 0·10 | — | — | — | — | — | 2·00 |
| 1913 | [e]2·00 | 0·10 | — | — | — | — | — | 2·10 |
| 1914 | 4·00 | 0·20 | — | — | — | — | — | 5·10 |
| 1915 | [e]1·00 | 9·00 | — | — | — | — | — | 9·00 |
| 1916 | 2·50 | 8·70 | — | 0·40 | — | — | [a] | 9·80 |
| 1917 | [e]5·00 | [e]5·00 | — | — | — | — | — | 10·00 |
| 1918 | [e]4·80 | [a] | — | [e]1·50 | — | — | — | 16·80 |
| 1919 | [e]1·70 | [e]7·00 | [e]11·00 | [a] | [e]0·50 | — | 0·50 | 19·50 |

[a] Not stated. [b] Production of whole State, most of which stated to have come from Whipstick. [c] Based on export figures 1880–1918, and not necessarily total of previous columns; bismuth content estimated in each case. [d] Tenterfield. [f] Mount Charlested. [g] Grenfell. [h] Black Andrew (unpublished report by H. B. Owen, gives following content of concentrates produced from Black Andrew Mine:—1942, 0·22 tons; 1943, 0·66 tons; 1944, 0·10 tons). [j] 0·11 tons from Holbrook, 0·04 tons from Tenterfield. [k] Holbrook.

BISMUTH PRODUCTION—NEW SOUTH WALES—*continued*

| Year | Pambula District Whipstick and Mount Metallic | Glen Innes District Kingsgate | Torrington District Torrington | Deepwater District Deepwater | Oberon District Duckmaloi | Yass District Nanima | Mis-cellaneous | Total[c] |
|---|---|---|---|---|---|---|---|---|
| | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1920 | 0·10 | [e]2·40 | [e]30·00 | [e]0·20 | [e]1·00 | — | [ed]0·30 | 43·00 |
| 1921 | — | [e]2·00 | [e]2·00 | — | 0·50 | — | [c]0·10 | 2·50 |
| 1922 | 2·85 | [e]0·50 | [e]1·00 | — | — | — | — | 1·50 |
| 1923 | — | [a] | [e]1·50 | — | — | — | — | 1·50 |
| 1924 | — | [e]4·20 | [e]0·30 | — | — | — | — | 4·50 |
| 1925 | — | [e]4·20 | — | — | 1·50 | — | — | 4·50 |
| 1926 | — | [e]0·50 | — | — | [a] | — | — | 1·50 |
| 1927 | 0·05 | — | [e]0·25 | — | 0·05 | — | — | 0·35 |
| 1928 | — | — | — | [e]0·65 | — | — | — | 0·65 |
| 1929 | — | — | 2·70 | [e]0·30 | — | — | — | 3·00 |
| 1930 | — | [e]0·40 | 0·15 | [e]0·05 | — | — | — | 0·60 |
| 1931 | — | [e]0·10 | [e]10·30 | [e]0·05 | 0·10 | — | [f]0·30 | 10·85 |
| 1932 | — | 0·10 | 4·00 | — | 0·15 | — | [g]0·05 | 4·30 |
| 1933 | — | — | [a] | [a] | — | — | — | 0·25 |
| 1934 | — | — | [e]0·10 | 0·05 | [e]0·45 | — | [e]0·20 | 0·80 |
| 1935 | — | — | [e]0·03 | — | [e]0·05 | [a] | — | 0·40 |
| 1936 | — | [a] | [a] | [a] | — | — | — | [a] |
| 1937 | — | — | — | — | — | — | [a] | [a] |
| 1938 | — | — | — | — | — | [a] | — | [a] |
| 1939 | — | — | — | 0·02 | — | — | — | 0·02 |
| 1940 | — | — | — | — | — | — | — | — |
| 1941 | — | — | [e]0·07 | [e]0·17 | — | — | 0·02 | 0·26 |
| 1942 | — | — | — | 0·06 | — | — | 0·08 | 0·14 |
| 1943 | — | — | — | 0·53 | — | — | [h]0·66 | 1·20 |
| 1944 | — | 1·44 | 0·50 | 0·25 | — | — | — | 2·19 |
| 1945 | — | [e]2·20 | [e]0·01 | — | — | — | — | 2·21 |
| 1946 | — | † | † | — | — | — | † | 0·50 |
| 1947 | — | — | † | † | — | — | — | 3·50 |
| 1948 | — | — | 3·00 | — | — | — | — | 3·00 |
| 1949 | — | — | 0·36 | — | — | — | — | 0·36 |
| 1950 | — | 1·08 | 0·19 | — | — | — | — | 1·27 |
| 1951 | — | 1·11 | — | — | — | — | — | 1·11 |
| 1952 | — | 1·32 | 0·06 | — | — | — | [j]0·02 | 1·40 |
| 1953 | — | — | 0·06 | — | — | — | [k]0·09 | 0·15 |
| 1954–64 | — | — | — | — | — | — | — | — |
| Total | 138·30 | 192·65 | 67·57 | 12·63 | 4·30 | † | 2·32 | 450·80 |

[a] Not stated. [b] Production of whole State, most of which stated to have come from Whipstick. [c] Based on export figures 1880–1918, and not necessarily total of previous columns; bismuth content estimated in each case. [d] Tenterfield. [f] Mount Charlested. [g] Grenfell. [h] Black Andrew (unpublished report by H. B. Owen, gives following content of concentrates produced from Black Andrew Mine:—1942, 0·22 tons; 1943, 0·66 tons; 1944, 0·10 tons). [j] 0·11 tons from Holbrook, 0·04 tons from Tenterfield. [k] Holbrook.

BISMUTH PRODUCTION—TASMANIA

| Year | Moina District | | | Federation Mine, Heemskirk | Total |
|---|---|---|---|---|---|
| | S. and M. Mine | Stormont Mine | Miscellaneous | | |
| | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content |
| | tons | tons | tons | tons | tons |
| 1904 | 0·04 | — | — | — | 0·04 |
| 1905 | 3·00 | — | — | — | 3·00 |
| 1906 | 0·06 | — | — | — | 0·06 |
| 1907 | 0·08 | — | — | — | 0·08 |
| 1908 | 1·50 | — | — | — | 1·50 |
| 1909 | 2·00 | — | — | — | 2·00 |
| 1910 | 10·00 | — | — | — | 10·00 |
| 1911 | 12·00 | — | 0·03 | — | 12·03 |
| 1912 | 6·00 | — | 0·10 | — | 6·10 |
| 1913 | 4·00 | — | 0·03 | — | 4·03 |
| 1914 | 4·00 | — | [a] | — | 4·00 |
| 1915 | 3·00 | — | 0·07 | — | 3·07 |
| 1916 | 2·00 | — | 0·03 | — | 2·13 |
| 1917 | 1·40 | — | 0·03 | — | 1·43 |
| 1918 | 1·10 | — | 0·15 | — | 1·25 |
| 1919 | 0·50 | — | 0·10 | — | 0·60 |
| 1920 | — | — | 0·01 | — | 0·01 |
| 1921 | 0·03 | — | — | — | 0·03 |
| 1922–29 | — | — | — | — | — |
| 1930 | — | 0·97 | — | — | 0·97 |
| 1931 | — | 1·75 | — | — | 1·75 |
| 1932 | — | 1·02 | — | — | 1·02 |
| 1933 | 0·10 | 1·22 | — | — | 1·32 |
| 1934 | — | — | — | — | — |
| 1935 | 0·33 | — | — | — | 0·33 |
| 1936 | — | — | — | — | — |
| 1937 | 0·22 | — | — | — | 0·22 |
| 1938 | 0·87 | — | — | — | 0·87 |
| 1939 | 0·62 | — | — | — | 0·62 |
| 1940 | 0·55 | — | — | 0·02 | 0·57 |
| 1941 | 0·03 | — | — | — | 0·03 |
| 1942 | 0·02 | — | — | — | 0·02 |
| 1943 | 0·31 | — | — | — | 0·31 |
| 1944 | 0·15 | — | — | — | 0·15 |
| 1945 | 0·52 | — | — | — | 0·53 |
| 1946 | 0·39 | — | — | — | 0·39 |
| 1947 | 0·40 | — | — | — | 0·40 |
| 1948 | 0·08 | — | — | — | 0·08 |
| 1949 | — | — | — | — | — |
| 1950 | [b] | — | — | — | [b] |
| 1951–64 | — | — | — | — | — |
| Total | 55·30 | 4·96 | 0·55 | 0·02 | 60·94 |

[a] Not published. [b] 0·0039 tons.

BISMUTH PRODUCTION—SOUTH AUSTRALIA

| Year | Balhannah Mine | Grundy (Golden Ridge) Mine | Total |
|---|---|---|---|
| | Est. Bismuth Content | Bismuth | Bismuth |
| | tons | tons | tons |
| 1867–76 | [a] | — | — |
| 1931 | — | 0·21 | 0·21 |
| 1932 | — | 0·21 | 0·21 |
| 1933 | — | 0·33 | 0·33 |
| 1934 | — | 0·25 | 0·25 |
| 1935–64 | — | — | — |
| Total | [a] | 1·00 | [i]1·00 |

[a] Not known.

BISMUTH PRODUCTION—WESTERN AUSTRALIA

| Year | Melville (Noongal) | Yinnietharra | Total |
|---|---|---|---|
| | Est. Bismuth Content | Est. Bismuth Content | Est. Bismuth Content |
| | tons | tons | tons |
| 1914 | [a]2·00 | — | 2·00 |
| 1915 | [a]0·05 | — | 0·05 |
| 1916 | [a]0·10 | — | 0·10 |
| 1917 | [a]0·02 | — | 0·02 |
| 1918 | — | — | — |
| 1919 | [a]0·01 | — | 0·01 |
| 1920–38 | — | — | — |
| 1939 | — | 0·21 | 0·21 |
| 1940 | — | 1·30 | 1·30 |
| 1941–42 | — | — | — |
| 1943 | — | 0·25 | 0·25 |
| 1944 | — | 0·47 | 0·47 |
| 1945 | — | 0·16 | 0·16 |
| 1946–50 | — | — | — |
| 1951 | — | 0·06 | 0·06 |
| 1952–7 | — | — | — |
| 1958 | — | 1·04 | 1·04 |
| 1959–60 | — | — | — |
| 1961 | — | 0·27 | 0·27 |
| 1962 | — | 0·04 | 0·04 |
| Total | 2·18 | 3·80 | 5·98 |

[a] Estimated from records of exports; not reported to Mines Department.

BISMUTH PRODUCTION—NORTHERN TERRITORY

(Estimated bismuth content of concentrates)

| Year | Mount Ellison Mine, Brock's Creek | Hatches Creek | Total |
|---|---|---|---|
| | tons | tons | tons |
| 1908 | 1·20 | — | 1·20 |
| 1911 | 0·05 | — | 0·05 |
| 1917–18 | 0·05 | — | 0·05 |
| 1919–41 | — | — | — |
| 1943 | — | 3·56 | 3·56 |
| 1944 | — | 0·20 | 0·20 |
| 1945 | — | — | — |
| 1946 | — | 0·08 | 0·08 |
| 1947–53 | — | — | — |
| 1954 | — | 0·62 | 0·62 |
| 1955 | — | [a]1·25 | 1·25 |
| 1956 | — | [a]2·00 | 2·00 |
| 1957 | — | [a]0·60 | 0·60 |
| 1958 | — | — | — |
| 1959 | — | [a]0·41 | 0·41 |
| 1960 | — | [a]0·12 | 0·12 |
| 1961 | — | [a]0·13 | 0·13 |
| 1962–64 | — | — | — |
| Total | 1·30 | 8·97 | 10·27 |

[a] Estimated bismuth content of wolfram concentrates, not recorded by the Mines Branch of Northern Territory Administration.

Page 72 is blank.

# CADMIUM

Cadmium Production—Australia .. .. .. .. .. .. .. 74

Cadmium Metal Production—Australia .. .. .. .. .. 75

Cadmium (Refined)—Exports—Australia .. .. .. .. .. 76

# CADMIUM

CADMIUM PRODUCTION—AUSTRALIA
(Metal content of mine products)

| Year | Queensland | New South Wales | | Tasmania | Total |
|---|---|---|---|---|---|
| | Mt. Isa | Broken Hill[a] | | Read-Rosebery | |
| | in lead cons | in lead cons | in zinc cons | in zinc cons | |
| | tons | tons | tons | tons | tons |
| 1950 | n.r. | 46 | 507 | 44 | 597 |
| 1951 | 5 | 45 | 517 | 38 | 605 |
| 1952 | 2 | 46 | 544 | 42 | 634 |
| 1953 | 10 | 60 | 664 | 70 | 804 |
| 1954 | 11 | 67 | 759 | 77 | 914 |
| 1955 | n.r. | 69 | 726 | 49 | 844 |
| 1956 | n.r. | 69 | 793 | 60 | 922 |
| 1957 | n.r. | 76 | 848 | 55 | 979 |
| 1958 | n.r. | 74 | 738 | 60 | 872 |
| 1959 | n.r. | 72 | 729 | 59 | 860 |
| 1960 | n.r. | 68 | 825 | 56 | 949 |
| 1961 | n.r. | 55 | 790 | 62 | 907 |
| 1962 | n.r. | 72 | 848 | 72 | 992 |
| 1963 | n.r. | 88 | 947 | 74 | 1,109 |
| 1964 | n.r. | 74 | 889 | 77 | 1,050 |

[a] Includes cadmium contents of lead concentrates and zinc concentrates at Captain's Flat in 1950–1961.

## CADMIUM METAL PRODUCTION—AUSTRALIA

| Year | Risdon | | Port Pirie | Cockle Creek | Total |
|---|---|---|---|---|---|
| | From Read-Rosebery cons. | From Broken Hill cons. | | | |
| | tons | | tons | tons | tons |
| 1922 | — | 36·00 | — | — | 36·00 |
| 1923 | — | 123·00 | — | — | 123·00 |
| 1924 | 9·58 | 149·75 | — | — | 159·33 |
| 1925 | 22·26 | 156·54 | — | — | 178·80 |
| 1926 | 27·41 | 133·18 | — | — | 160·59 |
| 1927 | 20·15 | 134·63 | — | — | 154·78 |
| 1928 | 19·73 | 152·32 | — | — | 172·05 |
| 1929 | 17·50 | 181·57 | — | — | 199·07 |
| 1930 | 3·30 | 224·19 | — | — | 227·49 |
| 1931 | — | 198·73 | — | — | 197·73 |
| 1932 | — | 158·31 | — | — | 158·31 |
| 1933 | — | 159·51 | — | — | 159·51 |
| 1934 | — | 172·58 | — | — | 172·58 |
| 1935 | — | 218·60 | — | — | 218·60 |
| 1936 | 20·20 | 214·21 | — | — | 234·41 |
| 1937 | 40·60 | 162·28 | — | — | 202·88 |
| 1938 | 35·02 | 147·17 | — | — | 182·19 |
| 1939 | 43·34 | 124·38 | 8·00 | — | 175·72 |
| 1940 | 50·00 | 102·45 | 20·00 | — | 172·45 |
| 1941 | 47·05 | 128·85 | 16·00 | — | 191·90 |
| 1942 | 41·40 | 116·80 | 5·00 | — | 163·20 |
| 1943 | 40·35 | 99·20 | 18·00 | — | 157·55 |
| 1944 | 39·70 | 199·30 | 11·00 | — | 250·00 |
| 1945 | 38·20 | 190·87 | 13·00 | — | 242·07 |
| 1946 | 30·40 | 186·85 | 11·00 | — | 228·25 |
| 1947 | 38·30 | 153·82 | 17·00 | — | 209·47 |
| 1948 | 44·00 | 186·22 | 58·50 | — | 288·72 |
| 1949 | 44·00 | 171·35 | 44·25 | — | 259·60 |
| 1950 | 44·00 | 189·40 | 61·00 | — | 294·40 |
| 1951 | 36·00 | 155·00 | 40·00 | — | 231·00 |
| 1952 | 41·00 | 182·00 | 63·40 | — | 286·40 |
| 1953 | 40·00 | 182·00 | 75·25 | — | 297·25 |
| 1954 | 49·00 | 181·00 | 58·00 | — | 288·00 |
| 1955 | 40·00 | 183·00 | 78·00 | — | 301·00 |
| 1956 | 44·00 | 182·00 | 50·00 | — | 276·00 |
| 1957 | 48·00 | 261·00 | 84·00 | — | 393·00 |
| 1958 | 41·00 | 236·00 | 76·00 | — | 353·00 |
| 1959 | 57·00 | 209·00 | 75·00 | — | 341·00 |
| 1960 | 59·00 | 203·00 | 39·00 | — | 301·00 |
| 1961 | 51·00 | 188·00 | 63·00 | 9·00 | 311·00 |
| 1962 | 57·00 | 204·00 | 16·00 | 76·00 | 353·00 |
| 1963 | 80·00 | 232·00 | 49·00 | 125·00 | 486·00 |
| 1964 | 69·00 | 261·00 | 33·00 | 131·00 | 494·00 |
| Total | 1,428·49 | 7,431·06 | 1,082·40 | 341·00 | 10,282·95 |

CADMIUM (REFINED)[a]—EXPORTS—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1922–23 | 62 | 22,822 | 1946 | 133 | 113,480 |
| 1923–24 | 63 | 19,646 | 1947 | 96 | 148,638 |
| 1924–25 | 174 | 41,617 | 1948 | 87 | 133,335 |
| | | | 1949 | 175 | 297,694 |
| 1925–26 | 184 | 38,534 | | | |
| 1926–27 | 143 | 28,164 | 1950 | 171 | 354,047 |
| 1927–28 | 212 | 45,860 | 1951 | 133 | 321,831 |
| 1928–29 | 178 | 41,281 | 1952 | 137 | 306,486 |
| 1929–30 | 172 | 55,075 | 1953 | 283 | 485,695 |
| | | | 1954 | 172 | 275,716 |
| 1930–31 | 122 | 30,262 | | | |
| 1931–32 | 37 | 4,746 | 1955 | 167 | 245,190 |
| 1932–33 | 220 | 37,083 | 1956 | 142 | 230,763 |
| 1933–34 | 302 | 45,592 | 1957 | 201 | 319,940 |
| 1934–35 | 189 | 29,274 | 1958 | 226 | 311,608 |
| | | | 1959 | 143 | 182,629 |
| 1935–36 | 217 | 81,139 | | | |
| 1936–37 | 191 | 70,547 | 1960 | 60 | 94,409 |
| 1937–38 | 170 | 105,573 | 1961 | 156 | 200,928 |
| 1938–39 | 152 | 56,543 | 1962 | 194 | 292,044 |
| 1939–40 | 136 | 79,424 | 1963 | 325 | 707,721 |
| | | | 1964 | 340 | 1,077,871 |
| 1940–41 | 156 | 108,403 | | | |
| 1941–42 | 102 | 70,703 | | | |
| 1942–43 | 84 | 50,658 | | | |
| 1943–44 | 48 | 33,460 | | | |
| 1944–45 | 142 | 90,408 | | | |

[a] Blocks, ingots, bars, rods.

# CHROME ORE

Chrome Ore Production—Australia .. .. .. .. .. .. 78

Chrome Ore—Exports—Australia .. .. .. .. .. .. 79

Chrome Ore—Imports—Australia .. .. .. .. .. .. 79

Chrome Ore Production—Queensland .. .. .. .. .. .. 80

Chrome Ore Production—New South Wales .. .. .. .. .. 81–82

# CHROME ORE

## CHROME ORE PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Western Australia Peak Hill | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1882 | — | 100 | — | 100 |
| 1883–1893 | — | — | — | — |
| 1894 | — | 3,034 | — | 3,034 |
| 1895 | — | 4,299 | — | 4,299 |
| 1896 | — | 3,852 | — | 3,852 |
| 1897 | — | 3,380 | — | 3,380 |
| 1898 | — | 2,111 | — | 2,111 |
| 1899 | — | 5,243 | — | 5,243 |
| 1900 | — | 3,285 | — | 3,285 |
| 1901 | — | 2,483 | — | 2,483 |
| 1902 | — | 500 | — | 500 |
| 1903 | — | 1,951 | — | 1,951 |
| 1904 | — | 397 | — | 397 |
| 1905 | — | 52 | — | 52 |
| 1906 | — | 15 | — | 15 |
| 1907 | 84 | 30 | — | 114 |
| 1908 | 184 | — | — | 184 |
| 1909 | 260 | — | — | 260 |
| 1910 | 873 | — | — | 873 |
| 1911 | 352 | 150 | — | 502 |
| 1912 | 450 | 23 | — | 473 |
| 1913 | 177 | 500 | — | 677 |
| 1914 | — | 649 | — | 649 |
| 1915 | 119 | 638 | — | 757 |
| 1916 | 160 | 450 | — | 610 |
| 1917 | 830 | 587 | — | 1,417 |
| 1918 | 350 | 368 | — | 718 |
| 1919 | 47 | 262 | — | 309 |
| 1920 | 158 | 1,460 | — | 1,618 |
| 1921 | — | 52 | — | 52 |
| 1922 | — | 529 | — | 529 |
| 1923 | — | 1,192 | — | 1,192 |
| 1924 | — | 773 | — | 773 |
| 1925 | — | 963 | — | 963 |
| 1926 | — | 597 | — | 597 |
| 1927 | — | — | — | — |
| 1928 | — | — | — | — |
| 1929 | — | 129 | — | 1 |
| 1930 | — | 153 | — | 1 |
| 1931 | — | 26 | — | |
| 1932 | — | 97 | — | |
| 1933 | — | 891 | — | 8 |
| 1934 | — | 1,716 | — | 1,7 |
| 1935 | — | 581 | — | 5 |
| 1936 | — | 415 | — | 4 |
| 1937 | — | 459 | — | 4 |
| 1938 | — | 937 | — | 9 |
| 1939 | — | 106 | — | 1 |
| 1940 | — | 520 | — | 5 |
| 1941 | — | 350 | — | 3 |
| 1942 | — | 359 | — | 3 |
| 1943 | 581 | 405 | — | 9 |
| 1944 | 526 | 242 | — | 7 |
| 1945 | — | 282 | — | 2 |
| 1946–1947 | — | — | — | |
| 1948 | 555 | — | — | 5 |
| 1949 | 632 | — | — | 6 |
| 1950 | 891 | — | — | 8 |
| 1951 | 1,380 | — | — | 1,3 |
| 1952 | 625 | — | 773 | 1,3 |
| 1953 | 773 | — | 1,968 | 2,7 |
| 1954 | 673 | — | 4,270 | 4,9 |
| 1955 | — | — | — | |
| 1956 | — | — | 6,096 | 6,0 |
| 1957 | 1,737 | — | 1,312 | 3,0 |
| 1958 | 737 | 39 | — | 7 |
| 1959 | 120 | — | — | 1 |
| 1960 | 529 | — | — | 5 |
| 1961 | — | — | — | |
| 1962 | 369 | — | — | 3 |
| 1963 | 160 | — | — | 1 |
| 1964 | 72 | — | — | |
| Total | 14,404 | 47,631 | 14,419 | 76,4 |

CHROME ORE—EXPORTS—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1922–23 | — | — | 1949–50 | 6 | 374 |
| 1923–24 | 1 | 10 | 1950–51 | | |
| | | | 1951–52 | | |
| 1924–25 | 21 | 116 | 1952–53 | | |
| 1925–26 | 14 | 75 | 1953–54 | | |
| 1926–27 | 22 | 123 | | | |
| | | | 1954–55 | | |
| 1927–37 | — | — | 1955–56 | | |
| 1937–38 | † | 2 | 1956–57 | n.r.s. | n.r.s. |
| 1938–39 | — | — | 1957–58 | | |
| | | | 1958–59 | | |
| 1939–40 | — | — | | | |
| 1940–41 | 7 | 49 | 1959–60 | | |
| | | | 1960–61 | | |
| 1941–46 | — | — | 1961–62 | | |
| 1946–47 | 5 | 20 | 1962–63 | | |
| 1947–48 | — | — | 1963–64 | | |
| 1948–49 | 2 | 298 | | | |

CHROME ORE—IMPORTS—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1914–15 | 100 | 292 | 1940–41 | 9,938 | 44,913 |
| | | | 1941–42 | 4,992 | 21,647 |
| 1915–16 | 651 | 1,868 | 1942–43 | 9,722 | 52,313 |
| 1916–17 | † | 1 | 1943–44 | 18,481 | 116,526 |
| 1917–18 | 850 | 2,544 | 1944–45 | 2,391 | 18,076 |
| 1918–19 | 1 | 6 | | | |
| 1919–20 | 41 | 2,915 | 1946 | † | 13 |
| | | | 1947 | 1,360 | 11,716 |
| 1920–21 | † | 3 | 1948 | 2,300 | 20,944 |
| 1921–22 | 41 | 1,041 | 1949 | 6,848 | 40,757 |
| 1922–23 | 25 | 107 | | | |
| 1923–24 | 496 | 2,685 | 1950 | 3,091 | 26,667 |
| 1924–25 | 2,455 | 13,542 | 1951 | 3,654 | 35,963 |
| | | | 1952 | 6,243 | 74,531 |
| 1925–26 | 2,407 | 8,420 | 1953 | 4,080 | 61,379 |
| 1926–27 | 55 | 527 | 1954 | 5,282 | 82,858 |
| 1927–28 | 15 | 444 | | | |
| 1928–29 | 10 | 789 | 1955 | 9,582 | 114,599 |
| 1929–30 | 15 | 247 | 1956 | 3,073 | 32,569 |
| | | | 1957 | 8,653 | 113,174 |
| 1930–31 | 25 | 149 | 1958 | 8,772 | 89,701 |
| 1931–32 | — | — | 1959 | 6,381 | 84,208 |
| 1932–33 | 5 | 17 | | | |
| 1933–34 | — | — | 1960 | 21,259 | 268,773 |
| 1934–35 | — | — | 1961 | 17,049 | 209,332 |
| | | | 1962 | 8,538 | 93,617 |
| 1935–36 | 954 | 3,182 | 1963 | 16,128 | 158,867 |
| 1936–37 | 4,835 | 12,617 | 1964 | 32,212 | 316,181 |
| 1937–38 | 8,516 | 25,254 | | | |
| 1938–39 | 3,200 | 11,187 | | | |
| 1939–40 | 12,205 | 53,806 | | | |

## CHROME ORE PRODUCTION—QUEENSLAND[a]

| Year | Rockhampton District | | | | | | |
|---|---|---|---|---|---|---|---|
| | Tungamull | Rock-hampton | Balna-gowan | Canoona | Glen Geddes | Marl-borough | Total |
| | tons | tons | tons | tons | tons | tons | tons |
| 1907 | 84 | — | — | — | — | — | 84 |
| 1908 | 184 | — | — | — | — | — | 184 |
| 1909 | 260 | — | — | — | — | — | 260 |
| 1910 | 773 | — | 100 | — | — | — | 873 |
| 1911 | 150 | — | 137 | — | — | — | [b]352 |
| 1912 | 450 | — | — | — | — | — | 450 |
| 1913 | 177 | — | — | — | — | — | 177 |
| 1914 | — | — | — | — | — | — | — |
| 1915 | — | 119 | — | — | — | — | 119 |
| 1916 | — | — | — | 160 | — | — | 160 |
| 1917 | 80 | — | — | 750 | — | — | 830 |
| 1918 | — | — | — | 350 | — | — | 350 |
| 1919 | — | — | — | — | 47 | — | 47 |
| 1920 | — | — | — | — | 158 | — | 158 |
| 1921–42 | — | — | — | — | — | — | — |
| 1943 | 341 | — | — | — | 158 | 82 | 581 |
| 1944 | 526 | — | — | — | — | — | 526 |
| 1945–47 | — | — | — | — | — | — | — |
| 1948 | 555 | — | — | — | — | — | 555 |
| 1949 | 632 | — | — | — | — | — | 632 |
| 1950 | — | — | — | — | — | 891 | 891 |
| 1951 | — | — | — | — | — | 1,380 | 1,380 |
| 1952 | — | — | — | — | — | 625 | 625 |
| 1953 | — | — | — | — | 315 | 458 | 773 |
| 1954 | — | — | — | — | 665 | 8 | 673 |
| 1955–56 | — | — | — | — | — | — | — |
| 1957 | 22 | — | — | — | 37 | 1,678 | 1,737 |
| 1958 | 131 | — | — | — | 18 | 588 | 737 |
| 1959 | — | — | — | — | — | 120 | 120 |
| 1960 | 529 | — | — | — | — | — | 529 |
| 1961 | — | — | — | — | — | — | — |
| 1962 | 369 | — | — | — | — | — | 369 |
| 1963 | 160 | — | — | — | — | — | 160 |
| 1964 | 72 | — | — | — | — | — | 72 |
| Total | 5,495 | 119 | 237 | 1,260 | 1,398 | 5,830 | 14,404 |

[a] Based largely on Ridgway, J. E., 1943, Chromite Deposits, Central District, *Qld. Govt. Min. Journ.* 44, (503), p. 39. [b] Not all accounted for in previous columns.

## CHROME ORE PRODUCTION—NEW SOUTH WALES

| Year | Gundagai District | Coota-mundra District | Barraba District | Bingara District | Tamworth District | Copman-hurst District | Mis-cellaneous | Total |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1882 | — | — | — | — | — | — | 100 | 100 |
| 1883–93 | — | — | — | — | — | — | — | — |
| 1894 | [e]3,000 | — | — | — | — | — | 30 | [b]3,034 |
| 1895 | 5,500 | — | — | — | — | — | — | [b]4,299 |
| 1896 | 1,000 | — | — | — | — | — | — | [b]3,852 |
| 1897 | [a]3,380 | — | — | — | — | — | — | [b]3,380 |
| 1898 | [a]2,111 | — | — | — | — | — | — | [b]2,111 |
| 1899 | [a]5,243 | — | — | — | — | — | — | [b]5,243 |
| 1900 | 3,285 | — | — | — | — | — | — | 3,285 |
| 1901 | 2,483 | — | — | — | — | — | — | 2,483 |
| 1902 | 500 | — | — | — | — | — | — | 500 |
| 1903 | 1,951 | — | — | — | — | — | — | 1,951 |
| 1904 | [e]377 | — | — | 20 | — | — | — | 397 |
| 1905 | [c] | — | — | [c] | — | — | — | 52 |
| 1906 | — | — | — | 15 | — | — | — | 15 |
| 1907 | — | — | — | — | — | — | — | 30 |
| 1908–10 | — | — | — | — | — | — | — | — |
| 1911 | — | — | 150 | — | — | — | — | 150 |
| 1912 | — | — | — | — | — | — | — | [d]23 |
| 1913 | — | — | 500 | — | — | — | — | 500 |
| 1914 | — | — | 649 | — | — | — | — | 649 |
| 1915 | — | — | 638 | — | — | — | — | 638 |
| 1916 | — | — | — | 450 | — | — | — | 450 |
| 1917 | — | 224 | 25 | — | 148 | — | 190 | 587 |
| 1918 | — | 256 | — | 112 | — | — | — | 368 |
| 1919 | — | [e]112 | — | 150 | — | — | — | [e]262 |
| 1920 | 1,420 | — | — | 40 | — | — | — | 1,460 |
| 1921 | — | — | — | 52 | — | — | — | [f]52 |
| 1922 | — | 20 | 509 | — | — | — | — | 529 |
| 1923 | — | — | 1,192 | — | — | — | — | 1,192 |
| 1924 | — | — | 773 | — | — | — | — | 773 |
| 1925 | — | — | 933 | — | 30 | — | — | 963 |
| 1926 | — | — | 510 | — | — | 87 | — | 597 |
| 1927–28 | — | — | — | — | — | — | — | — |
| 1929 | — | — | 113 | — | — | — | 16 | 129 |
| 1930 | — | — | 153 | — | — | — | — | [f]153 |
| 1931 | — | — | 26 | — | — | — | — | 26 |
| 1932 | 29 | — | 46 | — | — | — | 22 | 97 |
| 1933 | 108 | — | — | 220 | — | 500 | — | [d]891 |
| 1934 | 95 | — | 39 | 79 | — | 1,477 | — | 1,716 |
| 1935 | 49 | — | — | 90 | — | 413 | 23 | [f]581 |
| 1936 | 33 | — | 140 | — | — | 242 | — | 415 |
| 1937 | 70 | — | 24 | 95 | 270 | — | 12 | 459 |
| 1938 | 392 | 60 | — | 117 | 368 | — | — | [f]937 |
| 1939 | 90 | — | — | 16 | — | — | — | [f]106 |
| 1940 | — | 20 | — | — | — | 500 | — | [f]520 |
| 1941 | — | — | — | — | — | 350 | — | 350 |

[a] Production not recorded; figure based on exports. [b] Exports. [c] Not recorded. [d] Not in agreement with previous columns. [f] Not including production from Home Rule (Gulgong), which has been shown as chrome ochre in Summary Report No. 24 (Pigment Minerals).

CHROME ORE PRODUCTION—NEW SOUTH WALES—*continued*

| Year | Gundagai District | Coota-mundra District | Barraba District | Bingara District | Tamworth District | Copman-hurst District | Mis-cellaneous | Total |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1942 | — | 4 | — | — | — | 355 | — | 359 |
| 1943 | — | — | 3 | — | — | 402 | — | 405 |
| 1944 | — | — | — | — | 50 | 191 | — | 242 |
| 1945 | — | — | — | — | — | 282 | — | 282 |
| 1946–57 | — | — | — | — | — | — | — | — |
| 1958 | 39 | — | — | — | — | — | — | 39 |
| 1959–64 | — | — | — | — | — | — | — | — |
| Total | 31,155 | 696 | 6,423 | 1,457 | 866 | 4,799 | 393 | 47,631 |

[a] Production not recorded; figure based on exports. [b] Exports. [c] Not recorded. [d] Not in agreement with previous columns. [f] Not including production from Home Rule (Gulgong), which has been shown as chrome ochre in Summary Report No. 24 (Pigment Minerals).

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## KAOLIN (INCLUDING BALL CLAY) PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1950 | 170 | 23,516 | 9,558 | 10,199 | 3,916 | — | 47,359 |
| 1951 | 408 | 27,811 | 3,927 | 8,075 | 3,855 | 12 | 44,088 |
| 1952 | 236 | 21,543 | 1,593 | 8,366 | 3,271 | 268 | 35,277 |
| 1953 | 266 | 22,518 | 2,704 | 9,061 | 4,695 | 478 | 39,722 |
| 1954 | 226 | 23,159 | 2,575 | 7,948 | 3,325 | 4,020 | 41,253 |
| 1955 | 220 | 27,352 | 2,945 | 9,740 | 4,721 | 76 | 45,054 |
| 1956 | 341 | 23,007 | 5,867 | 6,267 | 3,517 | 2,090 | 41,089 |
| 1957 | 43 | 22,618 | 3,661 | 6,038 | 10,923 | 203 | 43,486 |
| 1958 | 68 | 23,216 | 5,631 | 3,302 | 4,803 | 79 | 37,099 |
| 1959 | 20 | 23,888 | 6,088 | 1,195 | 4,593 | 1,190 | 36,974 |
| 1960 | 37 | 37,973 | 5,938 | 964 | 3,283 | — | 48,195 |
| 1961 | 60 | 37,866 | 9,016 | 1,232 | 2,142 | 772 | 51,088 |
| 1962 | 116 | 21,072 | 11,404 | 606 | 2,190 | 682 | 36,070 |
| 1963 | 168 | 27,161 | 18,623 | — | 3,833 | 920 | 50,705 |
| 1964 | 401 | 22,089 | 13,754 | — | 4,542 | 22 | 40,808 |

## BRICK CLAY AND SHALE PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1950 | e160,000 | 1,442,474 | e700,000 | e64,000 | 227,711 | e270,000 | e2,864,185 |
| 1951 | 213,767 | 1,496,038 | e645,000 | e60,000 | 212,243 | e310,000 | e3,137,048 |
| 1952 | 194,716 | 1,286,407 | e670,000 | e42,000 | 218,297 | e260,000 | e2,671,420 |
| 1953 | 251,771 | 1,382,989 | e750,000 | e61,000 | 258,250 | e350,000 | e3,054,010 |
| 1954 | 277,468 | 1,604,409 | e845,000 | e69,000 | 302,942 | e420,000 | e3,518,819 |
| 1955 | 264,711 | 1,589,262 | e889,000 | e73,000 | 306,215 | e434,000 | e3,556,188 |
| 1956 | 264,260 | 1,521,267 | 878,799 | 74,292 | 325,788 | 361,923 | 3,426,329 |
| 1957 | 204,841 | 1,531,572 | 925,968 | 83,707 | 368,154 | 417,098 | 3,531,140 |
| 1958 | 223,738 | 1,662,832 | 1,030,771 | 144,818 | 373,094 | 394,010 | 2,829,263 |
| 1959 | 289,931 | 1,893,440 | e1,122,000 | 153,880 | 441,354 | e398,000 | e4,298,605 |
| 1960 | 334,584 | 2,077,518 | 1,258,275 | 157,245 | 407,840 | 310,342 | 4,636,328 |
| 1961 | 299,594 | 2,005,679 | e1,089,000 | 153,156 | 311,257 | 484,996 | 4,343,682 |
| 1962 | 315,862 | 1,966,322 | 1,181,058 | 140,536 | 338,180 | 441,156 | 4,383,114 |
| 1963 | 222,651 | 1,987,381 | 1,345,427 | 146,885 | 407,247 | 439,419 | 4,549,010 |
| 1964 | 367,583 | 2,059,007 | 1,549,142 | 173,616 | 517,087 | 496,333 | 5,164,768 |

## CLAYS—EXPORTS—AUSTRALIA

| Year | White Clays[a] | | Fireclay[b] | | Other Clays n.e.i. | | Total | |
|---|---|---|---|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1950 | | | | | | | 1,036 | 12,108 |
| 1951 | | | | | | | 770 | 12,446 |
| 1952 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 494 | 16,138 |
| 1953 | | | | | | | 1,537 | 19,126 |
| 1954 | | | | | | | 3,156 | 22,760 |
| 1955 | | | | | | | 1,779 | 22,721 |
| 1956 | 777 | 9,806 | 155 | 1,675 | 191 | 5,389 | 1,123 | 16,870 |
| 1957 | 519 | 7,292 | 37 | 2,053 | 243 | 4,817 | 799 | 14,162 |
| 1958 | 361 | 5,308 | 92 | 3,346 | 194 | 3,820 | 647 | 12,474 |
| 1959 | 424 | 6,347 | 491 | 16,036 | 195 | 4,190 | 1,110 | 26,573 |
| 1960 | [c] | [c] | 90 | 2,083 | 918 | 18,812 | 1,008 | 20,895 |
| 1961 | [c] | [c] | 18 | 266 | 809 | 17,758 | 827 | 18,024 |
| 1962 | [c] | [c] | 25 | 402 | 835 | 12,836 | 860 | 13,238 |
| 1963 | [c] | [c] | 33 | 518 | 750 | 17,492 | 783 | 18,010 |
| 1964 | [c] | [c] | 772 | 7,356 | 1,940 | 31,327 | 2,712 | 38,683 |

[a] Including Kaolin and white potter's clay. [b] Including kaolinised sillimanite. [c] Ceased to be a separate item and included under 'Other Clays n.e.i.'.

## CLAYS—IMPORTS—AUSTRALIA

| Year | Ball Clay | | White Clays | | Fireclay | | Clay n.e.i. | |
|---|---|---|---|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1950 | 225 | 1,780 | 2,108 | 11,305 | 224 | 4,223 | 691 | 11,724 |
| 1951 | 444 | 3,104 | 643 | 9,333 | 572 | 7,015 | 963 | 16,889 |
| 1952 | 506 | 3,978 | 2,710 | 21,733 | 386 | 7,963 | 547 | 14,641 |
| 1953 | 229 | 2,315 | 129 | 2,401 | 587 | 11,098 | 587 | 13,158 |
| 1954 | 358 | 3,156 | 433 | 7,569 | 672 | 21,366 | 1,865 | 42,256 |
| 1955 | 479 | 4,083 | 5,552 | 42,689 | 736 | 23,660 | 2,393 | 49,517 |
| 1956 | 773 | 8,264 | 9,168 | 72,193 | 789 | 23,804 | 1,920 | 30,063 |
| 1957 | 558 | 6,257 | 6,631 | 64,928 | 831 | 26,134 | 2,403 | 36,044 |
| 1958 | 407 | 7,234 | 2,502 | 31,382 | 594 | 20,825 | 2,585 | 40,697 |
| 1959 | 798 | 13,327 | 14,654 | 114,052 | 698 | 20,127 | 4,764 | 80,543 |
| 1960 | 653 | 7,163 | 9,093 | 100,077 | 1,048 | 34,978 | 6,434 | 106,338 |
| 1961 | 650 | 7,805 | 14,890 | 131,359 | 293 | 11,507 | 5,594 | 115,964 |
| 1962 | 2,503 | 25,791 | 12,389 | 114,253 | 1,467 | 23,528 | 6,221 | 151,351 |
| 1963 | 2,082 | 24,302 | 22,119 | 199,779 | 1,623 | 32,684 | 5,866 | 124,900 |
| 1964 | 3,775 | 44,823 | 20,918 | 203,400 | 4,311 | 85,432 | 9,427 | 176,872 |

## RECORDED FIRECLAY PRODUCTION—QUEENSLAND

| Year | tons | Year | tons | Year | tons | Year | tons |
|---|---|---|---|---|---|---|---|
| 1907 | 1,400 | 1916 | 8,708 | 1925 | 2,886 | 1958 | 7,161 |
| A1908 | 2,680 | 1917 | 10,602 | 1926 | 335 | 1959 | 8,443 |
| 1909 | 3,077 | 1918 | 8,306 | 1927–1951 | — | | |
| | | 1919 | 8,368 | | | 1960 | 12,571 |
| 1910 | 4,186 | | | 1952 | 9,708 | 1961 | 11,587 |
| 1911 | 5,812 | 1920 | 7,539 | 1953 | 8,038 | 1962 | 2,948 |
| 1912 | 6,336 | 1921 | 1,691 | 1954 | 8,459 | 1963 | 13,998 |
| 1913 | 8,388 | 1922 | 5,795 | | | 1964 | 16,188 |
| 1914 | 5,317 | 1923 | 7,399 | 1955 | 8,812 | | |
| | | 1924 | 5,107 | 1956 | 8,508 | | |
| 1915 | 4,963 | | | 1957 | 8,526 | | |

## RECORDED CLAY PRODUCTION—NEW SOUTH WALES

| Year | White Clay (Kaolin—Ball) | Fireclay | Brick, Tile, Pipe and Pottery Clays | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1923 | 3,632 | 7,363 | 53,658 | 64,653 |
| 1924 | 3,087 | 8,962 | 101,299 | 113,348 |
| 1925 | 3,793 | 17,659 | 1,502,555 | 1,524,007 |
| 1926 | 4,748 | 18,420 | 1,807,096 | 1,830,246 |
| 1927 | 11,319 | 34,494 | 1,955,129 | 2,000,942 |
| 1928 | 9,249 | 27,705 | 2,115,641 | 2,152,595 |
| 1929 | 4,225 | 34,642 | 1,905,355 | 1,944,222 |
| 1930 | 2,299 | 11,732 | 730,699 | 744,730 |
| 1931 | 2,576 | 15,646 | 215,074 | 233,296 |
| 1932 | 2,731 | 17,942 | 252,984 | 273,657 |
| 1933 | 4,793 | 19,831 | 610,256 | 634,880 |
| 1934 | 8,566 | 26,087 | 975,041 | 1,009,694 |
| 1935 | 9,975 | 29,839 | 1,899,909 | 1,939,723 |
| 1936 | 29,950 | 33,916 | 1,429,203 | 1,547,134 |
| 1937 | 10,660 | 44,063 | 1,351,206 | 1,476,095 |
| 1938 | 16,161 | 47,234 | 1,611,469 | 1,758,963 |
| 1939 | 11,833 | 42,922 | 1,634,355 | 1,717,996 |
| 1940 | 15,315 | 35,544 | 1,203,488 | 1,254,347 |
| 1941 | 19,810 | 44,732 | 1,081,874 | 1,146,416 |
| 1942 | 17,761 | 47,033 | 779,788 | 844,582 |
| 1943 | 19,857 | 57,058 | 237,494 | 314,409 |
| 1944 | 19,222 | 46,851 | 276,834 | 342,907 |

| Year | White Clay (Kaolin—Ball) | Fireclay | Brick, Tile, Pipe and Pottery Clays | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1945 | 18,026 | 37,836 | 412,760 | 468,62 |
| 1946 | 21,021 | 37,969 | 935,384 | 994,1 |
| 1947 | 18,640 | 68,029 | 1,293,192 | 1,739,8 |
| 1948 | 20,138 | 42,434 | 1,238,321 | 1,300,8 |
| 1949 | 15,670 | 44,843 | 1,139,723 | 1,200,2 |
| 1950 | 23,516 | 67,619 | 1,567,070 | 1,657,7 |
| 1951 | 27,811 | 76,283 | 1,627,127 | 1,731,2 |
| 1952 | 21,543 | 74,462 | 1,419,539 | 1,515,5 |
| 1953 | 22,518 | 78,971 | 1,543,102 | 1,644,5 |
| 1954 | 23,159 | 60,038 | 1,764,506 | 1,847,7 |
| 1955 | 27,352 | 65,421 | 1,741,020 | 1,833,7 |
| 1956 | 23,007 | 82,219 | 1,665,773 | 1,770,9 |
| 1957 | 22,618 | 102,508 | 1,684,022 | 1,819,1 |
| 1958 | 23,216 | 87,763 | 1,898,558 | 2,009,5 |
| 1959 | 23,888 | 89,988 | 2,099,155 | 2,213,0 |
| 1960 | 37,973 | 88,872 | 2,280,483 | 2,407,3 |
| 1961 | 37,866 | 113,055 | 2,263,017 | 2,413,9 |
| 1962 | 21,072 | 120,753 | 2,173,203 | 2,315,0 |
| 1963 | 27,161 | 104,578 | 2,171,021 | 2,302,7 |
| 1964 | 22,089 | 102,298 | 2,300,560 | 2,424,9 |

## RECORDED PRODUCTION OF CLAY SHALE FOR "PORTLAND" CEMENT—NEW SOUTH WALES

| Year | tons | Year | tons | Year | tons | Year | tons |
|---|---|---|---|---|---|---|---|
| 1936 | 54,065 | 1944 | 53,593 | 1951 | 76,519 | 1959 | 121,460 |
| 1937 | 70,166 | | | 1952 | 80,358 | | |
| 1938 | 84,099 | 1945 | 59,904 | 1953 | 105,616 | 1960 | 177,624 |
| 1939 | 28,886 | 1946 | 61,394 | 1954 | 114,254 | 1961 | 158,527 |
| | | 1947 | 82,798 | | | 1962 | 274,351 |
| 1940 | 61,779 | 1948 | 37,680 | 1955 | 114,483 | 1963 | 189,974 |
| 1941 | 81,609 | 1949 | 50,571 | 1956 | 115,564 | 1964 | 208,678 |
| 1942 | 46,850 | | | 1957 | 117,100 | | |
| 1943 | 34,014 | 1950 | 100,698 | 1958 | 126,668 | | |

RECORDED WHITE CLAY PRODUCTION—NEW SOUTH WALES

| Year | Goulburn District | Lithgow District | Orange District | Mudgee District | Gulgong District | Pambula District | Sydney District | Urana District | Gunning District | Wallendbeen District | Others | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 915 | 131 | — | — | — | 160 | — | — | — | — | — | — | — |
| 916 | 150 | — | — | — | 170 | — | — | — | — | 456 | — | — |
| 917 | 200 | — | — | — | 80 | 1,000 | — | — | — | 552 | — | — |
| 918 | — | — | — | — | — | — | — | — | — | 439 | — | — |
| 919 | 220 | — | — | — | 276 | — | 637 | — | — | 339 | 600 | — |
| 920 | — | 237 | 132 | 300 | 381 | 362 | 825 | — | 300 | 373 | 200 | — |
| 921 | 319 | — | 194 | 250 | 788 | — | — | — | — | 52 | 40 | — |
| 922 | 446 | 417 | — | 259 | 517 | — | 431 | — | 220 | — | 182 | — |
| 923 | 95 | 339 | 219 | 175 | 895 | 50 | 1,500 | — | 132 | — | 90 | — |
| 924 | 131 | 302 | 186 | 758 | 653 | 22 | 624 | — | 50 | — | 361 | — |
| 925 | [a] | [a] | — | [a] | — | — | [a] | — | [a] | — | [a] | 3,793 |
| 926 | 90 | 624 | 125 | 827 | 921 | — | 1,621 | — | 124 | — | 415 | 4,748 |
| 927 | 268 | 179 | 257 | 645 | 1,221 | 11 | 7,527 | — | 80 | — | 1,231 | 11,319 |
| 928 | 110 | 501 | 252 | 263 | 753 | — | 6,947 | — | 200 | — | 223 | 9,249 |
| 929 | 11 | 439 | 208 | 423 | 849 | 32 | 2,278 | — | 200 | — | 242 | 4,682 |
| 930 | 30 | 353 | 150 | — | 555 | — | 977 | — | — | — | 234 | 2,299 |
| 931 | 46 | 190 | 187 | 104 | 1,325 | — | 642 | — | — | — | 82 | 2,576 |
| 932 | — | 208 | 172 | 103 | 1,560 | — | 509 | — | 60 | — | 119 | 2,731 |
| 933 | 57 | 393 | — | 222 | 1,593 | — | [a] | — | 90 | — | 2,438 | 4,793 |
| 934 | 45 | 482 | 394 | 478 | 4,705 | 16 | 1,331 | — | — | — | 1,055 | 8,566 |
| 935 | — | [a] | [a] | [a] | [a] | — | [a] | — | — | — | [e]n.a. | 9,975 |
| 936 | — | [a] | [a] | [a] | 27,977 | — | [a] | — | — | — | 1,973 | 29,950 |
| 937 | [a] | 457 | — | 382 | 9,121 | — | 563 | — | [a] | — | 137 | 10,660 |
| 938 | — | — | — | 319 | 14,540 | [a] | 1,220 | — | [a] | — | 82 | 16,161 |
| 939 | — | — | 304 | 421 | 10,080 | [a] | 565 | — | — | — | 463 | 11,833 |
| 940 | — | 485 | — | — | 11,709 | — | 130 | — | 1,912 | — | 1,079 | 15,315 |
| 941 | 120 | — | — | 455 | 14,746 | 1,464 | 109 | — | — | — | 867 | 17,761 |
| 942 | 50 | — | 412 | 622 | 16,099 | — | 538 | — | — | — | 40 | 17,761 |
| 943 | — | — | — | 535 | 18,240 | — | 1,082 | — | — | — | — | 19,857 |
| 944 | — | 502 | 278 | 636 | 14,170 | 30 | 94 | — | — | — | 3,512 | 19,222 |
| 945 | — | — | 193 | 891 | 13,069 | 150 | 992 | 2,627 | 30 | — | 74 | 18,026 |
| 946 | — | — | 253 | 492 | 13,761 | 40 | 88 | 6,300 | — | — | 87 | 21,021 |
| 947 | 106 | 471 | 235 | 378 | 13,909 | — | [a] | 3,444 | 7 | — | 90 | 18,640 |
| 948 | 2,138 | — | [e]300 | [e]500 | [e]8,500 | [e]20 | 1,581 | 3,333 | — | — | [e]3,766 | 20,138 |
| 949 | 1,380 | — | 116 | 540 | 5,079 | — | 2,394 | 6,076 | 15 | — | 70 | 15,670 |
| 950 | 1,620 | 800 | 262 | 826 | 8,515 | — | 4,027 | 7,430 | 10 | — | 26 | 23,516 |
| 951 | 493 | 1,284 | 280 | 1,515 | 12,395 | 24 | 4,311 | 7,462 | 9 | — | 38 | 27,811 |
| 952 | 1,321 | 1,441 | 134 | 1,655 | 8,612 | 146 | 4,464 | 3,744 | 8 | — | 18 | 21,543 |
| 953 | 2,501 | 2,218 | 30 | 1,083 | 8,020 | 266 | 5,399 | 2,954 | 9 | — | 38 | 22,518 |
| 954 | 1,996 | 997 | 104 | 1,789 | 8,606 | 197 | 5,410 | 4,034 | 10 | — | 16 | 23,159 |
| 955 | 839 | 1,335 | 89 | 1,901 | 10,150 | 102 | 8,085 | 4,776 | 9 | — | 66 | 27,352 |
| 956 | 747 | 760 | 105 | 873 | 10,049 | 298 | 5,216 | 4,910 | — | — | 49 | 23,007 |
| 957 | 104 | 1,118 | 30 | 1,980 | 8,898 | 216 | 5,219 | 4,907 | 10 | — | 136 | 22,618 |
| 958 | 1,099 | 722 | 159 | 1,683 | 11,917 | 65 | 4,560 | 2,721 | 8 | — | 282 | 23,216 |
| 959 | 30 | 288 | 292 | 2,169 | 11,137 | 281 | 3,383 | 5,044 | 6 | — | 1,258 | 23,888 |
| 960 | 421 | 309 | 514 | 636 | 10,157 | 601 | 11,902 | 6,180 | 4 | — | 7,549 | 37,973 |
| 961 | 1,519 | 547 | 618 | 2,109 | 6,311 | — | 1,575 | 7,396 | — | — | 7,791 | 37,866 |
| 962 | 30 | — | 355 | 1,474 | 14,952 | 176 | 200 | 2,555 | — | — | 1,330 | 21,072 |
| 963 | 775 | 517 | — | 1,968 | 10,566 | 143 | 6,660 | 3,071 | — | — | 3,461 | 27,161 |
| 964 | 30 | — | — | 3,363 | 10,990 | — | — | 7,262 | — | — | 444 | 22,089 |

[a] Producing centre, quantities not stated.

RECORDED KAOLIN PRODUCTION—VICTORIA
(Returns from brick, firebrick and pottery companies not included)

| Year | Egerton | Lal Lal | Stawell | Pyalong | Axedale | Bendigo | Heyfield | Various | Total |
|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1912 | 238 | — | — | 50 | — | — | — | — | 288 |
| 1913 | 248 | — | — | 300 | 970 | — | — | — | 1,518 |
| 1914 | 181 | — | — | 300 | 325 | — | — | 2 | 808 |
| 1915 | 250 | — | — | 10 | 142 | — | — | — | 402 |
| 1916 | 610 | — | — | 200 | — | — | — | — | 810 |
| 1917 | 861 | — | 312 | 200 | — | — | — | 200 | 1,573 |
| 1918 | 810 | — | 352 | 1,000 | — | — | — | 331 | 2,493 |
| 1919[a] | 2,138 | — | 552 | 1,200 | — | — | — | 259 | 2,059 |
| 1920[a] | — | — | — | — | — | — | — | — | 2,130 |
| 1921 | 1,160 | — | 125 | 350 | — | 508 | — | — | 2,142 |
| 1922 | 1,309 | — | 294 | 300 | — | 457 | — | — | 2,340 |
| 1923 | 685 | — | 265 | 250 | — | 1,337 | — | — | 2,317 |
| 1924 | 806 | — | 150 | 200 | — | 585 | — | — | 1,741 |
| 1925 | 579 | — | 149 | 150 | — | 716 | — | — | 1,594 |
| 1926 | 674 | — | 106 | 1,300 | — | 213 | — | 860 | 3,153 |
| 1927 | 1,512 | — | 71 | 814 | — | — | — | 76 | 2,473 |
| 1928 | 1,344 | — | 134 | 157 | — | — | — | — | 1,635 |
| 1929 | 1,421 | — | 153 | 83 | — | — | — | 60 | 1,717 |
| 1930 | 1,149 | — | 95 | 90 | 617 | — | — | — | 1,951 |
| 1931 | 1,240 | — | 81 | 103 | 1,585 | — | — | — | 2,973 |
| 1932 | 1,340 | — | 130 | 23 | 511 | — | — | — | 2,004 |
| 1933 | 1,581 | — | 99 | 121 | 1,376 | — | — | — | 3,177 |
| 1934 | 2,244 | — | 51 | 125 | 872 | — | — | — | 3,292 |
| 1935 | 2,502 | — | 79 | 207 | 1,712 | — | — | — | 4,500 |
| 1936 | 3,340 | — | 45 | 175 | 1,626 | — | — | — | 5,186 |
| 1937 | 3,160 | — | 62 | 321 | 2,143 | — | — | — | 5,686 |
| 1938 | 2,795 | 312 | — | 287 | 2,262 | — | — | — | 5,656 |
| 1939 | 3,069 | 841 | — | 32 | 1,808 | — | — | 113 | 5,863 |
| 1940 | 995 | 830 | — | — | 1,285 | — | — | 88 | 3,198 |
| 1941 | 3,308 | 939 | — | 42 | 305 | — | — | 1,047 | 5,641 |
| 1942 | 2,295 | 600 | — | 105 | 240 | — | — | — | 3,240 |
| 1943 | 1,863 | 556 | — | — | 1,321 | — | — | — | 3,740 |
| 1944 | 1,611 | 343 | — | — | 956 | — | — | 2,601 | 5,511 |
| 1945 | 1,231 | 938 | — | — | — | — | — | 1,293 | 3,662 |
| 1946 | 1,593 | 632 | — | — | 3,495 | — | 155 | — | 5,875 |
| 1947 | 1,826 | 606 | — | — | 3,710 | — | 103 | — | 6,245 |
| 1948 | 2,403 | 637 | — | — | 3,750 | — | 129 | — | 6,919 |
| 1949 | 2,370 | 752 | — | — | 4,809 | 973 | 147 | — | 9,051 |
| 1950 | 243 | 2,337 | — | — | 1,532 | 1,620 | 196 | 1,620 | 9,558 |
| 1951 | 1,553 | 1,492 | — | — | 2,678 | 1,435 | 157 | 1,435 | 10,862 |
| 1952 | 1,257 | 850 | — | — | 4,821 | 1,305 | 225 | 1,305 | 10,281 |
| 1953[b] | 2,047 | 657 | — | — | — | — | — | — | 2,704 |
| 1954 | 2,271 | 304 | — | — | — | — | — | — | 2,575 |
| 1955 | 2,945 | — | — | — | — | — | — | — | 2,945 |
| 1956 | 5,867 | — | — | — | — | — | — | — | 5,867 |
| 1957 | 3,661 | — | — | — | — | — | — | — | 3,661 |
| 1958 | 5,631 | — | — | — | — | — | — | — | 5,631 |
| 1959 | 6,088 | — | — | — | — | — | — | — | 6,088 |
| 1960 | 5,938 | — | — | — | — | — | — | — | 5,938 |
| 1961 | 5,109 | 3,907 | — | — | — | — | — | — | 9,016 |
| 1962 | 6,514 | 4,890 | — | — | — | — | — | — | 11,404 |
| 1963 | 12,570 | 6,053 | — | — | — | — | — | — | 18,623 |
| 1964 | 6,108 | 6,228 | — | — | — | — | — | 5,109 | 17,445 |

[a] Statistics by districts for 1919 and 1920 not available. Figures shown against 1919 are the combined totals by districts for 1919 and 1920. [b] As from 1953, clay production has been classified as "Kaolin" and "Other White Clays" as distinct from "Kaolin and Other Pottery Clays" prior to that year. Statistics from 1953 include only clays specifically described as "Kaolin".

# CLAYS

## RECORDED KAOLIN PRODUCTION—TASMANIA

| Year | tons |
|---|---|
| 1940 | 836 |
| 1941 | 1,130 |
| 1942 | 998 |
| 1943 | 1,655 |
| 1944 | 4,193 |
| 1945 | 5,718 |
| 1946 | 6,331 |
| 1947 | 3,076 |
| 1948 | 6,741 |
| 1949 | 7,316 |
| 1950 | 10,199 |
| 1951 | 8,075 |
| 1952 | 8,366 |
| 1953 | 9,061 |
| 1954 | 7,948 |
| 1955 | 9,740 |
| 1956 | 6,267 |
| 1957 | 6,038 |
| 1958 | 3,302 |
| 1959 | 1,195 |
| 1960 | 964 |
| 1961 | 1,232 |
| 1962 | 606 |
| 1963–64 | — |

## RECORDED CLAY PRODUCTION—SOUTH AUSTRALIA

| Year | Kaolin | Fireclay and Pipe Clay | Brick Clay and Shale |
|---|---|---|---|
| | tons | tons | tons |
| 1910 | — | 922 | — |
| 1911 | — | 1,463 | — |
| 1912 | — | 200 | — |
| 1913 | — | 320 | — |
| 1914 | 10,239 | 1,223 | — |
| 1915 | 1,209 | 7,165 | — |
| 1916 | 1,635 | 1,605 | — |
| 1917 | 1,967 | 1,874 | — |
| 1918 | 2,513 | 1,501 | — |
| 1919 | 777 | 3,405 | — |
| 1920 | 693 | 42 | — |
| 1921 | — | 173 | — |
| 1922 | — | 1,482 | — |
| 1923 | — | — | — |
| 1924 | — | 436 | 262,848 |
| 1925 | 490 | 17,498 | 326,922 |
| 1926 | 200 | 26,131 | 395,129 |
| 1927 | 150 | 26,376 | 377,195 |
| 1928 | 160 | 24,626 | 220,734 |
| 1929 | 140 | 21,618 | 149,184 |
| 1930 | 521 | 12,948 | 47,041 |
| 1931 | 639 | 4,281 | 17,269 |
| 1932 | 375 | 9,700 | 33,849 |
| 1933 | 507 | 13,884 | 66,970 |
| 1934 | 220 | 12,063 | 64,370 |
| 1935 | 186 | 17,162 | 146,649 |
| 1936 | 200 | 17,967 | 168,135 |
| 1937 | 292 | 26,478 | 152,860 |

| Year | Clay—All Types except Tile and Brick | Brick—Clay and Shales |
|---|---|---|
| | tons | tons |
| 1938 | 24,087 | 197,047 |
| 1939 | 21,916 | 216,940 |
| 1940 | 40,773 | 235,340 |
| 1941 | 41,339 | — |
| 1942 | 38,979 | 130,949 |
| 1943 | 26,130 | 63,550 |
| 1944 | 25,262 | 62,259 |
| 1945 | 18,590 | 112,985 |
| 1946 | 25,669 | 119,154 |
| 1947 | 21,668 | 212,130 |
| 1948 | 32,726 | 205,996 |
| 1949 | 40,985 | 210,316 |
| 1950 | 55,502 | 227,711 |
| 1951 | 44,977 | 212,243 |
| 1952 | 70,268 | 218,297 |
| 1953 | 85,383 | 258,250 |
| 1954 | 89,525 | 302,942 |
| 1955 | 80,383 | 306,215 |
| 1956 | 83,889 | 325,788 |
| 1957 | 82,285 | 368,154 |
| 1958 | 62,955 | 373,094 |
| 1959 | 91,249 | 441,354 |
| 1960 | 95,824 | 407,840 |
| 1961 | 86,706 | 311,257 |
| 1962 | 68,035 | 338,180 |
| 1963 | 81,099 | 407,247 |
| 1964 | 76,816 | 517,087 |

RECORDED CLAY PRODUCTION—WESTERN AUSTRALIA

| Year | Kaolin | Pottery Clay | Fire Clay | Cement Clay | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1922 | — | — | 678 | — | 678 |
| 1923 | — | — | 34 | — | 34 |
| 1928 | — | — | 373 | — | 373 |
| 1932 | — | 76 | — | — | 76 |
| 1934 | — | 55 | — | — | 55 |
| 1936 | — | — | 4 | — | 4 |
| 1939 | 408 | — | 422 | — | 830 |
| 1940 | 1,649 | — | 1,422 | — | 3,071 |
| 1941 | 681 | — | 718 | — | 1,399 |
| 1942 | 50 | — | 747 | — | 797 |
| 1943 | 467 | — | 2,112 | — | 2,579 |
| 1944 | 124 | — | 1,360 | — | 1,484 |
| 1945 | 54 | — | 1,235 | 776 | 2,372 |
| 1946 | — | — | 2,744 | 890 | 3,534 |
| 1947 | 581 | 3,900 | 6,278 | 714 | 11,473 |
| 1948 | 146 | 739 | 4,859 | 1,112 | 6,856 |
| 1949 | 80 | 4,131 | 5,473 | 443 | 10,127 |
| 1950 | — | 600 | 5,839 | 35,187 | 41,626 |
| 1951 | 12 | 1,100 | 8,143 | 19,637 | 28,892 |
| 1952 | 268 | 805 | 9,608 | 15,310 | 25,993 |
| 1953 | 478 | — | 8,818 | 13,620 | 22,916 |
| 1954 | 4,020 | — | 6,738 | 11,901 | 22,659 |
| 1955 | 76 | — | 6,912 | 34,924 | 41,912 |
| 1956 | 2,090 | — | 9,437 | 18,314 | 29,841 |
| 1957 | 203 | — | 17,647 | 11,551 | 29,401 |
| 1958 | 79 | — | 20,212 | 13,506 | 33,797 |
| 1959 | 1,190 | — | 26,202 | 22,321 | 49,713 |
| 1960 | — | — | 20,347 | 13,015 | 33,362 |
| 1961 | 771 | — | 26,384 | 17,864 | 45,019 |
| 1962 | 682 | — | 24,784 | 21,635 | 47,101 |
| 1963 | 920 | — | 25,001 | 18,772 | 44,693 |
| 1964 | 631 | — | 47,252 | 27,350 | 75,233 |

# BLACK COAL


Coal (Black) Production—Australia .. .. .. .. .. 92–94

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Coal (Black) Production—Queensland .. .. .. .. .. 97–98

Coal (Black) Production—New South Wales .. .. .. .. 99–100

Coal (Black) Production—Victoria .. .. .. .. .. 101–102

Coal (Black) Production—Tasmania .. .. .. .. .. 103–104

## COAL (BLACK) PRODUCTION—AUSTRALIA

| Year | Coal | | | | | | |
|---|---|---|---|---|---|---|---|
| | Queensland | New South Wales | Victoria | Tasmania | South Australia[a] | Western Australia[b] | Australia |
| | tons | tons | tons | tons | tons | tons | tons |
| Total to end of 1860 | 12,327 | 2,362,433 | — | 62,779 | — | — | 2,437,539 |
| 1861 | 14,212 | 342,067 | — | — | — | — | 356,279 |
| 1862 | 24,067 | 476,522 | — | — | — | — | 500,587 |
| 1863 | 24,000 | 433,889 | — | — | — | — | 457,889 |
| 1864 | 25,000 | 549,012 | — | — | — | — | 574,012 |
| 1865 | 33,000 | 585,525 | 2,308 | — | — | — | 620,833 |
| 1866 | 39,316 | 774,238 | — | 14,309 | — | — | 827,863 |
| 1867 | 17,988 | 770,012 | — | 8,341 | — | — | 796,341 |
| 1868 | 19,611 | 954,231 | 100 | 9,054 | — | — | 982,996 |
| 1869 | 11,120 | 919,774 | — | 10,256 | — | — | 941,150 |
| 1870 | 22,639 | 868,564 | — | 9,786 | — | — | 900,989 |
| 1871 | 17,000 | 898,784 | — | 9,527 | — | — | 925,311 |
| 1872 | 27,727 | 1,012,426 | 10 | 8,141 | — | — | 1,048,304 |
| 1873 | 33,613 | 1,192,862 | 504 | 10,147 | — | — | 1,237,126 |
| 1874 | 43,443 | 1,304,612 | 2,909 | 9,276 | — | — | 1,360,240 |
| 1875 | 32,107 | 1,329,729 | — | 7,719 | — | — | 1,369,555 |
| 1876 | 50,627 | 1,319,918 | 1,095 | 6,100 | — | — | 1,377,740 |
| 1877 | 60,918 | 1,444,271 | 2,420 | 9,470 | — | — | 1,517,079 |
| 1878 | 52,580 | 1,575,497 | — | 12,311 | — | — | 1,640,388 |
| 1879 | 55,012 | 1,583,381 | — | 9,514 | — | — | 1,647,907 |
| 1880 | 58,052 | 1,466,180 | — | 12,219 | — | — | 1,536,451 |
| 1881 | 65,612 | 1,769,597 | 3 | 11,163 | — | — | 1,846,375 |
| 1882 | 74,436 | 2,109,282 | 10 | 8,803 | — | — | 2,192,531 |
| 1883 | 104,750 | 2,521,457 | 428 | 8,872 | — | — | 2,635,507 |
| 1884 | 120,727 | 2,749,109 | 3,280 | 7,194 | — | — | 2,880,310 |
| 1885 | 209,698 | 2,878,863 | 800 | 6,654 | — | — | 3,096,015 |
| 1886 | 228,656 | 2,830,175 | 1,088 | 10,391 | — | — | 3,070,310 |
| 1887 | 238,813 | 2,922,497 | 3,357 | 27,633 | — | — | 3,192,300 |
| 1888 | 311,412 | 3,203,444 | 8,573 | 41,577 | — | — | 3,565,006 |
| 1889 | 265,507 | 3,655,632 | 14,596 | 36,700 | — | — | 3,972,435 |
| 1890 | 338,344 | 3,060,876 | 14,601 | 50,519 | — | — | 3,464,340 |
| 1891 | 271,603 | 4,037,929 | 22,834 | 43,256 | — | — | 4,375,622 |
| 1892 | 265,086 | 3,780,968 | 23,363 | 36,008 | — | — | 4,104,425 |
| 1893 | 264,403 | 3,278,328 | 91,726 | 34,693 | — | — | 3,669,150 |
| 1894 | 270,705 | 3,672,076 | 171,660 | 30,499 | — | — | 4,144,940 |
| 1895 | 323,068 | 3,738,589 | 194,227 | 32,698 | — | — | 4,288,582 |
| 1896 | 371,390 | 3,909,517 | 226,562 | 41,904 | — | — | 4,549,373 |
| 1897 | 358,407 | 4,383,591 | 236,277 | 42,196 | — | — | 5,020,471 |
| 1898 | 407,934 | 4,706,251 | 242,860 | 47,678 | — | 3,508 | 5,408,231 |
| 1899 | 494,009 | 4,597,028 | 262,380 | 42,609 | — | 54,336 | 5,450,362 |
| 1900 | 497,132 | 5,507,497 | 211,596 | 50,633 | — | 118,410 | 6,385,268 |
| 1901 | 539,472 | 5,968,426 | 209,329 | 45,438 | — | 117,836 | 6,880,501 |
| 1902 | 501,531 | 5,942,011 | 225,164 | 48,863 | — | 140,884 | 6,858,453 |
| 1903 | 507,801 | 6,354,846 | 64,200 | 49,069 | — | 133,427 | 7,109,343 |
| 1904 | 512,015 | 6,019,809 | 121,741 | 61,109 | — | 138,550 | 6,853,224 |
| 1905 | 529,326 | 6,632,138 | 155,135 | 51,993 | — | 127,364 | 7,495,956 |
| 1906 | 606,772 | 7,626,362 | 160,631 | 52,896 | — | 149,755 | 8,596,416 |
| 1907 | 683,272 | 8,657,924 | 138,584 | 58,891 | 12,455 | 142,373 | 9,693,499 |

[a] All produced in Leigh Creek. [b] All produced in Collie Coalfield.

COAL (BLACK) PRODUCTION—AUSTRALIA—*continued*

| Year | Coal | | | | | | |
|---|---|---|---|---|---|---|---|
| | Queensland | New South Wales | Victoria | Tasmania | South Australia[a] | Western Australia[b] | Australia |
| | tons | tons | tons | tons | tons | tons | tons |
| 1908 | 696,332 | 9,147,025 | 113,462 | 61,068 | — | 175,248 | 10,193,135 |
| 1909 | 756,577 | 7,019,879 | 128,173 | 66,162 | — | 214,302 | 8,185,093 |
| 1910 | 871,166 | 8,173,508 | 369,059 | 82,445 | — | 262,166 | 9,758,344 |
| 1911 | 891,568 | 8,691,604 | 653,864 | 57,067 | — | 249,899 | 10,544,002 |
| 1912 | 902,166 | 9,885,815 | 589,143 | 53,560 | — | 295,079 | 11,725,763 |
| 1913 | 1,037,944 | 10,414,165 | 593,912 | 55,043 | — | 313,818 | 12,414,882 |
| 1914 | 1,053,990 | 10,390,622 | 617,536 | 60,794 | — | 319,210 | 12,442,152 |
| 1915 | 1,024,273 | 9,449,008 | 588,104 | 64,536 | — | 286,666 | 11,412,587 |
| 1916 | 907,727 | 8,127,161 | 417,183 | 55,575 | — | 301,526 | 9,809,172 |
| 1917 | 1,048,473 | 8,292,867 | 466,220 | 63,412 | 713 | 326,550 | 10,198,235 |
| 1918 | 983,193 | 9,063,176 | 439,575 | 60,163 | — | 337,039 | 10,883,146 |
| 1919 | 931,631 | 8,631,554 | 423,945 | 66,253 | — | 401,713 | 10,455,096 |
| 1920 | 1,109,913 | 10,715,999 | 442,241 | 75,429 | — | 462,021 | 12,805,603 |
| 1921 | 954,763 | 10,793,387 | 514,859 | 66,476 | — | 468,817 | 12,798,302 |
| 1922 | 958,519 | 10,183,133 | 559,284 | 69,238 | — | 438,443 | 12,208,617 |
| 1923 | 1,060,662 | 10,478,513 | 476,823 | 80,718 | — | 420,714 | 12,517,430 |
| 1924 | 1,123,117 | 11,618,216 | 518,315 | 75,988 | — | 421,864 | 13,757,500 |
| 1925 | 1,177,173 | 11,396,199 | 534,246 | 81,698 | — | 437,461 | 13,626,777 |
| 1926 | 1,221,059 | 10,885,766 | 591,001 | 102,358 | — | 474,819 | 13,275,003 |
| 1927 | 1,099,040 | 11,126,114 | 684,245 | 112,056 | — | 501,505 | 13,522,960 |
| 1928 | 1,076,340 | 9,448,197 | 658,323 | 128,500 | — | 528,420 | 11,839,780 |
| 1929 | 1,368,745 | 7,617,736 | 703,828 | 130,291 | — | 544,719 | 10,365,319 |
| 1930 | 1,094,676 | 7,093,055 | 703,487 | 138,716 | — | 501,425 | 9,531,359 |
| 1931 | 841,308 | 6,432,382 | 571,342 | 123,828 | — | 432,400 | 8,401,260 |
| 1932 | 841,711 | 6,784,222 | 432,353 | 111,853 | — | 415,719 | 8,585,858 |
| 1933 | 875,567 | 7,118,437 | 523,000 | 116,573 | — | 458,399 | 9,091,976 |
| 1934 | 956,558 | 7,873,180 | 356,958 | 113,633 | — | 500,343 | 9,800,672 |
| 1935 | 1,051,978 | 8,698,579 | 476,495 | 123,714 | — | 537,188 | 10,887,954 |
| 1936 | 1,046,879 | 9,199,466 | 426,725 | 132,264 | — | 565,075 | 11,370,409 |
| 1937 | 1,120,179 | 10,051,519 | 257,945 | 91,121 | — | 553,510 | 12,074,274 |
| 1938 | 1,113,426 | 9,570,930 | 307,258 | 83,753 | — | 604,792 | 11,680,159 |
| 1939 | 1,317,488 | 11,195,832 | 364,895 | 99,392 | — | 557,535 | 13,535,142 |
| 1940 | 1,285,328 | 9,550,098 | 267,694 | 83,136 | — | 539,427 | 11,725,683 |
| 1941 | 1,454,024 | 11,765,698 | 326,441 | 109,714 | — | 556,574 | 14,212,451 |
| 1942 | 1,637,148 | 12,205,935 | 312,854 | 134,442 | 1,650 | 581,176 | 14,873,205 |
| 1943 | 1,699,521 | 11,473,499 | 287,100 | 145,882 | — | 531,546 | 14,137,548 |
| 1944 | 1,659,675 | 11,042,939 | 257,692 | 143,641 | 34,620 | 558,322 | 13,696,889 |
| 1945 | 1,634,746 | 10,176,254 | 247,297 | 149,077 | 41,452 | 543,363 | 12,792,189 |
| 1946 | 1,567,520 | 11,186,383 | 191,290 | 158,751 | 135,460 | 642,287 | 13,881,691 |
| 1947 | 1,883,414 | 11,683,123 | 173,683 | 167,140 | 193,351 | 730,506 | 14,831,217 |
| 1948 | 1,742,396 | 11,721,446 | 167,540 | 179,393 | 239,464 | 732,938 | 14,783,177 |
| 1949 | 1,970,388 | 10,736,098 | 122,507 | 181,618 | 344,638 | 750,594 | 14,105,843 |
| 1950 | 2,320,799 | 12,798,221 | 126,431 | 222,351 | 261,337 | 814,352 | 16,543,491 |
| 1951 | 2,473,775 | 13,513,244 | 147,743 | 236,888 | 388,303 | 848,475 | 17,608,428 |
| 1952 | 2,742,236 | 15,022,100 | 143,820 | 247,899 | 417,531 | 830,461 | 19,404,047 |
| 1953 | 2,516,812 | 14,173,831 | 151,907 | 233,629 | 448,484 | 886,182 | 18,410,845 |
| 1954 | 2,760,810 | 15,083,260 | 141,318 | 264,202 | 495,106 | 1,018,343 | 19,763,039 |

[a] All produced in Leigh Creek. [b] All produced in Collie Coalfield.

COAL (BLACK) PRODUCTION—AUSTRALIA—*continued*

| Year | Coal | | | | | | |
|---|---|---|---|---|---|---|---|
| | Queensland | New South Wales | Victoria | Tasmania | South Australia[a] | Western Australia[b] | Australia |
| | tons | tons | tons | tons | tons | tons | tons |
| 1955 | 2,747,165 | 14,736,397 | 132,888 | 299,221 | 455,287 | 903,792 | 19,274,750 |
| 1956 | 2,734,659 | 14,810,165 | 118,827 | 298,713 | 481,463 | 830,007 | 19,273,834 |
| 1957 | 2,701,577 | 15,390,236 | 111,569 | 268,140 | 608,913 | 838,661 | 19,919,096 |
| 1958 | 2,580,373 | 15,850,948 | 108,359 | 276,268 | 755,022 | 870,882 | 20,441,852 |
| 1959 | 2,594,387 | 15,712,440 | 90,438 | 299,368 | 690,374 | 911,435 | 20,298,442 |
| 1960 | 2,650,112 | 17,736,994 | 76,972 | 297,670 | 884,819 | 922,393 | 22,568,960 |
| 1961 | 2,782,166 | 19,020,805 | 66,363 | 255,828 | 1,115,156 | 765,740 | 24,006,058 |
| 1962 | 2,798,841 | 19,030,418 | 56,721 | 272,342 | 1,392,085 | 919,112 | 24,469,519 |
| 1963 | 3,244,159 | 18,940,206 | 50,481 | 207,282 | 1,511,719 | 902,495 | 24,856,342 |
| 1964 | 3,180,402 | 20,699,056 | 47,058 | 151,161 | 1,736,113 | 987,420 | 27,401,210 |
| Total | 99,912,814 | 788,305,189 | 22,242,143 | 9,576,321 | 12,645,515 | 33,851,311 | 966,833,293 |

[a] All produced in Leigh Creek. [b] All produced in Collie Coalfield.

COAL (BLACK)—EXPORTS AND IMPORTS—AUSTRALIA

| EXPORTS | | | IMPORTS | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1903 | 2,020,686 | 1,053,903 | 1903 | 383 | 275 |
| 1904 | 1,611,332 | 786,490 | 1904 | 392 | 274 |
| 1905 | 2,025,778 | 861,692 | 1905 | 7,742 | 3,482 |
| 1906 | 2,061,804 | 894,002 | 1906 | 15,566 | 12,137 |
| 1907 | 2,647,557 | 1,229,052 | 1907 | 14,738 | 8,927 |
| 1908 | 2,560,842 | 1,348,926 | 1908 | 14,599 | 8,986 |
| 1909 | 1,582,758 | 839,077 | 1909 | 15,889 | 13,370 |
| 1910 | 1,703,125 | 910,063 | 1910 | 309,424 | 298,507 |
| 1911 | 1,687,857 | 900,622 | 1911 | 10,333 | 8,403 |
| 1912 | 2,152,385 | 1,147,013 | 1912 | 15,897 | 11,804 |
| 1913 | 2,098,505 | 1,121,505 | 1913 | 4,849 | 3,658 |
| 1914 | n.a. | n.a. | 1914 | n.a. | n.a. |
| 1914–15 | 1,371,745 | 720,632 | 1914–15 | 13,362 | 15,260 |
| 1915–16 | 929,998 | 508,446 | 1915–16 | 6,088 | 6,345 |
| 1916–17 | 646,552 | 415,560 | 1916–17 | 55,193 | 61,713 |
| 1917–18 | 356,723 | 260,351 | 1917–18 | 32,367 | 67,931 |
| 1918–19 | 528,093 | 387,422 | 1918–19 | 56,857 | 88,259 |
| 1919–20 | 1,013,377 | 832,807 | 1919–20 | 35,200 | 63,096 |
| 1920–21 | 2,161,344 | 2,238,996 | 1920–21 | 15,213 | 35,603 |
| 1921–22 | 1,028,767 | 1,099,899 | 1921–22 | 29,374 | 50,942 |
| 1922–23 | 1,114,115 | 1,200,167 | 1922–23 | 8,503 | 18,691 |
| 1923–24 | 1,336,489 | 1,460,148 | 1923–24 | 62,660 | 94,623 |
| 1924–25 | 978,083 | 1,079,584 | 1924–25 | 6,039 | 11,242 |
| 1925–26 | 794,340 | 881,679 | 1925–26 | 31,397 | 57,442 |
| 1926–27 | 807,148 | 965,899 | 1926–27 | 9,379 | 19,846 |
| 1927–28 | 555,617 | 690,995 | 1927–28 | 17,314 | 16,765 |
| 1928–29 | 346,658 | 428,754 | 1928–29 | 93,638 | 88,240 |
| 1929–30 | 294,503 | 346,916 | 1929–30 | 785,846 | 689,186 |
| 1930–31 | 388,335 | 412,723 | 1930–31 | 49,484 | 37,418 |
| 1931–32 | 344,015 | 341,800 | 1931–32 | 5,839 | 7,123 |
| 1932–33 | 282,977 | 281,512 | 1932–33 | 323 | 302 |
| 1933–34 | 292,416 | 269,296 | 1933–34 | 9,201 | 12,403 |
| 1934–35 | 305,139 | 273,305 | 1934–35 | 10,596 | 13,903 |

COAL (BLACK)—EXPORTS AND IMPORTS—AUSTRALIA

| EXPORTS | | | IMPORTS | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1935–36 | 307,540 | 276,553 | 1935–36 | 39,712 | 49,322 |
| 1936–37 | 340,388 | 300,457 | 1936–37 | 10,771 | 13,615 |
| 1937–38 | 392,873 | 354,754 | 1937–38 | 6,253 | 9,231 |
| 1938–39 | 382,085 | 347,054 | 1938–39 | 86,970 | 119,041 |
| 1939–40 | 264,469 | 251,055 | 1939–40 | 14,800 | 29,654 |
| 1940–41 | 330,103 | 331,532 | 1940–41 | 6,432 | 17,245 |
| 1941–42 | 241,004 | 259,093 | 1941–42 | 16 | 41 |
| 1942–43 | 254,043 | 296,533 | 1942–43 | 7,530 | 19,600 |
| 1943–44 | 157,741 | 182,354 | 1943–44 | 1,909 | 4,726 |
| 1944–45 | 189,198 | 223,677 | 1944–45 | 4,610 | 14,055 |
| 1946 | 88,598 | 111,787 | 1945–46 | 1,459 | 5,123 |
| 1947 | 48,364 | 66,806 | 1946–47 | 1,226 | 4,443 |
| 1948 | 49,904 | 103,578 | 1948 | 32,927 | 115,896 |
| 1949 | 48,247 | 143,961 | 1949 | 442,226 | 1,675,927 |
| 1950 | 67,391 | 203,415 | 1950 | 636,219 | 1,982,669 |
| 1951 | 111,043 | 428,702 | 1951 | 352,734 | 1,158,816 |
| 1952 | 176,828 | 827,025 | 1952 | 272,352 | 900,491 |
| 1953 | 376,779 | 1,581,507 | 1953 | 22,200 | 91,973 |
| 1954 | 367,774 | 1,453,009 | 1954 | 3,040 | 18,057 |
| 1955 | 202,062 | 843,913 | 1955 | 4,026 | 17,635 |
| 1956 | 239,379 | 943,873 | 1956 | 5,075 | 34,138 |
| 1957 | 759,095 | 3,055,767 | 1957 | 9,214 | 41,944 |
| 1958 | 823,925 | 3,408,310 | 1958 | 6,315 | 31,730 |
| 1959 | 794,190 | 3,177,683 | 1959 | 7,577 | 45,217 |
| 1960 | 1,810,755 | 6,483,191 | 1960 | 5,156 | 39,193 |
| 1961 | 2,850,307 | 11,504,597 | 1961 | 7,988 | 49,597 |
| 1962 | 2,909,169 | 11,694,419 | 1962 | 6,946 | 51,257 |
| 1963 | 3,174,773 | 13,336,717 | 1963 | 9,682 | 112,006 |
| 1964 | 4,805,953 | 20,523,409 | 1964 | 10,840 | 79,283 |

## COAL (BLACK) PRODUCTION—QUEENSLAND

| Year | Ipswich | Mary-borough | Bowen | Clermont | Too-woomba | Rock-hampton | Mt. Morgan | Mis-cellaneous[a] | Total [b] |
|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1860 | 12,327 | — | — | — | — | — | — | — | 12,327 |
| 1861 | 14,212 | — | — | — | — | — | — | — | 14,212 |
| 1862 | 24,067 | — | — | — | — | — | — | — | 24,067 |
| 1863 | 24,000 | — | — | — | — | — | — | — | 24,000 |
| 1864 | 25,000 | — | — | — | — | — | — | — | 25,000 |
| 1865 | 33,000 | — | — | — | — | — | — | — | 33,000 |
| 1866 | 39,316 | — | — | — | — | — | — | — | 39,316 |
| 1867 | 17,988 | — | — | — | — | — | — | — | 17,988 |
| 1868 | 19,611 | — | — | — | — | — | — | — | 19,611 |
| 1869 | 11,120 | — | — | — | — | — | — | — | 11,120 |
| 1870 | 22,639 | — | — | — | — | — | — | — | 22,639 |
| 1871 | 17,000 | — | — | — | — | — | — | — | 17,000 |
| 1872 | 27,727 | — | — | — | — | — | — | — | 27,727 |
| 1873 | 33,613 | — | — | — | — | — | — | — | 33,613 |
| 1874 | 43,443 | — | — | — | — | — | — | — | 43,443 |
| 1875 | 32,107 | — | — | — | — | — | — | — | 32,107 |
| 1876 | 50,627 | — | — | — | — | — | — | — | 50,627 |
| 1877 | 60,918 | — | — | — | — | — | — | — | 60,918 |
| 1878 | 52,580 | — | — | — | — | — | — | — | 52,580 |
| 1879 | 55,012 | — | — | — | — | — | — | — | 55,012 |
| 1880 | 58,052 | — | — | — | — | — | — | — | 58,052 |
| 1881 | 65,612 | — | — | — | — | — | — | — | 65,612 |
| 1882 | 74,436 | — | — | — | — | — | — | — | 74,436 |
| 1883 | 98,310 | 6,440 | — | — | — | — | — | — | 104,750 |
| 1884 | 114,577 | 6,150 | — | — | — | — | — | — | 120,727 |
| 1885 | 182,784 | 26,914 | — | — | — | — | — | — | 209,698 |
| 1886 | 189,608 | 39,048 | — | — | — | — | — | — | 228,656 |
| 1887 | 193,286 | 45,527 | — | — | — | — | — | — | 238,813 |
| 1888 | 254,778 | 56,634 | — | — | — | — | — | — | 311,412 |
| 1889 | 217,240 | 48,267 | — | — | — | — | — | — | 265,507 |
| 1890 | 276,063 | 58,781 | — | 3,500 | — | — | — | — | 338,344 |
| 1891 | 222,766 | 42,516 | — | 6,321 | — | — | — | — | 271,603 |
| 1892 | 215,535 | 42,268 | — | 7,283 | — | — | — | — | 265,086 |
| 1893 | 202,429 | 54,075 | — | 7,899 | — | — | — | — | 264,403 |
| 1894 | 207,672 | 56,035 | — | 6,998 | — | — | — | — | 270,705 |
| 1895 | 239,712 | 75,299 | — | 8,057 | — | — | — | — | 323,068 |
| 1896 | 280,094 | 80,320 | — | 10,976 | — | — | — | — | 371,390 |
| 1897 | 277,172 | 77,301 | — | 3,934 | — | — | — | — | 358,407 |
| 1898 | 310,444 | 91,890 | — | 5,600 | — | — | — | — | 407,934 |
| 1899 | 373,655 | 111,414 | — | 8,940 | — | — | — | — | 494,009 |
| 1900 | 379,504 | 110,849 | — | 6,774 | — | 5 | — | — | 497,132 |
| 1901 | 420,500 | 111,972 | — | 7,000 | — | — | — | — | 539,472 |
| 1902 | 390,603 | 105,181 | — | 5,747 | — | — | — | — | 501,531 |
| 1903 | 403,462 | 99,292 | — | 4,742 | — | 250 | — | 55 | 507,801 |
| 1904 | 408,186 | 90,056 | — | 4,773 | — | — | — | 9,000 | 512,015 |
| 1905 | 422,642 | 98,594 | — | 3,557 | Previously | 4,533 | — | — | 529,326 |
| 1906 | 509,989 | 86,634 | — | 2,570 | included | 7,509 | — | 79 | 606,772 |
| 1907 | 591,174 | 77,921 | — | 2,725 | in | 11,352 | — | 100 | 683,272 |
| 1908 | 591,535 | 84,817 | — | 4,697 | Ipswich | 13,783 | — | 1,498 | 696,332 |
| 1909 | 642,884 | 92,573 | — | 5,469 | District | 15,538 | — | 133 | 756,577 |
| 1910 | 729,012 | 93,055 | — | 34,707 | — | 14,392 | — | — | 871,166 |
| 1911 | 624,071 | 98,827 | — | 67,325 | 85,112 | 16,233 | — | — | 891,568 |
| 1912 | 598,505 | 119,732 | — | 79,501 | 90,966 | 13,447 | — | 15 | 902,166 |
| 1913 | 695,422 | 129,611 | — | 95,799 | 103,538 | 13,574 | — | — | 1,037,944 |
| 1914 | 718,205 | 118,120 | — | 102,980 | 105,645 | 7,818 | — | 1,222 | 1,053,990 |

[a] Includes production from following districts:—Chillagoe, Warwick, Roma, Mackay, Brisbane, Bundaberg, Eidsoold and Gladstone. [b] Not necessarily in agreement with previous columns.

COAL (BLACK) PRODUCTION—QUEENSLAND—*continued*

| Year | Ipswich | Mary-borough | Bowen | Clermont | Too-woomba | Rock-hampton | Mt. Morgan | Mis-cellaneous[a] | Total[b] |
|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1915 | 682,491 | 104,358 | — | 123,731 | 97,411 | 6,741 | — | 7,541 | 1,024,273 |
| 1916 | 583,692 | 79,726 | — | 124,483 | 99,511 | 5,034 | — | 15,281 | 907,727 |
| 1917 | 728,605 | 72,282 | — | 132,664 | 97,797 | 6,410 | — | 10,715 | 1,048,473 |
| 1918 | 678,931 | 62,948 | — | 122,812 | 94,242 | 7,955 | — | 16,305 | 983,193 |
| 1919 | 620,608 | 63,665 | 306 | 121,250 | 97,454 | 8,380 | — | 19,968 | 931,631 |
| 1920 | 763,590 | 61,170 | 3,914 | 145,001 | 102,074 | 10,522 | — | 23,642 | 1,109,913 |
| 1921 | 666,236 | 69,633 | 2,138 | 75,549 | 94,044 | 30,719 | — | 16,444 | 954,763 |
| 1922 | 579,184 | 79,306 | 11,806 | 104,141 | 93,524 | 20,723 | 47,350 | 22,483 | 958,519 |
| 1923 | 607,983 | 74,215 | 91,643 | 50,553 | 94,760 | 32,669 | 76,221 | 32,618 | 1,060,662 |
| 1924 | 596,721 | 105,180 | 103,986 | 55,799 | 93,252 | 35,819 | 87,963 | 44,397 | 1,123,117 |
| 1925 | 614,055 | 119,704 | 128,497 | 62,204 | 108,274 | 30,978 | 70,097 | 43,364 | 1,177,173 |
| 1926 | 649,184 | 109,519 | 174,904 | 77,947 | 104,535 | 31,831 | 36,143 | 36,987 | 1,221,059 |
| 1927 | 612,888 | 96,345 | 125,844 | 49,437 | 105,789 | 50,429 | 37,890 | 20,418 | 1,099,040 |
| 1928 | 583,990 | 94,031 | 161,813 | 54,847 | 72,535 | 51,113 | 9,088 | 48,923 | 1,076,340 |
| 1929 | 667,640 | 146,247 | 263,660 | 110,531 | 76,672 | 60,910 | — | 43,085 | 1,368,745 |
| 1930 | 566,391 | 106,525 | 223,032 | 49,712 | 67,894 | 51,109 | — | 30,013 | 1,094,676 |
| 1931 | 438,961 | 64,379 | 159,445 | 35,850 | 58,557 | 51,255 | — | 32,861 | 841,308 |
| 1932 | 436,684 | 64,765 | 152,786 | 48,929 | 54,303 | 45,754 | 2,201 | 36,284 | 841,711 |
| 1933 | 439,496 | 66,697 | 167,600 | 35,779 | 46,568 | 65,628 | 11,037 | 42,762 | 875,567 |
| 1934 | 469,843 | 73,201 | 198,237 | 54,860 | 42,392 | 50,283 | 15,904 | 51,838 | 956,558 |
| 1935 | 496,411 | 82,707 | 216,008 | 84,047 | 45,726 | 64,753 | 7,829 | 54,497 | 1,051,978 |
| 1936 | 499,732 | 71,405 | 213,267 | 81,650 | 41,618 | 77,379 | 7,490 | 54,338 | 1,046,879 |
| 1937 | 546,259 | 79,229 | 245,309 | 63,769 | 43,607 | 69,945 | 16,072 | 55,989 | 1,120,179 |
| 1938 | 547,901 | 77,162 | 224,778 | 88,409 | 46,483 | 64,174 | 13,698 | 50,821 | 1,113,426 |
| 1939 | 627,965 | 101,967 | 246,713 | 111,945 | 54,195 | 88,053 | 23,861 | 62,789 | 1,317,488 |
| 1940 | 625,683 | 100,682 | 212,412 | 125,846 | 59,440 | 86,108 | 20,569 | 54,588 | 1,285,328 |
| 1941 | 689,680 | 114,190 | 297,554 | 110,409 | 59,881 | 105,398 | 19,161 | 57,751 | 1,454,024 |
| 1942 | 751,177 | 127,975 | 347,381 | 142,607 | 73,768 | 119,673 | 18,561 | 56,006 | 1,637,148 |
| 1943 | 755,660 | 136,541 | 400,931 | 147,179 | 74,209 | 107,332 | 19,341 | 58,328 | 1,699,521 |
| 1944 | 802,268 | 128,606 | 316,016 | 145,237 | 82,909 | 108,043 | 13,593 | 62,998 | 1,659,675 |
| 1945 | 812,641 | 113,578 | 292,043 | 177,331 | 75,140 | 95,799 | 10,728 | 57,486 | 1,634,746 |
| 1946 | 823,737 | 103,929 | 234,512 | 161,777 | 81,258 | 82,699 | 31,118 | 48,490 | 1,567,520 |
| 1947 | 967,007 | 139,447 | 267,417 | 240,564 | 98,329 | 85,540 | 35,586 | 49,524 | 1,883,414 |
| 1948 | 902,411 | 117,337 | 238,487 | 216,610 | 92,024 | 73,611 | 43,245 | 58,671 | 1,742,396 |
| 1949 | 921,417 | 136,008 | 192,300 | 313,124 | 98,786 | 76,271 | 144,146 | 88,336 | 1,970,388 |
| 1950 | 1,144,980 | 151,475 | 213,908 | 295,635 | 118,235 | 84,970 | 206,886 | 104,710 | 2,320,799 |
| 1951 | 1,157,220 | 160,263 | 208,145 | 361,874 | 99,208 | 89,586 | 280,772 | 116,707 | 2,473,775 |
| 1952 | 1,263,854 | 158,748 | 223,788 | 389,270 | 112,137 | 84,357 | 382,043 | 128,039 | 2,742,236 |
| 1953 | 1,270,417 | 147,388 | 222,613 | 349,161 | 101,190 | 78,449 | 250,396 | 97,198 | 2,516,812 |
| 1954 | 1,399,635 | 146,924 | 273,525 | 315,959 | 101,105 | 97,293 | 324,986 | 104,383 | 2,760,810 |
| 1955 | 1,456,759 | 135,338 | 300,793 | 307,240 | 111,177 | 98,694 | 231,320 | 105,844 | 2,747,165 |
| 1956 | 1,421,473 | 132,852 | 397,934 | 272,823 | 107,469 | 103,334 | 201,846 | 96,928 | 2,734,659 |
| 1957 | 1,539,313 | 114,990 | 392,670 | 225,436 | 72,249 | 92,321 | 181,065 | 83,533 | 2,701,577 |
| 1958 | 1,490,735 | 108,025 | 431,483 | 190,285 | 61,966 | 77,763 | 153,760 | 66,356 | 2,580,373 |
| 1959 | 1,520,521 | 122,709 | 478,509 | 175,573 | 60,198 | 73,636 | 103,718 | 59,523 | 2,594,387 |
| 1960 | 1,628,633 | 121,692 | 411,821 | 170,696 | 63,123 | 75,942 | 126,736 | 51,469 | 2,650,112 |
| 1961 | 1,666,243 | 127,680 | 297,641 | 155,859 | 48,097 | 78,027 | 325,112 | 113,507 | 2,782,166 |
| 1962 | 1,657,733 | 136,348 | 367,312 | 141,617 | 52,658 | 82,595 | 301,584 | 52,253 | 2,792,100 |
| 1963 | 1,801,765 | 144,508 | 358,402 | 149,957 | 57,251 | 66,834 | 639,422 | 42,478 | 3,260,617 |
| 1964 | 1,844,416 | 155,376 | 304,065 | 141,459 | 63,307 | 51,014 | 1,143,189 | 31,991 | 3,734,817 |
| Total | 57,816,825 | 7,845,088 | 10,797,348 | 7,987,301 | 4,343,592 | 3,312,289 | 5,671,727 | 2,733,562 | 93,955,712 |

[a] Includes production from following districts:—Chillagoe, Warwick, Roma, Mackay, Brisbane, Bundaberg, Eidsoold and Gladstone. [b] Not necessarily in agreement with previous columns.

COAL (BLACK) PRODUCTION—NEW SOUTH WALES

| Year | Northern Coalfield | Southern Coalfield | Western Coalfield | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| Total to end of 1875 | n.a. | n.a. | n.a. | 14,774,680 |
| 1876 | 1,062,531 | 200,284 | 57,103 | 1,319,918 |
| 1877 | 1,151,389 | 216,940 | 75,942 | 1,444,271 |
| 1878 | 1,241,036 | 238,553 | 95,908 | 1,575,497 |
| 1879 | 1,196,321 | 267,018 | 120,041 | 1,583,381 |
| 1880 | 1,079,009 | 240,211 | 146,960 | 1,466,180 |
| 1881 | 1,352,472 | 253,283 | 163,842 | 1,769,597 |
| 1882 | 1,569,517 | 342,126 | 197,639 | 2,109,282 |
| 1883 | 1,899,620 | 389,419 | 232,418 | 2,521,457 |
| 1884 | 2,055,343 | 419,942 | 273,823 | 2,749,109 |
| 1885 | 2,113,373 | 453,728 | 311,762 | 2,878,863 |
| 1886 | 2,178,116 | 370,830 | 281,229 | 2,830,175 |
| 1887 | 2,243,792 | 376,568 | 302,137 | 2,922,497 |
| 1888 | 2,067,042 | 796,806 | 339,594 | 3,203,444 |
| 1889 | 2,624,347 | 701,572 | 329,713 | 3,655,632 |
| 1890 | 2,120,046 | 597,598 | 343,232 | 3,060,876 |
| 1891 | 2,853,251 | 837,873 | 346,805 | 4,037,929 |
| 1892 | 2,611,732 | 932,873 | 236,363 | 3,780,968 |
| 1893 | 2,203,480 | 884,469 | 190,378 | 3,278,328 |
| 1894 | 2,605,143 | 867,064 | 199,870 | 3,672,076 |
| 1895 | 2,631,222 | 916,503 | 190,865 | 3,738,589 |
| 1896 | 2,623,016 | 1,008,377 | 278,124 | 3,909,517 |
| 1897 | 3,176,869 | 918,862 | 287,860 | 4,383,591 |
| 1898 | 3,355,600 | 1,073,745 | 282,284 | 4,706,251 |
| 1899 | 3,259,708 | 1,119,503 | 217,817 | 4,597,028 |
| 1900 | 3,926,584 | 1,265,055 | 315,858 | 5,507,497 |
| 1901 | 3,999,252 | 1,544,454 | 424,720 | 5,968,426 |
| 1902 | 3,900,297 | 1,588,473 | 453,241 | 5,942,011 |
| 1903 | 4,410,565 | 1,476,005 | 468,276 | 6,354,846 |
| 1904 | 4,042,739 | 1,558,383 | 418,687 | 6,019,809 |
| 1905 | 4,645,742 | 1,556,678 | 429,718 | 6,632,138 |
| 1906 | 5,336,188 | 1,783,395 | 506,779 | 7,626,362 |
| 1907 | 6,058,580 | 1,835,425 | 763,919 | 8,657,924 |
| 1908 | 6,511,002 | 1,929,236 | 706,787 | 9,147,025 |
| 1909 | 4,801,361 | 1,619,675 | 598,843 | 7,019,879 |
| 1910 | 5,366,975 | 1,875,009 | 931,524 | 8,173,508 |
| 1911 | 5,793,646 | 2,066,621 | 831,337 | 8,691,604 |
| 1912 | 6,913,810 | 2,172,800 | 799,205 | 9,885,815 |
| 1913 | 7,402,627 | 2,081,472 | 930,066 | 10,414,165 |
| 1914 | 7,113,991 | 2,362,741 | 913,890 | 10,390,622 |
| 1915 | 6,307,015 | 2,261,398 | 880,595 | 9,449,008 |
| 1916 | 5,311,832 | 1,848,933 | 966,396 | 8,127,161 |
| 1917 | 5,380,957 | 1,841,869 | 1,070,041 | 8,292,867 |
| 1918 | 5,966,926 | 1,984,578 | 1,111,672 | 9,063,176 |
| 1919 | 5,629,253 | 1,826,574 | 1,175,727 | 8,631,554 |
| 1920 | 7,320,510 | 1,902,889 | 1,492,600 | 10,715,999 |
| 1921 | 7,493,002 | 2,062,958 | 1,237,427 | 10,793,387 |
| 1922 | 7,156,921 | 1,878,594 | 1,147,618 | 10,183,133 |
| 1923 | 6,861,759 | 2,170,699 | 1,446,055 | 10,478,513 |
| 1924 | 8,077,689 | 1,973,855 | 1,566,672 | 11,618,216 |

COAL (BLACK) PRODUCTION—NEW SOUTH WALES—*Cont.*

| Year | Northern Coalfield | Southern Coalfield | Western Coalfield | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1925 | 7,637,953 | 2,052,963 | 1,705,283 | 11,396,199 |
| 1926 | 7,257,598 | 2,024,520 | 1,603,648 | 10,885,766 |
| 1927 | 7,145,116 | 2,155,461 | 1,825,537 | 11,126,114 |
| 1928 | 5,978,480 | 1,817,225 | 1,652,492 | 9,448,197 |
| 1929 | 3,019,693 | 2,339,837 | 2,258,206 | 7,617,736 |
| 1930 | 3,715,805 | 1,529,674 | 1,847,576 | 7,093,055 |
| 1931 | 4,161,798 | 981,964 | 1,288,620 | 6,432,382 |
| 1932 | 4,398,253 | 1,112,686 | 1,273,283 | 6,784,222 |
| 1933 | 4,651,483 | 1,218,014 | 1,248,940 | 7,118,437 |
| 1934 | 5,227,647 | 1,344,669 | 1,300,864 | 7,873,180 |
| 1935 | 5,679,802 | 1,558,282 | 1,460,495 | 8,698,579 |
| 1936 | 6,197,554 | 1,626,143 | 1,375,769 | 9,199,466 |
| 1937 | 6,674,362 | 1,880,440 | 1,496,717 | 10,051,519 |
| 1938 | 6,294,213 | 1,831,408 | 1,445,309 | 9,570,930 |
| 1939 | 7,365,981 | 2,160,717 | 1,669,134 | 11,195,832 |
| 1940 | 6,324,504 | 1,784,418 | 1,441,176 | 9,550,098 |
| 1941 | 7,891,123 | 2,242,490 | 1,632,085 | 11,765,698 |
| 1942 | 8,300,356 | 2,303,071 | 1,632,792 | 12,205,935 |
| 1943 | 7,854,173 | 2,175,935 | 1,498,785 | 11,473,499 |
| 1944 | 7,363,484 | 2,040,453 | 1,698,201 | 11,042,939 |
| 1945 | 6,821,646 | 1,791,891 | 1,624,349 | 10,176,254 |
| 1946 | 7,698,854 | 1,765,710 | 1,751,971 | 11,186,383 |
| 1947 | 7,910,696 | 1,917,855 | 1,879,863 | 11,683,123 |
| 1948 | 7,773,526 | 1,889,675 | 1,986,368 | 11,721,446 |
| 1949 | 6,820,192 | 1,908,034 | 2,097,872 | 10,736,098 |
| 1950 | 8,326,437 | 2,403,379 | 2,068,405 | 12,798,221 |
| 1951 | 8,557,664 | 2,508,472 | 2,447,108 | 13,513,244 |
| 1952 | 9,626,481 | 2,775,820 | 2,619,799 | 15,022,100 |
| 1953 | 9,042,414 | 3,008,703 | 2,122,714 | 14,173,831 |
| 1954 | 9,546,317 | 3,366,529 | 2,170,414 | 15,083,260 |
| 1955 | 9,289,762 | 3,594,738 | 1,851,897 | 14,736,397 |
| 1956 | 9,170,716 | 3,981,412 | 1,658,037 | 14,810,165 |
| 1957 | 9,208,422 | 4,555,586 | 1,626,228 | 15,390,236 |
| 1958 | 9,583,595 | 4,693,170 | 1,574,183 | 15,850,948 |
| 1959 | 9,338,280 | 4,811,754 | 1,562,406 | 15,712,440 |
| 1960 | 10,424,171 | 5,735,342 | 1,577,481 | 17,736,994 |
| 1961 | 10,377,510 | 7,057,422 | 1,585,873 | 19,020,805 |
| 1962 | 10,058,457 | 7,454,366 | 1,517,595 | 19,030,418 |
| 1963 | 9,484,444 | 7,816,988 | 1,638,774 | 18,940,206 |
| 1964 | 10,710,417 | 8,394,695 | 1,593,944 | 20,699,056 |
| Total | 499,912,577 | 178,503,827 | 95,309,555 | 788,305,189 |

## COAL (BLACK) PRODUCTION—VICTORIA

| Year | Wonthaggi | Korum-burra | Outtrim | Jumbunna | Kilcunda | Miscel-laneous [a] | Total [b] |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| Total to Dec. 1890 | Details not available | | | | | | 56,082 |
| 1891 | | | | | | | 22,834 |
| 1892 | | | | | | | 23,363 |
| 1893 | | | | | | | 91,726 |
| 1894 | | | | | | | 171,660 |
| 1895 | | | | | | | 194,227 |
| 1896 | — | 56,184 | 126,012 | 34,103 | — | — | 226,562 |
| 1897 | — | 41,903 | 137,247 | 55,456 | — | — | 236,277 |
| 1898 | — | 30,555 | 139,782 | 71,500 | — | — | 242,860 |
| 1899 | — | 56,844 | 122,921 | 73,652 | — | — | 262,380 |
| 1900 | — | 48,985 | 90,756 | 69,648 | — | — | 211,596 |
| 1901 | — | 30,924 | 118,168 | 60,237 | — | — | 209,329 |
| 1902 | — | 40,345 | 114,685 | 67,876 | — | 2,257 | 225,164 |
| 1903 | — | 20,727 | 20,602 | 18,517 | — | 4,354 | 64,200 |
| 1904 | — | 23,036 | 57,327 | 39,364 | — | 2,014 | 121,741 |
| 1905 | — | 32,514 | 71,989 | 49,009 | — | 1,624 | 155,135 |
| 1906 | — | 17,620 | 74,812 | 64,221 | — | 3,978 | 160,631 |
| 1907 | — | 5,232 | 64,033 | 61,755 | — | 7,565 | 138,584 |
| 1908 | — | 310 | 47,633 | 58,552 | — | 6,967 | 113,462 |
| 1909 | 2,946 | 15,127 | 44,156 | 65,945 | — | — | 128,173 |
| 1910 | 201,053 | 56,131 | 46,832 | 61,955 | 144 | 2,944 | 369,059 |
| 1911 | 506,059 | 40,954 | 28,359 | 57,937 | 239 | 20,856 | 653,864 |
| 1912 | 455,659 | 36,335 | 24,326 | 53,306 | 3,409 | 16,108 | 589,143 |
| 1913 | 486,238 | 39,680 | 22,460 | 38,795 | 6,740 | — | 593,912 |
| 1914 | 550,107 | 25,920 | 14,703 | 24,237 | 2,569 | — | 617,536 |
| 1915 | 528,922 | 22,567 | 7,500 | 28,160 | 655 | 300 | 588,104 |
| 1916 | 354,146 | 16,573 | — | 31,792 | — | 14,672 | 417,183 |
| 1917 | 405,498 | 18,337 | — | 22,236 | — | 20,149 | 466,220 |
| 1918 | 389,794 | 21,272 | — | 16,533 | — | 11,975 | 439,575 |
| 1919 | 361,872 | 18,023 | — | 21,716 | — | 22,335 | 423,945 |
| 1920 | 376,285 | 23,002 | — | 19,644 | — | 23,310 | 442,241 |
| 1921 | 451,255 | 26,449 | 3,306 | 13,284 | 310 | 20,255 | 514,859 |
| 1922 | 511,174 | 25,858 | 3,760 | 15,423 | 2,889 | 180 | 559,284 |
| 1923 | 418,394 | 37,486 | 7,691 | 9,246 | 4,006 | — | 476,823 |
| 1924 | 452,032 | 44,733 | 6,581 | 11,124 | 2,951 | 894 | 518,315 |
| 1925 | 468,146 | 43,985 | 5,691 | 15,609 | 75 | 739 | 534,246 |
| 1926 | 531,869 | 30,964 | 6,959 | 10,733 | 10,333 | 148 | 591,001 |
| 1927 | 610,618 | 38,561 | 10,429 | 4,849 | 19,725 | 63 | 684,245 |
| 1928 | 600,931 | 27,898 | 7,758 | 3,981 | 17,728 | 27 | 658,323 |
| 1929 | 634,805 | 32,256 | 8,347 | 822 | 26,329 | 1,269 | 703,828 |
| 1930 | 637,261 | 26,691 | 6,171 | — | 33,077 | 287 | 703,487 |
| 1931 | 532,003 | 22,880 | 2,240 | 1,450 | 12,769 | — | 571,342 |
| 1932 | 359,011 | 40,088 | 6,422 | 2,167 | 24,664 | — | 432,352 |
| 1933 | 443,055 | 45,341 | 7,618 | 297 | 26,689 | — | 523,000 |
| 1934 | 268,861 | 49,818 | 6,169 | 1,056 | 31,054 | — | 356,958 |
| 1935 | 393,532 | 46,953 | 5,243 | 403 | 30,364 | — | 476,495 |
| 1936 | 355,605 | 35,791 | 2,778 | 5,427 | 27,124 | — | 426,725 |

[a] Includes production from the following localities:—Silkstone, Hicksborough, Mirboo-North and Coalville. [b] Not necessarily in agreement with previous columns.

COAL (BLACK) PRODUCTION—VICTORIA—*continued*

| Year | Wonthaggi | Korum-burra | Outtrim | Jumbunna | Kilcunda | Miscel-laneous [a] | Total [b] |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1937 | 187,934 | 30,645 | — | 7,424 | 31,942 | — | 257,945 |
| 1938 | 253,065 | 21,979 | — | 4,533 | 27,681 | — | 307,258 |
| 1939 | 312,452 | 25,607 | — | 607 | 26,229 | — | 364,895 |
| 1940 | 214,249 | 26,482 | — | — | 26,963 | — | 267,694 |
| 1941 | 276,119 | 26,531 | — | — | 23,791 | — | 326,441 |
| 1942 | 270,754 | 21,521 | — | — | 20,579 | — | 312,854 |
| 1943 | 253,359 | 14,370 | — | — | 19,371 | — | 287,100 |
| 1944 | 224,313 | 15,800 | 637 | — | 16,942 | — | 257,692 |
| 1945 | 213,710 | 16,611 | 2,254 | — | 14,722 | — | 247,297 |
| 1946 | 169,650 | 11,077 | 3,070 | — | 7,493 | — | 191,290 |
| 1947 | 153,236 | 8,726 | 3,001 | 1,330 | 7,390 | — | 173,683 |
| 1948 | 145,880 | 7,508 | 3,663 | 1,375 | 9,114 | — | 167,540 |
| 1949 | 108,159 | 5,639 | 2,779 | 1,107 | 4,823 | — | 122,507 |
| 1950 | 109,988 | 7,789 | 1,936 | 286 | 6,432 | — | 126,431 |
| 1951 | 132,396 | 5,865 | 2,305 | 1,460 | 5,717 | — | 147,743 |
| 1952 | 128,006 | 6,147 | — | 3,568 | 6,099 | — | 143,820 |
| 1953 | 136,935 | 5,949 | 736 | 4,342 | 3,945 | — | 151,907 |
| 1954 | 122,257 | 8,344 | 1,070 | 4,215 | 5,432 | — | 141,318 |
| 1955 | 114,366 | 8,126 | 1,850 | 3,771 | 4,775 | — | 132,888 |
| 1956 | 105,971 | 7,234 | 1,357 | 3,819 | 4,229 | — | 118,827 |
| 1957 | 95,523 | 6,775 | 479 | 3,837 | 4,373 | — | 111,569 |
| 1958 | 95,934 | 5,957 | — | 1,103 | 4,654 | — | 108,359 |
| 1959 | 84,347 | — | — | 994 | 4,430 | — | 90,438 |
| 1960 | 71,859 | 102 | — | 714 | 4,297 | — | 76,972 |
| 1961 | 62,915 | — | — | 400 | 3,048 | — | 66,363 |
| 1962 | 49,656 | — | — | 1,254 | — | 3,878 | 56,721 |
| 1963 | 47,562 | — | — | — | — | 3,131 | 50,481 |
| 1964 | 44,382 | — | — | — | — | 3,736 | 47,058 |
| Total | 16,472,108 | 1,609,636 | 1,496,603 | 1,308,156 | 578,314 | 196,015 | 22,242,143 |

[a] Includes production from the following localities:—Silkstone, Hicksborough, Woolamai, Mirboo-North and Coalville. [b] Not necessarily in agreement with previous columns.

COAL (BLACK) PRODUCTION—TASMANIA

| Year | Mt. Nicholas–Fingal–Dalmayne | | | Avoca | Mersey | Others [b] | Total |
|---|---|---|---|---|---|---|---|
| | Cornwall | Mt. Nicholas | Others [a] | | | | |
| | tons | tons | tons | tons | tons | tons | tons |
| Total to 1900 | n.a. | n.a. | — | — | n.a. | n.a. | 769,996 |
| 1900 | 21,799 | 17,962 | — | — | 495 | 10,377 | 50,633 |
| 1901 | [i] 13,116 | [i] 13,530 | — | — | [i] 510 | n.a. | 45,438 |
| 1902 | 20,852 | 21,000 | — | — | 2,498 | 4,513 | 48,863 |
| 1903 | 26,086 | 18,726 | — | — | 1,648 | 2,609 | 49,069 |
| 1904 | 30,460 | 24,420 | — | — | 2,202 | 4,027 | 61,109 |
| 1905 | 20,478 | 24,802 | — | — | 1,994 | 4,719 | 51,993 |
| 1906 | 21,741 | 25,061 | — | — | 1,878 | 4,216 | 52,896 |
| 1907 | 25,604 | 23,070 | — | — | 1,567 | 8,650 | 58,891 |
| 1908 | 37,098 | 18,441 | 23 | — | 911 | 4,595 | 61,068 |
| 1909 | 29,885 | 27,341 | — | — | 1,543 | 7,393 | 66,162 |
| 1910 | 33,446 | 36,645 | 684 | — | 1,720 | 9,950 | 82,445 |
| 1911 | 24,060 | 30,058 | 20 | — | 1,624 | 1,305 | 57,067 |
| 1912 | 22,353 | 28,717 | — | — | 1,066 | 1,424 | 53,560 |
| 1913 | 21,696 | 30,903 | — | — | 1,327 | 1,117 | 55,043 |
| 1914 | 24,466 | 34,177 | 100 | — | 1,074 | 977 | 60,794 |
| 1915 | 25,470 | 37,431 | 418 | — | 458 | 759 | 64,536 |
| 1916 | 22,839 | 30,624 | 284 | — | 1,185 | 643 | 55,575 |
| 1917 | 27,681 | 32,113 | 1,653 | — | 813 | 1,152 | 63,412 |
| 1918 | 26,900 | 29,403 | 158 | — | 1,353 | 2,349 | 60,163 |
| 1919 | 31,456 | 28,053 | — | — | 4,149 | 2,595 | 66,253 |
| 1920 | 38,212 | 29,382 | 1,288 | — | 3,320 | 3,227 | 75,429 |
| 1921 | 36,562 | 24,926 | 1,988 | — | 818 | 2,182 | 66,476 |
| 1922 | 38,702 | 26,554 | 1,651 | — | 888 | 1,443 | 69,238 |
| 1923 | 43,068 | 32,457 | 1,242 | 7 | 867 | 3,077 | 80,718 |
| 1924 | 40,707 | 29,077 | 3,808 | — | 854 | 1,542 | 75,988 |
| 1925 | 38,157 | 28,965 | 12,643 | — | 800 | 1,133 | 81,698 |
| 1926 | 46,344 | 29,535 | 14,403 | — | — | 12,076 | 102,358 |
| 1927 | n.a. | n.a. | n.a. | — | — | — | 112,056 |
| 1928 | 58,447 | 34,106 | 17,780 | — | 4,980 | 13,187 | 128,500 |
| 1929 | 62,753 | 38,002 | 18,382 | 62 | 1,817 | 9,275 | 130,291 |
| 1930 | 69,792 | 29,187 | n.a. | — | — | n.a. | 138,716 |
| 1931 | n.a. | n.a. | n.a. | — | — | — | 123,828 |
| 1932 | 55,726 | 28,192 | 16,542 | 1,700 | — | 9,693 | 111,853 |
| 1933 | 52,276 | 31,065 | 16,617 | 2,200 | — | 14,415 | 116,573 |
| 1934 | 52,414 | 25,878 | 15,002 | 3,143 | — | 17,196 | 113,633 |
| 1935 | 56,817 | 26,631 | 15,749 | 3,649 | 8,213 | 12,655 | 123,714 |
| 1936 | 56,287 | 29,666 | 20,439 | 3,479 | 8,847 | 13,546 | 132,264 |
| 1937 | 28,691 | 22,224 | 16,871 | 4,053 | 6,970 | 12,312 | 91,121 |
| 1938 | 43,381 | — | 14,386 | 5,257 | 6,361 | 19,368 | 83,753 |
| 1939 | 61,031 | — | 17,423 | 7,966 | 3,915 | 9,057 | 99,392 |
| 1940 | 47,020 | 1,171 | 18,497 | 8,731 | 5,293 | 2,424 | 83,136 |
| 1941 | 63,338 | 11,748 | 21,331 | 5,491 | 5,062 | 2,744 | 109,714 |
| 1942 | 77,550 | 16,715 | 27,429 | 3,049 | 3,644 | 6,055 | 134,442 |
| 1943 | 81,700 | 17,450 | 28,458 | 10,911 | 3,290 | 4,073 | 145,882 |
| 1944 | 83,811 | 16,299 | 23,609 | 8,686 | 3,267 | 7,969 | 143,641 |
| 1945 | 83,253 | 21,790 | 18,497 | 10,965 | 2,959 | 11,613 | 149,077 |

[a] Includes production from Jubilee and Cardiff, Fingal and Dalmayne. [b] Includes production from the following coalfields:—Bruny–Catamarau, Sandfly–Cygnet, Langloh, York Plains, Richmond, Seymour, Langford, etc.

COAL (BLACK) PRODUCTION—TASMANIA—*continued*

| Year | Mt. Nicholas–Fingal–Dalmayne | | | Avoca | Mersey | Others [b] | Total |
|---|---|---|---|---|---|---|---|
| | Cornwall | Mt. Nicholas | Others [a] | | | | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1946 | 80,257 | 21,875 | 25,265 | 14,590 | 5,950 | 10,814 | 158,751 |
| 1947 | 83,329 | 25,640 | 26,556 | 19,814 | 2,645 | 9,156 | 167,140 |
| 1948 | 94,219 | 25,079 | 33,568 | 16,181 | 2,031 | 8,315 | 179,393 |
| 1949 | 93,551 | 23,320 | 41,194 | 14,776 | 1,772 | 7,005 | 181,618 |
| 1950 | 100,105 | 34,180 | 56,996 | 18,915 | 2,044 | 10,111 | 222,351 |
| 1951 | 97,468 | 35,013 | 68,973 | 25,277 | 1,018 | 9,139 | 236,888 |
| 1952 | 106,002 | 31,170 | 72,986 | 28,681 | 875 | 8,185 | 247,899 |
| 1953 | 86,759 | 35,739 | 79,003 | 16,002 | 930 | 15,196 | 233,629 |
| 1954 | 94,745 | 40,351 | 79,736 | 36,758 | 917 | 11,695 | 264,202 |
| 1955 | 102,151 | 40,750 | 88,755 | 47,391 | 610 | 19,564 | 299,221 |
| 1956 | 92,937 | 37,262 | 103,659 | 45,317 | 587 | 18,951 | 298,713 |
| 1957 | 100,676 | 6,908 | 107,210 | 43,232 | 736 | 9,378 | 268,140 |
| 1958 | 108,640 | 5,057 | 106,851 | 45,197 | 647 | 9,876 | 276,268 |
| 1959 | 117,905 | — | 114,917 | 54,106 | 424 | 12,016 | 299,368 |
| 1960 | 128,529 | — | 97,774 | 56,018 | 552 | 14,797 | 297,670 |
| 1961 | 91,046 | — | 111,272 | 42,312 | — | 11,198 | 255,828 |
| 1962 | 105,268 | — | 108,959 | 50,049 | — | 8,066 | 272,342 |
| 1963 | 72,506 | — | 105,833 | 21,149 | — | 7,794 | 207,282 |
| 1964 | — | — | 121,855 | 22,352 | — | 6,954 | 151,161 |
| Total | [i]3,579,618 | [i]1,445,841 | [i]1,898,737 | 697,466 | 123,918 | [i]471,842 | 9,276,321 |

[a] Includes production from Jubilee and Cardiff, Fingal and Dalmayne. [b] Includes production from the following coalfields:—Bruny–Catamarau, Sandfly–Cygnet, Langloh, York Plains, Richmond, Seymour, Langford, etc.

# BROWN COAL

Coal (brown) Production—Victoria .. .. .. .. .. 106–107

## COAL (BROWN) PRODUCTION—VICTORIA

| Year | Latrobe Valley | | | Bacchus Marsh | Anglesea | Miscellaneous[a] | Total[b c] |
|---|---|---|---|---|---|---|---|
| | Yallourn North | Yallourn | Morwell | | | | |
| | tons | tons | tons | tons | tons | tons | tons |
| Prior to 1889 | 8,772 | — | — | — | — | — | 8,772 |
| 1889 | 556 | — | — | — | — | — | 556 |
| 1890 | 9,857 | — | — | — | — | — | 9,857 |
| 1891 | 6,322 | — | — | — | — | — | 6,322 |
| 1892 | 6,600 | — | — | — | — | — | 6,600 |
| 1893 | 4,500 | — | — | — | — | — | 4,500 |
| 1894 | 3,514 | — | — | — | — | — | 3,514 |
| 1895 | 1,956 | — | — | — | — | — | 1,956 |
| 1896 | 4,675 | — | — | — | — | 1,240 | 5,815 |
| 1897 | 4,717 | — | — | — | — | — | 4,717 |
| 1898 | 2,869 | — | — | — | — | — | 2,869 |
| 1899 | — | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | — | — |
| 1901 | — | — | — | — | — | 150 | 150 |
| 1902 | — | — | — | — | — | — | — |
| 1903 | — | — | — | — | — | 5,661 | 5,661 |
| 1904 | — | — | — | — | — | — | — |
| 1905 | 50 | — | — | — | — | — | 50 |
| 1906 | — | — | — | — | — | — | — |
| 1907 | 50 | — | — | — | — | — | 50 |
| 1908 | 500 | — | — | — | — | — | 500 |
| 1909 | 500 | — | — | — | — | — | 500 |
| 1910 | n.a. | — | 50 | — | — | 600 | 650 |
| 1911 | — | — | 220 | — | — | 5,914 | 6,134 |
| 1912 | 70 | — | — | — | — | 3,942 | 4,012 |
| 1913 | — | — | — | — | — | 2,984 | 2,984 |
| 1914 | — | — | — | — | — | 2,715 | 2,715 |
| 1915 | — | — | — | — | — | 2,864 | 2,864 |
| 1916 | 130 | — | — | — | — | 2,915 | 2,915 |
| 1917 | 34,798 | — | — | — | — | 138 | 39,144 |
| 1918 | 62,517 | — | — | — | — | 3,843 | 66,200 |
| 1919 | 110,183 | — | — | — | — | 1,442 | 111,628 |
| 1920 | 162,682 | — | — | — | — | — | 162,682 |
| 1921 | 74,458 | — | — | — | — | 4,766 | 79,224 |
| 1922 | 89,887 | — | — | — | — | 515 | 90,402 |
| 1923 | 115,045 | — | — | — | — | 1,843 | 116,888 |
| 1924 | 126,028 | — | — | — | — | 1,462 | 127,490 |
| 1925 | 168,201 | 701,761 | — | — | — | 6,506 | 876,468 |
| 1926 | 219,526 | 734,004 | — | — | — | 4,405 | 957,935 |
| 1927 | 356,210 | 1,097,444 | — | — | — | 1,828 | 1,455,482 |
| 1928 | 165,551 | 1,426,307 | — | — | — | — | 1,591,858 |
| 1929 | 42,133 | 1,698,813 | — | — | — | 230 | 1,741,176 |
| 1930 | — | 1,831,507 | — | — | — | — | 1,831,507 |
| 1931 | — | 2,186,684 | — | — | — | 7,769 | 2,194,453 |
| 1932 | — | 2,612,370 | — | — | — | 142 | 2,612,512 |

[a] Includes production from the following localities:—Wensleydale, Gelliondale, Parwan, Lal-Lal, Altona, Dean's Marsh, Yan Yan Gurt, Thorpdale, Bambra and Allambee. [b] Not necessarily in agreement with the previous columns. [c] Total Victorian production equals Australian production.

COAL (BROWN) PRODUCTION—VICTORIA—*continued*

| Year | Latrobe Valley | | | Bacchus Marsh | Angelsea | Miscellaneous[a] | Total[b c] |
|---|---|---|---|---|---|---|---|
| | Yallourn North | Yallourn | Morwell | | | | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1933 | — | 2,580,060 | — | — | — | — | 2,580,060 |
| 1934 | — | 2,617,034 | — | — | — | 500 | 2,617,534 |
| 1935 | — | 2,220,515 | — | — | — | 1,000 | 2,221,515 |
| 1936 | — | 3,042,897 | — | — | — | 2,000 | 3,044,897 |
| 1937 | — | 3,391,419 | — | — | — | 2,500 | 3,393,919 |
| 1938 | — | 3,674,450 | — | — | — | 1,000 | 3,675,450 |
| 1939 | — | 3,650,164 | — | — | — | 850 | 3,651,014 |
| 1940 | — | 4,278,475 | — | — | — | — | 4,278,475 |
| 1941 | — | 4,565,138 | — | — | — | 500 | 4,565,638 |
| 1942 | 40,086 | 4,889,462 | — | — | — | 4,313 | 4,933,861 |
| 1943 | 42,701 | 5,038,325 | — | — | — | 10,703 | 5,091,729 |
| 1944 | 87,982 | 4,913,207 | — | 1,897 | — | 13,351 | 5,016,437 |
| 1945 | 48,224 | 5,366,245 | — | 7,026 | — | 23,613 | 5,445,108 |
| 1946 | 90,324 | 5,547,228 | — | 32,068 | — | 37,419 | 5,707,039 |
| 1947 | 153,438 | 5,790,655 | — | 152,836 | — | 43,211 | 6,140,140 |
| 1948 | 332,911 | 6,091,016 | — | 211,713 | — | 56,651 | 6,692,291 |
| 1949 | 410,706 | 6,554,772 | — | 282,696 | — | 127,385 | 7,375,559 |
| 1950 | 623,070 | 6,210,923 | — | 343,211 | — | 149,915 | 7,327,119 |
| 1951 | 926,883 | 6,313,647 | — | 395,430 | — | 200,096 | 7,836,056 |
| 1952 | 1,087,623 | 6,447,692 | — | 273,809 | — | 294,640 | 8,103,764 |
| 1953 | 1,242,418 | 6,474,900 | — | 390,203 | — | 149,778 | 8,257,299 |
| 1954 | 1,311,759 | 7,081,504 | — | 587,951 | — | 350,041 | 9,331,255 |
| 1955 | 1,504,888 | 7,721,446 | 10,664 | 491,732 | — | 383,476 | 10,112,206 |
| 1956 | 1,548,332 | 8,105,455 | 7,455 | 509,365 | — | 389,194 | 10,559,801 |
| 1957 | 1,627,657 | 7,738,526 | 465,934 | 517,668 | — | 391,204 | 10,740,989 |
| 1958 | 1,596,157 | 8,982,814 | 231,504 | 541,905 | — | 291,249 | 11,643,629 |
| 1959 | 1,364,527 | 9,970,151 | 828,974 | 555,317 | 169,049 | 146,587 | 13,034,605 |
| 1960 | 1,061,194 | 13,326,682 | | 483,205 | 93,637 | 2,484 | 14,967,202 |
| 1961 | 716,088 | 15,091,202 | | 413,291 | 57,747 | 840 | 16,279,168 |
| 1962 | 392,004 | 16,237,804 | | 459,082 | 48,208 | 340 | 17,137,438 |
| 1963 | 633,843 | 17,302,601 | | 471,614 | 48,442 | 142 | 18,456,642 |
| 1964 | 499,201 | 18,010,245 | | 477,920 | 45,984 | 80 | 19,033,430 |
| Total | 19,124,864 | 243,060,345 | | 7,599,939 | 783,500 | 3,138,806 | 273,480,981 |

[a] Includes production from the following localities:—Wensleydale, Gelliondale, Parwan, Lal-Lal, Altona, Dean's Marsh, Yan Yan Gurt, Thorpdale, Bambra and Allambee. [b] Not necessarily in agreement with the previous columns. [c] Total Victorian production equals Australian production.

Page 108 is blank.

# COBALT

Cobalt Production—Australia .. .. .. .. .. .. .. 101

Cobalt Oxide Production—Australia .. .. .. .. .. .. 111

Cobalt Imports—Australia .. .. .. .. .. .. .. .. 112

Cobalt Production—Queensland .. .. .. .. .. .. .. 113

Cobalt Production—New South Wales .. .. .. .. .. .. 114

## COBALT PRODUCTION—AUSTRALIA

(Estimated cobalt metal content)

| Year | Queensland | New South Wales | Tasmania | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1891 | — | 1·15 | — | 1·15 |
| 1892 | — | 7·60 | — | 7·60 |
| 1893 | — | 2·60 | — | 2·60 |
| 1894 | — | 0·25 | — | 0·25 |
| 1895 | — | 0·55 | — | 0·55 |
| 1896 | — | — | — | — |
| 1897 | — | — | — | — |
| 1898 | — | 5·80 | — | 5·80 |
| 1899 | — | 9·50 | — | 9·50 |
| 1900 | — | 7·20 | — | 7·20 |
| 1901 | — | 5·50 | — | 5·50 |
| 1902 | — | 1·70 | — | [a]1·90 |
| 1903 | — | 7·60 | — | 7·60 |
| 1904 | — | 0·30 | — | 0·30 |
| 1905–8 | — | — | — | — |
| 1909 | — | 0·30 | — | 0·30 |
| 1910 | — | 0·30 | — | 0·30 |
| 1911–20 | — | — | — | — |
| 1921 | 85·00 | — | — | 85·00 |
| 1922 | 101·50 | — | — | 101·50 |
| 1923 | 217·50 | — | — | 217·50 |
| 1924 | 197·31 | — | — | 197·31 |
| 1925 | 90·00 | — | — | 90·00 |
| 1926 | 28·15 | — | — | 28·15 |
| 1927 | — | — | — | — |
| 1928 | 7·81 | — | — | 7·81 |
| 1929 | 19·99 | — | — | 19·99 |
| 1930 | 4·30 | — | — | 4·30 |
| 1931 | 1·11 | — | — | 1·11 |
| 1932 | 3·13 | — | — | 3·13 |
| 1933 | 10·39 | — | — | 10·39 |
| 1934 | 8·10 | — | — | 8·10 |
| 1935–49 | — | — | — | — |
| 1950 | — | 42·50 | 0·10 | 42·60 |
| 1951 | — | 42·20 | 0·10 | 42·30 |
| 1952 | — | 53·90 | 0·30 | 54·20 |
| 1953 | — | 52·70 | 0·10 | 52·80 |
| 1954 | — | 68·50 | 0·20 | 68·70 |
| 1955 | — | 60·70 | 0·40 | 61·10 |
| 1956 | — | 59·20 | 0·40 | 59·60 |
| 1957 | — | 68·10 | 0·20 | 68·30 |
| 1958 | — | 70·40 | 0·40 | 70·80 |
| 1959 | — | 60·10 | 0·60 | 60·70 |
| 1960 | — | 64·70 | 0·40 | 65·10 |
| 1961 | — | 64·90 | 0·40 | 65·30 |
| 1962 | — | 76·50 | 1·10 | 77·60 |
| 1963 | — | 85·70 | 1·10 | 86·80 |
| 1964 | — | 73·30 | 1·10 | 74·40 |
| Total | 774·29 | 993·75 | 6·90 | 1,775·14 |

[a] Including 0·2 tons from Western Australia.

COBALT OXIDE PRODUCTION[a]—AUSTRALIA

| Year | New South Wales | | Tasmania | | Total | |
|---|---|---|---|---|---|---|
| | From Broken Hill Zinc Concentrates | | From Read-Rosebery Zinc Concentrates | | | |
| | Cobalt Oxide | Cobalt Content | Cobalt Oxide | Cobalt Content | Cobalt Oxide | Cobalt Content |
| | tons | tons | tons | tons | tons | tons |
| 1937 | 14·0 | 9·2 | — | — | 14·0 | 9·2 |
| 1938 | 19·0 | 12·5 | 0·6 | 0·4 | 19·6 | 12·9 |
| 1939 | 19·5 | 12·9 | — | — | 19·5 | 12·9 |
| 1940 | 17·8 | 11·7 | — | — | 17·8 | 11·7 |
| 1941 | 19·9 | 13·1 | — | — | 19·9 | 13·1 |
| 1942 | 16·3 | 10·7 | — | — | 16·3 | 10·7 |
| 1943 | 13·7 | 9·0 | 0·7 | 0·4 | 14·4 | 9·4 |
| 1944 | 12·9 | 8·4 | 0·4 | 0·2 | 13·3 | 8·6 |
| 1945 | 13·7 | 9·0 | 0·3 | 0·2 | 14·0 | 9·2 |
| 1946 | 15·3 | 9·7 | 0·2 | 0·1 | 15·5 | 9·8 |
| 1947 | 11·9 | 7·9 | 0·2 | 0·1 | 12·1 | 8·0 |
| 1948 | 15·0 | 9·8 | 0·2 | 0·1 | 15·2 | 9·9 |
| 1949 | 13·9 | 8·8 | 0·3 | 0·2 | 14·2 | 9·0 |
| 1950 | 15·8 | 9·4 | 0·2 | 0·1 | 16·0 | 9·5 |
| 1951 | 12·8 | 8·2 | 0·2 | 0·1 | 13·0 | 8·3 |
| 1952 | 15·9 | 10·4 | 0·4 | 0·3 | 16·3 | 10·7 |
| 1953 | 16·4 | 10·4 | 0·2 | 0·1 | 16·7 | 10·5 |
| 1954 | 17·7 | 11·2 | 0·4 | 0·2 | 18·1 | 11·4 |
| 1955 | 17·8 | 11·2 | 0·6 | 0·4 | 18·4 | 11·6 |
| 1956 | 18·6 | 11·8 | 0·6 | 0·4 | 19·2 | 12·2 |
| 1957 | 19·5 | 12·1 | 0·3 | 0·2 | 19·8 | 12·3 |
| 1958 | 23·7 | 15·0 | 0·7 | 0·4 | 24·3 | 15·4 |
| 1959 | 21·7 | 13·7 | 1·0 | 0·6 | 22·7 | 14·3 |
| 1960 | 21·8 | 13·7 | 0·7 | 0·4 | 22·5 | 14·1 |
| 1961 | 24·5 | 16·8 | 0·6 | 0·4 | 25·1 | 17·2 |
| 1962 | 20·2 | 14·2 | 1·5 | 1·1 | 21·7 | 15·3 |
| 1963 | 22·4 | 15·9 | 1·6 | 1·1 | 24·0 | 17·0 |
| 1964 | 22·5 | 15·9 | 1·5 | 1·1 | 24·0 | 17·0 |

[a] Produced at Risdon, Tasmania, by Electrolytic Zinc Co. of Australasia Ltd.

COBALT—IMPORTS—AUSTRALIA

| Year | Cobalt Metal[a] | | Cobalt Oxide[b] | | Cobalt Compounds, n.e.i. | |
|---|---|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1954 | 24 | 63,117 | 42 | 38,051 | 26 | 19,797 |
| 1955 | 25 | 43,407 | 14 | 22,016 | 50 | 50,425 |
| 1956 | 37 | 90,180 | 17 | 24,563 | 35 | 29,769 |
| 1957 | 42 | 93,766 | 29 | 42,368 | 27 | 20,092 |
| 1958 | 42 | 85,553 | 22 | 38,049 | 46 | 30,976 |
| 1959 | 66 | 116,429 | 6 | 8,740 | 85 | 51,108 |
| 1960 | 90 | 140,119 | 13 | 13,273 | 43 | — |
| 1961 | 19 | 45,773 | 18 | 19,278 | [c] | — |
| 1962 | 56 | 92,938 | 11 | 11,345 | — | — |
| 1963 | 71 | 121,114 | 12 | 15,058 | — | — |
| 1964 | 69 | 103,244 | 26 | 27,321 | — | — |

[a] Not recorded separatly prior to 1st July, 1953; includes ingots, blocks, powder, etc. [b] Not recorded separately prior to 1st July, 1953. [c] Not recorded separately from 1st July, 1961.

COBALT PRODUCTION—QUEENSLAND
(Expressed as metal)

| Year | Cloncurry District | | | Total |
|---|---|---|---|---|
| | Mount Cobalt | Success Mine | Queen Sally | |
| | tons | tons | tons | tons |
| 1921 | 85·00 | — | — | 85·00 |
| 1922 | 101·50 | — | — | 101·50 |
| 1923 | 217·50 | — | — | 217·50 |
| 1924 | 197·25 | — | — | 197·25 |
| 1925 | 90·00 | — | — | 90·00 |
| 1926 | 27·00 | — | [a]1·15 | 28·15 |
| 1927 | — | — | — | — |
| 1928 | 7·81 | — | — | 7·81 |
| 1929 | 17·35 | 2·64 | — | 19·99 |
| 1930 | 1·09 | 0·83<br>[a]0·89 | 1·49 | 4·30 |
| 1931 | — | [a]1·11 | — | 1·11 |
| 1932 | 3·13 | — | — | 3·13 |
| 1933 | 6·26<br>[a]4·13 | — | — | 10·39 |
| 1934 | 8·10 | — | — | 8·10 |
| 1935–64 | — | — | — | — |
| Total | 766·18 | 5·47 | 2·64 | 774·29 |

[a] Not recorded in Annual Report of Department for Mines. Figures taken from Rayner, E. O., "The Cobalt Deposits of the Cloncurry District". Ore containing 0·16 tons cobalt despatched from Mount Cobalt (Kilkivan District) in 1903 as a trial parcel.

COBALT PRODUCTION—NEW SOUTH WALES
(Figures for 1891–1910 based on exports)

| Year | Carcoar | | Port Macquarie | | Broken Hill[f] | Total | |
|---|---|---|---|---|---|---|---|
| | Ore | Estimated Cobalt Content[a] | Ore | Estimated Cobalt Content[b] | Cobalt | Ore | Estimated Cobalt Content |
| | tons | tons | tons | tons | tons | tons | tons |
| 1891 | [c]1·15 | 1·15 | — | — | — | [c]1·15 | 1·15 |
| 1892 | 76·00 | 7·60 | — | — | — | 76·00 | 7·60 |
| 1893 | 26·00 | 2·60 | 5·00 | — | — | 26·00 | 2·60 |
| 1894 | 2·50 | 0·25 | — | — | — | 2·50 | 0·25 |
| 1895 | 5·50 | 0·55 | — | — | — | 5·50 | 0·55 |
| 1896–7 | — | — | — | — | — | — | — |
| 1898 | — | — | 116·85 | 5·80 | — | 116·25 | 5·80 |
| 1899 | — | — | 189·95 | 9·50 | — | 189·95 | 9·50 |
| 1900 | — | — | 143·25 | 7·20 | — | 143·25 | 7·20 |
| 1901 | — | — | 110·60 | 5·50 | — | 110·60 | 5·50 |
| 1902 | — | — | 34·30 | 1·70 | — | 34·30 | 1·70 |
| 1903 | — | — | 153·00 | 7·60 | — | 153·00 | 7·60 |
| 1904 | — | — | 5·45 | 0·30 | — | 5·45 | 0·30 |
| 1905–8 | — | — | — | — | — | — | — |
| 1909 | — | — | — | — | — | [d]11·00 | 0·30 |
| 1910 | — | — | — | — | — | [d]9·30 | 0·30 |
| 1911–49 | — | — | — | — | — | — | — |
| 1950 | — | — | — | — | 42·50 | — | 42·50 |
| 1951 | — | — | — | — | 42·20 | — | 42·20 |
| 1952 | — | — | — | — | 53·90 | — | 53·90 |
| 1953 | — | — | — | — | 52·70 | — | 52·70 |
| 1954 | — | — | — | — | 68·50 | — | 68·50 |
| 1955 | — | — | — | — | 60·70 | — | 60·70 |
| 1956 | — | — | — | — | 59·20 | — | 59·20 |
| 1957 | — | — | — | — | 68·10 | — | 68·10 |
| 1958 | — | — | — | — | 70·40 | — | 70·40 |
| 1959 | — | — | — | — | 60·10 | — | 60·10 |
| 1960 | — | — | — | — | 64·70 | — | 64·70 |
| 1961 | — | — | — | — | 64·90 | — | 64·90 |
| 1962 | — | — | — | — | 76·50 | — | 76·50 |
| 1963 | — | — | — | — | 85·70 | — | 85·70 |
| 1964 | — | — | — | — | 73·30 | — | 37·30 |
| Total | 111·15 | 12·15 | 753·40 | 37·60 | 943·40 | — | 993·75 |

[a] Assay of Carcoar ore, 10 per cent. (Andrews, 1889). [b] Port Macquarie picked ore 7 per cent. cobalt oxide (Raggatt, 1928). [c] Figure as given in Mines Department reports; possibly represents cobalt. [d] Locality not recorded; production probably from Bungonia which is stated to have produced cobalt ore in 1910. [f] Cobalt contained in zinc concentrates produced; prior to 1950 not recorded.

# CONSTRUCTION MATERIALS

Statistics for stone, sand and gravel used for construction purposes were collected on a substantially uniform basis for the first time in 1952 by State Mines Departments and by the Mines Branch of the Northern Territory Administration.


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Gravel Production—Australia .. .. .. .. .. .. .. 116

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Crushed and Broken Stone Production—Australia .. .. .. .. 117

Other Stone (Decomposed rock, etc.) Production—Australia .. .. .. 118

# CONSTRUCTION MATERIALS

## SAND PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory | Total[i] |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1953 | n.a. | 1,145,832 | [a]651,711 | n.a. | 684,052 | [a]13,368 | n.a. | 2,494,963 |
| 1954 | n.a. | 1,444,173 | 992,627 | n.a. | 1,145,746 | [a]29,808 | n.a. | 3,612,354 |
| 1955 | n.a. | 1,361,687 | 1,041,284 | n.a. | 1,318,774 | 10,500 | n.a. | 3,732,245 |
| 1956 | n.a. | 1,680,849 | 1,232,862 | n.a. | 1,223,391 | 176,436 | n.a. | 4,313,538 |
| 1957 | n.a. | 1,776,236 | 1,046,987 | n.a. | 1,302,194 | n.a. | 300 | 4,125,717 |
| 1958 | n.a. | 1,790,150 | 1,146,002 | n.a. | 1,175,880 | n.a. | 5,771 | 4,117,803 |
| 1959 | n.a. | 2,144,938 | 1,158,209 | 8,599 | 1,306,663 | n.a. | 4,299 | 4,622,708 |
| 1960 | n.a. | 2,974,792 | 1,113,726 | 20,894 | 1,813,828 | n.a. | 11,144 | 5,934,384 |
| 1961 | n.a. | 2,937,091 | 2,527,787 | 34,270 | 1,862,979 | n.a. | 65,278 | 7,427,405 |
| 1962 | n.a. | 2,957,097 | 2,797,228 | 97,906 | 1,516,152 | n.a. | n.a.p. | 7,535,202 |
| 1963 | n.a. | 3,670,468 | 3,000,054 | 110,822 | 1,994,283 | n.a. | n.a.p. | 9,050,343 |

[a] Year ended 30th June.

## GRAVEL PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory | Total[i] |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1953 | n.a. | 1,135,264 | [a]139,787 | n.a. | 334,524 | [a]174,262 | — | 1,783,837 |
| 1954 | n.a. | 1,288,332 | 121,445 | n.a. | 675,914 | [a]224,508 | — | 2,310,199 |
| 1955 | n.a. | 1,513,740 | 229,209 | n.a. | n.a. | n.a. | — | 1,742,949 |
| 1956 | n.a. | 1,895,200 | 221,275 | n.a. | n.a. | n.a. | — | 2,116,475 |
| 1957 | n.a. | 1,624,339 | 135,117 | n.a. | n.a. | n.a. | — | 1,764,166 |
| 1958 | n.a. | 1,580,187 | 111,969 | n.a. | 557,772 | n.a. | 14,727 | 2,264,652 |
| 1959 | n.a. | 1,408,280 | 142,515 | 381,507 | 559,430 | n.a. | 32,450 | 2,524,182 |
| 1960 | n.a. | 1,770,063 | 155,909 | 342,483 | 655,389 | n.a. | 7,836 | 2,931,680 |
| 1961 | n.a. | 1,449,680 | 3,040,120 | 611,922 | 910,971 | n.a. | 5,246 | 6,017,939 |
| 1962 | n.a. | 1,491,879 | 2,943,035 | 645,962 | 747,016 | n.a. | n.a.p. | 5,911,710 |
| 1963 | n.a. | 1,853,105 | 3,684,209 | 914,171 | 1,049,630 | n.a. | n.a.p. | 7,624,847 |

[a] Year ended 30th June.

## DIMENSION STONE PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1953 | 7,528 | 37,082 | 6,671 | n.a. | 54,297 | 94,661 | *i* | [i]200,239 |
| 1954 | 5,536 | 95,039 | 19,116 | n.a. | 53,211 | [a]118,336 | *i* | [i]291,238 |
| 1955 | 4,239 | 111,044 | 11,417 | 37 | 58,914 | [a]88,369 | *i* | 274,020 |
| 1956 | 3,968 | 88,712 | 9,393 | 47 | 49,211 | 80,076 | *i* | 231,407 |
| 1957 | 5.743 | 114,797 | 12,109 | 39 | 41,898 | 55,331 | *i* | 229,917 |
| 1958 | 5,605 | 146,857 | 4,753 | 102 | 38,513 | 76,159 | *i* | 271,989 |
| 1959 | 5,730 | 157,220 | 4,387 | 282 | 43,592 | 71,648 | 300 | 283,159 |
| 1960 | 4,713 | 157,401 | 4,058 | 128 | 38,779 | 112,110 | 800 | 317,989 |
| 1961 | 2,324 | 353,911 | 6,877 | 278 | 39,703 | 129,735 | 100 | 532,928 |
| 1962 | 2,504 | 197,391 | 9,181 | 1,208 | 36,793 | 127,886 | n.a.p. | 378,673 |
| 1963 | 2,023 | 371,154 | 10,147 | 2,177 | 25,011 | 210,689 | n.a.p. | 629,221 |

[a] Year ended 30th June.

## CRUSHED AND BROKEN STONE PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1953 | 518,731 | 1,613,309 | 2,579,342 | n.a. | 2,579,781 | 436,385 | *i* | [i]7,727,548 |
| 1954 | 648,261 | 1,739,510 | 3,568,927 | n.a. | 3,114,142 | 511,877 | *i* | [i]9,582,717 |
| 1955 | 798,391 | 2,265,472 | 3,934,682 | 135,082 | 5,458,579 | [a]775,022 | *i* | 13,367,228 |
| 1956 | 914,446 | 1,995,004 | 4,824,165 | 227,224 | 6,058,603 | 797,407 | *i* | 14,816,849 |
| 1957 | 1,541,852 | 1,980,619 | 5,070,472 | 491,367 | 5,867,150 | 635,345 | *i* | 15,601,023 |
| 1958 | 2,036,579 | 2,106,716 | 5,546,068 | 434,542 | 4,573,521 | 598,579 | 108,241 | 15,404,246 |
| 1959 | 2,358,301 | 2,440,891 | 6,565,696 | 431,648 | 6,986,348 | 928,007 | 145,144 | 19,856,035 |
| 1960 | 2,180,857 | 3,097,422 | 8,059,236 | 512,161 | 7,859,466 | 908,178 | [b]225,168 | 22,842,488 |
| 1961 | 1,869,992 | 3,793,954 | 11,296,907 | 571,147 | 8,608,918 | 949,161 | 212,805 | 27,302,884 |
| 1962 | 2,362,712 | 3,947,545 | 11,204,563 | 616,734 | 8,302,451 | 1,320,080 | n.a.p. | 27,943,756 |
| 1963 | 2,533,172 | 3,808,867 | 12,384,104 | 922,532 | 8,361,355 | 1,537,271 | n.a.p. | 29,768,320 |

[a] Year ended 30th June. [b] Includes A.C.T. production, n.a.p.

## OTHER STONE (DECOMPOSED ROCK, ETC.) PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory | Total[i] |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1953 | n.a. | 8,503,397 | [a]28,376 | n.a. | 277,195 | [a]6,451 | n.a. | 8,815,419 |
| 1954 | n.a. | 10,013,317 | 374,551 | n.a. | 77,593 | [a]14,210 | n.a. | 10,479,671 |
| 1955 | n.a. | 10,214,929 | 536,241 | n.a. | n.a. | 6,804 | n.a. | 10,757,974 |
| 1956 | n.a. | 10,834,845 | 272,724 | n.a. | n.a. | 5,324 | n.a. | 11,112,893 |
| 1957 | n.a. | 11,895,873 | 644,843 | n.a. | n.a. | 5,155 | n.a. | 12,545,871 |
| 1958 | n.a. | 12,172,687 | 549,656 | n.a. | n.a. | n.a. | n.a. | 12,722,343 |
| 1959 | n.a. | 13,034,079 | 651,596 | 10,812 | n.a. | n.a. | 3,000 | 13,699,487 |
| 1960 | n.a. | 15,055,115 | n.a.p. | 80 | n.a. | n.a. | — | 15,055,195 |
| 1961 | n.a. | 14,798,194 | 1,658,462 | 25,277 | n.a. | n.a. | n.a. | 16,481,933 |
| 1962 | n.a. | 15,491,250 | 1,712,480 | 105,904 | n.a. | n.a. | n.a. | 17,309,634 |
| 1963 | n.a. | 18,232,424 | 2,497,349 | 19,979 | n.a. | n.a. | n.a. | 20,829,770 |

[a] Year ended 30th June.

# COPPER

In compiling statistics for copper production by principal mines, mining fields or districts of the States and the Northern Territory the objective was to place these on a uniform basis. In many instances these data are at variance with those reported in the *Annual Reports* of State Mines Departments and the Mines Branch of the Northern Territory Administration.

For example, in the *Annual Reports* of the Department of Mines, New South Wales, before 1952 production of copper ingots, matte, and regulus was recorded as one combined tonnage. Total copper production was given by value only, including the value of the gold and silver content.

In the *Annual Reports* of the Director of Mines for Tasmania before 1919 the recorded tonnage of copper ore production differs widely from those recorded for blister copper production.

Because of different sources of information, in some instances totals of copper production by districts are not in agreement with official State totals.

The source of information on blister copper and refined copper production for the period 1910–1947 was the relevant statistics compiled by the Australian Mines and Metals Association.


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## COPPER (PRIMARY REFINED) PRODUCTION[a]—AUSTRALIA

| Year | Queensland[b] | New South Wales[c] | Tasmania[d] | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1910[f] | — | — | — | 15,508 |
| 1911 | — | — | — | 19,715 |
| 1912 | — | — | — | 23,962 |
| 1913 | — | — | — | 21,963 |
| 1914 | — | — | — | 24,905 |
| 1915 | — | — | — | 28,446 |
| 1916 | — | — | — | 34,828 |
| 1917 | — | — | — | 35,989 |
| 1918 | — | — | — | 44,018 |
| 1919 | — | — | — | 16,182 |
| 1920 | — | — | — | 24,069 |
| 1921 | — | — | — | 18,600 |
| 1922 | — | — | — | 11,524 |
| 1923 | — | — | — | 17,825 |
| 1924 | — | — | — | 14,100 |
| 1925 | — | — | — | 10,984 |
| 1926 | — | — | — | 11,148 |
| 1927 | — | — | — | 9,564 |
| 1928 | — | — | — | 11,858 |
| 1929 | — | — | — | 10,874 |
| 1930 | — | — | — | 14,900 |
| 1931 | — | — | — | 12,936 |
| 1932 | — | — | — | 13,307 |
| 1933 | — | — | — | 11,238 |
| 1934 | — | — | — | 7,970 |
| 1935 | — | — | — | 11,168 |
| 1936 | — | — | — | 13,313 |
| 1937 | — | — | — | 17,400 |
| 1938 | — | — | — | 17,09 |
| 1939 | — | — | — | 17,86 |
| 1940 | — | — | — | 18,14 |
| 1941 | — | — | — | 21,66 |
| 1942 | — | — | — | 24,60 |
| 1943 | — | — | — | 20,45 |
| 1944 | — | — | — | 19,89 |
| 1945 | — | — | — | 20,49 |
| 1946 | — | — | — | 22,65 |
| 1947 | — | — | — | 19,50 |
| 1948 | — | 4,484 | 6,167 | 10,65 |
| 1949 | — | 5,518 | 4,437 | 9,95 |
| 1950 | — | 5,919 | 7,312 | 13,23 |
| 1951 | — | 6,381 | 7,162 | 13,54 |
| 1952 | — | 10,627 | 8,996 | 19,62 |
| 1953 | — | 8,353 | 8,329 | 16,68 |
| 1954 | — | 20,522 | 8,765 | 29,28 |
| 1955 | — | 20,522 | 7,626 | 28,14 |
| 1956 | — | 21,707 | 7,600 | 29,30 |
| 1957 | — | 23,709 | 9,171 | 32,88 |
| 1958 | — | 32,838 | 10,438 | 43,27 |
| 1959 | 8,514 | 32,500 | 10,278 | 51,59 |
| 1960 | 38,435 | 21,270 | 10,947 | 70,65 |
| 1961 | 40,604 | 12,669 | 10,450 | 63,72 |
| 1962 | 56,753 | 10,980 | 11,717 | 79,45 |
| 1963 | 63,788 | 10,464 | 11,863 | 86,11 |
| 1964 | 60,535 | 10,290 | 11,423 | 82,24 |

[a] Production figures for each refinery are not available prior to 1948. Total production for years 1910 to 1917 includes pr duction by Electrolytic Refining and Smelting Co. of Australia at Port Kembla, and productions by Great Cobar Ltd. at Cob and English and Australian Copper Company at Waratah. It is considered that total production for years 1917 to 1927 was th of E.R. & S. [b] Production by Copper Refineries Pty. Ltd., a subsidiary of Mt. Isa Mines Ltd., at Townsville. [c] Mount Morg controlled E.R. & S. until 1928 when controlling interest was acquired by the present company. [d] Production by Mt. Ly Mining and Railway Co. Ltd. commenced at Mt. Lyell in 1928. [f] Figures not available for years prior to 1910.

## COPPER PRODUCTION—AUSTRALIA
(Copper content of ores, concentrates, etc.)

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| Total to end of 1898 | 60,341 | 98,701 | e795 | 10,167 | 297,553 | 2,846 | 882 | 471,285 |
| 1899 | 161 | 6,588 | — | 8,785 | 5,900 | 542 | — | 21,976 |
| 1900 | 384 | 6,153 | — | 10,152 | 5,330 | 640 | 109 | 22,768 |
| 1901 | 3,061 | 6,398 | — | 11,513 | 7,340 | 1,010 | 120 | 29,442 |
| 1902 | 3,784 | 6,831 | — | 9,577 | 8,280 | 148 | 35 | 28,655 |
| 1903 | 4,916 | 6,462 | 9 | 7,080 | 8,140 | 1,005 | 1 | 27,613 |
| 1904 | 4,370 | 6,095 | — | 8,294 | 6,900 | 505 | 296 | 26,460 |
| 1905 | 7,221 | 7,010 | — | 9,403 | 6,590 | 323 | 220 | 30,767 |
| 1906 | 10,077 | 7,965 | — | 9,446 | 8,208 | 905 | 324 | 36,925 |
| 1907 | 12,756 | 8,476 | 38 | 8,569 | 7,931 | 2,609 | 226 | 40,605 |
| 1908 | 14,698 | 9,167 | 34 | 8,798 | 5,628 | 1,222 | 158 | 39,705 |
| 1909 | 14,494 | 7,593 | 1 | 8,894 | 5,759 | 1,623 | 43 | 38,407 |
| 1910 | 16,387 | 9,417 | 8 | 8,317 | 5,102 | 2,766 | 118 | 42,115 |
| 1911 | 20,384 | 10,534 | 36 | 6,359 | 5,922 | 2,057 | 41 | 45,333 |
| 1912 | 23,120 | 9,694 | — | 5,203 | 6,295 | 1,703 | 94 | 46,109 |
| 1913 | 23,655 | 9,702 | 36 | 4,672 | 7,161 | 1,311 | 8 | 46,545 |
| 1914 | 18,436 | 3,442 | — | 7,731 | 6,881 | 1,312 | — | 37,802 |
| 1915 | 19,704 | 2,484 | — | 7,819 | 7,725 | 664 | 300 | 38,696 |
| 1916 | 19,520 | 5,776 | — | 6,252 | 7,279 | 734 | 70 | 39,631 |
| 1917 | 19,062 | 5,938 | — | 5,828 | 7,213 | 787 | 44 | 38,872 |
| 1918 | 18,979 | 6,089 | — | 5,524 | 7,169 | 715 | 84 | 38,560 |
| 1919 | 9,997 | 1,503 | — | 5,027 | 2,517 | 247 | 26 | 19,317 |
| 1920 | 15,897 | 1,053 | — | 4,792 | 4,339 | 372 | 17 | 26,470 |
| 1921 | 2,428 | 573 | — | 6,181 | 1,532 | 291 | 8 | 11,013 |
| 1922 | 5,104 | 725 | — | 5,616 | 1,185 | 250 | 15 | 12,895 |
| 1923 | 6,242 | 1,230 | — | 6,065 | 3,523 | 941 | 1 | 18,002 |
| 1924 | 5,630 | 896 | — | 6,698 | 405 | 572 | 8 | 14,209 |
| 1925 | 3,909 | 656 | — | 6,539 | 570 | 138 | † | 11,812 |
| 1926 | 1,217 | 1,000 | — | 6,915 | 231 | — | 2 | 9,365 |
| 1927 | 3,741 | 1,234 | — | 5,811 | 201 | — | — | 10,987 |
| 1928 | 2,786 | 1,250 | — | 6,421 | 192 | 6 | — | 10,655 |
| 1929 | 3,948 | 1,242 | 1 | 8,690 | 277 | 18 | — | 14,176 |
| 1930 | 2,930 | 1,304 | — | 9,941 | 99 | — | 15 | 14,289 |
| 1931 | 3,135 | 650 | — | 9,833 | 22 | — | † | 13,640 |

COPPER PRODUCTION—AUSTRALIA—*continued*
(Copper content of ores, concentrates, etc.)

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1932 | 3,136 | 737 | — | 10,998 | — | — | 4 | 14,875 |
| 1933 | 2,941 | 1,127 | — | 10,739 | 72 | — | † | 14,879 |
| 1934 | 2,906 | 1,201 | — | 8,208 | 207 | — | — | 12,522 |
| 1935 | 2,900 | 1,102 | — | 13,036 | 256 | — | — | 17,294 |
| 1936 | 3,828 | 2,072 | — | 13,040 | 450 | — | 49 | 19,439 |
| 1937 | 5,149 | 1,696 | — | 12,420 | 340 | — | 2 | 19,607 |
| 1938 | 4,459 | 2,386 | — | 12,729 | 254 | 6 | 47 | 19,881 |
| 1939 | 5,798 | 2,621 | — | 13,453 | 110 | † | 24 | 22,006 |
| 1940 | 6,908 | 3,043 | — | 11,572 | 308 | 7 | 16 | 21,854 |
| 1941 | 7,334 | 2,707 | — | 11,645 | 605 | 2 | 75 | 22,368 |
| 1942 | 6,331 | 2,546 | — | 11,785 | 392 | 7 | 3 | 21,064 |
| 1943 | 10,758 | 3,499 | — | 11,148 | 102 | † | 24 | 25,531 |
| 1944 | 15,804 | 3,620 | — | 10,213 | 135 | 16 | 19 | 29,807 |
| 1945 | 15,007 | 3,364 | — | 7,473 | 134 | 36 | 23 | 26,037 |
| 1946 | 6,481 | 2,897 | — | 9,380 | — | 7 | 63 | 18,828 |
| 1947 | 2,778 | 3,217 | — | 7,954 | — | 42 | — | 13,991 |
| 1948 | 3,149 | 2,810 | — | 6,574 | 4 | 29 | 73 | 12,639 |
| 1949 | 4,925 | 2,633 | — | 5,229 | 3 | 30 | 922 | 13,742 |
| 1950 | 5,424 | 3,893 | — | 8,026 | — | 88 | 313 | 17,744 |
| 1951 | 5,432 | 3,679 | — | 8,780 | † | 141 | 193 | 18,225 |
| 1952 | 6,966 | 3,562 | — | 7,858 | 2 | 183 | 428 | 18,999 |
| 1953 | 24,655 | 3,626 | — | 8,902 | 1 | 184 | 88 | 37,456 |
| 1954 | 27,857 | 3,182 | — | 9,880 | † | 396 | 592 | 41,907 |
| 1955 | 31,858 | 3,492 | — | 8,394 | — | 638 | 2,869 | 47,251 |
| 1956 | 35,708 | 4,289 | — | 8,807 | 1 | 709 | 5,898 | 55,412 |
| 1957 | 35,786 | 4,382 | — | 10,984 | 2 | 793 | 8,591 | 60,538 |
| 1958 | 50,511 | 4,023 | — | 11,413 | 1 | 1,107 | 8,660 | 75,715 |
| 1959 | 66,798 | 3,728 | 14 | 12,244 | 16 | 2,197 | 9,953 | 94,950 |
| 1960 | 82,753 | 3,572 | — | 11,680 | 5 | 1,661 | 9,764 | 109,435 |
| 1961 | 66,592 | 3,510 | 8 | 12,689 | 2 | 2,206 | 10,652 | 95,659 |
| 1962 | 79,242 | 3,747 | 10 | 14,515 | 2 | 1,488 | 7,968 | 106,972 |
| 1963 | 83,221 | 3,864 | 6 | 16,805 | 5 | 1,919 | 7,147 | 112,967 |
| 1964 | 74,746 | 3,629 | 10 | 14,879 | 11 | 1,436 | 9,931 | 104,642 |
| Total | 1,170,614 | 353,293 | 1,006 | 610,364 | 452,814 | 43,590 | 87,656 | 2,719,337 |

## COPPER (BLISTER) PRODUCTION—AUSTRALIA

| Year | Queensland | | | New South Wales | Tasmania | Total |
|---|---|---|---|---|---|---|
| | Chillagoe Smelters | Mt. Morgan | Mt. Isa | Pt. Kembla | Mt. Lyell | |
| | primary tons | primary tons | primary tons | primary tons | primary tons | primary tons |
| 1930 | 2,086 | — | — | 959 | 10,018 | 13,063 |
| 1931 | 2,570 | — | — | 970 | 9,913 | 13,453 |
| 1932 | 2,902 | — | — | 959 | 11,101 | 14,763 |
| 1933 | 2,870 | — | — | 784 | 10,839 | 14,493 |
| 1934 | 2,215 | — | — | 755 | 8,280 | 11,250 |
| 1935 | 1,663 | — | — | 1,162 | 13,167 | 15,992 |
| 1936 | 1,981 | — | — | 1,156 | 13,136 | 16,273 |
| 1937 | 2,513 | — | — | 1,377 | 12,470 | 16,360 |
| 1938 | 2,156 | — | — | 2,284 | 12,791 | 17,231 |
| 1939 | 2,211 | — | — | 2,613 | 13,551 | 18,375 |
| 1940 | 2,144 | 4,643 | — | 2,492 | 11,652 | 20,931 |
| 1941 | 1,733 | 5,015 | — | 2,736 | 11,760 | 21,244 |
| 1942 | 1,958 | 4,012 | — | 2,914 | 11,369 | 20,253 |
| 1943 | — | 3,614 | 6,306 | 5,105 | 10,750 | 25,775 |
| 1944 | — | 3,291 | 12,470 | 4,764 | 9,897 | 30,422 |
| 1945 | — | 3,106 | 12,017 | 3,430 | 7,246 | 25,799 |
| 1946 | — | 2,985 | 3,593 | 3,299 | 9,201 | 19,078 |
| 1947 | — | 2,827 | — | 3,029 | 7,730 | 13,586 |
| 1948 | — | 3,178 | — | 1,729 | 6,366 | 11,303 |
| 1949 | — | 3,335 | — | 1,538 | 4,964 | 9,837 |
| 1950 | — | 4,613 | — | 3,856 | 6,951 | 15,420 |
| 1951 | — | 4,406 | — | 3,407 | 7,428 | 15,241 |
| 1952 | — | 5,844 | — | 4,533 | 9,631 | 20,008 |
| 1953 | — | 5,152 | 15,712 | 4,481 | 8,814 | 34,159 |
| 1954 | — | 7,115 | 20,079 | 1,862 | 8,991 | 38,047 |
| 1955 | — | 5,644 | 21,403 | 2,752 | 7,640 | 37,439 |
| 1956 | — | 7,583 | 29,415 | 4,405 | 7,627 | 49,030 |
| 1957 | — | 6,162 | 27,825 | 6,581 | 9,835 | 50,403 |
| 1958 | — | 7,617 | 38,825 | 7,901 | 10,265 | 64,608 |
| 1959 | — | 7,786 | 40,625 | 9,417 | 10,666 | 68,494 |
| 1960 | — | 8,476 | 43,395 | 8,515 | 10,651 | 71,037 |
| 1961 | — | 6,817 | 38,955 | 5,722 | 11,003 | 62,497 |
| 1962 | — | 7,688 | 63,515 | 3,235 | 12,899 | 87,337 |
| 1963 | — | 8,034 | 64,618 | 1,776 | 14,064 | 88,492 |
| 1964 | — | 7,415 | 57,303 | 2,235 | 14,227 | 81,180 |

COPPER (REFINED)—PRICES
(Yearly average)

| Year | Australia | U.K. | U.S.A. | Year | Australia | U.K. | U.S.A. |
|---|---|---|---|---|---|---|---|
| | *a* £A per ton | *b* £stg. per ton | *c* cents per lb. | | *a* £A per ton | *b* £stg. per ton | *c* cents per lb. |
| 1920 | 98 | 98 | 18·01 | 1943 | 100 | 62 | 12·00 |
| 1921 | 69 | 69 | 12·98 | 1944 | 105 | 62 | 12·00 |
| 1922 | 62 | 62 | 13·78 | | | | |
| 1923 | 66 | 66 | 14·96 | 1945 | 100 | 62 | 12·00 |
| 1924 | 63 | 63 | 13·45 | 1946 | 95 | 77 | 14·05 |
| | | | | 1947 | 118 | 131 | 21·29 |
| 1925 | 62 | 62 | 14·44 | 1948 | 140 | 134 | 22·47 |
| 1926 | 58 | 58 | 14·17 | 1949 | 168 | 133 | 19·89 |
| 1927 | 56 | 56 | 13·28 | | | | |
| 1928 | 68 | 64 | 14·89 | 1950 | 189 | 179 | 21·82 |
| 1929 | 85 | 75 | 18·41 | 1951 | 254 | 221 | 24·62 |
| | | | | 1952 | 309 | 259 | 24·62 |
| 1930 | 64 | 55 | 13·40 | 1953 | 330 | 256 | 29·12 |
| 1931 | 53 | 38 | 8·62 | 1954 | 310 | 249 | 30·00 |
| 1932 | 44 | 32 | 5·91 | | | | |
| 1933 | 45 | 33 | 7·34 | 1955 | 437 | 352 | 37·52 |
| 1934 | 40 | 30 | 8·72 | 1956 | 435 | 329 | 41·98 |
| | | | | 1957 | 341 | 219 | 30·16 |
| 1935 | 43 | 32 | 8·95 | 1958 | 308 | 198 | 26·25 |
| 1936 | 52 | 38 | 9·77 | 1959 | 312 | 238 | 31·14 |
| 1937 | 74 | 55 | 13·65 | | | | |
| 1938 | 56 | 41 | 10·30 | 1960 | 325 | 246 | 32·30 |
| 1939 | 60 | 43 | 11·23 | 1961 | 307 | 230 | 29·90 |
| | | | | 1962 | 305 | 234 | 31·00 |
| 1940 | 70 | 62 | 11·66 | 1963 | 305 | 235 | 31·00 |
| 1941 | 82 | 62 | 12·02 | 1964 | 328 | 352 | 32·30 |
| 1942 | 96 | 62 | 12·00 | | | | |

*a* 'Electrolytic' ex-works Port Kembla. *b* Quotations of the L.M.E. cash c.i.f. from 1920 to end of August 1939. From 1st September, 1939 to 4th August, 1953 trade was discontinued at the L.M.E. and prices were under Government control. Prices until 17th December, 1939 c.i.f. U.K. ports and beginning 18th December, 1939 delivered consumer's plant L.M.E. reopened on 5th August, 1953 for electro-copper or high conductivity fire refined copper, cash, for delivery in warehouse. *c* Electrolytic, delivered in U.S. (E.M.J. quotations).

## COPPER INGOTS AND OTHER REFINERY SHAPES—EXPORTS[a] AND IMPORTS[a]—AUSTRALIA

(Includes blister copper)

| | EXPORTS | | | IMPORTS | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1903 | 20,661 | 1,278,947 | 1903 | — | — |
| 1904 | 27,050 | 1,550,281 | 1904 | 2 | 108 |
| 1905 | 14,576 | 978,420 | 1905 | — | — |
| 1906 | 17,939 | 1,548,767 | 1906 | — | — |
| 1907 | 23,136 | 1,961,500 | 1907 | — | — |
| 1908 | 23,043 | 1,356,008 | 1908 | 1 | 77 |
| 1909 | 14,222 | 853,469 | 1909 | 3 | 191 |
| 1910 | 15,434 | 898,473 | 1910 | 6 | 366 |
| 1911 | 20,076 | 1,177,390 | 1911 | 17 | 948 |
| 1912 | 24,209 | 1,803,103 | 1912 | 11 | 822 |
| 1913 | 21,161 | 1,493,236 | 1913 | 2 | 152 |
| 1914 | n.a. | n.a. | 1914 | n.a. | n.a. |
| 1914–15 | 25,311 | 1,697,674 | 1914–15 | 9 | 590 |
| 1915–16 | 30,353 | 2,961,047 | 1915–16 | 1 | 108 |
| 1916–17 | 35,365 | 4,251,702 | 1916–17 | † | 3 |
| 1917–18 | 27,071 | 3,115,253 | 1917–18 | † | 6 |
| 1918–19 | 21,502 | 2,262,627 | 1918–19 | 1 | 102 |
| 1919–20 | 27,411 | 2,765,374 | 1919–20 | 22 | 1,965 |
| 1920–21 | 21,183 | 2,230,766 | 1920–21 | 2 | 266 |
| 1921–22 | 9,382 | 704,988 | 1921–22 | 5 | 402 |
| 1922–23 | 8,777 | 640,105 | 1922–23 | 28 | 1,866 |
| 1923–24 | 5,801 | 392,187 | 1923–24 | 80 | 5,297 |
| 1924–25 | 3,395 | 222,708 | 1924–25 | 197 | 19,603 |
| 1925–26 | 184 | 38,534 | 1925–26 | 34 | 1,840 |
| 1926–27 | 143 | 28,164 | 1926–27 | 277 | 14,786 |
| 1927–28 | 2,358 | 157,930 | 1927–28 | 120 | 6,719 |
| 1928–29 | 2,895 | 225,029 | 1928–29 | 97 | 5,194 |
| 1929–30 | 7,009 | 533,765 | 1929–30 | 65 | 4,504 |
| 1930–31 | 9,658 | 462,013 | 1930–31 | 1 | 23 |
| 1931–32 | 12,022 | 469,003 | 1931–32 | 1 | 54 |
| 1932–33 | 6,532 | 229,713 | 1932–33 | 2 | 113 |
| 1933–34 | 5,266 | 230,458 | 1933–34 | 15 | 667 |
| 1934–35 | 70 | 1,777 | 1934–35 | 43 | 1,868 |
| 1935–36 | 14 | 743 | 1935–36 | 35 | 1,604 |
| 1936–37 | 1,744 | 96,904 | 1936–37 | 22 | 1,076 |
| 1937–38 | 33 | 1,994 | 1937–38 | 65 | 3,358 |
| 1938–39 | 16 | 915 | 1938–39 | 72 | 4,500 |
| 1939–40 | 9 | 611 | 1939–40 | 3,057 | 225,414 |
| 1940–41 | — | — | 1940–41 | 18,095 | 1,383,998 |
| 1941–42 | — | — | 1941–42 | 40,605 | 3,193,213 |
| 1942–43 | — | — | 1942–43 | 53,645 | 3,617,535 |
| 1943–44 | † | 43 | 1943–44 | 15,520 | 1,301,871 |
| 1944–45 | — | — | 1944–45 | 5 | 616 |
| 1946 | 6,840 | 676,376 | 1946 | 156 | 24,861 |
| 1947 | 407 | 38,470 | 1947 | 1,311 | 206,501 |
| 1948 | 32 | 4,624 | 1948 | 11,264 | 1,700,042 |
| 1949 | 6 | 1,333 | 1949 | 23,033 | 3,552,531 |
| 1950 | 1 | 147 | 1950 | 13,948 | 2,584,162 |
| 1951 | 18 | 5,237 | 1951 | 20,142 | 5,091,671 |
| 1952 | 649 | 315,461 | 1952 | 24,206 | 7,450,373 |
| 1953[b] | 9,978 | 2,994,344 | 1953[b] | 1,666 | 574,523 |

[a] Statistics not available prior to 1903. [b] For years 1954 to 1959 inclusive see following two tables.

COPPER (BLISTER)—EXPORTS AND IMPORTS—AUSTRALIA

| EXPORTS | | | IMPORTS | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1954[a] | 9,789 | 2,734,477 | 1954[a] | 500 | 150,597 |
| 1955 | 8,159 | 3,089,898 | 1955 | — | — |
| 1956 | 15,574 | 5,791,895 | 1956 | — | — |
| 1957 | 19,079 | 5,004,107 | 1957 | — | — |
| 1958 | 14,421 | 3,156,258 | 1958 | — | — |
| 1959 | 16,225 | 4,374,554 | 1959 | — | — |
| 1960 | 502 | 161,787 | 1960 | — | — |
| 1961 | 1,022 | 395,164 | 1961 | — | — |
| 1962 | — | — | 1962 | — | — |
| 1963 | 464 | 119,784 | 1963 | — | — |
| 1964 | 40 | 10,188 | 1964 | — | — |

[a] For years 1903 to 1953 included with refined copper ingots, etc.

COPPER (INGOTS AND OTHER REFINERY SHAPES)—EXPORTS AND IMPORTS—AUSTRALIA

| EXPORTS | | | IMPORTS | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1954[a] | 14 | 3,313 | 1954[a] | 14,409 | 4,549,127 |
| 1955 | 2 | 783 | 1955 | 21,303 | 8,110,998 |
| 1956 | 1,002 | 450,238 | 1956 | 250 | 98,235 |
| 1957 | 1 | 683 | 1957 | 4,251 | 1,374,465 |
| 1958 | — | — | 1958 | 659 | 165,019 |
| 1959 | 2,749 | 824,118 | 1959 | 4,379 | 1,098,545 |
| 1960 | 13,577 | 4,158,305 | 1960 | 4,750 | 1,566,012 |
| 1961 | 23,073 | 6,698,458 | 1961 | 3,761 | 1,129,785 |
| 1962 | 16,497 | 4,827,131 | 1962 | 5,268 | 1,598,788 |
| 1963 | 24,485 | 7,008,899 | 1963 | 1,434 | 439,391 |
| 1964 | 13,817 | 4,157,611 | 1964 | 10,121 | 3,972,035 |

[a] For years 1903 to 1953 included blister copper.

## COPPER ORE AND CONCENTRATE—EXPORTS AND IMPORTS—AUSTRALIA

| EXPORTS[a] | | | | IMPORTS[a] | | |
|---|---|---|---|---|---|---|
| Year | tons | Copper Content tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1903 | 3,078 | n.a. | 76,888 | 1903 | † | 4 |
| 1904 | 4,505 | n.a. | 100,567 | 1904 | 1 | 20 |
| 1905 | 868 | n.a. | 19,577 | 1905 | 4 | 18 |
| 1906 | 1,674 | n.a. | 34,189 | 1906 | 44 | 410 |
| 1907 | 7,804 | n.a. | 154,596 | 1907 | 183 | 3,497 |
| 1908 | 5,185 | n.a. | 68,215 | 1908 | 198 | 2,314 |
| 1909 | 8,146 | 1,543 | 81,947 | 1909 | 227 | 3,378 |
| 1910 | 13,030 | 2,957 | 142,916 | 1910 | 1,151 | 8,689 |
| 1911 | 13,234 | 2,235 | 68,530 | 1911 | 510 | 4,827 |
| 1912 | 12,980 | 1,763 | 100,776 | 1912 | 922 | 9,132 |
| 1913 | 8,888 | 1,435 | 98,640 | 1913 | 1,254 | 12,550 |
| 1914 | n.a. | n.a. | n.a. | 1914 | n.a. | n.a. |
| 1914–15 | 7,118 | 1,124 | 73,563 | 1914–15 | 702 | 7,120 |
| 1915–16 | 4,464 | 809 | 58,670 | 1915–16 | 813 | 9,794 |
| 1916–17 | 30 | 3 | 300 | 1916–17 | 1,449 | 14,286 |
| 1917–18 | — | — | — | 1917–18 | 495 | 4,591 |
| 1918–19 | — | — | — | 1918–19 | 936 | 9,192 |
| 1919–20 | 108 | 21 | 1,920 | 1919–20 | 169 | 1,673 |
| 1920–21 | 908 | 178 | 13,978 | 1920–21 | 55 | 543 |
| 1921–22 | 122 | 27 | 1,837 | 1921–22 | — | — |
| 1922–23 | 149 | 45 | 2,099 | 1922–23 | 75 | 928 |
| 1923–24 | 773 | 218 | 9,274 | 1923–24 | † | 5 |
| 1924–25 | 764 | 161 | 40,108 | 1924–25 | 12 | 216 |
| 1925–26 | 795 | 123 | 13,293 | 1925–26 | 4 | 59 |
| 1926–27 | 511 | 119 | 3,811 | 1926–27 | — | — |
| 1927–28 | 1,067 | 314 | 11,062 | 1927–28 | 21 | 254 |
| 1928–29 | 2,584 | 1,015 | 48,532 | 1928–29 | — | — |
| 1929–30 | 2,579 | 1,029 | 51,233 | 1929–30 | 3 | 131 |
| 1930–31 | 562 | 299 | 10,411 | 1930–31 | — | — |

[a] Not available prior to 1903.

COPPER ORE AND CONCENTRATE—EXPORTS AND IMPORTS—AUSTRALIA—*continued*

| | EXPORTS[a] | | | | IMPORTS[a] | |
|---|---|---|---|---|---|---|
| Year | tons | Copper Content tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1931–32 | 152 | 95 | 1,867 | 1931–32 | — | — |
| 1932–33 | 914 | 34 | 6,225 | 1932–33 | — | — |
| 1933–34 | 6,851 | 842 | 272,398 | 1933–34 | — | — |
| 1934–35 | 6,274 | 876 | 331,983 | 1934–35 | — | — |
| 1935–36 | 10,190 | 2,178 | 338,549 | 1935–36 | — | — |
| 1936–37 | 12,372 | 1,976 | 395,494 | 1936–37 | — | — |
| 1937–38 | 13,728 | 1,694 | 387,337 | 1937–38 | 12 | 46 |
| 1938–39 | 13,388 | 2,269 | 407,538 | 1938–39 | 54 | 6,626 |
| 1939–40 | 5,069 | 1,100 | 186,169 | 1939–40 | 95 | 4,596 |
| 1940–41 | 2 | 1 | 270 | 1940–41 | — | — |
| 1941–42 | — | — | — | 1941–42 | † | 5 |
| 1942–43 | — | — | — | 1942–43 | — | — |
| 1943–44 | — | — | — | 1943–44 | — | — |
| 1944–45 | — | — | — | 1944–45 | — | — |
| 1945–46 | — | — | — | 1945–46 | — | — |
| 1946–47 | — | — | — | 1946–47 | 531 | 9,956 |
| 1947–48 | 3,779 | 336 | 204,089 | 1947–48 | † | 1 |
| 1948–49 | — | — | — | 1948–49 | 22 | 324 |
| 1949–50 | — | — | — | 1949–50 | 605 | 3,802 |
| 1950–51 | † | † | 10 | 1950–51 | 20 | 681 |
| 1951–52 | 7 | n.a. | 1,205 | 1951–52 | 4 | 314 |
| 1952–53 | 16 | n.a. | 2,900 | 1952–53 | 38 | 1,747 |
| 1954 | 2,050 | 475 | 140,157 | 1954 | 30 | 1,518 |
| 1955 | 3,953 | 1,150 | 248,483 | 1955 | 21 | 2,622 |
| 1956 | 11,519 | 2,670 | 1,132,489 | 1956 | 7 | 750 |
| 1957 | 16,067 | 3,800 | 911,088 | 1957 | — | — |
| 1958 | 14,951 | 3,767 | 627,374 | 1958 | — | — |
| 1959 | 73,286 | 20,095 | 4,209,212 | 1959 | — | — |
| 1960 | 137,897 | 36,210 | 8,720,749 | 1960 | — | — |
| 1961 | 107,237 | 28,012 | 6,470,220 | 1961 | — | — |
| 1962 | 78,983 | 21,828 | 4,984,385 | 1962 | — | — |
| 1963 | 30,937 | 11,881 | 2,051,223 | 1963 | — | — |
| 1964 | 47,255 | 18,982 | 3,242,479 | 1964 | — | — |

[a] Not available prior to 1903.

## COPPER PRODUCTION—QUEENSLAND

(Copper content of ores, concentrates, etc.)

| Year | Mt. Isa District[a] | Mount Morgan District[b] | Clermont and Rockhampton Districts | Chillagoe and Herberton Districts | Gladstone and Mt. Perry Districts | Miscellaneous[c] | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1860 | — | — | 1 | — | — | — | 1 |
| 1861 | — | — | 49 | — | — | — | 49 |
| 1862 | — | — | 268 | — | — | — | 268 |
| 1863 | — | — | 1,100 | — | — | — | 1,100 |
| 1864 | — | — | 2,000 | — | — | — | 2,000 |
| 1865 | — | — | 721 | — | — | — | 721 |
| 1866 | — | — | 3,168 | — | — | — | 3,168 |
| 1867 | — | — | 6,140 | — | — | — | 6,140 |
| 1868 | — | — | 9,033 | — | — | — | 9,033 |
| 1869 | — | — | 6,310 | — | — | — | 6,310 |
| 1870 | — | — | 1,335 | — | — | — | 1,335 |
| 1871 | — | — | 2,490 | — | — | — | 2,490 |
| 1872 | — | — | 2,427 | — | — | 21 | 2,449 |
| 1873 | — | — | 1,404 | — | 987 | 50 | 2,441 |
| 1874 | — | — | 1,476 | — | 682 | 70 | 2,228 |
| 1875 | — | — | 1,194 | — | 470 | 10 | 1,674 |
| 1876 | — | — | 1,585 | — | 520 | — | 2,105 |
| 1877 | — | — | 1,799 | — | 160 | — | 1,959 |
| 1878 | — | — | 474 | — | 100 | — | 574 |
| 1879 | — | — | 527 | — | 40 | — | 567 |
| 1880 | — | — | 226 | — | 100 | — | 326 |
| 1881 | — | — | 271 | — | 60 | — | 331 |
| 1882 | — | — | 1,424 | — | 300 | — | 1,724 |
| 1883 | — | — | 1,640 | — | 160 | — | 1,800 |
| 1884 | 400 | — | — | — | 1,251 | 2 | 1,653 |
| 1885 | 1,340 | — | — | — | — | — | 1,340 |
| 1886 | 900 | — | — | — | — | — | 900 |
| 1887 | 1,010 | — | — | — | — | — | 1,010 |
| 1888 | — | — | — | — | 1,096 | 30 | 1,126 |
| 1889 | — | — | — | 100 | 979 | — | 1,079 |
| 1890 | — | — | — | 100 | 85 | — | 185 |
| 1891 | — | — | — | 98 | — | — | 98 |
| 1892 | — | — | — | 19 | 42 | 20 | 81 |
| 1893 | — | — | — | 99 | 98 | 100 | 297 |
| 1894 | — | — | — | 317 | 98 | — | 415 |
| 1895 | — | — | — | 297 | — | 137 | 434 |
| 1896 | — | — | — | 409 | — | 171 | 580 |
| 1897 | — | — | 4 | 154 | — | 130 | 288 |
| 1898 | 5 | 5 | — | 31 | 2 | 19 | 62 |
| 1899 | 2 | — | — | 17 | 31 | 111 | 161 |
| 1900 | 13 | — | 10 | 21 | 44 | 296 | 384 |
| 1901 | 236 | 1 | 10 | 2,259 | 275 | 280 | 3,061 |
| 1902 | 51 | 31 | 23 | 2,498 | 1,057 | 124 | 3,784 |

[a] Established 1st January, 1958; figures were previously included in Cloncurry district. Figures from 1931 to 1949 include small amounts of copper content of dross produced at Mt. Isa. From 1950 figures represent copper content of copper concentrates produced and copper content of dross. [b] Figures from 1906 to 1949 represent copper content of blister produced; from 1950 copper content of copper concentrates produced. [c] Includes production from the following districts: Etheridge, Charters Towers, Stanthorpe, Mackay, Ravenswood, Gympie and Kilkivan, Bowen, Kangaroo Hills, Port Douglas, Burketown and Biggenden.

COPPER PRODUCTION—QUEENSLAND—*continued*

(Copper content of ores, concentrates, etc.)

| Year | Mt. Isa District[a] | Mount Morgan District[b] | Clermont and Rockhampton Districts | Chillagoe and Herberton Districts | Gladstone and Mt. Perry Districts | Miscellaneous[c] | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1903 | 148 | 135 | 12 | 2,757 | 1,782 | 82 | 4,916 |
| 1904 | 403 | 481 | 4 | 1,845 | 1,475 | 162 | 4,370 |
| 1905 | 456 | 237 | 4 | 4,824 | 1,545 | 155 | 7,221 |
| 1906 | 590 | 2,567 | 60 | 4,286 | 2,233 | 341 | 10,077 |
| 1907 | 692 | 4,713 | 134 | 4,188 | 2,455 | 574 | 12,756 |
| 1908 | 1,321 | 6,301 | 839 | 3,875 | 1,764 | 598 | 14,698 |
| 1909 | 2,361 | 6,270 | 1,274 | 2,969 | 671 | 949 | 14,494 |
| 1910 | 3,430 | 6,338 | 1,593 | 1,996 | 1,426 | 1,604 | 16,387 |
| 1911 | 8,511 | 5,264 | 1,834 | 943 | 2,576 | 1,256 | 20,384 |
| 1912 | 10,435 | 7,068 | 1,350 | 606 | 2,208 | 1,453 | 23,120 |
| 1913 | 9,772 | 7,648 | 2,253 | 794 | 1,784 | 1,404 | 23,655 |
| 1914 | 8,215 | 7,796 | 590 | 220 | 1,314 | 301 | 18,436 |
| 1915 | 9,880 | 8,018 | 8 | 785 | 934 | 79 | 19,704 |
| 1916 | 9,908 | 7,646 | 22 | 661 | 1,098 | 185 | 19,520 |
| 1917 | 10,189 | 6,971 | 10 | 769 | 920 | 203 | 19,062 |
| 1918 | 11,625 | 6,655 | 20 | 267 | 240 | 172 | 18,979 |
| 1919 | 4,346 | 5,332 | 2 | 95 | 192 | 30 | 9,997 |
| 1920 | 7,672 | 6,263 | 1 | 627 | 192 | 1,142 | 15,897 |
| 1921 | 89 | 1,289 | — | 200 | 30 | 820 | 2,428 |
| 1922 | 325 | 4,484 | — | 103 | 12 | 180 | 5,104 |
| 1923 | 519 | 4,848 | — | 807 | 30 | 38 | 6,242 |
| 1924 | 261 | 4,865 | — | 440 | 53 | 11 | 5,630 |
| 1925 | 982 | 2,635 | — | 277 | 7 | 8 | 3,909 |
| 1926 | 1,098 | — | — | 111 | 4 | 4 | 1,217 |
| 1927 | 2,905 | 812 | — | 8 | 13 | 3 | 3,741 |
| 1928 | 2,339 | 431 | — | 4 | 11 | 1 | 2,786 |
| 1929 | 3,377 | 180 | † | 99 | 72 | 220 | 3,948 |
| 1930 | 2,169 | 276 | — | 390 | 81 | 14 | 2,930 |
| 1931 | 2,317 | 150 | — | 648 | 16 | 4 | 3,135 |
| 1932 | 2,597 | 14 | — | 459 | 3 | 63 | 3,136 |
| 1933 | 2,088 | 423 | — | 378 | 19 | 33 | 2,941 |
| 1934 | 1,878 | 756 | — | 236 | 32 | 4 | 2,906 |
| 1935 | 1,418 | 1,166 | — | 297 | 12 | 7 | 2,900 |
| 1936 | 1,862 | 1,675 | — | 239 | 10 | 42 | 3,828 |
| 1937 | 2,720 | 1,962 | 18 | 239 | 12 | 198 | 5,149 |
| 1938 | 1,562 | 2,488 | — | 248 | 9 | 152 | 4,459 |
| 1939 | 2,084 | 3,300 | — | 211 | 8 | 195 | 5,798 |
| 1940 | 1,688 | 4,699 | 1 | 249 | 7 | 264 | 6,908 |
| 1941 | 1,645 | 5,126 | — | 346 | 7 | 210 | 7,334 |
| 1942 | 1,283 | 4,309 | 182 | 292 | 8 | 257 | 6,331 |
| 1943 | 6,636 | 3,765 | 133 | 55 | 6 | 163 | 10,758 |
| 1944 | 12,421 | 3,145 | 1 | 5 | 11 | 221 | 15,804 |

[a] Established 1st January, 1958; figures were previously included in Cloncurry district. Figures from 1931 to 1949 include small amounts of copper content of dross produced at Mt. Isa. From 1950 figures represent copper content of copper concentrates produced and copper content of dross. [b] Figures from 1906 to 1949 represent copper content of blister produced; from 1950 copper content of copper concentrates produced. [c] Includes production from the following districts: Etheridge, Charters Towers, Stanthorpe, Mackay, Ravenswood, Gympie and Kilkivan, Bowen, Kangaroo Hills, Port Douglas, Burketown and Biggenden.

COPPER PRODUCTION—QUEENSLAND—*continued*

(Copper content of ores, concentrates, etc.)

| Year | Mt. Isa District[a] | Mount Morgan District[b] | Clermont and Rockhampton Districts | Chillagoe and Herberton Districts | Gladstone and Mt. Perry Districts | Miscellaneous[c] | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1945 | 11,963 | 3,005 | — | — | 10 | 29 | 15,007 |
| 1946 | 3,597 | 2,697 | — | — | — | 187 | 6,481 |
| 1947 | 57 | 2,570 | — | 3 | 2 | 146 | 2,778 |
| 1948 | 16 | 2,962 | — | 4 | 5 | 162 | 3,149 |
| 1949 | 1,619 | 3,126 | — | — | 10 | 170 | 4,925 |
| 1950 | 610 | 4,693 | — | 1 | 7 | 113 | 5,424 |
| 1951 | 373 | 4,960 | — | 2 | 17 | 80 | 5,432 |
| 1952 | 570 | 6,337 | † | — | 17 | 42 | 6,966 |
| 1953 | 17,655 | 6,819 | — | 1 | 17 | 163 | 24,655 |
| 1954 | 20,233 | 7,277 | — | 4 | 18 | 325 | 27,857 |
| 1955 | 24,961 | 6,804 | † | 3 | 14 | 76 | 31,858 |
| 1956 | 29,490 | 6,134 | — | 7 | 16 | 61 | 35,708 |
| 1957 | 29,239 | 6,460 | — | — | 25 | 62 | 35,786 |
| 1958 | 42,302 | 8,127 | — | 2 | 16 | 64 | 50,511 |
| 1959 | 58,687 | 8,062 | 1 | — | 17 | 31 | 66,798 |
| 1960 | 73,513 | 9,188 | — | — | 5 | 47 | 82,753 |
| 1961 | 58,414 | 8,071 | — | 2 | 5 | 100 | 66,592 |
| 1962 | 74,986 | 7,365 | — | † | 7 | 222 | 82,580 |
| 1963 | 73,705 | 8,477 | — | 7 | 17 | 222 | 82,428 |
| 1964 | 67,311 | 7,423 | — | — | 12 | — | 74,746 |
| Total | 749,475 | 269,095 | 57,455 | 45,303 | 34,156 | 17,675 | 1,173,159 |

[a] Established 1st January, 1958; figures were previously included in Cloncurry district. Figures from 1931 to 1949 include small amounts of copper content of dross produced at Mt. Isa. From 1950 figures represent copper content of copper concentrates produced and copper content of dross. [b] Figures from 1906 to 1949 represent copper content of blister produced; from 1950 copper content of copper concentrates produced. [c] Includes production from the following districts: Etheridge, Charters Towers, Stanthorpe, Mackay, Ravenswood, Gympie and Kilkivan, Bowen, Kangaroo Hills, Port Douglas, Burketown and Biggenden.

## COPPER PRODUCTION—NEW SOUTH WALES
(Copper content of ores, concentrates, etc.)

| Year | North-East[a] | South[b] and South-East | Central[c] West | West | | | Total |
|---|---|---|---|---|---|---|---|
| | | | | Cobar[d] | Broken Hill[f] | Others[g] | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1859–69 | n.a. | n.a. | n.a. | — | — | n.a. | [e]4,073 |
| 1870–76 | n.a. | n.a. | n.a. | 1,155 | — | n.a. | [e]16,943 |
| 1877 | — | 88 | 613 | 523 | — | 517 | 1,741 |
| 1878 | 4 | — | 241 | 1,457 | — | 11 | 1,713 |
| 1879 | — | — | 262 | 1,891 | — | — | 2,153 |
| 1880 | — | — | 330 | 2,600 | — | — | 2,930 |
| 1881 | — | — | 400 | 2,568 | — | 936 | 3,904 |
| 1882 | — | — | 632 | 1,805 | — | 1,154 | 3,591 |
| 1883 | — | — | 1,309 | 2,401 | — | 2,350 | 6,060 |
| 1884 | — | — | 685 | 2,769 | — | 3,806 | 7,260 |
| 1885 | — | — | 511 | 2,135 | — | 2,444 | 5,090 |
| 1886 | — | — | 321 | 2,044 | — | 1,468 | 3,833 |
| 1887 | — | 21 | 120 | 1,521 | — | 1,036 | 2,698 |
| 1888 | 4 | — | 1,126 | 1,005 | 25 | 1,576 | 3,736 |
| 1889 | — | 70 | 44 | 668 | 32 | 1,490 | 2,304 |
| 1890 | — | — | 699 | — | 175 | 1,244 | 2,118 |
| 1891 | 24 | — | 1,072 | — | 473 | 1,124 | 2,693 |
| 1892 | — | 1,227 | 305 | — | 223 | 957 | 2,712 |
| 1893 | 6 | 375 | 45 | — | 184 | 223 | 833 |
| 1894 | — | 149 | 743 | 665 | 714 | 423 | 2,694 |
| 1895 | — | 353 | 404 | 1,694 | 446 | 762 | 3,659 |
| 1896 | — | 205 | 494 | 2,708 | 570 | 576 | 4,553 |
| 1897 | — | 336 | 770 | 2,492 | 1,185 | 842 | 5,625 |
| 1898 | 17 | 722 | 604 | 3,520 | 18 | 904 | 5,785 |
| 1899 | 265 | 562 | 1,214 | 3,749 | 30 | 768 | 6,588 |
| 1900 | 440 | 62 | 1,336 | 3,504 | 3 | 808 | 6,153 |
| 1901 | 694 | 48 | 1,622 | 3,341 | — | 693 | 6,398 |
| 1902 | 355 | 23 | 1,220 | 2,566 | — | 2,667 | 6,831 |
| 1903 | 377 | 41 | 1,907 | 3,521 | 3 | 613 | 6,462 |
| 1904 | 736 | 66 | 843 | 3,717 | — | 733 | 6,095 |
| 1905 | 259 | 27 | 1,332 | 4,561 | 50 | 781 | 7,010 |
| 1906 | 471 | 99 | 1,725 | 4,603 | 70 | 997 | 7,965 |
| 1907 | 781 | 81 | 1,956 | 4,857 | — | 801 | 8,476 |
| 1908 | 732 | 357 | 1,323 | 5,795 | 7 | 953 | 9,167 |
| 1909 | 868 | 698 | 449 | 5,550 | 6 | 22 | 7,593 |
| 1910 | 985 | 1,591 | 195 | 6,399 | 15 | 232 | 9,417 |
| 1911 | 960 | 2,294 | 320 | 6,668 | — | 292 | 10,534 |

[a] Includes the following localities: Copmanhurst, Barraba, Bingara, Tingha, Drake, Attunga, Walcha, Hillgrove, Tamworth, Kempsey and Grafton. [b] Includes the following localities: Cootamundra, Goulburn, Gundagai, Kangiara, Tolwong, Bungonia, Adelong, Captain's Flat, Lobb's Hole, Cooma, Braidwood, Delegate, Queanbeyan, Kiandra, Tumut, Ravine and Collector. [c] Includes the following localities: Orange, Bathurst, Burraga, Tuena, Rockley, Oberon, Cowra, Forbes, Mt. McDonell, Blayney, Burrowa, Sunny Corner, Cudal, Molong, Condobolin, Cadia, Milburn Creek, Carcoar, Mudgee, Dandaloo, Peak Hill, Wellington, Gulgong, Totenham, Bobadah, Frogmore, Rye Park and Grenfell. [d] Includes the following mines: Great Cobar, New Cobar, Chesney, C.S.A. Mt. Pleasant, Tinto, Gladstone, Young Australia, Queen Bee. [f] Figures from 1921 to 1949 represent copper content of copper made and dross produced at Port Pirie by B.H.A.S. from Broken Hill lead concentrates; from 1950 represent copper content of concentrates. [g] Includes the following localities and mines: Nymagee, Canbelego, Mt. Hope, Girilambone, Hermidale and Budgery.

COPPER PRODUCTION—NEW SOUTH WALES—*continued*
(Copper content of ores, concentrates, etc.)

| Year | North-East[a] | South[b] and South-East | Central[c] West | West | | | Total |
|---|---|---|---|---|---|---|---|
| | | | | Cobar[d] | Broken Hill[f] | Others[g] | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1912 | 1,047 | 1,033 | 436 | 6,814 | 3 | 361 | 9,694 |
| 1913 | 480 | 280 | 2,296 | 6,208 | — | 438 | 9,702 |
| 1914 | 135 | 7 | 1,347 | 1,802 | — | 157 | 3,442 |
| 1915 | 153 | 13 | 422 | 1,158 | 2 | 736 | 2,484 |
| 1916 | 103 | 72 | 1,202 | 3,320 | — | 1,079 | 5,776 |
| 1917 | 142 | 140 | 1,072 | 3,421 | — | 1,163 | 5,938 |
| 1918 | 241 | 25 | 586 | 4,869 | — | 368 | 6,089 |
| 1919 | 76 | 6 | 157 | 1,052 | 9 | 203 | 1,503 |
| 1920 | 8 | 40 | 184 | 459 | — | 362 | 1,053 |
| 1921 | 27 | — | 41 | 15 | [e]450 | 40 | 573 |
| 1922 | 5 | 3 | 257 | — | [e]460 | — | 725 |
| 1923 | — | 5 | 175 | — | 1,000 | 50 | 1,230 |
| 1924 | 5 | 1 | 272 | — | 527 | 91 | 896 |
| 1925 | — | 1 | 337 | — | 313 | 5 | 656 |
| 1926 | — | — | 130 | — | 716 | 154 | 1,000 |
| 1927 | — | 1 | 151 | — | 1,082 | — | 1,234 |
| 1928 | — | — | 45 | — | 1,205 | — | 1,250 |
| 1929 | — | 3 | 64 | — | [e]1,140 | 35 | 1,242 |
| 1930 | — | 1 | 52 | — | [e]1,230 | 21 | 1,304 |
| 1931 | — | — | 6 | — | 630 | 14 | 650 |
| 1932 | — | — | 4 | — | 733 | — | 737 |
| 1933 | — | — | [e]6 | — | 1,121 | — | 1,127 |
| 1934 | — | [e]2 | — | — | 1,163 | 36 | 1,201 |
| 1935 | — | — | — | — | 1,076 | 26 | 1,102 |
| 1936 | — | — | — | — | [e]2,052 | 20 | 2,072 |
| 1937 | 3 | — | 20 | 70 | 1,585 | 18 | 1,696 |
| 1938 | 1 | — | — | 648 | 1,733 | 4 | 2,386 |
| 1939 | n.a. | [e]500 | n.a. | 515 | 1,606 | n.a. | [i]2,621 |
| 1940 | n.a. | [e]875 | n.a. | 579 | 1,589 | n.a. | [i]3,043 |
| 1941 | n.a. | [e]875 | n.a. | 582 | 1,250 | n.a. | [i]2,707 |
| 1942 | n.a. | [e]1,000 | n.a. | 491 | 1,055 | n.a. | [i]2,546 |
| 1943 | n.a. | [e]1,000 | n.a. | 466 | 2,033 | n.a. | [i]3,499 |
| 1944 | n.a. | [e]600 | n.a. | 1,286 | 1,734 | n.a. | [i]3,620 |
| 1945 | n.a. | [e]450 | n.a. | 784 | [e]2,130 | n.a. | [i]3,364 |
| 1946 | — | 683 | 1 | 864 | [e]1,310 | 39 | 2,897 |
| 1947 | — | 605 | 26 | 684 | [e]1,900 | 2 | 3,217 |
| 1948 | 19 | 480 | 25 | 813 | [e]1,431 | 42 | 2,810 |

[a] Includes the following localities: Copmanhurst, Barraba, Bingara, Tingha, Drake, Attunga, Walcha, Hillgrove, Tamworth, Kempsey and Grafton. [b] Includes the following localities: Cootamundra, Goulburn, Gundagai, Kangiara, Tolwong, Bungonia, Adelong, Captain's Flat, Lobb's Hole, Cooma, Braidwood, Delegate, Queanbeyan, Kiandra, Tumut, Ravine and Collector. [c] Includes the following localities: Orange, Bathurst, Burraga, Tuena, Rockley, Oberon, Cowra, Forbes, Mt. McDonell, Blayney, Burrowa, Sunny Corner, Cudal, Molong, Condobolin, Cadia, Milburn Creek, Carcoar, Mudgee, Dandaloo, Peak Hill, Wellington, Gulgong, Totenham, Bobadah, Frogmore, Rye Park and Grenfell. [d] Includes the following mines: Great Cobar, New Cobar, Chesney, C.S.A. Mt. Pleasant, Tinto, Gladstone, Young Australia, Queen Bee. [f] Figures from 1921 to 1949 represent copper content of copper made and dross produced at Port Pirie by B.H.A.S. from Broken Hill lead concentrates; from 1950 represent copper content of concentrates. [g] Includes the following localities and mines: Nymagee, Canbelego, Mt. Hope, Girilambone, Hermidale and Budgery.

COPPER PRODUCTION—NEW SOUTH WALES—*continued*
(Copper content of ores, concentrates, etc.)

| Year | North-East[a] | South[b] and South-East | Central[c] West | West | | | Total |
|---|---|---|---|---|---|---|---|
| | | | | Cobar[d] | Broken Hill[f] | Others[g] | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1949 | 34 | 267 | 67 | 773 | [e]1,448 | 44 | 2,633 |
| 1950 | 20 | 1,085 | 120 | 838 | 1,762 | 68 | 3,893 |
| 1951 | 4 | 963 | 14 | 866 | 1,724 | 108 | 3,679 |
| 1952 | 1 | 1,009 | 14 | 687 | 1,788 | 63 | 3,562 |
| 1953 | † | 930 | 31 | 2 | 2,610 | 53 | 3,626 |
| 1954 | — | 437 | — | 6 | 2,702 | 37 | 3,182 |
| 1955 | 18 | 831 | 11 | 15 | 2,576 | 41 | 3,492 |
| 1956 | 59 | 1,086 | 16 | 5 | 3,086 | 37 | 4,289 |
| 1957 | 50 | 1,012 | 9 | 6 | 3,272 | 33 | 4,382 |
| 1958 | — | 1,105 | 6 | — | 2,847 | 65 | 4,023 |
| 1959 | 1 | 983 | 13 | — | 2,649 | 82 | 3,728 |
| 1960 | 5 | 952 | 6 | — | 2,550 | 59 | 3,572 |
| 1961 | 2 | 995 | 40 | 4 | 2,425 | 44 | 3,510 |
| 1962 | — | 167 | 61 | 48 | 3,471 | — | 3,747 |
| 1963 | — | — | 28 | 89 | 3,747 | — | 3,864 |
| 1964 | — | — | 5 | 279 | 3,345 | — | 3,629 |
| Total | 10,617 | 30,018 | 36,927 | 134,970 | 80,499 | 40,401 | 353,293 |

[a] Includes the following localities: Copmanhurst, Barraba, Bingara, Tingha, Drake, Attunga, Walcha, Hillgrove, Tamworth, Kempsey and Grafton. [b] Includes the following localities: Cootamundra, Goulburn, Gundagai, Kangiara, Tolwong, Bungonia, Adelong, Captain's Flat, Lobb's Hole, Cooma, Braidwood, Delegate, Queanbeyan, Kiandra, Tumut, Ravine and Collector. [c] Includes the following localities: Orange, Bathurst, Burraga, Tuena, Rockley, Oberon, Cowra, Forbes, Mt. McDonell, Blayney, Burrowa, Sunny Corner, Cudal, Molong, Condobolin, Cadia, Milburn Creek, Carcoar, Mudgee, Dandaloo, Peak Hill, Wellington, Gulgong, Totenham, Bobadah, Frogmore, Rye Park and Grenfell. [d] Includes the following mines: Great Cobar, New Cobar, Chesney, C.S.A. Mt. Pleasant, Tinto, Gladstone, Young Australia, Queen Bee. [f] Figures from 1921 to 1949 represent copper content of copper made and dross produced at Port Pirie by B.H.A.S. from Broken Hill lead concentrates; from 1950 represent copper content of concentrates. [g] Includes the following localities and mines: Nymagee, Conbolego, Mt. Hope, Girilambone, Hermidale and Budgery.

## COPPER PRODUCTION—TASMANIA
(Copper content of ores, concentrates, etc.)

| Year | Mt. Lyell[a] | Zeehan, Dundas, Read-Rosebery[b] | Miscellaneous[c] | Total[d] |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 94 | 112 | — | n.a. | |
| 95 | — | — | n.a. | 304 |
| 96 | — | — | n.a. | |
| 97 | 4,750 | — | 52 | 4,802 |
| 98 | 4,895 | — | 166 | 5,061 |
| 99 | 8,269 | — | 516 | 8,785 |
| 00 | 9,281 | — | 871 | 10,152 |
| 01 | 9,727 | — | 1,786 | 11,513 |
| 02 | 7,640 | — | 1,937 | 9,577 |
| 03 | 5,627 | — | 1,453 | 7,080 |
| 04 | 8,266 | — | 28 | 8,294 |
| 05 | 8,506 | — | 897 | 9,403 |
| 06 | 8,613 | 91 | 742 | 9,446 |
| 07 | 8,144 | 55 | 370 | 8,569 |
| 08 | 8,722 | 17 | 59 | 8,798 |
| 09 | 8,534 | 36 | 324 | 8,894 |
| 10 | 8,094 | — | 223 | 8,317 |
| 11 | 5,951 | — | 408 | 6,359 |
| 12 | 5,073 | 16 | 114 | 5,203 |
| 13 | 4,511 | — | 161 | 4,672 |
| 14 | 7,420 | — | 311 | 7,731 |
| 15 | 7,814 | — | 5 | 7,819 |
| 16 | 6,237 | — | 15 | 6,252 |
| 17 | 5,779 | 1 | 48 | 5,828 |
| 18 | 5,490 | — | 34 | 5,524 |
| 19 | 5,014 | — | 13 | 5,027 |
| 20 | 4,791 | — | 1 | 4,792 |
| 21 | 6,170 | — | 11 | 6,181 |
| 22 | 5,616 | — | — | 5,616 |
| 23 | 6,052 | — | 13 | 6,065 |
| 24 | 6,698 | — | — | 6,698 |
| 25 | 6,539 | — | — | 6,539 |
| 26 | 6,915 | — | — | 6,915 |
| 27 | 5,811 | — | — | 5,811 |
| 28 | 6,421 | — | — | 6,421 |
| 29 | 8,668 | 20 | 2 | 8,690 |
| 1930 | 9,941 | — | — | 9,941 |
| 1931 | 9,833 | — | — | 9,833 |
| 1932 | 10,995 | — | 3 | 10,998 |
| 1933 | 10,734 | 5 | — | 10,739 |
| 1934 | 8,202 | 6 | — | 8,208 |
| 1935 | 13,036 | — | — | 13,036 |
| 1936 | 13,040 | — | — | 13,040 |
| 1937 | 12,382 | — | 38 | 12,420 |
| 1938 | 12,700 | 11 | 18 | 12,729 |
| 1939 | 13,453 | — | — | 13,453 |
| 1940 | 11,570 | — | 2 | 11,572 |
| 1941 | 11,642 | — | 3 | 11,645 |
| 1942 | 11,255 | 529 | 1 | 11,785 |
| 1943 | 10,684 | 464 | — | 11,148 |
| 1944 | 9,831 | 382 | — | 10,213 |
| 1945 | 7,197 | 276 | — | 7,473 |
| 1946 | 9,134 | 246 | — | 9,380 |
| 1947 | 7,667 | 286 | 1 | 7,954 |
| 1948 | 6,326 | 248 | — | 6,574 |
| 1949 | 4,923 | 306 | — | 5,229 |
| 1950 | 7,495 | 531 | — | 8,026 |
| 1951 | 8,340 | 440 | — | 8,780 |
| 1952 | 7,382 | 476 | — | 7,858 |
| 1953 | 8,339 | 563 | — | 8,902 |
| 1954 | 9,148 | 732 | — | 9,880 |
| 1955 | 7,730 | 664 | — | 8,394 |
| 1956 | 7,908 | 716 | 183 | 8,807 |
| 1937 | 10,085 | 810 | 89 | 10,984 |
| 1958 | 10,544 | 869 | — | 11,413 |
| 1959 | 11,575 | 669 | — | 12,244 |
| 1960 | 10,798 | 882 | — | 11,680 |
| 1961 | 11,660 | 995 | 34 | 12,689 |
| 1962 | 13,223 | 1,286 | 6 | 14,515 |
| 1963 | 15,346 | 1,453 | 6 | 16,805 |
| 1964 | 13,500 | 1,359 | 20 | 14,879 |
| Total | 583,768 | 15,440 | 10,964 | 610,364 |

Figures to 1950 represent copper content of blister copper produced; from 1950 copper content of concentrates produced. Figures to 1942 represent estimated copper content of copper ores and concentrates; from 1942 to 1949 recoverable copper ntent of copper concentrates produced at Read-Rosebery; from 1950 copper content of concentrates produced at Read-sebery. [c] Includes production from the following district and localities: Burnie, Scamander, Mt. Balfour and Rossanden. gures from 1897 to 1906 are obtainable by substraction; in some years no further details are available. [d] Figures to 1950 e approximate only.

## COPPER PRODUCTION—SOUTH AUSTRALIA
(Copper content of ores, concentrates, etc.)

| Year | Wallaroo-Moonta | Kapunda | Burra-Burra | Blinman | Miscellaneous[a] | Total[b] |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1842 | — | — | — | — | — | 2 |
| 1843 | — | | — | — | — | 1 |
| 1844 | — | | — | — | — | 55 |
| | | 897 | | | | |
| 1845 | — | | e2,165 | — | — | 245 |
| 1846 | — | | | — | 50 | 1,615 |
| 1847 | — | | e1,920 | — | 143 | 2,290 |
| 1848 | — | 221 | e2,504 | — | 148 | 4,080 |
| 1849 | — | 472 | e3,207 | — | 153 | 2,580 |
| 1850 | — | 431 | e5,471 | — | | 4,700 |
| 1851 | — | 640 | e3,538 | — | | 4,020 |
| 1852 | — | 156 | e607 | — | | 4,510 |
| 1853 | — | 98 | e891 | — | 544 | 1,880 |
| 1854 | — | 201 | e1,510 | — | | 1,230 |
| 1855 | — | 496 | e2,299 | — | | 1,380 |
| 1856 | — | 496 | e2,411 | — | | 3,630 |
| 1957 | — | 574 | e2,646 | — | 38 | 4,260 |
| 1858 | — | 600 | e2,935 | — | 14 | 3,420 |
| 1859 | — | 687 | e3,128 | — | e165 | 3,840 |
| 1860 | | 694 | e2,692 | — | 48 | 4,450 |
| 1861 | | 587 | e2,218 | — | 39 | 4,710 |
| 1862 | | 478 | e1,944 | | 137 | 5,730 |
| 1863 | | 622 | e1,830 | | e282 | 5,730 |
| 1864 | | 633 | e1,503 | e1,000 | e316 | 7,130 |
| 1865 | | 497 | e698 | | e409 | 7,280 |
| 1866 | | | e1,210 | | | 9,000 |
| 1867 | | e832 | e1,109 | | e1,233 | 9,270 |
| 1868 | | | — | | | 7,900 |
| 1869 | | 27 | — | | e294 | 7,780 |
| | 104,822 | | | | | |
| 1870 | | 372 | — | | e243 | 7,870 |
| 1871 | | 433 | e233 | | 121 | 8,070 |
| 1872 | | 286 | e623 | e2,430 | | 8,820 |
| 1873 | | 325 | e747 | | | 9,150 |
| 1874 | | 289 | e633 | | e1,615 | 8,670 |
| 1875 | | 284 | e409 | | | 9,420 |
| 1876 | | 289 | e374 | | 144 | 8,460 |
| 1877 | | 305 | e166 | | 13 | 8,280 |
| 1878 | | 108 | — | — | — | 6,790 |
| 1879 | | 15 | — | — | — | 6,060 |
| 1880 | — | 44 | — | — | — | 5,580 |
| 1881 | — | 21 | — | | — | 6,750 |
| 1882 | — | 33 | — | e550 | — | 6,800 |
| 1883 | — | 18 | — | | — | 5,960 |
| 1884 | — | 24 | — | — | — | 8,690 |
| 1885 | — | 2 | — | — | — | 7,510 |
| 1886 | — | 4 | — | — | — | 5,770 |
| 1887 | — | 5 | | — | — | 5,230 |
| 1888 | — | 18 | | | — | 3,980 |
| 1889 | — | 14 | | | — | 3,940 |
| | | | | e600 | | |
| 1890 | | 5 | | | — | 4,590 |
| 1891 | | 6 | | | — | 4,620 |

[a] Includes Sliding Rock, Bremer and Kennants mines. [b] Close approximation only.

COPPER PRODUCTION—SOUTH AUSTRALIA—*continued*
(Copper content of ores, concentrates, etc.)

| Year | Wallaroo-Moonta | Kapunda | Burra-Burra | Blinman | Miscellaneous[a] | Total[b] |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1892 | | 19 | | [e]80 | — | 3,820 |
| 1893 | | 20 | | | — | 4,880 |
| 1894 | | 13 | | — | — | 5,340 |
| 1895 | | 10 | | — | — | 5,300 |
| 1896 | | 8 | | — | — | 4,730 |
| 1897 | | 11 | | — | — | 4,960 |
| 1898 | | 4 | | — | — | 4,790 |
| 1899 | | 15 | | — | — | 5,900 |
| | 152,092 | | | | | |
| 1900 | | 8 | | — | — | 5,330 |
| 1901 | | 7 | | — | — | 7,340 |
| 1902 | | 28 | [e]275 | — | — | 8,280 |
| 1903 | | 29 | | | — | 8,140 |
| 1904 | | 24 | | [e]5,000 | — | 6,900 |
| 1905 | | 25 | | | — | 6,590 |
| 1906 | | 32 | | | — | 8,208 |
| 1907 | | 12 | | | — | 7,931 |
| 1908 | | 6 | | | — | 5,628 |
| 1909 | 5,478 | 10 | | | — | 5,759 |
| 1910 | 4,774 | 8 | | | — | 5,102 |
| 1911 | 5,963 | 2 | | | — | 5,922 |
| 1912 | 6,253 | 1 | | [e]80 | — | 6,295 |
| 1913 | 6,702 | — | | | — | 7,161 |
| 1914 | 7,107 | — | — | | — | 6,881 |
| 1915 | 7,638 | — | — | | — | 7,725 |
| 1916 | 7,123 | — | — | | — | 7,279 |
| 1917 | — | — | — | | — | 7,213 |
| 1918 | | | | | | 7,169 |
| 1919 | | | | | | 2,517 |
| 1920 | | | | | | 4,339 |
| 1921 | | | | | | 1,532 |
| 1922 | | | | | | 1,185 |
| 1923 | | | | | | 3,523 |
| 1924 | | | | | | 405 |
| 1925 | | | | | | 570 |
| 1926 | | | | | | 231 |
| 1927 | | | | | | 201 |
| 1928 | | | Details not available from Annual Reports | | | 192 |
| 1929 | | | | | | 277 |
| 1930 | | | | | | 99 |
| 1931 | | | | | | 22 |
| 1932 | | | | | | — |
| 1933 | | | | | | 72 |
| 1934 | | | | | | 207 |
| 1935 | | | | | | 256 |
| 1936 | | | | | | 450 |
| 1937 | | | | | | 340 |
| 1938 | | | | | | 254 |
| 1939 | | | | | | 110 |
| 1940 | | | | | | 308 |
| 1941 | | | | | | 605 |

[a] Includes Sliding Rock, Bremer and Kennants mines. [b] Close approximation only.

COPPER PRODUCTION—SOUTH AUSTRALIA—*continued*
(Copper content of ores, concentrates, etc.)

| Year | Wallaroo-Moonta | Kapunda | Burra-Burra | Blinman | Miscellaneous[a] | Total[b] |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1942 | | | | | | 392 |
| 1943 | | | | | | 102 |
| 1944 | | | | | | 135 |
| 1945 | | | | | | 134 |
| 1946 | | | | | | — |
| 1947 | | | | | | — |
| 1948 | | | | | | 4 |
| 1949 | | | | | | 3 |
| 1950 | | | Details not available from Annual Reports | | | — |
| 1951 | | | | | | † |
| 1952 | | | | | | 2 |
| 1953 | | | | | | 1 |
| 1954 | | | | | | † |
| 1955 | | | | | | — |
| 1956 | | | | | | 1 |
| 1957 | | | | | | 2 |
| 1958 | | | | | | 1 |
| 1959 | | | | | | 16 |
| 1960 | | | | | | 5 |
| 1961 | | | | | | 2 |
| 1962 | | | | | | 2 |
| 1963 | | | | | | 5 |
| 1964 | | | | | | 11 |
| Total | — | — | — | — | — | 452,814 |

[a] Includes Sliding Rock, Bremer and Kennants mines. [b] Close approximation only.

COPPER PRODUCTION—WESTERN AUSTRALIA
(Copper content of ores, concentrates, etc.)

| Year | West Pilbara Goldfield | Phillips River Goldfield | Mt. Margaret Goldfield | Peak Hill Goldfield | Other Goldfields[a] | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| Total to end of 1898 | 1,086 | — | — | — | [e]1,760 | 2,846 |
| 1899 | 442 | — | 68 | — | 32 | 542 |
| 1900 | 225 | 10 | 403 | — | 2 | 640 |
| 1901 | 224 | 199 | 575 | — | 12 | 1,010 |
| 1902 | — | 23 | 125 | — | — | 148 |
| 1903 | — | 215 | 790 | — | — | 1,005 |
| 1904 | — | 485 | 20 | — | — | 505 |
| 1905 | — | 308 | 15 | — | — | 323 |
| 1906 | — | 287 | 575 | — | 43 | 905 |
| 1907 | 726 | 659 | 1,214 | — | 10 | 2,609 |
| 1908 | 306 | 183 | 668 | — | 65 | 1,222 |
| 1909 | 1,042 | 533 | — | — | 48 | 1,623 |
| 1910 | 1,081 | 1,685 | — | — | — | 2,766 |
| 1911 | 1,203 | 854 | — | — | — | 2,057 |
| 1912 | 1,483 | 219 | — | — | 1 | 1,703 |
| 1913 | 1,170 | 141 | — | — | — | 1,311 |
| 1914 | 639 | 613 | — | 47 | 13 | 1,312 |
| 1915 | 55 | 426 | — | 102 | 81 | 664 |
| 1916 | 167 | 483 | — | 73 | 11 | 734 |
| 1917 | 128 | 541 | — | 86 | 32 | 787 |
| 1918 | 289 | 374 | — | 25 | 27 | 715 |
| 1919 | 186 | 53 | — | 5 | 3 | 247 |
| 1920 | 314 | 44 | — | 14 | — | 372 |
| 1921 | 273 | 18 | — | — | — | 291 |
| 1922 | 37 | 4 | — | — | 209 | 250 |
| 1923 | 50 | 8 | — | — | 883 | 941 |
| 1924 | 17 | 1 | — | — | 554 | 572 |
| 1925 | — | — | — | — | 138 | 138 |
| 1926 | — | — | — | — | — | — |
| 1927 | — | — | — | — | — | — |
| 1928 | 6 | — | — | — | — | 6 |
| 1929 | — | 6 | — | — | 12 | 18 |
| 1930 | — | — | — | — | — | — |
| 1931 | — | — | — | — | — | — |
| 1932 | — | — | — | — | — | — |
| 1933 | — | — | — | — | — | — |
| 1934 | — | — | — | — | — | — |
| 1935 | — | — | — | — | — | — |
| 1936 | — | — | — | — | — | — |
| 1937 | — | — | — | — | — | — |
| 1938 | — | 3 | — | — | 3 | 6 |
| 1939 | — | — | — | — | † | † |
| 1940 | — | 3 | — | 2 | 2 | 7 |
| 1941 | — | 1 | — | — | 1 | 2 |
| 1942 | — | 3 | — | 2 | 2 | 7 |
| 1943 | — | — | — | — | † | † |
| 1944 | — | 1 | — | 10 | 5 | 16 |

[a] Other Goldfields includes Ashburton, East Murchison, Murchison, Mt. Margaret, Broad Arrow, Dundas, Gascoyne and Yalgoo.

COPPER PRODUCTION—WESTERN AUSTRALIA—*continued*
(Copper content of ores, concentrates, etc.)

| Year | West Pilbara Goldfield | Phillips River Goldfield | Mt. Margaret Goldfield | Peak Hill Goldfield | Other Goldfields[a] | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1945 | — | — | — | 30 | 6 | 36 |
| 1946 | — | 1 | — | 6 | — | 7 |
| 1947 | — | — | — | 42 | — | 42 |
| 1948 | — | — | — | 29 | — | 29 |
| 1949 | 12 | 1 | — | 16 | 1 | 30 |
| 1950 | 62 | 2 | 2 | 21 | 1 | 88 |
| 1951 | 94 | 7 | 1 | 6 | 33 | 141 |
| 1952 | 88 | 6 | 1 | 41 | 47 | 183 |
| 1953 | 74 | 6 | 1 | 11 | 92 | 184 |
| 1954 | 194 | 9 | 5 | 33 | 155 | 396 |
| 1955 | 211 | 5 | 7 | 178 | 237 | 638 |
| 1956 | 118 | 9 | 5 | 250 | 327 | 709 |
| 1957 | 79 | 96 | 1 | 163 | 454 | 793 |
| 1958 | 28 | 439 | — | 359 | 281 | 1,107 |
| 1959 | 29 | 1,103 | 1 | 494 | 570 | 2,197 |
| 1960 | 1 | 920 | 2 | 330 | 408 | 1,661 |
| 1961 | 18 | 1,472 | 11 | 332 | 373 | 2,206 |
| 1962 | 53 | 979 | 12 | 256 | 188 | 1,488 |
| 1963 | 176 | 1,372 | 12 | 200 | 159 | 1,919 |
| 1964 | 211 | 1,004 | 4 | 144 | 150 | 1,513 |
| Total | 12,597 | 15,814 | 4,518 | 3,307 | 7,431 | 43,667 |

[a] Other Goldfields includes Ashburton, East Murchison, Murchison, Mt. Margaret, Broad Arrow, Dundas, Gascoyne and Yalgoo.

## COPPER PRODUCTION— NORTHERN TERRITORY
(Copper content of ores, concentrates, etc.)

| Year | Daly River | Rum Jungle | Tennant Creek | Barrow Creek and Jervois Range | Others | Total[a] |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1885 | e263 | — | — | — | — | — |
| 1886 | 560 | — | — | — | — | 202 |
| 1887 | 106 | — | — | — | — | 141 |
| 1888 | e178 | — | — | — | — | 20 |
| 1889 | — | — | — | — | — | 219 |
| 1890 | 151 | — | — | — | — | 101 |
| 1891 | — | — | — | — | — | 67 |
| 1892 | e42 | — | — | — | — | 20 |
| 1893 | — | — | — | — | — | 34 |
| 1894 | — | — | — | — | — | 40 |
| 1895 | — | — | — | — | — | 13 |
| 1896 | — | — | — | — | — | — |
| 1897 | — | — | — | — | — | — |
| 1898 | — | — | — | — | — | 25 |
| 1899 | — | — | — | — | — | — |
| 1900 | — | — | — | — | — | 109 |
| 1901 | — | — | — | — | — | 120 |
| 1902 | — | — | — | — | — | 35 |
| 1903 | — | — | — | — | 1 | 1 |
| 1904 | e42 | — | — | — | 6 | 296 |
| 1905 | e2 | — | — | — | 9 | 220 |
| 1906 | e39 | — | — | — | 16 | 324 |
| 1907 | e29 | 8 | — | — | 222 | 226 |
| 1908 | e73 | — | — | — | 98 | 158 |
| 1909 | e14 | — | — | — | 15 | 43 |
| 1910 | e23 | — | — | — | 4 | 118 |
| 1911 | e39 | — | — | — | 2 | 41 |
| 1912 | e50 | — | — | — | 44 | 94 |
| 1913 | — | — | — | — | 3 | e8 |
| 1914 | — | — | — | — | — | — |
| 1915 | 50 | — | — | — | 250 | 300 |
| 1916 | — | — | — | — | 70 | e70 |
| 1917 | — | — | — | — | 16 | e44 |
| 1918 | e11 | — | — | — | 84 | e84 |
| 1919 | — | — | — | — | — | e26 |
| 1920 | — | — | — | — | 17 | 17 |
| 1921 | — | — | — | — | 8 | 8 |
| 1922 | — | — | — | — | 15 | 15 |
| 1923 | — | — | — | — | 1 | 1 |
| 1924 | — | — | — | — | — | 8 |
| 1925 | — | — | — | — | † | † |
| 1926 | — | — | — | — | 2 | 2 |
| 1927 | — | — | — | — | — | — |
| 1928 | — | — | — | — | — | — |
| 1929 | — | — | — | — | — | — |
| 1930 | — | — | — | — | 15 | 15 |

[a] Recorded exports 1885–1910; not in agreement with previous columns. [b] Includes production in 1955.

COPPER PRODUCTION—NORTHERN TERRITORY—*continued*
(Copper content of ores, concentrates, etc.)

| Year | Daly River | Rum Jungle | Tennant Creek | Barrow Creek and Jervois Range | Others | Total[a] |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1931 | — | — | — | † | † | † |
| 1932 | — | — | — | — | 4 | 4 |
| 1933 | — | — | — | — | † | † |
| 1934 | — | — | — | — | — | — |
| 1935 | — | — | — | — | — | — |
| 1936 | — | — | — | [e]22 | 27 | 49 |
| 1937 | — | — | — | — | 2 | 2 |
| 1938 | — | — | — | — | 47 | 47 |
| 1939 | — | — | — | — | 24 | 24 |
| 1940 | — | — | — | — | 16 | 16 |
| 1941 | — | — | — | — | — | 75 |
| 1942 | — | — | — | — | 3 | 3 |
| 1943 | — | — | — | [e]10 | 14 | 24 |
| 1944 | — | — | — | [e]19 | — | 19 |
| 1945 | — | — | — | [e]23 | — | 23 |
| 1946 | — | — | — | [e]44 | 19 | 63 |
| 1947 | — | — | — | — | — | — |
| 1948 | — | — | — | [e]52 | 21 | 73 |
| 1949 | — | — | — | 919 | 3 | 922 |
| 1950 | — | — | — | 287 | 26 | 313 |
| 1951 | — | — | 9 | 157 | 27 | 193 |
| 1952 | — | — | 147 | 255 | 26 | 428 |
| 1953 | — | — | 40 | 25 | 23 | 88 |
| 1954 | — | — | 568 | 4 | 26 | 592 |
| 1955 | — | n.a. | 2,737 | 113 | 19 | [i]2,869 |
| 1956 | — | [b]896 | 4,857 | 108 | 37 | [b]5,898 |
| 1957 | — | 1,854 | 6,621 | 60 | 56 | 8,591 |
| 1958 | — | 1,450 | 7,197 | 2 | 11 | 8,660 |
| 1959 | — | 2,519 | 7,426 | 4 | 4 | 9,953 |
| 1960 | — | 2,509 | 7,250 | — | 5 | 9,764 |
| 1961 | — | 3,021 | 7,608 | 1 | 22 | 10,652 |
| 1962 | — | 732 | 7,224 | — | 12 | 7,968 |
| 1963 | — | — | 7,147 | — | — | 7,147 |
| 1964 | — | 806 | 9,123 | — | 2 | 9,931 |
| Total | 1,672 | 13,790 | 67,954 | 2,105 | 1,374 | 87,656 |

[a] Recorded exports 1885–1910; not in agreement with previous columns. [b] Includes production in 1955.

## COPPER CONTENT OF ORES AND CONCENTRATES USED FOR FERTILIZER PURPOSES—AUSTRALIA

| Year | Tasmania | South Australia | Western Australia | | | | | Northern Territory | Total |
|---|---|---|---|---|---|---|---|---|---|
| | | | West Pilbara | Peak Hill | Pilbara | Others | Total | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1944 | — | — | — | 10 | — | — | 10 | — | 10 |
| 1945 | — | — | — | 30 | — | — | 30 | — | 30 |
| 1946 | — | — | — | 6 | — | — | 6 | — | 6 |
| 1947 | — | — | — | 42 | — | — | 42 | — | 42 |
| 1948 | — | 4 | — | 29 | — | — | 29 | — | 29 |
| 1949 | — | 3 | 12 | 12 | — | 1 | 25 | 74 | 99 |
| 1950 | — | — | 62 | 21 | — | 4 | 87 | 39 | 126 |
| 1951 | — | † | 93 | 6 | — | 34 | 133 | 42 | 175 |
| 1952 | — | 2 | 82 | 41 | 6 | 47 | 176 | 109 | 287 |
| 1953 | — | 1 | 63 | 11 | — | 95 | 169 | 3 | 173 |
| 1954 | 254 | † | 194 | 33 | 55 | 114 | 396 | 4 | 654 |
| 1955 | 619 | — | 211 | 178 | 126 | 123 | 638 | — | 1,257 |
| 1956 | 122 | 1 | 118 | 223 | 232 | 90 | 663 | 2 | 788 |
| 1957 | — | 2 | 30 | 132 | 232 | 75 | 469 | 7 | 478 |
| 1958 | — | 1 | 27 | 349 | 205 | 106 | 687 | 2 | 690 |
| 1959 | — | 16 | 29 | 494 | 534 | 47 | 1,104 | — | 1,120 |
| 1960 | — | 5 | 1 | 330 | 331 | 88 | 750 | — | 755 |
| 1961 | — | 2 | 18 | 332 | 291 | 88 | 729 | — | 731 |
| 1962 | — | 2 | — | 256 | 53 | 153 | 462 | — | 464 |
| 1963 | — | 5 | 145 | 200 | 31 | 80 | 456 | — | 461 |
| 1964 | — | 11 | 152 | 144 | 59 | 40 | 395 | — | 406 |

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# DIATOMITE

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## DIATOMITE PRODUCTION—AUSTRALIA
(Recorded production only)

| Year | Queensland | New South Wales | Victoria | Western Australia (Lake Gnangarra) | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1896 | — | [e]39 | — | — | [e]39 |
| 1897–99 | — | — | — | — | — |
| 1900 | — | [e]7 | [b]460 | — | 467 |
| 1901 | — | — | 300 | — | 300 |
| 1902 | — | 30 | 400 | — | 430 |
| 1903 | — | — | 400 | — | 400 |
| 1904 | — | — | — | — | — |
| 1905 | — | — | 48 | — | 48 |
| 1906 | — | — | 280 | — | 280 |
| 1907 | — | 15 | 155 | — | 170 |
| 1908 | — | — | 150 | — | 150 |
| 1909 | — | — | 800 | — | 800 |
| 1910 | — | 57 | 500 | — | 557 |
| 1911 | — | 25 | 400 | — | 425 |
| 1912 | — | 31 | 850 | — | 881 |
| 1913 | — | 25 | 150 | — | 175 |
| 1914 | — | 25 | 1,000 | — | 1,025 |
| 1915 | — | 146 | 274 | — | 420 |
| 1916 | — | 235 | [a] | — | 235 |
| 1917 | — | 140 | 750 | — | 890 |
| 1918 | — | 20 | 140 | — | 160 |
| 1919 | — | 88 | 156 | — | 244 |
| 1920 | — | 384 | 1,000 | — | 1,384 |
| 1921 | — | 206 | — | — | 206 |
| 1922 | — | 481 | — | — | 481 |
| 1923 | — | 515 | [a] | — | 515 |
| 1924 | — | 564 | [a] | — | 564 |
| 1925 | — | 701 | [a] | — | 701 |
| 1926 | — | 911 | [a] | — | 911 |
| 1927 | — | 1,210 | [a] | — | 1,210 |
| 1928 | — | 1,360 | [a] | — | 1,360 |
| 1929 | — | 1,107 | [c]787 | — | [c]1,894 |
| 1930 | — | 1,240 | — | — | 1,240 |
| 1931 | — | 1,067 | — | — | 1,067 |
| 1932 | — | 1,334 | — | — | 1,334 |
| 1933 | — | 1,941 | 884 | — | 2,825 |
| 1934 | — | 2,602 | 753 | — | 3,355 |
| 1935 | — | 2,712 | 302 | — | 3,014 |
| 1936 | 371 | 2,303 | 104 | — | 2,778 |
| 1937 | 93 | 2,997 | 100 | — | 3,190 |
| 1938 | 51 | 3,451 | 190 | — | 3,692 |
| 1939 | 12 | 3,008 | 282 | — | 3,302 |
| 1940 | 25 | 3,477 | 519 | — | 4,021 |
| 1941 | 55 | 4,852 | 335 | — | 5,242 |

[a] No record. [b] Total to end of 1900. [c] Adjustment made in total production to end of 1929 after discussion with Victorian Mines Department. Actual Australian production for year, 1,107 tons. [d] Estimated quantity of raw diatomite from which 30 tons of processed diatomite were obtained. [f] From Wanneroo.

DIATOMITE PRODUCTION—AUSTRALIA—*continued*
(Recorded production only)

| Year | Queensland | New South Wales | Victoria | Western Australia (Lake Gnangarra) | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1942 | 144 | 3,684 | 414 | [d]41 | 4,242 |
| 1943 | 124 | 2,747 | 1,164 | 55 | 4,090 |
| 1944 | 37 | 2,440 | 1,128 | — | 3,605 |
| 1945 | 29 | 2,230 | 829 | — | 3,088 |
| 1946 | 109 | 3,735 | 1,113 | — | 4,957 |
| 1947 | 59 | 4,366 | 1,113 | 5 | 5,543 |
| 1948 | 40 | 2,978 | 1,420 | — | 4,438 |
| 1949 | 403 | 2,752 | 854 | 540 | 4,549 |
| 1950 | 887 | 4,641 | 700 | — | 6,228 |
| 1951 | 400 | 7,182 | 752 | 198 | 8,532 |
| 1952 | 450 | 4,655 | 1,161 | — | 6,266 |
| 1953 | 100 | 3,671 | 669 | — | 4,440 |
| 1954 | 676 | 3,708 | 905 | [f]150 | 5,439 |
| 1955 | 531 | 3,629 | 882 | — | 5,042 |
| 1956 | 77 | 5,002 | 710 | — | 5,789 |
| 1957 | 54 | 4,966 | 1,201 | — | 6,221 |
| 1958 | 29 | 3,100 | 1,111 | — | 4,240 |
| 1959 | — | 4,409 | 680 | — | 5,089 |
| 1960 | — | 3,941 | 718 | — | 4,659 |
| 1961 | 579 | 4,331 | 551 | — | 5,461 |
| 1962 | 2,209 | 4,318 | 770 | [g]15 | 7,312 |
| 1963 | 1,800 | 2,837 | 496 | — | 5,133 |
| 1964 | 4,800 | 3,261 | 671 | — | 8,732 |
| Total | 14,144 | 127,889 | 32,481 | 1,004 | 175,518 |

[a] No record. [b] Total to end of 1900. [c] Adjustment made in total production to end of 1929 after discussion with Victorian Mines Department. Actual Australian production for year, 1,107 tons. [d] Estimated quantity of raw diatomite from which 30 tons of processed diatomite were obtained. [f] From Wanneroo. [g] Calcined.

DIATOMITE—EXPORTS AND IMPORTS—AUSTRALIA

| EXPORTS | | | IMPORTS | | |
|---|---|---|---|---|---|
| Year | tons | £ | Year | tons | £ |
| 1946 | 65 | 931 | [a]1946 | 699 | 10,340 |
| 1947 | 168 | 5,793 | 1947 | 1,495 | 20,673 |
| 1948 | 144 | 3,469 | 1948 | 572 | 9,556 |
| 1949 | 85 | 2,195 | 1949 | 1,275 | 22,768 |
| 1950 | 136 | 3,792 | 1950 | 1,651 | 40,618 |
| 1951 | 89 | 2,004 | 1951 | 1,430 | 41,636 |
| 1952 | 90 | 3,591 | 1952 | 835 | 24,525 |
| 1953 | 152 | 5,097 | 1953 | 2,179 | 62,030 |
| 1954 | n.a. | n.a. | 1954 | 2,433 | 70,088 |
| 1955 | n.a. | n.a. | 1955 | 4,823 | 158,752 |
| 1956 | 46 | 1,873 | 1956 | 4,394 | 135,884 |
| 1957 | 26 | 1,441 | 1957 | 3,856 | 117,704 |
| 1958 | 46 | 1,241 | 1958 | 3,736 | 118,455 |
| 1959 | 1 | 69 | 1959 | 4,502 | 144,786 |
| 1960 | [b] | [b] | 1960 | 4,150 | 122,667 |
| 1961 | [b] | [b] | 1961 | 4,071 | 124,159 |
| 1962 | [b] | [b] | 1962 | 4,191 | 135,933 |
| 1963 | [b] | [b] | 1963 | 4,368 | 138,786 |
| 1964 | [b] | [b] | 1964 | 5,242 | 177,644 |

[a] Year ended 30th June. [b] Not recorded as a separate item as from 1st July, 1960.

# DIATOMITE

## DIATOMITE PRODUCTION—QUEENSLAND

| Year | Toowoomba District (Gatton) | Brisbane District (Canungra) | Total |
|---|---|---|---|
| | tons | tons | tons |
| 1936 | 356 | 15 | 371 |
| 1937 | 93 | — | 93 |
| 1938 | 51 | — | 51 |
| 1939 | 12 | — | 12 |
| 1940 | 25 | — | 25 |
| 1941 | 55 | — | 55 |
| 1942 | 144 | — | 144 |
| 1943 | 124 | — | 124 |
| 1944 | 37 | — | 37 |
| 1945 | 29 | — | 29 |
| 1946 | 109 | — | 109 |
| 1947 | 59 | — | 59 |
| 1948 | 40 | — | 40 |
| 1949 | 403 | — | 403 |
| 1950 | 887 | — | 887 |
| 1951 | 400 | — | 400 |
| 1952 | 450 | — | 450 |
| 1953 | 100 | — | 100 |
| 1954 | 676 | — | 676 |
| 1955 | 531 | — | 531 |
| 1956 | 77 | — | 77 |
| 1957 | 54 | — | 54 |
| 1958 | 29 | — | 29 |
| 1959–60 | — | — | — |
| 1961 | 579 | — | 579 |
| 1962 | 2,209 | — | 2,209 |
| 1963 | 1,800 | — | 1,800 |
| 1964 | 4,800 | — | 4,800 |
| Total | 14,129 | 15 | 14,144 |

DIATOMITE PRODUCTION—NEW SOUTH WALES

| Year | Cooma District (Bunyan) | Barraba District (Bell's Mountain, etc.) | Coona-barabran District (Bugaldi and Yearinan) | Ballina District (Tintenbar) | Mis-cellaneous | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1896 | [b] | — | — | — | [e]39 | [e]39 |
| 1897–9 | — | — | — | — | — | — |
| 1900 | — | — | — | — | [e]7 | [e]7 |
| 1901 | — | — | — | — | — | — |
| 1902 | — | — | — | — | 30 | 30 |
| 1903–6 | — | — | — | — | — | — |
| 1907 | 15 | — | — | — | — | 15 |
| 1908–9 | — | — | — | — | — | — |
| 1910 | 57 | — | — | — | — | 57 |
| 1911 | 25 | — | — | — | — | 25 |
| 1912 | 31 | — | — | — | — | 31 |
| 1913 | 25 | — | — | — | — | 25 |
| 1914 | 25 | — | — | — | — | 25 |
| 1915 | 146 | — | — | — | — | 146 |
| 1916 | 227 | — | — | — | 8 | 235 |
| 1917 | 110 | 30 | — | — | — | 140 |
| 1918 | — | 20 | — | — | — | 20 |
| 1919 | 88 | — | [b] | — | — | 88 |
| 1920 | 241 | 110 | — | 14 | 19 | 384 |
| 1921 | 117 | 89 | — | — | — | 206 |
| 1922 | 86 | 63 | 320 | 12 | — | 481 |
| 1923 | 40 | 147 | 327 | — | 1 | 515 |
| 1924 | — | 64 | 500 | — | — | 564 |
| 1925 | 12 | 250 | 439 | — | — | 701 |
| 1926 | 49 | 434 | 427 | — | [e]1 | 911 |
| 1927 | — | 400 | 810 | — | — | 1,210 |
| 1928 | 69 | 600 | 691 | — | — | 1,360 |
| 1929 | — | 300 | 807 | — | — | 1,107 |
| 1930 | 5 | 350 | 885 | — | — | 1,240 |
| 1931 | — | 275 | 768 | 24 | — | 1,067 |
| 1932 | — | 302 | 974 | 59 | — | 1,334 |
| 1933 | — | 521 | 1,242 | 97 | — | [a]1,941 |
| 1934 | — | 650 | 1,890 | 50 | — | [a]2,602 |
| 1935 | — | 740 | 1,895 | 77 | — | 2,712 |
| 1936 | — | 570 | 1,724 | — | 9 | 2,303 |
| 1937 | — | 455 | 2,430 | 112 | — | 2,997 |
| 1938 | — | 600 | 2,419 | 138 | — | [a]3,451 |
| 1939 | — | 500 | 2,455 | 52 | — | 3,008 |
| 1940 | 188 | 711 | 2,494 | 84 | — | 3,477 |
| 1941 | 29 | 1,784 | 2,573 | 134 | 332 | 4,852 |
| 1942 | — | 1,383 | 2,194 | 2 | 105 | 3,684 |
| 1943 | — | 878 | 1,869 | — | — | 2,747 |
| 1944 | — | 811 | 1,629 | — | — | 2,440 |
| 1945 | — | 403 | 1,827 | — | — | 2,230 |
| 1946 | 32 | 1,117 | 2,586 | — | — | 3,735 |
| 1947 | 201 | 959 | 3,206 | — | — | 4,366 |

[a] Total production not accounted for in previous columns. [b] Small quantity.

DIATOMITE PRODUCTION—NEW SOUTH WALES—*continued*

| Year | Cooma District (Bunyan) | Barraba District (Bell's Mountain, etc.) | Coona-barabran District (Bugaldi and Yearinan) | Ballina District (Tintenbar) | Mis-cellaneous | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1948 | 120 | 876 | 1,982 | — | — | 2,978 |
| 1949 | 44 | 750 | 1,878 | — | 80 | 2,752 |
| 1950 | 156 | 1,179 | 2,949 | 306 | 51 | 4,641 |
| 1951 | — | 620 | 5,784 | 714 | 63 | 7,182 |
| 1952 | — | 1,240 | 3,017 | 398 | — | 4,655 |
| 1953 | — | 824 | 2,641 | 205 | — | 3,671 |
| 1954 | — | 1,347 | 2,105 | 256 | — | 3,708 |
| 1955 | — | 1,297 | 2,241 | 71 | 20 | 3,629 |
| 1956 | — | 2,294 | 2,708 | — | — | 5,002 |
| 1957 | — | 2,473 | 2,456 | 22 | 15 | 4,966 |
| 1958 | — | 1,515 | 1,585 | — | — | 3,100 |
| 1959 | — | 1,009 | 3,400 | — | — | 4,409 |
| 1960 | — | 853 | 3,088 | — | — | 3,941 |
| 1961 | — | 1,159 | 3,172 | — | — | 4,331 |
| 1962 | — | 2,179 | 2,139 | — | — | 4,318 |
| 1963 | — | 1,300 | 1,524 | 13 | — | 2,837 |
| 1964 | — | 1,939 | 1,322 | — | — | 3,261 |
| Total | 2,113 | 38,370 | 83,373 | 2,840 | 780 | 127,889 |

[a] Total production not accounted for in previous columns. [b] Small quantity.

DIATOMITE PRODUCTION—VICTORIA

| Year | Lillicur | Portland | Moranding | Newham | Linton and Redesdale | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| Prior to 1901 | 460 | — | — | — | — | 460 |
| 1901 | 300 | — | — | — | — | 300 |
| 1902 | 400 | — | — | — | — | 400 |
| 1903 | 400 | — | — | — | — | 400 |
| 1904 | — | — | — | — | — | — |
| 1905 | 48 | — | — | — | — | 48 |
| 1906 | 280 | — | — | — | — | 280 |
| 1907 | 155 | — | — | — | — | 155 |
| 1908 | 150 | — | — | — | — | 150 |
| 1909 | 800 | — | — | — | — | 800 |
| 1910 | 500 | — | — | — | — | 500 |
| 1911 | 400 | — | — | — | — | 400 |
| 1912 | 850 | — | — | — | — | 850 |
| 1913 | 100 | 50 | — | — | — | 150 |
| 1914 | 1,000 | — | — | — | — | 1,000 |
| 1915 | 274 | — | — | — | — | 274 |
| 1916 | — | — | — | — | — | [a] |
| 1917 | 750 | — | — | — | — | 750 |
| 1918 | 140 | — | — | — | — | 140 |
| 1919 | 156 | — | — | — | — | 156 |
| 1920 | 1,000 | — | — | — | — | 1,000 |
| 1921–28 | [a] | — | — | — | — | [a] |
| 1929 | [b]787 | — | — | — | — | [b]787 |
| 1930–32 | [a] | — | — | — | — | [a] |
| 1933 | 884 | — | — | — | — | 884 |
| 1934 | 753 | — | — | — | — | 753 |
| 1935 | 302 | — | — | — | — | 302 |
| 1936 | 104 | — | — | — | — | 104 |
| 1937 | 100 | — | — | — | — | 100 |
| 1938 | — | — | 190 | — | — | 190 |
| 1939 | [a] | — | 282 | — | — | 282 |
| 1940 | — | — | 519 | — | — | 519 |
| 1941 | — | — | 335 | — | — | 335 |
| 1942 | 42 | — | 372 | [a] | — | [d]414 |
| 1943 | [a] | 200 | 348 | 500 | [f]116 | 1,164 |
| 1944 | 300 | — | 278 | 550 | — | 1,128 |
| 1945 | 300 | — | 99 | 430 | — | 829 |
| 1946 | 448 | — | 88 | 562 | [h]15 | 1,113 |
| 1947 | 326 | — | 214 | 553 | [h]20 | 1,113 |
| 1948 | 353 | — | 311 | 470 | 286 | 1,420 |
| 1949 | — | — | 209 | 405 | 240 | 854 |
| 1950 | — | — | 255 | 227 | 218 | 700 |
| 1951 | — | — | 250 | 211 | 291 | 752 |
| 1952 | — | — | 744 | 78 | 339 | 1,161 |

[a] No record. [b] Adjustment made in total production to end of 1929 after discussion with Victorian Mines Department. [c] As recorded in Annual Reports, Victorian Mines Department. Figures incomplete since production recorded only for areas held under mining title. [d] It is believed that an additional 200 tons were produced from Lillicur and over 500 tons from Newham in 1942. [f] Linton, Redesdale. [g] 120 tons, Linton: 166 tons, Redesdale. [h] Combined production from Kilmore and Lillicur.

DIATOMITE PRODUCTION—VICTORIA—*continued*

| Year | Lillicur | Portland | Moranding | Newham | Linton and Redesdale | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1953 | 71 | — | 177 | — | 421 | 669 |
| 1954 | 55 | — | 508 | 18 | 324 | 905 |
| 1955 | 101 | — | 408 | — | 373 | 882 |
| 1956 | [h] | — | [h]468 | — | 242 | 710 |
| 1957 | [h] | — | [h]1,030 | — | 171 | 1,201 |
| 1958 | 992 | — | 15 | — | 104 | 1,111 |
| 1959 | 475 | — | — | 60 | 145 | 680 |
| 1960 | 520 | — | — | 119 | 79 | 718 |
| 1961 | 389 | — | — | 99 | 63 | 551 |
| 1962 | 546 | — | — | 155 | 69 | 770 |
| 1963 | 248 | — | — | 107 | 141 | 496 |
| 1964 | 614 | — | — | — | 82 | 696 |
| Total | 16,873 | 250 | 7,100 | 4,544 | 3,739 | 32,506 |

[a] No record. [b] Adjustment made in total production to end of 1929 after discussion with Victorian Mines Department. [c] As recorded in Annual Reports, Victorian Mines Department. Figures incomplete since production recorded only for areas held under mining title. [d] It is believed that an additional 200 tons were produced from Lillicur and over 500 tons from Newham in 1942. [f] Linton, Redesdale. [g] 120 tons, Linton: 166 tons, Redesdale. [h] Combined production from Kilmore and Lillicur.

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# FELSPAR

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Felspar and Chinastone Production—South Australia .. .. .. .. 159

Felspar Production—Western Australia .. .. .. .. .. .. 160

FELSPAR PRODUCTION—AUSTRALIA

| Year | New South Wales | Victoria Koetong | South Australia | Western Australia | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1909 | — | — | 10 | — | 10 |
| 1910 | — | — | 6 | — | 6 |
| 1911–16 | — | — | — | — | — |
| 1917 | 46 | — | — | — | 46 |
| 1918 | — | — | — | — | — |
| 1919 | — | — | 80 | — | 80 |
| 1920 | — | — | 34 | — | 34 |
| 1921 | 25 | — | 7 | 1 | 33 |
| 1922 | 25 | — | — | 60 | 85 |
| 1923 | 13 | — | 20 | — | 33 |
| 1924 | 15 | — | — | — | 15 |
| 1925 | 32 | — | 10 | — | 42 |
| 1926 | 11 | — | 103 | 8 | 122 |
| 1927 | 16 | — | 92 | — | 108 |
| 1928 | 48 | — | 113 | — | 161 |
| 1929 | 57 | — | 58 | 21 | 136 |
| 1930 | 85 | — | — | — | 85 |
| 1931 | 101 | — | — | — | 101 |
| 1932 | 581 | — | 64 | 413 | 1,058 |
| 1933 | 2,007 | — | 110 | 444 | 2,561 |
| 1934 | 877 | — | 209 | 193 | 1,279 |
| 1935 | 193 | — | 309 | 4,208 | 4,710 |
| 1936 | 99 | — | 544 | 2,840 | 3,483 |
| 1937 | 159 | — | 658 | 2,900 | 3,717 |
| 1938 | 175 | — | 494 | 2,873 | 3,542 |
| 1939 | 50 | — | 605 | 3,792 | 4,447 |
| 1940 | 63 | 10 | 1,055 | 3,505 | 4,633 |
| 1941 | 445 | 68 | 1,064 | 4,107 | 5,684 |
| 1942 | 1,446 | 172 | 1,010 | 3,251 | 5,879 |
| 1943 | 3,828 | 57 | 514 | 2,313 | 6,712 |
| 1944 | 4,681 | 141 | 805 | 1,959 | 7,586 |
| 1945 | 3,725 | 214 | 940 | 1,235 | 6,114 |
| 1946 | 4,767 | — | 1,296 | 1,793 | 7,856 |
| 1947 | 5,278 | — | 1,927 | 1,226 | 8,431 |
| 1948 | 6,418 | — | 2,184 | 1,011 | 9,613 |
| 1949 | 7,270 | — | 2,433 | 1,049 | 10,752 |
| 1950 | 8,104 | — | 3,541 | 1,421 | 13,066 |
| 1951 | 9,035 | — | 4,000 | 1,807 | 14,842 |
| 1952 | 6,467 | — | 4,619 | 2,504 | 13,590 |
| 1953 | 3,349 | — | 1,407 | 2,127 | 6,883 |
| 1954 | 9,538 | — | 3,620 | 3,226 | 16,384 |
| 1955 | 11,608 | — | 5,660 | 3,565 | 20,833 |
| 1956 | 10,244 | — | 4,604 | 3,781 | 18,629 |
| 1957 | 6,254 | — | 1,565 | 995 | [a]8,819 |
| 1958 | 5,302 | — | 1,033 | 681 | 7,016 |
| 1959 | 4,700 | — | 654 | 1,396 | 6,750 |
| 1960 | 5,325 | — | 1,147 | 1,942 | 8,414 |
| 1961 | 5,378 | — | 1,641 | 1,190 | 8,209 |
| 1962 | 5,925 | — | 1,321 | 1,267 | 8,513 |
| 1963 | 6,690 | — | 1,160 | 992 | 8,842 |
| 1964 | 6,136 | — | 1,490 | 1,386 | 9,012 |
| Total | 146,591 | 662 | 54,216 | 67,482 | 268,956 |

[a] Included 5 tons from Nanango, Queensland.

# FELSPAR

## FELSPAR—EXPORTS[a]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1947–48 | 81 | 1,056 | 1954 | 183 | 3,970 |
| 1948–49 | 220 | 3,082 | | | |
| | | | 1955 | 220 | 6,577 |
| 1950 | 388 | 3,096 | 1956 | 357 | 8,659 |
| 1951 | 462 | 2,762 | 1957 | — | — |
| 1952 | 982 | 7,728 | 1958 | 10 | 257 |
| 1953 | 45 | 1,505 | 1959 | [b] | [b] |

[a] Not recorded as a separate item prior to 1st July, 1947.
[b] Ceased to be a separate item as from 1st July, 1959.

## FELSPAR—IMPORTS[a]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1930–31 | 293 | 2,468 | 1943–44 | 99 | 913 |
| 1931–32 | 261 | 740 | 1944–45 | — | — |
| 1932–33 | 394 | 1,524 | | | |
| 1933–34 | 822 | 3,320 | 1945–46 | † | 2 |
| 1934–35 | 463 | 2,198 | 1946–47 | 7 | 71 |
| | | | 1947–48 | 35 | 262 |
| 1935–36 | 721 | 3,939 | 1948–49 | 93 | 743 |
| 1936–37 | 590 | 3,393 | | | |
| 1937–38 | 581 | 2,831 | 1950 | 273 | 2,408 |
| 1938–39 | 441 | 2,101 | 1951 | 356 | 3,899 |
| 1939–40 | 274 | 1,912 | 1952 | 332 | 3,804 |
| | | | 1953 | 135 | 1,793 |
| 1940–41 | 36 | 633 | 1954 | 60 | 813 |
| 1941–42 | 31 | 496 | | | |
| 1942–43 | † | 1 | 1955–64 | n.r.s. | n.r.s. |

[a] Not recorded as a separate item prior to 1st July, 1930.

## FELSPAR PRODUCTION—NEW SOUTH WALES

| Year | Lithgow District | | | Bathurst District | | | Eden District Ph. Nalbaugh | Broken Hill District | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | Hartley Vale | South Bowenfels etc. | Tarana | Ph. Bathurst | Ph. Thornehope | Brewongle | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1917 | 21 | — | — | — | — | — | — | — | 25 | 46 |
| 1918–20 | — | — | — | — | — | — | — | — | — | — |
| 1921 | 25 | — | — | — | — | — | — | — | — | 25 |
| 1922 | 25 | — | — | — | — | — | — | — | — | 25 |
| 1923 | — | — | — | 13 | — | — | — | — | — | 13 |
| 1924 | 15 | — | — | — | — | — | — | — | — | 15 |
| 1925 | — | — | — | — | — | 32 | — | — | — | 32 |
| 1926 | — | — | — | — | — | 11 | — | — | — | 11 |
| 1927 | — | — | — | — | — | 16 | — | — | — | 16 |
| 1928 | — | — | — | — | — | 48 | — | — | — | 48 |
| 1929 | — | 18 | — | — | — | [a]39 | — | — | — | 57 |
| 1930 | [a]16 | 40 | — | — | — | 29 | — | — | — | 85 |
| 1931 | — | 59 | 30 | — | — | — | — | 12 | — | 101 |
| 1932 | — | 63 | 119 | — | — | [a]12 | — | 387 | — | 581 |
| 1933 | — | 48 | [c] | — | 143 | — | — | [b]800 | — | 2,007 |
| 1934 | — | — | 35 | — | — | — | — | 195 | — | 877 |
| 1935 | 21 | [c] | [c] | — | — | — | — | 100 | — | 193 |
| 1936 | — | — | — | — | — | — | — | 99 | — | 99 |
| 1937 | 20 | — | — | — | — | [a]30 | — | 109 | — | 159 |
| 1938 | 50 | — | — | — | — | 30 | — | 95 | — | 175 |
| 1939 | 50 | — | — | — | — | — | — | — | — | 50 |
| 1940 | 51 | — | — | — | — | — | 12 | — | — | 63 |
| 1941 | 28 | — | — | — | — | 30 | 15 | 372 | — | 445 |
| 1942 | 11 | — | — | — | — | 60 | 275 | 1,100 | — | 1,446 |
| 1943 | — | — | — | — | — | 30 | 619 | 3,179 | — | 3,828 |
| 1944 | — | — | — | — | — | 60 | 764 | 3,857 | — | 4,681 |
| 1945 | — | — | — | — | — | 30 | 293 | 3,402 | — | 3,725 |
| 1946 | — | — | — | — | — | 62 | 251 | 4,450 | — | [d]4,767 |
| 1947 | — | — | — | — | — | 45 | 551 | 4,672 | — | [d]5,278 |
| 1948 | — | — | — | — | — | 984 | 539 | 4,788 | 70 | [d]6,418 |
| 1949 | — | — | — | — | — | 2,521 | 349 | 4,400 | — | 7,270 |
| 1950 | — | — | — | — | — | 2,406 | 254 | 5,258 | 186 | 8,104 |
| 1951 | — | — | — | — | — | 2,457 | 45 | 6,533 | — | [d]9,035 |
| 1952 | — | — | — | — | — | 3,017 | 72 | 3,357 | 7 | 6,467 |
| 1953 | — | — | — | — | — | 696 | 103 | 2,550 | — | 3,349 |
| 1954 | — | — | — | — | — | 2,623 | 44 | 6,871 | — | 9,538 |
| 1955 | — | — | — | — | — | 3,302 | 30 | 8,276 | — | 11,608 |
| 1956 | — | — | — | — | — | 3,462 | 24 | 6,758 | — | 10,244 |
| 1957 | — | — | — | — | — | 1,868 | — | 4,371 | 15 | 6,254 |
| 1958 | — | — | — | — | — | 2,077 | — | 3,195 | 30 | 5,302 |
| 1959 | — | — | — | — | — | 2,177 | — | 2,523 | — | 4,700 |
| 1960 | — | — | — | — | — | 2,373 | — | 2,952 | — | 5,325 |
| 1961 | — | — | — | — | — | 2,355 | — | 3,023 | — | 5,378 |
| 1962 | — | — | — | — | — | 2,267 | — | 3,658 | — | 5,925 |
| 1963 | — | — | — | — | — | 2,284 | — | 4,212 | 194 | 6,690 |
| 1964 | — | — | — | — | — | 2,324 | — | 3,689 | 123 | 6,136 |
| Total | 343 | 228 | 184 | 13 | 143 | 39,757 | 4,240 | 99,243 | 650 | 146,591 |

[a] Cornish stone. [b] As given in Warden's Report; probably incomplete. [c] Quantity not stated. [d] Not all accounted fo in previous columns.

FELSPAR AND CHINASTONE PRODUCTION—SOUTH AUSTRALIA

| Year | Hd. Dudley | Hd. Angus | Hd. Talunga | Hd. Para Wirra | Hd. Barossa | Hd. Myponga | Hd. Onka-paringa | Bool-coomata | Total |
|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1909 | 10 | — | — | — | — | — | — | — | 10 |
| 1910 | 6 | — | — | — | — | — | — | — | 6 |
| 1911–18 | — | — | — | — | — | — | — | — | — |
| 1919 | 80 | — | — | — | — | — | — | — | 80 |
| 1920 | 30 | 4 | — | — | — | — | — | — | 34 |
| 1921 | 7 | — | — | — | — | — | — | — | 7 |
| 1922 | — | — | — | — | — | — | — | — | — |
| 1923 | — | — | 20 | — | — | — | — | — | 20 |
| 1924 | — | — | — | — | — | — | — | — | — |
| 1925 | — | — | — | 10 | — | — | — | — | 10 |
| 1926 | — | — | — | 11 | 92 | — | — | — | 103 |
| 1927 | — | — | — | — | 84 | 8 | — | — | 92 |
| 1928 | — | — | — | — | 26 | 87 | — | — | 113 |
| 1929 | — | — | — | — | — | 58 | — | — | 58 |
| 1930–31 | — | — | — | — | — | — | — | — | — |
| 1932 | — | — | 5 | — | — | — | 35 | 24 | 64 |
| 1933 | — | — | 31 | — | — | — | — | 79 | 110 |
| 1934 | — | — | 79 | — | — | — | 14 | 116 | 209 |
| 1935 | — | — | 87 | — | — | — | 25 | 197 | 309 |
| 1936 | — | — | 113 | — | — | — | 20 | 411 | 544 |
| 1937 | — | — | 128 | — | — | — | 31 | 499 | 658 |
| 1938 | — | — | 175 | — | — | — | 48 | 271 | 494 |
| 1939 | — | — | 178 | — | — | — | 54 | 373 | 605 |
| 1940 | — | — | 278 | — | — | — | 45 | 732 | 1,055 |
| 1941 | — | — | 367 | — | — | — | 86 | 611 | 1,064 |
| 1942 | — | — | 381 | — | — | — | 31 | 598 | 1,010 |
| 1943 | — | — | 278 | — | — | — | 52 | 184 | 514 |
| 1944 | — | — | 508 | — | — | — | 36 | 261 | 805 |
| 1945 | — | — | 838 | — | — | — | 30 | 72 | 940 |
| 1946 | — | — | 1,192 | — | — | — | 34 | 70 | 1,296 |
| 1947 | — | — | 1,815 | — | — | — | 66 | 46 | 1,927 |
| 1948 | — | — | 1,935 | — | — | — | 49 | 200 | 2,184 |
| 1949 | — | — | 2,296 | — | — | — | 44 | 93 | 2,433 |
| 1950 | — | — | 3,430 | — | — | — | — | 111 | 3,541 |
| 1951 | — | — | 3,421 | 454 | — | — | — | 125 | 4,000 |
| 1952 | — | — | 4,241 | 101 | — | — | — | 277 | 4,619 |
| 1953 | — | — | 1,096 | 217 | — | — | — | 94 | 1,407 |
| 1954 | — | — | 3,498 | 6 | — | — | — | 116 | 3,620 |
| 1955 | — | — | 5,538 | — | — | — | — | 122 | 5,660 |
| 1956 | — | — | 4,511 | — | — | — | — | 93 | 4,604 |
| 1957 | — | — | 1,161 | — | — | — | — | 404 | 1,565 |
| 1958 | — | — | 875 | — | — | — | — | 158 | 1,033 |
| 1959 | — | — | 610 | — | — | — | — | 44 | 654 |
| 1960 | — | — | 1,121 | — | — | — | — | 26 | 1,147 |
| 1961 | — | — | 1,480 | — | — | — | — | 161 | 1,641 |
| 1962 | — | — | 1,321 | — | — | — | — | — | 1,321 |
| 1963 | — | — | 1,082 | — | — | — | — | 78 | 1,160 |
| 1964 | — | — | 1,265 | — | 225 | — | — | — | 1,490 |
| Total | 133 | 4 | 45,354 | 799 | 427 | 153 | 700 | 6,646 | 54,216 |

## FELSPAR PRODUCTION—WESTERN AUSTRALIA

| Year | Coolgardie G.F. (Londonderry) | Balingup District | Total [a] |
|---|---|---|---|
| | tons | tons | tons |
| 1921 | — | — | 1 |
| 1922 | — | — | 60 |
| 1923–25 | — | — | — |
| 1926 | — | — | 8 |
| 1927–28 | — | — | — |
| 1929 | — | — | 21 |
| 1930–31 | — | — | — |
| 1932 | 413 | — | 413 |
| 1933 | 444 | — | 444 |
| 1934 | 193 | — | 193 |
| 1935 | 4,208 | — | 4,208 |
| 1936 | 2,840 | — | 2,840 |
| 1937 | 2,900 | — | 2,900 |
| 1938 | 2,873 | — | 2,873 |
| 1939 | 3,542 | 250 | 3,792 |
| 1940 | 3,457 | 48 | 3,505 |
| 1941 | 3,990 | 117 | 4,107 |
| 1942 | 3,240 | 11 | 3,251 |
| 1943 | 2,289 | 24 | 2,313 |
| 1944 | 1,881 | 78 | 1,959 |
| 1945 | 1,235 | — | 1,235 |
| 1946 | 1,793 | — | 1,793 |
| 1947 | 1,226 | — | 1,226 |
| 1948 | 1,011 | — | 1,011 |
| 1949 | 1,049 | — | 1,049 |
| 1950 | 1,421 | — | 1,421 |
| 1951 | 1,807 | — | 1,807 |
| 1952 | 2,504 | — | 2,504 |
| 1953 | 2,080 | 47 | 2,127 |
| 1954 | 3,173 | 53 | 3,226 |
| 1955 | 3,565 | — | 3,565 |
| 1956 | 3,773 | 8 | 3,781 |
| 1957 | 995 | — | 995 |
| 1958 | 673 | 8 | 681 |
| 1959 | 1,393 | 3 | 1,396 |
| 1960 | 1,942 | — | 1,942 |
| 1961 | 1,190 | — | 1,190 |
| 1962 | 1,267 | — | 1,267 |
| 1963 | 992 | — | 992 |
| 1964 | 1,386 | — | 1,386 |
| Total | 65,835 | 649 | 67,482 |

[a] From export figures prior to 1932; localities not specified.

# FLUORSPAR

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Fluorspar Production—New South Wales .. .. .. .. .. 165

## FLUORSPAR PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Victoria (Pine Mountain) | South Australia (Plumbago Station) | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1915 | — | 417 | — | — | 417 |
| 1916 | — | 1,365 | — | — | 1,365 |
| 1917 | 71 | 1,305 | — | — | 1,376 |
| 1918 | — | 2,278 | 100 | — | 2,378 |
| 1919 | — | 2,014 | 314 | — | 2,328 |
| 1920 | 603 | 1,194 | 13 | — | 1,810 |
| 1921 | 536 | — | 196 | — | 732 |
| 1923 | — | — | — | — | — |
| 1923 | 50 | — | — | — | 50 |
| 1924 | 1,864 | — | — | — | 1,864 |
| 1925 | 4,227 | — | — | — | 4,227 |
| 1926 | 2,311 | — | — | — | 2,311 |
| 1927 | 1,033 | — | — | — | 1,033 |
| 1928 | 1,126 | — | — | — | 1,126 |
| 1929 | 592 | 94 | — | — | 686 |
| 1930 | 751 | 202 | — | — | 953 |
| 1931 | 521 | 12 | — | — | 533 |
| 1932 | 1,200 | — | — | 40 | 1,240 |
| 1933 | 737 | 50 | — | — | 985 |
| 1934 | 1,307 | 200 | — | 230 | 1,737 |
| 1935 | 182 | 413 | — | 90 | 685 |
| 1936 | 479 | 334 | — | 23 | 836 |
| 1937 | 1,388 | 54 | — | — | 1,442 |
| 1938 | 2,440 | — | 791 | — | 3,231 |
| 1939 | 20 | — | — | — | 20 |
| 1940 | 874 | — | — | — | 874 |
| 1941 | 696 | — | 134 | — | 830 |
| 1942 | 306 | — | 339 | — | 645 |
| 1943 | 535 | — | 461 | — | 996 |
| 1944 | 512 | — | 262 | — | 774 |
| 1945 | 788 | — | 143 | — | 931 |
| 1946 | 861 | — | 321 | — | 1,182 |
| 1947 | 873 | — | 327 | — | 1,200 |
| 1948 | 355 | — | 156 | — | 511 |
| 1949 | 562 | — | — | — | 562 |
| 1950 | 487 | — | 89 | — | 576 |
| 1951 | 277 | — | 212 | — | 489 |
| 1952 | 86 | — | — | — | 86 |
| 1953 | 207 | — | 126 | — | 333 |
| 1954 | 19 | — | — | — | 19 |
| 1955 | 244 | — | 38 | — | 282 |
| 1956 | 628 | 2 | 64 | 51 | 745 |
| 1957 | 602 | — | 51 | 47 | 700 |
| 1958 | 918 | — | — | 12 | 930 |
| 1959 | 460 | — | 11 | — | 471 |
| 1960 | — | — | 7 | — | 7 |
| 1961 | — | — | † | — | † |
| 1962 | — | — | — | — | — |
| 1963 | — | 15 | — | — | 15 |
| 1964 | — | — | — | — | — — |
| Total | 31,728 | 9,949 | 4,155 | 691 | 46,523 |

# FLUORSPAR

## FLUORSPAR—IMPORTS[a]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1933–34 | 537 | 1,096 | 1950 | 408 | 5,227 |
| 1934–35 | 625 | 1,741 | 1951 | 933 | 22,050 |
| | | | 1952 | 855 | 16,650 |
| 1935–36 | 290 | 1,436 | 1953 | 869 | 23,161 |
| 1936–37 | 5,214 | 14,459 | 1954 | 427 | 9,822 |
| 1937–38 | 428 | 1,878 | | | |
| 1938–39 | 409 | 2,583 | 1955 | 445 | 10,240 |
| 1939–40 | 215 | 1,375 | 1956 | 385 | 8,395 |
| | | | 1957 | 545 | 12,792 |
| 1940–41 | 166 | 1,440 | 1958 | 975 | 18,828 |
| 1941–42 | — | — | 1959 | 2,080 | 40,856 |
| 1942–43 | — | 1 | | | |
| 1943–44 | — | — | 1960 | 2,186 | 32,049 |
| 1944–45 | — | — | 1961 | 2,482 | 40,382 |
| | | | 1962 | 4,352 | 59,828 |
| 1945–46 | 100 | 1,334 | 1963 | 6,867 | 103,733 |
| 1946–47 | 40 | 620 | 1964 | 6,751 | 82,392 |
| 1947–48 | — | — | | | |
| 1949 | 70 | 1,349 | | | |

[a] Not recorded as a separate item prior to 1st July, 1933.

## CRYOLITE—IMPORTS[a]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1922–23 | 22 | 860 | 1943–44 | n.a. | 771 |
| 1923–24 | 61 | 2,159 | | | |
| 1924–25 | 54 | 1,898 | 1944–45 | 18 | 1,731 |
| | | | 1945–46 | 46 | 3,340 |
| 1925–26 | 38 | 1,361 | 1946–47 | 68 | 6,311 |
| 1926–27 | 55 | 1,693 | 1947–48 | 35 | 262 |
| 1927–28 | 104 | 3,696 | 1948–49 | 10 | 628 |
| 1928–29 | 143 | 5,052 | | | |
| 1929–30 | 148 | 4,619 | 1949–50 | 34 | 2,219 |
| | | | 1951 | 62 | 4,203 |
| 1930–31 | 58 | 1,715 | 1952 | 2,038 | 128,835 |
| 1931–32 | 248 | 5,821 | 1953 | 138 | 12,673 |
| 1932–33 | 138 | 6,881 | 1954 | 60 | 5,971 |
| 1933–34 | 234 | 11,253 | | | |
| 1934–35 | 84 | 4,158 | 1955 | 173 | 20,866 |
| | | | 1956 | 541 | 56,058 |
| 1935–36 | 267 | 10,457 | 1957 | 1,475 | 163,507 |
| 1936–37 | 71 | 3,566 | 1958 | 1,597 | 170,633 |
| 1937–38 | 204 | 9,682 | 1959 | 858 | 75,724 |
| 1938–39 | 250 | 11,889 | | | |
| 1939–40 | 183 | 9,396 | 1960 | 1,123 | 94,823 |
| | | | 1961 | 1,141 | 92,925 |
| 1940–41 | 158 | 16,048 | 1962 | 3,678 | 312,332 |
| 1941–42 | 49 | 4,036 | 1963 | 5,078 | 406,738 |
| 1942–43 | 15 | 1,588 | 1964 | 3,282 | 235,573 |

[a] Not recorded as a separate item prior to 1st July, 1922.

# FLUORSPAR

## FLUORSPAR PRODUCTION—QUEENSLAND

| Year | Herberton District (Mistake Mine, Emuford) | Chillagoe District | | Total |
|---|---|---|---|---|
| | | Perseverance Mine | Muldiva Creek etc. | |
| | tons | tons | tons | tons |
| 1917 | 71 | — | — | 71 |
| 1918–19 | — | — | — | — |
| 1920 | 603 | — | — | 603 |
| 1921 | 536 | — | — | 536 |
| 1922 | — | — | — | — |
| 1923 | — | 50 | — | 50 |
| 1924 | — | 1,864 | — | 1,864 |
| 1925 | — | 2,669 | 1,558 | 4,227 |
| 1926 | — | 2,311 | — | 2,311 |
| 1927 | — | 1,033 | — | 1,033 |
| 1928 | — | n.r. | 1,126 | 1,126 |
| 1929 | — | — | 592 | 592 |
| 1930 | — | — | 751 | 751 |
| 1931 | — | — | 521 | 521 |
| 1932 | — | — | 1,200 | 1,200 |
| 1933 | — | — | 737 | 737 |
| 1934 | — | — | 1,307 | 1,307 |
| 1935 | — | — | 182 | 182 |
| 1936 | — | — | 479 | 479 |
| 1937 | 52 | — | 1,336 | 1,388 |
| 1938 | 5 | — | 2,435 | 2,440 |
| 1939 | — | — | 20 | 20 |
| 1940 | — | — | 874 | 874 |
| 1941 | — | — | 696 | 696 |
| 1942 | — | — | 306 | 306 |
| 1943 | — | — | 535 | 535 |
| 1944 | — | — | 512 | 512 |
| 1945 | — | — | 788 | 788 |
| 1946 | — | — | 861 | 861 |
| 1947 | — | — | 873 | 873 |
| 1948 | — | — | 355 | 355 |
| 1949 | — | — | 562 | 562 |
| 1950 | — | — | 487 | 487 |
| 1951 | — | — | 277 | 277 |
| 1952 | — | — | 86 | 86 |
| 1953 | — | — | 207 | 207 |
| 1954 | — | — | 19 | 19 |
| 1955 | — | — | 244 | 244 |
| 1956 | — | — | 628 | 628 |
| 1957 | — | — | 602 | 602 |
| 1958 | — | — | 918 | 918 |
| 1959 | — | — | 460 | 460 |
| 1960–64 | — | — | — | — |
| Total | 1,267 | 7,927 | 22,534 | 31,728 |

FLUORSPAR PRODUCTION—NEW SOUTH WALES

| Year | Yass District (Woolgarlo Mine) | Tumbarumba District (Carboona) | New England District | Broken Hill District | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1915 | 417 | — | — | — | 417 |
| 1916 | 1,346 | 19 | — | — | 1,365 |
| 1917 | 593 | 712 | — | — | 1,305 |
| 1918 | 678 | 1,600 | — | — | 2,278 |
| 1919 | — | 1,814 | [a]200 | — | 2,014 |
| 1920 | — | 1,194 | — | — | 1,194 |
| 1921–28 | — | — | — | — | — |
| 1929 | — | — | [b]10 | [d]84 | 94 |
| 1930 | — | — | [b]12 | [f]190 | 202 |
| 1931 | — | — | — | [d]12 | 12 |
| 1932 | — | — | — | — | — |
| 1933 | — | — | [a]11 | — | [j]50 |
| 1934 | — | — | — | [g]150 | [j]200 |
| 1935 | — | — | — | [h]412 | 413 |
| 1936 | — | — | [a]40 | [d]294 | 334 |
| 1937 | — | — | [c]39 | [d]15 | 54 |
| 1938–55 | — | — | — | — | — |
| 1956 | — | — | [k]2 | — | 2 |
| 1957–62 | — | — | — | — | — |
| 1963 | — | — | — | 15 | 15 |
| 1964 | — | — | — | — | — |
| Total | 3,034 | 5,339 | 314 | 1,172 | 9,949 |

[a] The Gulf, Emmaville District. [b] Topper's Mountains, Tingha District. [c] Deepwater District. [d] Mount Eltie. [f] 160 Mount Eltie, 30 Yancowinna. [g] Purnamoota. [h] 89 Purnamoota, 323 Ph. Robe. [j] Not all accounted for in previous columns. [k] From Emmaville District.

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## OPAL PRODUCTION—AUSTRALIA
(Estimated value)

| Year | Queensland | New South Wales | South Australia | Total |
|---|---|---|---|---|
| | £ | £ | £ | £ |
| 1890 | 3,000 | 15,600 | — | 18,600 |
| 1891 | 10,000 | — | — | 10,000 |
| 1892 | 10,000 | 2,000 | — | 12,000 |
| 1893 | — | 12,315 | — | 12,315 |
| 1894 | 12,000 | 5,684 | — | 17,684 |
| 1895 | 32,750 | 6,000 | — | 38,750 |
| 1896 | 23,300 | 45,000 | — | 68,300 |
| 1897 | 10,250 | 75,000 | — | 85,250 |
| 1898 | 6,645 | 80,000 | — | 86,645 |
| 1899 | 9,000 | 135,000 | — | 144,000 |
| 1900 | 7,500 | 80,000 | — | 87,500 |
| 1901 | 7,400 | 120,000 | — | 127,400 |
| 1902 | 7,000 | 140,000 | — | 147,000 |
| 1903 | 7,300 | 100,000 | — | 107,300 |
| 1904 | 3,550 | 57,000 | — | 60,550 |
| 1905 | 3,000 | 59,000 | — | 62,000 |
| 1906 | 3,000 | 56,500 | — | 59,500 |
| 1907 | 3,000 | 79,000 | — | 82,000 |
| 1908 | 2,500 | 41,800 | — | 44,300 |
| 1909 | 2,000 | 61,800 | — | 63,800 |
| 1910 | 3,000 | 66,200 | — | 69,200 |
| 1911 | 3,000 | 57,300 | — | 60,300 |
| 1912 | 3,000 | 35,008 | — | 38,008 |
| 1913 | 3,000 | 29,493 | — | 32,493 |
| 1914 | 2,000 | 26,534 | — | 28,534 |
| 1915 | 500 | 6,403 | — | 6,903 |
| 1916 | 500 | 21,273 | 750 | 22,523 |
| 1917 | 100 | 12,522 | 500 | 13,122 |
| 1918 | 300 | 20,600 | 7,175 | 28,075 |
| 1919 | 600 | 27,552 | 20,000 | 48,152 |
| 1920 | 500 | 23,600 | 24,000 | 48,100 |
| 1921 | 500 | 13,020 | 7,000 | 20,520 |
| 1922 | 500 | 15,150 | 5,500 | 21,150 |
| 1923 | 500 | 3,040 | 3,500 | 7,040 |
| 1924 | 300 | 10,500 | 4,000 | 14,800 |
| 1925 | 1,000 | 10,030 | 9,070 | 20,100 |
| 1926 | 600 | 11,485 | 10,330 | 22,415 |
| 1927 | 400 | 13,353 | 9,157 | 22,910 |
| 1928 | 600 | 11,000 | 11,540 | 23,140 |
| 1929 | 600 | 6,071 | 11,056 | 17,727 |
| 1930 | 800 | 5,500 | 1,142 | 7,4 |
| 1931 | 600 | 2,178 | 3,127 | 5,9 |
| 1932 | 500 | 1,233 | 3,060 | 4,7 |
| 1933 | 400 | 4,231 | 3,256 | 7,8 |
| 1934 | 300 | 3,283 | 1,517 | 5,1 |
| 1935 | 200 | 5,070 | 3,228 | 8,4 |
| 1936 | 150 | 6,110 | 9,363 | 15,6 |
| 1937 | 100 | 3,357 | 11,887 | 15,3 |
| 1938 | 80 | 4,226 | 4,570 | 8,8 |
| 1939 | 50 | 1,020 | 6,020 | 7,0 |
| 1940 | — | 1,002 | 11,664 | 12,6 |
| 1941 | — | 825 | 11,568 | 12,3 |
| 1942 | — | 800 | 5,976 | 6,7 |
| 1943 | — | 2,288 | 13,881 | 16,1 |
| 1944 | 200 | 3,020 | 9,872 | 13,0 |
| 1945 | — | 3,000 | 12,284 | 15,2 |
| 1946 | 1,075 | 3,500 | 72,089 | 76,6 |
| 1947 | 307 | 1,000 | 61,569 | 62,8 |
| 1948 | 3,000 | 400 | 48,376 | 51,7 |
| 1949 | 1,200 | 1,592 | 39,798 | 42,5 |
| 1950 | 1,778 | 610 | 53,831 | 56,2 |
| 1951 | 1,117 | 240 | 64,117 | 65,4 |
| 1952 | 1,150 | 515 | 62,483 | 64,1 |
| 1953 | 1,350 | 204 | 76,460 | 78,0 |
| 1954 | 950 | 661 | 71,800 | 73,4 |
| 1955 | 1,350 | 1,000 | 71,200 | 73,5 |
| 1956 | 1,337 | 2,750 | 120,539 | 124,6 |
| 1957 | 1,050 | 1,500 | 182,399 | 184,9 |
| 1958 | 1,450 | 25,000 | 189,816 | 216,2 |
| 1959 | 842 | 23,111 | 422,067 | 446,0 |
| 1960 | 416 | 39,473 | 597,507 | 637,3 |
| 1961 | — | 65,000 | 765,052 | 830,0 |
| 1962 | — | 100,000 | 948,977 | 1,048,9 |
| 1963 | — | 125,000 | 1,143,456 | 1,268,4 |
| 1964 | — | 145,000 | 1,315,951 | 1,460,9 |
| Total | 206,447 | 2,174,532 | 6,543,480 | 8,924,4 |

## SAPPHIRE PRODUCTION—AUSTRALIA

(Estimated value)

| Year | Queensland | | New South Wales | | Total | |
|---|---|---|---|---|---|---|
| | oz. | £ | oz. | £ | oz. | £ |
| 1892 | — | 4,437 | — | — | — | 4,437 |
| 1893 | — | 4,500 | — | — | — | 4,500 |
| 1894–1899 | — | — | — | — | — | — |
| 1900 | — | 900 | — | — | — | 900 |
| 1901 | — | 6,000 | — | — | — | 6,000 |
| 1902 | — | 5,000 | — | — | — | 5,000 |
| 1903 | — | 7,000 | — | — | — | 7,000 |
| 1904 | — | 10,575 | — | — | — | 10,575 |
| 1905 | — | 5,255 | — | — | — | 5,255 |
| 1906 | — | 18,110 | — | — | — | 18,110 |
| 1907 | — | 40,500 | — | — | — | 40,500 |
| 1908 | — | 15,200 | — | — | — | 15,200 |
| 1909 | — | 23,116 | — | — | — | 23,116 |
| 1910 | — | 21,200 | — | — | — | 21,200 |
| 1911 | — | 24,393 | — | — | — | 24,393 |
| 1912 | — | 40,016 | — | — | — | 40,016 |
| 1913 | — | 43,292 | — | — | — | 43,292 |
| 1914 | — | 15,800 | — | — | — | 15,800 |
| 1915 | — | 600 | — | — | — | 600 |
| 1916 | — | 14,733 | — | — | — | 14,733 |
| 1917 | — | 14,208 | — | — | — | 14,208 |
| 1918 | — | 16,591 | — | — | — | 16,591 |
| 1919 | — | 42,883 | 8 | 76 | — | 42,959 |
| 1920 | — | 65,831 | 3,084 | 2,041 | — | 67,872 |
| 1921 | — | 46,524 | 1,683 | 2,976 | — | 49,500 |
| 1922 | — | 35,362 | 3,437 | 2,830 | — | 38,192 |
| 1923 | — | 23,309 | 1,034 | 3,282 | — | 26,591 |
| 1924 | — | 34,340 | 2,713 | 5,659 | — | 39,999 |
| 1925 | — | 34,573 | 1,490 | 7,772 | — | 42,345 |
| 1926 | — | 6,799 | 1,808 | 2,418 | — | 9,217 |
| 1927 | — | 2,202 | 3,118 | 2,612 | — | 4,814 |
| 1928 | — | 4,130 | 1,707 | 2,859 | — | 6,989 |
| 1929 | — | 4,810 | 1,683 | 2,976 | — | 7,786 |
| 1930 | — | 4,948 | — | — | — | 4,948 |
| 1931 | — | 2,443 | — | — | — | 2,443 |
| 1932 | — | 1,981 | — | — | — | 1,981 |
| 1933 | — | 2,759 | — | — | — | 2,759 |
| 1934 | — | 2,747 | — | — | — | 2,747 |
| 1935 | — | 1,716 | 47 | 132 | — | 1,848 |
| 1936 | — | 2,030 | 372 | 198 | — | 2,228 |
| 1937 | — | 1,410 | — | — | — | 1,410 |
| 1938 | — | 1,946 | — | — | — | 1,946 |
| 1939 | — | 326 | — | — | — | 326 |
| 1940 | — | 464 | — | — | — | 464 |
| 1941 | — | 1,000 | 1,200 | 600 | — | 1,600 |
| 1942 | — | 1,500 | — | — | — | 1,500 |
| 1943 | — | 2,350 | 248 | 124 | — | 2,474 |
| 1944 | — | 2,425 | — | — | — | 2,425 |
| 1945 | — | 1,399 | 125 | 283 | — | 1,622 |
| 1946 | — | 1,735 | 1,838 | 908 | — | 2,643 |
| 1947 | — | 3,540 | 510 | 570 | — | 4,110 |

SAPPHIRE PRODUCTION—AUSTRALIA—*continued*
(Estimated value)

| Year | Queensland | | New South Wales | | Total | |
|---|---|---|---|---|---|---|
| | oz. | £ | oz. | £ | oz. | £ |
| 1948 | — | 6,059 | 39 | 313 | — | 6,372 |
| 1949 | 290 | 4,868 | 10 | 5 | — | 4,873 |
| 1950 | 180 | 3,181 | — | — | — | 3,181 |
| 1951 | 63 | 1,135 | — | — | — | 1,135 |
| 1952 | — | 990 | — | — | — | 990 |
| 1953 | — | 6,725 | — | — | — | 6,725 |
| 1954 | — | 636 | — | — | — | 636 |
| 1955 | — | 3,412 | — | — | — | 3,412 |
| 1956 | — | 691 | — | — | — | 691 |
| 1957 | — | 20 | — | — | — | 20 |
| 1958 | — | 813 | — | 1,000 | — | 1,813 |
| 1959 | — | 1,062 | — | 1,730 | — | 2,792 |
| 1960 | — | 2,323 | — | 2,988 | — | 5,311 |
| 1961 | — | 4,715 | — | 3,332 | — | 8,047 |
| 1962 | — | 4,690 | — | 31,129 | — | 35,819 |
| 1963 | — | 7,115 | — | 24,343 | — | 31,458 |
| 1964 | — | 7,136 | — | 56,520 | — | 63,656 |
| Total | — | 724,419 | — | 159,676 | — | 884,095 |

## PRODUCTION OF EMERALDS AND SOME OTHER GEMSTONES—AUSTRALIA

| Year | Emeralds | | | | | Zircon | Topaz | Turquoise | | | | Chrysoprase | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | New South Wales (The Glen, Inverell) | | Western Australia (Poona, Cue District) | | | Queensland (Anakie) | New South Wales (Oban) | Queensland (Brisbane) | | Victoria (King River) | | Queensland (Marlborough) | |
| | carats | £ | rough carats | cut carats | £ | £ | £ | oz. | £ | carats | £ | cwt. | £ |
| 90 | 2,225 | n.a. | — | — | — | — | — | — | — | — | — | — | — |
| 91 | 25,000 | n.a. | — | — | — | — | — | — | — | — | — | — | — |
| 92 | 25,000 | n.a. | — | — | — | — | — | — | — | — | — | — | — |
| 95 | — | — | — | — | — | — | 20 | — | — | — | — | — | — |
| 96 | — | — | — | — | — | — | 4 | — | — | — | — | — | — |
| 09 | 1,000 | 1,600 | — | — | — | — | — | — | — | — | — | — | — |
| 12 | — | — | — | — | — | — | — | — | — | 3,000 | n.a. | — | — |
| 28 | — | — | 17,564 | 200 | 1,331 | — | — | — | — | — | — | — | — |
| 29 | — | — | 557 | 52 | 278 | — | — | — | — | — | — | — | — |
| 30 | — | — | 3,750 | n.a. | n.a. | 30 | — | — | — | — | — | — | — |
| 31 | — | — | — | — | — | 32 | — | — | — | — | — | — | — |
| 32 | — | — | — | — | — | — | — | n.a. | 1 | — | — | — | — |
| 33 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 34 | — | — | — | — | — | 2 | — | — | — | — | — | — | — |
| 36 | — | — | — | — | — | — | — | 20 | 8 | — | — | — | — |
| 38 | — | — | — | — | — | 5 | — | — | — | — | — | — | — |
| 54 | — | — | n.a. | 9 | 313 | — | — | — | — | — | — | — | — |
| 55–57 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 58 | — | — | — | — | — | — | — | — | — | — | — | †[a] | 5 |
| 59–62 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 63 | — | — | — | — | — | — | — | — | — | — | — | 40 | 3,800 |
| 64 | — | — | — | — | — | — | — | — | — | — | — | 200 | 22,379 |

[a] East Coolgardie (W.A.).

## ORNAMENTAL STONES PRODUCTION—AUSTRALIA

| Year | Agate | | Chalcedony | | | | Jasper | |
|---|---|---|---|---|---|---|---|---|
| | Queensland | | Queensland | | Western Australia | | Queensland | |
| | Perciville District | | Etheridge District | | North Coolgardie | | Southport District | |
| | cwt. | £ | cwt. | £ | cwt. | £ | cwt. | £ |
| 1943 | 7 | 67 | — | — | — | — | — | — |
| 1944-61 | — | — | — | — | — | — | — | — |
| 1962 | — | — | — | — | 4 | 200 | — | — |
| 1963 | 40 | 700 | 4 | 60 | — | — | — | — |
| 1964 | 24 | 583 | — | — | — | — | 16 | 228 |

ORNAMENTAL STONES PRODUCTION—AUSTRALIA

| Year | Rhodonite | | | | Opaline | | Prase | | Tiger Eye Opal | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Queensland | | New South Wales | | Western Australia | | Western Australia | | Western Australia | |
| | Warwick District | | Tamworth Division | | East Coolgardie | | Coolgardie | | Gascoyne | |
| | lb. | £ | lb. | £ | lb. | £ | lb. | £ | lb. | £ |
| 1943 | — | — | — | — | — | — | — | — | — | — |
| 1958 | 2,000 | 130 | — | — | 25 | 4 | — | — | — | — |
| 1959 | 900 | 60 | — | — | — | — | — | — | — | — |
| 1960 | 600 | 40 | — | — | — | — | 2,240 | 40 | 120 | 97 |
| 1961 | 560 | 40 | n.a. | 750 | — | — | — | — | — | — |
| 1962 | — | — | n.a. | 739 | — | — | — | — | — | — |
| 1963 | 784 | 52 | n.a. | 1,674 | — | — | — | — | — | — |
| 1964 | 784 | 40 | n.a. | 936 | — | — | — | — | — | — |

OPAL—EXPORTS[a]—AUSTRALIA

| Year | £, f.o.b. | Year | £, f.o.b. | Year | £, f.o.b. |
|---|---|---|---|---|---|
| 1927–28 | 9,162 | 1940–41 | 9,136 | 1954 | 91,115 |
| 1928–29 | 13,374 | 1941–42 | 11,961 | | |
| 1929–30 | 48,589 | 1942–43 | 6,928 | 1955 | 122,967 |
| | | 1943–44 | 10,385 | 1956 | 173,835 |
| 1930–31 | 16,121 | 1944–45 | 8,730 | 1957 | 288,951 |
| 1931–32 | 21,254 | | | 1958 | 351,342 |
| 1932–33 | 15,365 | 1945–46 | 11,344 | 1959 | 674,948 |
| 1933–34 | 15,515 | 1946–47 | 63,202 | | |
| 1934–35 | 12,370 | 1947–48 | 34,380 | 1960 | 1,036,298 |
| | | 1948–49 | 31,771 | 1961 | 1,403,740 |
| 1935–36 | 17,961 | | | 1962 | 2,106,159 |
| 1936–37 | 16,552 | 1950 | 40,040 | 1963 | 2,696,984 |
| 1937–38 | 12,121 | 1951 | 79,972 | 1964 | 2,698,972 |
| 1938–39 | 7,337 | 1952 | 94,669 | | |
| 1939–40 | 8,072 | 1953 | 117,120 | | |

[a] Not recorded as a separate item prior to 1st July, 1927.

GEM DIAMONDS—EXPORTS[a]—AUSTRALIA

| Year | carats | £, f.o.b. | Year | carats | £, f.o.b. |
|---|---|---|---|---|---|
| 1947–48 | — | — | 1955–56 | 1,321 | 22,174 |
| 1948–49 | 617 | 65,299 | 1956–57 | 1,340 | 25,262 |
| 1949–50 | 1,243 | 44,375 | 1957–58 | 2,211 | 58,239 |
| | | | 1958–59 | 1,217 | 47,396 |
| 1950–51 | 94 | 4,313 | 1959–60 | 8,599 | 122,300 |
| 1951–52 | 639 | 49,543 | | | |
| 1952–53 | 1,001 | 74,030 | 1960–61 | 4,729 | 217,821 |
| 1953–54 | 1,415 | 39,311 | 1961–62 | 9,852 | 203,026 |
| 1954–55 | 1,551 | 45,879 | 1962–63 | 1,601 | 185,729 |
| | | | 1963–64 | 1,357 | 177,355 |

[a] Not recorded as a separate item prior to 1st July, 1947.

GEM DIAMONDS—IMPORTS[a]—AUSTRALIA

| Year | carats[b] | £, f.o.b. | Year | carats[b] | £, f.o.b. |
|---|---|---|---|---|---|
| 1927–28 | — | 480,016 | 1945–46 | — | 270,711 |
| 1928–29 | — | 466,317 | 1946–47 | 11,277 | 419,992 |
| 1929–30 | — | 226,290 | 1947–48 | 78,184 | 613,818 |
| | | | 1948–49 | 24,722 | 745,647 |
| 1930–31 | — | 20,608 | 1949–50 | 76,682 | 822,130 |
| 1931–32 | — | 55,896 | | | |
| 1932–33 | — | 105,339 | 1950–51 | 40,578 | 1,310,646 |
| 1933–34 | — | 113,021 | 1951–52 | 17,591 | 786,594 |
| 1934–35 | — | 181,806 | 1952–53 | 10,205 | 400,008 |
| | | | 1953–54 | 19,857 | 981,326 |
| 1935–36 | — | 249,062 | 1954–55 | 18,705 | 999,421 |
| 1936–37 | — | 217,171 | | | |
| 1937–38 | — | 289,187 | 1955–56 | 20,595 | 1,046,675 |
| 1938–39 | — | 240,326 | 1956–57 | 16,511 | 918,978 |
| 1939–40 | — | 229,711 | 1957–58 | 18,241 | 971,899 |
| | | | 1958–59 | 15,441 | 890,143 |
| 1940–41 | — | 149,475 | 1959–60 | 25,827 | 1,234,995 |
| 1941–42 | — | 112,942 | | | |
| 1942–43 | — | 185,253 | 1960–61 | 21,813 | 1,190,755 |
| 1943–44 | — | 137,352 | 1961–62 | 20,608 | 1,182,900 |
| 1944–45 | — | 410 | 1962–63 | 21,964 | 1,311,743 |
| | | | 1963–64 | 29,783 | 1,479,083 |

[a] Not recorded as a separate item prior to 1st July, 1927. [b] Not available prior to 1st July, 1946.

## OPAL PRODUCTION—SOUTH AUSTRALIA

| Year | Coober Pedy | Andamooka | Mintabie[a] | Stuart Creek[b] | Total |
|---|---|---|---|---|---|
| | £ | £ | £ | £ | £ |
| 1916 | 750 | — | — | — | 750 |
| 1917 | 500 | — | — | — | 500 |
| 1918 | 7,175 | — | — | — | 7,175 |
| 1919 | 20,000 | — | — | — | 20,000 |
| 1920 | 24,000 | — | — | — | 24,000 |
| 1921 | 7,000 | — | — | — | 7,000 |
| 1922 | 5,500 | — | — | — | 5,500 |
| 1923 | 3,500 | — | — | — | 3,500 |
| 1924 | 4,000 | — | — | — | 4,000 |
| 1925 | 9,070 | — | — | — | 9,070 |
| 1926 | 10,330 | — | — | — | 10,330 |
| 1927 | 9,157 | — | — | — | 9,157 |
| 1928 | 11,540 | — | — | — | 11,540 |
| 1929 | 11,056 | — | — | — | 11,056 |
| 1930 | 1,142 | — | — | — | 1,142 |
| 1931 | 3,127 | — | — | — | 3,127 |
| 1932 | 3,060 | — | — | — | 3,060 |
| 1933 | 2,294 | 962 | — | — | 3,256 |
| 1934 | 861 | 656 | — | — | 1,517 |
| 1935 | 2,145 | 1,049 | 34 | — | 3,228 |
| 1936 | 8,211 | 1,067 | 85 | — | 9,363 |
| 1937 | 8,200 | 3,687 | — | — | 11,887 |
| 1938 | 2,312 | 2,258 | — | — | 4,570 |
| 1939 | 1,971 | 4,001 | 48 | — | 6,020 |
| 1940 | 2,642 | 9,022 | — | — | 11,664 |
| 1941 | 2,015 | 9,553 | — | — | 11,568 |
| 1942 | 1,186 | 4,790 | — | — | 5,976 |
| 1943 | 2,244 | 11,637 | — | — | 13,881 |
| 1944 | 1,075 | 8,797 | — | — | 9,872 |
| 1945 | 967 | 11,317 | — | — | 12,284 |
| 1946 | 54,797 | 17,292 | — | — | 72,089 |
| 1947 | 40,242 | 21,180 | — | 147 | 61,569 |
| 1948 | 30,394 | 17,982 | — | — | 48,376 |
| 1949 | 17,578 | 22,215 | 5 | — | 39,798 |
| 1950 | 22,712 | 31,119 | — | — | 53,831 |
| 1951 | 40,185 | 23,932 | — | — | 64,117 |
| 1952 | 43,877 | 18,606 | — | — | 62,483 |
| 1953 | 54,170 | 22,290 | — | — | 76,460 |
| 1954 | 48,503 | 23,237 | 60 | — | 71,800 |
| 1955 | 37,065 | 34,120 | 15 | — | 71,200 |
| 1956 | 49,425 | 71,094 | — | 20 | 120,539 |
| 1957 | 105,417 | 76,982 | — | — | 182,399 |
| 1958 | 103,012 | 85,554 | 1,250 | — | 189,816 |
| 1959 | 249,413 | 172,154 | 500 | — | 422,067 |
| 1960 | 413,248 | 183,459 | — | 800 | 597,507 |
| 1961 | 412,283 | 350,444 | 2,325 | — | 765,052 |
| 1962 | 568,037 | 377,086 | 3,854 | — | 948,977 |
| 1963 | 736,244 | 405,287 | 1,925 | — | 1,143,456 |
| 1964 | 681,073 | 633,248 | 1,630 | — | 1,315,951 |
| Total | 3,874,705 | 2,656,077 | 11,731 | 967 | 6,543,480 |

[a] Located about 130 miles NW of Oodnadatta. [b] Located north of Lake Torrens.

# GOLD

In compiling statistics for gold production by principal mining fields or districts of the States and the Northern Territory the objective was to place these on a uniform basis. In many instances these data are at variance with those reported in the *Annual Reports* of State Mines Departments and the Mines Branch of the Northern Territory Administration.

For example the figures for total gold production by States were taken from the Commonwealth Bureau of Census and Statistics Bulletin "Non-rural Primary Industries and Value of Production", while data for districts and/or mining fields were taken from the *Annual Reports* of the States Mines Departments.

In Western Australia, the official gold production of the State is the quantity of gold advised as being received at the Perth Branch of the Royal Mint together with that contained in gold-bearing material exported for treatment.

As a result of differing sources of information and/or differing units of weight' in some instances the district totals are not in agreement with official State totals·


Gold Production—Australia .. .. .. .. .. .. 176–178

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Gold—Prices .. .. .. .. .. .. .. .. .. 179

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Gold—Imports—Australia .. .. .. .. .. .. .. 182–183

Gold Production—Queensland .. .. .. .. .. .. 184–185

Gold Production—New South Wales .. .. .. .. .. 186–187

Gold Production—Victoria .. .. .. .. .. .. 188–189

Gold Production—Tasmania .. .. .. .. .. .. 190–191

Gold Production—Western Australia .. .. .. .. .. 192–193

Gold Production—Northern Territory .. .. .. .. .. 194–195

## GOLD PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|---|
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| 1851 | — | 110,256 | 209,483 | — | — | — | — | 310,739 |
| 1852 | — | 626,440 | 2,153,183 | — | — | — | — | 2,779,623 |
| 1853 | — | 449,324 | 2,584,062 | — | — | — | — | 3,003,386 |
| 1854 | — | 182,029 | 2,089,102 | — | — | — | — | 2,271,131 |
| 1855 | — | 154,105 | 2,654,867 | — | — | — | — | 2,808,972 |
| 1856 | — | 162,245 | 2,875,647 | 425 | — | — | — | 3,038 317 |
| 1857 | — | 158,785 | 2,665,152 | 324 | — | — | — | 2,824,261 |
| 1858 | — | 259,945 | 2,444,816 | 219 | — | — | — | 2,704,980 |
| 1859 | [a]691 | 296,424 | 2,211,738 | 115 | — | — | — | 2,508,968 |
| 1860 | 2,738 | 344,978 | 2,094,359 | 10 | — | — | — | 2,442,085 |
| 1861 | 925 | 425,209 | 1,916,482 | 8 | — | — | — | 2,342,624 |
| 1862 | 146 | 580,965 | 1,629,296 | — | — | — | — | 2,210,407 |
| 1863 | 3,485 | 422,854 | 1,595,977 | — | — | — | — | 2,022,316 |
| 1864 | 19,609 | 307,206 | 1,527,826 | — | — | — | — | 1,854,641 |
| 1865 | 21,880 | 289,859 | 1,517,568 | — | — | — | — | 1,829,307 |
| 1866 | 20,143 | 262,824 | 1,456,730 | 246 | — | — | — | 1,739,943 |
| 1867 | 44,552 | 248,033 | 1,413,882 | 1,032 | — | — | — | 1,707,499 |
| 1868 | 139,726 | 234,164 | 1,586,654 | 597 | — | — | — | 1,961,141 |
| 1869 | 123,135 | 229,334 | 1,454,665 | 121 | — | — | — | 1,807,255 |
| 1870 | 115,248 | 219,180 | 1,228,237 | 863 | — | — | — | 1,563,528 |
| 1871 | 145,231 | 294,389 | 1,289,105 | 5,525 | — | — | — | 1,734,250 |
| 1872 | 155,470 | 387,072 | 1,253,731 | 6,430 | — | — | — | 1,802,703 |
| 1873 | 168,923 | 328,735 | 1,102,139 | 4,329 | — | — | — | 1,604,126 |
| 1874 | 319,246 | 245,217 | 1,033,628 | 4,353 | — | — | — | 1,602,444 |
| 1875 | 352,762 | 206,627 | 1,006,107 | 2,821 | [b]133,687 | — | — | 1,702,004 |
| 1876 | 338,560 | 144,357 | 907,553 | 10,576 | 2,328 | — | — | 1,403,374 |
| 1877 | 310,110 | 110,988 | 762,434 | 5,483 | — | — | — | 1,189,015 |
| 1878 | 270,554 | 101,278 | 713,831 | 23,542 | 288 | — | — | 1,109,493 |
| 1879 | 243,475 | 95,867 | 714,685 | 54,357 | 21 | — | — | 1,108,405 |
| 1880 | 222,441 | 104,586 | 780,767 | 47,389 | — | — | [b]18,604 | 1,173,787 |
| 1881 | 225,431 | 135,033 | 784,775 | 51,063 | 207 | — | 26,354 | 1,222,863 |
| 1882 | 185,009 | 123,954 | 814,186 | 44,103 | 1,091 | — | 19,003 | 1,187,346 |
| 1883 | 173,460 | 107,947 | 734,749 | 41,538 | 2,480 | — | 18,173 | 1,078,347 |
| 1884 | 250,127 | 93,240 | 733,209 | 37,762 | 3,642 | — | 18,348 | 1,136,328 |
| 1885 | 250,137 | 89,145 | 692,340 | 36,563 | 4,307 | — | 16,577 | 1,089,069 |
| 1886 | 279,488 | 86,233 | 626,402 | 27,603 | 7,659 | 270 | 14,864 | 1,042,519 |
| 1887 | 348,890 | 92,892 | 581,724 | 37,322 | 16,951 | 4,359 | 16,191 | 1,098,329 |
| 1888 | 397,972 | 74,685 | 588,574 | 34,643 | 8,052 | 3,125 | 8,193 | 1,115,244 |
| 1889 | 634,605 | 102,357 | 578,981 | 28,180 | 8,782 | 13,860 | 11,218 | 1,377,983 |
| 1890 | 513,819 | 108,360 | 554,235 | 17,866 | 4,899 | 20,402 | 19,016 | 1,238,597 |
| 1891 | 477,976 | 131,654 | 542,783 | 34,244 | 6,446 | 27,116 | 23,236 | 1,243,455 |
| 1892 | 509,541 | 135,437 | 616,288 | 37,412 | 6,144 | 53,272 | 25,706 | 1,383,800 |
| 1893 | 510,342 | 153,326 | 631,986 | 33,271 | 2,958 | 99,203 | 25,456 | 1,456,542 |
| 1894 | 548,595 | 272,314 | 675,141 | 51,092 | 7,882 | 185,299 | 25,807 | 1,766,130 |
| 1895 | 506,285 | 309,796 | 696,924 | 48,524 | 6,143 | 207,110 | 24,197 | 1,798,979 |
| 1896 | 502,146 | 252,690 | 758,134 | 55,930 | 3,380 | 251,619 | 19,116 | 1,843,015 |
| 1897 | 600,949 | 259,978 | 765,366 | 69,840 | 9,206 | 603,846 | 19,099 | 2,328,284 |
| 1898 | 647,487 | 282,914 | 788,428 | 68,624 | 2,524 | 939,490 | 19,951 | 2,749,418 |
| 1899 | 668,227 | 382,162 | 804,666 | 77,111 | 3,668 | 1,470,606 | 14,964 | 3,421,404 |
| 1900 | 676,027 | 252,116 | 760,319 | 74,445 | 3,426 | 1,414,312 | 15,990 | 3,196,635 |

[a] Production period 1856 to 1859. [b] Includes estimates for previous years.

GOLD PRODUCTION—AUSTRALIA—*continued*

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|---|
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| 1901 | 598,382 | 173,543 | 730,453 | 69,491 | 3,911 | 1,703,417 | 20,815 | 3,300,012 |
| 1902 | 640,463 | 161,256 | 720,866 | 70,996 | 5,857 | 1,871,038 | 16,556 | 3,487,032 |
| 1903 | 668,546 | 254,260 | 767,297 | 59,892 | 6,748 | 2,064,803 | 16,433 | 3,837,979 |
| 1904 | 639,150 | 269,817 | 765,600 | 65,921 | 17,898 | 1,983,231 | 9,900 | 3,751,517 |
| 1905 | 592,622 | 274,267 | 747,166 | 73,540 | 10,795 | 1,955,317 | 12,161 | 3,665,868 |
| 1906 | 544,636 | 253,987 | 772,290 | 60,023 | 6,356 | 1,794,548 | 11,563 | 3,443,403 |
| 1907 | 465,881 | 247,363 | 695,576 | 65,354 | 4,836 | 1,697,555 | 5,104 | 3,181,669 |
| 1908 | 465,085 | 224,792 | 671,209 | 57,085 | 2,896 | 1,647,912 | 5,695 | 3,074,674 |
| 1909 | 455,580 | 204,709 | 654,222 | 44,777 | 7,111 | 1,595,270 | 7,323 | 2,968,992 |
| 1910 | 441,402 | 188,857 | 570,383 | 37,048 | 6,592 | 1,470,633 | 6,008 | 2,720,923 |
| 1911 | 386,165 | 181,121 | 504,000 | 31,101 | 3,531 | 1,370,868 | 7,277 | 2,484,063 |
| 1912 | 347,946 | 165,295 | 480,131 | 37,973 | 6,592 | 1,282,659 | 5,337 | 2,325,933 |
| 1913 | 265,735 | 149,657 | 434,933 | 33,400 | 6,545 | 1,314,043 | 3,119 | 2,207,432 |
| 1914 | 249,468 | 124,507 | 413,218 | 26,243 | 6,258 | 1,232,977 | 2,532 | 2,055,203 |
| 1915 | 249,711 | 132,498 | 329,068 | 18,547 | 6,081 | 1,210,112 | [c]890 | 1,946,907 |
| 1916 | 215,162 | 108,145 | 256,643 | 15,790 | 7,769 | 1,061,398 | [d]909 | 1,665,816 |
| 1917 | 179,305 | 82,171 | 201,872 | 14,496 | 7,141 | 970,317 | [d]866 | 1,456,168 |
| 1918 | 133,571 | 87,045 | 158,827 | 10,529 | 6,180 | 876,511 | [d]525 | 1,273,188 |
| 1919 | 121,030 | 65,839 | 135,428 | 7,686 | 3,224 | 734,066 | [d]829 | 1,068,102 |
| 1920 | 115,230 | 48,908 | 152,792 | 6,246 | 1,697 | 617,842 | [d]939 | 943,654 |
| 1921 | 40,376 | 51,173 | 104,512 | 5,340 | 2,628 | 553,731 | [d]245 | 758,005 |
| 1922 | 80,584 | 25,222 | 106,872 | 3,431 | 1,000 | 538,246 | [d]115 | 755,470 |
| 1923 | 88,726 | 18,833 | 95,403 | 3,684 | 949 | 504,511 | [d]168 | 712,274 |
| 1924 | 98,841 | 18,685 | 67,167 | 4,626 | 880 | 485,035 | [d]703 | 675,937 |
| 1925 | 46,406 | 19,422 | 47,296 | 3,524 | 832 | 441,252 | [d]456 | 559,188 |
| 1926 | 10,339 | 19,435 | 49,078 | 4,223 | 758 | 437,343 | [d]140 | 521,316 |
| 1927 | 37,979 | 18,032 | 38,538 | 4,861 | 418 | 408,353 | [d]110 | 508,291 |
| 1928 | 13,277 | 12,831 | 33,917 | 3,603 | 532 | 393,408 | [d]101 | 457,669 |
| 1929 | 9,476 | 7,496 | 26,275 | 5,597 | 1,009 | 377,176 | [d]131 | 427,160 |
| 1930 | 7,821 | 12,493 | 24,119 | 4,467 | 1,311 | 417,518 | [d]13 | 467,742 |
| 1931 | 13,147 | 19,673 | 43,637 | 4,760 | 2,782 | 510,572 | [d]552 | 595,123 |
| 1932 | 23,263 | 27,941 | 47,745 | 5,937 | 3,014 | 605,561 | [d]674 | 714,135 |
| 1933 | 91,997 | 29,252 | 58,183 | 6,673 | 6,361 | 637,207 | [d]594 | 830,267 |
| 1934 | 115,471 | 36,123 | 70,196 | 5,622 | 6,870 | 651,338 | [d]989 | 886,609 |
| 1935 | 102,990 | 50,102 | 87,609 | 8,343 | 7,333 | 649,049 | [d] 5,066 | 910,492 |
| 1936 | 121,174 | 60,739 | 117,596 | 17,600 | 7,681 | 846,208 | [d] 8,753 | 1,179,751 |
| 1937 | 127,281 | 68,607 | 145,799 | 20,276 | 6,962 | 1,000,647 | [f]15,808 | 1,385,380 |
| 1938 | 151,432 | 88,698 | 144,243 | 22,200 | 5,292 | 1,167,791 | 12,378 | 1,592,034 |
| 1939 | 147,248 | 87,189 | 156,522 | 19,984 | 3,930 | 1,214,238 | 16,586 | 1,645,697 |
| 1940 | 126,831 | 100,255 | 180,567 | 19,171 | 3,270 | 1,191,482 | 22,423 | 1,643,999 |
| 1941 | 109,064 | 88,091 | 149,769 | 19,908 | 1,679 | 1,109,318 | 18,869 | 1,496,698 |
| 1942 | 95,117 | 77,249 | 101,497 | 18,353 | 1,333 | 848,180 | 12,058 | 1,153,787 |
| 1943 | 62,838 | 63,779 | 56,511 | 17,245 | 519 | 546,475 | 3,912 | 751,279 |
| 1944 | 51,223 | 62,610 | 54,086 | 16,653 | 539 | 466,265 | 5,491 | 656,867 |
| 1945 | 63,223 | 43,129 | 61,790 | 13,050 | 277 | 468,551 | 7,193 | 657,213 |
| 1946 | 62,733 | 32,009 | 86,993 | 15,362 | 628 | 616,964 | 9,791 | 824,480 |
| 1947 | 72,281 | 50,082 | 84,709 | 15,051 | 629 | 703,886 | 11,016 | 937,654 |
| 1948 | 69,646 | 52,164 | 68,580 | 12,905 | 2,036 | 664,986 | 15,190 | 885,507 |
| 1949 | 76,282 | 51,793 | 68,426 | 12,152 | 2,198 | 648,426 | 29,781 | 889,058 |
| 1950 | 88,249 | 51,350 | 67,826 | 15,578 | 1,141 | 610,333 | 35,060 | 869,537 |

[c] Period from 1st January to 30th June, 1915. [d] Year ended 30th June. [f] Eighteen months ended 31st December, 1937.

GOLD PRODUCTION—AUSTRALIA—*continued*

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|---|
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| 1951 | 78,580 | 48,910 | 66,063 | 14,446 | 362 | 648,245 | 38,945 | 895,551 |
| 1952 | 85,756 | 39,030 | 66,777 | 16,072 | 437 | 727,469 | 44,894 | 980,435 |
| 1953 | 91,887 | 26,461 | 63,917 | 16,988 | 443 | 823,062 | 52,423 | 1,075,181 |
| 1954 | 97,951 | 31,374 | 52,665 | 19,368 | 54 | 861,992 | 54,338 | 1,117,742 |
| 1955 | 64,322 | 30,067 | 38,035 | 16,882 | 50 | 834,326 | 65,357 | 1,049,039 |
| 1956 | 56,022 | 28,821 | 38,846 | 17,131 | 43 | 813,537 | 75,421 | 1,029,821 |
| 1957 | 63,363 | 31,043 | 45,752 | 20,027 | 35 | 849,751 | 73,970 | 1,083,941 |
| 1958 | 74,568 | 18,709 | 41,476 | 21,744 | 48 | 874,819 | 72,616 | 1,103,980 |
| 1959 | 91,687 | 13,275 | 34,662 | 21,353 | 16 | 860,969 | 63,142 | 1,085,104 |
| 1960 | 78,267 | 13,628 | 28,566 | 23,994 | 36 | 869,966 | 72,252 | 1,086,709 |
| 1961 | 64,786 | 12,034 | 26,229 | 26,885 | 55 | 870,658 | 75,645 | 1,076,292 |
| 1962 | 67,729 | 11,234 | 28,262 | 32,115 | 48 | 860,039 | 69,410 | 1,068,837 |
| 1963 | 68,586 | 11,395 | 24,668 | 36,422 | 16 | 802,860 | 80,023 | 1,023,970 |
| 1964 | 100,937 | 10,569 | 21,284 | 34,381 | 17 | 715,481 | 81,165 | 963,834 |
| Total | 22,990,389 | 16,468,552 | 73,778,553 | 2,530,026 | 450,640 | 64,875,630 | 1,688,811 | 182,782,601 |

REFINED GOLD PRODUCTION[a]—AUSTRALIA
(Newly-won gold of Australian origin)

| Year | fine oz. | £[b] | Year | fine oz. | £[b] |
|---|---|---|---|---|---|
| 1940 | 1,637,031 | 17,444,530 | 1955 | 1,054,714 | [cd]16,503,403 |
| 1941 | 1,440,765 | 15,392,557 | 1956 | 1,044,164 | [cd]16,345,912 |
| 1942 | 1,168,099 | 12,209,555 | 1957 | 1,078,419 | [cd]16,872,458 |
| 1943 | 753,878 | 7,878,025 | 1958 | 1,069,774 | [cd]16,720,490 |
| 1944 | 635,723 | 6,678,969 | 1959 | 1,067,129 | [cd]16,677,132 |
| 1945 | 613,049 | 6,556,069 | 1960 | 1,045,139 | [cd]16,396,000 |
| 1946 | 820,399 | 8,829,544 | 1961 | 1,036,947 | [cd]16,241,000 |
| 1947 | 969,088 | 10,429,810 | 1962 | 1,024,623 | [cd]16,021,000 |
| 1948 | 884,237 | 9,516,601 | 1963 | 958,381 | [cd]14,997,000 |
| 1949 | 878,719 | 10,669,670 | 1964 | 892,726 | [cd]13,998,000 |
| 1950 | 844,161 | 13,077,489 | | | |
| 1951 | 850,236 | 13,171,601 | | | |
| 1952 | 978,956 | [c]16,036,876 | | | |
| 1953 | 1,052,779 | [c]16,780,106 | | | |
| 1954 | 1,063,457 | [c]16,589,114 | | | |

[a] Not available prior to 1940. [b] Based on price fixed by Commonwealth Bank. [c] Includes allowance for premiums on sales of gold oversea and for industrial purposes in Australia. [d] Excludes payments made under the Gold Mining Industry Assistance Act, 1954–57.

## GOLD—PRICES

Yearly average[a]

| Year | Australia per fine oz. | London per fine oz. | Year | Australia per fine oz. | London per fine oz. |
|---|---|---|---|---|---|
| | £A. s. d. | £stg. s. d. | | £A. s. d. | £stg. s. d. |
| 1920 | 4 5 0 | 4 5 0 | 1943 | 10 9 0 | 8 8 0 |
| 1921 | 4 5 0 | 4 5 0 | 1944 | 10 10 2 | 8 8 0 |
| 1922 | 4 5 0 | 4 5 0 | | | |
| 1923 | 4 5 0 | 4 5 0 | 1945 | 10 14 0 | 8 10 7 |
| 1924 | 4 5 0 | 4 5 0 | 1946 | 10 15 3 | 8 12 3 |
| | | | 1947 | 10 15 3 | 8 12 3 |
| 1925 | 4 5 0 | 4 5 0 | 1948 | 10 15 3 | 8 12 3 |
| 1926 | 4 5 0 | 4 5 0 | 1949 | 12 2 2 | 9 14 2 |
| 1927 | 4 5 0 | 4 5 0 | | | |
| 1928 | 4 5 0 | 4 5 0 | 1950 | 15 9 10 | 12 8 0 |
| 1929 | 4 5 0 | 4 5 0 | 1951 | 15 9 10 | 12 8 0 |
| | | | 1952 | 15 9 10 | 12 8 0 |
| 1930 | 4 8 9 | 4 8 9 | 1953 | 15 9 10 | 12 8 0 |
| 1931 | 5 17 6 | 5 13 2 | 1954 | 15 11 7 | [b]12 9 4 |
| 1932 | 7 5 8 | 5 18 1 | | | |
| 1933 | 7 14 2 | 6 4 10 | 1955 | 15 12 6 | 12 10 11 |
| 1934 | 8 9 11 | 6 17 8 | 1956 | 15 12 6 | 12 10 2 |
| | | | 1957 | 15 12 6 | 12 10 3 |
| 1935 | 8 15 5 | 7 2 1 | 1958 | 15 12 6 | 12 9 9 |
| 1936 | 8 13 2 | 7 0 3 | 1959 | 15 12 6 | 12 9 10 |
| 1937 | 8 13 9 | 7 0 9 | | | |
| 1938 | 8 16 0 | 7 2 7 | 1960 | 15 12 6 | 12 11 2 |
| 1939 | 9 14 6 | [b] 7 12 4 | 1961 | 15 12 6 | 12 11 0 |
| | | | 1962 | 15 12 6 | 12 10 1 |
| 1940 | 10 13 2 | 8 8 0 | 1963 | 15 12 6 | 12 10 7 |
| 1941 | 10 13 8 | 8 8 0 | 1964 | 15 12 6 | 12 11 4 |
| 1942 | 10 9 1 | 8 8 0 | | | |

[a] To nearest penny. [b] From September 1939 until March 1954 price was fixed by regulation.

GOLD—EXPORTS[a]—AUSTRALIA

| Gold Ore and Concentrate | | | Gold Bar, Dust, Sheet, etc. | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | fine oz. | £, f.o.b. |
| 1903 | 846 | 16,562 | 1903 | 1,757,199 | 6,145,296 |
| 1904 | 202 | 10,037 | 1904 | 1,694,221 | 5,923,953 |
| 1905 | 148 | 10,174 | 1905 | 1,433,084 | 5,299,748 |
| 1906 | 157 | 4,171 | 1906 | 1,313,343 | 4,955,600 |
| 1907 | 95 | 3,599 | 1907 | 606,394 | 1,953,958 |
| 1908 | 55 | 4,221 | 1908 | 507,239 | 2,218,859 |
| 1909 | 564 | 55,514 | 1909 | 817,903 | 3,024,085 |
| 1910 | 2,525 | 88,222 | 1910 | 563,712 | 1,930,660 |
| 1911 | 1,680 | 67,223 | 1911 | 496,655 | 1,711,093 |
| 1912 | 1,712 | 69,970 | 1912 | 403,847 | 1,403,621 |
| 1913 | 1,562 | 76,296 | 1913 | 288,457 | 972,160 |
| 1914 | n.a. | n.a. | 1914 | n.a. | n.a. |
| 1914–15 | 783 | 52,586 | 1914–15 | 147,867 | 479,797 |
| 1915–16 | 312 | 25,718 | 1915–16 | 204,071 | 841,058 |
| 1916–17 | 10 | 967 | 1916–17 | 374 | 1,479 |
| 1917–18 | n.a. | n.a. | 1917–18 | n.a. | n.a. |
| 1918–19 | n.a. | n.a. | 1918–19 | n.a. | n.a. |
| 1919–20 | n.a. | n.a. | 1919–20 | 41,324 | 226,154 |
| 1920–21 | † | 90 | 1920–21 | 142 | 796 |
| 1921–22 | n.a. | n.a. | 1921–22 | 40 | 200 |
| 1922–23 | 65 | 4,355 | 1922–23 | 1,322 | 5,907 |
| 1923–24 | 11 | 5,223 | 1923–24 | 91,011 | 385,755 |
| 1924–25 | 103 | 6,708 | 1924–25 | 37,167 | 157,233 |
| 1925–26 | 1 | 1,051 | 1925–26 | 85,671 | 345,707 |
| 1926–27 | 44 | 857 | 1926–27 | 156,330 | 609,167 |
| 1927–28 | 36 | 870 | 1927–28 | 156,601 | 610,861 |
| 1928–29 | 255 | 3,034 | 1928–29 | 24,929 | 68,358 |
| 1929–30 | 301 | 2,307 | 1929–30 | 409 | 1,715 |
| 1930–31 | 209 | 1,674 | 1930–31 | 270,032 | 1,481,845 |
| 1931–32 | 321 | 2,956 | 1931–32 | 1,021,413 | 7,074,782 |

[a] Statistics not available prior to 1903.

GOLD—EXPORTS[a]—AUSTRALIA—*continued*

| Gold Ore and Concentrate | | | Gold Bar, Dust, Sheet, etc. | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | fine oz. | £, f.o.b. |
| 1932–33 | 372 | 4,666 | 1932–33 | 1,080,210 | 8,108,848 |
| 1933–34 | 548 | 6,123 | 1933–34 | 1,135,190 | 9,232,506 |
| 1934–35 | 41 | 3,360 | 1934–35 | 1,101,786 | 9,609,980 |
| 1935–36 | 818 | 9,727 | 1935–36 | 1,328,132 | 11,532,943 |
| 1936–37 | 980 | 25,873 | 1936–37 | 1,577,518 | 13,705,405 |
| 1937–38 | 1,174 | 35,363 | 1937–38 | 1,829,974 | 15,815,523 |
| 1938–39 | 522 | 17,940 | 1938–39 | 1,970,240 | 17,843,088 |
| 1939–40 | 80 | 22,406 | 1939–40 | 1,985,132 | 20,585,796 |
| 1940–41 | 39 | 27,003 | 1940–41 | 2,062,209 | 22,014,825 |
| 1941–42 | 317 | 24,769 | 1941–42 | 859,128 | 9,188,233 |
| 1942–43 | — | — | 1942–43 | — | — |
| 1943–44 | — | — | 1943–44 | — | — |
| 1944–45 | 2 | 1,992 | 1944–45 | — | — |
| 1945–46 | — | — | 1945–46 | 2,515,354 | 26,411,224 |
| 1946–47 | — | — | 1946–47 | 125 | 1,232 |
| 1947–48 | 125 | 9,235 | 1947–48 | 355,933 | 3,830,908 |
| 1949 | 5 | 270 | 1949 | 226 | 2,847 |
| 1950 | 76 | 8,451 | 1950 | 22 | 343 |
| 1951 | 152 | 13,336 | 1951 | 45 | 651 |
| 1952 | 5 | 750 | 1952 | 824,874 | 13,506,231 |
| 1953 | 54 | 5,187 | 1953 | 1,204,518 | 19,527,028 |
| 1954 | 41 | 1,505 | 1954 | 568,732 | 8,939,754 |
| 1955 | 75 | 5,417 | 1955 | 1,136,575 | 17,824,318 |
| 1956 | — | — | 1956 | 531,010 | 8,321,530 |
| 1957 | 14 | 1,480 | 1957 | 783,814 | 12,275,069 |
| 1958 | — | — | 1958 | 128,550 | 2,110,676 |
| 1959 | — | — | 1959 | 128,052 | 2,000,665 |
| 1960 | — | — | 1960 | 2,513,645 | 39,275,703 |
| 1961 | — | — | 1961 | 1,099,701 | 17,265,306 |
| 1962 | — | — | 1962 | 314,996 | 4,932,500 |
| 1963 | — | — | 1963 | 472,132 | 7,388,866 |
| 1964 | — | — | 1964 | 427,203 | 6,691,224 |

[a] Statistics not available prior to 1903.

GOLD—IMPORTS[a]—AUSTRALIA

| Gold Ore and Concentrate | | | Gold Bar, Dust, Sheet, etc. | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | fine oz. | £, f.o.b. |
| 1903 | 1,084 | 12,375 | 1903 | 307,203 | 1,219,852 |
| 1904 | 1,238 | 12,634 | 1904 | 323,212 | 1,168,139 |
| 1905 | 1,066 | 19,182 | 1905 | 381,474 | 1,452,432 |
| 1906 | 1,381 | 17,222 | 1906 | 508,820 | 2,066,063 |
| 1907 | 1,549 | 25,250 | 1907 | 356,180 | 1,426,827 |
| 1908 | 702 | 7,926 | 1908 | 238,940 | 950,575 |
| 1909 | 455 | 6,601 | 1909 | 255,706 | 999,884 |
| 1910 | 304 | 6,605 | 1910 | 240,724 | 978,444 |
| 1911 | 613 | 11,643 | 1911 | 456,971 | 1,609,570 |
| 1912 | 1,264 | 17,365 | 1912 | 286,618 | 1,370,544 |
| 1913 | 1,013 | 21,874 | 1913 | 308,395 | 1,358,407 |
| 1914 | n.a. | n.a. | 1914 | n.a. | n.a. |
| 1914–15 | 2,155 | 20,722 | 1914–15 | 109,214 | 436,127 |
| 1915–16 | 2,192 | 30,061 | 1915–16 | 134,687 | 550,951 |
| 1916–17 | 2,258 | 31,176 | 1916–17 | 49,516 | 197,755 |
| 1917–18 | n.a. | n.a. | 1917–18 | n.a. | 1,481,810 |
| 1918–19 | n.a. | n.a. | 1918–19 | n.a. | 6,970,001 |
| 1919–20 | 169 | 1,673 | 1919–20 | 9,278 | 36,331 |
| 1920–21 | 332 | 5,904 | 1920–21 | 1,961 | 6,749 |
| 1921–22 | 166 | 3,878 | 1921–22 | 3,722 | 6,363 |
| 1922–23 | — | — | 1922–23 | 835 | 3,508 |
| 1923–24 | 85 | 5,239 | 1923–24 | 1,760 | 5,157 |
| 1924–25 | 86 | 1,943 | 1924–25 | 1,846,666 | 10,506,333 |
| 1925–26 | 29 | 1,096 | 1925–26 | 70,525 | 358,462 |
| 1926–27 | 13 | 933 | 1926–27 | 148,222 | 568,520 |
| 1927–28 | 13 | 359 | 1927–28 | 140,040 | 1,011,041 |
| 1928–29 | 12 | 717 | 1928–29 | 130,896 | 348,277 |
| 1929–30 | 1 | 26 | 1929–30 | 89,974 | 293,760 |
| 1930–31 | † | 1 | 1930–31 | 132,919 | 373,799 |
| 1931–32 | — | 5,016 | 1931–32 | 105,485 | 653,724 |

[a] Statistics not available prior to 1903.

GOLD—IMPORTS[a]—AUSTRALIA—*continued*

| Gold Ore and Concentrate | | | Gold Bar, Dust, Sheet, etc. | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | fine oz. | £, f.o.b. |
| 1932–33 | — | — | 1932–33 | 188,223 | 1,141,531 |
| 1933–34 | 5 | 376 | 1933–34 | 184,351 | 1,493,405 |
| 1934–35 | 1 | 251 | 1934–35 | 214,205 | 2,073,781 |
| 1935–36 | 12 | 996 | 1935–36 | 232,270 | 2,022,227 |
| 1936–37 | † | 394 | 1936–37 | 283,976 | 2,487,993 |
| 1937–38 | 20 | 516 | 1937–38 | 314,494 | 2,734,173 |
| 1938–39 | † | 130 | 1938–39 | 376,417 | 3,456,008 |
| 1939–40 | 3 | 237 | 1939–40 | 489,658 | 5,105,938 |
| 1940–41 | 3 | 54 | 1940–41 | 381,969 | 4,075,991 |
| 1941–42 | — | — | 1941–42 | 311,297 | 3,288,877 |
| 1942–43 | — | — | 1942–43 | 153,285 | 1,601,828 |
| 1943–44 | 44 | 7,881 | 1943–44 | 152,905 | 1,598,163 |
| 1944–45 | † | 2,485 | 1944–45 | 134,753 | 1,427,303 |
| 1945–46 | — | — | 1945–46 | 109,287 | 1,176,502 |
| 1946–47 | — | — | 1946–47 | 104,299 | 1,122,577 |
| 1947–48 | n.a. | 70 | 1947–48 | 152,709 | 1,643,606 |
| 1949 | 14 | 918 | 1949 | 116,380 | 1,378,540 |
| 1950 | — | — | 1950 | 158,891 | 2,461,555 |
| 1951 | † | 13 | 1951 | 108,913 | 1,687,511 |
| 1952 | 1 | 18 | 1952 | 286,257 | 4,487,411 |
| 1953 | — | — | 1953 | 158,366 | 2,501,857 |
| 1954 | n.a. | n.a. | 1954 | 211,018 | 3,273,081 |
| 1955 | n.a. | n.a. | 1955 | 150,479 | 2,347,484 |
| 1956 | n.a. | n.a. | 1956 | 201,883 | 3,181,996 |
| 1957 | n.a. | n.a. | 1957 | 159,998 | 2,478,786 |
| 1958 | n.a. | n.a. | 1958 | 160,232 | 2,502,425 |
| 1959 | n.a. | n.a. | 1959 | 136,674 | 2,135,531 |
| 1960 | n.a. | n.a. | 1960 | 144,033 | 2,238,273 |
| 1961 | n.a. | n.a. | 1961 | 146,279 | 2,282,613 |
| 1962 | n.a. | n.a. | 1962 | 132,963 | 2,074,223 |
| 1963 | n.a. | n.a. | 1963 | 162,065 | 2,528,214 |
| 1964 | n.a. | n.a. | 1964 | 144,307 | 2,252,825 |

[a] Statistics not available prior to 1903.

## GOLD PRODUCTION—QUEENSLAND

| Year | Charters Towers and Cape River Goldfields | Mt. Morgan Goldfield | Gympie Goldfield | Palmer Goldfield | Cracow Goldfield | Other Goldfields[a] | Total |
|---|---|---|---|---|---|---|---|
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| Total to end of 1877 | 493,558 | — | 514,981 | 819,697 | — | 454,351 | 2,282,587 |
| 1878 | 59,482 | — | 34,248 | 116,759 | — | 60,065 | 270,554 |
| 1879 | 63,715 | — | 31,684 | 87,399 | — | 60,677 | 243,475 |
| 1880 | 67,773 | — | 35,490 | 61,617 | — | 57,561 | 222,441 |
| 1881 | 65,410 | — | 55,915 | 48,930 | — | 55,176 | 225,431 |
| 1882 | 63,242 | — | 41,456 | 35,161 | — | 45,150 | 185,009 |
| 1883 | 55,264 | 3,209 | 53,408 | 22,684 | — | 38,895 | 173,460 |
| 1884 | 86,228 | 19,822 | 92,327 | 14,265 | — | 37,485 | 250,127 |
| 1885 | 106,981 | 12,879 | 73,828 | 11,704 | — | 44,745 | 250,137 |
| 1886 | 112,166 | 47,957 | 73,004 | 7,783 | — | 38,578 | 279,488 |
| 1887 | 117,603 | 82,338 | 84,168 | 6,327 | — | 58,454 | 348,890 |
| 1888 | 106,839 | 113,704 | 88,263 | 14,886 | — | 74,280 | 397,972 |
| 1889 | 126,666 | 314,356 | 95,243 | 15,282 | — | 83,058 | 634,605 |
| 1890 | 127,426 | 218,372 | 64,571 | 9,436 | — | 94,014 | 531,819 |
| 1891 | 183,830 | 141,685 | 50,027 | 11,230 | — | 91,204 | 477,976 |
| 1892 | 216,679 | 121,514 | 68,705 | 7,611 | — | 95,032 | 509,541 |
| 1893 | 216,660 | 118,291 | 65,540 | 2,960 | — | 106,891 | 510,342 |
| 1894 | 221,544 | 116,295 | 92,581 | 3,124 | — | 115,051 | 548,595 |
| 1895 | 200,916 | 127,793 | 64,999 | 2,381 | — | 110,196 | 506,285 |
| 1896 | 181,923 | 147,853 | 60,615 | 3,815 | — | 107,940 | 502,146 |
| 1897 | 242,641 | 170,368 | 78,873 | 2,351 | — | 106,716 | 600,949 |
| 1898 | 272,368 | 167,933 | 86,251 | 2,909 | — | 118,026 | 647,487 |
| 1899 | 319,572 | 177,422 | 73,147 | 2,708 | — | 89,378 | 662,227 |
| 1900 | 283,237 | 192,980 | 76,309 | 2,415 | — | 121,086 | 676,027 |
| 1901 | 235,302 | 144,936 | 98,675 | 2,483 | — | 116,986 | 598,382 |
| 1902 | 265,244 | 142,826 | 120,662 | 2,421 | — | 109,310 | 640,463 |
| 1903 | 285,771 | 116,672 | 147,622 | 1,606 | — | 116,875 | 668,546 |
| 1904 | 262,018 | 131,020 | 126,710 | 1,376 | — | 118,026 | 639,150 |
| 1905 | 226,696 | 125,960 | 116,342 | 1,130 | — | 122,492 | 592,620 |
| 1906 | 205,632 | 130,024 | 108,916 | 645 | — | 99,419 | 544,636 |
| 1907 | 175,552 | 145,774 | 64,227 | 640 | — | 79,689 | 465,882 |
| 1908 | 162,270 | 151,436 | 62,771 | 1,498 | — | 87,110 | 465,085 |
| 1909 | 171,654 | 143,499 | 65,551 | 685 | — | 74,188 | 455,577 |
| 1910 | 147,484 | 158,553 | 59,205 | 606 | — | 75,552 | 441,400 |
| 1911 | 133,833 | 128,341 | 50,954 | 214 | — | 72,822 | 386,164 |
| 1912 | 96,046 | 137,236 | 39,508 | 278 | — | 74,878 | 347,946 |
| 1913 | 69,982 | 106,283 | 34,855 | 247 | — | 54,368 | 265,735 |
| 1914 | 62,610 | 106,520 | 42,329 | 277 | — | 37,732 | 249,468 |
| 1915 | 56,888 | 120,724 | 41,456 | 389 | — | 30,254 | 249,711 |
| 1916 | 42,772 | 101,323 | 39,381 | 536 | — | 31,150 | 215,162 |
| 1917 | 30,784 | 93,581 | 33,359 | 577 | — | 21,004 | 179,305 |
| 1918 | 17,386 | 79,070 | 19,180 | 174 | — | 17,761 | 133,571 |
| 1919 | 8,095 | 89,905 | 14,539 | 62 | — | 8,429 | 121,030 |
| 1920 | 8,622 | 90,716 | 3,843 | 38 | — | 12,011 | 115,230 |
| 1921 | 6,660 | 17,494 | 6,387 | 6 | — | 9,829 | 40,376 |

[a] Includes the following goldfields: Ravenswood, Croydon, Etheridge, Oaks, Woolgar, Chillagoe, Mt. Coolon, Clermont, Eidsvold, Rockhampton, Cloncurry, Bowen, Gladstone, Coen, Hamilton, Wenlock, Perry and Mt. Perry.

GOLD PRODUCTION—QUEENSLAND—*continued*

| Year | Charters Towers and Cape River Goldfields | Mt. Morgan Goldfield | Gympie Goldfield | Palmer Goldfield | Cracow Goldfield | Other Goldfields[a] | Total |
|---|---|---|---|---|---|---|---|
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| 1922 | 5,016 | 49,568 | 15,678 | 59 | — | 10,263 | 80,584 |
| 1923 | 2,787 | 64,362 | 7,437 | 74 | — | 6,066 | 88,726 |
| 1924 | 1,350 | 76,522 | 5,392 | 27 | — | 15,550 | 98,841 |
| 1925 | 539 | 33,981 | 3,100 | 22 | — | 8,764 | 46,406 |
| 1926 | 238 | 34 | 2,745 | 97 | — | 7,225 | 10,339 |
| 1927 | 297 | 27,679 | 802 | 39 | — | 9,122 | 37,939 |
| 1928 | 147 | 4,375 | 1,596 | 26 | — | 7,133 | 13,277 |
| 1929 | 219 | 95 | 1,417 | 4 | — | 7,741 | 9,476 |
| 1930 | 367 | 919 | 969 | 47 | — | 5,519 | 7,821 |
| 1931 | 1,335 | 1,257 | 1,245 | 970 | — | 8,340 | 13,147 |
| 1932 | 2,415 | 930 | 1,691 | 962 | 277 | 17,288 | 23,263 |
| 1933 | 3,880 | 28,166 | 2,292 | 642 | 1,867 | 55,150 | 91,997 |
| 1934 | 4,670 | 30,511 | 2,440 | 438 | 28,035 | 49,377 | 115,471 |
| 1935 | 5,441 | 36,439 | 3,124 | 268 | 32,068 | 25,650 | 102,990 |
| 1936 | 7,994 | 37,305 | 2,819 | 67 | 30,513 | 42,476 | 121,174 |
| 1937 | 12,933 | 51,079 | 1,960 | 49 | 27,625 | 33,635 | 127,281 |
| 1938 | 12,832 | 64,456 | 1,758 | 77 | 27,995 | 44,314 | 151,432 |
| 1939 | 14,586 | 72,188 | 1,790 | 128 | 24,133 | 34,423 | 147,248 |
| 1940 | 14,097 | 56,805 | 2,422 | 111 | 26,614 | 26,782 | 126,831 |
| 1941 | 10,663 | 44,565 | 2,478 | 367 | 25,060 | 25,931 | 109,064 |
| 1942 | 6,871 | 51,124 | 1,505 | 92 | 16,780 | 18,745 | 95,117 |
| 1943 | 1,945 | 46,282 | 737 | 30 | 5,713 | 8,131 | 62,838 |
| 1944 | 1,795 | 40,043 | 920 | 11 | 4,019 | 4,435 | 51,223 |
| 1945 | 1,766 | 50,454 | 1,319 | 3 | 3,911 | 13,592 | 63,223 |
| 1946 | 2,881 | 49,168 | 1,042 | 4 | 4,394 | 5,244 | 62,733 |
| 1947 | 5,193 | 53,469 | 1,005 | 13 | 7,068 | 5,533 | 72,281 |
| 1948 | 4,610 | 52,796 | 1,312 | 10 | 6,993 | 3,925 | 69,646 |
| 1949 | 3,135 | 59,190 | 1,261 | 7 | 7,279 | 5,410 | 76,282 |
| 1950 | 2,856 | 75,372 | 1,142 | 5 | 4,406 | 4,468 | 88,249 |
| 1951 | 1,782 | 64,108 | 1,056 | 4 | 6,669 | 4,961 | 78,580 |
| 1952 | 377 | 66,940 | 1,409 | 4 | 10,242 | 6,784 | 85,756 |
| 1953 | 474 | 72,298 | 858 | — | 12,769 | 5,488 | 91,887 |
| 1954 | 512 | 79,869 | 332 | 5 | 13,961 | 3,272 | 97,951 |
| 1955 | 859 | 46,953 | 72 | 10 | 15,707 | 721 | 64,322 |
| 1956 | 1,336 | 37,743 | 24 | 15 | 16,135 | 769 | 56,022 |
| 1957 | 1,088 | 44,990 | — | 28 | 16,992 | 265 | 63,363 |
| 1958 | 853 | 57,661 | — | — | 15,550 | 504 | 74,568 |
| 1959 | 581 | 74,986 | — | — | 15,631 | 489 | 91,687 |
| 1960 | 365 | 64,222 | — | — | 13,314 | 366 | 78,267 |
| 1961 | 401 | 49,690 | 3 | 2 | 14,017 | 673 | 64,786 |
| 1962 | 549 | 53,570 | — | — | 13,495 | 115 | 67,729 |
| 1963 | 301 | 53,368 | 120 | — | 13,775 | 1,022 | 68,586 |
| 1964 | 150 | 84,610 | — | — | 13,571 | 2,606 | 100,937 |
| Total | 6,805,510 | 6,770,617 | 3,429,394 | 1,334,039 | 476,578 | 4,174,251 | 22,990,389 |

[a] Includes the following goldfields: Ravenswood, Croydon, Etheridge, Oaks, Woolgar, Chillagoe, Mt. Coolon, Clermont, Eidsvold, Rockhampton, Cloncurry, Bowen, Gladstone, Coen, Hamilton, Wenlock, Perry and Mt. Perry.

## GOLD PRODUCTION—NEW SOUTH WALES

| Year | East[a] | North-East[b] | Central-West[c] | West | | | South-East[d] | South[f] | Total[g] |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Cobar | Broken Hill | Others | | | |
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| Total to 1881 | n.a. | [i]33,378 | [i]1,627,796 | — | — | n.a. | [i]44,717 | n.a. | 8,088,308 |
| 1882 | 8,282 | 12,024 | 46,431 | — | — | 4,350 | 16,823 | 50,928 | 123,954 |
| 1883 | 4,694 | 12,508 | 44,681 | — | — | 2,910 | 12,757 | 27,521 | 107,947 |
| 1884 | 4,989 | 10,083 | 54,839 | — | — | 2,527 | [i]12,127 | 27,875 | 93,240 |
| 1885 | 1,237 | 7,987 | 40,032 | — | — | 1,712 | 13,103 | 16,894 | 89,145 |
| 1886 | 2,165 | 11,303 | 51,278 | — | — | 3,839 | [i]9,399 | 11,667 | 86,233 |
| 1887 | 1,112 | 9,683 | 53,004 | — | — | 4,709 | [i]11,103 | 7,730 | 92,892 |
| 1888 | 3,009 | 15,898 | 37,043 | 21 | — | 1,506 | 10,773 | 4,466 | 74,685 |
| 1889 | 3,135 | 35,993 | 47,680 | 1,534 | — | 2,151 | 16,012 | 5,879 | 102,357 |
| 1890 | 4,096 | 25,434 | 61,924 | 1,752 | — | 2,210 | 13,211 | 7,315 | 108,360 |
| 1891 | 1,881 | 43,990 | 66,438 | 2,635 | 5,277 | 2,701 | 16,883 | 7,214 | 131,654 |
| 1892 | 5,638 | 52,035 | 64,141 | 1,512 | n.a. | 1,185 | 18,145 | 6,727 | 135,437 |
| 1893 | 3,384 | 51,839 | 75,528 | 3,824 | 3,279 | 4,784 | 17,956 | 10,035 | 153,326 |
| 1894 | 2,533 | 54,917 | 118,052 | 18,524 | 4,079 | 5,755 | 26,504 | 14,725 | 272,314 |
| 1895 | 1,804 | 57,315 | 192,800 | 10,000 | 4,650 | 4,001 | [i]24,140 | 19,849 | 309,796 |
| 1896 | 5,890 | 61,229 | 143,189 | 25,750 | 4,389 | 5,584 | 23,475 | 18,377 | 252,690 |
| 1897 | 4,599 | 58,414 | 129,346 | 26,211 | 3,775 | 2,353 | 20,813 | 32,150 | 259,978 |
| 1898 | 4,775 | 46,461 | 158,712 | 22,253 | 1,067 | 1,724 | 32,203 | 33,147 | 282,914 |
| 1899 | 2,795 | 43,035 | 140,014 | 24,073 | 474 | 4,388 | 27,467 | 36,046 | 382,162 |
| 1900 | 1,989 | 37,616 | 114,994 | 44,676 | 753 | 1,977 | 23,053 | 35,546 | 252,116 |
| 1901 | 1,433 | 25,127 | 87,732 | 42,299 | 372 | 1,456 | 36,932 | 26,291 | 173,543 |
| 1902 | 1,258 | 17,071 | 88,437 | 26,956 | 15 | 946 | 33,122 | 24,471 | 161,256 |
| 1903 | 1,354 | 17,793 | 99,607 | 79,859 | 2,135 | 877 | 38,756 | 24,214 | 254,260 |
| 1904 | 2,207 | 30,356 | 114,923 | 69,140 | 2,039 | 993 | 41,932 | 19,630 | 269,817 |
| 1905 | 2,101 | 29,425 | 114,605 | 70,109 | 3,074 | 736 | 30,911 | 17,855 | 274,267 |
| 1906 | 2,521 | 18,827 | 102,453 | 25,914 | 2,041 | 43,244 | 29,073 | 16,506 | 253,987 |
| 1907 | 1,583 | 16,870 | 90,511 | 26,955 | 2,069 | 31,789 | 24,413 | 19,305 | 247,363 |
| 1908 | 1,517 | 16,774 | 81,604 | 33,507 | 1,849 | 49,334 | 26,956 | 18,956 | 224,792 |
| 1909 | 1,752 | 9,647 | 70,164 | 35,000 | 1,517 | 43,746 | 20,034 | 23,476 | 204,709 |
| 1910 | 1,591 | 13,293 | 52,361 | 37,101 | 1,852 | 31,858 | 22,625 | 13,195 | 188,857 |
| 1911 | 1,395 | 16,054 | 42,054 | 42,596 | 2,295 | 26,353 | 21,435 | 14,631 | 181,121 |
| 1912 | 1,652 | 11,174 | 44,732 | 51,175 | 1,666 | 17,412 | 18,882 | 16,463 | 165,295 |
| 1913 | 1,222 | 8,809 | 33,105 | 43,487 | 2,047 | 25,299 | 15,605 | 16,001 | 149,657 |
| 1914 | 1,327 | 8,419 | 25,667 | 17,868 | 2,282 | 30,805 | 16,310 | 19,001 | 124,507 |
| 1915 | 1,121 | 2,839 | 27,823 | 10,965 | [h]951 | 28,554 | 12,562 | 16,364 | 132,498 |
| 1916 | 476 | 3,643 | 25,531 | 7,011 | [h]9,018 | 20,548 | 9,018 | 15,367 | 108,145 |
| 1917 | 739 | 3,091 | 18,887 | 21,487 | [h]9,434 | 2,008 | 9,990 | 19,705 | 82,171 |
| 1918 | 979 | 2,940 | 12,056 | 14,630 | [h]12,249 | 15,552 | 8,170 | 15,594 | 87,045 |
| 1919 | 1,042 | 4,852 | 8,700 | 1,403 | [h]4,884 | 5,952 | 3,954 | 18,355 | 65,839 |
| 1920 | 659 | 2,059 | 6,838 | 737 | — | 10,641 | 2,834 | 14,652 | 48,908 |
| 1921 | 1,001 | 2,147 | 7,053 | 676 | [h]248 | 8,747 | 2,180 | 12,958 | 51,173 |

[a] Includes the following regions:—Upper Hunter, Oxley and Sydney. [b] Includes the following regions:—New England, Richmond-Tweed, Namoi and Clarence. [c] Includes the following regions:—Mitchell, Macquarie and Lachlan. [d] Includes the following regions:—Southern Tableland, Illawarra and Monaro-South Coast. [f] Includes the following regions:—Murrumbidgee and Upper Murray. [g] Not necessarily in agreement with previous columns. [h] Gold recovered by BHAS at Port Pirie from Broken Hill ores and concentrates.

GOLD PRODUCTION—NEW SOUTH WALES—*continued*

| Year | East[a] | North-East[b] | Central-West[c] | West | | | South-East[d] | South[f] | Total[g] |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Cobar | Broken Hill | Others | | | |
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| 1922 | 1,175 | 651 | 6,014 | — | [h]1,651 | 3,127 | 1,303 | 9,018 | 25,222 |
| 1923 | 959 | 584 | 2,195 | — | [h]4,016 | 97 | 1,296 | 8,352 | 18,833 |
| 1924 | 890 | 885 | 3,374 | — | [h]3,159 | 147 | 996 | 11,139 | 18,685 |
| 1925 | 316 | 557 | 4,912 | 140 | [h]2,034 | 5 | 573 | 12,142 | 19,422 |
| 1926 | 808 | 619 | 2,178 | 123 | [h]3,360 | 115 | 344 | 10,411 | 19,435 |
| 1927 | 854 | 579 | 1,208 | 60 | [h]7,858 | 226 | 657 | 7,852 | 18,032 |
| 1928 | 496 | 437 | 1,585 | 14 | [h]5,462 | 23 | 408 | 1,960 | 12,831 |
| 1929 | 249 | 878 | 777 | — | [h]3,621 | 803 | 950 | 29 | 7,496 |
| 1930 | 776 | 1,124 | 3,589 | — | [h]7,194 | 267 | 917 | 299 | 12,493 |
| 1931 | 1,193 | 3,608 | 6,919 | 37 | [h]3,702 | 360 | 1,707 | 1,718 | 19,673 |
| 1932 | 754 | 5,354 | 9,533 | 33 | [h]3,530 | 328 | 1,682 | 2,284 | 27,491 |
| 1933 | 1,387 | 4,118 | 13,520 | 10 | [h]6,279 | 80 | 2,911 | 3,178 | 29,252 |
| 1934 | 1,842 | 3,497 | 24,092 | 7 | [h]5,103 | 127 | 2,933 | 4,158 | 36,123 |
| 1935 | 782 | 3,160 | 19,617 | 11,531 | [h]5,249 | 431 | 3,609 | 6,348 | 50,102 |
| 1936 | 967 | 2,390 | 12,614 | 26,390 | [h]5,862 | 893 | 4,289 | 5,399 | 60,739 |
| 1937 | 526 | 4,198 | 9,430 | 32,149 | [h]9,899 | 101 | 3,425 | 3,425 | 68,607 |
| 1938 | 480 | 4,787 | 10,997 | 47,322 | [h]8,714 | 141 | 2,225 | 5,192 | 88,698 |
| 1939–45 | 960 | 14,884 | 89,147 | 295,961 | [h]68,906 | 4,790 | 57,580 | 7,526 | 522,302 |
| 1946 | 43 | 84 | 6,499 | 25,547 | [h]9,752 | 5 | 4,071 | 31 | 32,009 |
| 1947 | 25 | 71 | 9,455 | 29,497 | [h]11,445 | 3 | 4,965 | 17 | 50,082 |
| 1948 | 5 | 179 | 13,029 | 33,920 | [h]5,244 | — | 3,379 | 6 | 52,164 |
| 1949 | — | 219 | 12,433 | 36,165 | [h]4,759 | — | 1,370 | 44 | 51,793 |
| 1950 | 11 | 235 | 8,396 | 29,794 | 6,608 | — | 5,129 | 17 | 51,350 |
| 1951 | 5 | 190 | 9,383 | 28,342 | 5,686 | — | 4,624 | 20 | 48,910 |
| 1952 | 10 | 277 | 10,358 | 17,878 | 7,429 | — | 4,562 | 10 | 39,030 |
| 1953 | 17 | 133 | 13,528 | 1,113 | 7,569 | — | 4,753 | 5 | 26,461 |
| 1954 | 7 | 80 | 20,431 | — | 8,199 | 7 | 2,094 | 161 | 31,374 |
| 1955 | 2 | 101 | 16,972 | — | 7,415 | — | 4,524 | 14 | 30,067 |
| 1956 | — | 188 | 1,916 | — | 7,754 | 6 | 5,332 | 5 | 28,821 |
| 1957 | — | 29 | 16,735 | — | 9,112 | 36 | 5,098 | 6 | 31,043 |
| 1958 | 20 | 33 | 4,515 | — | 8,483 | — | 5,560 | — | 18,709 |
| 1959 | — | 35 | 245 | — | 8,136 | — | 4,676 | — | 13,275 |
| 1960 | — | 60 | 242 | — | 7,401 | — | 5,113 | — | 13,628 |
| 1961 | — | 168 | 270 | 5 | 6,808 | — | 4,499 | — | 12,034 |
| 1962 | 41 | 187 | 124 | — | 10,072 | — | 767 | 1 | 11,234 |
| 1963 | 1 | 67 | 122 | — | 11,075 | — | 25 | — | 11,395 |
| 1964 | — | 43 | 782 | — | 9,920 | — | 13 | — | 10,569 |
| Total | 112,538 | 997,041 | 4,791,901 | 1,457,678 | 388,246 | 469,334 | 974,717 | 857,868 | 16,468,552 |

[a] Includes the following regions:—Upper Hunter, Oxley, and Sydney. [b] Includes the following regions:—New England, Richmond-Tweed, Namoi, and Clarence. [c] Includes the following regions:—Mitchell, Macquarie, and Lachlan. [d] Includes the following regions:—Southern Tableland, Illawarra, and Monaro-South Coast. [f] Includes the following regions:—Murrumbidgee and Upper Murray. [g] Not necessarily in agreement with previous columns. [h] Gold recovered by BHAS at Port Pirie from Broken Hill ores and concentrates.

## GOLD PRODUCTION—VICTORIA

| Year | Ararat District | Ballarat District | Beechworth District | Bendigo District | Castlemaine District | Gippsland District | Maryborough District | Total |
|---|---|---|---|---|---|---|---|---|
| | gross oz. | gross oz. | gross oz. | gross oz. | gross oz. | gross oz. | gross oz. | fine oz. |
| Total to 1884 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 49,198,416 |
| 1884 | 35,974 | 237,073 | 58,493 | 215,747 | 96,332 | 57,168 | 77,828 | 733,209 |
| 1885 | 29,095 | 227,879 | 46,127 | 211,260 | 79,752 | 65,889 | 75,212 | 692,340 |
| 1886 | 23,159 | 191,462 | 56,339 | 176,691 | 79,931 | 60,455 | 77,156 | 626,402 |
| 1887 | 25,417 | 172,157 | 49,528 | 157,169 | 76,001 | 52,155 | 85,321 | 581,724 |
| 1888 | 21,007 | 187,426 | 61,862 | 162,863 | 61,620 | 51,209 | 79,025 | 588,574 |
| 1889 | 19,822 | 215,664 | 54,393 | 141,521 | 60,934 | 43,103 | 79,400 | 578,981 |
| 1890 | 21,208 | 210,433 | 59,981 | 137,964 | 57,740 | 39,591 | 61,640 | 554,235 |
| 1891 | 15,904 | 202,740 | 62,444 | 145,556 | 50,938 | 38,727 | 60,088 | 542,783 |
| 1892 | 21,180 | 210,601 | 65,408 | 198,009 | 59,294 | 39,919 | 60,042 | 616,288 |
| 1893 | 23,011 | 207,817 | 77,594 | 193,699 | 65,454 | 53,367 | 50,182 | 631,986 |
| 1894 | 27,590 | 194,820 | 95,995 | 159,710 | 64,886 | 66,289 | 64,387 | 675,141 |
| 1895 | 32,052 | 166,215 | 96,409 | 159,414 | 66,087 | 92,280 | 81,376 | 696,924 |
| 1896 | 28,200 | 160,317 | 110,085 | 191,941 | 61,795 | 116,055 | 74,084 | 758,134 |
| 1897 | 32,834 | 178,910 | 123,785 | 200,323 | 62,608 | 115,159 | 59,601 | 765,366 |
| 1898 | 38,906 | 186,696 | 111,703 | 214,204 | 71,777 | 106,793 | 54,339 | 788,428 |
| 1899 | 28,789 | 208,920 | 104,279 | 235,596 | 77,421 | 84,144 | 56,635 | 804,666 |
| 1900 | 38,710 | 194,478 | 104,440 | 290,615 | 80,773 | 76,538 | 57,680 | 760,319 |
| 1901 | 42,142 | 169,433 | 114,331 | 212,026 | 68,002 | 54,525 | 70,378 | 730,453 |
| 1902 | 38,574 | 172,599 | 96,518 | 190,165 | 73,866 | 76,612 | 84,327 | 720,866 |
| 1903 | 31,230 | 174,816 | 116,886 | 224,747 | 74,322 | 61,787 | 90,429 | 767,297 |
| 1904 | 24,543 | 148,972 | 122,585 | 242,880 | 77,169 | 66,721 | 85,149 | 765,600 |
| 1905 | 23,651 | 145,331 | 133,587 | 212,465 | 90,205 | 73,633 | 85,768 | 747,166 |
| 1906 | 24,899 | 164,065 | 134,812 | 221,186 | 99,386 | 97,180 | 80,267 | 772,290 |
| 1907 | 21,270 | 148,067 | 129,261 | 196,464 | 102,389 | 75,181 | 81,200 | 695,576 |
| 1908 | 15,678 | 140,975 | 127,637 | 199,912 | 84,060 | 66,016 | 75,220 | 671,209 |
| 1909 | 18,644 | 135,324 | 120,875 | 219,642 | 76,189 | 49,857 | 80,883 | 654,222 |
| 1910 | 19,731 | 102,125 | 105,393 | 179,150 | 74,423 | 39,221 | 73,487 | 570,383 |
| 1911 | 21,975 | 80,588 | 98,695 | 168,660 | 73,902 | 32,251 | 67,629 | 504,000 |
| 1912 | 19,542 | 64,349 | 85,744 | 172,015 | 72,545 | 22,915 | 68,206 | 480,131 |
| 1913 | 35,573 | 56,600 | 73,717 | 165,273 | 73,246 | 20,288 | 46,583 | 434,933 |
| 1914 | 36,593 | 58,603 | 64,549 | 158,483 | 58,701 | 14,306 | 39,158 | 413,218 |
| 1915 | 32,791 | 43,445 | 61,411 | 122,549 | 45,884 | 8,983 | 31,751 | 329,068 |
| 1916 | 29,387 | 27,468 | 57,238 | 91,781 | 44,103 | 7,834 | 24,983 | 256,643 |
| 1917 | 14,437 | 20,059 | 51,212 | 66,074 | 38,852 | 8,404 | 13,116 | 201,872 |
| 1918 | 5,643 | 10,981 | 43,054 | 81,636 | 24,955 | 6,250 | 12,616 | 158,827 |
| 1919 | 9,038 | 7,939 | 30,945 | 64,649 | 16,400 | 6,490 | 5,568 | 135,428 |
| 1920 | 9,850 | 5,350 | 40,423 | 87,861 | 17,773 | 3,800 | 1,568 | 152,792 |
| 1921 | 4,890 | 7,637 | 30,480 | 62,093 | 5,818 | 2,833 | 1,128 | 104,512 |
| 1922 | 4,830 | 2,812 | 34,066 | 53,451 | 18,687 | 2,694 | 1,407 | 106,872 |
| 1923 | 5,163 | 1,792 | 32,938 | 45,257 | 17,514 | 1,667 | 864 | 95,403 |
| 1924 | 2,871 | 2,120 | 25,478 | 28,537 | 13,551 | 1,378 | 1,183 | 67,167 |
| 1925 | 3,763 | 1,978 | 17,475 | 17,684 | 8,723 | 266 | 1,827 | 47,296 |
| 1926 | 1,527 | 2,186 | 19,289 | 16,782 | 11,997 | 1,315 | 923 | 49,078 |
| 1927 | 157 | 2,224 | 13,860 | 12,945 | 8,702 | 3,235 | 697 | 38,538 |

GOLD PRODUCTION—VICTORIA—*continued*

| Year | Ararat District | Ballarat District | Beechworth District | Bendigo District | Castlemaine District | Gippsland District | Maryborough District | Total |
|---|---|---|---|---|---|---|---|---|
| | gross oz. | gross oz. | gross oz. | gross oz. | gross oz. | gross oz. | gross oz. | fine oz. |
| 1928 | 300 | 1,081 | 11,631 | 17,673 | 5,126 | 823 | 646 | 33,917 |
| 1929 | 400 | 770 | 8,872 | 13,935 | 2,890 | 1,165 | 750 | 26,275 |
| 1930 | 590 | 1,017 | 6,404 | 14,615 | 2,226 | 423 | 815 | 24,119 |
| 1931 | 1,076 | 7,354 | 5,314 | 19,211 | 8,554 | 1,244 | 4,685 | 43,637 |
| 1932 | 811 | 7,019 | 3,430 | 26,341 | 10,414 | 2,141 | 3,700 | 47,745 |
| 1933 | 1,113 | 8,679 | 4,110 | 30,200 | 13,534 | 2,642 | 4,100 | 58,183 |
| 1934 | 756 | 15,510 | 12,431 | 31,969 | 11,560 | 3,325 | 5,172 | 70,196 |
| 1935 | 1,425 | 20,027 | 16,642 | 34,917 | 14,899 | 6,265 | 6,303 | 87,609 |
| 1936 | 1,698 | 27,026 | 24,062 | 39,374 | 19,833 | 8,146 | 8,667 | 117,596 |
| 1937 | 2,114 | 17,037 | 33,149 | 40,696 | 40,900 | 9,080 | 17,595 | 145,799 |
| 1938 | 2,065 | 14,235 | 35,105 | 38,898 | 40,536 | 8,762 | 21,513 | 144,243 |
| 1939 | 1,423 | 9,699 | 39,116 | 53,369 | 48,831 | 4,338 | 15,329 | 156,522 |
| 1940 | 2,212 | 13,669 | 38,197 | 61,835 | 58,256 | 5,993 | 17,425 | 180,567 |
| 1941 | 1,637 | 8,992 | 22,911 | 70,611 | 44,803 | 5,740 | 10,387 | 149,769 |
| 1942 | 684 | 5,820 | 22,382 | 44,541 | 25,609 | 4,473 | 10,817 | 101,497 |
| 1943 | 63 | 3,009 | 18,203 | 15,616 | 20,703 | 4,321 | 2,396 | 56,511 |
| 1944 | 217 | 1,982 | 28,058 | 11,648 | 15,442 | 3,990 | 302 | 54,086 |
| 1945 | 68 | 1,897 | 34,157 | 19,828 | 20,600 | 2,783 | 1,932 | 61,790 |
| 1946 | 170 | 4,056 | 42,058 | 32,840 | 13,669 | 3,392 | 2,172 | 86,993 |
| 1947 | 118 | 4,186 | 51,377 | 20,509 | 12,843 | 4,009 | 2,265 | 84,709 |
| 1948 | 91 | 785 | 45,311 | 15,858 | 10,847 | 3,457 | 3,233 | 68,580 |
| 1949 | 116 | 1,540 | 47,503 | 15,512 | 11,241 | 2,987 | 3,236 | 68,426 |
| 1950 | 146 | 1,725 | 26,417 | 16,059 | 17,198 | 3,104 | 3,177 | 67,826 |
| 1951 | 95 | 1,025 | 31,519 | 11,692 | 17,958 | 2,331 | 1,443 | 66,063 |
| 1952 | 412 | | 42,698 | 12,190 | 17,027 | 1,437 | 4,651 | 66,777 |
| 1953 | — | — | 45,144 | 6,029 | 15,258 | 562 | 8,066 | 63,917 |
| 1954 | — | — | 33,058 | 5,180 | 14,706 | 1,198 | 5,373 | 52,665 |
| 1955 | — | 47 | 19,017 | 1,921 | 18,652 | 825 | 5,607 | 38,035 |
| 1956 | — | 109 | 11,241 | 219 | 17,270 | 320 | 6,552 | 38,846 |
| 1957 | — | 37 | 22,742 | 384 | 22,362 | 1,534 | 1,790 | 45,752 |
| 1958 | 6 | 2,121 | 20,369 | 165 | 23,277 | 783 | 1,068 | 41,476 |
| 1959 | — | 1,044 | 14,886 | 60 | 17,453 | 1,272 | 160 | 34,662 |
| 1960 | — | 2,184 | 6,334 | — | 17,415 | 1,595 | 240 | 28,566 |
| 1961 | — | 691 | 9,868 | — | 13,817 | 1,000 | 81 | 26,229 |
| 1962 | — | 1,183 | 13,304 | — | 11,951 | 1,686 | 282 | 28,262 |
| 1963 | — | 293 | 13,547 | 263 | 8,178 | 2,342 | 145 | 24,668 |
| 1964 | — | 71 | 6,403 | 62 | 11,719 | 2,969 | 20 | 21,284 |
| Total 1884–1964 | 980,644 | 5,434,903 | 4,172,092 | 7,349,869 | 3,211,032 | 2,074,445 | 2,462,085 | 24,580,137 |
| Total 1851–1964 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 73,778,553 |

## GOLD PRODUCTION—TASMANIA

| Year | North-East | | West Coast | | Miscellaneous[a] | Total |
|---|---|---|---|---|---|---|
| | Beaconsfield | Others | Mt. Lyell | Read-Rosebery | | |
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| 1851–65 | n.a. | n.a. | n.a. | — | n.a. | 1,101 |
| 1866–90 | 330,530 | 217,611 | 30,087 | — | n.a. | 524,307 |
| 1891–97 | n.a. | n.a. | n.a. | — | n.a. | 330,313 |
| 1898 | 24,570 | 24,056 | 1,189 | — | n.a. | 68,624 |
| 1899 | 29,886 | 25,179 | 663 | — | n.a. | 77,111 |
| 1900 | 28,813 | 26,089 | — | — | — | 74,445 |
| 1901 | 34,826 | 19,287 | — | — | — | 69,491 |
| 1902 | 27,154 | 19,320 | 29,179 | — | 25 | 70,996 |
| 1903 | 17,287 | 16,100 | 29,508 | — | 52 | 59,892 |
| 1904 | 18,798 | 19,477 | 30,972 | — | 46 | 65,921 |
| 1905 | 36,450 | 12,170 | 26,737 | — | 22 | 73,540 |
| 1906 | 30,484 | 3,703 | 25,154 | — | 2 | 60,023 |
| 1907 | 35,820 | 6,961 | 24,546 | — | — | 65,354 |
| 1908 | 30,127 | 5,425 | 22,085 | — | — | 57,085 |
| 1909 | 22,033 | 4,143 | 18,875 | — | — | 47,777 |
| 1910 | 22,765 | 2,457 | 11,978 | — | — | 37,048 |
| 1911 | 21,474 | 1,890 | 8,004 | — | — | 31,101 |
| 1912 | 21,055 | 848 | 16,124 | — | — | 37,973 |
| 1913 | 19,976 | 1,403 | 12,018 | — | — | 33,400 |
| 1914 | 15,405 | 1,374 | 9,927 | — | — | 26,243 |
| 1915 | 4,722 | 4,502 | 9,955 | — | — | 18,547 |
| 1916 | 4,671 | 2,720 | 8,835 | — | — | 15,790 |
| 1917 | 5,976 | 1,349 | 7,413 | — | — | 14,496 |
| 1918 | 2,042 | 2,453 | 6,368 | — | 36 | 10,529 |
| 1919 | 572 | 2,018 | 5,466 | — | 101 | 7,686 |
| 1920 | 9 | 814 | 5,318 | — | 225 | 6,246 |
| 1921 | 121 | 842 | 4,714 | — | 85 | 5,340 |
| 1922 | 219 | 970 | 2,116 | — | 125 | 3,431 |
| 1923 | 206 | 1,284 | 2,034 | — | 160 | 3,684 |
| 1924 | 82 | 2,196 | 2,226 | — | 121 | 4,626 |
| 1925 | 309 | 809 | 2,264 | — | 142 | 3,524 |
| 1926 | — | 1,541 | 2,306 | — | 131 | 4,223 |
| 1927 | — | 4 | 2,799 | — | — | 4,861 |
| 1928 | — | 646 | 2,915 | — | — | 3,603 |
| 1929 | 371 | 667 | 4,504 | — | 1 | 5,597 |
| 1930 | — | 387 | 3,794 | — | — | 4,467 |

[a] Includes Mt. Claude and Bell Mount in the Middlesex District.

GOLD PRODUCTION—TASMANIA—*continued*

| Year | North-East | | West Coast | | Miscellaneous[a] | Total |
|---|---|---|---|---|---|---|
| | Beaconsfield | Others | Mt. Lyell | Read-Rosebery | | |
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| 1931 | — | 277 | 3,796 | — | — | 4,760 |
| 1932 | 53 | — | 4,929 | — | — | 5,937 |
| 1933 | 79 | 782 | 5,637 | — | 28 | 6,673 |
| 1934 | 152 | 408 | 4,892 | — | 11 | 5,622 |
| 1935 | 170 | 481 | 7,208 | — | 90 | 8,343 |
| 1936 | 699 | 352 | 7,216 | n.a. | 216 | 17,600 |
| 1937 | 2,455 | 490 | 6,339 | 10,522 | — | 20,276 |
| 1938 | 1,053 | 395 | 7,967 | 12,292 | 138 | 22,200 |
| 1939 | 4 | 369 | 7,568 | 11,713 | — | 19,984 |
| 1940 | — | 595 | 7,310 | 11,262 | — | 19,171 |
| 1941 | 14 | 572 | 8,035 | 10,549 | 6 | 19,908 |
| 1942 | 3 | 1,056 | 7,282 | 9,884 | — | 18,353 |
| 1943 | — | 478 | 7,220 | 9,519 | — | 17,245 |
| 1944 | — | 452 | 6,443 | 9,745 | — | 16,653 |
| 1945 | 6 | 697 | 4,854 | 7,479 | — | 13,050 |
| 1946 | — | 1,172 | 6,141 | 8,049 | — | 15,362 |
| 1947 | — | 754 | 5,402 | 8,896 | — | 15,051 |
| 1948 | — | 734 | 4,052 | 8,120 | — | 12,905 |
| 1949 | † | 251 | 3,019 | 8,882 | — | 12,152 |
| 1950 | — | 376 | 4,595 | 10,585 | 22 | 15,578 |
| 1951 | — | 563 | 4,856 | 9,027 | † | 14,446 |
| 1952 | † | 370 | 5,038 | 10,664 | — | 16,072 |
| 1953 | 1 | 467 | 5,460 | 11,060 | — | 16,988 |
| 1954 | — | 487 | 5,678 | 13,203 | — | 19,368 |
| 1955 | — | 405 | 4,641 | 11,836 | — | 16,882 |
| 1956 | — | 223 | 4,391 | 12,517 | — | 17,131 |
| 1957 | † | 196 | 6,171 | 13,660 | — | 20,027 |
| 1958 | — | 151 | 6,015 | 15,578 | — | 21,744 |
| 1959 | — | 112 | 6,915 | 14,326 | — | 21,353 |
| 1960 | — | 307 | 7,188 | 16,499 | — | 23,994 |
| 1961 | — | 446 | 7,242 | 19,200 | — | 26,885 |
| 1962 | — | 414 | 7,453 | 24,248 | — | 32,115 |
| 1963 | — | 165 | 10,305 | 25,952 | — | 36,422 |
| 1964 | — | 97 | 7,841 | 26,443 | — | 34,381 |
| Total | [i]791,441 | [i]396,988 | [i]507,963 | [i]198,443 | 1,763 | 2,530,026 |

[a] Includes Mt. Claude and Bell Mount in the Middlesex District.

## GOLD PRODUCTION—WESTERN AUSTRALIA

| Year | East Coolgardie | Murchison and East Murchison | Mt. Margaret | North Coolgardie and Coolgardie | Yilgarn | Dundas | Miscellaneous[a] | Total[b] |
|---|---|---|---|---|---|---|---|---|
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| 1886 | — | — | — | — | — | — | 270 | 270 |
| 1887 | — | — | — | — | — | — | 4,359 | 4,359 |
| 1888 | — | — | — | — | — | — | 3,125 | 3,125 |
| 1889 | — | — | — | — | 1,663 | — | 12,197 | 13,860 |
| 1890 | — | — | — | — | 2,037 | — | 18,365 | 20,402 |
| 1891 | — | 1,847 | — | — | 11,481 | — | 13,788 | 27,116 |
| 1892 | — | 21,789 | — | — | 18,974 | — | 12,509 | 53,272 |
| 1893 | — | 18,975 | — | — | 67,761 | 132 | 12,334 | 99,203 |
| 1894 | — | 47,366 | — | 94,228 | 28,178 | 204 | 15,323 | 185,299 |
| 1895 | — | 58,576 | — | 111,919 | 17,666 | 216 | 18,733 | 207,110 |
| 1896 | 76,297 | 63,769 | — | 76,836 | 14,819 | 3,892 | 15,642 | 251,619 |
| 1897 | 268,412 | 82,612 | 7,770 | 160,010 | 16,098 | 17,275 | 51,670 | 603,846 |
| 1898 | 402,847 | 119,187 | 38,706 | 176,998 | 10,463 | 28,656 | 162,631 | 939,490 |
| 1899 | 826,264 | 120,849 | 73,193 | 220,839 | 15,034 | 40,404 | 174,021 | 1,470,606 |
| 1900 | 725,434 | 149,456 | 126,606 | 202,156 | 26,317 | 36,399 | 147,943 | 1,414,312 |
| 1901 | 936,883 | 201,484 | 180,193 | 209,731 | 26,727 | 35,164 | 113,234 | 1,703,417 |
| 1902 | 1,007,427 | 261,692 | 186,153 | 244,680 | 22,236 | 31,115 | 117,734 | 1,871,038 |
| 1903 | 1,151,238 | 295,573 | 190,853 | 245,503 | 22,761 | 35,217 | 123,658 | 2,064,803 |
| 1904 | 1,139,596 | 303,762 | 183,071 | 203,306 | 29,994 | 33,181 | 90,318 | 1,983,231 |
| 1905 | 1,092,358 | 315,010 | 188,153 | 209,053 | 25,291 | 28,736 | 96,625 | 1,955,317 |
| 1906 | 1,067,193 | 284,419 | 158,892 | 169,610 | 25,571 | 21,310 | 67,373 | 1,794,548 |
| 1907 | 966,689 | 290,936 | 178,049 | 148,663 | 23,311 | 22,831 | 67,073 | 1,697,555 |
| 1908 | 925,686 | 304,753 | 167,204 | 125,256 | 20,866 | 41,203 | 62,942 | 1,647,912 |
| 1909 | 927,074 | 280,088 | 160,038 | 109,684 | 21,163 | 35,895 | 61,328 | 1,595,270 |
| 1910 | 832,274 | 269,731 | 160,483 | 101,040 | 24,049 | 43,261 | 39,792 | 1,470,633 |
| 1911 | 809,547 | 219,720 | 152,584 | 94,321 | 14,688 | 48,361 | 30,548 | 1,370,868 |
| 1912 | 788,785 | 202,020 | 106,190 | 92,328 | 27,439 | 38,373 | 27,523 | 1,282,659 |
| 1913 | 792,672 | 201,762 | 89,566 | 96,449 | 73,368 | 27,090 | 33,136 | 1,314,043 |
| 1914 | 718,002 | 184,230 | 103,735 | 95,901 | 85,511 | 27,804 | 17,792 | 1,232,977 |
| 1915 | 714,555 | 158,475 | 108,003 | 74,601 | 90,706 | 24,149 | 39,625 | 1,210,112 |
| 1916 | 641,620 | 115,251 | 111,920 | 52,096 | 84,801 | 21,956 | 33,755 | 1,061,398 |
| 1917 | 606,983 | 103,169 | 111,358 | 34,807 | 74,399 | 19,346 | 20,255 | 970,317 |
| 1918 | 570,655 | 76,460 | 95,186 | 37,001 | 68,702 | 16,216 | 12,290 | 876,511 |
| 1919 | 466,359 | 65,191 | 95,130 | 25,453 | 60,140 | 13,632 | 8,161 | 734,066 |
| 1920 | 405,048 | 57,273 | 82,977 | 15,252 | 38,160 | 7,157 | 11,975 | 617,842 |
| 1921 | 432,032 | 51,187 | 27,703 | 10,381 | 22,294 | 4,961 | 5,172 | 553,731 |
| 1922 | 418,611 | 42,134 | 31,094 | 11,936 | 14,705 | 3,799 | 15,967 | 538,246 |
| 1923 | 408,126 | 33,543 | 33,515 | 10,831 | 7,517 | 535 | 10,446 | 504,511 |
| 1924 | 376,283 | 27,519 | 41,080 | 16,197 | 8,719 | 2,128 | 13,109 | 485,035 |
| 1925 | 338,309 | 29,374 | 38,387 | 8,118 | 12,987 | 1,504 | 12,572 | 441,252 |
| 1926 | 329,692 | 34,519 | 41,927 | 4,669 | 10,776 | 2,361 | 13,398 | 437,343 |

[a] Includes the following goldfields:—Kimberley, Pilbara, West Pilbara, Ashburton, Gascoyne, Peak Hill, Yalgoo, Broad Arrow, North-East Coolgardie, Phillips River, Donybrook and includes also production outside proclaimed goldfield. [b] Not necessarily in agreement with previous columns.

GOLD PRODUCTION—WESTERN AUSTRALIA—*continued*

| Year | East Coolgardie | Murchison and East Murchison | Mt. Margaret | North Coolgardie and Coolgardie | Yilgarn | Dundas | Miscellaneous[a] | Total[b] |
|---|---|---|---|---|---|---|---|---|
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| 1927 | 303,616 | 33,859 | 37,488 | 5,529 | 8,246 | 4,994 | 14,621 | 408,353 |
| 1928 | 306,282 | 26,166 | 33,018 | 6,926 | 4,953 | 5,028 | 11,033 | 393,408 |
| 1929 | 282,550 | 27,193 | 32,779 | 7,199 | 4,701 | 1,651 | 15,991 | 377,176 |
| 1930 | 328,626 | 23,579 | 39,465 | 10,735 | 6,373 | 2,014 | 8,975 | 417,518 |
| 1931 | 337,840 | 89,818 | 43,486 | 17,583 | 9,294 | 3,277 | 16,747 | 510,572 |
| 1932 | 365,620 | 133,202 | 45,686 | 15,655 | 14,778 | 2,501 | 21,979 | 605,561 |
| 1933 | 359,708 | 152,168 | 49,618 | 21,414 | 22,356 | 4,238 | 27,426 | 637,207 |
| 1934 | 334,275 | 163,646 | 50,779 | 25,143 | 25,989 | 12,432 | 27,607 | 651,338 |
| 1935 | 306,949 | 165,257 | 64,943 | 27,425 | 28,492 | 19,009 | 34,075 | 649,049 |
| 1936 | 404,380 | 176,179 | 89,002 | 45,716 | 44,322 | 42,031 | 44,577 | 846,208 |
| 1937 | 424,448 | 230,192 | 99,335 | 56,740 | 64,608 | 77,463 | 47,859 | 1,000,647 |
| 1938 | 518,068 | 309,702 | 97,614 | 51,851 | 66,126 | 65,500 | 58,940 | 1,167,791 |
| 1939 | 585,155 | 284,538 | 108,438 | 50,088 | 61,873 | 69,208 | 54,937 | 1,214,238 |
| 1940 | 591,956 | 273,415 | 83,895 | 63,866 | 63,492 | 60,568 | 54,291 | 1,191,482 |
| 1941 | 571,685 | 216,479 | 65,123 | 69,931 | 54,823 | 81,209 | 50,069 | 1,109,318 |
| 1942 | 450,757 | 172,291 | 43,365 | 51,610 | 31,695 | 66,705 | 31,757 | 848,180 |
| 1943 | 317,198 | 92,751 | 25,079 | 25,388 | 15,106 | 44,156 | 26,799 | 546,475 |
| 1944 | 294,408 | 61,255 | 23,712 | 20,012 | 9,375 | 38,936 | 18,565 | 466,265 |
| 1945 | 319,573 | 65,401 | 21,169 | 16,487 | 5,173 | 29,213 | 11,532 | 468,551 |
| 1946 | 426,503 | 68,974 | 29,345 | 19,793 | 9,848 | 42,226 | 20,275 | 616,964 |
| 1947 | 463,865 | 112,380 | 28,747 | 20,404 | 20,169 | 35,646 | 22,675 | 703,886 |
| 1948 | 449,668 | 116,378 | 23,375 | 13,292 | 10,797 | 37,675 | 13,799 | 664,986 |
| 1949 | 446,084 | 93,028 | 28,907 | 18,621 | 6,736 | 42,798 | 12,155 | 648,426 |
| 1950 | 424,468 | 74,126 | 29,625 | 23,350 | 6,783 | 39,581 | 12,340 | 610,333 |
| 1951 | 439,193 | 66,585 | 22,590 | 37,318 | 4,662 | 44,132 | 13,299 | 648,245 |
| 1952 | 457,193 | 85,218 | 24,722 | 60,878 | 7,820 | 68,104 | 26,039 | 727,469 |
| 1953 | 493,832 | 99,753 | 25,725 | 59,150 | 57,435 | 66,780 | 21,122 | 823,062 |
| 1954 | 496,002 | 121,357 | 24,367 | 55,577 | 59,402 | 78,669 | 15,050 | 861,992 |
| 1955 | 513,775 | 82,108 | 26,397 | 54,637 | 70,030 | 88,031 | 7,024 | 834,326 |
| 1956 | 492,412 | 81,598 | 26,051 | 32,618 | 86,424 | 88,671 | 4,605 | 813,537 |
| 1957 | 544,396 | 89,279 | 32,747 | 44,524 | 84,778 | 95,726 | 5,125 | 849,751 |
| 1958 | 523,540 | 82,219 | 30,551 | 34,936 | 81,842 | 108,366 | 5,591 | 874,819 |
| 1959 | 513,087 | 96,015 | 33,899 | 39,686 | 76,247 | 101,623 | 5,859 | 860,969 |
| 1960 | 521,432 | 92,216 | 34,158 | 32,603 | 70,448 | 97,340 | 7,559 | 869,966 |
| 1961 | 539,085 | 92,017 | 35,092 | 28,573 | 64,226 | 103,015 | 9,837 | 870,658 |
| 1962 | 526,478 | 95,032 | 27,186 | 29,455 | 65,138 | 110,252 | 6,491 | 860,039 |
| 1963 | 531,102 | 83,978 | 21,982 | 28,495 | 17,904 | 102,951 | 6,448 | 802,860 |
| 1964 | 509,984 | 72,261 | 909 | 21,865 | 2,784 | 100,864 | 6,814 | 715,481 |
| Total | 37,878,144 | 9,505,314 | 4,840,088 | 4,734,926 | 2,512,620 | 2,797,046 | 2,608,598 | 64,875,630 |

[a] Includes the following goldfields:—Kimberley, Pilbara, West Pilbara, Ashburton, Gascoyne, Peak Hill, Yalgoo, Broad Arrow, North-East Coolgardie, Phillips River, Donybrook and includes also production outside proclaimed goldfield. [b] Not necessarily in agreement with previous columns.

## GOLD PRODUCTION—NORTHERN TERRITORY

| Year | Tennant Creek | Pine Creek and Union Reefs | Brock's Creek | Miscellaneous[a] | Total |
|---|---|---|---|---|---|
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| 1869–1880 (Aug.) | — | — | — | — | 12,360 |
| 1880 | — | — | — | — | 6,244 |
| 1881 | — | — | — | — | 26,354 |
| 1882 | — | — | — | — | 19,003 |
| 1883 | — | — | — | — | 18,173 |
| 1884 | — | | — | — | 18,348 |
| 1885 | — | 32,412 | — | — | 16,577 |
| 1886 | — | | — | — | 14,864 |
| 1887 | — | | — | — | 16,191 |
| 1888 | — | [i]1,474 | | — | 8,193 |
| 1889 | — | [i]1,350 | 240 | — | 11,218 |
| 1890 | — | [i]7,754 | | — | 19,016 |
| 1891 | — | | 101 | 4,364 | 23,236 |
| 1892 | — | 19,000 | 1,011 | 6,224 | 25,706 |
| 1893 | — | — | 1,409 | [i]1,356 | 25,456 |
| 1894 | — | 9,272 | 2,226 | [i]4,401 | 25,807 |
| 1895 | — | 9,471 | 517 | [i]6,045 | 24,197 |
| 1896 | — | 9,503 | 1,642 | [i]1,459 | 19,116 |
| 1897 | — | 4,058 | 469 | [i]1,743 | 19,099 |
| 1898 | — | 6,019 | 1,314 | [i]11,115 | 19,951 |
| 1899 | — | 3,389 | 2,408 | [i]1,999 | 14,964 |
| 1900 | — | 2,300 | 2,125 | [i]601 | 15,990 |
| 1901 | — | 3,894 | 1,637 | [i]1,306 | 20,815 |
| 1902 | — | 3,617 | 50 | [i]1,627 | 16,556 |
| 1903 | — | 5,030 | — | [i]1,577 | 16,433 |
| 1904 | — | 5,224 | 729 | [i]243 | 9,900 |
| 1905 | — | 5,908 | 3,753 | 95 | 12,161 |
| 1906 | — | 2,636 | 5,127 | 220 | 11,563 |
| 1907 | — | 650 | 1,030 | 1,917 | 5,104 |
| 1908 | — | 1,717 | 1,174 | 2,608 | 5,695 |
| 1909 | — | 2,318 | 379 | 1,681 | 7,323 |
| 1910 | — | 3,225 | 313 | 2,121 | 6,008 |
| 1911 | — | 6,081 | — | 1,478 | 7,277 |
| 1912 | — | 5,220 | — | 1,605 | 5,337 |
| 1913 | — | 1,279 | — | 967 | 3,119 |
| 1914 | — | 1,823 | 46 | 1,522 | 3,422 |
| 1915 | | | | | |
| 1916 | — | — | — | — | 909 |
| 1917 | — | — | — | — | 866 |
| 1918 | — | — | — | — | 525 |
| 1919 | — | — | — | — | 829 |
| 1920 | — | — | — | — | 751 |
| 1921 | — | — | — | — | 245 |
| 1922 | — | — | — | — | 115 |
| 1923 | — | 4 | — | — | 168 |

[a] Includes:—Driffield, Fletcher's Gully, Frances Creek, Ambrookville, Hercules, Mt. Todd, Fountain Head and Yam Creek in the Darwin Area, The Granites, Tanami and Arltunga.

GOLD PRODUCTION—NORTHERN TERRITORY—*continued*

| Year | Tennant Creek | Pine Creek and Union Reefs | Brock's Creek | Miscellaneous[a] | Total |
|---|---|---|---|---|---|
| | fine oz. | fine oz. | fine oz. | fine oz. | fine oz. |
| 1924 | — | 14 | — | — | 703 |
| 1925 | — | — | — | — | 456 |
| 1926 | — | — | — | — | 140 |
| 1927 | — | — | — | — | 110 |
| 1928 | — | — | — | — | 101 |
| 1929 | — | — | — | — | 131 |
| 1930 | — | — | — | — | 13 |
| 1931 | — | — | — | — | 552 |
| 1932 | — | — | — | — | 674 |
| 1933 | — | — | — | 90 | 594 |
| 1934 | 425 | 32 | — | — | 989 |
| 1935 | 2,443 | 54 | — | 735 | 5,066 |
| 1936 | 8,469 | 6 | — | 338 | 8,753 |
| 1937 | 8,262 | 28 | — | 312 | 15,808 |
| 1938 | 9,129 | 42 | — | 296 | 12,378 |
| 1939 | 12,059 | 6 | 9 | 227 | 16,586 |
| 1940 | 22,587 | 110 | 11 | 376 | 22,423 |
| 1941 | 18,757 | — | — | — | 18,869 |
| 1942 | 15,739 | — | — | 512 | 12,058 |
| 1943 | 7,205 | — | — | — | 3,912 |
| 1944 | 3,452 | — | — | — | 5,491 |
| 1945 | 7,192 | — | — | 1,777 | 7,193 |
| 1946 | 4,615 | — | — | 1,148 | 9,791 |
| 1947 | 9,929 | — | — | 720 | 11,016 |
| 1948 | 13,977 | — | — | — | 15,189 |
| 1949 | 21,410 | — | — | — | 29,781 |
| 1950 | 29,976 | — | — | 854 | 35,060 |
| 1951 | 39,322 | — | — | 706 | 38,945 |
| 1952 | 36,822 | — | — | 867 | 44,894 |
| 1953 | 48,935 | — | — | — | 52,423 |
| 1954 | 55,035 | — | — | — | 54,338 |
| 1955 | 62,473 | — | — | — | 65,357 |
| 1956 | 64,418 | 6,942 | — | 170 | 75,421 |
| 1957 | 66,386 | 7,191 | — | 200 | 73,970 |
| 1958 | 68,823 | — | — | — | 72,616 |
| 1959 | 63,854 | — | — | — | 63,142 |
| 1960 | 69,244 | — | — | 82 | 72,252 |
| 1961 | 70,208 | — | — | — | 75,645 |
| 1962 | 68,134 | 3 | — | 1,273 | 69,410 |
| 1963 | 79,794 | † | 3 | 226 | 80,023 |
| 1964 | 78,303 | 115 | — | 2,747 | 81,165 |
| Total | 1,067,377 | 169,171 | 27,723 | 71,930 | 1,688,811 |

[a] Includes:—Driffield, Fletcher's Gully, Frances Creek, Ambrookville, Hercules, Mt. Todd, Fountain Head and Yam Creek in the Darwin Area, The Granites, Tanami and Artlunga.

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# GRAPHITE

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Graphite—Exports—Australia .. .. .. .. .. .. .. 200

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GRAPHITE PRODUCTION—AUSTRALIA

| Year | Queensland[a] | New South Wales[b] | Tasmania[c] | South Australia[d] | Western Australia[f] | Northern Territory[g] | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1866 | — | — | — | 10 | — | — | 10 |
| 1867–1893 | — | — | — | — | — | — | — |
| 1894 | — | 17 | — | — | — | — | 17 |
| 1895 | — | 20 | — | — | — | — | 20 |
| 1896 | — | 80 | — | — | — | — | 80 |
| 1897–1899 | — | — | — | — | — | — | — |
| 1900 | — | 500 | — | — | — | — | 500 |
| 1901 | — | 350 | — | — | — | — | 350 |
| 1902 | — | — | — | — | 1 | — | 1 |
| 1903 | — | 40 | — | — | — | — | 40 |
| 1904 | — | 50 | — | — | — | — | 50 |
| 1905 | 32 | 20 | — | — | — | — | 52 |
| 1906 | 31 | — | — | — | — | — | 31 |
| 1907 | 65 | 26 | — | — | — | — | 91 |
| 1908 | 20 | — | — | — | — | — | 20 |
| 1909 | — | — | — | — | — | — | — |
| 1910 | — | — | — | — | — | — | — |
| 1911 | — | 60 | — | — | — | — | 60 |
| 1912 | — | — | — | — | — | — | — |
| 1913 | — | — | — | — | — | — | — |
| 1914 | — | — | — | — | 7 | — | 7 |
| 1915 | — | 70 | — | — | — | — | 70 |
| 1916 | — | 50 | — | — | 21 | — | 71 |
| 1917 | — | 70 | — | — | 18 | — | 88 |
| 1918 | — | 200 | — | — | 5 | — | 205 |
| 1919 | — | 100 | — | — | — | — | 100 |
| 1920 | — | 40 | — | — | 13 | — | 53 |
| 1921 | — | — | — | — | — | — | — |
| 1922 | — | 50 | — | — | — | — | 50 |
| 1923 | — | — | — | — | — | — | — |
| 1924 | — | — | — | — | — | 3 | 3 |
| 1925 | — | — | — | — | — | — | — |
| 1926 | — | — | — | — | — | — | — |
| 1927 | — | 10 | — | — | — | — | 10 |
| 1928 | — | — | — | — | — | — | — |
| 1929 | — | 50 | — | — | — | — | 50 |
| 1930 | — | — | — | — | — | — | — |
| 1931 | — | 60 | — | — | — | — | 60 |
| 1932 | — | — | — | [h]70 | — | — | 70 |
| 1933 | — | 30 | — | — | — | — | 30 |
| 1934 | — | — | — | [h]6 | — | — | 6 |
| 1935 | 14 | 30 | — | — | — | — | 44 |
| 1936 | 23 | — | — | — | — | — | 23 |
| 1937 | 12 | — | — | [h]2 | — | — | 14 |
| 1938 | 10 | — | — | — | — | — | 10 |
| 1939 | — | — | — | — | — | — | — |

[a] Mount Bopple 1905–1908, Collinsville 1935–1944. [b] All from Undercliffe Mountain, with the exception of 10 tons in 1927 from South Komungla. New South Wales figures adopted in part from The Mineral Industry of New South Wales. Graphite. Raggatt 1928. [c] East Ulverstone. [d] From Hd. Uley with the exception of 48 tons in 1943 and 42 tons in 1944 from Hd. Koppio; locality of 10 tons produced in 1866 not specified. [f] Donnelly River, Kendenup, etc. [g] Golden Dyke Mine Area. [h] Produced during 1917–1929. Actual production for this period is estimated by the South Australian Mines Department at 100 tons.

GRAPHITE PRODUCTION—AUSTRALIA—*continued*

| Year | Queensland[a] | New South Wales[b] | Tasmania[c] | South Australia[d] | Western Australia[f] | Northern Territory[g] | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1940 | 62 | 40 | 5 | — | 1 | — | 108 |
| 1941 | 315 | 63 | 5 | 49 | — | — | 432 |
| 1942 | 221 | 70 | — | 70 | 6 | — | 367 |
| 1943 | 354 | 112 | 7 | 87 | 11 | — | 571 |
| 1944 | 51 | 140 | — | 249 | — | — | 440 |
| 1945 | 57 | 50 | — | 5 | — | — | 112 |
| 1946 | 230 | 115 | — | 2 | — | — | 347 |
| 1947 | 184 | 98 | — | 21 | — | — | 303 |
| 1948 | 145 | 76 | — | 10 | — | — | 231 |
| 1949 | 25 | 25 | 5 | 69 | — | — | 124 |
| 1950 | 39 | 23 | — | 83 | — | — | 145 |
| 1951 | 29 | — | — | 17 | — | — | 46 |
| 1952 | 75 | — | 5 | — | — | — | 80 |
| 1953 | — | — | 13 | — | 20 | — | 33 |
| 1954 | 70 | — | — | — | — | — | 70 |
| 1955 | — | — | — | — | 110 | — | 110 |
| 1956 | 9 | — | — | — | 5 | — | 14 |
| 1957–1964 | — | — | — | — | — | — | — |
| Total | 2,073 | 2,735 | 40 | 750 | 218 | 3 | 5,819 |

[a] Mount Bopple 1905–1908, Collinsville 1935–1944. [b] All from Undercliffe Mountain, with the exception of 10 tons in 1927 from South Komungla. New South Wales figures adopted in part from The Mineral Industry of New South Wales. Graphite. Raggatt 1928. [c] East Ulverstone. [d] From Hd. Uley with the exception of 48 tons in 1943 and 42 tons in 1944 from Hd. Koppio; locality of 10 tons produced in 1866 not specified. [f] Donnelly River, Kendenup, etc. [g] Golden Dyke Mine Area. [h] Produced during 1917–1929. Actual production for this period is estimated by the South Australian Mines Department at 100 tons.

GRAPHITE[a]—EXPORTS—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1908 | 25 | 382 | 1935–36 | 39 | 630 |
| 1909 | 19 | 311 | 1936–37 | 35 | 810 |
| | | | 1937–38 | 17 | 378 |
| 1910 | 17 | 284 | 1938–39 | 32 | 724 |
| 1911 | 20 | 174 | 1939–40 | 54 | 1,765 |
| 1912 | 23 | 321 | | | |
| 1913 | 13 | 201 | 1940–41 | 83 | 2,376 |
| 1913–14 | n.a. | n.a. | 1941–42 | 132 | 3,661 |
| 1914–15 | 23 | 586 | 1942–43 | 48 | 1,904 |
| | | | 1943–44 | 134 | 3,970 |
| 1915–16 | 20 | 417 | 1944–45 | 49 | 3,080 |
| 1916–17 | 12 | 234 | | | |
| 1917–18 | 21 | 547 | 1946 | 90 | 3,692 |
| 1918–19 | 12 | 340 | 1947 | 46 | 3,847 |
| 1919–20 | 20 | 625 | 1948 | 81 | 4,931 |
| | | | 1949 | 38 | 2,938 |
| 1920–21 | 30 | 1,192 | | | |
| 1921–22 | 15 | 424 | 1950 | 91 | 6,011 |
| 1922–23 | 26 | 834 | 1951 | 63 | 4,405 |
| 1923–24 | 139 | 2,429 | 1952 | 41 | 3,208 |
| 1924–25 | 32 | 1,115 | 1953 | 10 | 721 |
| | | | 1954 | 15 | 1,624 |
| 1925–26 | 25 | 828 | | | |
| 1926–27 | 24 | 728 | 1955 | 22 | 972 |
| 1927–28 | 18 | 542 | 1956 | 5 | 569 |
| 1928–29 | 25 | 602 | 1957 | 9 | 836 |
| 1929–30 | 47 | 815 | 1958 | 8 | 897 |
| | | | 1959 | 5 | 644 |
| 1930–31 | 31 | 517 | | | |
| 1931–32 | 13 | 282 | 1960 | 6 | 847 |
| 1932–33 | 20 | 497 | 1961 | 3 | 2,029 |
| 1933–34 | 19 | 410 | 1962 | 4 | 647 |
| 1934–35 | 14 | 385 | 1963 | 6 | 538 |
| | | | 1964 | 15 | 1,623 |

[a] Included Black Lead and Foundry Black until 30th June, 1945. Was not recorded prior to 1st January, 1908.

# GRAPHITE

## GRAPHITE[a]—IMPORTS—AUSTRALIA

| Year | tons[b] | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1908 | — | 6,035 | 1935–36 | 905 | 6,698 |
| 1909 | — | 8,069 | 1936–37 | 591 | 6,012 |
| | | | 1937–38 | 726 | 9,689 |
| 1910 | — | 8,956 | 1938–39 | 681 | 6,538 |
| 1911 | — | 7,004 | 1939–40 | 701 | 8,178 |
| 1912 | — | 7,766 | | | |
| 1913 | — | 8,807 | 1940–41 | 869 | 19,024 |
| 1913–14 | — | n.a. | 1941–42 | 878 | 36,469 |
| 1914–15 | — | 7,523 | 1942–43 | 935 | 36,120 |
| | | | 1943–44 | 895 | 35,633 |
| 1915–16 | — | 11,004 | 1944–45 | 504 | 21,504 |
| 1916–17 | — | 8,184 | | | |
| 1917–18 | — | 5,612 | 1946 | 840 | 32,020 |
| 1918–19 | — | 6,283 | 1947 | 593 | 19,403 |
| 1919–20 | — | 6,534 | 1948 | 1,162 | 46,589 |
| | | | 1949 | 717 | 30,770 |
| 1920–21 | — | 9,245 | | | |
| 1921–22 | — | 6,457 | 1950 | 808 | 40,014 |
| 1922–23 | 471 | 5,265 | 1951 | 1,140 | 69,240 |
| 1923–24 | 632 | 9,374 | 1952 | 1,098 | 77,458 |
| 1924–25 | 820 | 10,218 | 1953 | 707 | 34,222 |
| | | | 1954 | 973 | 52,846 |
| 1925–26 | 615 | 10,558 | | | |
| 1926–27 | 848 | 11,938 | 1955 | 950 | 53,993 |
| 1927–28 | 678 | 10,494 | 1956 | 779 | 46,375 |
| 1928–29 | 611 | 8,745 | 1957 | 818 | 48,107 |
| 1929–30 | 612 | 9,705 | 1958 | 914 | 73,147 |
| | | | 1959 | 973 | 70,515 |
| 1930–31 | 438 | 7,099 | | | |
| 1931–32 | 457 | 7,314 | 1960 | 924 | 74,227 |
| 1932–33 | 541 | 7,252 | 1961 | 735 | 59,075 |
| 1933–34 | 679 | 8,564 | 1962 | 1,050 | 73,374 |
| 1934–35 | 579 | 7,192 | 1963 | 1,230 | 106,004 |
| | | | 1964 | 1,477 | 122,042 |

[a] Not recorded separately prior to 1st January, 1908; includes colloidal graphite as from 1st January, 1958. [b] Not recorded prior to 1st July, 1921.

Page 202 is blank.

# GYPSUM

Gypsum Production—Australia .. .. .. .. .. .. 204–205

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Gypsum—Production—Victoria .. .. .. .. .. .. 208–209

Gypsum—Production—South Australia .. .. .. .. .. 210–211

Gypsum—Production—Western Australia .. .. .. .. .. 212

## GYPSUM PRODUCTION—AUSTRALIA

| Year | New South Wales | Victoria | South Australia | Western Australia | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| Priorto1900 | — | 98 | — | — | 98 |
| 1902 | — | 3,227 | — | — | 3,227 |
| 1903 | — | 3,590 | — | — | 3,590 |
| 1904 | 1,000 | 3,620 | — | — | 4,620 |
| 1905 | 2,590 | 974 | — | — | 3,564 |
| 1906 | — | 1,389 | 2,924 | — | 4,313 |
| 1907 | — | 1,036 | 2,945 | — | 3,981 |
| 1908 | — | 2,292 | 8,616 | — | 10,908 |
| 1909 | — | 1,613 | 9,042 | — | 10,655 |
| 1910 | — | 1,246 | 15,800 | — | 17,046 |
| 1911 | — | 35 | 9,700 | — | 9,735 |
| 1912 | — | 2,078 | 12,000 | — | 14,078 |
| 1913 | — | 1,676 | 7,150 | — | 8,826 |
| 1914 | — | 1,077 | 16,276 | — | 17,353 |
| 1915 | — | 690 | 19,900 | — | 20,590 |
| 1916 | — | 1,853 | 20,371 | — | 22,224 |
| 1917 | — | 1,187 | 12,776 | — | 13,963 |
| 1918 | — | 712 | 32,013 | — | 32,725 |
| 1919 | — | 820 | 25,216 | — | 26,036 |
| 1920 | — | 3,393 | 40,192 | — | 43,585 |
| 1921 | 300 | 11,139 | 34,383 | 664 | 46,486 |
| 1922 | 1,692 | 6,965 | 45,241 | 63 | 53,961 |
| 1923 | 2,070 | 12,761 | 53,405 | — | 68,236 |
| 1924 | 2,666 | 13,268 | 65,690 | 4,237 | 85,861 |
| 1925 | 296 | 14,518 | 72,276 | 3,060 | 90,150 |
| 1926 | 817 | 10,217 | 65,613 | 3,918 | 80,565 |
| 1927 | 1,482 | 20,835 | 93,850 | 6,674 | 122,841 |
| 1928 | 12,559 | 10,559 | 91,535 | 4,215 | 118,868 |
| 1929 | 10,418 | 13,205 | 95,613 | 5,289 | 124,525 |
| 1930 | 2,868 | 5,809 | 40,827 | 1,678 | 51,182 |
| 1931 | 1,738 | 1,565 | 24,207 | 282 | 27,792 |
| 1932 | 2,442 | 2,919 | 44,962 | 3,647 | 53,970 |
| 1933 | 2,271 | 5,132 | 50,561 | 2,719 | 60,683 |
| 1934 | 2,730 | 6,376 | 75,241 | 5,059 | 89,406 |
| 1935 | 1,695 | 8,712 | 102,268 | 5,461 | 118,136 |
| 1936 | 4,321 | 7,461 | 107,151 | 6,651 | 125,584 |
| 1937 | 9,153 | 20,862 | 116,121 | 9,073 | 155,209 |
| 1938 | 12,516 | 13,381 | 146,590 | 13,429 | 185,916 |
| 1939 | 7,138 | 11,777 | 144,940 | 14,340 | 178,195 |
| 1940 | 11,182 | 7,123 | 153,438 | 13,020 | 184,763 |
| 1941 | 23,087 | 15,760 | 113,501 | 9,513 | 161,861 |
| 1942 | 18,285 | 8,986 | 57,206 | 2,878 | 87,355 |
| 1943 | 35,818 | 8,930 | 39,523 | 935 | 85,206 |
| 1944 | 20,216 | 8,579 | 46,547 | 3,604 | 78,946 |
| 1945 | 22,772 | 11,569 | 65,600 | 7,232 | 107,173 |
| 1946 | 44,761 | 14,944 | 90,427 | 15,350 | 165,482 |
| 1947 | 65,301 | 22,895 | 106,955 | 20,283 | 215,434 |
| 1948 | 74,114 | 29,298 | 147,482 | 25,521 | 276,415 |
| 1949 | 82,653 | 30,985 | 147,698 | 27,244 | 288,580 |
| 1950 | 102,910 | 39,945 | 156,031 | 30,835 | 329,721 |
| 1951 | 104,697 | 41,126 | 147,701 | 77,923 | 371,447 |
| 1952 | 89,226 | 47,295 | 164,825 | 50,332 | 351,678 |

GYPSUM PRODUCTION—AUSTRALIA—*continued.*

| Year | New South Wales | Victoria | South Australia | Western Australia | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1953 | 71,819 | 36,286 | 181,640 | 40,247 | 329,992 |
| 1954 | 128,790 | 75,012 | 194,772 | 41,142 | 439,716 |
| 1955 | 136,356 | 89,190 | 204,522 | 39,946 | 470,014 |
| 1956 | 94,203 | 78,895 | 263,136 | 27,121 | 463,355 |
| 1957 | 101,491 | 68,647 | 274,945 | 33,353 | 478,436 |
| 1958 | 90,664 | 72,010 | 306,749 | 35,515 | 504,938 |
| 1959 | 101,143 | 81,101 | 296,816 | 37,731 | 516,791 |
| 1960 | 95,514 | 100,386 | 340,762 | 44,216 | 580,878 |
| 1961 | 97,250 | 80,223 | 387,289 | 45,145 | 609,907 |
| 1962 | 71,802 | 80,223 | 428,730 | 51,650 | 630,910 |
| 1963 | 62,247 | 114,503 | 497,886 | 50,808 | 725,444 |
| 1964 | 64,584 | 104,212 | 581,209 | 44,998 | 795,003 |
| Total | 1,893,647 | 1,496,695 | 7,100,785 | 867,001 | 11,358,128 |

GYPSUM—EXPORTS[a]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1914–15 | 623 | 1,505 | 1939–40 | 51,864 | 33,627 |
| 1915–16 | 12,807 | 15,360 | 1940–41 | 31,583 | 21,579 |
| 1916–17 | 7,858 | 9,828 | 1941–42 | 24,398 | 17,964 |
| 1917–18 | 7,086 | 8,100 | 1942–43 | 10,822 | 6,875 |
| 1918–19 | 4,052 | 3,348 | 1943–44 | 21,280 | 12,831 |
| 1919–20 | 5,350 | 7,703 | 1944–45 | 21,695 | 15,859 |
| 1920–21 | 3,155 | 4,663 | 1946 | 22,180 | 14,994 |
| 1921–22 | 1,784 | 2,576 | 1947 | 27,985 | 21,932 |
| 1922–23 | 3,014 | 3,214 | 1948 | 35,164 | 28,119 |
| 1923–24 | 4,116 | 4,121 | 1949 | 37,254 | 31,895 |
| 1924–25 | 6,832 | 8,472 | 1950 | 27,131 | 24,309 |
| 1925–26 | 3,666 | 3,700 | 1951 | 23,905 | 22,142 |
| 1926–27 | 5,265 | 5,286 | 1952 | 32,524 | 49,786 |
| 1927–28 | 8,438 | 8,451 | 1953 | 27,838 | 51,157 |
| 1928–29 | 5,081 | 5,082 | 1954 | 42,262 | 76,910 |
| 1929–30 | 4,131 | 4,153 | 1955 | 38,743 | 68,536 |
| 1930–31 | 5,730 | 5,397 | 1956 | 37,618 | 62,234 |
| 1931–32 | 4,934 | 4,268 | 1957 | 41,780 | 74,193 |
| 1932–33 | 1,812 | 1,525 | 1958 | 68,138 | 154,193 |
| 1933–34 | 1,608 | 1,050 | 1959 | 77,876 | 213,982 |
| 1934–35 | 10,708 | 5,300 | 1960 | 85,634 | 239,526 |
| 1935–36 | 17,960 | 8,752 | 1961 | 88,613 | 284,868 |
| 1936–37 | 14,902 | 8,052 | 1962 | 139,407 | 373,369 |
| 1937–38 | 24,700 | 14,190 | 1963 | 143,773 | 357,383 |
| 1938–39 | 28,592 | 16,143 | 1964 | 205,501 | 504,064 |

[a] Not recorded separately prior to 1st July, 1914.

GYPSUM—IMPORTS[a]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1945–46 | 2 | 30 | 1950 | 132 | 977 |
| 1946–47 | 1 | 9 | 1951 | 10 | 132 |
| 1947–48 | 6 | 83 | 1952 | 10 | 158 |
| 1948–49 | 7 | 128 | 1953 | 7 | 109 |

[a] Not recorded separately prior to 1st July, 1945 and subsequent to 30th June, 1954.

## GYPSUM PRODUCTION—NEW SOUTH WALES

| Year | Trida, Conoble and Marlow | Beil-pargerie etc. | Lake Wyangan | Gol Gol etc. | Bourke Mining Division | Mis-cellaneous | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1904 | — | — | — | — | — | [a]1,000 | 1,000 |
| 1905 | — | — | — | — | — | [a]2,590 | [e]2,590 |
| 1906–20 | — | — | — | — | — | — | — |
| 1921 | 300 | — | — | — | — | — | 300 |
| 1922 | 1,692 | — | — | — | — | — | 1,692 |
| 1923 | 2,070 | — | — | — | — | — | 2,070 |
| 1924 | 2,666 | — | — | — | — | — | 2,666 |
| 1925 | 20 | — | — | — | — | [b]267 | 296 |
| 1926 | 717 | — | — | — | — | [c]100 | 817 |
| 1927 | 11 | 1,471 | — | — | — | — | 1,482 |
| 1928 | — | 10,140 | — | 2,419 | — | — | 12,559 |
| 1929 | — | 8,355 | — | 2,063 | — | — | 10,418 |
| 1930 | 92 | 2,776 | — | — | — | — | 2,868 |
| 1931 | — | 1,538 | — | 200 | — | — | 1,738 |
| 1932 | — | 1,317 | — | 1,125 | — | — | 2,442 |
| 1933 | — | 1,389 | — | 471 | — | [d]411 | 2,271 |
| 1934 | — | 1,175 | 460 | 1,095 | — | — | 2,730 |
| 1935 | — | 309 | 1,366 | 20 | — | — | 1,695 |
| 1936 | 1,500 | 171 | 2,630 | 20 | — | — | 4,321 |
| 1937 | 304 | 45 | 7,834 | 970 | — | — | 9,153 |
| 1938 | 2,800 | 44 | 8,585 | 1,087 | — | — | 12,516 |
| 1939 | — | 1,112 | 6,026 | — | — | — | 7,138 |
| 1940 | 5,205 | 915 | 3,762 | 1,300 | — | — | 11,182 |
| 1941 | 9,020 | 2,789 | 7,481 | 3,797 | — | — | 23,087 |
| 1942 | 10,164 | 1,619 | 6,022 | 450 | — | [d]30 | 18,285 |
| 1943 | 31,342 | — | 4,206 | 270 | — | — | 35,818 |
| 1944 | 15,707 | 90 | 4,012 | 407 | — | — | 20,216 |
| 1945 | 17,176 | — | 4,232 | 1,364 | — | — | 22,772 |
| 1946 | 34,174 | 240 | 8,993 | 1,354 | — | — | 44,761 |
| 1947 | 48,755 | 1,278 | 14,037 | 1,231 | — | — | 65,301 |
| 1948 | 57,859 | 1,329 | 11,245 | 3,681 | — | — | 74,114 |
| 1949 | 46,701 | 13,769 | 9,163 | 12,940 | — | — | [g]82,653 |
| 1950 | 62,915 | 20,111 | 3,502 | 15,977 | 250 | — | [g]102,910 |
| 1951 | 54,528 | 31,816 | 91 | 16,847 | 1,415 | — | 104,697 |
| 1952 | 48,272 | 27,859 | 220 | 10,577 | 2,298 | — | 89,226 |
| 1953 | 21,753 | 37,862 | 207 | 7,138 | 4,859 | — | 71,819 |
| 1954 | 32,406 | 77,970 | — | 9,639 | 8,775 | — | 128,790 |
| 1955 | 27,914 | 82,050 | — | 11,036 | 15,356 | — | 136,356 |
| 1956 | 24,579 | 45,063 | 134 | 6,863 | 17,564 | — | 94,203 |
| 1957 | 16,430 | 66,069 | 185 | 4,652 | 14,155 | — | 101,491 |
| 1958 | 13,878 | 61,758 | 271 | 5,908 | 8,849 | — | 90,664 |
| 1959 | 12,266 | 79,751 | — | 6,794 | 609 | [f]1,723 | 101,143 |
| 1960 | 3,825 | 75,866 | — | 6,803 | 901 | [f]8,119 | 95,514 |
| 1961 | 9,197 | 81,555 | — | 6,498 | — | — | 97,250 |
| 1962 | 11,335 | 53,710 | — | 6,757 | — | — | 71,802 |
| 1963 | 8,048 | 45,962 | — | 8,152 | — | — | 62,247 |
| 1964 | 4,449 | 55,410 | — | 4,725 | — | — | 64,584 |
| Total | 640,070 | 894,683 | 104,664 | 164,630 | 74,831 | 14,249 | 1,893,647 |

[a] Yanco Glen. [b] Parish Nidgerie. [c] Ivanhoe. [d] Locality not stated. [f] Broken Hill. [g] Not all accounted for in previous columns.

## GYPSUM PRODUCTION—VICTORIA

| Year | Boort | Lake Boga | Woorinen | Waitchie | Chillingollah | Bolton | Tempy | Bronzewing | Nowingi West | Cowangie | Tutye | Yaapet | Hattah | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| Prior to 1902 | — | — | — | — | — | — | — | — | — | — | — | — | — | [a]98 | 98 |
| 1902 | — | 3,227 | — | — | — | — | — | — | — | — | — | — | — | — | 3,227 |
| 1903 | — | 3,590 | — | — | — | — | — | — | — | — | — | — | — | — | 3,590 |
| 1904 | — | 3,620 | — | — | — | — | — | — | — | — | — | — | — | — | 3,620 |
| 1905 | — | 974 | — | — | — | — | — | — | — | — | — | — | — | — | 974 |
| 1906 | — | 1,389 | — | — | — | — | — | — | — | — | — | — | — | — | 1,389 |
| 1907 | 1,036 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1,036 |
| 1908 | — | — | — | — | — | — | — | — | — | — | — | — | — | [a]2,292 | 2,292 |
| 1909 | 1,613 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1,613 |
| 1910 | [b]1,246 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1,246 |
| 1911 | 35 | — | — | — | — | — | — | — | — | — | — | — | — | — | 35 |
| 1912 | 1,240 | 813 | — | — | — | — | — | — | — | — | — | — | — | [d]25 | 2,078 |
| 1913 | 1,019 | 597 | — | — | — | — | — | — | — | — | — | — | — | [g]60 | 1,676 |
| 1914 | 1,032 | — | — | — | — | — | — | — | — | — | — | — | — | [g]45 | 1,077 |
| 1915 | 582 | 60 | — | — | — | — | — | — | — | — | — | — | — | [g]48 | 690 |
| 1916 | 1,853 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1,853 |
| 1917 | 1,187 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1,187 |
| 1918 | — | 712 | — | — | — | — | — | — | — | — | — | — | — | — | 712 |
| 1919 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 820 |
| 1920 | 2,013 | 2,160 | — | — | — | — | — | — | — | — | — | — | — | [g]40 | 3,393 |
| 1921 | 4,303 | 2,502 | — | — | 134 | 1,580 | — | — | — | 565 | — | — | — | [f]2,055 | 11,139 |
| 1922 | 331 | 3,521 | — | — | 130 | 1,546 | — | — | — | 1,437 | — | — | — | — | 6,965 |
| 1923 | [c]969 | 2,923 | — | 5,069 | — | 2,568 | — | — | — | 1,232 | — | — | — | — | 12,761 |
| 1924 | 1,892 | 2,724 | — | 4,871 | — | 3,078 | — | — | — | 703 | — | — | — | — | 13,268 |
| 1925 | 1,709 | 2,137 | — | 5,030 | 771 | 4,742 | — | — | — | 129 | — | — | — | — | 14,518 |
| 1926 | 831 | 307 | — | 2,311 | 40 | 6,388 | — | — | — | 126 | — | — | — | [h]214 | 10,217 |
| 1927 | 1,971 | — | — | 1,300 | 4,384 | 4,906 | 7,467 | — | — | 98 | — | — | — | [h]709 | 20,835 |
| 1928 | 439 | — | 292 | 1,383 | 1,528 | 2,185 | 4,629 | — | — | 103 | — | — | — | — | 10,559 |
| 1929 | 434 | — | 179 | 3,536 | 720 | 1,312 | 6,797 | — | 72 | 143 | — | — | — | [j]12 | 13,205 |
| 1930 | 168 | — | 81 | — | — | 156 | 5,228 | — | — | 176 | — | — | — | — | 5,809 |
| 1931 | 40 | — | — | — | — | — | 1,461 | — | — | 64 | — | — | — | — | 1,565 |
| 1932 | 95 | — | 10 | — | — | 400 | 2,318 | — | 80 | 16 | — | — | — | — | 2,919 |
| 1933 | 58 | — | 90 | — | — | 70 | 3,641 | — | 1,273 | — | — | — | — | — | 5,132 |
| 1934 | 106 | — | 20 | — | — | 450 | 5,298 | — | 502 | — | — | — | — | — | 6,376 |

[a] Locality not stated. [b] Includes production from Fairley. [c] Includes production from Chillingollah and Lascelles. [d] Reedy Lake. [f] Lascelles. [g] Fairley. [h] Murrayville. [j] Tresco.

GYPSUM PRODUCTION—VICTORIA—*continued.*

| Year | Boort | Lake Boga | Woorinen | Waitchie | Chillingollah | Bolton | Tempy | Bronzewing | Nowingi West | Cowangie | Tutye | Yaapet | Hattah | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1935 | — | — | — | — | — | 600 | 7,058 | — | 1,036 | — | — | — | — | [k]18 | 8,712 |
| 1936 | — | — | — | — | — | 770 | 5,430 | — | 1,257 | — | — | — | — | [k]4 | 7,461 |
| 1937 | — | — | — | — | — | 1,390 | 9,417 | — | 10,055 | — | — | — | — | — | 20,862 |
| 1938 | — | — | — | — | — | 1,631 | — | — | 11,750 | — | — | — | — | — | 13,381 |
| 1939 | — | — | — | — | — | 617 | — | — | 9,696 | 1,464 | — | — | — | — | 11,777 |
| 1940 | — | — | — | — | — | 1,336 | — | — | 5,787 | — | — | — | — | — | 7,123 |
| 1941 | — | — | — | 847 | — | 4,613 | — | — | 7,301 | 2,500 | — | — | — | [l]499 | 15,760 |
| 1942 | — | — | — | — | — | 7,486 | — | 341 | 1,059 | 100 | — | — | — | — | 8,986 |
| 1943 | — | — | — | — | — | 6,036 | — | — | 2,433 | — | — | — | — | [a]461 | 8,930 |
| 1944 | — | — | — | — | — | 5,800 | — | — | 2,779 | — | — | — | — | — | 8,579 |
| 1945 | — | — | — | — | — | 7,175 | — | — | 4,394 | — | — | — | — | — | 11,569 |
| 1946 | — | — | — | — | — | 5,386 | — | 183 | 9,375 | — | — | — | — | — | 14,944 |
| 1947 | — | — | — | — | — | 7,324 | — | 2,522 | 12,049 | 1,000 | — | — | — | — | 22,895 |
| 1948 | — | — | — | — | — | 5,173 | — | 10,191 | 12,734 | 1,200 | — | — | — | — | 29,298 |
| 1949 | — | — | — | — | — | 4,840 | — | 7,627 | 14,173 | 4,345 | — | — | — | — | 30,985 |
| 1950 | — | — | — | — | — | 5,084 | — | 11 | 19,940 | 6,710 | — | — | — | — | [m]39,945 |
| 1951 | — | — | — | — | — | 3,498 | — | 9,870 | 22,496 | 5,262 | — | — | — | — | 41,126 |
| 1952 | — | — | — | — | — | 2,811 | — | 11,044 | 28,885 | 4,555 | — | — | — | — | 47,295 |
| 1953 | — | — | — | — | — | — | — | 9,823 | 21,448 | 4,415 | — | — | — | [n]600 | 36,286 |
| 1954 | — | — | — | — | — | — | — | 13,620 | 33,585 | 5,055 | 6,068 | — | — | [p]16,684 | 75,012 |
| 1955 | — | — | — | — | — | — | — | 18,790 | 50,437 | 5,656 | 2,748 | 9,096 | 2,451 | [l]32 | 89,190 |
| 1956 | — | — | — | — | — | — | — | 13,536 | 43,532 | 8,609 | 4,292 | 7,564 | 1,362 | — | 78,895 |
| 1957 | — | — | — | — | — | — | — | — | 34,515 | 5,714 | 599 | 24,141 | 3,678 | — | 68,647 |
| 1958 | — | — | — | — | — | — | — | — | 38,905 | 7,129 | 784 | 17,984 | 7,168 | — | [m]72,010 |
| 1959 | — | — | — | — | — | — | — | — | 44,920 | 10,941 | 382 | 16,452 | 8,406 | — | 81,101 |
| 1960 | — | — | — | — | — | — | — | — | 47,769 | 15,003 | 913 | 29,308 | 8,393 | — | [q]100,386 |
| 1961 | — | — | — | — | — | — | — | — | 28,970 | 9,430 | 1,002 | 31,048 | 9,773 | — | 80,223 |
| 1962 | — | — | — | — | — | — | — | — | 25,740 | 6,474 | 686 | 31,441 | 14,372 | [r]16 | 78,728 |
| 1963 | — | — | — | — | — | — | — | — | 18,093 | 6,803 | 727 | 34,098 | 15,636 | [r]1,021 | 114,503 |
| 1964 | — | — | — | — | — | — | — | — | 27,443 | 6,348 | 735 | 38,407 | 16,653 | [r]6,126 | 104,212 |
| Total | 26,202 | 31,256 | 672 | 24,347 | 7,707 | 100,951 | 38,744 | 97,558 | 594,483 | 123,505 | 18,636 | 239,539 | 84,892 | 24,775 | 1,496,695 |

[k] Ouyen. [l] Gypsum Siding. [m] Not all accounted for in previous columns. [n] Nypo via Rainbow. [p] 16,668 tons from Nypo, 16 tons from Gypsum Siding.
[q] Not in agreement with previous columns. [r] Yatpool.

## GYPSUM PRODUCTION—SOUTH AUSTRALIA

| Year | Hd. Warrenben | Hd. Melville | Hd. Moonabie | Hd. Paisley | Hds. Kevin and Keith | Hds. Bronlow and Anna | Hds. Roby and Coolinong | Hds. Haines and Stuart | Miscellaneous [a] | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1906 | 827 | 2,097 | — | — | — | — | — | — | — | 2,92 |
| 1907 | 382 | 2,563 | — | — | — | — | — | — | — | 2,94 |
| 1908 | 1,451 | 7,165 | — | — | — | — | — | — | — | 8,61 |
| 1909 | 2,352 | 6,690 | — | — | — | — | — | — | — | 9,04 |
| 1910 | 3,500 | 12,300 | — | — | — | — | — | — | — | 15,80 |
| 1911 | 1,335 | 8,345 | — | — | — | — | — | — | 20 | 9,70 |
| 1912 | 1,320 | 10,666 | — | — | — | — | 14 | — | — | 12,00 |
| 1913 | 4,890 | 2,246 | — | — | — | — | 14 | — | — | 7,15 |
| 1914 | 5,451 | 10,825 | — | — | — | — | — | — | — | 16,27 |
| 1915 | 7,546 | 12,354 | — | — | — | — | — | — | — | 19,90 |
| 1916 | 5,238 | 14,483 | — | — | — | — | — | — | 650 | 20,37 |
| 1917 | 7,669 | 4,865 | — | — | — | — | — | — | 242 | 12,77 |
| 1918 | 28,531 | 3,272 | — | — | — | — | — | — | 210 | 32,01 |
| 1919 | 21,205 | 3,325 | — | — | — | — | — | — | 686 | 25,21 |
| 1920 | 28,345 | 4,148 | — | — | 7,203 | — | — | — | 496 | 40,19 |
| 1921 | 24,839 | 2,266 | — | — | 6,489 | — | — | — | 789 | 34,38 |
| 1922 | 26,058 | 4,865 | — | — | 14,036 | — | — | — | 282 | 45,24 |
| 1923 | 30,531 | 5,295 | — | — | 17,247 | — | — | — | 332 | 53,40 |
| 1924 | 29,776 | 6,967 | — | — | 28,781 | — | — | — | 166 | 65,69 |
| 1925 | 32,291 | 7,663 | — | — | 30,645 | — | 740 | — | 937 | 72,27 |
| 1926 | 28,371 | 8,232 | — | — | 27,265 | — | 1,498 | — | 247 | 65,61 |
| 1927 | 45,079 | 9,841 | — | — | 36,725 | — | 1,506 | — | 699 | 93,85 |
| 1928 | 47,742 | 7,687 | — | — | 32,624 | — | 3,192 | — | 290 | 91,53 |
| 1929 | 56,805 | 8,070 | — | — | 29,333 | — | 1,398 | — | 7 | 95,61 |
| 1930 | 26,098 | 7,352 | — | — | 6,781 | — | 580 | — | 16 | 40,82 |
| 1931 | 19,244 | 5,247 | — | — | — | — | — | — | — | [b]24,20 |
| 1932 | 40,907 | 3,997 | — | — | — | — | 52 | — | 6 | 44,96 |
| 1933 | 47,947 | 1,835 | — | — | — | — | 779 | — | — | 50,56 |
| 1934 | 70,229 | 5,087 | — | — | — | — | — | — | — | [b]75,24 |
| 1935 | 88,726 | 13,419 | — | — | — | — | — | — | 123 | 102,26 |

[a] Includes Hds. Moorowie, Paringa, King, Gordon, Mimbrie, Waikerie, Caldwell, Cameron and Tickera. [b] Not in agreeme with previous columns.

GYPSUM PRODUCTION—SOUTH AUSTRALIA—*continued*

| Year | Hd. Warrenben | Hd. Melville | Hd. Moonabie | Hd. Paisley | Hds. Kevin and Keith | Hds. Bronlow and Anna | Hds. Roby and Coolinong | Hds. Haines and Stuart | Miscellaneous [a] | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 936 | 97,742 | 9,264 | — | — | — | — | — | — | 145 | 107,151 |
| 937 | 106,699 | 7,715 | — | — | — | 447 | 1,070 | — | 190 | 116,121 |
| 938 | 134,440 | 8,443 | — | — | 451 | 1,044 | 1,720 | — | 490 | 146,590 |
| 939 | 129,288 | 12,258 | — | — | 178 | 1,302 | 1,310 | — | 604 | 144,940 |
| 940 | 142,169 | 7,298 | — | 2 | — | 1,507 | 1,540 | — | 922 | 153,438 |
| 941 | 102,363 | 6,369 | 157 | — | — | 592 | 3,120 | — | 900 | 113,501 |
| 942 | 44,728 | 7,227 | — | — | — | 500 | 4,400 | — | 351 | 57,206 |
| 943 | 28,777 | 5,301 | — | — | 401 | 530 | 4,279 | — | 235 | 39,523 |
| 944 | 33,843 | 7,445 | — | — | 158 | 610 | 4,320 | — | 171 | 46,547 |
| 945 | 55,170 | 5,425 | — | — | 130 | 820 | 3,540 | — | 515 | 65,600 |
| 946 | 76,915 | 7,056 | — | 192 | 468 | 990 | 4,052 | — | 754 | 90,427 |
| 947 | 91,091 | 7,929 | 657 | 151 | 255 | 1,893 | 3,900 | — | 1,079 | 106,955 |
| 948 | 108,395 | 9,032 | 6,562 | 230 | 15,800 | 2,143 | 4,060 | — | 1,260 | 147,482 |
| 949 | 97,807 | 10,682 | 2,791 | 172 | 27,351 | 1,890 | 4,980 | — | 2,025 | 147,698 |
| 950 | 104,067 | 10,373 | 9,536 | 269 | 17,303 | 2,263 | 9,460 | — | 2,760 | 156,031 |
| 951 | 101,498 | 5,000 | 7,124 | 214 | 16,663 | 3,222 | 9,764 | — | 4,216 | 147,701 |
| 952 | 122,035 | 9,910 | 6,680 | 52 | 7,884 | 2,350 | 11,614 | — | 4,300 | 164,825 |
| 953 | 132,155 | 11,940 | 7,687 | 136 | 6,585 | 2,328 | 16,031 | — | 4,778 | 181,640 |
| 954 | 143,569 | 11,490 | 438 | 328 | 13,383 | 2,443 | 19,713 | — | 3,408 | 194,772 |
| 955 | 140,284 | 13,510 | — | 4,010 | 21,762 | 2,627 | 17,729 | — | 4,600 | 204,522 |
| 956 | 178,689 | 18,794 | — | 3,740 | 32,981 | 3,329 | 19,003 | — | 6,600 | 263,136 |
| 957 | 184,601 | 22,697 | 241 | 4,583 | 37,482 | 3,341 | 13,738 | — | 8,262 | 274,945 |
| 958 | 206,586 | 25,093 | 371 | 7,935 | 45,951 | 3,381 | 11,036 | 2,941 | 3,455 | 306,749 |
| 959 | 190,684 | 19,809 | 7,651 | 3,580 | 41,844 | 4,949 | 11,795 | 6,691 | 9,813 | 296,816 |
| 960 | 213,271 | 16,513 | 16,839 | 12,286 | 44,401 | 4,959 | 12,426 | 18,079 | 1,988 | 340,762 |
| 961 | 194,548 | 17,663 | 19,089 | 10,158 | 59,161 | 2,451 | 19,961 | 61,422 | 2,836 | 387,289 |
| 962 | 195,721 | 5,650 | 12,310 | 14,668 | 99,076 | 1,017 | 21,688 | 76,405 | 2,195 | 428,730 |
| 963 | 205,509 | 3,706 | 14,615 | 13,743 | 111,823 | — | 27,004 | 113,147 | 8,339 | 497,886 |
| 964 | 227,596 | 9,530 | 15,170 | 13,919 | 190,938 | — | 17,044 | 102,994 | 4,018 | 581,209 |
| otal | 4,524,946 | 516,289 | 127,918 | 90,388 | 1,029,258 | 52,918 | 290,070 | 381,679 | 87,407 | 7,100,785 |

[a] Includes Hds. Moorowie, Paringa, King, Gordon, Mimbrie, Waikerie, Caldwell, Cameron and Tickera. [b] Not in agreement with previous columns.

## GYPSUM PRODUCTION—WESTERN AUSTRALIA

| Year | Lake Seabrook | Lake Brown | Koorda | Hines Hill | Baandee | Woolundra | Lake Chandler | Lake Cowcowing | Nukani | Dundas | Miscellaneous | Tota |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1921 | — | — | 644 | — | — | — | — | — | — | — | — | 6 |
| 1922 | — | — | 63 | — | — | — | — | — | — | — | — | |
| 1923 | — | — | — | — | — | — | — | — | — | — | — | |
| 1924 | — | — | 1,234 | 641 | 357 | 1,518 | — | — | — | — | [a]487 | 4,2 |
| 1925 | — | — | 444 | 1,035 | 542 | 1,039 | — | — | — | — | — | 3,0 |
| 1926 | 139 | — | 1,261 | 301 | 1,167 | 1,050 | — | — | — | — | — | 3,9 |
| 1927 | 698 | — | 1,784 | — | 1,570 | 2,622 | — | — | — | — | — | 6,6 |
| 1928 | 1,214 | — | 278 | 722 | 552 | 1,449 | — | — | — | — | — | 4,2 |
| 1929 | 761 | — | 831 | — | 1,073 | 2,624 | — | — | — | — | — | 5,2 |
| 1930 | 714 | — | — | — | 657 | 307 | — | — | — | — | — | 1,6 |
| 1931 | 157 | — | — | — | 125 | — | — | — | — | — | — | 2 |
| 1932 | 366 | — | — | — | 2,945 | 1,336 | — | — | — | — | — | 3,6 |
| 1933 | 713 | — | — | — | 503 | 1,503 | — | — | — | — | — | 2,7 |
| 1934 | 1,404 | — | — | — | 2,167 | 1,488 | — | — | — | — | — | 5,0 |
| 1935 | 487 | 441 | — | — | 1,877 | 1,950 | — | — | — | 706 | — | 5,4 |
| 1936 | 455 | — | — | — | 3,720 | 1,781 | — | — | — | — | 695 | 6,6 |
| 1937 | 479 | — | — | — | 6,076 | 2,518 | — | — | — | — | — | 9,0 |
| 1938 | 2,296 | 1,947 | — | — | 5,010 | 4,176 | — | — | — | — | — | 13,4 |
| 1939 | — | 2,624 | — | — | 5,216 | 6,500 | — | — | — | — | — | 14,3 |
| 1940 | 1,359 | 2,332 | — | — | 5,580 | 3,749 | — | — | — | — | — | 13,0 |
| 1941 | 132 | 1,636 | — | — | 5,233 | 2,446 | — | — | — | — | [b]66 | 9,5 |
| 1942 | — | — | — | — | 789 | 2,089 | — | — | — | — | — | 2,8 |
| 1943 | — | — | — | — | 775 | 160 | — | — | — | — | — | 9 |
| 1944 | — | 1,145 | — | — | 1,248 | 1,211 | — | — | — | — | — | 3,6 |
| 1945 | — | 2,070 | — | — | 3,506 | 1,656 | — | — | — | — | — | 7,2 |
| 1946 | 4,012 | 2,650 | — | — | 4,500 | 3,976 | — | — | — | 212 | — | 15,3 |
| 1947 | 8,953 | 4,262 | — | — | 4,416 | 2,002 | — | — | — | 376 | 274 | 20,2 |
| 1948 | 15,870 | 3,403 | — | — | 5,701 | 547 | — | — | — | — | — | 25,5 |
| 1949 | 15,962 | 3,309 | — | 1,355 | 4,653 | 618 | — | — | — | 10 | — | [c]27,2 |
| 1950 | 20,446 | 4,765 | — | 732 | 4,223 | 669 | — | — | — | — | — | 30,8 |
| 1951 | 20,276 | 8,250 | — | 181 | 4,999 | 670 | 43,540 | — | — | 7 | — | 77,9 |
| 1952 | 18,277 | 7,795 | — | 1,244 | 5,759 | 1,459 | 15,777 | — | — | 21 | — | 50,3 |
| 1953 | 25,216 | 8,935 | — | 3,023 | 2,618 | 443 | — | — | — | 12 | — | 40,2 |
| 1954 | 24,347 | 11,265 | — | 5,063 | 437 | — | — | — | — | 30 | — | 41,1 |
| 1955 | 27,118 | 11,689 | — | 1,130 | — | — | — | — | — | 9 | — | 39,9 |
| 1956 | 16,118 | 7,504 | — | 2,375 | 1,124 | — | — | — | — | — | — | 27,1 |
| 1957 | 18,793 | 9,050 | — | 964 | 2,387 | — | — | — | 2,159 | — | — | 33,3 |
| 1958 | 14,042 | 7,911 | — | — | 2,270 | — | — | 4,813 | 1,495 | 4,984 | — | 35,5 |
| 1959 | 15,787 | 7,766 | — | — | 197 | — | — | 1,603 | 1,209 | 11,169 | — | 37,7 |
| 1960 | 17,335 | 8,051 | — | — | 674 | — | — | 3,639 | 1,175 | 13,342 | — | 44,2 |
| 1961 | 15,783 | 8,476 | — | — | 119 | — | — | 3,861 | 2,427 | 14,479 | — | 45,1 |
| 1962 | 17,594 | 9,541 | — | — | — | — | — | 4,099 | 1,747 | 18,669 | — | 51,6 |
| 1963 | 20,392 | 9,790 | — | — | — | — | — | 3,705 | 2,844 | 15,715 | [d]183 | 50,8 |
| 1964 | 21,848 | 12,272 | — | — | — | — | — | 3,426 | 2,238 | 5,095 | [d]119 | 44,9 |
| Total | 319,543 | 158,479 | 6,559 | 80,374 | 93,765 | 53,556 | 59,317 | 25,146 | 15,296 | 84,836 | 3,118 | 867,0 |

[a] Dukin. [b] Cliff Head. [c] Not all accounted for in previous columns. [d] Dongara.

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## IRON ORE PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| Prior to 1901 | — | — | 5,434 | 11,444 | 26,537 | 25,203 | — |
| 1901 | 430 | Prior to 1903 | — | 612 | — | 20,569 | Prior to 1903 |
| 1902 | — | 62,304 | — | 2,386 | — | 4,800 | 159,719 |
| 1903 | 9,808 | 23,314 | — | 5,980 | 84,932 | 220 | 124,254 |
| 1904 | 4,431 | 9,076 | — | 6,840 | 46,687 | 1,441 | 68,475 |
| 1905 | 4,342 | 7,343 | — | 6,300 | 84,483 | 3,213 | 105,681 |
| 1906 | 31,401 | 1,519 | — | 2,600 | 75,226 | 1,280 | 112,026 |
| 1907 | 35,856 | 46,985 | — | 3,000 | 84,600 | 1,094 | 171,535 |
| 1908 | 51,594 | 61,120 | — | 3,600 | 88,000 | — | 204,314 |
| 1909 | 48,636 | 55,979 | — | — | 16,120 | — | 120,735 |
| 1910 | 37,138 | 75,824 | — | — | 46,200 | 10 | 159,172 |
| 1911 | 20,639 | 61,008 | — | — | 42,300 | — | 123,947 |
| 1912 | 15,526 | 60,020 | — | — | 42,200 | — | 117,746 |
| 1913 | 40,838 | 74,781 | — | — | 60,658 | — | 176,277 |
| 1914 | 48,090 | 138,460 | — | — | 42,622 | — | 229,172 |
| 1915 | 45,686 | 136,978 | — | — | 237,375 | — | 420,039 |
| 1916 | 44,161 | 94,115 | — | — | 188,329 | — | 326,605 |
| 1917 | 25,065 | 97,840 | — | — | 328,386 | — | 451,291 |
| 1918 | 42,782 | 118,644 | — | — | 257,029 | — | 418,455 |
| 1919 | 24,676 | 146,779 | — | — | 268,530 | — | 439,985 |
| 1920 | 19,709 | 163,201 | — | — | 413,038 | — | 595,948 |
| 1921 | 4,061 | 178,967 | — | — | 506,993 | — | 690,021 |
| 1922 | — | 113,333 | — | — | 51,423 | — | 164,756 |
| 1923 | 200 | 176,223 | — | — | 384,434 | — | 560,857 |
| 1924 | — | 144,453 | — | — | 580,308 | — | 724,761 |
| 1925 | 345 | 170,065 | — | — | 586,652 | — | 757,062 |
| 1926 | 4,412 | 181,997 | — | — | 583,745 | — | 770,154 |
| 1927 | 506 | 184,919 | — | — | 722,425 | — | 907,850 |
| 1928 | — | 116,871 | — | — | 618,316 | — | 735,187 |
| 1929 | 1,236 | 11,229 | — | — | 847,813 | — | 860,278 |
| 1930 | 2,417 | 3,800 | — | — | 928,392 | — | 934,609 |
| 1931 | 4,556 | 3,665 | — | — | 289,179 | — | 297,400 |
| 1932 | 8,232 | 3,065 | — | — | 537,928 | — | 549,225 |
| 1933 | 8,553 | 5,368 | — | — | 721,185 | — | 735,106 |
| 1934 | 3,230 | 4,213 | — | — | 1,244,235 | — | 1,251,678 |
| 1935 | 1,119 | 12,069 | — | — | 1,868,719 | — | 1,881,907 |
| 1936 | 2,301 | 3,440 | — | — | 1,887,298 | — | 1,893,039 |
| 1937 | 4,479 | 677 | — | 61 | 1,866,414 | — | 1,871,631 |
| 1938 | 5,125 | 108 | — | — | 2,245,366 | — | 2,250,599 |
| 1939 | 3,940 | 59 | — | — | 2,751,759 | — | 2,575,758 |
| 1940 | 2,841 | 218 | — | 1,167 | 2,313,355 | — | 2,317,581 |
| 1941 | 2,312 | 202,798 | 5 | 2,180 | 2,240,387 | — | 2,447,682 |
| 1942 | 3,755 | 377,726 | 22 | — | 2,122,052 | 150 | 2,503,705 |
| 1943 | 3,046 | 459,905 | — | — | 2,182,831 | 84 | 2,645,866 |
| 1944 | 2,337 | 300,361 | — | — | 2,029,241 | — | 2,331,939 |
| 1945 | 1,715 | 94,247 | — | — | 1,519,594 | — | 1,615,556 |
| 1946 | 1,654 | 12,685 | — | 247 | 1,818,216 | — | 1,832,802 |
| 1947 | 1,342 | 9,238 | — | 393 | 2,145,529 | — | 2,156,502 |
| 1948 | 1,567 | 9,429 | — | 318 | 2,034,826 | 7,222 | 2,053,362 |
| 1949 | 1,469 | 10,313 | — | 1,507 | 1,447,731 | 12,524 | 1,473,544 |

IRON ORE PRODUCTION—AUSTRALIA—*continued*

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1950 | 1,959 | 11,924 | — | 1,521 | 2,349,824 | 14,895 | 2,380,123 |
| 1951 | 1,603 | 11,886 | — | 3,235 | 2,400,577 | 35,652 | 2,452,953 |
| 1952 | 1,253 | 12,784 | — | 4,675 | 2,683,966 | 223,788 | 2,926,466 |
| 1953 | 1,046 | 5,576 | — | 4,827 | 2,591,335 | 707,383 | 3,310,167 |
| 1954 | 162 | 5,221 | — | 6,380 | 2,867,060 | 651,744 | 3,530,567 |
| 1955 | 924 | 3,405 | 2,000 | 6,582 | 3,043,979 | 528,630 | 3,585,520 |
| 1956 | 4,093 | 3,527 | 2,300 | 5,685 | 3,587,095 | 336,890 | 3,939,590 |
| 1957 | 4,273 | 2,749 | 2,300 | 5,775 | 3,389,237 | 416,236 | 3,820,570 |
| 1958 | 996 | 2,962 | 758 | 4,266 | 3,352,596 | 572,928 | 3,934,506 |
| 1959 | 1,323 | 5,244 | 2,241 | 5,062 | 3,423,209 | 727,084 | 4,164,163 |
| 1960 | 1,759 | 12,723 | 1,153 | 3,497 | 3,436,601 | 928,463 | 4,384,196 |
| 1961 | 1,746 | 19,747 | 690 | 2,309 | 3,991,343 | 1,359,548 | 5,375,473 |
| 1962 | 2,337 | 19,509 | 81 | 4,082 | 3,510,265 | 1,430,752 | 4,967,026 |
| 1963 | 3,069 | 14,820 | 101 | 4,221 | 4,242,342 | 1,333,138 | 5,597,691 |
| 1964 | 3,463 | 16,644 | 106 | 6,808 | 4,367,081 | 1,357,715 | 5,751,817 |
| Total | 657,564 | 4,375,452 | 17,191 | 117,560 | 90,566,108 | 10,702,656 | 106,436,621 |

IRON (PIG) PRODUCTION—AUSTRALIA

| Year | New South Wales[a] | | | S.A. | W.A. | Total |
|---|---|---|---|---|---|---|
| | Lithgow[b] | Newcastle[c] | Pt. Kembla[d] | Whyalla[c] | Wundowie[f] | |
| | tons | tons | tons | tons | tons | tons |
| 1875–82 | 8,844 | — | — | — | — | 8,844 |
| 1882–1906 | — | — | — | — | — | — |
| 1907 | 29,902 | — | — | — | — | 29,902 |
| 1908 | 40,207 | — | — | — | — | 40,207 |
| 1909 | 29,762 | — | — | — | — | 29,762 |
| 1910 | 40,487 | — | — | — | — | 40,487 |
| 1911 | 36,354 | — | — | — | — | 36,354 |
| 1912 | 32,677 | — | — | — | — | 32,677 |
| 1913 | 46,563 | — | — | — | — | 46,563 |
| 1914–15 | [g]75,150 | 36,214 | — | — | — | 111,364 |
| 1915–16 | [g]76,318 | 72,000 | — | — | — | 148,318 |
| 1916–17 | [g]52,556 | 81,104 | — | — | — | 133,660 |
| 1917–18 | [g]45,025 | 109,154 | — | — | — | 154,179 |
| 1918–19 | [g]68,072 | 155,172 | — | — | — | 223,244 |
| 1919–20 | [g]80,941 | 171,139 | — | — | — | 252,080 |
| 1920–21 | [g]86,096 | 227,533 | — | — | — | 313,629 |
| 1921–22 | [g]90,053 | 235,165 | — | — | — | 325,218 |
| 1922–23 | [g]54,856 | 62,334 | — | — | — | 117,190 |
| 1923–24 | 94,350 | 306,258 | — | — | — | 400,608 |
| 1924–25 | 101,293 | 358,861 | — | — | — | 460,154 |
| 1925–26 | 97,572 | 333,025 | — | — | — | 430,597 |
| 1926–27 | 125,098 | 343,801 | — | — | — | 468,899 |
| 1927–28 | 95,036 | 333,368 | — | — | — | 428,404 |
| 1928–29 | — | 330,803 | 130,307 | — | — | 461,110 |
| 1929–30 | — | 187,517 | 120,852 | — | — | 308,369 |
| 1930–31 | — | 185,680 | 47,103 | — | — | 232,783 |
| 1931–32 | — | 153,563 | 36,569 | — | — | 190,132 |
| 1932–33 | — | 262,714 | 73,532 | — | — | 336,246 |
| 1933–34 | — | 346,752 | 140,507 | — | — | 487,259 |
| 1934–35 | — | 521,253 | 177,240 | — | — | 698,493 |
| 1936 | — | 662,317 | 185,979 | — | — | 848,296 |
| 1937 | — | 665,409 | 239,717 | — | — | 905,126 |
| 1938 | — | 688,275 | 364,928 | — | — | 1,053,203 |
| 1939 | — | 683,778 | 559,615 | — | — | 1,243,393 |
| 1940 | — | 645,455 | 576,538 | — | — | 1,221,993 |
| 1941 | — | 772,574 | 672,871 | 98,528 | — | 1,543,973 |
| 1942 | — | 687,518 | 621,342 | 137,565 | — | 1,446,425 |
| 1943 | — | 625,449 | 592,018 | 82,771 | — | 1,300,238 |
| 1944 | — | 682,087 | 535,879 | 81,112 | — | 1,299,078 |
| 1945 | — | 548,010 | 399,041 | — | — | 947,051 |
| 1946 | — | 555,565 | 294,407 | 146,051 | — | 996,023 |
| 1947 | — | n.a. | n.a. | 207,046 | — | 1,187,772 |
| 1948 | — | [e]597,000 | [e]335,000 | [e]196,000 | 3,333 | 1,131,255 |
| 1949 | — | [e]532,000 | [e]382,000 | [e]110,000 | 6,609 | 1,031,372 |

[a] From mid 1850's to 1876 there was intermittent but small production at Mittagong. Statistics are not abailable. [b] G. & C. Hoskins mainly. [c] Broken Hill Proprietary Co. Ltd. [d] Australian Iron & Steel Co. Ltd. [f] Wood distillation, Charcoal, Iron and Steel Industry. [g] 1914 to 1923 inclusive are calendar years.

IRON (PIG) PRODUCTION—AUSTRALIA—*continued*

| Year | New South Wales[a] | | | S.A. | W.A. | Total |
|---|---|---|---|---|---|---|
| | Lithgow[b] | Newcastle[c] | Pt. Kembla[d] | Whyalla[c] | Wundowie[f] | |
| | tons | tons | tons | tons | tons | tons |
| 1950 | — | [e]596,000 | [e]558,000 | [e]152,000 | 7,726 | 1,313,457 |
| 1951 | — | [e]590,000 | [e]581,000 | [e]143,000 | 11,014 | 1,325,145 |
| 1952 | — | [e]713,000 | [e]641,000 | [e]185,000 | 10,642 | 1,549,157 |
| 1953 | — | [e]740,000 | [e]881,000 | [e]211,000 | 10,046 | 1,824,408 |
| 1954 | — | [e]700,000 | [e]965,000 | [e]180,000 | 11,161 | 1,856,013 |
| 1955 | — | [e]610,000 | [e]1,043,000 | [e]133,000 | 11,590 | 1,797,533 |
| 1956 | — | [e]783,000 | [e]1,054,000 | [e]224,000 | 13,413 | 2,074,467 |
| 1957 | — | [e]729,000 | [e]1,227,000 | [e]238,000 | 13,973 | 2,208,140 |
| 1958 | — | [e]795,000 | [e]1,232,000 | [e]228,000 | 24,330 | 2,279,282 |
| 1959 | — | [e]880,000 | [e]1,370,000 | [e]220,000 | [e]36,000 | 2,505,659 |
| 1960 | — | [e]820,000 | [e]1,780,000 | [e]230,000 | [e]52,000 | 2,881,951 |
| 1961 | — | [e]920,000 | [e]1,941,000 | [e]247,000 | [e]51,400 | 3,159,393 |
| 1962 | — | [e]977,000 | [e]2,192,000 | [e]219,000 | [e]46,000 | 3,433,809 |
| 1963 | — | [e]1,203,000 | [e]2,145,000 | [e]185,000 | [e]46,000 | 3,624,290 |
| 1964 | — | [e]1,497,000 | [e]2,204,000 | [e]235,000 | [e]47,800 | 3,984,152 |

[a] From mid 1850's to 1876 there was intermittent but small production at Mittagong. Statistics are not available. [b] G. & C. Hoskins mainly. [c] Broken Hill Proprietary Co. Ltd. [d] Australian Iron & Steel Co. Ltd. [f] Wood distillation, Charcoal, Iron and Steel Industry. [g] 1914 to 1923 inclusive are calendar years.

IRON (PIG)—PRICES
(Yearly Average)

| Year | Aust. | U.K. | U.S.A. | Year | Aust. | U.K. | U.S.A. |
|---|---|---|---|---|---|---|---|
| | *a* Per ton | *b* Per ton | *c* Per ton | | *a* Per ton | *b* Per ton | *c* Per ton |
| | £A | £stg. | $US | | £A | £stg. | $US |
| 1920 | 8 5 10 | 10 9 8 | 43.80 | 1943 | 6 0 0 | 6 8 0 | 24.19 |
| 1921 | 8 19 9 | 13 6 10 | 24.05 | 1944 | 6 0 0 | 6 8 0 | 24.17 |
| 1922 | 7 10 0 | 4 7 7 | 25.00 | | | | |
| 1923 | 7 7 6 | 5 10 7 | 27.15 | 1945 | 6 0 0 | 6 19 11 | 25.19 |
| 1924 | 7 6 8 | 4 8 7 | 21.87 | 1946 | 6 0 0 | 8 5 5 | 27.84 |
| | | | | 1947 | 6 18 4 | 8 15 6 | 34.86 |
| 1925 | 6 12 6 | 3 12 11 | 21.32 | 1948 | 7 7 6 | 9 14 5 | 43.38 |
| 1926 | 6 0 10 | 4 6 3 | 21.06 | 1949 | 8 5 10 | 10 2 3 | 46.98 |
| 1927 | 6 10 0 | 3 13 2 | 19.35 | | | | |
| 1928 | 6 0 10 | 3 5 10 | 18.32 | 1950 | 13 2 6 | 10 7 11 | 48.24 |
| 1929 | 6 10 0 | 3 10 5 | 19.15 | 1951 | 13 2 6 | 11 1 5 | 53.62 |
| | | | | 1952 | 17 0 5 | 12 16 7 | 54.84 |
| 1930 | 6 7 6 | 3 7 0 | 18.18 | 1953 | 18 12 6 | 13 15 4 | 55.42 |
| 1931 | 6 5 0 | 2 18 7 | 16.45 | 1954 | 18 12 6 | 14 3 2 | 56.03 |
| 1932 | 5 5 10 | 2 18 6 | 14.99 | | | | |
| 1933 | 5 2 6 | 3 2 6 | 16.30 | 1955 | 21 12 6 | 16 4 0 | 57.19 |
| 1934 | 4 15 5 | 3 7 6 | 18.64 | 1956 | 21 7 6 | 17 9 7 | 60.64 |
| | | | | 1957 | 21 7 6 | 20 11 8 | 63.82 |
| 1935 | 4 11 8 | 3 7 11 | 19.12 | 1958 | 21 7 6 | 21 6 0 | 65.95 |
| 1936 | 4 10 0 | 3 8 2 | 20.00 | 1959 | 21 7 6 | 21 6 0 | 65.95 |
| 1937 | 4 10 0 | 4 7 5 | 23.60 | | | | |
| 1938 | 4 15 0 | 5 9 0 | 22.35 | 1960 | 21 7 6 | 21 7 0 | 65.95 |
| 1939 | 4 15 0 | 5 0 6 | 21.75 | 1961 | 21 7 6 | 21 19 4 | 65.95 |
| | | | | 1962 | 21 7 6 | 22 7 10 | 65.46 |
| 1940 | 4 15 0 | 5 16 7 | 23.15 | 1963 | 21 7 6 | 22 9 0 | 62.87 |
| 1941 | 4 15 0 | 6 8 0 | 24.10 | 1964 | 21 7 6 | 22 9 0 | 62.75 |
| 1942 | 5 1 3 | 6 8 0 | 24.19 | | | | |

[a] Base prices. [b] Foundry pig No. 3 from Class 2–10 ton lots or over (8) Birmingham. [c] Composite pig iron prices devised by the American Metal Market. To compare with years prior to 1953 add arbitrary 1·58, which gradually rose to 5·628 in 1958.

STEEL (INGOT) PRODUCTION—AUSTRALIA

| Year | New South Wales | | | S.A. | Total |
|---|---|---|---|---|---|
| | Lithgow[a] | Newcastle[b] | Pt. Kembla[c] | Whyalla[b] | |
| | tons | tons | tons | tons | tons |
| | | Comm. 1914–15 | | | |
| 1914–15 | — | 86,000 | — | — | 86,000 |
| 1915–16 | — | 171,134 | — | — | 171,134 |
| 1916–17 | — | 116,314 | — | — | 116,314 |
| 1917–18 | — | 141,889 | — | — | 141,889 |
| 1918–19 | — | 178,002 | — | — | 178,002 |
| 1919–20 | — | 166,772 | — | — | 166,772 |
| 1920–21 | — | 209,458 | — | — | 209,458 |
| 1921–22 | — | 219,799 | — | — | 219,799 |
| 1922–23 | — | 52,810 | — | — | 52,810 |
| 1923–24 | — | 284,669 | — | — | 284,669 |
| 1924–25 | 57,019 | 331,137 | — | — | 388,156 |
| 1925–26 | 61,713 | 323,518 | — | — | 385,231 |
| 1926–27 | 57,046 | 353,682 | — | — | 410,728 |
| 1927–28 | 46,201 | 359,389 | — | — | 405,590 |
| 1928–29 | — | 374,059 | 58,714 | — | 432,773 |
| 1929–30 | — | 265,929 | 48,988 | — | 314,917 |
| 1930–31 | — | 210,146 | 18,117 | — | 228,263 |
| 1931–32 | — | 195,188 | 26,300 | — | 221,488 |
| 1932–33 | — | 320,931 | 71,735 | — | 392,666 |
| 1933–34 | — | 414,242 | 104,084 | — | 518,326 |
| 1934–35 | — | 552,710 | 144,151 | — | 696,861 |
| 1936 | — | 669,034 | 215,919 | — | 884,953 |
| 1937 | — | 781,573 | 309,533 | — | 1,091,106 |
| 1938 | — | 839,202 | 318,169 | — | 1,157,371 |
| 1939 | — | 870,516 | 393,362 | — | 1,263,878 |
| 1940 | — | 817,540 | 492,517 | — | 1,310,057 |
| 1941 | — | 991,905 | 633,031 | — | 1,624,936 |
| 1942 | — | 935,221 | 656,858 | — | 1,592,079 |
| 1943 | — | 865,117 | 639,534 | — | 1,504,651 |
| 1944 | — | 836,109 | 499,699 | — | 1,335,808 |
| 1945 | — | 721,525 | 388,425 | — | 1,099,950 |
| 1946 | — | 745,838 | 429,138 | — | 1,174,976 |
| 1947 | — | [e]786,000 | [e]516,000 | — | 1,301,806 |
| 1948 | — | [e]766,000 | [e]459,000 | — | 1,225,155 |
| 1949 | — | [e]666,000 | [e]482,000 | 1,102 | 1,149,556 |
| 1950 | — | [e]806,000 | [e]647,000 | 2,102 | 1,455,940 |
| 1951 | — | [e]769,000 | [e]692,000 | 1,305 | 1,462,751 |
| 1952 | — | [e]935,000 | [e]686,000 | 4,549 | 1,625,940 |
| 1953 | — | [e]1,045,000 | [e]998,000 | — | 2,043,123 |
| 1954 | — | [e]1,053,000 | [e]1,152,000 | 5,394 | 2,210,611 |
| 1955 | — | [e]961,000 | [e]1,237,000 | 2,194 | 2,200,555 |
| 1956 | — | [e]1,187,000[d] | [e]1,349,000 | 3,417 | 2,539,061 |
| 1957 | — | [e]1,657,000[d] | [e]1,355,000 | 3,503 | 3,015,569 |
| 1958 | — | [e]1,767,000[d] | [e]1,363,000 | 3,485 | 3,133,081 |
| 1959 | — | [e]1,359,000[d] | [e]2,031,000 | 5,082 | 3,395,261 |
| 1960 | — | [e]1,432,800[d] | [e]2,246,000 | 8,416 | 3,687,183 |
| 1961 | — | [e]1,312,800[d] | [e]2,460,000 | 9,856 | 3,782,682 |
| 1962 | — | [e]1,237,000[d] | [e]2,920,000 | 9,309 | 4,167,175 |
| 1963 | — | [e]1,134,000[d] | [e]3,126,000 | 20,312 | 4,577,014 |
| 1964 | — | [e]1,629,000[d] | [e]3,274,000 | 22,046 | 5,017,530 |

[a] G. & C. Hoskins. Statistics not available prior to 1924–25. [b] Broken Hill Proprietary Co. Ltd. [c] Australian Iron & Steel Ltd. [d] Includes production by Broken Hill Proprietary Co. Ltd. at Pt. Kembla.

## IRON AND STEEL—EXPORTS[a]—AUSTRALIA

| Year | Iron Ore | | Pig Iron | | Steel Ingots and Billets | |
|---|---|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1903 | 43 | 89 | 179 | 847 | — | — |
| 1904 | — | — | 367 | 1,486 | — | — |
| 1905 | 52 | 98 | 228 | 934 | — | — |
| 1906 | 1,822 | 1,851 | 212 | 987 | 6 | 37 |
| 1907 | 37 | 127 | 1,305 | 5,200 | † | 10 |
| 1908 | 67 | 138 | 2,158 | 7,630 | 2 | 32 |
| 1909 | 5 | 2 | 768 | 2,915 | 11 | 84 |
| 1910 | 12 | 52 | 963 | 3,580 | 4 | 38 |
| 1911 | 10 | 13 | 548 | 2,152 | 18 | 132 |
| 1912 | 18 | 10 | 421 | 1,779 | 506 | 1,180 |
| 1913 | — | — | 265 | 1,191 | 1,597 | 4,857 |
| 1914 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| 1914–15 | 3,902 | 4,566 | 1,873 | 8,126 | 3 | 17 |
| 1915–16 | 7,840 | 12,936 | 2,675 | 12,892 | 89 | 1,603 |
| 1916–17 | n.a. | n.a. | 1,727 | 11,475 | — | — |
| 1917–18 | n.a. | n.a. | 26 | 116 | 260 | 4,752 |
| 1918–19 | n.a. | n.a. | 6,437 | 61,682 | 294 | 4,825 |
| 1919–20 | n.a. | n.a. | 19,299 | 164,419 | 152 | 2,277 |
| 1920–21 | 102 | 260 | 9,034 | 75,069 | 467 | 7,158 |
| 1921–22 | 61 | 158 | 1,140 | 11,738 | 8 | 110 |
| 1922–23 | — | — | 573 | 4,473 | 3 | 44 |
| 1923–24 | 22 | 140 | 137 | 1,097 | 42 | 613 |
| 1924–25 | — | — | 21 | 197 | — | — |
| 1925–26 | 40 | 40 | 7 | 48 | 3 | 170 |
| 1926–27 | † | 1 | 28 | 202 | 31 | 387 |
| 1927–28 | 10,114 | 5,344 | 6 | 42 | 212 | 2,997 |
| 1928–29 | 44,001 | 28,880 | 27 | 201 | † | 8 |
| 1929–30 | 530,242 | 374,704 | 12 | 79 | 4 | 61 |
| 1930–31 | 130,754 | 82,838 | 287 | 1,765 | 51 | 521 |
| 1931–32 | 34,241 | 22,443 | 1,379 | 8,009 | 1,551 | 31,017 |
| 1932–33 | 13,757 | 7,908 | 1,159 | 5,523 | † | 7 |
| 1933–34 | 69,595 | 36,439 | 1,610 | 7,853 | 456 | 3,439 |
| 1934–35 | 345,902 | 213,854 | 23,440 | 62,861 | 13,505 | 64,987 |
| 1935–36 | 432,342 | 231,810 | 2,854 | 15,129 | 660 | 5,127 |
| 1936–37 | 267,129 | 144,143 | 6,174 | 32,164 | 4,062 | 38,303 |
| 1937–38 | 167,919 | 95,626 | 5,834 | 32,677 | 2,784 | 55,680 |
| 1938–39 | 132,163 | 83,300 | 52,321 | 235,817 | 17,655 | 137,376 |
| 1939–40 | — | — | 40,537 | 202,424 | 113,421 | 960,552 |
| 1940–41 | — | — | 11,521 | 62,830 | 151,982 | 1,290,736 |
| 1941–42 | — | — | 11,067 | 60,420 | 34,104 | 297,147 |
| 1942–43 | — | — | 42,007 | 221,052 | 10,436 | 122,089 |
| 1943–44 | — | — | 5,735 | 38,918 | 4,375 | 54,721 |
| 1944–45 | 21 | 82 | 10,839 | 76,443 | 31,620 | 360,556 |
| 1946 | 4 | 104 | 54,054 | 409,961 | 116,663 | 1,516,605 |
| 1947 | 14 | 103 | 103,602 | 981,892 | 44,018 | 572,878 |
| 1948 | 40 | 274 | 61,311 | 550,139 | 10,583 | 139,810 |
| 1949 | 1 | 17 | 17,706 | 190,409 | 9,382 | 140,269 |
| 1950 | — | — | 11,054 | 75,807 | 3,859 | 60,738 |
| 1951 | — | — | 5,812 | 70,598 | 1,580 | 26,421 |
| 1952 | — | — | 64,700 | 1,306,537 | 5,831 | 169,580 |

[a] Statistics not available prior to 1903.

IRON AND STEEL—EXPORTS[a]—AUSTRALIA—*continued*

| Year | Iron Ore | | Pig Iron | | Steel Ingots and Billets | |
|---|---|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1953 | — | — | 211,216 | 3,881,223 | 161,678 | 4,741,042 |
| 1954 | — | — | 33,738 | 595,381 | 26,561 | 744,567 |
| 1955 | — | — | 44,892 | 787,497 | 211 | 5,362 |
| 1956 | 117 | 1,350 | 16,420 | 401,295 | 1,747 | 82,553 |
| 1957 | 65 | 756 | 15,330 | 415,492 | 2,327 | 131,204 |
| 1958 | 6 | 59 | 19,321 | 496,657 | 728 | 31,166 |
| 1959 | 293 | 1,215 | 44,038 | 962,612 | 12,061 | 396,827 |
| 1960 | 10 | 182 | 99,847 | 2,199,365 | 9,619 | 380,394 |
| 1961 | — | — | 296,050 | 6,587,669 | 86,860 | 3,101,548 |
| 1962 | 107 | 1,204 | 157,502 | 3,514,317 | 98,950 | 3,209,503 |
| 1963 | 9 | 46 | 132,798 | 2,645,307 | 31,909 | 1,029,222 |
| 1964 | 12,471 | 379,581 | 55,940 | 1,311,017 | 8,507 | 264,160 |

[a] Statistics not available prior to 1903.

## IRON AND STEEL—IMPORTS[a]—AUSTRALIA

| Year | Iron Ore | | Pig Iron | | Steel Ingots and Billets | |
|---|---|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1903 | n.r. | n.r. | 41,911 | 121,957 | 762 | 5,524 |
| 1904 | 314 | 554 | 37,802 | 112,148 | 2,006 | 12,473 |
| 1905 | 199 | 819 | 33,911 | 93,979 | 1,889 | 11,765 |
| 1906 | 12 | 32 | 44,915 | 136,572 | 4,404 | 25,351 |
| 1907 | 2 | 5 | 49,295 | 162,534 | 4,440 | 35,924 |
| 1908 | 5 | 22 | 26,261 | 91,890 | 5,102 | 27,004 |
| 1909 | 3 | 13 | 41,582 | 125,479 | 4,609 | 28,709 |
| 1910 | 14 | 54 | 38,436 | 123,262 | 8,782 | 46,213 |
| 1911 | 515 | 2,593 | 56,294 | 180,480 | 11,253 | 61,471 |
| 1912 | 21 | 140 | 63,642 | 207,576 | 8,832 | 58,550 |
| 1913 | 16 | 86 | 54,197 | 200,030 | 9,497 | 65,473 |
| 1914 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| 1914–15 | 17 | 83 | 51,190 | 156,842 | 5,677 | 42,479 |
| 1915–16 | 16 | 109 | 29,755 | 105,028 | 2,344 | 18,628 |
| 1916–17 | n.a. | n.a. | 17,606 | 83,399 | 431 | 7,700 |
| 1917–18 | n.a. | n.a. | 2,270 | 17,588 | 71 | 2,940 |
| 1918–19 | 65 | 486 | 874 | 7,472 | 171 | 4,211 |
| 1919–20 | 65 | 555 | 2,681 | 25,023 | 956 | 28,256 |
| 1920–21 | 59 | 545 | 1,245 | 15,531 | 1,399 | 25,373 |
| 1921–22 | 7 | 222 | 3,255 | 20,746 | 2,303 | 26,719 |
| 1922–23 | — | — | 11,241 | 63,640 | 4,492 | 44,654 |
| 1923–24 | 18 | 86 | 8,705 | 45,853 | 3,605 | 42,585 |
| 1924–25 | 3 | 66 | 13,172 | 69,605 | 3,296 | 42,430 |
| 1925–26 | 7 | 28 | 11,217 | 50,081 | 2,413 | 28,027 |
| 1926–27 | n.r. | n.r. | 6,781 | 32,091 | 2,809 | 31,173 |
| 1927–28 | n.r. | n.r. | 9,008 | 35,380 | 4,452 | 51,480 |
| 1928–29 | n.r. | n.r. | 5,375 | 21,895 | 3,295 | 34,693 |
| 1929–30 | n.r. | n.r. | 3,682 | 16,091 | 3,678 | 38,677 |
| 1930–31 | n.r. | n.r. | 1,562 | 6,154 | 1,481 | 15,660 |
| 1931–32 | n.r. | n.r. | 1,586 | 6,089 | 1,322 | 18,176 |
| 1932–33 | n.r. | n.r. | 1,599 | 6,964 | 2,312 | 34,254 |
| 1933–34 | n.r. | n.r. | 1,495 | 11,255 | 1,893 | 30,461 |
| 1934–35 | n.r. | n.r. | 577 | 4,569 | 2,111 | 27,200 |
| 1935–36 | n.r. | n.r. | 462 | 3,330 | 2,078 | 28,380 |
| 1936–37 | n.r. | n.r. | 422 | 2,682 | 2,199 | 31,032 |
| 1937–38 | n.r. | n.r. | 307 | 3,859 | 365 | 7,431 |
| 1938–39 | n.r. | n.r. | 51 | 505 | 186 | 6,875 |
| 1939–40 | n.r. | n.r. | 74 | 741 | 18 | 358 |
| 1940–41 | n.r. | n.r. | 16 | 1,074 | 35 | 1,236 |
| 1941–42 | n.r. | n.r. | 987 | 3,756 | 132 | 28,338 |
| 1942–43 | n.r. | n.r. | 60 | 449 | 119 | 13,602 |
| 1943–44 | n.r. | n.r. | 6 | 34 | 13 | 1,378 |
| 1944–45 | n.r. | n.r. | — | — | 15 | 1,121 |
| 1946 | † | 3 | — | — | 2 | 420 |
| 1947 | — | — | — | — | 8 | 1,938 |
| 1948 | 23 | 1,332 | — | — | 69 | 10,553 |
| 1949 | 8 | 1,227 | 1,020 | 23,008 | 772 | 48,458 |
| 1950 | 5,302 | 10,543 | 12,647 | 252,808 | 1,926 | 107,600 |
| 1951 | 2,916 | 2,966 | 11,503 | 271,439 | 1,383 | 78,579 |

[a] Statistics not available prior to 1903.

IRON AND STEEL—IMPORTS[a]—AUSTRALIA—*cantinued*

| Year | Iron Ore | | Pig Iron | | Steel Ingots and Billets | |
|---|---|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1952 | 2,835 | 3,106 | 6,232 | 236,922 | 2,533 | 225,234 |
| 1953 | 1 | 122 | — | — | 227 | 35,775 |
| 1954 | 17 | 720 | — | — | — | — |
| 1955 | 32 | 964 | — | — | — | — |
| 1956 | 14,052 | 14,550 | — | — | — | — |
| 1957 | 203,011 | 202,895 | — | — | — | — |
| 1958 | 296,157 | 304,743 | — | — | — | — |
| 1959 | 271,904 | 302,764 | — | — | 320 | 51,197 |
| 1960 | 278,502 | 310,146 | — | — | 8,293 | 401,988 |
| 1961 | 270,422 | 320,890 | — | — | 551 | 75,088 |
| 1962 | 260,431 | 290,696 | — | — | 179 | 27,890 |
| 1963 | 268,702 | 301,422 | — | — | 322 | 50,896 |
| 1964 | 340,591 | 383,847 | — | — | 520 | 44,277 |

[a] Statistics not available prior to 1903.

## IRON ORE PRODUCTION—QUEENSLAND

| Year | Rockhampton District | Chillagoe District | Cloncurry District | Mt. Morgan District | Biggenden District | Gladstone District | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1901 | — | — | — | — | — | — | [a]430 | 430 |
| 1902 | — | — | — | — | — | — | — | — |
| 1903 | — | 8,631 | — | — | — | — | [b]1,177 | 9,808 |
| 1904 | — | 4,424 | — | — | — | — | [a]7 | 4,431 |
| 1905 | — | 4,285 | — | — | — | — | [a]57 | 4,342 |
| 1906 | 1,000 | 4,534 | — | 25,000 | — | 867 | — | 31,401 |
| 1907 | 27,484 | 6,757 | — | 611 | — | 908 | [a]96 | 35,856 |
| 1908 | 48,231 | 3,347 | — | — | — | — | [a] 16 | 51,594 |
| 1909 | 47,445 | 1,037 | — | — | — | — | [a]154 | 48,636 |
| 1910 | 33,734 | 3,404 | — | — | — | — | — | 37,138 |
| 1911 | 8,485 | 2,281 | 9,873 | — | — | — | — | 20,639 |
| 1912 | 4,753 | 2,965 | 7,774 | — | — | — | [a]34 | 15,526 |
| 1913 | 26,778 | 2,797 | 11,263 | — | — | — | — | 40,838 |
| 1914 | 40,785 | 523 | 6,782 | — | — | — | — | 48,090 |
| 1915 | 41,473 | — | 4,213 | — | — | — | — | 45,686 |
| 1916 | 35,734 | — | 8,427 | — | — | — | — | 44,161 |
| 1917 | 23,438 | — | 1,627 | — | — | — | — | 25,065 |
| 1918 | 32,028 | — | 10,635 | — | 50 | 69 | — | 42,782 |
| 1919 | 23,300 | — | 1,345 | — | — | — | 31 | 24,676 |
| 1920 | 19,700 | — | 9 | — | — | — | — | 19,709 |
| 1921 | 3,880 | 181 | — | — | — | — | — | 4,061 |
| 1922 | — | — | — | — | — | — | — | — |
| 1923 | — | 200 | — | — | — | — | — | 200 |
| 1924 | — | — | — | — | — | — | — | — |
| 1925 | — | 345 | — | — | — | — | — | 345 |
| 1926 | — | 4,412 | — | — | — | — | — | 4,412 |
| 1927 | — | 506 | — | — | — | — | — | 506 |
| 1928 | — | — | — | — | — | — | — | — |
| 1929 | — | 1,236 | — | — | — | — | — | 1,236 |
| 1930 | — | 1,149 | 1,268 | — | — | — | — | 2,417 |
| 1931 | — | 798 | 3,758 | — | — | — | — | 4,556 |
| 1932 | — | 578 | 5,897 | — | — | — | [c]1,757 | 8,232 |
| 1933 | — | 1,434 | 7,119 | — | — | — | — | 8,553 |
| 1934 | — | 887 | 2,343 | — | — | — | — | 3,230 |
| 1935 | — | 946 | 173 | — | — | — | — | 1,119 |
| 1936 | — | 2,236 | 65 | — | — | — | — | 2,301 |
| 1937 | — | 4,290 | 189 | — | — | — | — | 4,479 |
| 1938 | — | 5,125 | — | — | — | — | — | 5,125 |
| 1939 | — | 3,940 | — | — | — | — | — | 3,940 |
| 1940 | — | 2,841 | — | — | — | — | — | 2,841 |
| 1941 | — | 2,312 | — | — | — | — | — | 2,312 |
| 1942 | — | 3,469 | — | — | 286 | — | — | 3,755 |
| 1943 | — | 960 | — | — | 2,086 | — | — | 3,046 |
| 1944 | — | — | — | — | 2,337 | — | — | 2,337 |
| 1945 | — | — | — | — | 1,715 | — | — | 1,715 |
| 1946 | — | — | — | — | 1,654 | — | — | 1,654 |
| 1947 | — | — | — | — | 1,342 | — | — | 1,342 |
| 1948 | — | — | — | — | 1,517 | — | [d]50 | 1,567 |
| 1949 | — | — | — | — | 1,449 | — | [d]20 | 1,469 |

[a] Stanthorpe District. [b] Mt. Perry 1,165; Stanthorpe 12. [c] Herberton District. [d] Nanango District.

IRON ORE PRODUCTION—QUEENSLAND—*continued*

| Year | Rockhampton District | Chillagoe District | Cloncurry District | Mt. Morgan District | Biggenden District | Gladstone District | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1950 | — | — | — | — | 1,929 | — | [d]30 | 1,959 |
| 1951 | — | — | — | — | 1,553 | — | [d]50 | 1,603 |
| 1952 | — | — | — | — | 1,253 | — | — | 1,253 |
| 1953 | — | — | — | — | 1,046 | — | — | 1,046 |
| 1954 | — | — | — | — | 162 | — | — | 162 |
| 1955 | — | — | — | — | 924 | — | — | 924 |
| 1956 | — | — | — | — | — | — | [f]4,093 | 4,093 |
| 1957 | — | — | — | — | — | — | [f]4,273 | 4,273 |
| 1958 | — | — | — | — | — | — | [f]996 | 996 |
| 1959 | — | — | — | — | — | — | [f]1,323 | 1,323 |
| 1960 | — | — | — | — | — | — | [f]1,759 | 1,759 |
| 1961 | — | — | — | — | — | — | [f]1,746 | 1,746 |
| 1962 | — | — | — | — | — | — | [f]2,337 | 2,337 |
| 1963 | — | — | — | — | — | — | [f]3,069 | 3,069 |
| 1964 | — | — | — | — | — | — | [f]3,463 | 3,463 |
| Total | 418,248 | 82,830 | 82,760 | 25,611 | 19,303 | 1,844 | 26,878 | 657,564 |

[a] Stanthorpe District. [b] Mt. Perry 1,165; Stanthorpe 12. [c] Herberton District. [d] Nanango District.
[f] Townsville District.

## IRON ORE PRODUCTION—NEW SOUTH WALES

| Year | [a]For Smelting | | | | | | | [b]For Gas Purification | | [c]Flux | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cadia | Carcoar | Talla-wang | Breadal-bane | Crook-well | Michel-ago | Total | Port Mac-quarie | Total | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| Prior to 1903 | — | — | | — | — | — | 15,000 | — | 5,946 | 41,358 | 62,30 |
| 1903 | — | — | | — | — | — | — | — | 1,194 | 22,120 | 23,31 |
| 1904 | — | — | | — | — | — | — | — | 415 | 8,661 | 9,07 |
| 1905 | — | — | | — | — | — | — | — | 542 | 6,801 | 7,34 |
| 1906 | — | — | | — | — | — | — | — | 584 | 935 | 1,51 |
| 1907 | — | | | — | — | — | 34,731 | — | 1,595 | 10,659 | 46,98 |
| 1908 | — | | | — | — | — | 51,206 | — | 1,827 | 8,087 | 61,12 |
| 1909 | — | | | — | — | — | 46,740 | — | 4,900 | 4,339 | 55,97 |
| 1910 | — | Estimated | | — | — | — | 72,825 | — | 1,351 | 1,648 | 75, 82 |
| 1911 | — | | | — | — | — | 58,206 | — | 1,586 | 1,216 | 61,00 |
| 1912 | — | 781,036 | | — | — | — | 55,170 | — | 3,757 | 1,093 | 60,02 |
| 1913 | — | | | — | — | — | 71,577 | — | 3,204 | — | 74,78 |
| 1914 | — | tons | 509,953 | — | — | — | 135,316 | — | 3,144 | — | 138,46 |
| 1915 | — | | | — | — | — | 134,684 | — | 2,294 | — | 136,97 |
| 1916 | — | between | | — | — | — | 90,182 | — | 2,461 | 1,472 | 94,11 |
| 1917 | — | | tons | — | — | — | 91,927 | — | 1,431 | 4,482 | 97,84 |
| 1918 | | | | — | — | — | 110,169 | — | 2,153 | 6,322 | 118,64 |
| 1919 | 1,079,213 | 1908 | | — | — | — | 141,926 | — | 2,725 | 2,128 | 146,77 |
| 1920 | tons | and | prior | — | — | — | 158,746 | — | 1,574 | 2,881 | 163,20 |
| 1921 | | | | — | — | — | 168,385 | — | 3,109 | 7,473 | 178,96 |
| 1922 | between | | | — | — | — | 110,972 | — | 1,381 | 980 | 113,33 |
| 1923 | | 1923 | to | — | — | — | 173,507 | — | 2,716 | — | 176,22 |
| 1924 | 1918 | — | | — | — | — | 139,590 | — | 4,863 | — | 144,45 |
| 1925 | and | — | | — | — | — | 165,689 | — | 4,376 | — | 170,06 |
| 1926 | | — | 1926 | — | — | — | 178,746 | — | 3,251 | — | 81,99 |
| 1927 | 1927 | — | — | — | — | — | 179,908 | — | 5,011 | — | 184,91 |
| 1928 | | — | — | — | — | — | 112,213 | — | 4,658 | — | 116,87 |
| 1929 | — | — | — | 5,602 | — | — | 6,476 | — | 4,753 | — | 11,22 |
| 1930 | — | — | — | — | — | — | — | — | 3,800 | — | 3,80 |
| 1931 | — | — | — | — | — | — | — | — | 3,665 | — | 3,66 |
| 1932 | — | — | — | — | — | — | — | — | 3,065 | — | 3,06 |
| 1933 | — | — | — | — | — | — | — | — | 2,936 | 2,432 | 5,36 |
| 1934 | — | — | — | — | — | — | — | — | 4,213 | — | 4,21 |
| 1935 | — | — | — | 7,557 | — | — | 7,557 | 4,456 | 4,512 | — | 12,06 |
| 1936 | — | — | — | — | — | — | — | 3,161 | 3,440 | — | 3,44 |
| 1937 | — | — | — | — | — | — | — | 557 | 677 | — | 67 |
| 1938 | — | — | — | — | — | — | — | — | 108 | — | 10 |
| 1939 | — | — | — | — | — | — | — | — | 59 | — | 5 |
| 1940 | — | — | — | — | — | — | 126 | — | 92 | — | 21 |
| 1941 | — | — | — | 29,415 | 56,100 | 16,875 | 202,180 | — | 543 | 75 | 202,79 |
| 1942 | 83,522 | — | — | 43,635 | 128,039 | 84,330 | 375,297 | 2,274 | 2,429 | — | 377,72 |
| 1943 | 123,215 | — | — | 50,900 | 163,703 | 64,380 | 452,542 | 7,082 | 7,363 | — | 459,90 |
| 1944 | 70,714 | — | — | 32,560 | 121,300 | 39,781 | 293,301 | 6,761 | 7,060 | — | 300,36 |

[a] Other iron ore deposits worked for this purpose have been Broula, Cooma, Fitzroy, Jerrawa and Tirana. [b] Prior to 19 details not available; mainly from Port Macquarie with smaller quantities from Mittagong, Goulburn and Moruya. Since 19 2,089 tons have been produced from the Moss Vale district, 581 tons from Mittagong, 510 tons from Nowra, 110 tons fro Gulgong and 22 tons from Milton. [c] Details not available; production mainly from Carcoar and Marulan with small amoun from Picton, Peak Hill, etc. [d] Magnetite used for coal washing, produced at Gulgong. [f] Includes amounts used for ceme manufacture and coal washing.

## IRON ORE PRODUCTION—NEW SOUTH WALES

| Year | [a]For Smelting | | | | | | | [b]For Gas Purification | | [c]Flux | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cadia | Carcoar | Talla-wang | Breadal bane | Crook-well | Michel-ago | Total | Port Mac-quarie | Total | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 945 | 24,772 | — | — | 8,098 | 31,246 | 3,149 | 86,185 | 7,802 | 8,062 | — | 94,247 |
| 946 | — | — | — | — | — | — | — | 12,360 | 12,685 | — | 12,685 |
| 947 | — | — | — | — | — | — | — | 9,037 | 9,238 | — | 9,238 |
| 948 | — | — | — | — | — | — | — | 8,961 | 9,429 | — | 9,429 |
| 949 | — | — | — | — | — | — | — | 10,208 | 10,313 | — | 10,313 |
| 950 | — | — | — | — | — | — | — | 11,924 | 11,924 | — | 11,924 |
| 951 | — | — | — | — | — | — | — | 11,886 | 11,886 | — | 11,886 |
| 952 | — | — | — | — | — | — | — | 12,315 | 12,315 | [d]469 | 12,784 |
| 953 | — | — | — | — | — | — | — | 4,236 | 4,236 | [d]1,340 | 5,576 |
| 954 | — | — | — | — | — | — | — | 3,426 | 3,426 | [d]1,795 | 5,221 |
| 955 | — | — | — | — | — | — | — | 3,222 | 3,222 | [d]183 | 3,405 |
| 956 | — | — | — | — | — | — | — | 3,527 | 3,527 | — | 3,527 |
| 957 | — | — | — | — | — | — | — | 2,749 | 2,749 | — | 2,749 |
| 958 | — | — | — | — | — | — | — | [f]2,962 | 2,962 | — | 2,962 |
| 959 | — | — | — | — | — | — | — | [f]5,244 | 5,244 | — | 5,244 |
| 960 | — | — | — | — | — | — | — | [f]12,723 | 12,723 | — | 12,723 |
| 961 | — | — | — | — | — | — | — | [f]19,747 | 19,747 | — | 19,747 |
| 962 | — | — | — | — | — | — | — | [f]19,509 | 19,509 | — | 19,509 |
| 963 | — | — | — | — | — | — | — | [f]14,820 | 14,820 | — | 14,820 |
| 964 | — | — | — | — | — | — | — | [f]16,644 | 16,644 | — | 16,644 |
| otal | 1,382,310 | [e]781,036 | 509,953 | 177,767 | 500,488 | 208,515 | 3,921,079 | 217,593 | 315,424 | 138,949 | 4,375,452 |

Other iron ore deposits worked for this purpose have been Broula, Cooma, Fitzroy, Jerrawa and Tirana. [b] Prior to 1935 etails not available; mainly from Port Macquarie with smaller quantities from Mittagong, Goulburn and Moruya. Since 1935 089 tons have been produced from the Moss Vale district, 581 tons from Mittagong, 510 tons from Nowra, 110 tons from ulgong and 22 tons from Milton. [c] Details not available; production mainly from Carcoar and Marulan with small amounts om Picton, Peak Hill, etc. [d] Magnetite used for coal washing, produced at Gulgong. [f] Includes amounts used for cement anufacture and coal washing.

IRON ORE PRODUCTION—VICTORIA

| Year | tons |
|---|---|
| Prior to 1900 | 5,434 |
| 1941 | 5 |
| 1942 | 22 |
| 1955 | [a]2,000 |
| 1956 | [a]2,300 |
| 1957 | [a]2,300 |
| 1958 | [a]758 |
| 1959 | [a]2,241 |
| 1960 | [a]1,153 |
| 1961 | [a]690 |
| 1962 | [b]81 |
| 1963 | [b]101 |
| 1964 | [c]106 |
| Total | 17,191 |

[a] Limonite from Buchan used for gas purification. [b] Buchan and Nowa Nowa. [c] Nowa Nowa.

Amounts won in previous years have not been recorded by the Victorian Mines Department.

## IRON ORE PRODUCTION—TASMANIA

| Year | Total tons | Remarks |
|---|---|---|
| 1897 | 894 | From Blythe River and Penguin. |
| 1898 | 1,598 | From Blythe River and Penguin. |
| 1899 | 3,577 | From Blythe River and Penguin. |
| 1900 | 5,375 | From Blythe River and Penguin. |
| 1901 | 612 | From Blythe River and Penguin. |
| 1902 | 2,386 | From Penguin, for fluxing. |
| 1903 | 5,980 | From Penguin, for fluxing. |
| 1904 | 6,840 | From Penguin, for fluxing. |
| 1905 | 6,300 | From Penguin, for fluxing. |
| 1906 | 2,600 | From Penguin, for fluxing. |
| 1907 | 3,000 | 2,000 from Penguin, 1,000 from Blythe River. |
| 1908 | 3,600 | Penguin. |
| 1909–36 | — | |
| 1937 | 61 | Blythe River, sent to Japan. |
| 1938–9 | — | |
| 1940 | 1,167 | From Cuprana to Electrona for ferro-silicon. |
| 1941 | 2,180 | From Cuprana to Electrona for ferro-silicon. |
| 1942–5 | — | |
| 1946 | 5 | Hematite, Penguin. |
| | 242 | Limonite, Penguin, for gas purification. |
| 1947 | 393 | Limonite, Penguin, for gas purification. |
| 1948 | 318 | Limonite, Penguin, for gas purification. |
| 1949 | 1,507 | |
| 1950 | 1,521 | Between 1949 and 1956 production totalled 13 tons of hematite, |
| 1951 | 3,235 | 2,362 tons of limonite, largely from Penguin and used for |
| 1952 | 4,675 | gas purification, 1,019 tons of magnetite used for coal washing, |
| 1953 | 4,827 | and 31,018 tons of "iron ore" mined at Railton and used in |
| 1954 | 6,380 | cement manufacture. |
| 1955 | 6,582 | |
| 1956 | 5,685 | |
| 1957 | 5,775 | From Penguin and Railton for cement and gas purification. |
| 1958 | 4,266 | From Penguin for cement manufacture. |
| 1959 | 5,062 | From Penguin for cement manufacture and gas purification. |
| 1960 | 3,497 | From Penguin for cement manufacture and gas purification. |
| 1961 | 2,309 | From Penguin for cement manufacture and gas purification. |
| 1962 | 4,082 | From Penguin for cement manufacture and gas purification. |
| 1963 | 4,221 | From Penguin for cement manufacture and gas purification. |
| 1964 | 6,808 | From Penguin for cement manufacture and gas purification. |
| Total | 117,560 | |

## IRON ORE PRODUCTION—SOUTH AUSTRALIA

| Year | Total tons | Remarks |
|---|---|---|
| 1850 | 117 | |
| 1851–9 | — | |
| 1860 | 5 | |
| 1861 | — | |
| 1862 | 9 | |
| 1863–4 | — | |
| 1865 | 20 | |
| 1866–73 | — | Smelter at Mt. Jagged 1873, and pig iron produced. |
| 1874 | 6 | |
| 1875–8 | — | |
| 1879 | 293 | |
| 1880 | 2 | |
| 1881–8 | — | |
| 1889 | 4,397 | Ironstone flux from Cutana for B.H.P. smelters at Broken Hill, |
| 1890 | 3,967 | about 16,000 tons from Oodla |
| 1891 | 6,799 | Wirra for Broken Hill and 17,500 |
| 1892 | 4,184 | tons from Donelly's (Hd. Yarrah) |
| 1893 | 3,050 | for Port Pirie Smelters and 13,000 |
| 1894 | 1,564 | tons from Peeralilla for Port Pirie. |
| 1895 | 1,611 | |
| 1896 | 109 | |
| 1897 | 404 | |
| 1898–1902 | — | |
| 1903 | 84,932 | Iron Knob (to 1936) |
| 1904 | 46,687 | |
| 1905 | 84,483 | |
| 1906 | 75,226 | |
| 1907 | 84,600 | |
| 1908 | 88,000 | |
| 1909 | 16,120 | |
| 1910 | 46,200 | |
| 1911 | 42,300 | |
| 1912 | 42,200 | |
| 1913 | 60,658 | |
| 1914 | 42,622 | |
| 1915 | 237,375 | Iron Monarch |
| 1916 | 188,329 | |
| 1917 | 328,386 | |
| 1918 | 257,029 | |
| 1919 | 268,530 | |
| 1920 | 413,038 | |
| 1921 | 506,993 | |
| 1922 | 51,423 | |
| 1923 | 384,434 | |
| 1924 | 580,308 | |
| 1925 | 586,652 | |
| 1926 | 583,745 | |
| 1927 | 722,425 | |
| 1928 | 618,316 | |
| 1929 | 847,813 | |
| 1930 | 928,392 | |
| 1931 | 289,179 | |
| 1932 | 537,928 | |
| 1933 | 721,185 | |
| 1934 | 1,244,235 | Iron Prince (to 1947) |
| 1935 | 1,868,719 | |
| 1936 | 1,887,298 | Iron Baron (to 1942) |
| 1937 | 1,866,414 | |
| 1938 | 2,245,366 | |
| 1939 | 2,571,759 | |
| 1940 | 2,313,355 | |
| 1941 | 2,240,387 | |
| 1942 | 2,122,052 | |
| 1943 | 2,182,831 | |
| 1944 | 2,029,241 | |
| 1945 | 1,519,594 | |
| 1946 | 1,818,216 | |
| 1947 | 2,145,529 | |
| 1948 | 2,034,826 | |
| 1949 | 1,447,731 | |
| 1950 | 2,349,824 | |
| 1951 | 2,400,577 | |
| 1952 | 2,683,966 | |
| 1953 | 2,591,335 | |
| 1954 | 2,867,060 | |
| 1955 | 3,043,979 | |
| 1956 | 3,587,095 | |
| 1957 | 3,389,237 | |
| 1958 | 3,352,596 | Iron Prince |
| 1959 | 3,423,209 | |
| 1960 | 3,436,601 | |
| 1961 | 3,991,343 | |
| 1962 | 3,510,265 | |
| 1963 | 4,242,342 | |
| 1964 | 4,367,081 | |
| Total | 90,566,108 | |

IRON ORE PRODUCTION—WESTERN AUSTRALIA

| Year | Wundowie | Clackline | Green-bushes | Koolya-nobbing | Yampi Sound | Miscel-laneous | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| Prior to 1899 | — | — | — | — | — | [a]100 | 100 |
| 1899 | [b]9,312 | 1,540 | 2,000 | — | — | — | 12,852 |
| 1900 | [c]12,251 | — | — | — | — | — | 12,251 |
| 1901 | [c]9,972 | 7,422 | 2,725 | — | — | [d]450 | 20,569 |
| 1902 | — | 2,845 | 1,955 | — | — | — | 4,800 |
| 1903 | — | — | 220 | — | — | — | 220 |
| 1904 | — | 860 | 581 | — | — | — | 1,441 |
| 1905 | — | 3,213 | — | — | — | — | 3,213 |
| 1906 | — | 1,280 | — | — | — | — | 1,280 |
| 1907 | — | 1,094 | — | — | — | — | 1,094 |
| 1908–1909 | — | — | — | — | — | — | — |
| 1910 | — | — | — | — | 10 | — | 10 |
| 1911–1941 | — | — | — | — | — | — | — |
| 1942 | — | — | — | 150 | — | — | 150 |
| 1943 | — | — | — | 84 | — | — | 84 |
| 1944–1947 | — | — | — | — | — | — | — |
| 1948 | 7,222 | — | — | — | — | — | 7,222 |
| 1949 | 12,524 | — | — | — | — | — | 12,524 |
| 1950 | 11,825 | — | — | 3,070 | — | — | 14,895 |
| 1951 | 6,333 | — | — | 18,935 | 10,384 | — | 35,652 |
| 1952 | 6,643 | — | — | 12,200 | 204,945 | — | 223,788 |
| 1953 | 3,478 | — | — | 16,010 | 687,895 | — | 707,383 |
| 1954 | 1,417 | — | — | 15,813 | 634,514 | — | 651,744 |
| 1955 | — | — | — | 31,748 | 496,882 | — | 528,630 |
| 1956 | — | — | — | 9,075 | 327,815 | — | 336,890 |
| 1957 | — | — | — | 26,550 | 389,686 | — | 416,236 |
| 1958 | — | — | — | 36,215 | 536,713 | — | 572,928 |
| 1959 | — | — | — | 54,845 | 672,239 | — | 727,084 |
| 1960 | — | — | — | 91,316 | 837,147 | — | 928,463 |
| 1961 | — | — | — | 74,780 | 1,284,768 | — | 1,359,548 |
| 1962 | — | — | — | 110,397 | 1,320,355 | — | 1,430,752 |
| 1963 | — | — | — | 55,525 | 1,277,613 | — | 1,333,138 |
| 1964 | — | — | — | 76,851 | 1,280,864 | — | 1,357,715 |
| Total | 80,977 | 18,254 | 7,481 | 633,564 | 9,961,830 | 550 | 10,702,656 |

[a] Whim Creek—West Pilbara goldfield. [b] Includes 4,712 tons from Coates Paddock and 4,600 tons from Werribee, respectively 2 miles and 1 mile from Wundowie. [c] Avon—probably near Wundowie. [d] Boulder.
Production prior to 1911 was used as a smelting flux. Production since 1948 was used for iron and steel production.

## PRODUCTION OF FERRO-ALLOYS—AUSTRALIA

| Year | Ferro-silicon | | | Ferro-silico-manganese (40% Mn) | Ferro-chrome | | Ferro-manganese | | Ferro-zirconium | Ferro-nickel | Silico-manganese | Chrome silicide | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 75% Si | 50% Si | 15% Si | | High carbon | Low carbon | High carbon | Low carbon | | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1941[a] | — | 4,083 | — | — | 483 | — | — | — | — | — | — | 17 | 4,583 |
| 1942[a] | — | 5,727 | — | — | 3,252 | 453 | 2,784 | — | 77 | — | — | 790 | 13,083 |
| 1943[a] | 170 | 6,504 | — | 1,161 | 2,664 | 583 | 5,278 | — | 343 | — | — | 75 | 16,778 |
| 1944[a] | 152 | 8,333 | — | 498 | — | 437 | 1,156 | — | — | — | — | 350 | 10,926 |
| 1945[a] | — | 5,159 | — | 148 | — | 26 | — | — | 40 | — | — | — | 5,373 |
| 1946[a] | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1947[a] | 383 | 864 | — | 382 | — | 2 | 3,278 | — | — | — | — | — | 4,909 |
| 1948[a] | 364 | 4,091 | — | 1,303 | 590 | — | 1,375 | — | 33 | — | n.a. | — | [i]7,756 |
| 1949[a] | 974 | 3,139 | — | 440 | 451 | 19 | 2,000 | — | — | — | n.a. | — | [i]7,023 |
| 1950[a] | 1,006 | 4,571 | — | 774 | 524 | — | 2,915 | — | — | — | n.a. | — | [i]9,790 |
| 1951[b] | 1,361 | 5,735 | — | — | — | — | 10,809 | — | 53 | — | 512 | 161 | 18,631 |
| 1952[b] | 1,266 | 5,389 | — | — | 1,034 | — | 5,744 | 478 | 95 | — | 1,074 | — | 15,080 |
| 1953[b] | 1,376 | 5,659 | 121 | — | 668 | — | 3,256 | 1,097 | 20 | — | 1,680 | — | 13,877 |
| 1954[b] | 1,227 | 3,229 | — | — | 858 | — | 11,205 | 153 | — | — | 417 | — | 17,089 |
| 1955[b] | — | 3,271 | — | — | 421 | — | 6,665 | — | — | 3 | 215 | — | 10,575 |
| 1956[b] | — | 4,008 | — | — | 385 | — | 12,650 | — | — | 751 | 163 | — | 17,957 |
| 1957[b] | — | 944 | — | — | 301 | — | 18,075 | — | — | 992 | — | — | 20,312 |
| 1958[b] | — | 1,352 | — | — | 339 | — | 23,136 | — | — | 384 | — | — | 25,211 |
| 1959[b] | — | 1,663 | — | 162 | 610 | — | 17,511 | — | — | — | 709 | — | 20,655 |
| 1960[b] | — | 7,200 | — | — | 597 | — | 6,440 | — | — | 646 | 1,698 | — | 16,581 |
| 1961[b] | — | 8,144 | — | — | 705 | — | — | — | — | 1,426 | 2,409 | — | 12,684 |
| 1962 | — | 7,438 | — | — | 571 | — | 17,000 | — | — | — | 5,039 | — | 30,048 |
| 1963 | — | 8,202 | — | — | 1,094 | — | 34,000 | — | — | — | 4,322 | — | 47,618 |
| 1964 | — | 5,015 | — | — | 2,441 | — | 33,729 | — | — | — | 13,510 | 238 | 54,933 |

[a] Year ended 31st May. [b] Year ended 30th November.

FERRO-ALLOYS—EXPORTS—AUSTRALIA

| Year | Ferro-alloys, unworked | | | |
|---|---|---|---|---|
| | tons | | £, f.o.b. | |
| 1945–46 | 56 | | 1,894 | |
| 1946–47 | 108 | | 3,565 | |
| 1947–48 | 84 | | 4,034 | |
| 1948–49 | 121 | | 4,846 | |
| | Ferro-manganese (incl. powder) | Ferro-alloy n.e.i. | Total | |
| | tons | tons | tons | £, f.o.b. |
| 1950 | 61 | 60 | 121 | 7,593 |
| 1951 | 10 | 71 | 81 | 5,045 |
| 1952 | 66 | 54 | 120 | 15,755 |
| 1953 | 41 | 70 | 111 | 11,744 |
| | Ferro-alloys, ingots | | | |
| | tons | | £, f.o.b. | |
| 1954 | 17 | | 2,298 | |
| 1955 | 3 | | 510 | |
| 1956 | 2 | | 836 | |
| 1957 | 26 | | 6,458 | |
| 1958 | 5 | | 2,031 | |
| 1959 | 14 | | 5,218 | |
| 1960 | 16 | | 3,420 | |
| 1961 | 27 | | 5,505 | |
| 1962 | 52 | | 7,528 | |
| 1963 | 8 | | 2,430 | |
| 1964 | 94 | | 54,586 | |

## FERRO-ALLOYS—IMPORTS—AUSTRALIA

| Year | Ferro-manganese (incl. powder) | Ferro-alloys n.e.i. | | | | | Total | |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | | | | | tons | Value f.o.b. £A |
| 1936–37 | 6,270 | 7,037 | | | | | 13,307 | 194,000 |
| 1937–38 | 8,939 | 5,647 | | | | | 14,586 | 307,000 |
| 1938–39 | 2,131 | 4,065 | | | | | 6,196 | 139,000 |
| 1939–40 | 3,353 | 3,513 | | | | | 6,866 | 201,000 |
| 1940–41 | 2,124 | 1,259 | | | | | 3,383 | 288,000 |
| 1941–42 | 1,001 | 808 | | | | | 1,809 | 274,000 |
| 1942–43 | 201 | 759 | | | | | 960 | 257,000 |
| 1943–44 | 367 | 828 | | | | | 1,195 | 247,000 |
| 1944–45 | 67 | 985 | | | | | 1,052 | 72,000 |
| 1945–46 | 542 | 154 | | | | | 696 | 46,000 |
| 1946–47 | 351 | 835 | | | | | 1,186 | 127,000 |
| 1947–48 | 64 | 1,161 | | | | | 1,225 | 99,000 |
| 1948–49 | 311 | 817 | | | | | 1,128 | 158,000 |
| | | Ferro-molyb-denum | Ferro-chromium | Ferro-alloys n.e.i. | | | | |
| | | tons | tons | tons | | | | |
| 1950 | 389 | 19 | 495 | 486 | | | 1,389 | 148,000 |
| 1951 | 80 | 41 | 755 | 1,456 | | | 2,332 | 419,000 |
| 1952 | 56 | 56 | 1,514 | 862 | | | 2,488 | 521,000 |
| 1953 | 111 | 51 | 1,154 | 330 | | | 1,646 | 383,000 |
| 1954 | 1,516 | 159 | 615 | 3,753 | | | 6,043 | 675,000 |
| | | | | Ferro-silicon | Ferro-alloys n.e.i. (excl. powder) | Ferro-alloy powder | | |
| | | | | tons | tons | tons | | |
| 1955 | 5,630 | 130 | 1,987 | 5,416 | 897 | 13 | 14,073 | 1,476,000 |
| 1956 | 7,470 | 131 | 1,305 | 5,576 | 786 | 639 | 15,928 | 1,766,000 |
| 1957 | 5,191 | 142 | 1,776 | 6,653 | 469 | 142 | 14,373 | 2,117,000 |
| 1958 | 3,207 | 164 | 1,892 | 7,473 | 737 | 106 | 13,579 | 1,540,000 |
| 1959 | 10,105 | 108 | 2,824 | 10,463 | 684 | 75 | 24,259 | 1,916,000 |
| 1960 | 30,582 | 219 | 5,714 | 3,905 | 1,434 | 99 | 41,953 | 3,472,000 |
| 1961 | 40,473 | 283 | 4,133 | 9,677 | 1,590 | 95 | 56,251 | 4,258,000 |
| 1962 | 8,723 | 63 | 1,974 | 3,798 | 1,660 | 147 | 16,365 | 1,402,000 |
| 1963 | 12,897 | 149 | 2,713 | 9,558 | 3,461 | 293 | 29,071 | 3,092,000 |
| 1964 | 6,437 | 249 | 2,993 | 7,630 | 2,506 | 399 | 20,214 | 2,269,000 |

# LEAD


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## LEAD PRODUCTION—AUSTRALIA
(Lead content of ores, concentrates, etc.)

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| | Total 1880 to 1902 | Estimated Total to end of 1902 | Estimated Total to end of 1902 | Total 1888 to 1902 | Total 1841 to 1902 | Estimated Total 1850 to 1902 | Total 1886 to 1902 | Total to end of 1902 |
| | 18,393 | 1,716,000 | 397 | 130,059 | 12,597 | 16,934 | 1,234 | 1,895,614 |
| 1903 | 3,795 | 121,999 | — | 11,486 | 558 | — | — | 137,838 |
| 1904 | 2,046 | 165,545 | — | 14,390 | — | — | 167 | 182,148 |
| 1905 | 2,422 | 162,226 | — | 24,257 | 31 | — | 97 | 189,033 |
| 1906 | 2,809 | 138,608 | — | 23,016 | 30 | — | 234 | 164,697 |
| 1907 | 5,158 | 191,700 | — | 22,022 | 600 | 6 | 434 | 219,920 |
| 1908 | 7,109 | 172,872 | — | 15,035 | 540 | 478 | 10 | 196,044 |
| 1909 | 5,240 | 155,128 | — | 25,097 | 46 | 264 | — | 185,775 |
| 1910 | 2,392 | 188,631 | — | 8,183 | 27 | 137 | — | 199,370 |
| 1911 | 1,771 | 206,522 | — | 12,165 | — | 1,264 | 2 | 221,724 |
| 1912 | 3,108 | 229,739 | — | 18,068 | — | 1,331 | 45 | 252,291 |
| 1913 | 3,603 | 240,104 | — | 7,882 | 92 | 2,819 | 125 | 254,625 |
| 1914 | 724 | 191,295 | — | 5,463 | 11 | 2,539 | — | 200,032 |
| 1915 | 487 | 155,261 | — | 4,666 | 35 | 1,717 | 32 | 162,198 |
| 1916 | 615 | 138,565 | — | 4,974 | 146 | 3,673 | 48 | 148,021 |
| 1917 | 480 | 154,510 | — | 4,577 | 373 | 4,955 | 9 | 164,904 |
| 1918 | 221 | 186,597 | — | 3,475 | 302 | 6,658 | 13 | 197,266 |
| 1919 | 135 | 62,500 | — | 2,357 | — | 1,197 | 4 | 66,193 |
| 1920 | 1,709 | 7,664 | — | 3,856 | 49 | 5,073 | 8 | 18,359 |
| 1921 | 1,057 | 77,317 | — | 1,435 | — | 1,197 | — | 81,006 |
| 1922 | 2,801 | 140,894 | — | 4,926 | — | 3,041 | — | 151,662 |
| 1923 | 5,487 | 152,514 | — | 4,784 | 1 | 2,237 | — | 165,023 |
| 1924 | 3,695 | 139,593 | — | 4,559 | 4 | 3,027 | — | 150,878 |
| 1925 | 5,235 | 172,322 | — | 5,526 | 22 | 3,457 | 19 | 186,581 |
| 1926 | 3,735 | 169,276 | — | 5,893 | 17 | 2,467 | 14 | 181,402 |
| 1927 | 914 | 188,846 | 6 | 5,583 | 3 | 820 | 19 | 196,191 |
| 1928 | 42 | 170,544 | — | 4,787 | — | 34 | 1 | 175,408 |
| 1929 | 389 | 185,120 | — | 5,983 | 3 | 345 | 5 | 191,845 |
| 1930 | 231 | 189,753 | — | 4,238 | — | 36 | 3 | 194,261 |
| 1931 | 17,184 | 129,061 | — | 2,189 | — | — | 5 | 148,439 |
| 1932 | 47,716 | 158,759 | — | 2,694 | — | — | — | 209,169 |
| 1933 | 45,150 | 173,026 | — | 2,644 | — | 2 | 12 | 220,834 |
| 1934 | 42,462 | 184,234 | — | 1,507 | — | 3 | 1 | 228,207 |

LEAD PRODUCTION—AUSTRALIA—*continued*
(Lead content of ores, concentrates, etc.)

| Year | Queensland | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1935 | 32,954 | 186,690 | — | 1,488 | — | — | — | 221,132 |
| 1936 | 35,763 | 186,162 | — | 7,563 | 6 | 121 | — | 229,615 |
| 1937 | 38,474 | 196,482 | — | 9,625 | 7 | 347 | — | 244,935 |
| 1938 | 41,196 | 221,407 | — | 11,260 | 1 | 41 | 20 | 273,925 |
| 1939 | 45,292 | 223,117 | — | 11,610 | — | — | — | 280,019 |
| 1940 | 48,118 | 226,482 | — | 14,147 | — | — | — | 288,747 |
| 1941 | 43,273 | 235,439 | — | 12,363 | — | — | — | 291,075 |
| 1942 | 33,512 | 217,860 | — | 10,325 | — | — | — | 261,697 |
| 1943 | 8,579 | 187,638 | — | 9,171 | — | 110 | — | 205,498 |
| 1944 | — | 179,386 | — | 9,452 | — | — | — | 188,838 |
| 1945 | — | 155,537 | — | 6,793 | 4 | — | — | 162,334 |
| 1946 | 12,755 | 161,182 | — | 7,417 | 1 | 28 | — | 181,382 |
| 1947 | 29,590 | 155,013 | — | 8,275 | 21 | 17 | — | 192,916 |
| 1948 | 30,779 | 169,996 | — | 7,905 | 106 | 1,408 | 17 | 210,211 |
| 1949 | 37,697 | 163,553 | — | 8,508 | 99 | 1,972 | 7 | 211,836 |
| 1950 | 39,652 | 175,575 | — | 9,626 | 59 | 1,302 | 14 | 226,229 |
| 1951 | 34,055 | 168,562 | — | 8,250 | 41 | 1,913 | — | 212,821 |
| 1952 | 41,723 | 173,433 | — | 8,540 | 51 | 5,495 | — | 229,242 |
| 1953 | 37,828 | 217,574 | — | 10,038 | 20 | 4,700 | — | 270,160 |
| 1954 | 42,191 | 230,392 | — | 11,533 | 14 | 1,497 | 2 | 285,629 |
| 1955 | 48,814 | 234,854 | — | 11,267 | 2 | 1,007 | — | 295,944 |
| 1956 | 43,100 | 238,319 | — | 12,217 | 17 | 5,829 | — | 299,482 |
| 1957 | 51,269 | 266,928 | 4 | 12,445 | 20 | 3,087 | — | 333,753 |
| 1958 | 65,799 | 246,896 | — | 13,785 | 13 | 1,853 | — | 328,346 |
| 1959 | 54,415 | 246,449 | — | 14,039 | 8 | 1,382 | — | 316,293 |
| 1960 | 57,518 | 235,868 | — | 13,038 | — | 1,739 | — | 308,163 |
| 1961 | 45,280 | 211,679 | — | 12,253 | — | 433 | 11 | 269,656 |
| 1962 | 62,669 | 292,381 | — | 14,754 | — | 306 | — | 370,110 |
| 1963 | 66,711 | 328,462 | — | 14,982 | — | 136 | — | 410,291 |
| 1964 | 61,927 | 296,954 | — | 15,398 | — | 620 | 7 | 374,856 |
| Total | 1,429,248 | 13,246,995 | 407 | 715,792 | 15,977 | 101,054 | 2,620 | 15,512,093 |

LEAD SMELTER OUTPUT—AUSTRALIA
(Lead content)

| Year | Zeehan | Chillagoe[a] | Cockle Creek | Mt. Isa | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| Total to end of 1909 | 51,911 | 24,210 | 294,183 | — | [b]732,917 |
| 1910 | — | 986 | 19,129 | — | 20,115 |
| 1911 | 3,204 | 926 | 15,324 | — | 19,454 |
| 1912 | 5,123 | 1,858 | 15,605 | — | 22,586 |
| 1913 | 3,691 | 2,273 | 17,554 | — | 23,518 |
| 1914 | — | 260 | 26,247 | — | 26,507 |
| 1915 | — | — | 30,305 | — | [c]34,185 |
| 1916 | — | — | 25,466 | — | 25,466 |
| 1917 | — | — | 20,817 | — | 20,817 |
| 1918 | — | — | 21,922 | — | 21,922 |
| 1919 | — | — | 11,497 | — | 11,497 |
| 1920 | — | 1,071 | 413 | — | 1,484 |
| 1921 | — | 658 | 20,353 | — | 21,011 |
| 1922 | — | 1,775 | 8,113 | — | 9,888 |
| 1923 | — | 3,474 | — | — | 3,474 |
| 1924 | — | 1,808 | — | — | 1,808 |
| 1925 | — | 2,751 | — | — | 2,751 |
| 1926 | — | 3,508 | — | — | 3,508 |
| 1927 | — | 489 | — | — | 489 |
| 1928 | — | — | — | — | — |
| 1929 | — | 587 | — | — | 587 |
| 1930 | — | 252 | — | — | 252 |
| 1931 | — | — | — | 17,128 | 17,128 |
| 1932 | — | — | — | 47,633 | 47,633 |
| 1933 | — | 316 | — | 45,038 | 45,354 |
| 1934 | — | — | — | 42,437 | 42,437 |
| 1935 | — | — | — | 32,900 | 32,900 |
| 1936 | — | — | — | 35,728 | 35,728 |
| 1937 | — | — | — | 38,121 | 38,121 |

[a] Before 1915 lead content of smelted silver-lead and copper ores and concentrates; 1920–33 lead content of silver-lead bullion. [b] Includes 362,613 tons of silver-lead bullion produced at Broken Hill covering the years 1888 to 1898 inclusive. (Production figure is the tonnage of bullion handled by Silverton Tramway Co. which may reasonably be accepted as being related to smelting operations at Broken Hill.). [c] Includes 3,963 tons of silver-lead bullion, containing an estimated 3,880 tons of lead, produced at Port Pirie.

LEAD SMELTER OUTPUT—AUSTRALIA—*continued*
(Lead content)

| Year | Zeehan | Chillagoe[a] | Cockle Creek | Mt. Isa | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1938 | — | — | — | 41,147 | 41,147 |
| 1939 | — | — | — | 43,955 | 43,955 |
| 1940 | — | — | — | 48,118 | 48,118 |
| 1941 | — | — | — | 42,027 | 42,027 |
| 1942 | — | — | — | 33,512 | 33,512 |
| 1943 | — | — | — | 8,579 | 8,579 |
| 1944 | — | — | — | — | — |
| 1945 | — | — | — | — | — |
| 1946 | — | — | — | 12,288 | 12,288 |
| 1947 | — | — | — | 29,437 | 29,437 |
| 1948 | — | — | — | 30,165 | 30,165 |
| 1949 | — | — | — | 32,621 | 32,621 |
| 1950 | — | — | — | 37,021 | 37,021 |
| 1951 | — | — | — | 31,872 | 31,872 |
| 1952 | — | — | — | 37,709 | 37,709 |
| 1953 | — | — | — | 34,050 | 34,050 |
| 1954 | — | — | — | 38,146 | 38,146 |
| 1955 | — | — | — | 37,392 | 37,392 |
| 1956 | — | — | — | 41,658 | 41,658 |
| 1957 | — | — | — | 46,891 | 46,891 |
| 1958 | — | — | — | 57,171 | 57,171 |
| 1959 | — | — | — | 50,310 | 50,310 |
| 1960 | — | — | — | 52,723 | 52,723 |
| 1961 | — | — | 9,011 | 39,079 | 48,090 |
| 1962 | — | — | 16,479 | 56,631 | 73,110 |
| 1963 | — | — | 20,712 | 59,949 | 80,661 |
| 1964 | — | — | 23,148 | 55,156 | 78,304 |
| Total | 63,929 | 47,202 | 596,278 | 1,256,592 | 2,330,494 |

REFINED LEAD (PIG) PRODUCTION—AUSTRALIA

| Year | Total tons | Remarks |
|---|---|---|
| Total to end of 1909 | [i]1,052,464 | |
| 1910 | 73,388 | |
| 1911 | 77,240 | Total production by Broken Hill Proprietary Co. Ltd. at Port Pirie to 2nd June 191 |
| 1912 | 83,261 | was 1,487,640 tons of market lead. |
| 1913 | 87,377 | |
| 1914 | 66,332 | |
| 1915 | 97,480 | Broken Hill Associated Smelters Pty. Ltd. took over production at Port Pirie at 2 |
| 1916 | 107,635 | June, 1915. |
| 1917 | 125,100 | |
| 1918 | 166,731 | |
| 1919 | 82,732 | Includes production of refined lead by Sulphide Corporation Ltd. at Cockle Cre |
| 1920 | 4,077 | (total from 1917 to 1922 79,154 tons of refined lead). |
| 1921 | 55,749 | |
| 1922 | 105,528 | |
| 1923 | 118,513 | |
| 1924 | 126,625 | |
| 1925 | 146,129 | |
| 1926 | 150,460 | |
| 1927 | 164,480 | |
| 1928 | 155,076 | |
| 1929 | 176,820 | |
| 1930 | 168,291 | |
| 1931 | 133,306 | |
| 1932 | 134,499 | |
| 1933 | 159,393 | |
| 1934 | 160,201 | |
| 1935 | 181,211 | |
| 1936 | 159,504 | |
| 1937 | 186,757 | |
| 1938 | 182,214 | |
| 1939 | 199,437 | |

Australian smelter production of lead has consisted of—

(a) Direct smelting, mainly oxidised ores at Broken Hill by
  (i) Broken Hill Proprietary Co. Ltd. 1886–1898
  (ii) British Broken Hill Proprietary Co. Ltd. 1890–1893
  (iii) Broken Hill South Ltd. 1891–1893
  (iv) Central Line, later Sulphide Corp. Ltd. 1890–1892
  (v) The Broken Hill Proprietary Block 14 Co. Ltd. 1888–1893

(b) Smelting and later refining at Port Pirie of lead concentrates from Broken Hill by
  (i) British Broken Hill Proprietary Co. Ltd. 1889–1890
  (ii) Broken Hill Proprietary Co. Ltd. 1890–1915
  (iii) Broken Hill Proprietary Block 14 Co. Ltd. 1890–1892
  (iv) Australian Smelting & Refining Co. 1890–1892
  (v) Broken Hill Associated Smelters Pty. Ltd. since 1915

(c) Smelting at Port Adelaide by Broken Hill Proprietary Block 14 Co. Ltd. 1894–1903

(d) Smelting of lead concentrates from Broken Hill and of custom ores at Cockle Creek by Sulphide Corp. Ltd. from 18 to 1922. From 1917 a Parkes-process lead refinery operated at the works. A new lead-zinc smelter of an Improv Vertical Furnace producing lead bullion and zinc of g.o.b. quality is in operation since August 1961.

(e) Production of lead bullion at Mount Isa from 1931 to 1943 and since 1946.

(f) Irregular production of lead bullion by Chillagoe Smelters in Queensland, Zeehan Smelters in Tasmania and sund small smelters elsewhere.

Total production of lead-bullion at Broken Hill covering the years 1888 to 1899 inclusive was 362,627 tons (which is the figu of tonnage handled by Silverton Tramway Co.). At Cockle Creek during the period 1897 to 1922 the bullion produced contain 526,928 tons of lead and refined lead produced in the years 1917 to 1922 a total of 79,154 tons. Total production of the Brok Hill Proprietary Co. Ltd. at Port Pirie prior to the formation of the Broken Hill Associated Smelters Pty. Ltd. in 1915 w 1,487,640 tons of market lead.

No statistical information is available on the smelting operations of the Broken Hill Proprietary Block 14 Co. Ltd. at Pc Adelaide; the British Broken Hill Proprietary Co. Ltd., the Broken Hill Proprietary Block 14 Co. Ltd. and the Australian Smelti and Refining Co. Ltd. at Port Pirie.

Total recorded production at Chillagoe State Smelters, Queensland up to 1939 was 62,932 tons of lead bullion and at Zeeh Smelters in the years 1899 to 1913 79,302 tons of lead bullion, containing 63,929 tons of lead.

REFINED LEAD (PIG) PRODUCTION—AUSTRALIA—*continued*

| Year | Total | Remarks |
|---|---|---|
| | tons | |
| 1940 | 189,150 | |
| 1941 | 213,476 | |
| 1942 | 206,929 | |
| 1943 | 180,629 | |
| 1944 | 154,547 | |
| 1945 | 155,852 | |
| 1946 | 137,459 | |
| 1947 | 158,548 | |
| 1948 | 157,505 | |
| 1949 | 150,056 | |
| 1950 | 160,526 | |
| 1951 | 165,758 | |
| 1952 | 156,639 | |
| 1953 | 172,468 | |
| 1954 | 200,409 | |
| 1955 | 187,134 | |
| 1956 | 194,506 | |
| 1957 | 192,161 | |
| 1958 | 191,474 | |
| 1959 | 185,805 | |
| 1960 | 189,823 | |
| 1961 | 162,264 | |
| 1962 | 190,125 | |
| 1963 | 224,605 | |
| 1963 | 203,100 | |
| Total | 9,368,958 | |

REFINED LEAD—PRICES
(Yearly average)

| Year | Aust. | U.K. | U.S.A. | Year | Aust. | U.K. | U.S.A. |
|---|---|---|---|---|---|---|---|
| | *a* £A per ton | *b* £stg. per ton | *c* US cents per lb. | | *a* £A per ton | *b* £stg. per ton | *c* US cents per lb. |
| 1920 | 38 | 38 | 8·08 | 1943 | 22 | 25 | 6·50 |
| 1921 | 23 | 23 | 4·55 | 1944 | 22 | 25 | 6·50 |
| 1922 | 24 | 24 | 5·71 | | | | |
| 1923 | 27 | 27 | 7·25 | 1945 | 22 | 28 | 6·50 |
| 1924 | 34 | 34 | 8·08 | 1946 | 22 | 48 | 8·11 |
| | | | | 1947 | 22 | 85 | 14·67 |
| 1925 | 36 | 36 | 9·02 | 1948 | 22 | 96 | 18·04 |
| 1926 | 31 | 31 | 8·42 | 1949 | 35 | 103 | 15·36 |
| 1927 | 24 | 24 | 6·75 | | | | |
| 1928 | 21 | 21 | 6·31 | 1950 | 44 | 106 | 13·30 |
| 1929 | 23 | 23 | 6·83 | 1951 | 65 | 162 | 17.49 |
| | | | | 1952 | 75 | 137 | 16·47 |
| 1930 | 18 | 18 | 5·52 | 1953 | 104 | 91 | 13·48 |
| 1931 | 13 | 13 | 4·24 | 1954 | 115 | 96 | 14·05 |
| 1932 | 12 | 12 | 3·18 | | | | |
| 1933 | 12 | 12 | 3·87 | 1955 | 127 | 106 | 15·14 |
| 1934 | 11 | 11 | 3·86 | 1956 | 140 | 116 | 16·01 |
| | | | | 1957 | 117 | 97 | 14·70 |
| 1935 | 14 | 14 | 4·06 | 1958 | 87 | 72 | 12·11 |
| 1936 | 18 | 18 | 4·71 | 1959 | 100 | 71 | 12·21 |
| 1937 | 23 | 23 | 6·01 | | | | |
| 1938 | 15 | 15 | 4·74 | 1960 | 100 | 72 | 11·95 |
| 1939 | 16 | 15 | 5·05 | 1961 | 99·35 | 64 | 10·87 |
| | | | | 1962 | 82·13 | 56 | 9·36 |
| 1940 | 22 | 25 | 5·18 | 1963 | 84·59 | 63 | 11·14 |
| 1941 | 22 | 25 | 5·79 | 1964 | 100·67 | 101 | 13·60 |
| 1942 | 22 | 25 | 6·48 | | | | |

[a] Min. 99·97% f.o.b. Port Pirie. [b] Quotation of the L.M.E. for the current month ex-warehouse or ship excl. duty for good, soft pig lead. From 1st September, 1939 to 30th September, 1952 trade was discontinued at the L.M.E. and prices were under Government control. L.M.E. reopened on 1st October, 1952 for refined pig lead, min. 99·97% for the current month ex-warehouse or ship excl. duty. [c] Quotation for lead common grade, New York.

## LEAD—EXPORTS[a]—AUSTRALIA

| Year | Lead Ore and Concentrate[b] | | | Lead Bullion[c] | | Pig Lead and Unwrought Shapes[d] | |
|---|---|---|---|---|---|---|---|
| | tons | Pb content | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1903 | 80,196 | n.a. | 448,694 | — | — | 31,636 | 318,226 |
| 1904 | 111,769 | n.a. | 564,025 | — | — | 81,315 | 872,000 |
| 1905 | 29,083 | n.a. | 236,461 | — | — | 63,897 | 783,823 |
| 1906 | 50,585 | n.a. | 500,528 | — | — | 50,943 | 830,217 |
| 1907 | 45,390 | n.a. | 493,269 | — | — | 50,297 | 897,256 |
| 1908 | 56,887 | n.a. | 497,955 | — | — | 74,671 | 954,422 |
| 1909 | 95,724 | 38,282 | 765,639 | — | — | 40,415 | 477,635 |
| 1910 | 126,031 | 79,554 | 1,030,353 | — | — | 66,365 | 780,489 |
| 1911 | 161,302 | 106,260 | 1,402,071 | — | — | 67,965 | 865,164 |
| 1912 | 119,763 | 75,896 | 1,288,457 | — | — | 76,939 | 1,262,034 |
| 1913 | 177,043 | 118,790 | 1,895,922 | — | — | 76,454 | 1,431,991 |
| 1914 | n.a. | n.a. | n.a. | — | — | n.a. | n.a. |
| 1914–15 | 32,659 | 18,740 | 303,413 | — | — | 71,373 | 1,406,448 |
| 1915–16 | 9,778 | 5,559 | 86,106 | — | — | 81,848 | 2,271,643 |
| 1916–17 | 3,086 | 1,851 | 30,867 | — | — | 136,647 | 3,512,787 |
| 1917–18 | n.a. | n.a. | n.a. | — | — | 95,248 | 2,819,392 |
| 1918–19 | † | † | 5 | — | — | 103,586 | 2,891,006 |
| 1919–20 | 2,137 | 1,745 | 59,214 | — | — | 74,030 | 2,690,432 |
| 1920–21 | 3,827 | 2,247 | 72,025 | — | — | 19,769 | 667,919 |
| 1921–22 | 8,746 | 5,568 | 113,489 | — | — | 72,910 | 1,720,754 |
| 1922–23 | 22,467 | 11,830 | 308,316 | — | — | 96,004 | 2,472,795 |
| 1923–24 | 36,829 | 17,987 | 559,590 | — | — | 105,867 | 3,198,785 |
| 1924–25 | 26,457 | 15,848 | 507,082 | — | — | 115,020 | 4,080,967 |
| 1925–26 | 35,721 | 21,231 | 717,693 | — | — | 127,028 | 4,416,762 |
| 1926–27 | 31,035 | 17,686 | 528,996 | — | — | 128,248 | 3,818,479 |
| 1927–28 | 20,575 | 11,701 | 284,363 | — | — | 160,070 | 3,469,523 |
| 1928–29 | 11,469 | 5,933 | 159,965 | — | — | 142,631 | 3,217,570 |
| 1929–30 | 8,680 | 5,481 | 137,087 | — | — | 160,522 | 3,426,378 |
| 1930–31 | 25,394 | 18,431 | 231,721 | — | — | 154,648 | 2,418,710 |
| 1931–32 | 5,406 | 2,793 | 38,073 | — | — | 149,851 | 2,267,924 |
| 1932–33 | 10,193 | 7,168 | 98,452 | — | — | 181,610 | 2,384,056 |
| 1933–34 | 35,997 | 27,130 | 315,270 | — | — | 184,365 | 2,418,072 |
| 1934–35 | 18,847 | 14,097 | 189,380 | — | — | 183,406 | 2,406,673 |
| 1935–36 | 17,230 | 13,349 | 221,295 | — | — | 192,811 | 3,811,689 |
| 1936–37 | 29,076 | 17,929 | 499,501 | — | — | 171,387 | 4,736,992 |
| 1937–38 | 34,274 | 21,918 | 546,322 | — | — | 212,765 | 4,913,762 |
| 1938–39 | 34,871 | 22,202 | 489,912 | — | — | 204,996 | 4,276,091 |
| 1939–40 | 61,100 | 37,362 | 778,545 | — | — | 218,401 | 4,812,906 |
| 1940–41 | 30,110 | 17,214 | 372,209 | — | — | 132,079 | 2,924,012 |
| 1941–42 | 46,776 | 29,420 | 581,533 | — | — | 264,382 | 6,311,293 |
| 1942–43 | 34,478 | 18,267 | 372,586 | — | — | 149,343 | 3,446,057 |
| 1943–44 | 39,042 | 21,356 | 604,214 | — | — | 126,575 | 3,158,313 |
| 1944–45 | 59,477 | 32,930 | 782,522 | — | — | 200,561 | 5,556,418 |
| 1945–46 | 16,957 | 7,845 | 207,447 | — | — | 104,515 | 4,075,098 |
| 1946–47 | 29,119 | 15,854 | 796,174 | 23,850 | 2,055,658 | 125,453 | 8,598,565 |
| 1947–48 | 10,621 | 5,170 | 468,211 | 24,915 | 2,685,057 | 112,771 | 10,909,953 |
| 1948–49 | 18,430 | [e]9,260 | 1,128,938 | 37,195 | 5,377,275 | 127,450 | 16,348,900 |
| 1949 | 10,047 | [e]5,730 | 600,388 | 37,734 | 5,368,997 | 104,719 | 13,105,888 |
| 1950 | 14,182 | [e]7,900 | 695,892 | 34,074 | 4,626,139 | 125,630 | 13,501,232 |
| 1951 | 27,811 | [e]15,520 | 2,265,225 | 33,138 | 6,631,229 | 106,180 | 19,480,694 |

[a] Not available prior to 1903. [b] Includes silver-lead. [c] Included with pig lead prior to 1st July, 1946. Lead content of recorded lead bullion is 99·3 per cent. [d] Includes lead bullion prior to 1st July, 1946.

LEAD—EXPORTS[a]—AUSTRALIA—*continued*

| Year | Lead Ore and Concentrate[b] | | | Lead Bullion[c] | | Pig Lead and Unwrought Shapes[d] | |
|---|---|---|---|---|---|---|---|
| | tons | Pb content | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1952 | 38,134 | [e]21,250 | 3,148,073 | 31,414 | 5,720,197 | 141,131 | 22,276,856 |
| 1953 | 64,528 | [e]39,900 | 3,571,262 | 42,339 | 6,819,581 | 148,433 | 15,866,276 |
| 1954 | 58,237 | [e]41,150 | 3,462,392 | 36,153 | 5,011,402 | 159,328 | 18,033,817 |
| 1955 | 59,336 | [e]41,650 | 4,204,664 | 38,493 | 5,933,389 | 145,874 | 18,557,786 |
| 1956 | 77,362 | [e]53,650 | 5,453,748 | 38,190 | 6,081,460 | 149,061 | 20,896,923 |
| 1957 | 91,236 | 70,736 | 4,813,033 | 47,618 | 7,085,409 | 160,589 | 19,368,490 |
| 1958 | 83,984 | 64,606 | 4,776,004 | 58,068 | 6,103,837 | 155,730 | 13,728,570 |
| 1959 | 90,797 | 67,692 | 5,034,110 | 53,021 | 5,497,728 | 138,448 | 12,025,415 |
| 1960 | 74,696 | 54,927 | 4,172,364 | 49,673 | 5,268,129 | 125,265 | 10,969,668 |
| 1961 | 86,268 | 61,813 | 4,589,979 | 46,069 | 4,475,780 | 145,174 | 11,381,648 |
| 1962 | 109,058 | 84,966 | 5,595,874 | 76,014 | 6,211,884 | 197,149 | 13,199,381 |
| 1963 | 121,983 | 92,845 | 6,714,175 | 76,482 | 6,693,066 | 174,988 | 13,243,967 |
| 1964 | 112,194 | 88,159 | 8,807,208 | 76,061 | 10,046,932 | 155,305 | 17,547,328 |

[a] Not available prior to 1903. [b] Includes silver-lead. [c] Included with pig lead prior to 1st July, 1946. Lead content of recorded lead bullion is 99·3 per cent. [d] Includes lead bullion prior to 1st July, 1946.

LEAD—IMPORTS—AUSTRALIA

| Year | Pig and other unwrought shapes | |
|---|---|---|
| | tons | £, f.o.b. |
| 1949–50 | 2 | 103 |
| 1950–51 | — | — |
| 1951–52 | — | — |
| 1952–53 | 3 | 354 |
| | Lead | |
| | tons | £, f.o.b. |
| 1953–54 | 10 | 1,716 |
| 1954–55 | 6 | 605 |
| 1955–56 | 8 | 1,039 |
| 1956–57 | 11 | 2,835 |
| 1957–58 | 2 | 214 |
| 1958–59 | 6 | 757 |
| 1959–60 | 10 | 923 |
| | Lead and lead base alloys excl. brazing and soldering alloys and wire | |
| | tons | £, f.o.b. |
| 1960–61 | 2,395 | 246,896 |
| 1961–62 | 4,296 | 394,178 |
| 1962–63 | 2,282 | 210,171 |
| 1963–64 | 235 | 22,761 |

## LEAD PRODUCTION—QUEENSLAND

| Year | Ravens-wood District | Chillagoe-Herberton District | Burke-town District | Mt. Isa District[a] | | Miscel-laneous[b] | Total |
|---|---|---|---|---|---|---|---|
| | | | | Lead in lead cons. etc. | Lead in zinc cons. | | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1880 | 70 | — | — | — | — | — | 70 |
| 1881 | 211 | — | — | — | — | — | 211 |
| 1882 | — | — | — | — | — | 1 | 1 |
| 1883 | 2,168 | 990 | — | — | — | — | 3,158 |
| 1884 | 2,512 | 120 | — | — | — | — | 2,632 |
| 1885 | 712 | 1,560 | — | — | — | — | 2,272 |
| 1886 | 730 | 340 | — | — | — | 45 | 1,115 |
| 1887 | 685 | 1,041 | — | — | — | — | 1,726 |
| 1888 | 58 | 1,083 | 6 | — | — | — | 1,147 |
| 1889 | — | — | — | — | — | 662 | 662 |
| 1890 | 194 | 1,441 | — | — | — | 90 | 1,725 |
| 1891 | 28 | 450 | — | — | — | 42 | 520 |
| 1892–93 | — | — | — | — | — | — | — |
| 1894 | — | 314 | — | — | — | 137 | 451 |
| 1895 | — | 278 | — | — | — | 85 | 363 |
| 1896 | — | 618 | — | — | — | — | 618 |
| 1897 | — | 326 | 58 | — | — | 1 | 385 |
| 1898 | — | 93 | 154 | — | — | 1 | 248 |
| 1899 | 4 | 38 | 13 | — | — | 1 | 56 |
| 1900 | 15 | 47 | 59 | — | — | 84 | 205 |
| 1901 | 8 | 213 | 117 | — | — | 223 | 561 |
| 1902 | 13 | 73 | 44 | — | — | 137 | 267 |
| 1903 | 14 | 3,677 | — | — | — | 104 | 3,795 |
| 1904 | 27 | 1,754 | — | — | — | 265 | 2,046 |
| 1905 | 13 | 1,901 | 7 | — | — | 501 | 2,422 |
| 1906 | 6 | 1,906 | 2 | — | — | 895 | 2,809 |
| 1907 | 27 | 4,505 | 4 | — | — | 622 | 5,158 |
| 1908 | 13 | 6,615 | — | — | — | 481 | 7,109 |
| 1909 | 51 | 4,608 | — | — | — | 581 | 5,240 |
| 1910 | 2 | 1,419 | — | — | — | 971 | 2,392 |
| 1911 | — | 1,010 | — | — | — | 761 | 1,771 |
| 1912 | — | 2,646 | 21 | — | — | 441 | 3,108 |
| 1913 | 1 | 2,997 | 5 | — | — | 600 | 3,603 |
| 1914 | — | 392 | 156 | — | — | 176 | 724 |
| 1915 | 7 | 146 | 182 | 2 | — | 150 | 487 |
| 1916 | 3 | 66 | 314 | 3 | — | 229 | 615 |
| 1917 | 4 | 109 | 231 | — | — | 136 | 480 |
| 1918 | — | 11 | — | — | — | 210 | 221 |
| 1919 | — | 2 | — | — | — | 133 | 135 |
| 1920 | — | 1,384 | 75 | — | — | 250 | 1,709 |
| 1921 | — | 941 | — | — | — | 116 | 1,057 |
| 1922 | — | 2,643 | — | — | — | 158 | 2,801 |
| 1923 | 1 | 5,135 | — | 98 | — | 253 | 5,487 |
| 1924 | — | 2,258 | 136 | 217 | — | 1,084 | 3,695 |

[a] Established 1st January, 1958; figures were previously included in Cloncurry district. Figures from 1931 to 1949 represent lead content of lead bullion produced from Mt. Isa and lead content of lead cons. from other producers. From 1950 figures represent lead content of lead and zinc concentrates produced. [b] Includes production from the following districts and localities: Bowen, Etheridge, Charters Towers, Stanthorpe, Brisbane, Gladstone, Gayndah, Gympie, Mt. Morgan, Mackay, Kangaroo Hills, Glenbar, Mount Coolon, Clermont, Oaks.

LEAD PRODUCTION—QUEENSLAND—*continued*

| Year | Ravenswood District | Chillagoe-Herberton District | Burketown District | Mt. Isa District[a] | | Miscellaneous[b] | Total |
|---|---|---|---|---|---|---|---|
| | | | | Lead in lead cons. etc. | Lead in zinc cons. | | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1925 | — | 3,752 | 179 | 330 | — | 974 | 5,235 |
| 1926 | — | 2,966 | 170 | 76 | — | 523 | 3,735 |
| 1927 | — | 482 | 235 | 19 | — | 178 | 914 |
| 1928 | — | — | — | — | — | 42 | 42 |
| 1929 | — | 303 | — | — | — | 86 | 389 |
| 1930 | 1 | 123 | — | 30 | — | 77 | 231 |
| 1931 | — | 25 | — | 17,128 | n.a. | 31 | 17,184 |
| 1932 | 1 | 40 | — | 47,633 | n.a. | 42 | 47,716 |
| 1933 | — | 47 | — | 45,038 | n.a. | 65 | 45,150 |
| 1934 | — | 15 | — | 42,437 | n.a. | 10 | 42,462 |
| 1935 | — | 6 | — | 32,900 | n.a. | 48 | 32,954 |
| 1936 | — | 1 | — | 35,728 | n.a. | 34 | 35,763 |
| 1937 | — | 10 | — | 38,121 | n.a. | 343 | 38,474 |
| 1938 | 3 | 6 | — | 41,147 | n.a. | 40 | 41,196 |
| 1939 | — | 2 | — | 45,266 | n.a. | 24 | 45,292 |
| 1940 | — | — | — | 48,118 | n.a. | — | 48,118 |
| 1941 | — | — | — | 43,273 | n.a. | — | 43,273 |
| 1942 | — | — | — | 33,512 | n.a. | — | 33,512 |
| 1943 | — | — | — | 8,579 | n.a. | — | 8,579 |
| 1944 | — | — | — | — | n.a. | — | — |
| 1945 | — | — | — | — | n.a. | — | — |
| 1946 | — | 5 | — | 12,737 | n.a. | 13 | 12,755 |
| 1947 | — | 13 | — | 29,437 | n.a. | 140 | 29,590 |
| 1948 | — | 3 | 91 | 30,484 | n.a. | 201 | 30,779 |
| 1949 | — | — | 95 | 37,507 | n.a. | 95 | 37,697 |
| 1950 | — | 3 | 46 | 38,732 | 862 | 9 | 39,652 |
| 1951 | — | 14 | 135 | 33,050 | 812 | 44 | 34,055 |
| 1952 | 11 | — | 238 | 40,414 | 931 | 129 | 41,723 |
| 1953 | 8 | — | 244 | 36,632 | 816 | 128 | 37,828 |
| 1954 | — | — | 89 | 41,270 | 767 | 65 | 42,191 |
| 1955 | — | — | 274 | 47,837 | 604 | 99 | 48,814 |
| 1956 | — | — | 585 | 41,871 | 516 | 128 | 43,100 |
| 1957 | — | — | 524 | 50,111 | 584 | 50 | 51,269 |
| 1958 | — | — | 455 | 64,696 | 635 | 13 | 65,799 |
| 1959 | — | — | 376 | 53,630 | 393 | 16 | 54,415 |
| 1960 | — | — | 466 | 56,151 | 851 | 50 | 57,518 |
| 1961 | — | — | 250 | 44,042 | 963 | 25 | 45,280 |
| 1962 | — | — | — | 61,084 | 1,553 | 32 | 62,669 |
| 1963 | — | — | — | 65,594 | 1,117 | — | 66,711 |
| 1964 | — | — | — | 61,013 | 914 | — | 61,927 |
| Total | 7,601 | 62,966 | 6,036 | 1,325,947 | 12,318 | 14,380 | 1,429,248 |

[a] Established 1st January, 1958; figures were previously included in Cloncurry district. Figures from 1931 to 1949 represent lead content of lead bullion produced from Mt. Isa and lead content of lead cons. from other producers. From 1950 figures represent lead content of lead and zinc concentrates produced. [b] Includes production from the following districts and localities: Bowen, Etheridge, Charters Towers, Stanthorpe, Brisbane, Gladstone, Gayndah, Gympie, Mt. Morgan, Mackay, Kangaroo Hills, Glenbar, Mount Coolon, Clermont, Oaks.

## LEAD PRODUCTION—NEW SOUTH WALES
(Lead content of concentrates)

| Year | Broken Hill[a] | | Captain's Flat[b] | | Yerranderie | Howell | Miscellaneous[c] | Total[d] |
|---|---|---|---|---|---|---|---|---|
| | Lead content of lead concentrates | Lead content of zinc concentrates | Lead content of lead concentrates | Lead content of zinc concentrates | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| Prior to 1903 | n.a. | — | 681 | — | 492 | — | n.a. | [e]1,716,000 |
| 1903 | 121,456 | n.a. | — | — | 218 | 325 | — | 121,999 |
| 1904 | 165,097 | n.a. | — | — | 448 | — | — | 165,545 |
| 1905 | 161,625 | n.a. | — | — | 451 | — | 150 | 162,226 |
| 1906 | 136,520 | n.a. | — | — | 439 | 531 | 1,118 | 138,608 |
| 1907 | 188,450 | n.a. | — | — | 1,005 | 1,638 | 607 | 191,700 |
| 1908 | 169,875 | n.a. | — | — | 1,892 | 1,105 | — | 172,872 |
| 1909 | 152,482 | n.a. | — | — | 1,654 | — | 992 | 155,128 |
| 1910 | 150,348 | 32,355 | — | — | 1,893 | [e]649 | 3,386 | 188,631 |
| 1911 | 178,600 | 24,281 | — | — | 1,674 | [e]863 | 1,104 | 206,522 |
| 1912 | 190,595 | 32,545 | — | — | 1,906 | 1,646 | 3,047 | 229,739 |
| 1913 | 204,422 | 31,687 | — | — | 1,458 | — | 2,537 | 240,104 |
| 1914 | 165,803 | 23,579 | — | — | 1,269 | — | 644 | 191,295 |
| 1915 | 137,811 | 15,305 | — | — | 1,302 | 15 | 828 | 155,261 |
| 1916 | 123,457 | 13,500 | — | — | 585 | 15 | 1,008 | 138,565 |
| 1917 | 133,480 | 19,831 | — | — | 1,054 | 18 | 127 | 154,510 |
| 1918 | 162,882 | 22,788 | — | — | 883 | — | 44 | 186,597 |
| 1919 | 52,617 | 8,635 | — | — | 861 | 13 | 374 | 62,500 |
| 1920 | 5,298 | 1,420 | — | — | 740 | 9 | 197 | 7,664 |
| 1921 | 56,194 | 20,560 | — | — | 552 | — | 11 | 77,317 |
| 1922 | 113,250 | 26,492 | — | — | 1,035 | 5 | 112 | 140,894 |
| 1923 | 129,992 | 20,799 | — | — | 1,662 | — | 61 | 152,514 |
| 1924 | 123,716 | 14,610 | — | — | 1,213 | — | 54 | 139,593 |
| 1925 | 154,173 | 17,789 | — | — | 317 | — | 43 | 172,322 |
| 1926 | 151,238 | 17,607 | — | — | 419 | — | 12 | 169,276 |
| 1927 | 170,785 | 17,520 | — | — | 530 | — | 11 | 188,846 |
| 1928 | 159,886 | 10,069 | — | — | 589 | — | — | 170,544 |
| 1929 | 176,790 | 8,100 | — | — | 216 | — | 14 | 185,120 |
| 1930 | 184,285 | 5,237 | — | — | 187 | — | 44 | 189,753 |
| 1931 | 126,722 | 2,339 | — | — | — | — | — | 129,061 |
| 1932 | 154,978 | 3,781 | — | — | — | — | — | 158,759 |
| 1933 | 169,245 | 3,781 | — | — | — | — | — | 173,026 |
| 1934 | 180,475 | 3,728 | — | — | 31 | — | — | 184,234 |
| 1935 | 182,667 | 3,884 | — | — | 139 | — | — | 186,690 |
| 1936 | 182,459 | 3,513 | — | — | 106 | — | 84 | 186,162 |

[a] Figures prior to 1903 are not available, from 1903 to 1909 are approximate only and obtained by subtraction, from 1910 to 1949 are taken from statistics published by the Australian Mines and Metals Association, from 1950 are true record of mine production. [b] Figures from 1939 to 1949 are taken from statistics published by the Australian Mines and Metals Association, from 1950 are true record of mine production. [c] Includes small quantities produced from the following districts, and localities: Cobar, Burrowa, Condobolin, Mineral Hill, Bobadah, Cootamundra, Lewis Ponds, Tuena, Sunny Corner, Carboona. [d] Figures prior to 1903 are estimated, from 1903 to 1909 are taken from Annual Reports of Mines Department. These are based on returns from Customs Department.

LEAD PRODUCTION—NEW SOUTH WALES—*continued*
(Lead content of concentrates)

| Year | Broken Hill[a] | | Captain's Flat[b] | | Yerranderie | Howell | Miscellaneous[c] | Total[d] |
|---|---|---|---|---|---|---|---|---|
| | Lead content of lead concentrates | Lead content of zinc concentrates | Lead content of lead concentrates | Lead content of zinc concentrates | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1937 | 192,492 | 3,860 | — | — | 127 | — | 3 | 196,482 |
| 1938 | 216,914 | 4,444 | — | — | 49 | — | — | 221,407 |
| 1939 | 210,755 | 4,443 | 7,384 | 535 | — | — | — | 223,117 |
| 1940 | 209,131 | 5,289 | 11,368 | 694 | — | — | — | 226,482 |
| 1941 | 219,180 | 4,092 | 11,639 | 528 | — | — | — | 235,439 |
| 1942 | 200,551 | 3,414 | 13,312 | 583 | — | — | — | 217,860 |
| 1943 | 170,476 | 2,927 | 13,617 | 618 | — | — | — | 187,638 |
| 1944 | 165,630 | 2,715 | 10,458 | 583 | — | — | — | 179,386 |
| 1945 | 146,404 | 2,487 | 6,218 | 428 | — | — | — | 155,537 |
| 1946 | 149,852 | 2,555 | 8,219 | 528 | 28 | — | — | 161,182 |
| 1947 | 145,270 | 2,386 | 6,868 | 454 | 35 | — | — | 155,013 |
| 1948 | 162,173 | 2,472 | 5,003 | 305 | 43 | — | — | 169,996 |
| 1949 | 157,924 | 2,721 | 2,592 | 194 | 22 | — | 100 | 163,553 |
| 1950 | 163,848 | 2,517 | 8,196 | 637 | 18 | — | 359 | 175,575 |
| 1951 | 157,531 | 2,118 | 8,032 | 658 | 34 | — | 189 | 168,562 |
| 1952 | 162,244 | 2,239 | 8,087 | 730 | 9 | — | 124 | 173,433 |
| 1953 | 205,398 | 3,082 | 8,419 | 610 | 8 | — | 57 | 217,574 |
| 1954 | 222,734 | 3,457 | 3,704 | 281 | 5 | — | 211 | 230,392 |
| 1955 | 222,016 | 4,085 | 7,748 | 535 | — | 275 | 195 | 234,854 |
| 1956 | 222,518 | 4,278 | 9,975 | 682 | — | [e]750 | [e]116 | 238,319 |
| 1957 | 251,483 | 4,578 | 9,309 | 720 | — | 838 | — | 266,928 |
| 1958 | 231,185 | 3,807 | 11,065 | 839 | — | — | — | 246,896 |
| 1959 | 233,103 | 3,272 | 9,253 | 821 | — | — | — | 246,449 |
| 1960 | 221,890 | 3,462 | 9,812 | 704 | — | — | — | 235,868 |
| 1961 | 199,331 | 3,325 | 8,385 | 596 | — | — | 42 | 211,679 |
| 1962 | 287,641 | 3,120 | 1,500 | 120 | — | — | — | 292,381 |
| 1963 | 324,641 | 3,821 | — | — | — | — | — | 328,462 |
| 1964 | 293,124 | 3,206 | — | — | — | — | 624 | 296,954 |
| Total 1903–64 | 10,763,112 | 499,907 | 200,163 | 13,383 | 27,106 | 8,695 | 18,629 | 11,530,995 |
| Estimated total 1884–1964 | | | | | | | | 13,246,995 |

[a] Figures prior to 1903 are not available, from 1903 to 1909 are approximate only and obtained by subtraction, from 1910 to 1949 are taken from statistics published by the Australian Mines and Metals Association, from 1950 are true record of mine production. [b] Figures from 1939 to 1949 are taken from statistics published by the Australian Mines and Metals Association, from 1950 are true record of mine production. [c] Includes small quantities produced from the following districts and localities: Cobar, Burrowa, Condobolin, Mineral Hill, Bobadah, Cootamundra, Lewis Ponds, Tuena, Sunny Corner, Carboona. [d] Figures prior to 1903 are estimated, from 1903 to 1909 are taken from Annual Reports of Mines Department. These are based on returns from Customs Department.

LEAD PRODUCTION—TASMANIA
(Lead content of ores, concentrates, etc.)

| Year | Zeehan Dundas Area | Read-Rosebery[b] | | Mount Farrell | Miscellaneous[c] | Total[d] |
|---|---|---|---|---|---|---|
| | | Lead content of lead concentrate | Lead content of zinc concentrate | | | |
| | tons | tons | tons | tons | tons | tons |
| 1888 | 250 | — | — | — | — | 250 |
| 1889 | 249 | — | — | — | — | 249 |
| 1890 | 1,232 | — | — | — | — | 1,232 |
| 1891 | 2,886 | — | — | — | — | 2,886 |
| 1892 | 5,596 | — | — | — | — | 5,596 |
| 1893 | 8,581 | — | — | — | — | 8,581 |
| 1894 | 12,638 | — | — | — | — | 12,638 |
| 1895 | 10,788 | — | — | — | — | 10,788 |
| 1896 | 12,699 | — | — | — | 1 | 12,700 |
| 1897 | 11,018 | — | — | — | — | 11,018 |
| 1898 | 9,052 | — | — | — | 64 | 9,116 |
| 1899 | [a]14,698 | 153 | — | — | 360 | 15,211 |
| 1900 | [a]12,720 | 64 | — | 172 | 278 | 13,234 |
| 1901 | [a]10,180 | 659 | — | 95 | 8 | 10,942 |
| 1902 | [a]12,324 | 931 | — | 508 | 1,855 | 15,618 |
| 1903 | [a]7,426 | 1,073 | — | 515 | 2,472 | 11,486 |
| 1904 | [a]9,327 | 1,565 | — | 1,163 | 2,335 | 14,390 |
| 1905 | [a]19,416 | 850 | — | 1,343 | 2,648 | 24,257 |
| 1906 | [a]17,935 | 1,437 | — | 2,054 | 1,590 | 23,016 |
| 1907 | [a]15,828 | 2,349 | — | 2,249 | 1,596 | 22,022 |
| 1908 | [a]9,797 | 1,622 | — | 2,502 | 1,114 | 15,035 |
| 1909 | [a]19,675 | 1,853 | — | 2,019 | 1,550 | 25,097 |
| 1910 | [a]4,636 | 597 | — | 1,491 | 1,459 | 8,183 |
| 1911 | [a]7,660 | 1,782 | — | 1,537 | 1,186 | 12,165 |
| 1912 | [a]12,536 | 2,843 | — | 1,324 | 1,365 | 18,068 |
| 1913 | [a]1,775 | 3,098 | — | 1,471 | 1,538 | 7,882 |
| 1914 | 3,136 | 24 | — | 1,321 | 982 | 5,463 |
| 1915 | 2,228 | 20 | — | 1,361 | 1,057 | 4,666 |
| 1916 | 1,963 | — | — | 1,756 | 1,255 | 4,974 |
| 1917 | 1,781 | — | — | 1,021 | 1,775 | 4,577 |
| 1918 | 1,345 | — | — | 1,089 | 1,041 | 3,475 |
| 1919 | 914 | 81 | — | 447 | 915 | 2,357 |
| 1920 | 1,241 | — | — | 1,349 | 1,266 | 3,856 |
| 1921 | 698 | — | — | 377 | 360 | 1,435 |
| 1922 | 1,405 | — | — | 2,022 | 1,859 | 4,926 |
| 1923 | 1,188 | — | — | 1,927 | 1,669 | 4,784 |
| 1924 | 554 | 700 | — | 1,933 | 1,372 | 4,559 |
| 1925 | 448 | 1,679 | — | 2,117 | 1,282 | 5,526 |
| 1926 | 507 | 2,185 | — | 1,789 | 1,412 | 5,893 |
| 1927 | 457 | 2,054 | — | 1,870 | 1,202 | 5,583 |
| 1928 | 330 | 2,136 | — | 1,449 | 872 | 4,787 |

[a] Obtained by difference. [b] Australian Mines and Metals Association figures 1937–49. Lead content of copper-lead concentrates included in lead content of lead concentrates. [c] Includes production from Mount Lyell, Magnet, Devon mine, Round Hill and Heaslewood district. [d] Lead content of production to 1913 not definitely known and figures approximate only.

LEAD PRODUCTION—TASMANIA—*continued*
(Lead content of ores, concentrates, etc.)

| Year | Zeehan-Dundas Area | Read-Rosebery[b] | | Mount Farrell | Miscellaneous[c] | Total[d] |
|---|---|---|---|---|---|---|
| | | Lead content of lead concentrate | Lead content of zinc concentrate | | | |
| | tons | tons | tons | tons | tons | tons |
| 1929 | 203 | 2,247 | — | 2,279 | 1,254 | 5,983 |
| 1930 | 223 | 339 | — | 2,748 | 928 | 4,238 |
| 1931 | 176 | — | — | 1,655 | 358 | 2,189 |
| 1932 | 199 | — | — | 1,782 | 713 | 2,694 |
| 1933 | 89 | — | — | 1,589 | 966 | 2,644 |
| 1934 | 69 | — | — | 1,094 | 344 | 1,507 |
| 1935 | 34 | — | — | 1,201 | 253 | 1,488 |
| 1936 | 42 | 5,744 | n.a. | 1,634 | 163 | 7,563 |
| 1937 | 98 | 6,226 | 1,775 | 1,519 | 7 | 9,625 |
| 1938 | 35 | 7,228 | 1,956 | 1,751 | 290 | 11,260 |
| 1939 | 2 | 7,080 | 2,024 | 2,366 | 138 | 11,610 |
| 1940 | 101 | 7,814 | 2,065 | 3,997 | 170 | 14,147 |
| 1941 | 66 | 7,702 | 1,738 | 2,856 | 1 | 12,363 |
| 1942 | — | 6,644 | 1,882 | 1,799 | — | 10,325 |
| 1943 | — | 5,891 | 1,621 | 1,659 | — | 9,171 |
| 1944 | — | 6,632 | 1,632 | 1,188 | — | 9,452 |
| 1945 | — | 4,680 | 952 | 1,161 | — | 6,793 |
| 1946 | — | 5,300 | 949 | 1,167 | — | 7,416 |
| 1947 | 63 | 6,196 | 794 | 1,222 | — | 8,275 |
| 1948 | 139 | 6,112 | 889 | 765 | — | 7,905 |
| 1949 | 188 | 6,589 | 984 | 747 | — | 8,508 |
| 1950 | 146 | 7,351 | 1,228 | 894 | 7 | 9,626 |
| 1951 | 203 | 6,103 | 1,080 | 863 | 1 | 8,250 |
| 1952 | 227 | 6,272 | 928 | 1,113 | — | 8,540 |
| 1953 | 486 | 7,136 | 1,284 | 1,132 | — | 10,038 |
| 1954 | 1,255 | 7,837 | 1,604 | 837 | — | 11,533 |
| 1955 | 2,261 | 7,064 | 1,491 | 451 | — | 11,267 |
| 1956 | 1,940 | 8,234 | 1,637 | 406 | — | 12,217 |
| 1957 | 2,163 | 8,010 | 1,683 | 589 | — | 12,445 |
| 1958 | 2,458 | 8,867 | 1,874 | 586 | — | 13,785 |
| 1959 | 3,142 | 8,468 | 1,776 | 653 | — | 14,039 |
| 1960 | 2,055 | 8,564 | 1,774 | 645 | — | 13,038 |
| 1961 | — | 9,382 | 2,290 | 581 | — | 12,253 |
| 1962 | — | 11,668 | 2,470 | 616 | — | 14,754 |
| 1963 | — | 11,971 | 2,491 | 520 | — | 14,982 |
| 1964 | — | 12,110 | 2,827 | 411 | — | 15,348 |
| Total | 287,180 | 251,216 | 45,698 | 86,747 | 44,951 | 715,792 |

[a] Obtained by difference. [b] Australian Mines and Metals Association figures 1937–49. Lead content of copper-lead concentrates included in lead content of lead concentrates. [c] Includes production from Mount Lyell, Magnet, Devon mine, Round Hill and Heaslewood district. [d] Lead content of production to 1913 not definitely known and figures approximate only.

## LEAD PRODUCTION—WESTERN AUSTRALIA
(Lead content of ores, concentrates, etc.)

| Year | Northampton Mineral Field | Ashburton Goldfield | Miscellaneous[a] | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| imated | | | | |
| l to | | | | |
| of | | | | |
| 8 | 16,800 | — | — | 16,800 |
| 9 | 106 | — | — | 106 |
| 0 | | | | |
| 1 | — | 9 | — | 9 |
| 2 | — | 19 | — | 19 |
| 3–06 | — | — | — | — |
| 7 | 6 | — | — | 6 |
| 8 | 42 | 436 | — | 478 |
| 9 | — | 264 | — | 264 |
| 0 | 137 | — | — | 137 |
| 1 | 1,264 | — | — | 1,264 |
| 2 | 1,331 | — | — | 1,331 |
| 3 | 2,741 | 78 | — | 2,819 |
| 4 | 2,074 | 465 | — | 2,539 |
| 5 | 1,520 | 197 | — | 1,717 |
| 6 | 3,608 | 43 | 22 | 3,673 |
| 7 | 4,930 | — | 25 | 4,955 |
| 8 | 6,509 | 149 | — | 6,658 |
| 9 | 1,056 | 141 | — | 1,197 |
| 0 | 5,073 | — | — | 5,073 |
| 1 | 1,197 | — | — | 1,197 |
| 2 | 3,041 | — | — | 3,041 |
| 3 | 2,237 | — | — | 2,237 |
| 4 | 3,027 | — | — | 3,027 |
| 5 | 3,403 | 18 | 36 | 3,457 |
| 6 | 2,426 | — | 41 | 2,467 |
| 7 | 759 | 36 | 25 | 820 |
| 8 | 21 | — | 13 | 34 |
| 9 | 345 | — | — | 345 |
| 0 | 36 | — | — | 36 |
| 1–32 | — | — | — | — |

| Year | Northampton Mineral Field | Ashburton Goldfield | Miscellaneous[a] | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1933 | 2 | — | — | 2 |
| 1934 | 3 | — | — | 3 |
| 1935 | — | — | — | — |
| 1936 | 121 | — | — | 121 |
| 1937 | 347 | — | — | 347 |
| 1938 | 41 | — | — | 41 |
| 1939–42 | — | — | — | — |
| 1943 | 110 | — | — | 110 |
| 1944–45 | — | — | — | — |
| 1946 | 28 | — | — | 28 |
| 1947 | 4 | — | 13 | 17 |
| 1948 | 1,045 | 84 | 279 | 1,408 |
| 1949 | 1,308 | 470 | 194 | 1,972 |
| 1950 | 745 | 243 | 314 | 1,302 |
| 1951 | 1,186 | 479 | 248 | 1,913 |
| 1952 | 4,389 | 687 | 419 | 5,495 |
| 1953 | 3,668 | 504 | 528 | 4,700 |
| 1954 | 1,003 | 293 | 201 | 1,497 |
| 1955 | 762 | 12 | 233 | 1,007 |
| 1956 | 4,955 | 117 | 757 | 5,829 |
| 1957 | 2,505 | 158 | 424 | 3,087 |
| 1958 | 1,744 | 85 | 24 | 1,853 |
| 1959 | 1,080 | 29 | 273 | 1,382 |
| 1960 | 1,736 | — | 3 | 1,739 |
| 1961 | 433 | — | — | 433 |
| 1962 | 306 | — | — | 306 |
| 1963 | 136 | — | — | 136 |
| 1964 | — | — | 620 | 620 |
| Total | 91,346 | 5,016 | 4,692 | 101,054 |

[a] Includes small quantities produced from the following goldfields: Pilbara, Kimberley, Peak Hill and Gascoyne.

Page 252 is blank.

# LIMESTONE

Statistics relating to limestone production are incomplete and no adequate review of the limestone industry for the years before 1950 is possible.

Even since 1950, coverage is incomplete, since production of coral dredged from Moreton Bay, Queensland and used for cement manufacture at Darra has not been recorded by the Queensland State Mines Department. The quantity of coral dredged and used thus has had to be estimated.

In Western Australia limestone production is recorded only from holdings covered by the Mining Act. Total production has had to be estimated.

In New South Wales, the records before 1950 show the amount of cement and lime produced, but not the limestone quarried for this purpose; the only production of limestone recorded before 1950 was for fluxing purposes.

Limestone Production—Australia .. .. .. .. .. .. .. 254

Limestone Production—Queensland .. .. .. .. .. 255–256

Limestone Production—New South Wales .. .. .. .. .. 256

Limestone Production—Victoria .. .. .. .. .. .. .. 257

Limestone Production—South Australia .. .. .. .. .. .. 258

## LIMESTONE PRODUCTION—AUSTRALIA

(Including Coral and Shell)

| Year | Queensland | | New South Wales | | Victoria | | Tasmania | | South Australia | | Western Australia | | Northern Territory | Total | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cement | Other | Cement | Other | Cement | Other | Cement | Other | Cement | Other | Cement | Other | | Cement | Other | |
| | '000 tons | | '000 tons | | '000 tons | | '000 tons | | '000 tons | | '000 tons | | '000 tons | '000 tons | | '000 tons |
| 1950 | n.a. | 47 | 775 | 188 | 356 | 93 | [e]120 | 32 | [e]134 | 569 | n.a. | n.a. | — | [i]1,385 | [i]929 | [i]2,314 |
| 1951 | [e]150 | 49 | 855 | 257 | 339 | 80 | 113 | 41 | [e]154 | [e]633 | [e]105 | [e]40 | — | 1,716 | 1,100 | 2,816 |
| 1952 | [e]180 | 52 | 946 | 233 | 381 | 100 | 130 | 41 | 152 | 685 | [e]120 | [e]40 | — | 1,909 | 1,151 | 3,060 |
| 1953 | [e]225 | 56 | 1,008 | 402 | 488 | 87 | 144 | 38 | 233 | 620 | [e]125 | [e]45 | † | 2,223 | 1,248 | 3,471 |
| 1954 | [e]350 | 74 | 1,053 | 491 | 596 | 99 | 152 | 44 | 314 | 637 | [e]150 | [e]50 | † | 2,615 | 1,395 | 4,010 |
| 1955 | [e]380 | 61 | 1,149 | 541 | 614 | 106 | 157 | 49 | 351 | 636 | [e]230 | [e]50 | † | 2,881 | 1,443 | 4,324 |
| 1956 | [e]400 | 58 | 1,178 | 522 | 719 | 94 | 127 | 52 | 379 | 697 | [e]300 | [e]56 | — | 3,103 | 1,479 | 4,582 |
| 1957 | [e]440 | 93 | 1,373 | 524 | 738 | 108 | 154 | 52 | 401 | 734 | [e]250 | [e]70 | — | 3,356 | 1,581 | 4,937 |
| 1958 | [e]525 | 125 | 1,402 | 659 | 760 | 99 | 179 | 56 | 370 | 850 | [e]215 | [e]85 | — | 3,451 | 1,874 | 5,325 |
| 1959 | [e]510 | 84 | 1,353 | 697 | 1,018 | 102 | 177 | 59 | 431 | 586 | [e]220 | [e]80 | — | 3,709 | 1,608 | 5,317 |
| 1960 | [e]440 | 83 | 1,518 | 882 | 1,074 | 83 | 153 | 62 | 533 | 531 | [e]230 | [e]80 | — | 3,948 | 1,721 | 5,669 |
| 1961 | [e]540 | 95 | 1,525 | 1,051 | 1,133 | 110 | 132 | 71 | 536 | 569 | 267 | 117 | — | 4,133 | 2,013 | 6,146 |
| 1962 | 600 | 95 | 1,475 | 957 | 1,095 | 119 | 233 | 86 | 580 | 820 | 257 | 98 | — | 4,240 | 2,175 | 6,415 |
| 1963 | 640 | 60 | 1,501 | 1,023 | 1,112 | 116 | 272 | 73 | 595 | 979 | 280 | 70 | — | 4,400 | 2,321 | 6,721 |
| 1964 | 672 | 118 | 1,801 | 899 | 1,272 | 121 | 261 | 91 | 714 | 828 | 380 | 75 | — | 5,100 | 2,140 | 7,240 |

LIMESTONE PRODUCTION—QUEENSLAND
(Including Lime not including Coral and Shell)

| Year | Rockhampton District | Stanthorpe District | Cloncurry District | Chillagoe District | Townsville District | Miscellaneous[a] | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1900 | — | n.a. | — | — | — | n.a. | 3,664 |
| 1901 | — | 1,417 | — | — | — | 5,097 | 6,514 |
| 1902 | — | 176 | — | — | — | 4,567 | 4,743 |
| 1903 | 264 | 699 | — | 3,698 | — | 8,951 | 13,612 |
| 1904 | 361 | 1,121 | — | 4,017 | — | 13,274 | 18,773 |
| 1905 | 290 | 1,288 | — | 10,678 | — | 12,801 | 25,057 |
| 1906 | 34,600 | 1,357 | — | 12,097 | — | 13,802 | 61,856 |
| 1907 | 68,266 | 1,467 | — | 14,927 | — | 5,318 | 89,978 |
| 1908 | 113,225 | 1,867 | — | 18,777 | — | 12,437 | 146,306 |
| 1909 | 122,556 | 973 | — | 14,550 | — | 4,917 | 142,996 |
| 1910 | 120,426 | 1,906 | — | 15,557 | — | 6,470 | 144,359 |
| 1911 | 92,407 | 1,518 | 3,269 | 11,870 | — | 5,611 | 114,675 |
| 1912 | 76,610 | 401 | 1,974 | 12,929 | — | 5,261 | 97,175 |
| 1913 | 135,857 | 1,098 | 5,573 | 9,100 | — | 9,537 | 161,165 |
| 1914 | 95,524 | 1,250 | 13,620 | 1,224 | — | 8,187 | 119,805 |
| 1915 | 120,264 | 806 | 22,309 | 2,500 | — | 4,038 | 149,917 |
| 1916 | 100,128 | — | 34,578 | 805 | — | 6,507 | 142,018 |
| 1917 | 87,297 | 696 | 40,193 | 973 | — | 6,644 | 135,703 |
| 1918 | 60,012 | 955 | 31,370 | 738 | — | 4,823 | 97,898 |
| 1919 | 59,223 | 16,175 | 6,573 | 2,355 | — | 2,110 | 86,436 |
| 1920 | 60,466 | 15,886 | 22,252 | 3,879 | — | 2,165 | 105,068 |
| 1921 | 15,065 | 34,553 | — | 10,991 | 671 | 1,995 | 63,275 |
| 1922 | 39,981 | 31,868 | — | 2,565 | 742 | 2,030 | 78,186 |
| 1923 | 49,794 | 34,183 | — | 8,580 | 81 | 2,520 | 95,158 |
| 1924 | 37,571 | 49,684 | — | 4,987 | 1,909 | 2,748 | 96,899 |
| 1925 | 14,956 | 55,743 | — | 6,782 | 2,883 | 2,207 | 82,571 |
| 1926 | 4,130 | 57,111 | — | 6,484 | 1,924 | 2,777 | 72,426 |
| 1927 | 8,864 | 71,778 | — | 1,282 | 635 | 2,402 | 84,961 |
| 1928 | 410 | 67,040 | — | 1,548 | 974 | 2,799 | 72,771 |
| 1929 | 833 | 58,294 | — | 3,342 | 1,410 | 3,340 | 67,219 |
| 1930 | 20 | 46,115 | — | 8,873 | 1,947 | 7,548 | 64,503 |
| 1931 | — | 19,671 | 5,287 | 9,767 | 2,010 | 3,073 | 39,808 |
| 1932 | 450 | 33,296 | 10,893 | 13,429 | 3,348 | 1,605 | 63,618 |
| 1933 | — | 45,630 | 13,417 | 11,413 | 4,067 | 2,708 | 77,235 |
| 1934 | — | 58,704 | 13,716 | 9,138 | 3,863 | 3,038 | 88,459 |
| 1935 | — | 60,015 | 11,520 | 2,761 | 1,459 | 6,127 | 81,882 |
| 1936 | 600 | 51,608 | 13,008 | 4,604 | 2,413 | 4,567 | 76,800 |
| 1937 | 7,789 | 30,470 | 15,029 | 6,367 | 3,972 | 4,772 | 68,399 |
| 1938 | 10,798 | 2,729 | 12,570 | 6,276 | 4,672 | 3,585 | 40,630 |
| 1939 | 8,907 | 2,663 | 13,502 | 9,740 | 5,351 | 2,480 | 42,643 |
| 1940 | 15,382 | 3,021 | 17,113 | 7,860 | 3,157 | 1,020 | 47,553 |
| 1941 | 9,666 | 3,280 | 15,100 | 6,245 | 3,666 | 264 | 38,221 |
| 1942 | 8,312 | 3,401 | 11,194 | 6,230 | 36 | 391 | 29,564 |
| 1943 | 6,812 | 2,896 | 2,664 | 3,950 | 11 | 208 | 16,541 |
| 1944 | 7,571 | 15,021 | — | 3,390 | 42 | 281 | 26,305 |
| 1945 | — | 17,588 | — | 5,009 | 1,544 | 7,417 | 31,558 |
| 1946 | 6,155 | 4,756 | — | 4,724 | 4,945 | 273 | 20,854 |
| 1947 | 6,317 | 5,672 | 13,904 | 3,448 | 3,470 | 1,222 | 33,033 |
| 1948 | 7,975 | 6,407 | 10,697 | 4,896 | 3,640 | 4,039 | 37,654 |

[a] Includes the following districts: Gladstone, Mt. Perry, Gympie, Kilkivan, Charters Towers, Warwick and Star River.

LIMESTONE PRODUCTION—QUEENSLAND—*continued*
(Including Lime not including Coral and Shell)

| Year | Rockhampton District | Stanthorpe District | Cloncurry District | Chillagoe District | Townsville District | Miscellaneous[a] | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1949 | 9,662 | 5,019 | 18,526 | 4,864 | 5,227 | 4,430 | 47,728 |
| 1950 | 8,147 | 6,283 | 19,806 | 3,862 | 4,110 | 4,799 | 47,007 |
| 1951 | 8,860 | 6,880 | 20,384 | 4,562 | 4,734 | 6,425 | 51,845 |
| 1952 | 8,596 | 6,572 | 23,830 | 3,087 | 4,858 | 4,170 | 51,117 |
| 1953 | 9,049 | 7,546 | 21,560 | 3,300 | 8,131 | 5,654 | 55,240 |
| 1954 | 12,058 | 10,152 | 34,448 | 2,930 | 7,631 | 5,906 | 73,025 |
| 1955 | 12,039 | 10,850 | 23,473 | 2,389 | 64,823 | 7,298 | 120,872 |
| 1956 | 11,074 | 5,396 | 29,891 | 2,298 | 84,975 | 4,822 | 138,456 |
| 1957 | 15,169 | 17,905 | 44,409 | 2,001 | 103,004 | 920 | 183,408 |
| 1958 | 13,900 | 12,049 | 35,210 | 3,360 | 113,470 | 49,856 | 227,845 |
| 1959 | 6,283 | 12,868 | 20,502 | 2,555 | 92,644 | 33,660 | 168,512 |
| 1960 | 12,609 | 13,847 | 9,436 | 2,790 | 90,397 | 16,680 | 145,759 |
| 1961 | 11,209 | 13,630 | 16,357 | 3,107 | 90,658 | 31,328 | 166,289 |
| 1962 | 10,410 | 13,931 | 15,614 | 2,834 | 120,634 | 18,471 | 181,894 |
| 1963 | 21,386 | 9,300 | 22,410 | 3,268 | 127,913 | 25,717 | 209,994 |
| 1964 | 12,121 | 12,343 | 32,956 | 4,646 | 132,695 | 26,428 | 221,189 |

[a] Includes the following districts: Gladstone, Mt. Perry, Gympie, Kilkivan, Charters Towers' Warwick and Star River.

LIMESTONE PRODUCTION—NEW SOUTH WALES

| Year | Capertee Mining Division | Goulburn Mining Division | Rockley Mining Division | Rylstone Minging Division | Tamworth Mining Division | Others[a] | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1950 | 174,260 | 362,348 | 3,867 | 383,084 | 21,356 | 19,186 | 964,101 |
| 1951 | 171,194 | 438,902 | 3,075 | 393,604 | 31,547 | 22,630 | 1,060,952 |
| 1952 | 134,449 | 504,274 | 3,221 | 416,491 | 42,866 | 18,836 | 1,120,137 |
| 1953 | 180,053 | 684,775 | 4,756 | 455,604 | 7,404 | 18,929 | 1,351,521 |
| 1954 | 229,724 | 787,305 | 3,369 | 443,297 | 10,024 | 11,333 | 1,485,052 |
| 1955 | 206,091 | 962,449 | 2,971 | 464,225 | 8,229 | 5,043 | 1,649,008 |
| 1956 | 214,767 | 975,584 | 3,735 | 482,502 | 7,310 | 5,587 | 1,689,485 |
| 1957 | 323,002 | 1,009,431 | 4,981 | 542,315 | 5,866 | 5,967 | 1,891,562 |
| 1958 | 370,969 | 1,121,554 | 5,930 | 546,883 | 5,393 | 5,700 | 2,056,429 |
| 1959 | 354,643 | 1,087,133 | 6,504 | 590,150 | 5,662 | 6,161 | 2,050,253 |
| 1960 | 332,071 | 1,413,557 | 6,763 | 629,907 | 5,263 | 6,563 | 2,394,124 |
| 1961 | 343,848 | 1,568,844 | 4,156 | 640,061 | 5,828 | 6,495 | 2,569,232 |
| 1962 | 335,914 | 1,480,291 | 3,530 | 595,605 | 6,744 | 5,627 | 2,427,711 |
| 1963 | 300,520 | 1,377,434 | 6,515 | 626,188 | 7,233 | 9,204 | 2,327,094 |
| 1964 | 315,444 | 1,618,561 | 1,830 | 739,287 | 14,246 | 10,917 | 2,700,285 |

[a] Includes the following mining divisions: Boorowa, Kempsey, Molong, Mudgee, Parkes, Pt. Macquarie, Taralga, Taree, Tumut. Orange, Drake, Bathurst, Gloucester, Narrabri, Oberon and Tenterfield.

## LIMESTONE PRODUCTION—VICTORIA

| Year | Fyansford | Lilydale | Merriman's Creek Longford | Cobden and Curdies River | Traralgon Area | Miscellaneous[a] | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| Prior to 1928 | | | Figures not available | | | | |
| 1928 | 239,885 | 32,233 | 500 | 92 | 14,442 | 2,114 | 289,266 |
| 1929 | 274,049 | 22,081 | 200 | 5,186 | 9,950 | 2,234 | 313,700 |
| 1930 | 221,919 | 12,594 | 376 | 1,806 | 6,726 | — | 243,421 |
| 1931 | 72,263 | 13,632 | 157 | 1,350 | 4,156 | 800 | 92,358 |
| 1932 | 129,361 | 10,750 | 145 | 1,540 | 5,762 | 1,650 | 149,208 |
| 1933 | 127,600 | 18,704 | 106 | 710 | 5,358 | 1,361 | 153,839 |
| 1934 | 195,701 | 22,155 | 112 | 1,014 | 9,295 | 1,260 | 229,537 |
| 1935 | 95,392 | 23,899 | 122 | 744 | 10,590 | 1,590 | 132,337 |
| 1936 | 265,870 | 52,941 | 8,757 | 2,681 | 11,151 | 4,127 | 343,527 |
| 1937 | 289,577 | 38,811 | — | 925 | 8,441 | 1,463 | 339,217 |
| 1938 | 299,006 | 73,783 | — | 1,766 | 9,016 | 8,966 | 392,537 |
| 1939 | 304,354 | 72,890 | — | 13,050 | 7,502 | 5,732 | 403,528 |
| 1940 | 336,717 | 61,936 | — | 11,641 | 9,512 | 7,535 | 427,341 |
| 1941 | 362,305 | 45,560 | — | 7,100 | 11,864 | 5,227 | 432,056 |
| 1942 | 305,305 | 46,409 | — | 10,375 | 12,000 | 10,801 | 384,890 |
| 1943 | 288,006 | 46,509 | — | 11,459 | 9,592 | 14,580 | 370,146 |
| 1944 | 206,383 | 44,765 | — | 10,410 | 7,755 | 6,823 | 276,136 |
| 1945 | 201,753 | 39,626 | — | 11,705 | 3,579 | 12,177 | 268,840 |
| 1946 | 278,832 | 44,293 | — | 11,766 | 2,419 | 13,221 | 350,531 |
| 1947 | 329,899 | 45,189 | — | 13,308 | 1,752 | 14,992 | 405,140 |
| 1948 | 321,152 | 46,823 | — | 12,484 | 786 | 14,477 | 395,722 |
| 1949 | 329,707 | 45,704 | — | 11,505 | 1,744 | 14,057 | 402,717 |
| 1950 | 355,742 | 59,769 | — | 15,834 | 1,934 | 15,428 | 448,707 |
| 1951 | 339,090 | 52,136 | — | 15,269 | 1,421 | 11,624 | 419,540 |
| 1952 | 381,451 | 55,728 | — | 14,746 | 514 | 28,797 | 481,236 |
| 1953 | 485,583 | 53,579 | — | 20,301 | 2,826 | 13,498 | 575,787 |
| 1954 | 534,245 | 59,511 | 61,095 | 21,495 | 1,964 | 16,374 | 694,684 |
| 1955 | 540,134 | 57,349 | 66,702 | 22,539 | 9,664 | 17,840 | 714,228 |
| 1956 | 589,600 | 54,009 | 67,650 | 19,702 | 9,107 | 73,911 | 813,979 |
| 1957 | 632,592 | 50,923 | 91,385 | 27,030 | 3,109 | 41,309 | 846,348 |
| 1958 | 646,718 | 50,559 | 113,486 | 21,987 | 2,761 | 23,228 | 858,739 |
| 1959 | 845,631 | 48,307 | 171,887 | 24,553 | 3,628 | 25,674 | 1,119,680 |
| 1960 | 887,821 | 49,112 | 186,395 | 26,010 | 3,169 | 4,465 | 1,156,972 |
| 1961 | 912,173 | 46,697 | 223,442 | 26,557 | 1,700 | 32,585 | 1,243,154 |
| 1962 | 883,250 | 55,788 | 211,840 | 29,446 | 2,080 | 31,987 | 1,214,391 |
| 1963 | 916,020 | 59,657 | 195,796 | 20,087 | 2,516 | 37,145 | 1,231,221 |
| 1964 | 1,071,037 | 64,866 | 177,075 | 20,154 | 1,479 | 34,799 | 1,369,410 |

[a] Includes: Lara, Corio, Waurn Ponds, Buchan, Kawarren, Morwell, Darriman and Woodside, Coimadai, Port Fairy, Portland, Tanjil North.

LIMESTONE PRODUCTION—SOUTH AUSTRALIA

| Year | tons | Year | tons |
|---|---|---|---|
| 1904 | 43,440 | 1935 | 73,809 |
| | | 1936 | 101,041 |
| 1905 | 44,498 | 1937 | 126,196 |
| 1906 | 31,940 | 1938 | 92,683 |
| 1907 | 31,100 | 1939 | 121,608 |
| 1908 | 29,500 | | |
| 1909 | 13,765 | 1940 | 164,870 |
| | | 1941 | 231,322 |
| 1910 | 18,600 | 1942 | 268,354 |
| 1911 | 28,700 | 1943 | 315,879 |
| 1912 | 50,000 | 1944 | 460,749 |
| 1913 | 44,300 | | |
| 1914 | 54,054 | 1945 | 392,879 |
| | | 1946 | 462,920 |
| 1915 | 71,723 | 1947 | 514,178 |
| 1916 | 74,641 | 1948 | 650,645 |
| 1917 | 68,464 | 1949 | 536,866 |
| 1918 | 72,209 | | |
| 1919 | 45,398 | 1950 | 688,936 |
| | | 1951 | 771,157 |
| 1920 | 30,508 | 1952 | 836,819 |
| 1921 | 44,277 | 1953 | 853,148 |
| 1922 | 70,243 | 1954 | 950,202 |
| 1923 | 94,020 | | |
| 1924 | 109,298 | 1955 | 986,701 |
| | | 1956 | 1,076,322 |
| 1925 | 114,870 | 1957 | 1,134,633 |
| 1926 | 119,714 | 1958 | 1,220,377 |
| 1927 | 121,272 | 1959 | 1,017,195 |
| 1928 | 80,968 | | |
| 1929 | 81,053 | 1960 | 1,053,708 |
| | | 1961 | 1,105,268 |
| 1930 | 64,187 | 1962 | 1,400,135 |
| 1931 | 40,882 | 1963 | 1,574,102 |
| 1932 | 40,671 | 1964 | 1,541,510 |
| 1933 | 68,512 | | |
| 1934 | 70,981 | | |

# LITHIUM

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## LITHIUM MINERALS PRODUCTION—AUSTRALIA

| Year | Amblygonite | | | | | | | | Petalite | | Spodumene | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | New South Wales | | Western Australia | | Northern Territory | | Total | | Western Australia | | Western Australia | |
| | Ore | $Li_2O$ content | Ore | $Li_2O$ content | Ore | $Li_2O$ content | Ore | $Li_2O$ content | Ore | $Li_2O$ content | Ore | $Li_2O$ conten |
| | tons | units | tons | units | tons | units | tons | units | tons | units | tons | units |
| 1905 | — | — | — | — | 20 | 160 | 20 | 160 | — | — | — | — |
| 1906–09 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1910 | — | — | 3 | 10 | — | — | 3 | 10 | — | — | — | — |
| 1911–23 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1924 | — | — | — | — | 5 | 29 | 5 | 29 | — | — | — | — |
| 1925 | — | — | — | — | 39 | 227 | 39 | 227 | — | — | — | — |
| 1926–33 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1934 | 15 | 75 | — | — | — | — | 15 | 75 | — | — | — | — |
| 1935–42 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1943 | 8 | 43 | — | — | — | — | 8 | 43 | — | — | — | — |
| 1944–48 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1949 | — | — | — | — | — | — | — | — | 5 | 21 | — | — |
| 1950–53 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1954 | — | — | — | — | — | — | — | — | 15 | 62 | — | — |
| 1955 | — | — | — | — | — | — | — | — | — | — | 4 | 2 |
| 1956–57 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1958 | — | — | — | — | — | — | — | — | 68 | 285 | — | — |
| 1959 | — | — | — | — | — | — | — | — | 25 | 102 | — | — |
| 1960 | 15 | 100 | — | — | — | — | 15 | 100 | 1 | 4 | — | — |
| 1961 | 24 | 190 | — | — | — | — | 24 | 190 | 101 | 442 | 5 | 3 |
| 1962 | 28 | 230 | — | — | — | — | 28 | 230 | 84 | 359 | 24 | 15 |
| 1963 | 20 | 143 | — | — | — | — | 20 | 143 | 390 | 1,642 | 22 | 13 |
| 1964 | — | — | — | — | — | — | — | — | 208 | 874 | 52 | 31 |
| Total | 110 | 781 | 3 | 10 | 64 | 416 | 177 | 1,207 | 897 | 3,791 | 107 | 65 |

# MAGNESIUM

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Magnesite Production—South Australia .. .. .. .. .. 271–272

Magnesite Production—Western Australia .. .. .. .. .. 273

DOLOMITE PRODUCTION—AUSTRALIA

(Recorded production only)

| Year | Queensland Flinders | New South Wales and Australian Capital Territory | Victoria Coimadai | Tasmania Smithton | South Australia[a] Carpa | Western Australia Mount Magnet | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1917 | — | 1,724 | — | — | — | — | 1,724 |
| 1918 | — | — | — | — | — | — | — |
| 1919 | — | 22,371 | — | — | — | — | 22,371 |
| 1920 | — | 14,808 | — | — | — | — | 14,808 |
| 1921 | — | 8,925 | — | — | — | — | 8,925 |
| 1922 | — | 2,075 | — | — | — | — | 2,075 |
| 1923 | — | 5,059 | — | — | — | — | 5,059 |
| 1924 | — | 24,607 | — | — | — | — | 24,607 |
| 1925 | — | 12,992 | — | — | — | — | 12,992 |
| 1926 | — | 16,875 | — | — | — | — | 16,875 |
| 1927 | — | 21,813 | — | — | — | — | 21,813 |
| 1928 | — | 14,642 | 500 | — | — | — | 15,142 |
| 1929 | — | 15,182 | 200 | — | — | — | 15,382 |
| 1930 | — | 8,517 | 376 | — | — | — | 8,893 |
| 1931 | — | 4,373 | 157 | — | — | — | 4,530 |
| 1932 | — | 11,674 | 145 | — | — | — | 11,819 |
| 1933 | — | 15,713 | 106 | — | — | — | 15,819 |
| 1934 | — | 21,698 | 112 | — | — | — | 21,810 |
| 1935 | — | 23,937 | 122 | — | — | — | 24,059 |
| 1936 | — | 28,138 | 123 | — | — | — | 28,261 |
| 1937 | 1,236 | 34,776 | 120 | — | — | — | 36,132 |
| 1938 | 1,441 | 41,664 | 196 | — | — | — | 43,301 |
| 1939 | 785 | 49,444 | 66 | — | 101 | — | 50,396 |
| 1940 | 607 | 41,158 | 200 | — | 86 | — | 42,051 |
| 1941 | 747 | 51,467 | 154 | — | — | — | 52,368 |
| 1942 | — | 54,831 | 140 | — | — | — | 54,971 |

[a]From Carpa before 1950, from Ardrossan after 1950.

DOLOMITE PRODUCTION—AUSTRALIA—*continued*
(Recorded production only)

| Year | Queensland Flinders | New South Wales and Australian Capital Territory | Victoria Coimadai | Tasmania Smithton | South Australia[a] Carpa | Western Australia Mount Magnet | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1943 | 49 | 47,845 | 144 | — | 360 | — | 48,398 |
| 1944 | 2,203 | 35,030 | 52 | — | — | 159 | 37,444 |
| 1945 | 3,230 | 25,590 | 13 | — | — | 105 | 28,938 |
| 1946 | 4,285 | 22,124 | — | — | — | 98 | 26,507 |
| 1947 | 5,560 | 30,355 | — | — | 1,195 | 57 | 37,167 |
| 1948 | 5,768 | 41,748 | — | — | 2,953 | 107 | 50,576 |
| 1949 | 6,315 | 37,078 | — | — | — | 50 | 43,443 |
| 1950 | 8,499 | 44,736 | — | — | 21,128 | 320 | 74,683 |
| 1951 | 7,365 | 14,125 | — | — | 52,450 | 124 | 74,064 |
| 1952 | 8,074 | 2,959 | — | 1,003 | 83,873 | 555 | 96,464 |
| 1953 | 8,300 | 3,955 | — | 2,565 | 84,822 | — | 99,642 |
| 1954 | 2,680 | 3,855 | — | 2,847 | 118,612 | — | 127,994 |
| 1955 | 5,318 | 6,354 | — | 2,266 | 97,398 | 81 | 111,417 |
| 1956 | 5,510 | 7,599 | — | 788 | 101,496 | 171 | 115,564 |
| 1957 | 5,493 | 5,137 | — | 1,176 | 180,237 | 60 | 192,103 |
| 1958 | 2,779 | 3,957 | — | 2,585 | 148,631 | 196 | 158,148 |
| 1959 | 2,000 | 3,776 | — | 2,907 | 151,041 | — | 159,724 |
| 1960 | 2,139 | 3,357 | — | 2,678 | 182,290 | 404 | 190,868 |
| 1961 | 2,132 | 4,796 | — | 1,108 | 183,214 | 374 | 191,624 |
| 1962 | 3,708 | 4,919 | — | 2,217 | 169,853 | — | 180,697 |
| 1963 | 6,391 | 4,481 | — | 2,623 | 200,844 | — | 214,339 |
| 1964 | 7,585 | 5,545 | — | 923 | 222,015 | — | 236,068 |
| Total | 110,199 | 907,784 | 2,926 | 25,686 | 2,002,599 | 2,861 | 3,052,055 |

[a]From Carpa before 1950, from Ardrossan after 1950.

## MAGNESITE PRODUCTION—AUSTRALIA

| Year | Queensland Rockhampton District | New South Wales | Victoria Heathcote | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1909 | — | 80 | — | — | — | 80 |
| 1910 | — | — | — | — | — | — |
| 1911 | — | 150 | 172 | — | — | 322 |
| 1912 | — | 5,700* | 211 | — | — | 211 |
| 1913 | — | 7,000* | 104 | — | — | 104 |
| 1914 | — | 2,000* | 23 | — | — | 23 |
| 1915 | — | 830 | 189 | 80 | 602 | 1,701 |
| 1916 | — | 3,761 | 29 | 166 | 97 | 4,053 |
| 1917 | — | 9,189 | 74 | 150 | 21 | 9,434 |
| 1918 | — | 3,365 | 225 | 440 | 105 | 4,135 |
| 1919 | — | 9,264 | 77 | 273 | — | 9,614 |
| 1920 | — | 6,474 | 151 | 185 | — | 6,810 |
| 1921 | — | 12,268 | 128 | 172 | — | 12,568 |
| 1922 | — | 3,370 | 97 | 576 | — | 4,043 |
| 1923 | — | 6,130 | 75 | 165 | — | 6,370 |
| 1924 | 149 | 12,496 | 76 | 129 | — | 12,850 |
| 1925 | 267 | 14,012 | 91 | 351 | — | 14,721 |
| 1926 | — | 10,263 | 94 | 226 | — | 10,583 |
| 1927 | — | 10,017 | 72 | 330 | — | 10,419 |
| 1928 | 15 | 10,669 | 72 | 45 | — | 10,801 |
| 1929 | 30 | 9,053 | 27 | 135 | — | 9,245 |
| 1930 | 150 | 8,655 | 63 | 36 | — | 8,904 |
| 1931 | 100 | 3,425 | 50 | — | — | 3,575 |
| 1932 | 130 | 5,117 | 29 | 115 | — | 5,391 |
| 1933 | 150 | 9,362 | 6 | 202 | — | 9,720 |
| 1934 | 41 | 15,651 | 26 | 205 | — | 15,923 |
| 1935 | 100 | 15,668 | 330 | 50 | — | 16,248 |
| 1936 | — | 17,183 | 216 | 116 | — | 17,515 |
| 1937 | — | 19,494 | 141 | 70 | — | 19,705 |
| 1938 | — | 19,158 | 121 | 227 | 10 | 19,516 |

MAGNESITE PRODUCTION—AUSTRALIA—*continued*

| Year | Queensland Rockhampton District | New South Wales | Victoria Heathcote | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1939 | — | 25,189 | 118 | 376 | — | 25,683 |
| 1940 | — | 22,876 | 111 | 1,634 | 257 | 24,878 |
| 1941 | 367 | 26,355 | 86 | 791 | 100 | 27,699 |
| 1942 | — | 34,041 | 13 | 862 | 25 | 34,941 |
| 1943 | — | 64,069 | — | 791 | — | 64,860 |
| 1944 | — | 31,245 | — | 460 | — | 31,705 |
| 1945 | — | 22,342 | — | 740 | — | 23,082 |
| 1946 | — | 21,375 | — | 647 | 11 | 22,033 |
| 1947 | — | 35,751 | — | 987 | 73 | 36,811 |
| 1948 | — | 30,601 | — | 879 | 962 | 32,442 |
| 1949 | — | 30,991 | — | 565 | 2,034 | 33,590 |
| 1950 | — | 32,386 | — | 1,177 | 1,829 | 35,392 |
| 1951 | 13 | 35,963 | 398 | 998 | 762 | 38,134 |
| 1952 | 13 | 40,333 | 164 | 572 | 1,055 | 42,137 |
| 1953 | — | 45,769 | 572 | 36 | 20 | 46,397 |
| 1954 | — | 42,825 | — | 235 | 92 | 43,152 |
| 1955 | — | 57,262 | — | 412 | — | 57,674 |
| 1956 | — | 63,050 | — | 831 | 804 | 64,685 |
| 1957 | — | 83,271 | — | 202 | — | 83,473 |
| 1958 | 20 | 69,030 | — | 341 | — | 69,391 |
| 1959 | — | 59,777 | — | 790 | 19 | 60,586 |
| 1960 | — | 61,668 | — | 498 | — | 62,166 |
| 1961 | — | 88,511 | — | 659 | 9,625 | 98,795 |
| 1962 | — | 61,672 | — | 295 | 224 | 62,191 |
| 1963 | — | 49,909 | — | 542 | 6,495 | 56,946 |
| 1964 | — | 29,281 | — | 395 | 1,574 | 31,250 |
| Total | 1,645 | 1,400,646 | 4,430 | 21,159 | 26,796 | 1,454,676 |

## MAGNESIUM PRODUCTION—AUSTRALIA

The only production of magnesium in Australia was during the period 1941 to 1944 inclusive when Broken Hill Proprietary Co. Ltd. produced approximately 1,077 tons.

## MAGNESITE (INCLUDING CALCINED MAGNESITE)—EXPORTS AND IMPORTS—AUSTRALIA

| EXPORTS[a] | | | IMPORTS[b] | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1947–48 | 148 | 1,433 | 1945–46 | 28 | 2,879 |
| 1948–49 | 422 | 3,731 | 1946–47 | 32 | 2,859 |
| | | | 1947–48 | 93 | 7,089 |
| 1950 | 36 | 994 | 1949 | 77 | 5,546 |
| 1951 | 64 | 4,141 | | | |
| 1952 | 91 | 4,894 | 1950 | 844 | 8,029 |
| 1953 | 98 | 5,816 | 1951 | 530 | 8,654 |
| 1954 | 107 | 6,990 | 1952 | 772 | 10,451 |
| | | | 1953 | 401 | 12,435 |
| 1955 | 106 | 4,411 | 1954 | 2,364 | 68,851 |
| 1956 | 108 | 5,389 | | | |
| 1957 | 53 | 2,404 | 1955 | 4,588 | 104,106 |
| 1958 | 31 | 1,616 | 1956 | 2,238 | 93,286 |
| 1959 | 64 | 2,759 | 1957 | 3,833 | 108,093 |
| | | | 1958 | 6,555 | 143,635 |
| 1960 | 106 | 3,880 | 1959 | 2,680 | 98,000 |
| 1961 | 2,719 | 22,574 | | | |
| 1962 | 230 | 6,685 | 1960 | 13,946 | 286,908 |
| 1963 | 574 | 11,633 | 1961 | 15,711 | 427,841 |
| 1964 | 2,163 | 59,271 | 1962 | 6,856 | 251,332 |
| | | | 1963 | 31,720 | 826,473 |
| | | | 1964 | 45,163 | 1,093,350 |

[a] Not recorded as a separate item prior to 1st July, 1947. [b] Not recorded as a separate item prior to 1st July, 1945.

## MAGNESIUM METAL (INCLUDING POWDER)—IMPORTS—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1937–38 | 2 | 679 | 1949 | † | 38 |
| 1938–39 | 3 | 458 | | | |
| 1939–40 | 1 | 496 | 1950 | † | 38 |
| | | | 1951 | 1 | 159 |
| 1940–41 | 2 | 4,257 | 1952 | 11 | 6,018 |
| 1941–42 | 71 | 54,613 | 1953 | † | 58 |
| 1942–43 | 41 | 26,534 | 1954 | 3 | 946 |
| 1943–44 | 37 | 23,568 | | | |
| 1944–45 | † | 3 | 1955 | 58 | 18,188 |
| | | | 1956 | 26 | 9,083 |
| 1945–46 | n.a. | n.a. | 1957 | 60 | 23,454 |
| 1946–47 | n.a. | n.a. | 1958 | 88 | 26,994 |
| 1947–48 | † | 268 | 1959 | 75 | 22,023 |
| | | | 1960 | 141 | 39,031 |
| | | | 1961 | 103 | 32,368 |
| | | | 1962 | 211 | 64,567 |
| | | | 1963 | 338 | 97,677 |
| | | | 1964 | 460 | 154,528 |

## DOLOMITE PRODUCTION—NEW SOUTH WALES AND AUSTRALIAN CAPITAL TERRITORY

| ear | Mudgee District | | | Bungendore District | | Rockley District Cow Flat, George's Plains | Rylstone District | | Mis-cellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | Mt. Knowles | Wall's Siding | Buckaroo | Mt. Fairy | | | Clandulla | Rylstone | | |
| | | | | New South Wales | A.C.T. | | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 17 | — | 1,724 | — | — | — | — | — | — | — | 1,724 |
| 18 | — | — | — | — | — | — | — | — | — | — |
| 19 | — | [a]22,371 | — | — | — | — | — | — | — | 22,371 |
| 20 | — | [a]14,808 | — | — | — | — | — | — | — | 14,808 |
| 21 | — | [a]8,925 | — | — | — | — | — | — | — | 8,925 |
| 22 | — | [a]2,075 | — | — | — | — | — | — | — | 2,075 |
| 23 | 2,359 | 2,200 | — | — | — | — | 500 | — | — | 5,059 |
| 24 | 11,595 | [c]13,012 | — | — | — | — | — | — | — | 24,607 |
| 25 | — | 6,000 | — | — | — | — | 6,992 | — | — | 12,992 |
| 26 | 10,393 | 4,182 | 160 | — | — | — | 2,140 | — | — | 16,875 |
| 27 | 17,133 | 4,680 | — | — | — | — | — | — | — | 21,813 |
| 28 | 10,744 | 3,898 | — | — | — | — | — | — | — | 14,642 |
| 29 | 9,930 | 5,116 | 136 | — | — | — | — | — | — | [b]15,182 |
| 30 | 5,431 | 2,957 | 99 | — | — | — | — | — | — | [b]8,517 |
| 31 | 2,633 | 1,740 | — | — | — | — | — | — | — | 4,373 |
| 32 | 7,594 | 3,880 | 200 | — | — | — | — | — | — | 11,674 |
| 33 | 10,168 | 5,290 | 255 | — | — | — | — | — | — | 15,713 |
| 34 | 13,368 | 8,148 | 182 | — | — | — | — | — | — | 21,698 |
| 35 | 14,931 | 2,843 | 145 | — | 6,018 | — | — | — | — | 23,937 |
| 36 | 16,240 | 3,257 | 100 | — | 8,541 | — | — | — | — | 28,138 |
| 37 | 20,557 | 2,796 | 275 | — | 11,148 | — | — | — | — | 34,776 |
| 38 | 18,159 | 7,035 | 345 | — | 16,125 | — | — | — | — | 41,664 |
| 39 | 22,387 | 8,252 | 160 | — | 18,545 | — | — | 100 | — | 49,444 |
| 40 | 15,822 | [c]6,903 | 237 | — | 17,420 | — | — | 626 | 150 | 41,158 |
| 41 | 17,070 | 8,390 | 307 | — | 23,550 | 2,000 | — | — | 150 | 51,467 |
| 42 | 13,841 | 8,463 | 227 | — | 30,073 | 2,027 | — | — | 200 | 54,831 |

ncluding Mt. Knowles production. [b] Including 30 tons from Cobar. [c] Including small tonnage from Mudgee District nerally. [d] Not all accounted for in previous columns.

DOLOMITE PRODUCTION—NEW SOUTH WALES AND AUSTRALIAN CAPITAL TERRITORY—*continued*

| Year | Mudgee District | | | Bungendore District | | Rockley District Cow Flat, George's Plains | Rylstone District | | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | Mt. Knowles | Wall's Siding | Buckaroo | Mt. Fairy | | | Clandulla | Rylstone | | |
| | | | | New South Wales | A.C.T. | | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1943 | 12,692 | 9,000 | 130 | 900 | 22,620 | 2,253 | — | — | 250 | 47,84 |
| 1944 | 5,514 | 5,118 | 121 | 5,915 | 15,498 | 2,864 | — | — | — | 35,03 |
| 1945 | — | 2,847 | — | 785 | 19,895 | 2,063 | — | — | — | 25,59 |
| 1946 | — | — | — | 280 | 18,340 | 3,009 | — | — | 470 | [d]22,12 |
| 1947 | — | — | 91 | 12,744 | 14,390 | 2,930 | — | — | 200 | 30,35 |
| 1948 | — | — | — | 21,753 | — | 6,140 | — | — | 850 | [d]41,74 |
| 1949 | 5,381 | — | 15 | 20,808 | — | 1,144 | — | — | 931 | 37,07 |
| 1950 | 3,572 | — | 60 | 30,314 | — | 3,602 | — | — | 672 | 44,73 |
| 1951 | 2,274 | — | — | 3,349 | — | 3,333 | — | — | 120 | 14,12 |
| 1952 | — | — | — | — | — | 2,946 | — | — | 13 | 2,95 |
| 1953 | — | — | — | — | — | 3,940 | — | — | 15 | 3,95 |
| 1954 | — | — | — | — | — | 3,855 | — | — | — | 3,85 |
| 1955 | — | — | — | — | — | 6,354 | — | — | — | 6,35 |
| 1956 | — | — | — | — | — | 7,599 | — | — | — | 7,59 |
| 1957 | — | — | — | — | — | 4,857 | — | 280 | — | 5,13 |
| 1958 | — | — | — | — | — | 3,957 | — | — | — | 3,95 |
| 1959 | — | — | — | — | — | 3,776 | — | — | — | 3,77 |
| 1960 | — | — | — | — | — | 3,357 | — | — | — | 3,35 |
| 1961 | 1,103 | — | — | — | — | 3,693 | — | — | — | 4,79 |
| 1962 | 1,130 | — | — | — | — | 3,789 | — | — | — | 4,91 |
| 1963 | 742 | — | — | — | — | 3,739 | — | — | — | 4,48 |
| 1964 | 1,286 | — | — | — | — | 4,259 | — | — | — | 5,54 |
| Total | 274,049 | 175,910 | 3,245 | 96,848 | 222,163 | 87,486 | 9,632 | 1,006 | 4,021 | 907,78 |

[a] Including Mt. Knowles production. [b] Including 30 tons from Cobar. [c] Including small tonnage from Mudgee Distri generally. [d] Not all accounted for in previous columns.

## MAGNESITE PRODUCTION—NEW SOUTH WALES

| Year | Trundle District Fifield | Tamworth District Attunga | Young District Thuddungra | Bingara District | Barraba District | Gundagai District | Cargelligo Division | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1909 | [a]80 | — | — | — | — | — | — | — | [a]80 |
| 1910 | — | — | — | — | — | — | — | — | — |
| 1911 | 150 | — | — | — | — | — | — | — | 150 |
| 1912 | [b]5,700 | — | — | — | — | — | — | — | [b]5,700 |
| 1913 | [b]7,000 | — | — | — | — | — | — | — | [b]7,000 |
| 1914 | [b]2,000 | — | — | — | — | — | — | — | [b]2,000 |
| 1915 | 830 | — | — | — | — | — | — | — | 830 |
| 1916 | 3,516 | 200 | — | 45 | — | — | — | — | 3,761 |
| 1917 | 4,189 | 5,000 | — | — | — | — | — | — | 9,189 |
| 1918 | 2,855 | 450 | — | 60 | — | — | — | — | 3,365 |
| 1919 | 3,435 | 5,829 | — | — | — | — | — | — | 9,264 |
| 1920 | 3,261 | 3,199 | — | 14 | — | — | — | — | 6,474 |
| 1921 | 5,368 | 6,548 | — | 252 | — | — | — | [g]100 | 12,268 |
| 1922 | 1,184 | 2,186 | — | — | — | — | — | — | 3,370 |
| 1923 | 1,190 | 4,620 | — | — | — | — | — | [g]320 | 6,130 |
| 1924 | 3,251 | 9,100 | — | — | 3 | — | — | [g]142 | 12,496 |
| 1925 | 2,265 | 11,546 | — | — | — | — | — | [c]201 | 14,012 |
| 1926 | 1,800 | 8,343 | — | — | — | — | — | [g]120 | 10,263 |
| 1927 | 2,715 | 7,252 | — | — | — | — | — | [g]50 | 10,017 |
| 1928 | 3,049 | 7,620 | — | — | — | — | — | — | 10,669 |
| 1929 | 4,674 | 4,379 | — | — | — | — | — | — | 9,053 |
| 1930 | 2,484 | 6,141 | — | 30 | — | — | — | — | 8,655 |
| 1931 | 992 | 2,433 | — | — | — | — | — | — | 3,425 |
| 1932 | 4,158 | 914 | — | 45 | — | — | — | — | 5,117 |
| 1933 | 5,547 | 3,415 | — | 400 | — | — | — | — | 9,362 |
| 1934 | 12,028 | 2,573 | — | 1,050 | — | — | — | — | 15,651 |
| 1935 | 10,975 | 4,335 | 75 | 283 | — | — | — | — | 15,668 |
| 1936 | 13,898 | 3,025 | 210 | 50 | — | — | — | — | 17,183 |
| 1937 | 18,852 | — | 384 | 15 | — | 120 | — | [f]123 | 19,494 |
| 1938 | 18,645 | 28 | 407 | — | 48 | 30 | — | — | 19,158 |

[a] 36 tons calcined magnesite also recorded as produced. [b] Raised but not sold; not included in total. [c] 200 tons from Cobar and 1 ton from Gulgong District. [d] Broken Hill. [f] Mineral Hill (Condobolin). [g] From Cobar. [h] Not all accounted for in previous columns. [j] Not in agreement with previous columns. [k] From Tottenham. [l] From Nyngan Mining Division. [m] From West Wyalong Mining Division.

MAGNESITE PRODUCTION—NEW SOUTH WALES—*continued*

| Year | Trundle District Fifield | Tamworth District Attunga | Young District Thud-dungra | Bingara District | Barraba District | Gundagai District | Cargelligo Division | Mis-cellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1939 | 19,473 | 1,738 | 810 | — | 1,965 | 1,190 | — | [g]13 | 25,189 |
| 1940 | 18,984 | 700 | 700 | — | 715 | 1,777 | — | — | 22,876 |
| 1941 | 23,660 | — | 1,989 | — | 100 | 600 | — | [g]6 | 26,355 |
| 1942 | 24,174 | — | 9,327 | — | — | — | — | — | 34,041 |
| 1943 | 31,115 | 120 | 32,509 | — | 311 | — | — | [d]14 | 64,069 |
| 1944 | 21,676 | 85 | 8,433 | — | 1,041 | — | — | [g]10 | 31,245 |
| 1945 | 21,387 | 377 | — | — | 433 | — | 145 | — | 22,342 |
| 1946 | 17,261 | 336 | 467 | — | 154 | — | 2,700 | — | [h]21,375 |
| 1947 | 17,634 | 667 | 4,224 | — | 763 | — | 11,657 | — | [h]35,751 |
| 1948 | 15,642 | 168 | 6,020 | — | 149 | — | 8,722 | — | [j]30,601 |
| 1949 | 15,298 | — | 9,512 | — | — | — | 6,271 | — | [j]30,991 |
| 1950 | 16,459 | 24 | 15,803 | — | — | — | 100 | — | [h]32,386 |
| 1951 | 22,171 | — | 13,792 | — | — | — | — | — | 35,963 |
| 1952 | 29,725 | — | 5,050 | — | 15 | — | 5,543 | — | 40,333 |
| 1953 | 30,132 | — | 13,786 | — | — | — | 1,754 | [k]97 | 45,769 |
| 1954 | 31,657 | — | 11,098 | — | — | — | — | [l]70 | 42,825 |
| 1955 | 43,031 | — | 14,231 | — | — | — | — | — | 57,262 |
| 1956 | 40,099 | — | 22,951 | — | — | — | — | — | 63,050 |
| 1957 | 46,374 | — | 34,010 | — | — | — | 2,812 | [m]75 | 83,271 |
| 1958 | 29,130 | — | 28,415 | — | 46 | — | 11,439 | — | 69,030 |
| 1959 | 26,120 | — | 24,960 | — | — | — | 8,697 | — | 59,777 |
| 1960 | 29,531 | — | 24,010 | — | — | — | 8,127 | — | 61,668 |
| 1961 | 38,868 | — | 33,157 | — | 25 | — | 16,425 | — | [h]88,511 |
| 1962 | 30,957 | — | 23,683 | — | — | — | 7,032 | — | 61,672 |
| 1963 | 26,633 | — | 20,583 | — | — | — | 2,693 | — | 49,909 |
| 1964 | 19,402 | — | 9,879 | — | — | — | — | — | 29,281 |
| Total | 818,524 | 103,351 | 370,475 | 2,244 | 5,768 | 3,717 | 94,117 | 1,341 | 1,400,646 |

[a] 36 tons calcined magnesite also recorded as produced. [b] Raised but not sold; not included in total. [c] 200 tons from Cobar and 1 ton from Gulgong District. [d] Broken Hill. [f] Mineral Hill (Condobolin). [g] From Cobar. [h] Not all accounted for in previous columns. [j] Not in agreement with previous columns. [k] From Tottenham. [l] From Nyngan Mining Division. [m] From West Wyalong Mining Division.

## MAGNESITE PRODUCTION—SOUTH AUSTRALIA

| Year | Robertstown District Hds. Bright Apoinga, English | N.W. of Leigh Creek | Paratoo Hd. Paratoo | Copley | Saltia Hds. Davenport and Crozier | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1915 | — | — | — | — | — | [b]80 | 80 |
| 1916 | 95 | — | — | — | — | [ab]71 | 166 |
| 1917 | 100 | — | — | — | — | [b]50 | 150 |
| 1918 | 350 | — | — | — | — | [b]90 | 440 |
| 1919 | 273 | — | — | — | — | — | 273 |
| 1920 | 185 | — | — | — | — | — | 185 |
| 1921 | 110 | — | 62 | — | — | — | 172 |
| 1922 | 310 | — | 8 | — | — | [c]258 | 576 |
| 1923 | 65 | — | 50 | — | — | [b]50 | 165 |
| 1924 | 120 | — | — | — | — | [c]9 | 129 |
| 1925 | 150 | — | 24 | — | — | [d]177 | 351 |
| 1926 | 106 | — | 100 | 20 | — | — | 226 |
| 1927 | 155 | — | — | 171 | — | [f]4 | 330 |
| 1928 | 45 | — | — | — | — | — | 45 |
| 1929 | — | — | 40 | — | — | [g]95 | 135 |
| 1930 | 30 | — | 6 | — | — | — | 36 |
| 1931 | — | — | — | — | — | — | — |
| 1932 | 115 | — | — | — | — | — | 115 |
| 1933 | 202 | — | — | — | — | — | 202 |
| 1934 | 205 | — | — | — | — | — | 205 |
| 1935 | 50 | — | — | — | — | — | 50 |
| 1936 | 116 | — | — | — | — | — | 116 |
| 1937 | 70 | — | — | — | — | — | 70 |
| 1938 | 227 | — | — | — | — | — | 227 |
| 1939 | 376 | — | — | — | — | — | 376 |
| 1940 | 1,007 | — | 103 | 15 | 509 | — | 1,634 |
| 1941 | 151 | — | 105 | 311 | 224 | — | 791 |

[a] Beetaloo. [b] Tumby Bay. [c] Hd. Yatala. [d] Wongyarra. [f] Cleve. [g] 85 Bungaree, 10 Clare. [h] N.W. of Balcanoona H.S.

MAGNESITE PRODUCTION—SOUTH AUSTRALIA—*continued*

| Year | Robertstown District Hds. Bright Apoinga, English | N.W. of Leigh Creek | Paratoo Hd. Paratoo | Copley | Saltia Hds. Davenport and Crozier | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1942 | 9 | — | 65 | 788 | — | — | 862 |
| 1943 | 6 | — | — | 785 | — | — | 791 |
| 1944 | 35 | — | — | 335 | 90 | — | 460 |
| 1945 | — | — | 129 | 426 | 185 | — | 740 |
| 1946 | 72 | — | — | 454 | 121 | — | 647 |
| 1947 | 50 | — | — | 103 | 834 | — | 987 |
| 1948 | — | — | — | 422 | 457 | — | 879 |
| 1949 | 118 | — | — | 347 | — | [d]100 | 565 |
| 1950 | — | — | — | 273 | — | [d]904 | 1,177 |
| 1951 | — | — | — | 697 | 301 | — | 998 |
| 1952 | — | — | — | 532 | 40 | — | 572 |
| 1953 | 32 | — | — | — | 4 | — | 36 |
| 1954 | — | — | — | 235 | — | — | 235 |
| 1955 | — | — | — | 412 | — | — | 412 |
| 1956 | — | 181 | — | — | — | [h]650 | 831 |
| 1957 | — | 202 | — | — | — | — | 202 |
| 1958 | — | 341 | — | — | — | — | 341 |
| 1959 | — | 790 | — | — | — | — | 790 |
| 1960 | — | 408 | — | 90 | — | — | 498 |
| 1961 | — | 659 | — | — | — | — | 659 |
| 1962 | — | 295 | — | — | — | — | 295 |
| 1963 | — | 542 | — | — | — | — | 542 |
| 1964 | — | 395 | — | — | — | — | 395 |
| Total | 4,935 | 3,813 | 692 | 6,416 | 2,765 | 2,538 | 21,159 |

[a] Beetaloo. [b] Tumby Bay. [c] Hd. Yatala. [d] Wongyarra. [f] Cleve. [g] 85 Bungaree, 10 Clare. [h] N.W. of Balcanoona H.S.

MAGNESITE PRODUCTION—WESTERN AUSTRALIA

| Year | Bulong | Coolgardie | Northam | Ravens-thorpe | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1915 | 602 | — | — | — | 602 |
| 1916 | 97 | — | — | — | 97 |
| 1917 | 21 | — | — | — | 21 |
| 1918 | 105 | — | — | — | 105 |
| 1919–37 | — | — | — | — | — |
| 1938 | — | 10 | — | — | 10 |
| 1939 | — | — | — | — | — |
| 1940 | — | 257 | — | — | 257 |
| 1941 | 100 | — | — | — | 100 |
| 1942 | — | 25 | — | — | 25 |
| 1943–45 | — | — | — | — | — |
| 1946 | 11 | — | — | — | 11 |
| 1947 | 73 | — | — | — | 73 |
| 1948 | — | 467 | 495 | — | 962 |
| 1949 | 27 | 21 | 1,986 | — | 2,034 |
| 1950 | — | 40 | 1,789 | — | 1,829 |
| 1951 | 418 | 344 | — | — | 762 |
| 1952 | — | 1,055 | — | — | 1,055 |
| 1953 | — | 20 | — | — | 20 |
| 1954 | — | 92 | — | — | 92 |
| 1955 | — | — | — | — | — |
| 1956 | 359 | 445 | — | — | 804 |
| 1957–58 | — | — | — | — | — |
| 1959 | — | — | — | 19 | 19 |
| 1960 | — | — | — | — | — |
| 1961 | — | — | — | 9,625 | 9,625 |
| 1962 | — | — | — | 224 | 224 |
| 1963 | — | — | — | 6,495 | 6,495 |
| 1964 | — | — | — | 1,574 | 1,574 |
| Total | 1,813 | 2,776 | 4,270 | 17,937 | 26,796 |

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# MANGANESE

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## MANGANESE PRODUCTION—AUSTRALIA
(Manganese Ore)

| Year | Queensland | New South Wales | Victoria | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|
| | | | | | | Renner Springs | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1882 | — | — | — | 135 | — | — | 135 |
| 1883 | — | — | — | 333 | — | — | 333 |
| 1884 | — | 200 | — | 59 | — | — | 259 |
| 1885 | — | — | — | 130 | — | — | 130 |
| 1886 | — | — | — | 1,550 | — | — | 1,550 |
| 1887 | — | — | — | 1,452 | — | — | 1,452 |
| 1888 | — | — | — | 1,021 | — | — | 1,021 |
| 1889 | — | — | — | 1,596 | — | — | 1,596 |
| 1890 | — | 100 | — | 2,764 | — | — | 2,864 |
| 1891 | — | 138 | — | 848 | — | — | 986 |
| 1892 | — | 16 | — | 704 | — | — | 720 |
| 1893 | — | — | — | 2,428 | — | — | 2,428 |
| 1894 | 140 | 14 | — | 174 | — | — | 328 |
| 1895 | 355 | 4 | — | 48 | — | — | 407 |
| 1896 | 300 | — | — | — | — | — | 300 |
| 1897 | 397 | — | — | — | — | — | 397 |
| 1898 | 67 | 1 | — | — | — | — | 68 |
| 1899 | 735 | — | — | 100 | — | — | 835 |
| 1900 | 75 | 18 | — | — | — | — | 93 |
| 1901 | 218 | 12 | — | 132 | — | — | 362 |
| 1902 | 4,600 | — | — | 18 | — | — | 4,618 |
| 1903 | 1,320 | — | — | — | — | — | 1,320 |
| 1904 | 830 | — | — | — | — | — | 830 |
| 1905 | 1,517 | — | — | — | — | — | 1,517 |
| 1906 | 1,113 | 60 | — | — | — | — | 1,173 |
| 1907 | 1,116 | 500 | — | — | — | — | 1,616 |
| 1908 | 1,381 | — | — | — | — | — | 1,381 |
| 1909 | 603 | — | — | — | — | — | 603 |
| 1910 | 792 | — | [a]23 | — | — | — | 815 |
| 1911 | 1,149 | — | [a]2 | — | — | — | 1,151 |
| 1912 | 308 | — | 20 | — | — | — | 328 |
| 1913 | 27 | — | — | — | — | — | 27 |
| 1914 | 6 | — | 20 | — | — | — | 26 |
| 1915 | 200 | 713 | 97 | 250 | — | — | 1,260 |
| 1916 | 643 | 1,924 | 85 | 544 | — | — | 3,196 |
| 1917 | 21 | 3,721 | — | 264 | — | — | 4,006 |
| 1918 | 1,306 | 6,512 | — | 1,080 | — | — | 8,898 |
| 1919 | 20 | 4,651 | — | 298 | — | — | 4,969 |
| 1920 | 15 | 2,531 | — | 514 | — | — | 3,060 |
| 1921 | 833 | 3,515 | 10 | 1,596 | — | — | 5,954 |
| 1922 | 67 | 2,398 | 150 | 639 | 18 | — | 3,272 |
| 1923 | 74 | 2,556 | — | 168 | — | — | 2,798 |
| 1924 | — | 4,387 | — | 316 | 59 | — | 4,762 |
| 1925 | — | 1,164 | — | — | — | — | 1,164 |
| 1926 | 20 | 1,290 | — | — | — | — | 1,310 |
| 1927 | 242 | 1,202 | 15 | — | — | — | 1,459 |
| 1928 | — | 167 | — | — | — | — | 167 |

[a]All from Heathcote, with exception of 3 tons from Buchan 1910 and 2 tons Yackandandah 1911.

MANGANESE PRODUCTION—AUSTRALIA—*continued*
(Manganese Ore)

| Year | Queensland | New South Wales | Victoria | South Australia | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|
| | | | | | | Renner Springs | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1929 | — | 233 | — | — | — | — | 233 |
| 1930 | — | 125 | — | — | — | — | 125 |
| 1931 | — | — | — | 13 | — | — | 13 |
| 1932 | — | 106 | — | — | — | — | 106 |
| 1933 | — | 129 | — | 20 | — | — | 149 |
| 1934 | — | 103 | — | 2 | — | — | 105 |
| 1935 | — | 148 | — | — | — | — | 148 |
| 1936 | — | 72 | — | — | — | — | 72 |
| 1937 | 1,908 | 108 | — | — | — | — | 2,016 |
| 1938 | 708 | 218 | — | — | — | — | 926 |
| 1939 | — | 146 | — | 7 | — | — | 153 |
| 1940 | 381 | 1,008 | — | 10,656 | — | — | 12,045 |
| 1941 | 198 | 1,462 | — | 11,946 | — | — | 13,606 |
| 1942 | 150 | 780 | — | 9,327 | — | — | 10,257 |
| 1943 | 56 | 604 | — | 5,590 | — | — | 6,250 |
| 1944 | — | 770 | — | 1,220 | — | — | 1,970 |
| 1945 | — | 984 | — | — | — | — | 984 |
| 1946 | — | 1,385 | — | — | — | — | 1,385 |
| 1947 | — | 1,587 | — | 189 | — | — | 1,776 |
| 1948 | — | 1,552 | — | 250 | 1,645 | — | 3,447 |
| 1949 | 233 | 1,578 | — | 1,856 | 9,420 | — | 13,087 |
| 1950 | 571 | 2,099 | — | 237 | 11,962 | — | 14,869 |
| 1951 | — | 2,684 | — | 27 | 5,257 | — | 7,968 |
| 1952 | — | 2,024 | — | — | 5,045 | — | 7,069 |
| 1953 | 43 | 2,443 | — | — | 30,457 | — | 32,943 |
| 1954 | 138 | 1,616 | — | — | 26,448 | — | 28,202 |
| 1955 | 78 | 1,622 | — | — | 44,194 | 1,462 | 47,356 |
| 1956 | 311 | 1,513 | — | — | 56,234 | 1,326 | 59,384 |
| 1957 | 1,239 | 1,463 | — | — | 73,279 | 1,029 | 77,010 |
| 1958 | 7,068 | 1,858 | — | — | 47,584 | 3,173 | 59,683 |
| 1959 | 9,666 | 2,578 | — | — | 75,733 | 1,994 | 89,971 |
| 1960 | 3,710 | 1,579 | — | 69 | 54,010 | 1,425 | 60,793 |
| 1961 | 2,465 | 883 | — | 295 | 84,273 | 108 | 88,024 |
| 1962 | 2,880 | 583 | — | — | 67,871 | 312 | 71,646 |
| 1963 | 150 | 624 | — | — | 34,808 | 479 | 36,061 |
| 1964 | 199 | 336 | 15 | 11 | 60,182 | 366 | 61,109 |
| Total | 52,642 | 74,797 | 437 | 60,856 | 688,479 | 11,674 | 888,885 |

[a]All from Heathcote, with exception of 3 tons from Buchan 1910 and 2 tons Yackandandah 1911.

## MANGANESE ORE[a]—EXPORTS[b] AND IMPORTS[b]—AUSTRALIA

| EXPORTS | | | IMPORTS | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1903 | — | — | 1903 | 11 | 55 |
| 1904 | — | — | 1904 | 20 | 158 |
| 1905 | — | — | 1905 | 170 | 390 |
| 1906 | 9 | 26 | 1906 | 219 | 1,319 |
| 1907 | — | — | 1907 | 8 | 118 |
| 1908 | 2 | 7 | 1908 | 43 | 387 |
| 1909 | 1 | 4 | 1909 | 293 | 1,341 |
| 1910 | 9 | 18 | 1910 | 582 | 2,336 |
| 1911 | † | 10 | 1911 | 16 | 122 |
| 1912 | 3 | 13 | 1912 | 11 | 59 |
| 1913 | — | — | 1913 | 174 | 1,852 |
| 1914 | n.a. | n.a. | 1914 | n.a. | n.a. |
| 1914–15 | † | 8 | 1914–15 | 75 | 711 |
| 1915–16 | 521 | 5,687 | 1915–16 | 8 | 148 |
| 1916–17 | 224 | 2,226 | 1916–17 | 4 | 9 |
| 1917–18 | 260 | 4,571 | 1917–18 | 10 | 45 |
| 1918–19 | 605 | 14,290 | 1918–19 | 3,120 | 13,464 |
| 1919–20 | 20 | 674 | 1919–20 | 2,620 | 10,690 |
| 1920–21 | 55 | 660 | 1920–21 | 1,972 | 8,055 |
| 1921–22 | 15 | 135 | 1921–22 | 2,951 | 8,852 |
| 1922–23 | 23 | 227 | 1922–23 | 1,026 | 2,723 |
| 1923–24 | 32 | 225 | 1923–24 | 57 | 926 |
| 1924–25 | 11 | 93 | 1924–25 | 181 | 1,781 |
| 1925–26 | 22 | 87 | 1925–26 | 54 | 789 |
| 1926–27 | 72 | 423 | 1926–27 | 79 | 951 |
| 1927–28 | 31 | 315 | 1927–28 | 102 | 1,206 |
| 1928–29 | — | — | 1928–29 | 311 | 2,453 |
| 1929–30 | 80 | 230 | 1929–30 | 189 | 1,749 |
| 1930–31 | — | — | 1930–31 | 535 | 5,781 |
| 1931–32 | 1 | 2 | 1931–32 | 558 | 8,274 |

[a]Includes manganese metal up to 30th June, 1945.
[b]Statistics not available prior to 1903.

MANGANESE ORE[a]—EXPORTS[b] AND IMPORTS[b]—AUSTRALIA—*continued*

| | EXPORTS | | | IMPORTS | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1932–33 | 1 | 10 | 1932–33 | 301 | 5,168 |
| 1933–34 | — | — | 1933–34 | 279 | 5,465 |
| 1934–35 | — | — | 1934–35 | 158 | 3,185 |
| 1935–36 | — | — | 1935–36 | 194 | 3,134 |
| 1936–37 | — | — | 1936–37 | 91 | 1,370 |
| 1937–38 | 2,636 | 6,328 | 1937–38 | 39 | 164 |
| 1938–39 | 6 | 31 | 1938–39 | 94 | 1,503 |
| 1939–40 | † | 1 | 1939–40 | 22,929 | 71,331 |
| 1940–41 | — | — | 1940–41 | 1,076 | 13,560 |
| 1941–42 | 1 | 20 | 1941–42 | 895 | 17,016 |
| 1942–43 | — | — | 1942–43 | 1,855 | 39,826 |
| 1943–44 | 3 | 98 | 1943–44 | 19,678 | 62,209 |
| 1944–45 | 97 | 3,239 | 1944–45 | 364 | 7,734 |
| 1946 | 87 | 4,266 | 1945–46 | 173 | 3,912 |
| 1947 | 5 | 359 | 1947 | 82 | 1,494 |
| 1948 | 5 | 80 | 1948 | 6,769 | 30,730 |
| 1949 | — | — | 1949 | 19,636 | 206,570 |
| 1950 | 6 | 374 | 1950 | 14,790 | 147,959 |
| 1951 | — | — | 1951 | 2,735 | 42,504 |
| 1952 | 110 | 2,228 | 1952 | 36 | 540 |
| 1953 | 14,152 | 242,509 | 1953 | 1,231 | 20,102 |
| 1954 | 4,185 | 82,772 | 1954 | 1,179 | 20,286 |
| 1955 | 2 | 84 | 1955 | 3,135 | 54,163 |
| 1956 | 2 | 53 | 1956 | 2,010 | 42,431 |
| 1957 | 30,061 | 670,755 | 1957 | 2,049 | 67,134 |
| 1958 | 18,399 | 383,044 | 1958 | 1,188 | 60,020 |
| 1959 | 31,812 | 488,701 | 1959 | 1,307 | 67,630 |
| 1960 | 45,639 | 658,903 | 1960 | 228 | 12,070 |
| 1961 | 52,283 | 689,967 | 1961 | 2,629 | 148,172 |
| 1962 | 62,956 | 999,049 | 1962 | 36,573 | 275,288 |
| 1963 | 16,718 | 242,841 | 1963 | 64,100 | 725,387 |
| 1964 | 52,798 | 653,616 | 1964 | 48,616 | 507,208 |

[a]Includes manganese metal up to 30th June, 1945.
[b]Statistics not available prior to 1903.

MANGANESE PRODUCTION—QUEENSLAND
(Manganese Ore)

| Year | Gladstone District | | Gympie District | Rockhampton District | Cairns District | Stanthorpe District | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|
| | Mount Miller etc. | | Mary Valley | | Mount Martin | Bracker Creek etc. | | |
| | tons[a] | | tons | tons | tons | tons | tons | tons |
| 1894 | 140 | | — | — | — | — | — | 140 |
| 1895 | 343 | (297) | — | — | — | — | [b]12 | 355 |
| 1896 | 300 | (324) | — | — | — | — | — | 300 |
| 1897 | 300 | (941) | — | 97 | — | — | — | 397 |
| 1898 | 30 | (651) | — | 37 | — | — | — | 67 |
| 1899 | 735 | (477) | — | — | — | — | — | 735 |
| 1900 | 55 | (1,334) | — | 20 | — | — | — | 75 |
| 1901 | 218 | (798) | — | — | — | — | — | 218 |
| 1902 | 4,600 | (1,260) | — | — | — | — | — | 4,600 |
| 1903 | 1,320 | | — | — | — | — | — | 1,320 |
| 1904 | 830 | | — | — | — | — | — | 830 |
| 1905 | 1,517 | | | — | — | — | — | 1,517 |
| 1906 | 1,113 | | — | — | — | — | — | 1,113 |
| 1907 | 1,116 | | — | — | — | — | — | 1,116 |
| 1908 | 1,368 | | 13 | — | — | — | — | 1,381 |
| 1909 | 435 | | 168 | — | — | — | — | 603 |
| 1910 | 786 | | 6 | — | — | — | — | 792 |
| 1911 | 1,149 | | — | — | — | — | — | 1,149 |
| 1912 | 308 | | — | — | — | — | — | 308 |
| 1913 | 27 | | — | — | — | — | — | 27 |
| 1914 | 6 | | — | — | — | — | — | 6 |
| 1915 | 119 | | 81 | — | — | — | — | 200 |
| 1916 | 643 | | — | — | — | — | — | 643 |
| 1917 | 21 | | — | — | — | — | — | 21 |
| 1918 | 46 | | 1,042 | — | — | 211 | 7 | 1,306 |
| 1919 | — | | 20 | — | — | — | — | 20 |
| 1920 | 15 | | — | — | — | — | — | 15 |
| 1921 | — | | 833 | — | — | — | — | 833 |
| 1922 | — | | 67 | — | — | — | — | 67 |
| 1923 | — | | 34 | — | — | 40 | — | 74 |
| 1924–25 | — | | — | — | — | — | — | — |
| 1926 | — | | 20 | — | — | — | — | 20 |

[a]First column represents production recorded in Annual Reports, figures in brackets are actual yearly production based on Ball's Report 1904. There is a discrepancy of 639 tons. [b]Chillagoe District. [c]Cloncurry.

MANGANESE PRODUCTION—QUEENSLAND—*continued*
(Manganese Ore)

| Year | Gladstone District | Gympie District | Rock-hampton District | Cairns District | Stan-thorpe District | Miscel-laneous | Total |
|---|---|---|---|---|---|---|---|
| | Mount Miller etc. | Mary Valley | | Mount Martin | Bracker Creek etc. | | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1927 | 242 | — | — | — | — | — | 242 |
| 1928–36 | — | — | — | — | — | — | — |
| 1937 | — | 1,908 | — | — | — | — | 1,908 |
| 1938 | — | 708 | — | — | — | — | 708 |
| 1939 | — | — | — | — | — | — | — |
| 1940 | — | — | — | 381 | — | — | 381 |
| 1941 | — | — | — | 198 | 150 | — | 198 |
| 1942 | — | — | — | — | — | — | 150 |
| 1943 | — | 56 | — | — | — | — | 56 |
| 1944–8 | — | — | — | — | — | — | — |
| 1949 | — | 233 | — | — | — | — | 233 |
| 1950 | — | 571 | — | — | — | — | 571 |
| 1951–52 | — | — | — | — | — | — | — |
| 1953 | — | — | — | — | 43 | — | 43 |
| 1954 | — | 138 | — | — | — | — | 138 |
| 1955 | — | 78 | — | — | — | — | 78 |
| 1956 | — | 311 | — | — | — | — | 311 |
| 1957 | — | 1,239 | — | — | — | — | 1,239 |
| 1958 | 2,666 | 3,461 | — | — | — | [c]941 | 7,068 |
| 1959 | 3,336 | 6,135 | — | — | — | [c]195 | 9,666 |
| 1960 | 339 | 1,713 | — | — | — | [c]1,658 | 3,710 |
| 1961 | — | 43 | — | — | — | [c]2,422 | 2,465 |
| 1962 | — | — | — | — | — | [c]2,880 | 2,880 |
| 1963 | — | — | — | — | 150 | — | 150 |
| 1964 | — | — | — | — | 199 | — | 199 |
| Total | 24,123 | 18,878 | 154 | 579 | 793 | 8,115 | 52,642 |

[a]First column represents production recorded in Annual Reports, figures in brackets are actual yearly production based on Ball's Report 1904. There is a discrepancy of 639 tons. [b]Chillagoe District. [c]Cloncurry.

## MANGANESE PRODUCTION—NEW SOUTH WALES
(Manganese Ore)

| Year | Grenfell-Cootamundra | | | Rockley-Rylstone | | | Barraba-Tamworth | | | | | | | Deep-water | Miscel-laneous | Total[l] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Grenfell District | Parkes District | Coota-mundra District | Rockley District | Bath-urst District | Ryl-stone District | Barraba District | Manilla District | Tam-worth District | Bende-meer District | Wea-bonga District | Walcha District | Uralla District | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1884 | — | — | — | 200 | — | — | — | — | — | — | — | — | — | — | — | 200 |
| 1885–9 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1890 | — | — | — | 100 | — | — | — | — | — | — | — | — | — | — | — | 100 |
| 1891 | — | — | — | 138 | — | — | — | — | — | — | — | — | — | — | — | 138 |
| 1892 | — | — | — | 50 | — | — | — | — | — | — | — | — | — | — | — | 16 |
| 1893 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | — |
| 1894 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | 14 |
| 1895 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | 4 |
| 1896–7 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | — |
| 1898 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | 1 |
| 1899 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | — |
| 1900 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | [b]18 | 18 |
| 1901 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | 12 |
| 1902 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | — |
| 1903–5 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | — |
| 1906 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | 60 |
| 1907 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | 500 |
| 1908–14 | — | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | — |
| 1915 | 713 | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | 713 |
| 1916 | 1,924 | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | 1,924 |
| 1917 | 3,721 | — | — | *m* | — | — | — | — | — | — | — | — | — | — | — | 3,721 |
| 1918 | [e]4,993 | — | — | 950 | 43 | — | — | — | — | — | — | — | [a] | — | — | [h]6,512 |
| 1919 | 3,800 | 515 | [e]100 | 50 | 90 | — | — | — | 14 | — | — | — | 29 | — | [c]53 | 4,651 |
| 1920 | 2,411 | 100 | — | — | 20 | — | — | — | — | — | — | — | — | — | — | 2,531 |
| 1921 | 3,485 | — | — | — | — | — | — | — | — | — | — | — | — | — | [d]50 | [h]3,515 |
| 1922 | 2,317 | — | — | — | — | — | — | — | — | — | — | — | — | 31 | [d]50 | 2,398 |
| 1923 | 2,516 | 40 | — | — | — | — | — | — | — | — | — | — | — | — | — | 2,556 |
| 1924 | 3,149 | — | — | — | — | 1,118 | — | — | — | — | — | — | — | 120 | — | 4,387 |
| 1925 | 1,059 | — | — | — | — | — | — | — | — | — | — | — | — | 105 | — | 1,164 |
| 1926 | 1,007 | — | 30 | — | — | — | — | — | 73 | — | — | — | — | 150 | [d]30 | 1,290 |
| 1927 | 1,046 | — | — | — | — | — | — | — | 44 | — | — | — | — | 112 | — | 1,202 |
| 1928 | 137 | — | — | — | — | — | — | — | — | — | — | — | — | 30 | — | 167 |
| 1929 | 114 | — | — | 47 | — | — | — | — | 72 | — | — | — | — | — | — | 233 |
| 1930 | 75 | — | — | — | — | — | — | — | 20 | — | — | — | — | — | [f]30 | 125 |
| 1931 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

(Manganese Ore)

| Year | Grenfell-Cootamundra | | | Rockley-Rylstone | | | Barraba-Tamworth | | | | | | | Deep-water | Miscel-laneous | Total[l] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Grenfell District | Parkes District | Coota-mundra District | Rockley District | Bath-urst District | Ryl-stone District | Barraba District | Manilla District | Tam-worth District | Bende-meer District | Wea-bonga District | Walcha District | Uralla District | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1933 | 60 | — | — | 69 | — | — | — | — | — | — | — | — | — | — | — | 129 |
| 1934 | 20 | — | — | 20 | — | — | — | — | — | — | — | — | — | — | — | [h]103 |
| 1935 | [a] | — | — | [a] | — | — | [a] | — | — | — | 42 | — | — | [a] | — | 148 |
| 1936 | 44 | — | — | 4 | — | — | — | — | — | — | 18 | — | — | — | — | 72 |
| 1937 | 20 | — | 35 | 15 | — | — | — | — | — | — | — | — | — | — | [g]38 | 108 |
| 1938 | — | — | 34 | 10 | — | — | — | — | 100 | — | 10 | — | — | — | [j]70 | [h]218 |
| 1939 | — | 12 | — | 46 | — | — | — | — | 20 | — | 14 | — | — | — | [k]54 | 146 |
| 1940 | — | — | 15 | — | — | — | — | 465 | 144 | 163 | 160 | — | — | — | — | [h]1,008 |
| 1941 | — | — | — | 365 | — | — | 112 | 468 | 190 | 252 | — | — | 75 | — | — | 1,462 |
| 1942 | — | — | — | — | — | — | 404 | — | 148 | 223 | — | — | — | — | [k]5 | 780 |
| 1943 | — | — | — | — | — | — | 380 | 10 | 35 | — | 60 | 110 | 9 | — | — | 604 |
| 1944 | — | — | — | — | — | — | 161 | 7 | 244 | — | 58 | 300 | — | — | — | 770 |
| 1945 | — | — | — | — | — | — | 396 | — | 160 | — | — | 428 | — | — | — | 984 |
| 1946 | — | — | — | — | — | — | 318 | — | 491 | 34 | — | 542 | — | — | — | 1,385 |
| 1947 | — | — | — | — | — | — | 544 | — | 118 | — | — | 919 | — | — | [n]6 | 1,587 |
| 1948 | — | — | — | — | — | — | 565 | — | 10 | 30 | — | 947 | — | — | — | 1,552 |
| 1949 | — | — | — | — | — | — | 654 | — | 121 | 15 | — | 877 | — | — | [p]47 | 1,578 |
| 1950 | — | — | — | — | — | — | 832 | — | 49 | — | — | 1,218 | — | — | — | 2,099 |
| 1951 | — | — | — | — | — | — | 1,416 | — | — | — | — | 1,256 | — | — | [k]12 | 2,684 |
| 1952 | — | — | — | — | — | — | 960 | — | — | — | — | 1,052 | — | — | [d]12 | 2,024 |
| 1953 | — | — | — | — | — | — | 1,242 | — | — | — | — | 1,171 | — | — | [k]30 | 2,443 |
| 1954 | — | — | — | — | — | — | 877 | — | 123 | — | — | 604 | — | — | [k]12 | 1,616 |
| 1955 | — | — | 8 | — | — | — | 674 | — | 441 | — | — | 480 | — | — | [q]19 | 1,622 |
| 1956 | — | — | — | — | — | — | 406 | — | 748 | — | — | 346 | — | — | [k]13 | 1,513 |
| 1957 | — | — | — | — | — | — | 407 | — | 521 | 30 | — | 443 | — | — | [r]30 | 1,463 |
| 1958 | — | — | 23 | — | — | — | 396 | — | 386 | 119 | — | 591 | — | — | [s]342 | 1,858 |
| 1959 | — | — | 171 | — | — | — | 377 | — | 463 | — | — | 1,471 | — | — | [t]96 | 2,578 |
| 1960 | — | — | 25 | — | — | — | 245 | 14 | 144 | — | — | 1,021 | — | — | [u]130 | 1,579 |
| 1961 | — | — | — | — | — | — | 197 | — | 653 | — | — | — | — | — | [v]33 | 883 |
| 1962 | — | — | — | — | — | — | 86 | — | 15 | — | — | 434 | — | — | [v]48 | 583 |
| 1963 | — | — | — | — | — | — | — | — | — | — | — | 612 | — | — | [v]12 | 624 |
| 1964 | — | — | — | — | — | — | — | — | — | — | — | 336 | — | — | — | 336 |
| Total | 32,551 | 667 | 441 | 2,064 | 153 | 1,118 | 11,649 | 964 | 5,527 | 866 | 362 | 15,158 | 113 | 548 | 1,240 | 74,797 |

[a]Produced, quantity not stated. [b]Kempsey. [c]40 Cooma, 13 Fifield. [d]Gulgong. [f]Michelago. [g]19 Gundagai, 9.5 Taree, 10 Murwillumbah. [h]Not all accounted for in previous columns. [j]Dubbo. [k]Murwillumbah. [l]Based on exports 1884–1898. [m]Production not recorded. [n]Gundagai. [p]29 Gulgong, 18 Port Macquarie. [q]12 Murwillumbah, 7 Port Macquarie. [r]15 Murwillumbah, 15 Unknown. [s]36 Murwillumbah, 291 Port Macquarie, 15 Tringha. [t]12 Murwillumbah, 26 Mullumbimby, 13 Port Macquarie, 45 Broken Hill. [u]13 Murwillumbah, 117 Port Macquarie. [v]Port Macquarie.

## MANGANESE PRODUCTION—SOUTH AUSTRALIA
(Manganese Ore)

| Year | Pernatty Lagoon | Carrieton District | | | | | Blinman | Martin Well and Tooth's Nob | Edeowie | Hundred Ketchowla | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Hundred Coonatto | Hundred Moockra | Hundred Yanyarrie | Hundred Bendleby | Hundreds Kanyacka and Cudlamudla | | | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1882 | — | | | | | | | | | | | 13 |
| 1883 | — | | | | | | | | | | | 33 |
| 1884 | — | | | | | | | | | | | 5 |
| 1885 | — | | | | | | | | | | | 13 |
| 1886 | — | | | | | | | | | | | 1,55 |
| 1887 | — | | | | | | | | | | | 1,45 |
| 1888 | — | | | | | | | | | | | 1,02 |
| 1889 | — | | | | | | | | | | | 1,59 |
| 1890 | — | | | | | | | | | | | 2,76 |
| 1891 | — | | | | | | | | | | | 84 |
| 1892 | — | Dissection not available. Total production 1882–1902, 13,492 tons mainly from Carrieton District | | | | | | | | | | 70 |
| 1893 | — | | | | | | | | | | | 2,42 |
| 1894 | — | | | | | | | | | | | 17 |
| 1895 | — | | | | | | | | | | | 4 |
| 1896–8 | — | | | | | | | | | | | — |
| 1899 | — | | | | | | | | | | | 10 |
| 1900 | — | | | | | | | | | | | — |
| 1901 | — | | | | | | | | | | | 13 |
| 1902 | — | | | | | | | | | | | 1 |
| 1903–14 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1915 | 100 | — | — | — | — | — | — | — | 150 | — | — | 25 |
| 1916 | 544 | — | — | — | — | — | — | — | — | — | — | 54 |
| 1917 | 251 | — | — | — | — | — | — | — | 13 | — | — | 26 |
| 1918 | 889 | — | 44 | — | — | 5 | — | — | 142 | — | — | 1,08 |
| 1919 | 298 | — | — | — | — | — | — | — | — | — | — | 29 |
| 1920 | 514 | — | — | — | — | — | — | — | — | — | — | 51 |
| 1921 | 1,596 | — | — | — | — | — | — | — | — | — | — | 1,59 |
| 1922 | 639 | — | — | — | — | — | — | — | — | — | — | 63 |
| 1923 | 168 | — | — | — | — | — | — | — | — | — | — | 16 |
| 1924 | 316 | — | — | — | — | — | — | — | — | — | — | 31 |
| 1925–30 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1931 | 13 | — | — | — | — | — | — | — | — | — | — | 1 |
| 1932 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1933 | 2 | — | — | 18 | — | — | — | — | — | — | — | 2 |
| 1934 | 2 | — | — | — | — | — | — | — | — | — | — | |
| 1935–8 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1939 | 7 | — | — | — | — | — | — | — | — | — | — | |
| 1940 | 6,543 | 554 | 95 | — | 1,710 | — | 1,568 | [a]32 | — | 154 | — | 10,65 |
| 1941 | 6,670 | 1,192 | 187 | 143 | 402 | 457 | 2,469 | [a]42 | — | 358 | [c]26 | 11,94 |
| 1942 | 8,300 | 44 | 60 | — | — | 40 | 772 | [b]111 | — | — | — | 9,32 |
| 1943 | 4,866 | — | — | — | — | — | 366 | [b]220 | — | — | [d]138 | 5,59 |
| 1944 | 577 | — | — | — | — | — | 76 | [b]547 | — | — | — | 1,20 |

[a]Tooth's Nob. [b]Martin Well. [c]Lake Gilles. [d]93 Hundred Hawker, 15 Hundred Miltalie, 30 Narinna Station.

MANGANESE PRODUCTION—SOUTH AUSTRALIA—*continued*
(Manganese Ore)

| Year | Pernatty Lagoon | Carrieton District | | | | | Blinman | Martin Well and Tooth's Nob | Edeowie | Hundred Ketchowla | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Hundred Coonatto | Hundred Moockra | Hundred Yanyarrie | Hundred Bendleby | Hundreds Kanyacka and Cudlamudla | | | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 45–6 | — | — | — | — | — | — | — | — | — | — | — | — |
| 47 | — | — | — | — | — | — | 180 | — | — | — | 9 | 189 |
| 48 | 250 | — | — | — | — | — | — | — | — | — | — | 250 |
| 49 | 1,587 | 225 | — | — | — | — | — | — | — | — | 44 | 1,856 |
| 50 | — | 183 | — | — | — | — | 30 | — | — | — | 24 | 237 |
| 51 | — | — | — | — | — | — | 27 | — | — | — | — | 27 |
| 52–9 | — | — | — | — | — | — | — | — | — | — | — | — |
| 60 | — | 25 | — | — | — | — | 44 | — | — | — | — | 69 |
| 61 | — | 119 | — | — | — | — | 176 | — | — | — | — | 295 |
| 62–64 | — | — | — | — | — | — | — | — | — | — | — | — |
| otal | 34,132 | 2,342 | 386 | 161 | 2,112 | 502 | 5,708 | 952 | 305 | 512 | 241 | 60,845 |

ooth's Nob. [b]Martin Well. [c]Lake Gilles. [d]93 Hundred Hawker, 15 Hundred Miltalie, 30 Narinna Station.

MANGANESE PRODUCTION—
WESTERN AUSTRALIA
(Manganese Ore)

| Year | Peak Hill Goldfield | Pilbara Goldfield | Total |
|---|---|---|---|
| | tons | tons | tons |
| 1922 | 18 | — | 18 |
| 1923 | — | — | — |
| 1924 | 59 | — | 59 |
| 1925–1947 | — | — | — |
| 1948 | 1,600 | — | [a]1,645 |
| 1949 | 9,420 | — | 9,420 |
| 1950 | 11,962 | — | 11,962 |
| 1951 | 5,257 | — | 5,257 |
| 1952 | 5,045 | — | 5,045 |
| 1953 | 21,648 | 4,800 | 30,457 |
| 1954 | 22,266 | 4,182 | 26,448 |
| 1955 | 36,600 | 7,594 | 44,194 |
| 1956 | 48,709 | 7,525 | 56,234 |
| 1957 | 52,211 | 21,068 | 73,279 |
| 1958 | 29,487 | 18,097 | 47,584 |
| 1959 | 35,948 | 39,785 | 75,733 |
| 1960 | 6,341 | 47,669 | 54,010 |
| 1961 | 14,250 | 70,023 | 84,273 |
| 1962 | 269 | 67,602 | 67,871 |
| 1963 | 1,652 | 33,156 | 34,808 |
| 1964 | 902 | 59,280 | 60,182 |
| Total | 303,644 | 380,781 | 688,479 |

[a]Includes 20 tons from Mt. Margaret Goldfield and 25 tons from sundry leases.

# MERCURY

Mercury Production—Australia .. .. .. .. .. .. .. 288

Mercury—Exports—Australia .. .. .. .. .. .. .. 288

Mercury—Imports—Australia .. .. .. .. .. .. .. 289

Mercury Production—Queensland .. .. .. .. .. .. 289

Mercury Production—New South Wales .. .. .. .. .. .. 290

## MERCURY PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | Total |
|---|---|---|---|
| | lb. | lb. | lb. |
| 1869 | — | 459 | 459 |
| Prior to— | | | |
| 1892 | 9,184 | — | 9,184 |
| 1903 | — | 1,010 | 1,010 |
| 1911 | — | 150 | 150 |
| 1914 | — | n.r. | n.r. |
| 1915 | — | 1,288 | 1,288 |
| 1916 | — | [a]900 | 900 |
| 1931 | 817 | — | 817 |
| 1932 | 1,989 | — | 1,989 |
| 1933 | 46 | — | 46 |
| 1934 | 167 | — | 167 |
| 1935 | 1,299 | — | 1,299 |
| 1936 | 5,911 | — | 5,911 |
| 1937 | 710 | — | 710 |
| 1938 | — | — | — |
| 1939 | 249 | — | 249 |
| 1940 | 2,782 | 17 | 2,799 |
| 1941 | 2,608 | 88 | 2,696 |
| 1942 | 1,157 | 8 | 1,165 |
| 1943 | 1,150 | — | 1,150 |
| 1944 | 876 | — | 876 |
| 1945 | 245 | — | 245 |
| 1946–64 | — | — | — |
| Total | 29,190 | 3,920 | 33,110 |

[a]Product of 200 tons ore—estimated.

## MERCURY—EXPORTS[a]—AUSTRALIA

| Year | lb. | £, f.o.b. | Year | lb. | £, f.o.b |
|---|---|---|---|---|---|
| 1903 | 382 | 49 | 1928–29 | 300 | 11 |
| 1904 | 1,610 | 198 | 1929–30 | 289 | 10 |
| 1905 | 1,275 | 155 | 1930–31 | 322 | 13 |
| 1906 | 2,855 | 320 | 1931–32 | 520 | 22 |
| 1907 | 1,838 | 177 | 1932–33 | 701 | 13 |
| 1908 | 902 | 101 | 1933–34 | 2,179 | 47 |
| 1909 | 1,435 | 194 | 1934–35 | 2,787 | 50 |
| 1910 | 980 | 142 | 1935–36 | 650 | 18 |
| 1911 | 1,436 | 196 | 1936–37 | 4,846 | 1,11 |
| 1912 | 1,410 | 190 | 1937–38 | 4,847 | 1,52 |
| 1913 | 990 | 134 | 1938–39 | 1,808 | 55 |
| 1914 | n.a. | n.a. | 1939–40 | 894 | 57 |
| 1914–15 | 600 | 100 | 1940–41 | 836 | 96 |
| | | | 1941–42 | 474 | 40 |
| 1915–16 | 647 | 200 | 1942–43 | 606 | 80 |
| 1916–17 | 572 | 169 | 1943–44 | — | — |
| 1917–18 | 26 | 9 | 1944–45 | 21 | 2 |
| 1918–19 | 356 | 120 | | | |
| 1919–20 | 42 | 10 | 1945–46 | 22 | 2 |
| | | | 1947 | 5,923 | 2,75 |
| 1920–21 | 255 | 49 | 1948 | 8,133 | 2,74 |
| 1921–22 | 159 | 32 | 1949 | 988 | 29 |
| 1922–23 | 239 | 49 | | | |
| 1923–24 | 351 | 65 | 1950 | 477 | 40 |
| 1924–25 | 2 | 1 | 1951 | 3,247 | 2,00 |
| | | | 1952 | 779 | 1,24 |
| 1925–26 | — | — | 1953 | 884 | 1,29 |
| 1926–27 | 75 | 28 | 1954–64 | n.r.s. | n.r.s |
| 1927–28 | 487 | 166 | | | |

[a]Statistics not available prior to 1903.

MERCURY—IMPORTS[a]—AUSTRALIA

| Year | lb. | £, f.o.b. | Year | lb. | £, f.o.b. |
|---|---|---|---|---|---|
| 03 | 193,029 | 19,735 | 1933–34 | 50,104 | 7,847 |
| 04 | 204,277 | 20,759 | 1934–35 | 51,518 | 9,641 |
| 05 | 181,170 | 17,269 | 1935–36 | 63,578 | 12,411 |
| 06 | 173,488 | 15,425 | 1936–37 | 104,977 | 23,645 |
| 07 | 131,184 | 11,069 | 1937–38 | 59,541 | 13,062 |
| 08 | 124,305 | 12,964 | 1938–39 | 76,424 | 19,055 |
| 09 | 128,716 | 13,149 | 1939–40 | 93,637 | 50,714 |
| 10 | 126,964 | 13,874 | 1940–41 | 90,257 | 78,332 |
| 11 | 93,400 | 9,520 | 1941–42 | 110,954 | 90,997 |
| 12 | 116,407 | 11,821 | 1942–43 | 100,569 | 83,215 |
| 13 | 101,472 | 9,142 | 1943–44 | 52,326 | 45,236 |
| 14 | n.a. | n.a. | 1944–45 | 35,729 | 21,267 |
| 14–15 | 52,947 | 6,316 | 1945–46 | 13,935 | 7,498 |
| | | | 1947 | 5,923 | 2,759 |
| 15–16 | 75,097 | 15,006 | 1948 | 105,203 | 27,121 |
| 16–17 | 36,150 | 7,932 | 1949 | 44,726 | 13,810 |
| 17–18 | 71,027 | 19,319 | | | |
| 18–19 | 26,490 | 7,537 | 1950 | 61,858 | 23,669 |
| 19–20 | 51,972 | 13,599 | 1951 | 99,825 | 147,530 |
| | | | 1952 | 46,192 | 59,335 |
| 20–21 | 52,248 | 12,569 | 1953 | 45,777 | 50,375 |
| 21–22 | 21,261 | 3,006 | 1954 | 133,218 | 133,089 |
| 22–23 | 55,165 | 7,893 | | | |
| 23–24 | 31,820 | 4,199 | 1955 | 82,470 | 163,614 |
| 24–25 | 19,373 | 2,992 | 1956 | 68,441 | 125,625 |
| | | | 1957 | 55,738 | 90,693 |
| 25–26 | 23,429 | 4,117 | 1958 | 65,398 | 87,269 |
| 26–27 | 35,973 | 7,050 | 1959 | 109,778 | 135,593 |
| 27–28 | 27,523 | 7,736 | | | |
| 28–29 | 20,901 | 5,773 | 1960 | 149,532 | 172,614 |
| 29–30 | 24,796 | 6,933 | 1961 | 120,139 | 126,529 |
| | | | 1962 | 86,829 | 94,070 |
| 30–31 | 11,613 | 3,311 | 1963 | 135,866 | 133,518 |
| 31–32 | 35,303 | 10,496 | 1964 | 131,651 | 186,566 |
| 32–33 | 46,395 | 8,037 | | | |

[a]Statistics not available prior to 1903.

MERCURY PRODUCTION—QUEENSLAND

| Year | Kilkivan District Kilkivan | Nanango District Monsildale | Total |
|---|---|---|---|
| | lb. | lb. | lb. |
| Prior to 1892 | 9,184 | — | 9,184 |
| 1931 | 817 | — | 817 |
| 1932 | 1,989 | — | 1,989 |
| 1933 | 46 | — | 46 |
| 1934 | 167 | — | 167 |
| 1935 | 1,299 | — | 1,299 |
| 1936 | 5,911 | — | 5,911 |
| 1937 | 610 | 100 | 710 |
| 1938 | — | — | — |
| 1939 | 249 | — | 249 |
| 1940 | 2,765 | 17 | 2,782 |
| 1941 | 2,608 | — | 2,608 |
| 1942 | 1,157 | — | 1,157 |
| 1943 | 1,150 | — | 1,150 |
| 1944 | 876 | — | 876 |
| 1945 | 245 | — | 245 |
| 1946–64 | — | — | — |
| Total | 29,073 | 117 | 29,190 |

MERCURY PRODUCTION—NEW SOUTH WALES[a]

| Year | Clarence River District | | | | Rylstone District | Total |
|---|---|---|---|---|---|---|
| | Yulgilbar | Pulganbar | Lionsville | Tabulam | Cudgegong | |
| | lb. | lb. | lb. | lb. | lb. | lb. |
| 1869 | — | — | — | — | 459 | 459 |
| 1903 | 1,010 | — | — | — | — | 1,010 |
| 1911 | — | [b] | — | — | — | [c]150 |
| 1914 | [d] | — | — | — | — | [d] |
| 1915 | — | [f]1,288 | — | — | — | 1,288 |
| 1916 | [g]900 | — | — | — | — | 900 |
| 1940 | — | — | 17 | — | — | 17 |
| 1941 | — | — | — | 88 | — | 88 |
| 1942 | — | — | — | 8 | — | 8 |
| 1943–64 | — | — | — | — | — | — |
| Total | 1,910 | 1,288 | 17 | 96 | 459 | 3,920 |

[a]Incomplete table showing production so far as recorded. [b]Not known. [c]300 tons low grade, 50 tons high grade ore raised. [d]170 tons ore treated; quantity mercury not known. [f]Ore raised in 1913. [g]Product of 200 tons ore; estimated.

# MICA

Mica Production—Australia—(Muscovite, commercial or blocks) .. .. 292

Mica Production—Australia—(Muscovite, crude and scrap) .. .. .. 293

Mica Production—Australia—(Damourite, lepidolite, phlogopite, vermiculite) 294

Mica—Exports—Australia .. .. .. .. .. .. .. .. 295

Mica—Imports—Australia .. .. .. .. .. .. .. .. 295

Mica Production—Queensland .. .. .. .. .. .. .. 296

Mica Production—New South Wales .. .. .. .. .. .. 296

Mica Production—South Australia .. .. .. .. .. .. 297

Mica Production—Western Australia .. .. .. .. .. .. 298

Mica Production—Northern Territory .. .. .. .. .. .. 299

Vermiculite Production—Western Australia .. .. .. .. .. 300

## MICA PRODUCTION—AUSTRALIA
(Muscovite, commercial or blocks)

| Year | Queensland | Western Australia | Northern Territory | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1892 | — | — | 4·00 | 4·00 |
| 1893 | — | — | 0·30 | 0·30 |
| 1894 | — | — | 13·95 | 13·95 |
| 1895 | — | — | 6·20 | 6·20 |
| 1896 | — | — | 1·60 | 1·60 |
| 1897 | — | — | 6·41 | 6·41 |
| 1898–1907 | — | — | — | — |
| 1908 | — | — | — | — |
| 1909–13 | — | — | — | — |
| 1914 | — | 4·00 | — | 4·00 |
| 1915 | — | — | [e]0·48 | 0·48 |
| 1916 | — | — | — | — |
| 1917 | — | — | — | — |
| 1918 | — | — | — | — |
| 1919 | — | 1·00 | [e]0·17 | 1·17 |
| 1920 | — | — | 0·54 | 0·54 |
| 1921 | — | — | 0·20 | 0·20 |
| 1922 | 0·075 | — | 1·85 | 1·92 |
| 1923 | — | — | 2·07 | 2·07 |
| 1924 | — | — | 2·36 | 2·36 |
| 1925 | 0·50 | — | 3·32 | 3·82 |
| 1926 | — | 4·00 | 2·76 | 6·76 |
| 1927 | — | 4·00 | 1·60 | 5·60 |
| 1928 | — | — | 11·20 | 11·20 |
| 1929 | — | — | 20·02 | 20·02 |
| 1930 | — | — | 38·94 | 38·94 |
| 1931 | — | — | 23·94 | 23·94 |
| 1932 | — | — | 20·84 | 20·84 |
| 1933 | — | — | 41·15 | 41·15 |
| 1934 | — | — | 30·00 | 30·00 |
| 1935 | — | — | 59·65 | 59· |
| 1936 | — | — | 27·72 | 27· |
| 1937 | — | 0·64 | 30·70 | 31· |
| 1938 | — | — | 50·75 | 50· |
| 1939 | — | 0·19 | 31·71 | 31· |
| 1940 | — | 0·31 | 34·77 | 35· |
| 1941 | — | — | 38·18 | 38· |
| 1942 | — | 0·17 | 36·32 | 36· |
| 1943 | — | 6·20 | 17·30 | 23· |
| 1944 | — | 3·74 | 20·99 | 24· |
| 1945 | — | — | 31·44 | 31· |
| 1946 | — | — | 22·77 | 22· |
| 1947 | — | — | 41·48 | 41· |
| 1948 | — | — | 39·69 | 39· |
| 1949 | — | 0·56 | 28·78 | 29· |
| 1950 | — | — | 30·25 | 30· |
| 1951 | — | — | 21·44 | 21· |
| 1952 | — | — | 32·11 | 32· |
| 1953 | — | — | 31·56 | 31· |
| 1954 | — | — | 37·78 | 37· |
| 1955 | — | — | 25·29 | 25· |
| 1956 | — | — | 12·87 | 12· |
| 1957 | — | — | 16·39 | 16· |
| 1958 | — | — | 18·96 | 18· |
| 1959 | — | — | 19·94 | 19· |
| 1960 | — | — | 4·24 | 4· |
| 1961–64 | — | — | — | |
| Total | 0·575 | 24·81 | 996·98 | 1,022· |

## MICA PRODUCTION—AUSTRALIA
(Muscovite, crude and scrap)

| Year | Queensland | | New South Wales | South Australia | Western Australia | Northern Territory | | Total | |
|---|---|---|---|---|---|---|---|---|---|
| | Crude | Scrap | Scrap | Crude | Crude | Crude | Scrap | Crude | Scrap |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1908 | — | — | — | — | n.a. | — | — | n.a. | — |
| 1909–16 | — | — | — | — | n.a. | — | — | n.a. | — |
| 1917 | — | — | — | 37·50 | — | — | — | 37·50 | — |
| 1918–21 | — | — | — | — | — | — | — | — | — |
| 1922 | — | — | — | — | 2·00 | — | — | 2·00 | — |
| 1923–24 | — | — | — | — | — | — | — | — | — |
| 1925 | — | — | n.a. | — | — | — | — | — | n.a. |
| 1926 | — | — | — | — | — | 4·56 | — | 4·56 | — |
| 1927 | 1·00 | — | — | — | — | — | — | 1·00 | — |
| 1928 | — | — | — | 2·00 | — | — | — | 2·00 | — |
| 1929–30 | — | — | — | — | — | — | — | — | — |
| 1931 | — | — | — | 2·00 | — | — | — | 2·00 | — |
| 1932 | — | — | — | — | — | — | — | — | — |
| 1933 | — | — | 40·00 | — | — | — | — | — | 40·00 |
| 1934 | — | — | 90·00 | — | — | — | — | — | 90·00 |
| 1935–6 | — | — | — | — | — | — | — | — | — |
| 1937 | — | — | — | 42·00 | — | — | — | 42·00 | — |
| 1938–9 | — | — | — | — | — | — | — | — | — |
| 1940 | — | — | — | 4·00 | 0·76 | — | — | 4·76 | — |
| 1941 | — | — | — | — | 2·75 | — | — | 2·75 | — |
| 1942 | 0·10 | — | — | — | — | — | — | 0·10 | — |
| 1943 | — | — | — | — | — | — | — | — | — |
| 1944 | — | — | 4·35 | 1·00 | — | 6·82 | — | 7·82 | 4·35 |
| 1945 | — | — | 5·91 | — | — | 2·39 | — | 2·39 | 5·91 |
| 1946 | — | — | 1·45 | — | — | 33·39 | — | 33·39 | 1·45 |
| 1947 | — | — | 3·35 | — | — | 6·92 | — | 6·92 | 3·35 |
| 1948 | — | — | 2·73 | — | — | 16·10 | — | 16·10 | 2·73 |
| 1949 | — | — | 3·00 | — | — | — | — | — | 3·00 |
| 1950 | — | — | — | — | — | — | 22·85 | — | 22·85 |
| 1951 | — | — | — | — | — | 1·18 | 37·00 | 1·18 | 37·00 |
| 1952–3 | — | — | — | — | — | — | — | — | — |
| 1954 | — | — | 7·00 | — | — | — | 29·10 | — | 36·10 |
| 1955 | — | — | 9·00 | — | — | — | — | — | 9·00 |
| 1956 | — | — | — | — | — | — | — | — | — |
| 1957 | — | — | — | — | — | 18·13 | — | 18·13 | — |
| 1958 | — | 9·70 | 7·00 | — | — | 4·95 | 16·00 | 4·95 | 32·70 |
| 1959 | — | — | — | — | — | — | 63·00 | — | 63·00 |
| 1960 | — | — | — | — | — | — | 291·18 | — | 291·18 |
| 1961 | — | — | — | — | — | — | 83·00 | — | 83·00 |
| 1962 | — | — | — | — | — | — | — | — | — |
| 1963 | — | — | — | — | — | — | 9·60 | — | 9·60 |
| 1964 | — | — | — | — | — | — | 14·30 | — | 14·30 |
| Total | 1·10 | 9·70 | 173·79 | 88·50 | 5·51 | 94·44 | 566·03 | 189·55 | 749·52 |

## MICA PRODUCTION—AUSTRALIA
(Damourite, Lepidolite, Phlogopite, Vermiculite)

| Year | South Australia | Western Australia | | Northern Territory | Total | | | |
|---|---|---|---|---|---|---|---|---|
| | Damourite | Lepidolite | Vermiculite | Phlogopite Commercial | Damourite | Lepidolite | Vermiculite | Phlogopite |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1892 | — | † | — | — | — | † | — | — |
| 1893 | — | † | — | — | — | † | — | — |
| 1894 | — | — | — | — | — | — | — | — |
| 1895 | — | † | — | — | — | † | — | — |
| 1896 | — | — | — | — | — | — | — | — |
| 1897 | — | † | — | — | — | † | — | — |
| 1898 | — | — | — | — | — | — | — | — |
| 1899 | — | † | — | — | — | † | — | — |
| 1900 | — | † | — | — | — | † | — | — |
| 1901–37 | — | — | — | — | — | — | — | — |
| 1938 | 22 | — | — | — | 22 | — | — | — |
| 1939 | 55 | — | 30·0 | — | 55 | — | 30·0 | — |
| 1940 | 65 | — | 109·0 | — | 65 | — | 109·0 | — |
| 1941 | 100 | — | 160·0 | — | 100 | — | 160·0 | — |
| 1942 | 165 | — | 178·4 | 1·35 | 165 | — | 178·4 | 1·35 |
| 1943 | 61 | — | 362·8 | 2·08 | 61 | — | 362·8 | 2·08 |
| 1944 | 105 | — | 123·0 | 0·09 | 105 | — | 123·0 | 0·09 |
| 1945 | 94 | — | 59·0 | — | 94 | — | 59·0 | — |
| 1946 | 203 | — | 203·5 | — | 203 | — | 203·5 | — |
| 1947 | 314 | — | 82·0 | — | 314 | — | 82·0 | — |
| 1948 | 362 | — | 151·0 | — | 362 | — | 151·0 | — |
| 1949 | 692 | — | 162·0 | — | 692 | — | 162·0 | — |
| 1950 | 696 | — | 120·0 | — | 696 | — | 120·0 | — |
| 1951 | 505 | — | 55·0 | — | 505 | — | 55·0 | — |
| 1952 | 461 | — | 62·0 | — | 461 | — | 62·0 | — |
| 1953 | 445 | — | 29·0 | — | 445 | — | 29·0 | — |
| 1954 | 514 | — | — | — | 514 | — | — | — |
| 1955 | 436 | — | — | — | 436 | — | — | — |
| 1956 | 472 | — | 1·0 | — | 472 | — | 1·0 | — |
| 1957 | 650 | — | — | — | 650 | — | — | — |
| 1958 | 482 | — | — | — | 482 | — | — | — |
| 1959 | 491 | — | — | — | 491 | — | — | — |
| 1960 | 559 | — | — | — | 559 | — | — | — |
| 1961 | 508 | — | — | — | 508 | — | — | — |
| 1962 | 485 | — | — | — | 485 | — | — | — |
| 1963 | 492 | — | — | — | 492 | — | — | — |
| 1964 | 567 | — | — | — | 567 | — | — | — |
| Total | 10,001 | † | 1,887·7 | 3·52 | 10,001 | † | 1,887·7 | 3·52 |

MICA[a]—EXPORTS—AUSTRALIA

| Year | lb. | £, f.o.b. |
|---|---|---|
| 1949 | 3,784 | 1,330 |
| 1950 | 3,638 | 1,655 |
| 1951 | 11,128 | 4,405 |
| 1952 | 10,205 | 472 |
| 1953 | 14,382 | 1,387 |
| 1954 | 18,808 | 6,238 |
| 1955 | 7,784 | 4,077 |
| 1956 | 6,490 | 7,231 |
| 1957 | 9,177 | 5,693 |
| 1958 | 78,748 | 11,933 |
| 1959 | 90,248 | 20,294 |
| 1960 | 43,898 | 9,545 |
| 1961 | 112,262 | 33,645 |
| 1962 | 82,406 | 13,918 |
| 1963 | 64,521 | 9,193 |
| 1964 | 73,926 | 10,512 |

[a]Crude or simply prepared.

MICA-IMPORTS—AUSTRALIA

| Year | Trimmed, block sheet splittings | | Ground or pulverised | | Crude, incl. scrap | |
|---|---|---|---|---|---|---|
| | lb. | £, f.o.b. | lb. | £, f.o.b. | lb. | £, f.o.b. |
| 1949 | 64,831 | 18,719 | 22,183 | 2,536 | 256,609 | 16,316 |
| 1950 | 109,520 | 54,379 | 23,880 | 1,298 | 261,303 | 20,053 |
| 1951 | 84,028 | 95,687 | 13,622 | 1,910 | 416,818 | 41,077 |
| 1952 | 36,386 | 33,275 | 25,202 | 1,678 | 85,504 | 11,334 |
| 1953 | 102,186 | 28,264 | 10,062 | 413 | 89,700 | 327 |

| | Block—condenser film—not cut or stamped | | Cut or stamped | | Splittings | | Ground or pulverized | | Scrap | |
|---|---|---|---|---|---|---|---|---|---|---|
| | lb. | £, f.o.b. | lb. | £, f.o.b. | lb. | £, f.o.b. | lb. | £, f.o.b. | lb. | £, f.o.b. |
| 1954 | 64,076 | 66,650 | 1,752 | 2,382 | 119,850 | 16,588 | 30,097 | 1,575 | 454,749 | 1,602 |
| 1955 | 39,735 | 44,740 | 5,693 | 6,423 | 245,710 | 27,859 | 107,103 | 3,356 | 221,160 | 1,643 |
| 1956 | 16,344 | 13,054 | 1,599 | 2,856 | 121,922 | 17,263 | 81,702 | 4,257 | 204,170 | 619 |
| 1957 | 18,859 | 21,158 | 2,373 | 3,176 | 182,629 | 21,809 | 115,653 | 5,441 | 325,360 | 1,278 |
| 1958 | 21,368 | 20,399 | 2,594 | 3,836 | 149,450 | 23,865 | 217,104 | 8,447 | 558,940 | 3,123 |
| 1959 | 24,228 | 24,780 | 2,775 | 4,051 | 166,975 | 25,187 | 484,996 | 2,745 | 374,461 | 10,792 |
| 1960 | 44,203 | 46,974 | 2,589 | 2,450 | 229,775 | 32,792 | 802,320 | 4,473 | 341,042 | 14,235 |
| 1961 | 22,660 | 23,713 | 3,837 | 4,249 | 226,970 | 29,200 | 302,400 | 2,677 | 282,348 | 9,407 |
| 1962 | 30,038 | 35,361 | 3,343 | 5,215 | 128,255 | 19,464 | 490,512 | 18,991 | 730,170 | 4,203 |
| 1963 | 70,861 | 53,339 | 1,424 | 2,140 | 197,851 | 31,613 | 583,692 | 19,874 | 645,250 | 5,571 |
| 1964 | 82,686 | 68,444 | 4,370 | 4,584 | 159,118 | 35,028 | 702,072 | 22,252 | 1,057,462 | 7,108 |

MICA PRODUCTION—QUEENSLAND

| Year | Mica Creek, Mount Isa | | Chillagoe District | Total | |
|---|---|---|---|---|---|
| | Muscovite | | Muscovite | Muscovite | |
| | Crude | Commercial | Crude | Crude | Commercial |
| | tons | tons | tons | tons | tons |
| 1922 | — | ·075 | — | — | ·075 |
| 1923–24 | — | — | — | — | — |
| 1925 | — | ·50 | — | — | ·50 |
| 1926 | — | — | — | — | — |
| 1927 | 1·0 | — | — | 1·00 | — |
| 1928–41 | — | — | — | — | — |
| 1942 | — | — | 0·10 | 0·10 | — |
| 1943 | — | — | — | — | — |
| 1944 | — | — | — | — | — |
| 1945–57 | — | — | — | — | — |
| 1958 | — | — | [a]0·97 | — | — |
| 1959–64 | — | — | — | — | — |
| Total | 1·0 | 0·575 | 1·07 | 1·1 | 0·575 |

[a] Scrap mica.

MICA PRODUCTION—NEW SOUT WALES

| Year | Broken Hill Distr |
|---|---|
| | Muscovite |
| | Crude |
| | tons |
| 1925 | n.a. |
| 1926–32 | — |
| 1933 | 40·00 |
| 1934 | 90·00 |
| 1935–43 | — |
| 1944 | 4·35 |
| 1945 | 5·91 |
| 1946 | 1·45 |
| 1947 | 3·35 |
| 1948 | 2·73 |
| 1949 | 3·00 |
| 1950–3 | — |
| 1954 | 7·00 |
| 1955 | 9·00 |
| 1956–7 | — |
| 1958 | 7·00 |
| 1959–64 | — |
| Total | 173·79 |

## MICA PRODUCTION—SOUTH AUSTRALIA

| Year | Hd. Barossa | | Hd. Para Wirra | Hd. Myponga | Total | |
|---|---|---|---|---|---|---|
| | Muscovite | Damourite | Muscovite | Muscovite | Muscovite | Damourite |
| | Crude | Crude | Crude | Crude | Crude | Crude |
| | tons | tons | tons | tons | tons | tons |
| 1917 | — | — | 37·5 | — | 37·5 | — |
| 1918–27 | — | — | — | — | — | — |
| 1928 | — | — | — | 2 | 2·0 | — |
| 1929–30 | — | — | — | — | — | — |
| 1931 | — | — | 2·0 | — | 2·0 | — |
| 1932–36 | — | — | — | — | — | — |
| 1937 | 42 | — | — | — | 42·0 | — |
| 1938 | — | 22 | — | — | — | 22 |
| 1939 | — | 55 | — | — | — | 55 |
| 1940 | — | 65 | 4·0 | — | 4·0 | 65 |
| 1941 | — | 100 | — | — | — | 100 |
| 1942 | — | 165 | — | — | — | 165 |
| 1943 | — | 61 | — | — | — | 61 |
| 1944 | 1 | 105 | — | — | 1·0 | 105 |
| 1945 | — | 94 | — | — | — | 94 |
| 1946 | — | 203 | — | — | — | 203 |
| 1947 | — | 314 | — | — | — | 314 |
| 1948 | — | 362 | — | — | — | 362 |
| 1949 | — | 692 | — | — | — | 692 |
| 1950 | — | 696 | — | — | — | 696 |
| 1951 | — | 505 | — | — | — | 505 |
| 1952 | — | 461 | — | — | — | 461 |
| 1953 | — | 445 | — | — | — | 445 |
| 1954 | — | 514 | — | — | — | 514 |
| 1955 | — | 436 | — | — | — | 436 |
| 1956 | — | 472 | — | — | — | 472 |
| 1957 | — | 650 | — | — | — | 650 |
| 1958 | — | 482 | — | — | — | 482 |
| 1959 | — | 491 | — | — | — | 491 |
| 1960 | — | 559 | — | — | — | 559 |
| 1961 | — | 508 | — | — | — | 508 |
| 1962 | — | 485 | — | — | — | 485 |
| 1963 | — | 492 | — | — | — | 492 |
| 1964 | — | 567 | — | — | — | 567 |
| Total | 43 | 10,001 | 43·5 | 2 | 88·5 | 10,001 |

## MICA PRODUCTION—WESTERN AUSTRALIA

| Year | Londonderry | Yinnietharra | | Mullalyup | | Total | | |
|---|---|---|---|---|---|---|---|---|
| | Lepidolite | Muscovite | | Muscovite | | Muscovite | | Lepidolite |
| | Crude | Crude | Commercial | Crude | Commercial | Crude | Commercial | Crude |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1892 | n.r. | — | — | — | — | — | — | n.r. |
| 1893 | n.r. | — | — | — | — | — | — | n.r. |
| 1894 | — | — | — | — | — | — | — | — |
| 1895 | n.r. | — | — | — | — | — | — | n.r. |
| 1896 | — | — | — | — | — | — | — | — |
| 1897 | n.r. | — | — | — | — | — | — | n.r. |
| 1898 | — | — | — | — | — | — | — | — |
| 1899 | n.r. | — | — | — | — | — | — | n.r. |
| 1900 | n.r. | — | — | — | — | — | — | n.r. |
| 1901–07 | — | — | — | — | — | — | — | — |
| 1908 | — | — | — | — | — | n.r. | — | — |
| 1909–13 | — | — | — | — | — | — | — | — |
| 1914 | — | — | 4·00 | — | — | — | 4·00 | — |
| 1915 | — | — | — | — | — | n.r. | — | — |
| 1916 | — | — | — | — | — | n.r. | — | — |
| 1917-18 | — | — | — | — | — | — | — | — |
| 1919 | — | — | 1·00 | — | — | — | 1·00 | — |
| 1920 | — | — | n.r. | — | — | — | n.r. | — |
| 1921 | — | — | — | — | — | — | — | — |
| 1922 | — | 2 | — | — | — | 2·00 | — | — |
| 1923–25 | — | — | — | — | — | — | — | — |
| 1926 | — | — | 4·00 | — | — | — | 4·00 | — |
| 1927 | — | — | 4·00 | — | — | — | 4·00 | — |
| 1928–36 | — | — | — | — | — | — | — | — |
| 1937 | — | — | 0·64 | — | — | — | 0·64 | — |
| 1938 | — | — | — | — | — | — | — | — |
| 1939 | — | — | 0·08 | — | 0·11 | — | 0·19 | — |
| 1940 | — | — | 0·31 | 0·76 | — | 0·76 | 0·31 | — |
| 1941 | — | — | — | 2·75 | — | 2·75 | — | — |
| 1942 | — | — | 0·17 | — | — | — | 0·17 | — |
| 1943 | — | — | 6·20 | — | — | — | 6·20 | — |
| 1944 | — | — | 3·74 | — | — | — | 3·74 | — |
| 1945–48 | — | — | — | — | — | — | — | — |
| 1949 | — | — | [a]0·56 | — | — | — | — | — |
| 1950–64 | — | — | — | — | — | — | — | — |
| Total | n.r. | 2 | [i]24·70 | 3·51 | 0·11 | 5·51 | [i]24·81 | n.r. |

[a] Includes 0·01 tons (31·25 lb.) mica from West Kimberley Goldfield.

## MICA PRODUCTION—NORTHERN TERRITORY

| Year[a] | Hart's Range | | | Strangways Range |
|---|---|---|---|---|
| | Muscovite | | | Phlogopite |
| | Commercial or block | Crude | Scrap | Commercial or block |
| | tons | tons | tons | tons |
| 92 | 4·00 | — | — | — |
| 93 | 0·30 | — | — | — |
| 94 | 13·95 | — | — | — |
| 95 | 6·20 | — | — | — |
| 96 | 1·60 | — | — | — |
| 97 | 6·41 | — | — | — |
| 98–1914 | — | — | — | — |
| 15 | [e]0·48 | — | — | — |
| 16–8 | — | — | — | — |
| 19 | [e]0·17 | — | — | — |
| 20 | 0·54 | | — | — |
| 21 | 0·20 | — | — | — |
| 22 | 1·85 | — | — | — |
| 23 | 2·07 | — | — | — |
| 24 | 2·36 | — | — | — |
| 25 | 3·32 | — | — | — |
| 26 | 2·76 | 4·56 | — | — |
| 27 | 1·60 | — | — | — |
| 28 | 11·20 | — | — | — |
| 29 | 20·02 | — | — | — |
| 30 | [b]38·94 | — | — | — |
| 31 | 23·94 | — | — | — |
| 32 | 20·84 | — | — | — |
| 33 | 41·15 | — | — | — |
| 34 | 30·00 | — | — | — |
| 35 | 59·65 | — | — | — |
| 36 | 27·72 | — | — | — |
| 37 | 30·70 | — | — | — |
| 38 | 50·75 | — | — | — |
| 1939 | 31·71 | — | — | — |
| 1940 | 34·77 | — | — | — |
| 1941 | 38·18 | — | — | — |
| 1942 | 36·32 | — | — | 1·35 |
| 1943 | 17·30 | — | — | 2·08 |
| 1944 | 20·99 | 6·82 | — | 0·09 |
| 1945 | 31·44 | 2·39 | — | — |
| 1946 | 22·77 | 33·39 | — | — |
| 1947 | 41·48 | 6·92 | — | — |
| 1948 | 39·69 | 16·10 | — | — |
| 1949 | 28·78 | — | — | — |
| 1950 | 30·25 | — | 22·85 | — |
| 1951 | 21·44 | 1·18 | 37·00 | — |
| 1952 | 32·11 | — | — | — |
| 1953 | 31·56 | — | 29·10 | — |
| 1954 | 37·78 | — | — | — |
| 1955 | 25·29 | — | — | — |
| 1956 | 12·87 | — | — | — |
| 1957 | 16·39 | 18·13 | — | — |
| 1958 | 18·96 | 4·95 | 16·00 | — |
| 1959 | 19·94 | — | 63·00 | — |
| 1960 | 4·24 | — | 291·18 | — |
| 1961 | — | — | 83·00 | — |
| 1962 | — | — | — | — |
| 1963 | — | — | 9·60 | — |
| 1964 | — | — | 14·30 | — |
| Total | 996·98 | 94·44 | 566·03 | 3·52 |

[a] 1892 to 1914 and from 1942 in calendar years; 1915 to 1941 financial years. [b] Includes some crude mica, not possible to separate.

VERMICULITE PRODUCTION—WESTERN AUSTRALIA

| Year | Bulong | Young River | Mount Palmer | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1939 | 30 | — | — | 30·0 |
| 1940 | 65 | 44·0 | — | 109·0 |
| 1941 | — | 160·0 | — | 160·0 |
| 1942 | — | 178·4 | — | 178·4 |
| 1943 | — | 342·8 | 20 | 362·8 |
| 1944 | — | 123·0 | — | 123·0 |
| 1945 | — | 59·0 | — | 59·0 |
| 1946 | — | 203·5 | — | 203·5 |
| 1947 | — | 82·0 | — | 82·0 |
| 1948 | 60 | 91·0 | — | 151·0 |
| 1949 | 23 | 139·0 | — | 162·0 |
| 1950 | — | 120·0 | — | 120·0 |
| 1951 | — | 55·0 | — | 55·0 |
| 1952 | — | 62·0 | — | 62·0 |
| 1953 | — | 29·0 | — | 29·0 |
| 1954–5 | — | — | — | — |
| 1956 | — | 1·0 | — | 1·0 |
| 1957–64 | — | — | — | — |
| Total | 178 | 1,689·7 | 20 | 1,887·7 |

# MINERAL PIGMENTS

Ochre and Pigment Clay Production—Australia .. .. .. 302–303

Mineral Pigments—Exports—Australia .. .. .. .. .. .. 304

Mineral Pigments—Imports—Australia .. .. .. .. .. .. 304

Ochre Production—New South Wales .. .. .. .. .. 305–306

Ochre and Pigment Clays Production—Victoria .. .. .. .. .. 307

Ochre Production—Tasmania .. .. .. .. .. .. .. 308

Ochre Production—South Australia .. .. .. .. .. .. 309

Ochre Production—Western Australia .. .. .. .. .. .. 310

Ochre Production—Northern Territory .. .. .. .. .. .. 311

# MINERAL PIGMENTS

## OCHRE AND PIGMENT CLAY PRODUCTION—AUSTRALIA

| Year | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory[a] | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1891 | 70 | — | — | — | — | — | 70 |
| 1892 | 100 | — | — | — | — | — | 100 |
| 1893–1905 | — | — | — | — | — | — | — |
| 1906 | No records | — | — | 16 | — | — | 16 |
| 1907 | | — | — | — | — | — | — |
| 1908 | | 2 | — | 119 | — | — | 121 |
| 1909 | | — | — | 149 | — | — | 149 |
| 1910 | | 50 | — | 187 | — | — | 237 |
| 1911 | | 16 | — | 180 | — | — | 196 |
| 1912 | 33 | 13 | — | 342 | — | — | 388 |
| 1913 | 20 | — | — | 249 | — | — | 269 |
| 1914 | 30 | 25 | — | 84 | — | — | 139 |
| 1915 | 90 | — | — | 29 | — | — | 119 |
| 1916 | 40 | — | — | 107 | — | — | 147 |
| 1917 | 207 | 16 | — | 78 | — | — | 301 |
| 1918 | 366 | 25 | 100·0 | 70 | — | — | 551 |
| 1919 | 639 | 110 | — | 208 | — | — | 957 |
| 1920 | 1,000 | 175 | — | 260 | — | — | 1,435 |
| 1921 | 443 | 335 | 14·0 | 212 | — | — | 1,004 |
| 1922 | 527 | — | — | 85 | — | — | 612 |
| 1923 | 190 | 93 | — | 52 | — | — | 335 |
| 1924 | 738 | 76 | 20·0 | 752 | — | — | 1,586 |
| 1925 | 276 | 200 | — | 126 | — | — | 602 |
| 1926 | 526 | 209 | 38·0 | 68 | — | — | 841 |
| 1927 | 274 | 65 | — | 36 | — | — | 375 |
| 1928 | 415 | — | — | 69 | — | — | 484 |
| 1929 | 699 | — | — | 70 | — | — | 769 |
| 1930 | 585 | — | — | 35 | — | — | 620 |
| 1931 | 571 | — | — | 21 | — | — | 592 |
| 1932 | 698 | — | — | 66 | — | — | 764 |
| 1933 | 685 | — | — | 21 | — | — | 707 |
| 1934 | 417 | — | — | 12 | 26 | — | 455 |

[a] Years ending 30th June, 1939–41, calendar years 1943–44. 1942 production covers period July, 1941–December, 1942.

OCHRE AND PIGMENT CLAY PRODUCTION—AUSTRALIA—*continued*

| Year | New South Wales | Victoria | Tasmania | South Australia | Western Australia | Northern Territory[a] | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1935 | 456 | — | — | 46 | — | — | 502 |
| 1936 | 623 | — | — | 551 | — | — | 1,174 |
| 1937 | 781 | 6 | — | 356 | — | — | 1,143 |
| 1938 | 568 | — | — | 9 | 62 | — | 639 |
| 1939 | 450 | — | — | — | 80 | 35 | 565 |
| 1940 | 640 | — | 4 | 18 | 238 | 535 | 1,434 |
| 1941 | 1,207 | — | — | 19 | 339 | 378 | 1,943 |
| 1942 | 1,692 | — | 21 | — | 299 | 1,051 | 3,063 |
| 1943 | 1,737 | — | 380 | 72 | 501 | 1,346 | 4,036 |
| 1944 | 1,259 | — | 74 | 34 | 997 | 1,439 | 3,803 |
| 1945 | 1,012 | — | 66 | — | 650 | 554 | 2,282 |
| 1946 | 1,376 | — | 13 | — | 860 | 496 | 2,745 |
| 1947 | 1,130 | — | 2 | — | 1,027 | 570 | 2,729 |
| 1948 | 803 | — | 22 | — | 566 | 448 | 1,839 |
| 1949 | 680 | — | 14 | — | 44 | 605 | 1,343 |
| 1950 | 1,100 | — | 48 | — | 186 | 335 | 1,669 |
| 1951 | 1,186 | — | 28 | 89 | 688 | 84 | 2,085 |
| 1952 | 131 | — | 23 | 252 | 297 | — | 703 |
| 1953 | 248 | — | 20 | 20 | 307 | — | 595 |
| 1954 | 136 | — | 47 | — | 429 | — | 612 |
| 1955 | 57 | — | 6 | — | 345 | — | 408 |
| 1956 | 43 | — | 21 | — | 444 | — | 508 |
| 1957 | 59 | — | 21 | — | 27 | — | 107 |
| 1958 | 28 | — | 66 | — | 189 | — | 283 |
| 1959 | 15 | — | 59 | — | 104 | — | 178 |
| 1960 | 30 | — | 31 | — | 104 | — | 165 |
| 1961 | — | — | 75 | — | 294 | — | 369 |
| 1962 | — | — | 60 | — | — | — | 60 |
| 1963 | — | — | 51 | — | 213 | — | 264 |
| 1964 | — | — | 59 | — | 324 | — | 393 |
| Total | 27,076 | 1,416 | 1,394 | 5,169 | 9,640 | 7,875 | 52,580 |

[a] Years ending 30th June, 1939–41, calendar years 1943–44. 1942 production covers period July, 1941–December, 1942.

## MINERAL PIGMENTS—EXPORTS—AUSTRALIA

Iron Oxide Pigments[a]

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1949 | 169 | 3,236 | 1957 | 502 | 58,444 |
| | | | 1958 | 254 | 17,132 |
| 1950 | 346 | 10,545 | 1959 | 388 | 11,884 |
| 1951 | 377 | 7,257 | | | |
| 1952 | 350 | 22,100 | 1960 | 644 | 48,178 |
| 1953 | 188 | 17,604 | 1961 | 227 | 19,476 |
| 1954 | 128 | 2,575 | 1961–62 | 337 | 36,187 |
| | | | 1962–63 | 45 | 4,638 |
| 1955 | 224 | 4,762 | 1963–64 | 360 | 39,328 |
| 1956 | 244 | 4,864 | | | |

[a] Not recorded as separate item prior to 1st July, 1948.

## MINERAL PIGMENTS—IMPORTS—AUSTRALIA

Iron Oxide Pigments[a]

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1946 | 1,905 | 31,637 | 1950 | 2,116 | 87,071 |
| 1947 | 1,217 | 41,388 | 1951 | 2,698 | 137,295 |
| 1948 | 2,562 | 94,988 | 1952 | 2,987 | 183,556 |
| 1949 | 1,472 | 77,392 | 1953 | 1,087 | 51,859 |

[a] Not recorded as separate item prior to 1st July, 1945.

| Year | Red Ochre and Red Oxide[a] | | Yellow Ochre[a] | | Brown Iron Oxides | |
|---|---|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o b. |
| 1954 | 2,776 | 106,906 | 393 | 24,546 | 36 | 1,056 |
| 1955 | 2,256 | 96,915 | 302 | 16,132 | 36 | 1,832 |
| 1956 | 2,576 | 100,297 | 408 | 20,545 | 53 | 1,957 |
| 1957 | 2,257 | 95,069 | 447 | 27,156 | 25 | 1,053 |
| 1958 | 2,745 | 118,741 | 554 | 37,850 | 69 | 3,574 |
| 1959 | 2,333 | 121,495 | 583 | 41,462 | 125 | 7,225 |
| 1960 | 2,376 | 101,775 | 765 | 54,518 | 267 | 17,293 |
| 1961 | 2,768 | 130,896 | 1,006 | 72,192 | 272 | 25,104 |
| 1961–62 | 2,013 | 83,880 | 835 | 60,889 | 273 | 23,262 |
| 1962–63 | 2,805 | 129,426 | 1,506 | 84,001 | 396 | 26,682 |
| 1963–64 | 3,428 | 151,849 | 1,152 | 83,389 | 428 | 29,948 |

[a] Not recorded separately prior to 1st July, 1953.

OCHRE PRODUCTION—NEW SOUTH WALES

| Year | Dubbo District | Gulgong District | | | Glen Innes District | Mudgee District | Sydney District | Queanbeyan District | Moss Vale District | Goulburn District | Binalong District | Milton District | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Yellow | Red | Umber | Yellow and Chrome | Red | Umber | Red | Umber | Red and Yellow | Yellow | Hematite | Red | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1891 | — | — | — | — | — | — | — | — | — | — | — | — | [b]70 | 70 |
| 1892 | — | — | — | — | — | — | — | — | — | — | — | — | [b]100 | 100 |
| 1893–1911 | — | — | — | — | — | — | — | — | — | — | — | — | — | n.r. |
| 1912 | 15 | — | — | — | — | — | — | — | — | 18 | — | — | — | 33 |
| 1913 | 20 | — | — | — | — | — | — | — | — | — | — | — | — | 20 |
| 1914 | 30 | — | — | — | — | — | — | — | — | — | — | — | — | 30 |
| 1915 | 90 | — | — | — | — | — | — | — | — | — | — | — | — | 90 |
| 1916 | 40 | — | — | — | — | — | — | — | — | — | — | — | — | 40 |
| 1917 | 207 | — | — | — | — | — | — | — | — | — | — | — | — | 207 |
| 1918 | 326 | — | — | — | — | — | — | — | — | 30 | — | — | — | 356 |
| 1919 | 216 | — | — | — | 165 | — | 60 | — | 138 | 20 | 40 | — | — | 639 |
| 1920 | 666 | — | — | — | 231 | — | — | 53 | — | — | — | — | [c]50 | [e]1,000 |
| 1921 | 338 | 30 | — | — | 75 | — | — | — | — | — | — | — | — | 443 |
| 1922 | 300 | 29 | 40 | 10 | 4 | — | — | 44 | — | — | — | 100 | — | 527 |
| 1923 | 105 | 16 | 64 | — | — | — | 5 | — | — | — | — | — | — | 190 |
| 1924 | 628 | 44 | 20 | — | — | — | 1 | — | — | 45 | — | — | — | 738 |
| 1925 | 233 | — | — | — | 43 | — | — | — | — | — | — | — | — | 276 |
| 1926 | 360 | 85 | — | — | — | — | 28 | — | — | — | 2 | 50 | [d]1 | 526 |
| 1927 | 226 | — | 29 | — | — | [e]1 | 18 | — | — | — | — | — | — | 274 |
| 1928 | 352 | — | 30 | — | — | — | 18 | 15 | — | — | — | — | — | 415 |
| 1929 | 397 | 144 | 18 | — | — | — | 10 | 50 | 32 | — | — | — | — | [a]699 |
| 1930 | 359 | 123 | 15 | 15 | — | — | 8 | — | — | — | — | — | [f]20 | [a]585 |
| 1931 | 374 | 100 | — | 60 | — | — | 12 | 25 | — | — | — | — | — | 571 |
| 1932 | 465 | 123 | — | 30 | — | — | 13 | — | 15 | — | — | 52 | — | 698 |
| 1933 | 355 | 94 | — | — | — | — | — | — | — | — | — | 11 | — | [a]685 |
| 1934 | 93 | 152 | 55 | — | — | — | 6 | 40 | — | — | — | — | — | [a]417 |
| 1935 | 180 | 176 | 59 | 14 | — | — | — | — | — | — | — | — | — | [a]456 |
| 1936 | 390 | 143 | 75 | — | — | 15 | — | — | — | — | — | — | — | 623 |
| 1937 | 560 | 133 | 73 | — | — | — | — | — | 15 | — | — | — | — | 781 |
| 1938 | 345 | 134 | 74 | 15 | — | — | — | — | — | — | — | — | — | 568 |
| 1939 | 250 | 175 | 15 | 10 | — | — | — | — | — | — | — | — | — | 450 |

[a] Not all accounted for in previous columns. [b] Kerr's Creek. [c] Cobar estimated. [d] Gosford. [f] Ph. Wallarah. [g] 40 Dunedoo, 92 Parkes. [h] 10 Cobar, 5 Nundle. [j] Purple oxide from Bellingen District. [k] 40 tons of purple oxide from Bellingen District and 118 tons of red ochre from Dunedoo. Material from Gulgong recorded by New South Wales Mines Department as chromite, is chrome ochre and is included here.

OCHRE PRODUCTION—NEW SOUTH WALES—*continued*

| Year | Dubbo District | Gulgong District | | | Glen Innes District | Mudgee District | Sydney District | Queanbeyan District | Moss Vale District | Goulburn District | Binalong District | Milton District | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Yellow | Red | Umber | Yellow and Chrome | Red | Umber | Red | Umber | Red and Yellow | Yellow | Hematite | Red | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1940 | 325 | 235 | 45 | 35 | — | — | — | — | — | — | — | — | — | 640 |
| 1941 | 785 | 190 | 75 | — | 25 | — | — | — | — | — | — | — | [g]132 | 1,207 |
| 1942 | 827 | 271 | 379 | — | 71 | 144 | — | — | — | — | — | — | — | 1,692 |
| 1943 | 1,192 | 92 | 341 | — | — | 29 | — | — | — | 68 | — | — | [h]15 | 1,737 |
| 1944 | 774 | 115 | 234 | — | 76 | 30 | — | — | 30 | — | — | — | — | 1,259 |
| 1945 | 425 | 195 | 258 | — | 45 | — | — | — | — | — | — | — | — | [a]1,012 |
| 1946 | 808 | — | 477 | — | 76 | 15 | — | — | — | — | — | — | — | 1,376 |
| 1947 | 797 | — | 271 | — | 58 | — | — | — | — | — | — | — | — | [a]1,130 |
| 1948 | 562 | — | 211 | — | 30 | — | — | — | — | — | — | — | — | 803 |
| 1949 | 385 | 121 | 62 | — | 15 | 74 | — | — | — | — | — | — | [j]10 | [a]680 |
| 1950 | 425 | 23 | — | — | 76 | 54 | — | — | 364 | — | — | — | [k]150 | [a]1,100 |
| 1951 | 940 | 122 | 79 | — | 15 | 30 | — | — | — | — | — | — | — | 1,186 |
| 1952 | 105 | 14 | — | — | — | 12 | — | — | — | — | — | — | — | 131 |
| 1953 | 106 | 111 | — | — | 15 | 16 | — | — | — | — | — | — | — | 248 |
| 1954 | 120 | — | 16 | — | — | — | — | — | — | — | — | — | — | 136 |
| 1955 | 57 | — | — | — | — | — | — | — | — | — | — | — | — | 57 |
| 1956 | 43 | — | — | — | — | — | — | — | — | — | — | — | — | 43 |
| 1957 | 30 | — | — | — | 29 | — | — | — | — | — | — | — | — | 59 |
| 1958 | 13 | — | — | — | 15 | — | — | — | — | — | — | — | — | 28 |
| 1959 | 15 | — | — | — | — | — | — | — | — | — | — | — | — | 15 |
| 1960 | 15 | — | — | — | 15 | — | — | — | — | — | — | — | — | 30 |
| 1961–64 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 16,669 | 3,190 | 3,015 | 189 | 1,079 | 420 | 179 | 227 | 594 | 181 | 42 | 213 | 548 | 27,076 |

[a] Not all accounted for in previous columns. [b] Kerr's Creek. [c] Cobar, estimated. [d] Gosford. [f] Ph. Wallarah. [g] 40 Dunedoo, 92 Parkes. [h] 10 Cobar, 5 Nundle. [j] Purple oxide from Bellingen District. [k] 40 tons of purple oxide from Bellingen District and 118 tons of red ochre from Dunedoo. Material from Gulgong recorded by New South Wales Mines Department as chromite, is chrome ochre and is included here.

## OCHRE AND PIGMENT CLAYS PRODUCTION—VICTORIA

| ear | Ballarat[a] Pigment Clay | Balnarring Pigment Clay | Knowsley Pigment Clay | Dookie Pigment Clay | Heathcote Red Oxide | Mirboo North Yellow Ochre | Mis-cellaneous | Total Pigment Clay | Total Ochre | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 3 | — | — | — | — | — | — | [d]2 | — | 2 | 2 |
| | — | — | — | — | — | — | — | — | — | — |
| | — | — | 50 | — | — | — | — | 50 | — | 50 |
| | — | 16 | — | — | — | — | — | 16 | — | 16 |
| 2 | — | 13 | — | — | — | — | — | 13 | — | 13 |
| | — | — | — | — | — | — | — | — | — | — |
| 4 | — | — | — | 25 | — | — | — | 25 | — | 25 |
| 5–16 | — | — | — | — | — | — | — | — | — | — |
| | — | 16 | — | — | — | — | — | 16 | — | 16 |
| | — | — | — | 25 | — | — | — | 25 | — | 25 |
| | — | 110 | — | — | — | — | — | 110 | — | 110 |
| | — | — | 175 | — | — | — | — | 175 | — | 175 |
| | — | 40 | — | — | 200 | — | [b]95 | 40 | 295 | 335 |
| | — | — | — | — | — | — | — | — | — | — |
| | 58 | — | — | — | — | 35 | — | 58 | 35 | 93 |
| | 52 | — | — | — | — | 24 | — | 52 | 24 | 76 |
| | 200 | — | — | — | — | — | — | 200 | — | 200 |
| 5 | 60 | — | — | — | 16 | — | [c]133 | 193 | 16 | 209 |
| | 50 | 15 | — | — | — | — | — | 65 | — | 65 |
| –36 | — | — | — | — | — | — | — | — | — | — |
| | — | — | — | — | — | — | [a]6 | — | 6 | 6 |
| –64 | — | — | — | — | — | — | — | — | — | — |
| l | 420 | 210 | 225 | 50 | 216 | 59 | 236 | 1,038 | 378 | 1,416 |

anite Flat (Sienna); a further 75 tons is known to have been produced in 1934–35 and 1939–40. [b] 45 Gordon (Hematite), Duyen (Red Ochre). [c] Castlemaine. [d] Recorded production only; actual production from Ballarat far in excess of that vn.

## OCHRE PRODUCTION—TASMANIA

| Year | Anderson's Creek and Mowbray | Spalford Red Ochre | Penguin and Smithton Yellow Ochre | Miscellaneous | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1918 | 100 | — | — | — | 100 |
| 1919–20 | — | — | — | — | — |
| 1921 | 14 | — | — | — | 14 |
| 1922–3 | — | — | — | — | — |
| 1924 | 20 | — | — | — | 20 |
| 1925 | — | — | — | — | — |
| 1926 | 38 | — | — | — | 38 |
| 1929–39 | — | — | — | — | — |
| 1940 | — | 4 | — | — | 4 |
| 1941 | — | — | — | — | — |
| 1942 | — | 21 | — | — | 21 |
| 1943 | — | 36 | [a]344 | — | 380 |
| 1944 | 18 | 54 | [b]3 | — | 75 |
| 1945 | — | 61 | [c]5 | — | 66 |
| 1946 | — | 5 | [c]8 | — | 13 |
| 1947 | — | — | [c]2 | — | 2 |
| 1948 | — | 22 | — | — | 22 |
| 1949 | — | 14 | — | — | 14 |
| 1950 | — | 48 | — | — | 48 |
| 1951 | — | 28 | — | — | 28 |
| 1952 | — | 23 | — | — | 23 |
| 1953 | — | 14 | [c]6 | — | 20 |
| 1954 | — | 47 | — | — | 47 |
| 1955 | — | 6 | — | — | 6 |
| 1956 | — | 21 | — | — | 21 |
| 1957 | — | 10 | — | [d]11 | 21 |
| 1958 | — | 21 | — | [d]45 | 66 |
| 1959 | — | 51 | — | [d]8 | 59 |
| 1960 | — | 31 | — | — | 31 |
| 1961 | — | 75 | — | — | 75 |
| 1962 | — | 60 | — | — | 60 |
| 1963 | — | 51 | — | — | 51 |
| 1964 | — | 69 | — | — | 69 |
| Total | 190 | 772 | 368 | 64 | 1,394 |

[a] 311 tons from Penguin, 33 Smithton. [b] Smithton. [c] Penguin. [d] Surges Bay.

OCHRE PRODUCTION—SOUTH AUSTRALIA

| Year | Beltana | Mt. Sienna Ochre Mine Hd. Talunga | Oodlawirra Hd. Coglin | Miscellaneous | Total Ochre | Eclipse Ochre Mine | Grand Total |
|---|---|---|---|---|---|---|---|
| | Umber and Red oxide | Ochre | Yellow Ochre | Ochre | | Pigment Clay | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1906 | 16 | — | — | — | 16 | — | 16 |
| 1907 | — | — | — | — | — | — | — |
| 1908 | 50 | 52 | — | — | 102 | 17 | 119 |
| 1909 | 19 | — | — | — | 19 | 130 | 149 |
| 1910 | 39 | — | 102 | — | 141 | 46 | 187 |
| 1911 | 27 | — | — | [a]50 | 77 | 103 | 180 |
| 1912 | 50 | — | 28 | — | 78 | 264 | 342 |
| 1913 | — | — | — | — | — | 249 | 249 |
| 1914 | — | — | — | — | — | 84 | 84 |
| 1915 | — | 1 | — | — | 1 | 28 | 29 |
| 1916 | — | — | 77 | — | 77 | 30 | 107 |
| 1917 | — | — | 62 | — | 62 | 16 | 78 |
| 1918 | — | — | 64 | — | 64 | 6 | 70 |
| 1919 | 119 | — | 89 | — | 208 | — | 208 |
| 1920 | 90 | 100 | 70 | — | 260 | — | 260 |
| 1921 | 66 | 112 | 34 | — | 212 | — | 212 |
| 1922 | 52 | 15 | 14 | — | 81 | 4 | 85 |
| 1923 | — | 32 | — | — | 32 | 20 | 52 |
| 1924 | 595 | 45 | — | [b]70 | 710 | 42 | 752 |
| 1925 | 70 | 2 | — | [b]15 | 87 | 39 | 126 |
| 1926 | 36 | — | — | — | 36 | 32 | 68 |
| 1927 | 13 | 8 | — | — | 21 | 15 | 36 |
| 1928 | 35 | 20 | — | — | 55 | 14 | 69 |
| 1929 | 46 | 12 | — | — | 58 | 12 | 70 |
| 1930 | 17 | — | — | — | 17 | 18 | 35 |
| 1931 | 12 | — | — | — | 12 | 9 | 21 |
| 1932 | 50 | 1 | — | — | 51 | 15 | 66 |
| 1933 | — | 2 | — | — | 2 | 19 | 21 |
| 1934 | — | 3 | — | — | 3 | 9 | 12 |
| 1935 | 36 | 1 | — | — | 37 | 9 | 46 |
| 1936 | 50 | 3 | — | — | 53 | 498 | 551 |
| 1937 | — | — | — | — | — | 356 | 356 |
| 1938 | — | — | — | — | — | 9 | 9 |
| 1939 | — | — | — | — | — | — | — |
| 1940 | — | — | — | — | — | 18 | 18 |
| 1941 | 19 | — | — | — | 19 | — | 19 |
| 1942 | — | — | — | — | — | — | — |
| 1943 | 72 | — | — | — | 72 | — | 72 |
| 1944 | 34 | — | — | — | 34 | — | 34 |
| 1945–48 | — | — | — | — | — | — | — |
| 1951 | 61 | — | — | — | 61 | 28 | 89 |
| 1952 | 249 | 3 | — | — | 252 | — | 252 |
| 1953 | 20 | — | — | — | 20 | — | 20 |
| 1954–64 | — | — | — | — | — | — | — |
| Total | 1,943 | 412 | 540 | 135 | 3,091 | 2,139 | 5,230 |

[a] Williamstown. [b] Oodnadatta.

## OCHRE PRODUCTION—WESTERN AUSTRALIA

| Year | Ophthalmia Range | East Coolgardie Goldfield | | Murchison Goldfield | | Pilbara Goldfield | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|
| | Red Ochre | Red Ochre | Yellow Ochre | Red Ochre | Yellow Ochre | Red Ochre | | |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1934 | — | — | — | — | — | — | [a]26 | 26 |
| 1935–7 | — | — | — | — | — | — | — | — |
| 1938 | 62 | — | — | — | — | — | — | 62 |
| 1939 | 80 | — | — | — | — | — | — | 80 |
| 1940 | 238 | — | — | — | — | — | — | 238 |
| 1941 | 339 | — | — | — | — | — | — | 339 |
| 1942 | 289 | — | — | — | — | — | [a]10 | 299 |
| 1943 | 486 | 15 | — | — | — | — | — | 501 |
| 1944 | 903 | 20 | — | 74 | — | — | — | 997 |
| 1945 | 600 | — | — | 50 | — | — | — | 650 |
| 1946 | 354 | — | — | 506 | — | — | — | 860 |
| 1947 | 191 | 10 | — | 824 | — | 2 | — | 1,027 |
| 1948 | 185 | — | — | 381 | — | — | — | 566 |
| 1949 | — | — | 10 | — | 7 | 16 | [b]11 | 44 |
| 1950 | — | — | — | 186 | — | — | — | 186 |
| 1951 | — | — | — | 612 | 60 | 16 | — | 688 |
| 1952 | — | — | — | 297 | — | — | — | 297 |
| 1953 | — | — | 20 | 266 | — | — | [c]21 | 307 |
| 1954 | — | — | — | 388 | 41 | — | — | 429 |
| 1955 | — | — | — | 303 | — | 42 | — | 345 |
| 1956 | — | — | — | 369 | 75 | — | — | 444 |
| 1957 | — | — | — | 10 | 17 | — | — | 27 |
| 1958 | — | — | — | 171 | 18 | — | — | 189 |
| 1959 | — | — | — | 104 | — | — | — | 104 |
| 1960 | — | — | — | 104 | — | — | — | 104 |
| 1961 | — | — | — | 117 | 177 | — | — | 294 |
| 1962 | — | — | — | — | — | — | — | — |
| 1963 | — | — | — | 213 | — | — | — | 213 |
| 1964 | — | — | — | 324 | — | — | — | 324 |
| Total | 3,727 | 45 | 30 | 5,299 | 395 | 76 | 68 | 9,640 |

[a] From Carbarup District. [b] From Yalgoo. [c] From Kimberley.

# MINERAL PIGMENTS

## OCHRE PRODUCTION—NORTHERN TERRITORY

| Year | Rumbalara Yellow Ochre |
|---|---|
| | tons |
| 1938–1939 | 35 |
| 1939–1940 | 535 |
| 1940–1941 | 378 |
| 1941–1942 | 661 |
| July to December, 1942 | 390 |
| 1943 | 1,345 |
| 1944 | 1,439 |
| 1945 | 554 |
| 1946 | 496 |
| 1947 | 570 |
| 1948 | 448 |
| 1949 | 605 |
| 1950 | 335 |
| 1951 | 84 |
| 1952–64 | — |
| Total | 7,875 |

Page 312 is blank.

# MOLYBDENUM


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Molybdenite Production—Queensland .. .. .. .. .. 318–319

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Molybdenite Production—Victoria .. .. .. .. .. .. 322

## MOLYBDENITE PRODUCTION—AUSTRALIA

(Molybdenite concentrates, approximately 90 per cent $MoS_2$)

| Year | Queensland | New South Wales | Victoria | South Australia (Yelta) | Western Australia[a] (Mount Mulgine) | Northern Territory (Yenberrie) | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1900 | 10·80 | — | — | — | — | — | 10·80 |
| 1901 | 9·20 | — | — | — | — | — | 9·20 |
| 1902 | 38·80 | 15·00 | — | — | — | — | 53·80 |
| 1903 | 9·80 | 29·00 | — | — | — | — | 38·80 |
| 1904 | 20·87 | 25·25 | — | — | — | — | 46·12 |
| 1905 | 63·80 | 19·40 | — | — | — | — | 83·20 |
| 1906 | 106·50 | 32·65 | — | — | — | — | 139·15 |
| 1907 | 66·70 | 21·65 | — | — | — | — | 88·35 |
| 1908 | 88·85 | 8·45 | — | — | — | — | 97·30 |
| 1909 | 93·70 | 28·15 | — | — | — | — | 121·85 |
| 1910 | 105·95 | 47·50 | — | — | — | — | 153·45 |
| 1911 | 99·50 | 20·65 | — | — | — | — | 120·15 |
| 1912 | 102·30 | e18·50 | — | — | — | — | 120·80 |
| 1913 | 66·25 | e39·80 | — | — | — | — | 106·05 |
| 1914 | 77·75 | e24·30 | — | — | — | 0·02 | 102·07 |
| 1915 | 97·15 | 31·70 | — | — | — | — | 128·85 |
| 1916 | 81·35 | 53·82 | — | — | — | 0·10 | 135·27 |
| 1917 | 111·20 | 70·24 | 1·30 | 0·90 | e1·00 | 0·13 | 184·77 |
| 1918 | 111·30 | 92·96 | 2·70 | 0·20 | e0·50 | 0·01 | 207·72 |
| 1919 | 117·85 | 65·83 | 9·80 | 0·20 | e0·50 | — | 184·38 |
| 1920 | 29·25 | 30·00 | | — | — | — | 69·05 |
| 1921 | 8·75 | — | 0·25 | — | — | — | 9·00 |
| 1922 | 1·10 | 2·00 | 13·30 | — | e5·00 | 0·06 | 21·46 |
| 1923 | 9·60 | 9·50 | 47·20 | — | — | — | 66·30 |
| 1924 | 2·75 | 10·50 | 39·70 | — | — | — | 52·95 |
| 1925 | 3·00 | 6·00 | 32·20 | — | — | — | 41·20 |
| 1926 | — | 0·40 | 39·30 | — | — | — | 39·70 |
| 1927 | 1·00 | — | — | — | — | — | 1·00 |
| 1928 | — | 2·00 | — | — | — | — | 2·00 |
| 1929 | — | 0·50 | — | — | — | — | 0·50 |
| 1930 | 2·00 | 3·15 | — | — | — | — | 5·15 |
| 1931 | 0·30 | 0·30 | — | — | — | — | 0·60 |
| 1932 | 2·00 | 3·50 | — | — | — | — | 5·50 |
| 1933 | 4·90 | 5·50 | — | — | — | — | 10·40 |
| 1934 | 1·20 | 3·25 | — | — | — | — | 4·45 |

[a]Quantities estimated from ore recorded as follows:—1917, 14 tons; 1918, 5 tons; 1919, 7 tons; 1920, 0·5 tons; 1922, 51 tons.

MOLYBDENITE PRODUCTION—AUSTRALIA—*continued*
(Molybdenite concentrates, approximately 90 per cent $MoS_2$)

| Year | Queensland | New South Wales | Victoria | South Australia (Yelta) | Western Australia[a] (Mount Mulgine) | Northern Territory (Yenberrie) | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1935 | 10·60 | — | — | — | — | — | 10·60 |
| 1936 | 20·00 | 0·15 | — | — | — | — | 20·15 |
| 1937 | 23·25 | [e]8·30 | 29·00 | — | — | — | 60·55 |
| 1938 | 13·45 | 8·65 | 33·50 | — | — | — | 55·60 |
| 1939 | 20·10 | 25·00 | 26·00 | — | — | — | 71·10 |
| 1940 | 2·95 | 11·80 | 20·75 | — | — | — | 35·50 |
| 1941 | 6·00 | 5·50 | — | — | — | — | 11·50 |
| 1942 | 9·20 | 0·83 | 5·00 | — | — | — | 15·03 |
| 1943 | 8·85 | 8·19 | 8·00 | — | — | — | 25·04 |
| 1944 | 0·35 | 5·10 | 12·00 | — | — | — | 17·45 |
| 1945 | — | 0·42 | — | — | — | — | 0·42 |
| 1946 | 8·25 | — | — | — | — | — | 8·25 |
| 1947 | 1·00 | 3·10 | — | — | — | — | 4·10 |
| 1948 | 3·20 | 0·25 | — | — | — | — | 3·45 |
| 1949 | 5·80 | 0·10 | — | — | — | — | 5·90 |
| 1950 | 4·75 | — | — | — | — | — | 4·75 |
| 1951 | 0·30 | 1·79 | — | — | — | — | 2·09 |
| 1952 | 0·10 | 0·03 | — | — | — | — | 0·13 |
| 1953 | 2·15 | — | — | — | — | — | 2·15 |
| 1954 | 0·85 | — | — | — | — | — | 0·85 |
| 1955 | 2·80 | 0·03 | — | — | — | — | 2·83 |
| 1956 | 0·10 | — | — | — | — | — | 0·10 |
| 1957 | 2·75 | — | — | — | — | — | 2·75 |
| 1958 | 4·50 | — | — | — | — | — | 4·50 |
| 1959–60 | — | — | — | — | — | — | — |
| 1961 | 0·25 | — | — | — | — | — | 0·25 |
| 1962 | 1·25 | — | — | — | — | — | 1·25 |
| 1963 | 11·60 | — | — | — | — | — | 11·60 |
| 1964 | — | — | — | — | — | — | — |
| Total | 1,709·92 | 800·69 | 320·00 | 1·30 | 7·00 | 0·32 | 2,839·23 |

[a]Quantities estimated from ore recorded as follows:—1917, 14 tons; 1918, 5 tons; 1919, 7 tons; 1920, 0·5 tons; 1922, 51 tons.

# MOLYBDENUM

## MOLYBDENITE ORE[a]—EXPORTS[b]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1903 | 39 | 6,072 | 1927–28 | 24 | 4,140 |
| 1904 | 55 | 5,432 | 1928–29 | 17 | 2,742 |
| | | | 1929–30 | 12 | 1,580 |
| 1905 | 69 | 8,372 | | | |
| 1906 | 93 | 13,586 | 1930–31 | 8 | 911 |
| 1907 | 101 | 14,555 | 1931–32 | 2 | 230 |
| 1908 | 106 | 12,446 | 1932–33 | 9 | 2,179 |
| 1909 | 53 | 5,815 | 1933–34 | 6 | 1,099 |
| | | | 1934–35 | 5 | 952 |
| 1910 | 99 | 12,910 | | | |
| 1911 | 94 | 12,426 | 1935–36 | 17 | 2,779 |
| 1912 | 144 | 15,538 | 1936–37 | 35 | 6,254 |
| 1913 | 134 | 19,475 | 1937–38 | 57 | 12,378 |
| 1914 | n.a. | n.a. | 1938–39 | 68 | 13,897 |
| | | | 1939–40 | 57 | 11,710 |
| 1914–15 | 104 | 53,666 | | | |
| 1915–16 | 128 | 58,891 | 1940–41 | 12 | 3,272 |
| 1916–17 | 176 | 80,680 | 1941–42 | — | — |
| 1917–18 | 167 | 75,523 | 1942–43 | — | — |
| 1918–19 | 200 | 86,311 | 1943–44 | — | — |
| 1919–20 | 229 | 72,962 | 1944–45 | — | — |
| 1920–21 | 124 | 40,940 | 1945–46 | 7 | 1,732 |
| 1921–22 | 3 | 350 | 1946–47 | 41 | 8,970 |
| 1922–23 | 30 | 5,500 | 1948 | — | — |
| 1923–24 | 43 | 9,624 | 1949 | 4 | 1,192 |
| 1924–25 | 27 | 5,389 | | | |
| | | | 1950 | — | — |
| 1925–26 | 35 | 7,004 | 1951 | 1 | 812 |
| 1926–27 | 21 | 3,644 | [c]1952 | † | 140 |

[a]Includes concentrate. [b]Figures not available prior to 1903. [c]Not recorded as separate item after 1952.

## MOLYBDENUM ALLOYS AND COMPOUNDS—IMPORTS—AUSTRALIA

| Year | Ferromolybdenum[a] | | Molybdic Acid[a] | | Molybdenum Compounds[b] n.e.i. | |
|---|---|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1951–52 | 28 | 26,426 | 23 | 13,919 | n.a. | n.a. |
| 1952–53 | 76 | 76,464 | 26 | 16,910 | n.a. | n.a. |
| 1953–54 | 152 | 73,960 | 13 | 12,373 | n.a. | n.a. |
| 1954–55 | 97 | 99,020 | 36 | 37,295 | 34 | 30,397 |
| 1955–56 | 114 | 119,347 | 28 | 25,261 | 45 | 35,176 |
| 1956–57 | 158 | 180,646 | 77 | 46,378 | 17 | 16,225 |
| 1957–58 | 129 | 162,788 | 46 | 45,355 | 21 | 24,321 |
| 1958–59 | 140 | 163,539 | 3 | 3,454 | 119 | 88,678 |
| 1959–60 | 106 | 126,797 | 4 | 5,062 | 80 | 59,159 |
| 1960–61 | 525 | 515,136 | 26 | 30,589 | 23 | 17,033 |
| 1961–62 | 74 | 107,995 | 65 | 70,108 | 35 | 27,272 |
| 1962–63 | 77 | 98,773 | 61 | 65,334 | 23 | 20,349 |
| 1963–64 | 260 | 324,696 | n.a. | n.a. | 52 | 44,612 |

[a]Not recorded as separate item prior to 1st July, 1951. [b]Not recorded as separate item prior to 1st July, 1954.

## MOLYBDENITE—IMPORTS—AUSTRALIA

The only recorded import of molybdenite ore since 1903 was in year 1921-22. The quantity was 1 cwt. and the value £13.

## MOLYBDENITE PRODUCTION—QUEENSLAND

(Molybdenite concentrates, approximately 90 per cent $MoS_2$)

| Year | Chillagoe-Herberton-Mareeba District (Wolfram Camp, Bamford, etc.)[g] | Mount Perry District (Wonbah) | Townsville District (Ollera Creek) | Stanthorpe District | Miscellaneous | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1900 | 10·80 | — | — | — | — | 10·80 |
| 1901 | 9·20 | — | — | — | — | 9·20 |
| 1902 | 38·80 | — | — | — | — | 38·80 |
| 1903 | 9·80 | — | — | — | — | 9·80 |
| 1904 | 20·77 | — | — | — | [a]0·10 | 20·87 |
| 1905 | 63·50 | — | 0·30 | — | — | 63·80 |
| 1906 | 105·90 | — | 0·60 | — | — | 106·50 |
| 1907 | 66·50 | — | 0·20 | — | — | 66·70 |
| 1908 | 88·65 | — | 0·20 | — | — | 88·85 |
| 1909 | 91·45 | — | 2·25 | — | — | 93·70 |
| 1910 | 105·85 | — | 0·10 | — | — | 105·95 |
| 1911 | 99·25 | — | 0·25 | — | — | 99·50 |
| 1912 | 101·50 | — | 0·80 | — | — | 102·30 |
| 1913 | 65·75 | — | 0·50 | — | — | 66·25 |
| 1914 | 76·25 | — | 1·40 | — | [b]0·10 | 77·75 |
| 1915 | 92·35 | — | 4·50 | 0·20 | [c]0·10 | 97·15 |
| 1916 | 75·75 | — | 5·50 | — | [a]0·10 | 81·35 |
| 1917 | 106·75 | 2·20 | 2·00 | 0·25 | [c]0·05 | 111·20 |
| 1918 | 90·75 | 19·10 | 1·35 | 0·10 | — | 110·30 |
| 1919 | 73·60 | 42·85 | 1·30 | 0·10 | — | 117·85 |
| 1920 | 23·30 | 5·35 | 0·60 | — | — | 29·25 |
| 1921 | 8·75 | — | — | — | — | 8·75 |
| 1922 | 1·10 | — | — | — | — | 1·10 |
| 1923 | 9·60 | — | — | — | — | 9·60 |
| 1924 | 2·75 | — | — | — | — | 2·75 |
| 1925 | 1·75 | 1·25 | — | — | — | 3·00 |
| 1926 | — | — | — | — | — | — |
| 1927 | 1·00 | — | — | — | — | 1·00 |
| 1928 | — | — | — | — | — | — |
| 1929 | — | — | — | — | — | — |
| 1930 | 2·00 | — | — | — | — | 2·00 |
| 1931 | 0·30 | — | — | — | — | 0·30 |
| 1932 | 1·75 | 0·25 | — | — | — | 2·00 |
| 1933 | 3·40 | 1·50 | — | — | — | 4·90 |
| 1934 | 1·20 | — | — | — | — | 1·20 |

[a]Ukalunda. [b]Rosedale. [c]Coen. [d]2 tons from Charters Towers, ·05 tons from Oaks. [f]Charters Towers. [g]Mareeba Gold and Mineral Field established 1st January, 1949.

## MOLYBDENITE PRODUCTION—QUEENSLAND—*continued*

(Molybdenite concentrates, approximately 90 per cent $MoS_2$)

| Year | Chillagoe-Herberton-Mareeba District (Wolfram Camp, Bamford, etc.)[g] | Mount Perry District (Wonbah) | Townsville District (Ollera Creek) | Stanthorpe District | Miscellaneous | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1935 | 10·00 | 0·60 | — | — | — | 10·60 |
| 1936 | 17·00 | 3·00 | — | — | — | 20·00 |
| 1937 | 18·00 | 5·00 | — | — | [d]0·25 | 23·25 |
| 1938 | 8·00 | 5·40 | — | — | [f]0·05 | 13·45 |
| 1939 | 7·10 | 13·00 | — | — | — | 20·10 |
| 1940 | 2·95 | — | — | — | — | 2·95 |
| 1941 | 6·00 | — | — | — | — | 6·00 |
| 1942 | 9·20 | — | — | — | — | 9·20 |
| 1943 | 8·70 | 0·15 | — | — | — | 8·85 |
| 1944 | 0·35 | — | — | — | — | 0·35 |
| 1945 | — | — | — | — | — | — |
| 1946 | 8·25 | — | — | — | — | 8·25 |
| 1947 | 1·00 | — | — | — | — | 1·00 |
| 1948 | 3·20 | — | — | — | — | 3·20 |
| 1949 | 5·80 | — | — | — | — | 5·80 |
| 1950 | 4·75 | — | — | — | — | 4·75 |
| 1951 | 0·30 | — | — | — | — | 0·30 |
| 1952 | 0·10 | — | — | — | — | 0·10 |
| 1953 | 2·15 | — | — | — | — | 2·15 |
| 1954 | 0·85 | — | — | — | — | 0·85 |
| 1955 | 2·80 | — | — | — | — | 2·80 |
| 1956 | 0·10 | — | — | — | — | 0·10 |
| 1957 | 2·75 | — | — | — | — | 2·75 |
| 1958 | 4·50 | — | — | — | — | 4·50 |
| 1959–60 | — | — | — | — | — | — |
| 1961 | 0·25 | — | — | — | — | 0·25 |
| 1962 | 1·25 | — | — | — | — | 1·25 |
| 1963 | 11·60 | — | — | — | — | 11·60 |
| Total | 1,587·02 | 99·65 | 21·85 | 0·65 | 0·75 | 1,709·92 |

[a]Ukalunda. [b]Rosedale. [c]Coen. [d]2 tons from Charters Towers, ·05 tons from Oaks [f]Charters Towers. [g]Mareeba Gold and Mineral Field established 1st January, 1949.

## MOLYBDENITE PRODUCTION—NEW SOUTH WALES

(Molybdenite concentrates, approximately 90 per cent $MoS_2$)

| Year | Glen Innes District (Kingsgate) | Deepwater District (Deep-water) | Pambula District (Whip-stick) | Tenterfield District (Rocky River) | Bathurst District (Yetholme) | Miscel-laneous | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1902 | 14·00 | 1·00 | — | — | — | — | 15·00 |
| 1903 | [a]29·00 | — | — | — | — | — | 29·00 |
| 1904 | 25·10 | — | — | — | — | [c]0·15 | 25·25 |
| 1905 | 19·40 | — | — | — | — | — | 19·40 |
| 1906 | 32·65 | — | — | — | — | — | 32·65 |
| 1907 | 21·65 | — | — | — | — | — | 21·65 |
| 1908 | 8·45 | — | — | — | — | — | 8·45 |
| 1909 | 28·15 | — | — | — | — | — | 28·15 |
| 1910 | 47·50 | — | — | — | — | — | 47·50 |
| 1911 | [a]20·65 | — | — | — | — | — | 20·65 |
| 1912 | 0·50 | — | [e]2·50 | — | — | — | [e]18·50 |
| 1913 | 0·80 | [e]7·00 | 16·00 | — | — | — | [e]39·80 |
| 1914 | 11·20 | 4·50 | 9·00 | [e]2·50 | [e]3·00 | — | [e]24·30 |
| 1915 | 16·40 | 7·75 | 12·00 | 3·10 | 0·50 | — | 31·70 |
| 1916 | 17·90 | 11·15 | 25·50 | 1·15 | 0·30 | — | 53·82 |
| 1917 | 10·15 | 37·65 | 20·00 | 1·20 | 2·00 | — | 70·24 |
| 1918 | 15·75 | 36·50 | [e]20·00 | 2·50 | [e]20·00 | [d]3·00 | 92·96 |
| 1919 | 7·15 | 38·00 | 4·90 | 4·50 | 9·00 | [f]3·10 | 65·83 |
| 1920 | 9·94 | 12·50 | 2·00 | 3·00 | — | [g]2·75 | 30·00 |
| 1921 | — | — | — | — | — | — | — |
| 1922 | — | — | — | — | — | — | [b]2·00 |
| 1923 | 8·00 | — | — | 1·00 | — | — | 9·50 |
| 1924 | 5·50 | 3·40 | — | — | — | — | 10·50 |
| 1925 | 5·50 | — | — | — | — | — | 6·00 |
| 1926 | 0·40 | — | — | — | — | — | 0·40 |
| 1927 | — | — | — | — | — | — | — |
| 1928 | — | — | — | — | — | — | [b]2·00 |
| 1929 | — | 0·50 | — | — | — | — | 0·50 |
| 1930 | 3·00 | 0·15 | — | — | — | — | 3·15 |
| 1931 | 0·10 | 0·20 | — | — | — | — | 0·30 |
| 1932 | 0·20 | 3·30 | — | — | — | — | 3·50 |

[a]Includes small amounts from other unspecified localities. [b]Not all accounted for in previous columns. [c]Small quantity from Warrell Creek, near Macksville. [d]Moonbi. [f]1 from Moonbi; 3 from Booroolong. [g]Booroolong. [h]2 from Moonbi; 1 from Hillgrove. [j]Bolivia. [k]Nalbaugh (Wog Mountain). [l]Hillgrove.

MOLYBDENITE PRODUCTION—NEW SOUTH WALES—*continued*

(Molybdenite concentrates, approximately 90 per cent $MoS_2$)

| Year | Glen Innes District (Kingsgate) | Deepwater District (Deep-water) | Pambula District (Whip-stick) | Tenterfield District (Rocky River) | Bathurst District (Yetholme) | Miscel-laneous | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1933 | — | 5·50 | — | — | — | — | 5·50 |
| 1934 | — | 1·80 | — | 0·60 | — | — | 3·25 |
| 1935 | — | — | — | — | — | — | — |
| 1936 | — | 0·15 | — | — | — | — | 0·15 |
| 1937 | — | [e]8·00 | — | — | — | [h]0·30 | [e]8·30 |
| 1938 | — | 8·00 | — | 0·10 | — | [j]0·55 | 8·65 |
| 1939 | — | 25·00 | — | — | — | — | 25·00 |
| 1940 | — | 11·40 | — | — | — | — | 11·80 |
| 1941 | [e]0·20 | [e]4·80 | — | — | — | [ek]0·50 | [e]5·50 |
| 1942 | — | 0·70 | — | 0·03 | — | — | [b]0·83 |
| 1943 | 0·63 | 7·36 | — | — | — | [l]0·20 | 8·19 |
| 1944 | 0·30 | 4·80 | — | — | — | — | 5·10 |
| 1945 | 0·42 | — | — | — | — | — | 0·42 |
| 1946 | — | — | — | — | — | — | — |
| 1947 | 0·95 | 2·15 | — | — | — | — | 3·10 |
| 1948 | 0·25 | — | — | — | — | — | 0·25 |
| 1949 | 0·10 | — | — | — | — | — | 0·10 |
| 1950 | — | — | — | — | — | — | — |
| 1951 | 1·79 | — | — | — | — | — | 1·79 |
| 1952 | 0·03 | — | — | — | — | — | 0·03 |
| 1953–4 | — | — | — | — | — | — | — |
| 1955 | 0·03 | — | — | — | — | — | 0·03 |
| 1956–61 | — | — | — | — | — | — | — |
| Total | 357·24 | 243·61 | 111·90 | 19·68 | 34·80 | 10·55 | 800·69 |

[a]Includes small amounts from other unspecified localities. [b]Not all accounted for in previous columns. [e]Small quantity from Warrell Creek, near Macksville. [d]Moonbi. [f]1 from Moonbi; 3 from Booroolong. [g]Booroolong. [h]2 from Moonbi; 1 from Hillgrove. [j]Bolivia. [k]Nalbaugh (Wog Mountain). [l]Hillgrove.

# MOLYBDENUM

## MOLYBDENITE PRODUCTION—VICTORIA

(Molybdenite concentrates, approximately 90 per cent $MoS_2$)

| Year | Everton | Korong Vale | Total |
|---|---|---|---|
| | tons | tons | tons |
| 1917 | 1·30 | — | 1·30 |
| 1918 | 2·70 | — | 2·70 |
| 1919 | 9·70 | — | 9·80 |
| 1920 | | 0·10 | |
| 1921 | 0·25 | — | 0·25 |
| 1922 | 13·30 | — | 13·30 |
| 1923 | 47·20 | — | 47·20 |
| 1924 | 39·70 | — | 39·70 |
| 1925 | 32·30 | — | 32·20 |
| 1926 | 39·30 | — | 39·30 |
| 1927–36 | — | — | — |
| 1937 | 29·00 | — | 29·00 |
| 1938 | 33·50 | — | 33·50 |
| 1939 | 26·00 | — | 26·00 |
| 1940 | 20·75 | — | 20·75 |
| 1941 | — | — | — |
| 1942 | 5·00 | — | 5·00 |
| 1943 | 8·00 | — | 8·00 |
| 1944 | 12·00 | — | 12·00 |
| 1945–64 | — | — | — |
| Total | 319·90 | 0·10 | 320·00 |

# MONAZITE

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Monazite Concentrates—Exports—Australia .. .. .. .. .. 324

# MONAZITE

## MONAZITE PRODUCTION[a]—AUSTRALIA

| Year | Queensland | | New South Wales | | Western Australia | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Cons | Monazite Content | Cons | Monazite Content | Cons | Monazite Content | Cons | Monazite Content |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1949 | — | — | 24 | 22 | — | — | 24 | 22 |
| 1950 | 5 | 4 | 27 | 25 | — | — | 32 | 29 |
| 1951 | — | — | 32 | 30 | — | — | 32 | 30 |
| 1952 | 27 | 25 | 88 | 81 | — | — | 115 | 106 |
| 1953 | 80 | 76 | 117 | 106 | — | — | 197 | 182 |
| 1954 | 10 | 9 | 69 | 62 | — | — | 79 | 71 |
| 1955 | 47 | 44 | 117 | 105 | — | — | 164 | 149 |
| 1956 | 6 | 6 | 96 | 87 | — | — | 102 | 93 |
| 1957 | 89 | 85 | 52 | 47 | — | — | 141 | 132 |
| 1958 | 118 | 109 | 226 | 210 | 110 | 104 | 454 | 423 |
| 1959 | 81 | 77 | 187 | 173 | 90 | e81 | 358 | e331 |
| 1960 | 80 | 76 | 40 | 38 | 242 | e232 | 362 | e344 |
| 1961 | 138 | 127 | 154 | 144 | 1,255 | e1,192 | 1,547 | e1,463 |
| 1962 | 69 | 66 | 145 | 136 | 600 | e570 | 814 | e772 |
| 1963 | 235 | 223 | 515 | 471 | 1,313 | e1,248 | 2,063 | 1,942 |
| 1964 | 248 | 236 | 666 | 600 | 1,126 | 1,070 | 2,040 | 1,906 |

[a]Sales or dispatches.

## MONAZITE CONCENTRATES —EXPORTS—AUSTRALIA

| Year | tons | £A f.o.b. |
|---|---|---|
| 1954 | 75 | 8,819 |
| 1955 | 107 | 17,491 |
| 1956 | 56 | 9,456 |
| 1957 | 145 | 22,655 |
| 1958 | 102 | 6,790 |
| 1959 | 150 | 5,770 |
| 1960 | 158 | 4,739 |
| 1961 | 1,802 | 53,086 |
| 1962 | 1,460 | 60,196 |
| 1963 | 2,313 | 96,545 |
| 1964 | 2,041 | 89,829 |

# NICKEL

Nickel Production—Australia .. .. .. .. .. .. .. 326

Nickel and Nickel Base Alloys—Exports—Australia .. .. .. .. 326

Nickel—Imports .. .. .. .. .. .. .. .. .. 327

NICKEL PRODUCTION[a]—AUSTRALIA
(Nickel content in long tons)

| | |
|---|---|
| 1913 | [e]440 |
| 1914 | |
| 1915–27 | [b] |
| 1928 | 10 |
| 1929 | 85·44 |
| 1930 | 11·76 |
| 1931 | 0·20 |
| 1932 | 0·55 |
| 1933 | 8·65 |
| 1934 | — |
| 1935 | — |
| 1936 | — |
| 1937 | — |
| 1938 | 19·75 |
| 1939–64 | — |
| Total | [e]576 |

[a]Entire production from Zeehan, Tasmania. [b]Mines Department statistics record nickel production in 1927 as 86·2 tons. This figure refers to the sale of some 800 tons of nickel ore held in stock since 1914 when war cut off the German market.

NICKEL AND NICKEL BASE ALLOYS[a]—EXPORTS—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1945–46 | 17 | 1,580 | 1956 | 80 | 37,323 |
| 1946–47 | 1,988 | 322,215 | 1957 | 28 | 11,481 |
| 1948 | — | — | 1958 | 31 | 7,975 |
| 1949 | 12 | 474 | 1959 | 139 | 19,729 |
| 1950 | 122 | 12,430 | 1960 | 104 | 26,343 |
| 1951 | 1 | 425 | 1961 | 97 | 32,907 |
| 1952 | [b] | 137 | 1962 | 107 | 30,675 |
| 1953 | 36 | 6,125 | 1963 | 133 | 52,194 |
| 1954 | 40 | 8,609 | 1964 | 260 | 83,002 |
| 1955 | 95 | 19,934 | | | |

[a]Not recorded separately prior to 1st July, 1945.

## NICKEL—IMPORTS—AUSTRALIA
(Pigs, ingots, bars, rods, etc., excluding import of nickel anodes)

| Year | tons | £A f.o.b. | Year | tons | £A f.o.b. |
|---|---|---|---|---|---|
| 1918-19 | 5 | 1,162 | 1932-33 | 56 | 14,505 |
| 1919-20 | 2 | 3,183 | 1933-34 | 73 | 15,694 |
| | | | 1934-35 | 73 | 20,382 |
| 1920-21 | 12 | 3,659 | | | |
| 1921-22 | 32 | 4,253 | 1935-36 | 84 | 20,073 |
| 1922-23 | 21 | 3,665 | 1936-37 | 167 | 33,613 |
| 1923-24 | 74 | 10,360 | 1937-38 | 152 | 31,047 |
| 1924-25 | 52 | 6,917 | 1938-39 | 228 | 49,351 |
| | | | 1939-40 | 478 | 113,266 |
| 1925-26 | 51 | 8,409 | | | |
| 1926-27 | 85 | 12,030 | 1940-41 | 4,589 | 607,831 |
| 1927-28 | 35 | 6,562 | 1941-42 | 3,704 | 795,264 |
| 1928-29 | 26 | 4,265 | 1942-43 | 1,551 | 253,595 |
| 1929-30 | 30 | 5,208 | 1943-44 | 399 | 61,427 |
| | | | 1944-45 | 77 | 20,767 |
| 1930-31 | 16 | 2,321 | | | |
| 1931-32 | 28 | 6,957 | | | |

| | Pigs, ingots | | Bars, rods | |
|---|---|---|---|---|
| | tons | £A f.o.b. | tons | £A f.o.b. |
| 1946 | 147 | 35,214 | 17 | 7,834 |
| 1947 | 796 | 194,988 | 23 | 9,115 |
| 1948 | 285 | 73,978 | 32 | 21,118 |
| 1949 | 1,221 | 352,012 | 58 | 39,180 |
| 1950 | 407 | 161,602 | 57 | 27,960 |
| 1951 | 302 | 164,631 | 42 | 19,771 |
| 1952 | 613 | 345,353 | 10 | 9,766 |
| 1953 | 632 | 377,459 | 20 | 20,997 |
| 1954 | 527 | 324,142 | 17 | 17,448 |
| 1955 | 572 | 376,623 | 18 | 18,707 |
| 1956 | 683 | 476,092 | 130 | 117,342 |
| 1957 | 867 | 589,397 | 45 | 40,995 |
| 1958 | 674 | 506,308 | 16 | 23,102 |
| 1959 | 806 | 608,279 | 22 | 26,574 |
| 1960 | 1,518 | 1,135,990 | 14 | 18,006 |

| | Pigs, ingots | | Granulated | | | | Anodes | |
|---|---|---|---|---|---|---|---|---|
| | tons | £A f.o.b. | tons | £A f.o.b. | | | tons | £A f.o.b. |
| 1961 | 106 | 78,756 | 262 | 203,520 | 23 | 33,480 | 436 | 347,153 |
| 1962 | 249 | 181,006 | 105 | 84,792 | 52 | 53,277 | 644 | 662,683 |
| 1963 | 519 | 406,505 | 474 | 380,122 | 65 | 59,290 | 583 | 570,308 |
| 1964 | 637 | 496,178 | 462 | 370,668 | 29 | 34,102 | 557 | 521,050 |

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# PETROLEUM

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Crude Oil and Petroleum Products—Imports—Australia .. .. 333–334

## CRUDE OIL PRODUCTION—AUSTRALIA

The first commercial oil field, at Moonie, Queensland, commenced production in 1964. Production to the end of 1964 was 52,160,565 gallons.

## REFINED PETROLEUM PRODUCTS—PRODUCTION—AUSTRALIA

| Product | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 |
|---|---|---|---|---|---|---|---|
| | '000 gals. | '000 gals. | '000 gals. | '000 gals. | '000 gals. | '000 gals. | '000 gals |
| Motor spirit | 6,096 | 37,991 | 58,788 | 75,590 | 74,126 | 91,438 | 95,46 |
| Aviation gasoline | — | — | — | — | — | — | — |
| Aviation turbine fuel | — | — | — | — | — | — | 42 |
| Kerosene, lighting | — | — | — | — | — | — | — |
| Kerosene, power | 3,304 | 3,609 | 3,610 | 2,848 | 243 | 34 | 25 |
| Diesel oil, automotive | 473 | 2,878 | 1,222 | 3,116 | 11,428 | 9,720 | 8,99 |
| Diesel oil, industrial | 5,949 | 1,284 | 6,805 | 14,696 | 26,233 | 29,962 | 28,09 |
| Fuel oil | 22,050 | 36,751 | 33,830 | 42,109 | 50,494 | 70,959 | 79,01 |
| Refinery fuels | n.a. | n.a. | n.a. | n.a. | 4,891 | 6,225 | 7,01 |
| Bitumen | — | — | 7,101 | 11,291 | 13,251 | 17,360 | 20,61 |
| Lubricating oil | — | 161 | 112 | 1,623 | 5,724 | 7,873 | 6,14 |
| Other products[a] | — | 15 | 1,142 | 1,503 | 439 | 321 | 34 |

[a] Includes solvents, liquefied petroleum gas and domestic gas (fuel oil equivalent.)

## REFINED PETROLEUM PRODUCTS—PRODUCTION—AUSTRALIA—*continued*

| Product | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 |
|---|---|---|---|---|---|---|---|
| | '000 gals. | '000 gals. | '000 gals. | '000 gals. | '000 gals. | '000 gals. | '000 gals |
| Motor spirit | 107,892 | 243,759 | 455,578 | 734,173 | 864,068 | 983,113 | 990,60 |
| Aviation gasoline | — | — | — | 10,255 | 14,914 | 16,100 | 11,69 |
| Aviation turbine fuel | 382 | 202 | 626 | 20,269 | 33,831 | 34,712 | 56,33 |
| Kerosene, lighting | — | — | — | — | 9,981 | 12,670 | 14,55 |
| Kerosene, power | 174 | 199 | 4,609 | 5,710 | 4,939 | 17,703 | 21,39 |
| Diesel oil, automotive | 10,785 | 15,914 | 76,040 | 145,819 | 170,638 | 210,815 | 274,17 |
| Diesel oil, industrial | 30,982 | 82,193 | 164,086 | 276,129 | 276,959 | 344,465 | 266,40 |
| Fuel oil | 77,490 | 119,273 | 436,979 | 608,433 | 660,122 | 658,331 | 683,88 |
| Refinery fuels | 7,930 | 18,837 | 77,489 | 121,686 | 133,845 | 160,377 | 186,21 |
| Bitumen | 22,984 | 30,379 | 36,596 | 44,196 | 46,166 | 52,221 | 60,36 |
| Lubricating oil | 3,850 | 6,916 | 8,868 | 8,767 | 8,193 | 7,612 | 7,46 |
| Other products[a] | 500 | 1,268 | 5,279 | 7,635 | 8,020 | 13,335 | 19,01 |

[a] Includes solvents, liquefied petroleum gas and domestic gas (fuel oil equivalent.)

## REFINED PETROLEUM PRODUCTS—PRODUCTION—AUSTRALIA—*continued*

| Product | 1960 | 1961 | 1962 | 1963 | 1964 |
|---|---|---|---|---|---|
| | '000 gals. | '000 gals. | '000 gals. | '000 gals. | '000 gals. |
| Motor spirit | 1,094,481 | 1,184,032 | 1,218,786 | 1,314,659 | 1,417,330 |
| Aviation gasoline | 15,058 | 13,605 | 10,161 | 8,725 | 9,820 |
| Aviation turbine fuel | 68,130 | 85,093 | 77,405 | 79,619 | 98,534 |
| Kerosene, lighting | 25,075 | 30,809 | 26,424 | 23,699 | 32,284 |
| Kerosene, power | 21,990 | 7,769 | 16,893 | 25,159 | 25,137 |
| Diesel oil, automotive | 391,909 | 411,538 | 439,141 | 441,678 | 437,706 |
| Diesel oil, industrial | 283,796 | 262,281 | 232,005 | 270,653 | 226,639 |
| Fuel oil | 753,381 | 878,237 | 1,004,263 | 1,123,894 | 1,171,575 |
| Refinery fuels | 197,179 | 218,617 | 253,472 | 308,239 | 378,275 |
| Bitumen | 61,271 | 63,178 | 65,479 | 70,273 | 77,651 |
| Lubricating oil | 7,256 | 5,347 | 3,687 | 19,259 | 48,921 |
| Other products[a] | 27,971 | 31,320 | 57,360 | 95,918 | 110,098 |

[a] Includes solvents, liquefied petroleum gas and domestic gas (fuel oil equivalent.)

| Year | Residual and diesel oils[a] | | Motor spirit | | Total[b] | |
|---|---|---|---|---|---|---|
| | Quantity | Value | Quantity | Value | Quantity | Value |
| | '000 gals. | f.o.b. £'000 | '000 gals. | f.o.b. £'000 | '000 gals. | f.o.b. £'000 |
| 1904 | 16 | † | 73 | 4 | 796 | 36 |
| 1905 | 6 | † | 117 | 6 | 680 | 33 |
| 1906 | 2 | † | 187 | 9 | 715 | 34 |
| 1907 | 1 | † | 121 | 4 | 793 | 36 |
| 1908 | 5 | † | 327 | 12 | 1,362 | 60 |
| 1909 | 33 | 1 | 148 | 7 | 648 | 53 |
| 1910 | 7 | † | 120 | 7 | 623 | 31 |
| 1911 | 34 | † | 207 | 11 | 751 | 36 |
| 1912 | 124 | 2 | 307 | 16 | 997 | 47 |
| 1913 | 113 | 1 | 301 | 18 | 995 | 52 |
| 1914 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| 1914–15 | 106 | 2 | 176 | 12 | 928 | 50 |
| 1915–16 | 181 | 2 | 203 | 16 | 1,130 | 64 |
| 1916–17 | 182 | 2 | 178 | 13 | 1,058 | 65 |
| 1917–18 | 149 | 3 | 189 | 17 | 1,134 | 84 |
| 1918–19 | 153 | 3 | 127 | 14 | 1,107 | 85 |
| 1919–20 | 203 | 5 | 201 | 19 | 1,213 | 108 |
| 1920–21 | 310 | 11 | 714 | 109 | 1,967 | 228 |
| 1921–22 | 296 | 8 | 732 | 118 | 1,839 | 223 |
| 1922–23 | 180 | 4 | 236 | 23 | 1,093 | 81 |
| 1923–24 | 115 | 3 | 952 | 56 | 1,839 | 111 |
| 1924–25 | 1,347 | 20 | 1,023 | 97 | 3,139 | 172 |
| 1925–26 | 298 | 8 | 990 | 78 | 1,857 | 128 |
| 1926–27 | 476 | 10 | 179 | 16 | 1,239 | 67 |
| 1927–28 | 409 | 9 | 195 | 14 | 1,204 | 75 |
| 1928–29 | 182 | 5 | 100 | 7 | 2,154 | 77 |
| 1929–30 | 127 | 5 | 100 | 7 | 1,402 | 80 |
| 1930–31 | 50 | 1 | 42 | 2 | 928 | 45 |
| 1931–32 | 85 | 1 | 163 | 4 | 1,430 | 53 |
| 1932–33 | 341 | 9 | 1,752 | 38 | 2,943 | 87 |
| 1933–34 | 177 | 2 | 531 | 7 | 1,485 | 45 |
| 1934–35 | 678 | 6 | 424 | 7 | 1,649 | 41 |
| 1935–36 | 502 | 7 | 682 | 35 | 1,872 | 94 |
| 1936–37 | 1,503 | 12 | 1,216 | 84 | 3,469 | 171 |
| 1937–38 | 1,267 | 13 | 1,102 | 109 | 3,321 | 218 |
| 1938–39 | 458 | 9 | 486 | 43 | 1,450 | 117 |
| 1939–40 | 251 | 8 | 1,015 | 106 | 2,059 | 222 |
| 1940–41 | 943 | 27 | 462 | 52 | 2,072 | 183 |
| 1941–42 | 1,181 | 47 | 1,938 | 249 | 3,895 | 423 |
| 1942–43 | 2,169 | 130 | 13,338 | 1,248 | 17,504 | 1,638 |
| 1943–44 | 2,125 | 145 | 29,321 | 1,570 | 35,254 | 3,263 |
| 1944–45 | 5,330 | 299 | 22,020 | 1,598 | 30,374 | 2,403 |
| 1945–46 | 2,068 | 96 | 17,402 | 1,022 | 22,274 | 1,522 |
| 1946–47 | 15,839 | 207 | 3,720 | 308 | 22,100 | 762 |
| 1947–48 | 6,409 | 229 | 3,930 | 303 | 11,927 | 737 |
| 1948–49 | 1,490 | 97 | 2,173 | 232 | 3,822 | 518 |

[a] Includes solar oil. [b] Includes other mineral spirits and oils.

| Year | Residual and diesel oils[a] | | Motor spirit | | Total[b] | |
|---|---|---|---|---|---|---|
| | Quantity | Value | Quantity | Value | Quantity | Value |
| | '000 gals. | f.o.b. £'000 | '000 gals. | f.o.b. £'000 | '000 gals. | f.o.b. £'000 |
| 1950 | 1,906 | 96 | 1,514 | 172 | 5,607 | 588 |
| 1951 | 1,975 | 138 | 959 | 116 | 5,339 | 743 |
| 1952 | 4,446 | 416 | 1,485 | 186 | 9,651 | 1,213 |
| 1953 | 2,189 | 145 | 634 | 80 | 4,617 | 611 |
| 1954 | 14,399 | 466 | 891 | 106 | 18,525 | 1,077 |
| 1955 | 44,309 | 1,854 | 37,769 | 2,124 | 84,517 | 4,488 |
| 1956 | 150,565 | 6,702 | 18,832 | 1,118 | 182,041 | 9,197 |
| 1957 | 177,321 | 9,724 | 34,555 | 2,660 | 217,666 | 13,202 |
| .)58 | 245,134 | 11,642 | 78,889 | 4,650 | 336,289 | 17,578 |
| 1959 | 236,457 | 11,536 | 30,928 | 1,949 | 286,700 | 15,098 |
| 1960 | 354,294 | 17,552 | 31,604 | 2,215 | 409,000 | 21,914 |
| 1961 | 377,629 | 14,979 | 59,727 | 3,242 | 485,885 | 21,631 |
| 1962 | 515,884 | 18,664 | 31,048 | 1,989 | 570,290 | 22,619 |
| 1963 | 511,542 | 17,912 | 50,918 | 2,766 | 601,023 | 24,116 |
| 1964 | 310,833 | 10,257 | 50,309 | 2,578 | 389,474 | 16,075 |

[a] Includes solar oil. [b] Includes other mineral spirits and oils.

| Year | Crude petroleum[a] | | Motor spirit | | Total[b] | |
|---|---|---|---|---|---|---|
| | Quantity | Value | Quantity | Value | Quantity | Value |
| | '000 gals. | f.o.b. £'000 | '000 gals. | f.o.b. £'000 | '000 gals. | f.o.b. £'000 |
| 1904 | † | † | 384 | 21 | 17,759 | 720 |
| 1905 | 7 | † | 500 | 25 | 18,956 | 711 |
| 1906 | † | † | 856 | 43 | 19,352 | 726 |
| 1907 | 4 | † | 862 | 43 | 23,644 | 882 |
| 1908 | 15 | † | 1,560 | 80 | 23,137 | 875 |
| 1909 | 3 | † | 1,626 | 93 | 24,725 | 1,054 |
| 1910 | † | † | 2,617 | 133 | 27,928 | 1,139 |
| 1911 | — | — | 4,528 | 233 | 30,461 | 1,146 |
| 1912 | † | † | 12,295 | 676 | 44,418 | 1,711 |
| 1913 | † | † | 9,813 | 651 | 37,216 | 1,670 |
| 1913–14 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| 1914–15 | † | † | 12,447 | 881 | 43,475 | 1,956 |
| 1915–16 | 1 | † | 16,723 | 1,118 | 51,997 | 2,398 |
| 1916–17 | 2 | † | 20,412 | 1,874 | 55,873 | 3,184 |
| 1917–18 | — | — | 17,089 | 1,727 | 39,755 | 2,905 |
| 1918–19 | 1 | † | 20,749 | 2,243 | 50,796 | 4,148 |
| 1919–20 | † | † | 24,891 | 3,007 | 51,996 | 4,563 |
| 1920–21 | † | † | 35,069 | 5,010 | 74,229 | 8,955 |
| 1921–22 | † | † | 33,985 | 3,864 | 60,377 | 5,565 |
| 1922–23 | 8,397 | 128 | 45,800 | 4,365 | 88,720 | 6,324 |
| 1923–24 | 25,456 | 438 | 66,609 | 5,269 | 125,591 | 7,780 |
| 1924–25 | 41,833 | 626 | 89,751 | 6,737 | 166,349 | 9,548 |
| 1925–26 | 55,290 | 837 | 115,567 | 8,165 | 209,877 | 11,345 |
| 1926–27 | 77,693 | 1,142 | 145,703 | 8,328 | 271,891 | 12,525 |
| 1927–28 | 74,417 | 992 | 177,871 | 7,624 | 302,970 | 11,164 |
| 1928–29 | 104,594 | 1,076 | 199,988 | 8,537 | 362,338 | 12,738 |
| 1929–30 | 122,100 | 1,400 | 239,876 | 9,305 | 419,470 | 13,680 |
| 1930–31 | 92,354 | 988 | 170,696 | 5,078 | 328,412 | 8,086 |
| 1931–32 | 49,479 | 562 | 156,027 | 3,284 | 301,871 | 5,597 |
| 1932–33 | 58,333 | 609 | 180,885 | 4,031 | 355,053 | 6,989 |
| 1933–34 | 57,656 | 611 | 208,571 | 3,573 | 384,564 | 6,133 |
| 1934–35 | 55,313 | 577 | 212,319 | 3,389 | 407,480 | 6,100 |
| 1935–36 | 64,827 | 676 | 254,509 | 4,751 | 472,581 | 7,713 |
| 1936–37 | 59,622 | 653 | 281,926 | 5,669 | 509,134 | 8,836 |
| 1937–38 | 70,233 | 755 | 332,746 | 6,893 | 600,843 | 11,041 |
| 1938–39 | 54,334 | 561 | 345,184 | 6,526 | 603,348 | 10,162 |
| 1939–40 | 72,376 | 931 | 353,062 | 8,644 | 675,585 | 14,728 |
| 1940–41 | 77,176 | 1,045 | 237,451 | 4,796 | 541,522 | 10,118 |
| 1941–42 | 49,427 | 889 | 265,342 | 9,099 | 649,037 | 16,958 |
| 1942–43 | 336 | 6 | 346,914 | 10,627 | 722,436 | 18,606 |
| 1943–44 | 655 | 5 | 371,733 | 12,445 | 862,004 | 25,237 |
| 1944–45 | 49 | 3 | 287,236 | 9,306 | 820,223 | 21,831 |
| 1945–46 | 15,683 | 252 | 370,808 | 9,881 | 889,146 | 22,044 |
| 1946–47 | 63,085 | 1,205 | 356,899 | 9,822 | 770,176 | 21,214 |
| 1947–48 | 82,369 | 2,497 | 403,976 | 13,844 | 924,091 | 30,688 |
| 1948–49 | 118,892 | 3,759 | 441,538 | 17,513 | 1,102,009 | 39,613 |

[a] Includes crude oil enriched with distillate. [b] Includes other refined mineral spirits and oils.

## CRUDE OIL AND PETROLEUM PRODUCTS —IMPORTS—AUSTRALIA—*continued*

| Year | Crude petroleum[a] | | Motor spirit | | Total[b] | |
|---|---|---|---|---|---|---|
| | Quantity | Value | Quantity | Value | Quantity | Value |
| | '000 gals. | f.o.b. £'000 | '000 gals. | f.o.b. £'000 | '000 gals. | f.o.b. £'000 |
| 1950 | 192,134 | 6,473 | 501,252 | 25,661 | 1,310,437 | 58,725 |
| 1951 | 196,428 | 6,541 | 568,970 | 31,370 | 1,500,065 | 71,993 |
| 1952 | 243,667 | 8,348 | 591,137 | 32,488 | 1,547,205 | 77,374 |
| 1953 | 240,140 | 7,988 | 606,732 | 35,444 | 1,491,846 | 73,561 |
| 1954 | 510,149 | 17,882 | 567,356 | 30,290 | 1,781,308 | 82,039 |
| 1955 | 1,266,125 | 34,961 | 483,683 | 26,896 | 2,285,834 | 92,767 |
| 1956 | 1,988,650 | 52,742 | 268,149 | 15,355 | 2,623,771 | 92,171 |
| 1957 | 2,261,144 | 63,731 | 132,900 | 7,523 | 2,668,132 | 91,772 |
| 1958 | 2,537,218 | 71,858 | 158,452 | 8,411 | 2,905,712 | 97,298 |
| 1959 | 2,638,936 | 70,149 | 195,801 | 10,726 | 3,065,987 | 99,067 |
| 1960 | 2,936,587 | 74,666 | 208,089 | 11,110 | 3,355,240 | 101,981 |
| 1961 | 3,242,043 | 78,286 | 158,558 | 8,066 | 3,635,576 | 103,643 |
| 1962 | 3,377,290 | 78,080 | 199,263 | 10,681 | 3,839,709 | 107,313 |
| 1963 | 3,863,406 | 88,223 | 218,805 | 11,953 | 4,302,196 | 117,017 |
| 1964 | 3,925,517 | 89,636 | 247,534 | 13,148 | 4,413,111 | 119,464 |

[a] Includes crude oil enriched with distillate. [b] Includes other refined mineral spirits and oils.

# PHOSPHATES

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PHOSPHATE ROCK PRODUCTION—AUSTRALIA

| Year | Queensland[a] Holbourne Island | New South Wales | Victoria Mansfield | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1876–1902 | — | — | — | — | [i]112,749 | [i]112,749 |
| 1903 | — | — | — | 1,000 | 2,668 | 3,668 |
| 1904 | — | — | — | 3,000 | 2,848 | 5,848 |
| 1905 | — | — | — | 5,000 | 532 | 5,000 |
| 1906 | — | — | — | 5,850 | | 6,382 |
| 1907 | — | — | — | 8,000 | 2,015 | 10,015 |
| 1908 | — | — | — | 11,000 | 2,009 | 13,009 |
| 1909 | — | — | — | 3,772 | 1,700 | 5,472 |
| 1910 | — | — | — | 5,200 | 950 | 6,150 |
| 1911 | — | — | — | 5,800 | 1,853 | 7,653 |
| 1912 | — | — | — | 6,100 | 1,282 | 7,382 |
| 1913 | — | — | — | 5,950 | 1,720 | 7,670 |
| 1914 | — | 700 | — | 6,083 | 1,583 | 8,366 |
| 1915 | — | 1,100 | — | 4,614 | 353 | 6,067 |
| 1916 | — | 2,042 | 400 | 5,013 | — | 7,455 |
| 1917 | — | 2,000 | 1,525 | 5,101 | — | 8,826 |
| 1918 | — | 460 | 3,384 | 8,074 | — | 11,918 |
| 1919 | — | 576 | 2,481 | 5,950 | — | 9,007 |
| 1920 | — | 154 | 4,222 | 8,753 | — | 13,129 |
| 1921 | 369 | 200 | 1,541 | 5,079 | — | 7,189 |
| 1922 | 65 | 12 | 1,096 | 2,715 | — | 3,888 |
| 1923 | — | 74 | 713 | 446 | — | 1,233 |
| 1924 | — | 107 | 532 | 84 | — | 723 |
| 1925 | — | 197 | — | 742 | — | 939 |
| 1926 | — | 253 | 120 | 882 | — | 1,255 |
| 1927 | — | 130 | — | 749 | — | 879 |
| 1928 | — | 139 | — | — | — | 139 |
| 1929 | — | 70 | — | — | — | 70 |
| 1930 | — | 26 | — | — | — | 26 |
| 1931 | — | 94 | — | 515 | — | 609 |
| 1932 | — | 225 | — | 644 | — | 869 |
| 1933 | — | 70 | — | 26 | — | 96 |
| 1934 | — | 207 | — | — | — | 207 |

[a] From Mines Department records; report of British Phosphate Commissioners states that the following tonnages were shipped from Holbourne Island 1918–21; 1918, 450 tons; 1919, 650 tons; 1920, 850 tons; 1921, 450 tons; total 2,400 tons.

PHOSPHATE ROCK PRODUCTION—AUSTRALIA—*continued*

| Year | Queensland[a] Holbourne Island | New South Wales | Victoria Mansfield | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1935 | — | 235 | — | — | — | 235 |
| 1936 | — | 175 | — | — | — | 175 |
| 1937 | — | 20 | — | — | — | 20 |
| 1938 | — | 240 | — | — | — | 240 |
| 1939 | — | 17 | — | — | — | 17 |
| 1940 | — | 20 | — | 250 | 39 | 309 |
| 1941 | — | 31 | — | 8,461 | 21 | 8,513 |
| 1942 | — | 116 | — | 13,958 | — | 14,074 |
| 1943 | — | 120 | — | 12,771 | 42 | 12,933 |
| 1944 | — | — | — | 4,101 | 2,215 | 6,316 |
| 1945 | — | — | — | 714 | 8,483 | 9,197 |
| 1946 | — | — | — | 20 | — | 20 |
| 1947 | — | 228 | — | 5,089 | — | 5,317 |
| 1948 | — | 480 | — | 1,655 | — | 2,135 |
| 1949 | — | 11 | — | — | — | 11 |
| 1950 | — | 21 | — | 1,606 | — | 1,627 |
| 1951 | — | 29 | — | 7,900 | — | 7,929 |
| 1952 | — | 10 | — | 5,534 | — | 5,544 |
| 1953 | — | — | — | 3,368 | — | 3,368 |
| 1954 | — | — | — | 6,120 | — | 6,120 |
| 1955 | — | — | — | 6,371 | — | 6,371 |
| 1956 | — | — | — | 6,788 | — | 6,788 |
| 1957 | — | — | — | 10,843 | 587 | 11,430 |
| 1958 | — | — | — | 7,251 | 170 | 7,421 |
| 1959 | — | — | — | 4,775 | — | 4,775 |
| 1960 | — | — | — | 2,234 | 87 | 2,321 |
| 1961 | — | — | — | 4,759 | 115 | 4,874 |
| 1962 | — | — | — | 4,317 | 68 | 4,385 |
| 1963 | — | — | — | 4,909 | 16 | 4,925 |
| 1964 | — | — | — | 5,689 | — | 5,689 |
| Total | 434 | 10,589 | 16,014 | 245,625 | 144,105 | 416,767 |

[a]From Mines Department records; report of British Phosphate Commissioners states that the following tonnages were shipped from Holbourne Island 1918–21; 1918, 450 tons; 1919, 650 tons; 1920, 850 tons; 1921, 450 tons; total 2,400 tons.

PHOSPHATE ROCK[a]—IMPORTS—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1905 | 15,330 | 34,494 | 1935–36 | 524,408 | 669,857 |
| 1906 | 27,354 | 63,704 | 1936–37 | 667,994 | 813,020 |
| 1907 | 38,482 | 92,248 | 1937–38 | 777,545 | 895,902 |
| 1908 | 63,383 | 165,435 | 1938–39 | 800,422 | 945,130 |
| 1909 | 50,302 | 128,921 | 1939–40 | 620,432 | 771,657 |
| 1910 | 105,607 | 264,791 | 1940–41 | 375,073 | 351,785 |
| 1911 | 86,057 | 204,663 | 1941–42 | 310,970 | 522,154 |
| 1912 | 98,182 | 233,995 | 1942–43 | 225,178 | 353,337 |
| 1913 | 160,032 | 357,874 | 1943–44 | 302,105 | 550,890 |
| 1914 | n.a. | n.a. | 1944–45 | 473,425 | 1,214,143 |
| 1914–15 | 173,273 | 357,556 | | | |
| | | | 1946 | 689,098 | 2,052,411 |
| 1915–16 | 190,689 | 396,394 | 1947 | 746,518 | 2,092,283 |
| 1916–17 | 177,828 | 400,486 | 1948 | 755,420 | 1,782,648 |
| 1917–18 | 182,152 | 390,546 | 1949 | 1,016,291 | 2,320,752 |
| 1918–19 | 140,591 | 300,632 | | | |
| 1919–20 | 129,258 | 297,490 | 1950 | 1,224,827 | 2,470,164 |
| | | | 1951 | 1,050,263 | 2,317,771 |
| 1920–21 | 237,807 | 649,447 | 1952 | 1,094,977 | 2,281,338 |
| 1921–22 | 167,790 | 497,798 | 1953 | 1,181,709 | 2,319,309 |
| 1922–23 | 169,505 | 464,453 | 1954 | 1,160,397 | 2,254,535 |
| 1923–24 | 234,879 | 610,619 | | | |
| 1924–25 | 287,579 | 665,629 | 1955 | 1,250,929 | 2,575,117 |
| | | | 1956 | 1,331,636 | 2,770,315 |
| 1925–26 | 323,187 | 719,346 | 1957 | 1,035,143 | 2,621,619 |
| 1926–27 | 508,583 | 998,473 | 1958 | 1,500,597 | 3,894,311 |
| 1927–28 | 461,006 | 824,256 | 1959 | 1,326,630 | 3,688,936 |
| 1928–29 | 617,486 | 1,162,539 | | | |
| 1929–30 | 528,955 | 1,013,678 | 1960 | 1,491,324 | 4,075,147 |
| | | | 1961 | 1,766,409 | 4,768,221 |
| 1930–31 | 430,736 | 511,898 | 1962 | 1,721,175 | 4,484,484 |
| 1931–32 | 297,425 | 400,171 | 1963 | 1,762,462 | 5,354,062 |
| 1932–33 | 478,450 | 665,754 | 1964 | 2,354,780 | 8,117,947 |
| 1933–34 | 374,019 | 540,620 | | | |
| 1934–35 | 410,065 | 555,293 | | | |

[a]Not recorded prior to 1905.

## PHOSPHATE ROCK PRODUCTION—NEW SOUTH WALES

| Year | Wellington District | Inverell District Ashford | Canowindra District (Ph. Barragan) | Molong District | Kempsey District | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1914 | 700 | — | — | — | — | 700 |
| 1915 | 1,100 | — | — | — | — | 1,100 |
| 1916 | 2,002 | 40 | — | — | — | 2,042 |
| 1917 | 2,000 | — | — | — | — | 2,000 |
| 1918 | 300 | — | 160 | — | — | 460 |
| 1919 | — | — | 576 | — | — | 576 |
| 1920 | — | — | 154 | — | — | 154 |
| 1921 | — | — | — | 200 | — | 200 |
| 1922 | — | 12 | — | — | — | 12 |
| 1923 | — | 34 | — | 40 | — | 74 |
| 1924 | — | 42 | — | 50 | 15 | 107 |
| 1925 | — | 35 | — | 130 | 32 | 197 |
| 1926 | — | 35 | — | 170 | 48 | 253 |
| 1927 | — | 60 | — | 70 | — | 130 |
| 1928 | — | 40 | — | 99 | — | 139 |
| 1929 | — | 30 | — | 40 | — | 70 |
| 1930 | — | — | — | 26 | — | 26 |
| 1931 | — | 48 | — | 46 | — | 94 |
| 1932 | — | 35 | — | 190 | — | 225 |
| 1933 | — | — | — | 70 | — | 70 |
| 1934 | — | 7 | — | 200 | — | 207 |
| 1935 | — | 15 | — | 220 | — | 235 |
| 1936 | — | 15 | — | 160 | — | 175 |
| 1937 | — | 20 | — | — | — | 20 |
| 1938 | — | 240 | — | — | — | 240 |
| 1939 | — | 17 | — | — | — | 17 |
| 1940 | — | 20 | — | — | — | 20 |
| 1941 | — | 31 | — | — | — | 31 |
| 1942 | — | 16 | — | 100 | — | 116 |
| 1943 | — | — | — | 120 | — | 120 |
| 1944 | — | — | — | — | — | — |
| 1945 | — | — | — | — | — | — |
| 1946 | — | — | — | — | — | — |
| 1947 | — | 228 | — | — | — | 228 |
| 1948 | — | 480 | — | — | — | 480 |
| 1949 | — | 11 | — | — | — | 11 |
| 1950 | — | 21 | — | — | — | 21 |
| 1951 | — | 29 | — | — | — | 29 |
| 1952 | — | 10 | — | — | — | 10 |
| 1953–64 | — | — | — | — | — | — |
| Total | 6,102 | 1,571 | 890 | 1,931 | 95 | 10,589 |

## PHOSPHATE ROCK AND APATITE PRODUCTION—SOUTH AUSTRALIA

| Year | Hundred Belvidere | | | Hundred Para Wirra | Hundred Mooroo-roo | Olary | Miscel-laneous | Total |
|---|---|---|---|---|---|---|---|---|
| | Toms | St. Johns | St. Kitts | Lower Hermitage | | (Apatite) | | |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1903-32 | n.d. | n.d. | n.d. | n.d. | — | n.d. | n.d. | 116,116 |
| 1933 | — | — | — | — | — | 26 | — | 26 |
| 1934-39 | — | — | — | — | — | — | — | — |
| 1940 | — | 250 | — | — | — | — | — | 250 |
| 1941 | 7,763 | 134 | — | 250 | — | — | 314 | 8,461 |
| 1942 | 13,246 | 16 | — | — | — | 23 | 673 | 13,958 |
| 1943 | 8,806 | 2,892 | 35 | 171 | — | — | 867 | 12,771 |
| 1944 | 1,361 | 1,457 | 499 | 441 | — | — | 343 | 4,101 |
| 1945 | n.d. | n.d. | n.d. | n.d. | — | n.d. | n.d. | 714 |
| 1946 | — | — | — | — | — | — | 20 | 20 |
| 1947 | 5,089 | — | — | — | — | — | — | 5,089 |
| 1948 | 1,655 | — | — | — | — | — | — | 1,655 |
| 1949 | — | — | — | — | — | — | — | — |
| 1950 | — | 1,606 | — | — | — | — | — | 1,606 |
| 1951 | — | 7,900 | — | — | — | — | — | 7,900 |
| 1952 | — | 5,534 | — | — | — | — | — | 5,534 |
| 1953 | — | 3,368 | — | — | — | — | — | 3,368 |
| 1954 | — | — | — | — | 3,038 | — | 3,082 | 6,120 |
| 1955 | — | — | — | — | 6,371 | — | — | 6,371 |
| 1956 | — | — | — | — | 2,220 | — | 4,568 | 6,788 |
| 1957 | — | — | — | — | 10,003 | — | 840 | 10,843 |
| 1958 | 2,247 | 1,505 | — | — | 3,499 | — | — | 7,251 |
| 1959 | — | 1,366 | — | — | 3,409 | — | — | 4,775 |
| 1960 | — | — | — | — | 2,234 | — | — | 2,234 |
| 1961 | — | 904 | — | — | 3,855 | — | — | 4,759 |
| 1962 | — | 250 | — | — | 4,067 | — | — | 4,317 |
| 1963 | — | 994 | — | — | 3,915 | — | — | 4,909 |
| 1964 | — | 252 | — | — | 5,437 | — | — | 5,689 |
| Total | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 245,625 |

n.d.—dissection not available.

GUANO AND PHOSPHATE ROCK PRODUCTION—WESTERN AUSTRALIA

(Figures very incomplete as large proportion of guano not reported)

| Year | tons |
|---|---|
| 1876 | 2,537 |
| 1877 | 15,054 |
| 1878 | 22,676 |
| 1879 | 8,602 |
| 1880 | — |
| 1881 | — |
| 1882 | 2,690 |
| 1883 | 724 |
| 1884 | 3,683 |
| 1885 | 922 |
| 1886 | 10,072 |
| 1887 | 3,360 |
| 1888 | 3,586 |
| 1889 | 3,583 |
| 1890 | 4,038 |
| 1891 | 6,225 |
| 1892 | 2,569 |
| 1893 | 3,297 |
| 1894 | 2,736 |
| 1895 | 1,459 |
| 1896 | 1,618 |
| 1897 | 1,897 |
| 1898 | 3,604 |
| 1899 | 3,092 |
| 1900 | 1,103 |
| 1901 | 1,692 |
| 1902 | 930 |
| 1903 | 2,668 |
| 1904 | 2,848 |
| 1905 | 532 |
| 1906 | |
| 1907 | 2,015 |
| 1908 | 2,009 |
| 1909 | 1,700 |
| 1910 | 950 |
| 1911 | 1,853 |
| 1912 | 1,282 |
| 1913 | 1,720 |
| 1914 | 1,583 |
| 1915 | 353 |
| Total 1876–1904 | 118,265[i] |
| Total 1905–1915 | 13,997 |

[a]Tables adopted from H. P. Woodward "The Phosphatic Deposits of Western Australia", *Geol. Surv. W. Aust. Bull. No. 74.*

LOCALITIES FROM WHICH GUANO HAS BEEN OBTAINED

| Locality | Period | Tonnage | Royalty |
|---|---|---|---|
| | | | £ |
| Jones Lesueur Stewart Island, and Black Hawk Reef .. | 1884 | 2,577 | 1,675 |
| Browse Island .. .. .. | 1876–1886 | 23,177 | 3,158 |
| Lacepede Islands .. .. | 1876–1879 | 37,226 | 18,611 |
| Bedout Island .. .. .. | 1877–1882 | 69 | 38 |
| Turtle Island .. .. .. | 1880–1882 | [a] | 3 |
| East Forestier .. .. .. | 1882 | [a] | 1 |
| Dampier Archipelago .. .. | 1880–1882 | [a] | 250 |
| Barrow Island .. .. .. | 1880–1881 | [a] | 100 |
| Montebello Island .. .. | 1880–1881 | [a] | 30 |
| Trimouille and Hermite .. | 1882 | [a] | 15 |
| Beagle Island .. .. .. | 1887 | 30 | 15 |
| Bernier Island .. .. .. | 1882 | [a] | 15 |
| Dorrie Island .. .. .. | 1882 | [a] | 8 |
| Dirk Hartog Island .. .. | 1880–1882 | [a] | 105 |
| Faure Island .. .. .. | 1880–1882 | [a] | 6 |
| Salutation Island .. .. | 1882 | [a] | 2 |
| Augustus Island .. .. | 1881–1882 | [a] | 37 |
| Abrolhos Island .. .. | 1883–1915 | 56,025 | [b] |
| Carnac Island .. .. .. | 1880 | [a] | 5 |
| Undefined Islands .. .. | 1876–1878 | 868 | 483 |

[a]No returns of tonnage raised, as it was consumed locally. [b]Tonnage only approximate. Royalty and Rent has not been computed as whole.

GUANO, ETC.—Recent production recorded by Department of Mines (W.A.)

| Year | Pelsart Island | Gingimia Cave | Dandaragan | Jurien Bay | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1940 | — | [a]39 | — | — | 39 |
| 1941 | — | 21 | — | — | 21 |
| 1942 | — | — | — | — | — |
| 1943 | — | — | 42 | — | 42 |
| 1944 | 2,215 | — | — | — | 2,215 |
| 1945 | 8,483 | — | — | — | 8,483 |
| 1946–56 | — | — | — | — | — |
| 1957 | — | — | — | 587 | 587 |
| 1958 | — | — | — | 170 | 170 |
| 1959 | — | — | — | — | — |
| 1960 | — | — | — | 87 | 87 |
| 1961 | — | — | — | 115 | 115 |
| 1962 | — | — | — | 68 | 68 |
| 1963 | — | — | — | 16 | 16 |
| 1964 | — | — | — | — | — |
| Total | 10,698 | 60 | 42 | 1,043 | 11,843 |

[a]Including 1 ton from Marchagee.

# PLATINUM GROUP METALS

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Osmiridium Production—Australia and Territories .. .. .. .. 345

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Platinum Group Metals—Exports .. .. .. .. .. .. .. 347

Platinum Group Metals—Imports .. .. .. .. .. .. 348

# PLATINUM GROUP METALS

## PLATINUM PRODUCTION—AUSTRALIA AND TERRITORIES

| Year | New South Wales | Victoria | Territory of Papua and New Guinea | Total |
|---|---|---|---|---|
| | oz | oz | oz | oz |
| 1894 | 1,060 | — | — | 1,060 |
| 1895 | 413 | — | — | 413 |
| 1896 | 2,438 | — | — | 2,438 |
| 1897 | 1,966 | — | — | 1,966 |
| 1898 | 1,250 | — | — | 1,250 |
| 1899 | 638 | — | — | 638 |
| 1900 | 530 | — | — | 530 |
| 1901 | 389 | — | — | 389 |
| 1902 | 375 | — | — | 375 |
| 1903 | 530 | — | — | 530 |
| 1904 | 535 | — | — | 535 |
| 1905 | 398 | — | — | 398 |
| 1906 | 205 | — | — | 205 |
| 1907 | 276 | — | — | 276 |
| 1908 | 135 | — | — | 135 |
| 1909 | 440 | — | — | 440 |
| 1910 | 332 | — | — | 332 |
| 1911 | 470 | 184 | — | 654 |
| 1912 | 610 | — | — | 610 |
| 1913 | 442 | 127 | — | 569 |
| 1914 | 244 | — | — | 244 |
| 1915 | 56 | — | — | 56 |
| 1916 | 82 | — | — | 82 |
| 1917 | 259 | — | — | 259 |
| 1918 | 607 | — | — | 607 |
| 1919 | 213 | — | — | 213 |
| 1920 | 796 | — | — | 796 |
| 1921 | 249 | — | — | 249 |
| 1922 | 80 | — | — | 80 |
| 1923 | 586 | — | — | 586 |
| 1924 | 646 | — | — | 646 |
| 1925 | 573 | — | — | 573 |
| 1926 | 397 | — | — | 397 |
| 1927 | 226 | — | — | 226 |
| 1928 | 354 | — | — | 354 |
| 1929 | 128 | — | — | 1 |
| 1930 | 155 | — | — | 1 |
| 1931 | 283 | — | — | 2 |
| 1932 | 336 | — | — | 3 |
| 1933 | 113 | — | — | 1 |
| 1934 | 180 | — | 96 | [a]2 |
| 1935 | 98 | — | 46 | 1 |
| 1936 | 47 | — | 21 | |
| 1937 | 46 | — | 8 | |
| 1938 | 7 | — | 41 | |
| 1939 | 7 | — | 2 | |
| 1940 | 12 | — | — | |
| 1941 | 22 | — | 5 | |
| 1942 | 2 | — | — | |
| 1943 | 3 | — | — | |
| 1944 | 2 | — | — | |
| 1945 | 2 | — | — | |
| 1946–49 | — | — | — | |
| 1950 | 16 | — | — | |
| 1951 | 8 | — | 6 | |
| 1952 | — | — | 2 | |
| 1953 | — | — | 6 | |
| 1954 | 23 | — | 19 | |
| 1955 | 7 | — | 10 | |
| 1956 | 18 | — | 9 | |
| 1957 | 17 | — | 14 | |
| 1958 | 22 | — | 28 | |
| 1959 | — | — | 10 | |
| 1960 | 4 | — | 4 | |
| 1961 | 2 | — | 5 | |
| 1962 | 2 | — | 4 | |
| 1963 | 4 | — | 5 | |
| 1964 | — | — | 1 | |
| Total | 20,366 | 311 | 342 | 21,0 |

[a]Including osmiridium

# PLATINUM GROUP METALS

## OSMIRIDIUM PRODUCTION—AUSTRALIA AND TERRITORIES

| Year | Tasmania | Territory of Papua and New Guinea | Total |
|---|---|---|---|
| | oz | oz | oz |
| 1910 | 120·000 | — | 120·000 |
| 1911 | 271·880 | — | 271·880 |
| 1912 | 778·770 | — | 778·770 |
| 1913 | 1,261·650 | — | 1,261·650 |
| 1914 | 1,018·830 | — | 1,018·830 |
| 1915 | 247·048 | — | 247·048 |
| 1916 | 222·150 | — | 222·150 |
| 1917 | 332·079 | — | 332·079 |
| 1918 | 1,606·743 | — | 1,606·743 |
| 1919 | 1,668·715 | — | 1,668·715 |
| 1920 | 2,009·196 | 88·50 | 2,097·696 |
| 1921 | 1,750·655 | 208·00 | 1,958·655 |
| 1922 | 1,173·924 | 56·00 | 1,229·924 |
| 1923 | 673·423 | 145·00 | 818·423 |
| 1924 | 364·805 | 119·00 | 843·805 |
| 1925 | 3,365·543 | 116·00 | 3,481·543 |
| 1926 | 3,202·500 | 50·00 | 3,252·500 |
| 1927 | 632·777 | 26·00 | 658·777 |
| 1928 | 1,627·186 | 36·50 | 1,663·686 |
| 1929 | 1,324·000 | 28·75 | 1,352·750 |
| 1930 | 952·700 | 28·75 | 981·450 |
| 1931 | 1,279·540 | 46·75 | 1,326·290 |
| 1932 | 784·950 | 0·75 | 785·700 |
| 1933 | 548·000 | — | 548·000 |
| 1934 | 487·700 | — | 487·700 |
| 1935 | 234·820 | 8·50 | 243·320 |
| 1936 | 280·600 | — | 280·600 |
| 1937 | 586·420 | 5·00 | 591·420 |
| 1938 | 190·870 | 3·50 | 194·370 |
| 1939 | 283·065 | 4·00 | 287·065 |
| 1940 | 464·740 | — | 464·740 |
| 1941 | 206·578 | — | 206·578 |
| 1942 | 142·094 | — | 142·094 |
| 1943 | 89·695 | — | 89·695 |
| 1944 | 107·020 | — | 107·020 |
| 1945 | 108·750 | — | 108·750 |
| 1946 | 94·522 | — | 94·522 |
| 1947 | 98·766 | — | 98·766 |
| 1948 | 92·393 | — | 92·393 |
| 1949 | 39·300 | — | 39·300 |
| 1950 | 46·141 | — | [a]48·141 |
| 1951 | 33·378 | — | [a]33·888 |
| 1952 | 50·962 | — | 50·962 |
| 1953 | 58·831 | — | 58·831 |
| 1954 | 15·896 | — | [a]17·796 |
| 1955 | 22·000 | — | 22·000 |
| 1956 | 25·000 | — | [a]27·000 |
| 1957 | 66·000 | — | [a]68·000 |
| 1958 | 42·000 | — | [a]43·000 |
| 1959 | 3·000 | — | 3·000 |
| 1960–1964 | — | — | — |
| Total | 31,087·605 | 971·00 | 32,068·015 |

[a]Includes also osmiridium content of platinum concentrates produced from Macquarie River, New South Wales (2 oz in 1950; 0·51 oz in 1951; 1·9 oz in 1954; 2 oz in 1956; 2 oz in 1957; and 1 oz in 1958.)

## OSMIRIDIUM PRODUCTION—TASMANIA

| Year | Savage River, Wilson River, Mt. Stewart and Waratah | Adamsfield | Total |
|---|---|---|---|
| | oz | oz | oz |
| 1910 | 120·000 | — | 120·000 |
| 1911 | 271·880 | — | 271·880 |
| 1912 | 778·770 | — | 778·770 |
| 1913 | 1,261·650 | — | 1,261·650 |
| 1914 | 1,018·830 | — | 1,018·830 |
| 1915 | 247·048 | — | 247·048 |
| 1916 | 222·150 | — | 222·150 |
| 1917 | 322·079 | — | 332·079 |
| 1918 | 1,606·743 | — | 1,606·743 |
| 1919 | 1,668·715 | — | 1,668·715 |
| 1920 | 2,009·196 | — | 2,009·196 |
| 1921 | 1,750·655 | — | 1,750·655 |
| 1922 | 1,173·924 | — | 1,173·924 |
| 1923 | 673·423 | — | 673·423 |
| 1924 | 364·805 | — | 364·805 |
| 1925 | 492·280 | 2,873·263 | 3,365·543 |
| 1926 | 157·948 | 3,044·552 | 3,202·500 |
| 1927 | 79·806 | 552·971 | 632·777 |
| 1928 | 77·817 | 1,549·369 | 1,627·186 |
| 1929 | 387·840 | 1,036·160 | 1,324·000 |
| 1930 | 224·438 | 728·262 | 952·700 |
| 1931 | 180·987 | 1,098·553 | 1,279·540 |
| 1932 | 193·573 | 591·377 | 784·950 |
| 1933 | 12·000 | 536·000 | 548·000 |
| 1934 | — | 487·700 | 487·700 |
| 1935 | — | 234·820 | 234·820 |
| 1936 | 22·000 | 258·600 | 280·600 |
| 1937 | 257·338 | 329·082 | 586·420 |
| 1938 | 18·670 | 172·200 | 190·870 |
| 1939 | 17·242 | 265·823 | 283·065 |
| 1940 | 106·157 | 358·583 | 464·740 |
| 1941 | 14·332 | 192·246 | 206·578 |
| 1942 | 24·473 | 117·621 | 142·094 |
| 1943 | 5·113 | 84·582 | 89·695 |
| 1944 | 13·019 | 94·001 | 107·020 |
| 1945 | 5·117 | 103·633 | 108·750 |
| 1946 | 1·210 | 93·312 | 94·522 |
| 1947 | — | 98·766 | 98·766 |
| 1948 | 0·223 | 92·170 | 92·393 |
| 1949 | — | 39·300 | 39·300 |
| 1950 | — | 46·141 | 46·141 |
| 1951 | — | 33·378 | 33·378 |
| 1952 | 2·352 | 48·610 | 50·962 |
| 1953 | — | 58·831 | 58·831 |
| 1954 | — | 15·896 | 15·896 |
| 1955 | — | 22·000 | 22·000 |
| 1956 | — | 25·000 | 25·000 |
| 1957 | — | 66·000 | 66·000 |
| 1958 | — | 42·000 | 42·000 |
| 1959 | — | 3·000 | 3·000 |
| 1960-64 | — | — | — |
| Total | 15,693·803 | 15,393·802 | 31,087·605 |

## PLATINUM GROUP METALS[a]—EXPORTS

| Year | oz | £, f.o.b. | Year | oz | £, f.o.b. |
|---|---|---|---|---|---|
| 1904 | n.a. | 1,492 | 1933–34 | 671 | 6,753 |
| | | | 1934–35 | 423 | 3,815 |
| 1905 | 602 | 1,509 | | | |
| 1906 | 404 | 1,548 | 1935–36 | 317 | 3,098 |
| 1907 | 853 | 4,285 | 1936–37 | 1,129 | 14,727 |
| 1908 | n.a. | n.a. | 1937–38 | 421 | 7,080 |
| 1909 | 95 | 444 | 1938–39 | 229 | 4,412 |
| | | | 1939–40 | 350 | 7,133 |
| 1910 | 262 | 1,498 | | | |
| 1911 | 1,198 | 8,437 | 1940–41 | 275 | 4,463 |
| 1912 | 900 | 6,049 | 1941–42 | 346 | 4,372 |
| 1913 | 906 | 6,857 | 1942–43 | 24 | 608 |
| 1914 | n.a. | n.a. | 1943–44 | — | — |
| 1914–15 | 70 | 559 | 1944–45 | — | — |
| 1915–16 | 170 | 1,387 | 1946 | — | — |
| 1916–17 | 116 | 1,294 | 1947 | 402 | 6,396 |
| 1917–18 | 445 | 7,740 | 1948 | 12 | 120 |
| 1918–19 | 1,324 | 35,823 | 1949 | 492 | 9,136 |
| 1919–20 | 2,130 | 67,653 | | | |
| | | | 1950 | 31 | 1,341 |
| 1920–21 | 2,715 | 85,336 | 1951 | 582 | 11,965 |
| 1921–22 | 2,050 | 39,171 | 1952 | 629 | 25,859 |
| 1922–23 | 1,542 | 43,489 | 1953 | 506 | 19,960 |
| 1923–24 | 1,172 | 29,798 | 1954 | 520 | 20,182 |
| 1924–25 | 1,450 | 24,782 | | | |
| | | | 1955 | 690 | 23,110 |
| 1925–26 | 5,192 | 154,753 | 1956 | 805 | 28,942 |
| 1926–27 | 1,504 | 25,803 | 1957 | 369 | 13,623 |
| 1927–28 | 1,068 | 21,723 | 1958 | 854 | 24,667 |
| 1928–29 | 693 | 17,688 | 1959 | 197 | 5,422 |
| 1929–30 | 641 | 13,141 | | | |
| | | | 1960 | 578 | 17,510 |
| 1930–31 | 963 | 13,976 | 1961 | 494 | 14,204 |
| 1931–32 | 1,772 | 22,600 | 1962 | 668 | 11,344 |
| 1932–33 | 664 | 5,257 | 1963 | 476 | 13,972 |
| | | | 1964 | 738 | 27,529 |

[a]Not recorded prior to 1904. From 1st January, 1904 to 30th June, 1918 figures represent Platinum blocks, rods, sheet, etc. Since 1st July, 1918 the figures are those of "Platinum Group metals".

## PLATINUM GROUP METALS—IMPORTS[a]—AUSTRALIA

Platinum (Blocks, rods, sheet, etc.)

| Year | oz | £, f.o.b. | Year | oz | £, f.o.b. |
|---|---|---|---|---|---|
| 1903 | 392 | 1,712 | 1925–26 | 172 | 3,694 |
| 1904 | n.a. | 168 | 1926–27 | 251 | 4,975 |
| | | | 1927–28 | 716 | 9,566 |
| 1905 | 170 | 338 | 1928–29 | 756 | 11,491 |
| 1906 | 155 | 716 | 1929–30 | 665 | 8,604 |
| 1907 | 160 | 806 | | | |
| 1908 | 179 | 950 | 1930–31 | 364 | 2,632 |
| 1909 | 197 | 955 | 1931–32 | 285 | 3,137 |
| | | | 1932–33 | 585 | 5,856 |
| 1910 | 320 | 1,528 | 1933–34 | 501 | 4,730 |
| 1911 | 504 | 3,364 | 1934–35 | 786 | 6,913 |
| 1912 | 318 | 2,482 | | | |
| 1913 | 301 | 2,376 | 1935–36 | 2,353 | 12,306 |
| 1914 | n.a. | n.a. | 1936–37 | 1,708 | 17,803 |
| 1914–15 | 223 | 1,459 | 1937–38 | 1,447 | 14,811 |
| | | | 1938–39 | 1,358 | 11,179 |
| 1915–16 | 89 | 802 | 1939–40 | 1,637 | 17,162 |
| 1916–17 | 18 | 81 | | | |
| 1917–18 | 3 | 41 | 1940–41 | 2,660 | 28,336 |
| 1918–19 | n.a. | n.a. | 1941–42 | 2,781 | 28,828 |
| 1919–20 | 30 | 635 | 1942–43 | 1,620 | 17,152 |
| | | | 1943–44 | 1,536 | 16,087 |
| 1920–21 | 26 | 311 | 1944–45 | 484 | 5,005 |
| 1921–22 | 124 | 2,155 | | | |
| 1922–23 | 101 | 2,043 | 1945–46 | 27,692 | 30,444 |
| 1923–24 | 149 | 3,153 | 1946–47 | 26,800 | 30,706 |
| 1924–25 | 67 | 1,587 | | | |

[a]Figures not available prior to 1903.

| Year | Platinum Blocks, Rods, Bars | | Platinum Metal Powder | | Platinum Group Metals except Platinum | |
|---|---|---|---|---|---|---|
| | oz | £, f.o.b. | oz | £, f.o.b. | oz | £, f.o.b. |
| 1948 | 544 | 9,699 | n.a. | n.a. | 1,181 | 10,093 |
| 1949 | 202 | 6,413 | n.a. | n.a. | 377 | 3,400 |
| 1950 | 355 | 10,559 | [a]1,263 | [a]17,881 | 520 | 5,598 |
| 1951 | 515 | 15,279 | [a]726 | [a]21,047 | 616 | 10,581 |
| 1952 | 439 | 15,885 | [a]293 | [a]36,026 | 179 | 1,894 |
| 1953 | 246 | 7,973 | 1,204 | 31,002 | 1,484 | 15,895 |
| 1954 | [b]4,716 | [b]66,910 | *c* | *c* | *c* | *c* |
| 1955 | [b]4,495 | [b]91,541 | | | | |
| 1956 | 957 | 16,921 | 1,034 | 22,350 | 1,232 | 17,047 |
| 1957 | 197 | 8,057 | 1,956 | 30,746 | 1,870 | 22,485 |
| 1958 | 357 | 10,130 | 1,028 | 18,084 | 1,108 | 11,150 |
| 1959 | 379 | 12,169 | 615 | 8,369 | 1,478 | 17,818 |
| 1960 | 686 | 24,432 | 747 | 21,652 | 1,917 | 21,326 |
| 1961 | 960 | 34,525 | 523 | 13,209 | 821 | 10,823 |
| 1962 | 446 | 15,979 | 2,291 | 40,168 | 20 | 321 |
| 1963 | 773 | 14,298 | 2,780 | 41,011 | 67 | 2,698 |
| 1964 | 442 | 16,196 | 3,968 | 86,587 | 209 | 8,056 |

[a]Year ended 30th June. [b]Includes Platinum Metal Powder and Other Platinum Group Metals. [c] Not recorded separately.

# POTASSIUM

Alunite Production—Australia . . . . . 350

Glauconite Production—Australia . . . . . 351

Potassium Salts (Fertilizer)—Imports—Australia . . . . . 351

## ALUNITE PRODUCTION—AUSTRALIA

| Year | New South Wales | South Australia | Western Australia | Total |
|---|---|---|---|---|
| | Bulahdelah | Carrickalinga Head, etc. | Chandler (Lake Campion) | Crude Alunite |
| | tons | tons | tons | tons |
| 1890 | [a]1,000 | — | — | 1,000 |
| 1891 | 704 | — | — | 704 |
| 1892 | 821 | — | — | 821 |
| 1893 | 1,284 | — | — | 1,284 |
| 1894 | 862 | — | — | 862 |
| 1895 | 832 | — | — | 832 |
| 1896 | 1,372 | — | — | 1,372 |
| 1897 | 725 | — | — | 725 |
| 1898 | 2,941 | — | — | 2,941 |
| 1899 | 921 | — | — | 921 |
| 1900 | 1,915 | — | — | 1,915 |
| 1901 | 3,146 | — | — | 3,146 |
| 1902 | 3,644 | — | — | 3,644 |
| 1903 | 2,484 | — | — | 2,484 |
| 1904 | 370 | — | — | 370 |
| 1905 | 2,702 | — | — | 2,702 |
| 1906 | 1,856 | — | — | 1,856 |
| 1907 | 2,087 | — | — | 2,087 |
| 1908 | 1,082 | — | — | 1,082 |
| 1909 | 3,500 | — | — | 3,500 |
| 1910 | 1,136 | — | — | 1,136 |
| 1911 | 1,006 | — | — | 1,006 |
| 1912 | 3,425 | — | — | 3,425 |
| 1913 | 2,235 | — | — | 2,235 |
| 1914 | 3,040 | 20 | — | 3,060 |
| 1915 | 1,420 | — | — | 1,420 |
| 1916 | 325 | 134 | — | 459 |
| 1917 | 1,788 | 29 | — | 1,817 |
| 1918 | 3,406 | — | — | 3,406 |
| 1919 | 2,485 | 60 | 200 | 2,745 |
| 1920 | 634 | 20 | — | 654 |
| 1921 | 520 | 15 | — | 5 |
| 1922 | 185 | 95 | — | 2 |
| 1923 | 998 | — | — | 9 |
| 1924 | 1,008 | — | — | 1,0 |
| 1925 | 531 | — | — | 5 |
| 1926 | 580 | — | — | 5 |
| 1927–33[b] | — | — | — | - |
| 1934 | — | — | 2 | |
| 1935 | 570 | — | — | 5 |
| 1936 | 738 | 8 | — | 7 |
| 1937 | 334 | — | — | 3 |
| 1938 | 438 | — | — | 4 |
| 1939 | 750 | — | — | 7 |
| 1940 | 787 | — | — | 7 |
| 1941 | 1,162 | — | — | 1,1 |
| 1942 | 1,137 | — | — | 1,1 |
| 1943 | 428 | — | — | 4 |
| 1944 | 830 | — | 19,236 | 20,0 |
| 1945 | 631 | — | 21,628 | 22,2 |
| 1946 | 716 | — | 35,136 | 35,8 |
| 1947 | 400 | — | 34,331 | 34,7 |
| 1948 | 701 | — | 39,131 | 39,8 |
| 1949 | 430 | — | 32,624 | 33,0 |
| 1950 | 397 | — | 904 | 1,3 |
| 1951 | 449 | — | — | 4 |
| 1952 | 314 | — | — | 3 |
| 1953–64 | — | — | — | - |
| Total | 70,265 | 381 | 183,192 | 253,8 |

[a]Yielding 220 tons of alum. [b]Three tons of alunogen produced in Queensland in 1927.

# POTASSIUM

## GLAUCONITE PRODUCTION[a]—AUSTRALIA

| Year | tons | Year | tons | Year | tons |
|---|---|---|---|---|---|
| Prior to 1935 | 775 | 1943 | 98 | 1952 | 230 |
| 1935 | 308 | 1944 | 144 | 1953 | 320 |
| 1936 | 219 | 1945 | 180 | 1954 | 258 |
| 1937 | 165 | 1946 | 366 | 1955 | 197 |
| 1938 | 183 | 1947 | 350 | 1956 | 85 |
| 1939 | 142 | 1948 | 319 | 1957 | 126 |
| 1940 | 200 | 1949 | 204 | 1958 | 112 |
| 1941 | 156 | 1950 | 324 | 1959 | 102 |
| 1942 | 260 | 1951 | 506 | 1960 | 111 |
| | | | | 1961-64 | — |

[a]All production to date has been in Western Australia.

## POTASSIUM SALTS (FERTILIZER)—IMPORTS—AUSTRALIA

| Year | Potassium Chloride | | Year | Potassium Sulphate | |
|---|---|---|---|---|---|
| | tons | £, f.o.b. | | tons | £, f.o.b. |
| 1950 | 12,991 | 275,860 | 1950 | 734 | 14,186 |
| 1951 | 9,716 | 201,132 | 1951 | 865 | 22,856 |
| 1952 | 16,059 | 378,572 | 1952 | 893 | 26,612 |
| 1953 | 17,703 | 340,424 | 1953 | 2,685 | 59,847 |
| 1954 | 23,299 | 406,538 | 1954 | 4,038 | 78,488 |
| 1955 | 26,841 | 458,701 | 1955 | 3,378 | 72,279 |
| 1956 | 28,264 | 450,832 | 1956 | 4,304 | 75,093 |
| 1957 | 40,357 | 605,569 | 1957 | 3,938 | 84,894 |
| 1958 | 47,942 | 752,531 | 1958 | 7,339 | 118,069 |
| 1959 | 43,259 | 640,572 | 1959 | 5,951 | 117,838 |
| 1960 | 41,541 | 509,440 | 1960 | 5,785 | 106,739 |
| 1961 | 51,881 | 824,711 | 1961 | 7,523 | 153,483 |
| 1962 | 41,960 | 680,280 | 1962 | 8,860 | 198,689 |
| 1963 | 64,430 | 858,261 | 1963 | 9,585 | 188,940 |
| 1964 | 95,090 | 1,368,107 | 1964 | 11,440 | 246,948 |

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# SALT

Salt (Crude) Production—Australia .. .. .. .. .. 354–355

Salt—Exports—Australia .. .. .. .. .. .. .. .. 356

Table Salt and Preparations in Packages—Exports—Australia .. .. 357

Salt—Imports .. .. .. .. .. .. .. .. 358–359

Table Salt and Preparations thereof in Packets—Imports—Australia .. .. 360

## SALT (CRUDE) PRODUCTION—AUSTRALIA

| Year | Queensland[a] | Victoria[b] | South Australia | Western Australia[c] | Northern Territory | Total[d] |
|---|---|---|---|---|---|---|
| Prior to 1901 | — | — | 220,623 | — | — | 220,623 |
| 1901 | — | — | 42,000 | — | — | 42,000 |
| 1902 | — | — | 38,500 | — | — | 38,500 |
| 1903 | — | — | 40,000 | — | — | 40,000 |
| 1904 | — | — | 40,000 | — | — | 40,000 |
| 1905 | — | — | 42,500 | — | — | 42,500 |
| 1906 | — | — | 55,000 | — | — | 55,000 |
| 1907 | — | — | 75,000 | — | — | 75,000 |
| 1908 | — | — | 75,000 | — | — | 75,000 |
| 1909 | — | — | 51,407 | — | — | 51,407 |
| 1910 | — | — | 54,000 | — | — | 54,000 |
| 1911 | — | — | 65,000 | — | — | 65,000 |
| 1912 | — | — | 64,300 | — | — | 64,300 |
| 1913 | — | — | 65,000 | — | — | 65,000 |
| 1914 | — | — | 65,000 | — | — | 65,000 |
| 1915 | — | — | 64,000 | — | — | 64,000 |
| 1916 | — | — | 66,400 | — | — | 66,400 |
| 1917 | — | — | 46,858 | — | — | 46,858 |
| 1918 | — | — | 88,519 | — | — | 88,519 |
| 1919 | — | — | 69,174 | — | — | 69,174 |
| 1920 | — | — | 70,871 | — | — | 70,871 |
| 1921 | — | — | 56,492 | — | — | 56,492 |
| 1922 | — | — | 48,657 | — | — | 48,657 |
| 1923 | — | — | 50,286 | — | — | 50,286 |
| 1924 | — | — | 62,687 | — | — | 62,687 |
| 1925 | — | — | 78,251 | — | — | 78,251 |
| 1926 | — | — | 91,101 | — | — | 91,101 |
| 1927 | 500 | — | 79,286 | — | — | 79,786 |
| 1928 | 2,240 | — | 71,428 | — | — | 73,668 |
| 1929 | 6,430 | — | 76,457 | — | — | 82,887 |
| 1930 | 8,330 | — | 58,766 | — | 120 | 67,216 |
| 1931 | 9,520 | — | 68,666 | — | n.a. | 78,186 |
| 1932 | 8,050 | — | 60,063 | — | 150 | 68,263 |

[a]Year ending 30th June. [b]Data prior to 1937 are incomplete and it has not been practicable to make satisfactory estimates. [c]Prior to 1957, year ending 30th June. [d]Totals prior to 1937 are incomplete.

SALT (CRUDE) PRODUCTION—AUSTRALIA—*continued*

| Year | Queensland[a] | Victoria[b] | South Australia | Western Australia[c] | Northern Territory | Total[d] |
|---|---|---|---|---|---|---|
| 1933 | 4,570 | — | 58,587 | — | 100 | 63,257 |
| 1934 | 11,280 | — | 61,083 | 2,670 | 250 | 75,288 |
| 1935 | 11,300 | — | 78,003 | 3,896 | 280 | 93,479 |
| 1936 | 7,940 | — | 66,326 | 4,227 | 210 | 78,703 |
| 1937 | 10,600 | 61,100 | 73,558 | 3,670 | 260 | 149,188 |
| 1938 | 9,000 | 57,800 | 74,812 | 3,791 | 280 | 145,683 |
| 1939 | 9,860 | 76,500 | 79,483 | 3,413 | 280 | 169,536 |
| 1940 | 9,430 | 69,500 | 144,669 | 4,248 | — | 227,847 |
| 1941 | 10,950 | 61,150 | 170,691 | 2,892 | — | 245,683 |
| 1942 | 8,490 | 56,250 | 174,176 | 3,688 | — | 242,604 |
| 1943 | 9,590 | 61,200 | 184,312 | 4,665 | — | 259,767 |
| 1944 | 12,020 | 82,500 | 164,885 | 3,048 | — | 262,453 |
| 1945 | 9,910 | 68,400 | 171,067 | 4,946 | — | 254,323 |
| 1946 | 10,770 | [e]53,300 | 158,214 | 4,170 | — | [e]226,500 |
| 1947 | 11,360 | [e]50,800 | 155,074 | 8,065 | — | [e]225,300 |
| 1948 | 13,360 | [e]61,400 | 173,087 | 5,681 | — | [e]253,500 |
| 1949 | 10,000 | [e]49,000 | 168,450 | 5,465 | — | [e]232,000 |
| 1950 | — | [e]76,500 | 190,702 | 5,518 | — | [e]272,700 |
| 1951 | 11,210 | [e]64,500 | 218,910 | 5,353 | — | [e]300,000 |
| 1952 | 10,365 | [e]56,900 | 203,486 | 6,220 | — | [e]277,000 |
| 1953 | 7,485 | [e]59,200 | 239,285 | 4,003 | — | [e]310,000 |
| 1954 | 6,250 | [e]64,000 | 303,893 | 5,228 | — | [e]379,400 |
| 1955 | 4,500 | [e]67,000 | 291,323 | 6,620 | 1,012 | [e]369,900 |
| 1956 | 207 | [e]70,800 | 331,965 | 5,717 | | [e]409,200 |
| 1957 | n.a.p. | [e]63,500 | 339,396 | n.a.p. | 1,243 | [e]427,600 |
| 1958 | n.a.p. | [e]70,600 | 336,247 | n.a.p. | 1,500 | [e]429,500 |
| 1959 | n.a.p. | [e]70,100 | 357,802 | n.a.p. | 1,221 | [e]467,500 |
| 1960 | n.a.p. | [e]71,200 | 359,027 | n.a.p. | 930 | [e]463,300 |
| 1961 | n.a.p. | [e]80,000 | 387,433 | n.a.p. | 807 | [e]508,700 |
| 1962 | n.a.p. | n.a.p. | 389,597 | n.a.p. | 890 | 536,000 |
| 1963 | n.a.p. | n.a.p. | 459,005 | n.a.p. | — | 581,500 |
| 1964 | n.a.p. | n.a.p. | 440,332 | n.a.p. | — | 545,400 |

[a]Year ending 30th June. [b]Data prior to 1937 are incomplete and it has not been practicable to make satisfactory estimates. [c]Prior to 1957, year ending 30th June. [d]Totals prior to 1937 are incomplete.

SALT—EXPORTS[a]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1903 | 8,077 | 13,976 | 1933–34 | 12,579 | 28,301 |
| 1904 | 7,448 | 11,275 | 1934–35 | 11,919 | 28,391 |
| 1905 | 9,213 | 11,593 | 1935–36 | 14,958 | 33,763 |
| 1906 | 10,438 | 17,701 | 1936–37 | 15,411 | 29,952 |
| 1907 | 9,460 | 17,656 | 1937–38 | 13,751 | 23,459 |
| 1908 | 12,017 | 21,077 | 1938–39 | 17,532 | 34,629 |
| 1909 | 11,524 | 17,926 | 1939–40 | 22,680 | 48,836 |
| 1910 | 9,245 | 14,354 | 1940–41 | 29,904 | 88,714 |
| 1911 | 3,185 | 7,621 | 1941–42 | 20,441 | 60,949 |
| 1912 | 6,189 | 15,392 | 1942–43 | 22,637 | 84,132 |
| 1913 | 6,743 | 11,244 | 1943–44 | 27,864 | 107,378 |
| 1914 | n.a. | n.a. | 1944–45 | 21,266 | 78,928 |
| 1914–15 | 5,550 | 10,332 | | | |
| | | | 1945–46 | 22,361 | 110,485 |
| 1915–16 | 15,626 | 32,699 | 1946–47 | 15,583 | 65,346 |
| 1916–17 | 12,423 | 31,457 | 1947–48 | 24,733 | 105,039 |
| 1917–18 | 16,213 | 88,003 | 1949 | 24,368 | 113,148 |
| 1918–19 | 12,906 | 81,077 | | | |
| 1919–20 | 10,897 | 44,320 | 1950 | 21,637 | 107,165 |
| | | | 1951 | 14,269 | 80,178 |
| 1920–21 | 12,555 | 44,042 | 1952 | 22,278 | 127,200 |
| 1921–22 | 6,143 | 22,751 | 1953 | 16,705 | 114,642 |
| 1922–23 | 5,303 | 14,889 | 1954 | 20,809 | 164,885 |
| 1923–24 | 4,608 | 13,193 | | | |
| 1924–25 | 5,516 | 19,421 | 1955 | 21,556 | 172,238 |
| | | | 1956 | 22,848 | 175,982 |
| 1925–26 | 4,911 | 15,466 | 1957 | 18,556 | 151,329 |
| 1926–27 | 5,495 | 20,502 | 1958 | 20,346 | 171,782 |
| 1927–28 | 7,253 | 25,668 | 1959 | 17,827 | 144,178 |
| 1928–29 | 8,122 | 29,191 | | | |
| 1929–30 | 6,192 | 22,715 | 1960 | 18,346 | 149,929 |
| | | | 1961 | 59,618 | 325,452 |
| 1930–31 | 7,270 | 16,749 | 1962 | 74,523 | 332,962 |
| 1931–32 | 9,091 | 18,070 | 1963 | 119,941 | 397,544 |
| 1932–33 | 8,872 | 18,600 | 1964 | 116,639 | 383,132 |

[a] Includes "Table-salt" and "Salt not elsewhere included". Figures not available prior to 1903. For years 1909 to 1945, value only was shown for "Table salt and preparations thereof in packages". The details are not included in this table but are given in the following table "Table Salt and Preparations in Packages—Exports".

TABLE SALT AND PREPARATIONS IN PACKAGES[a]—EXPORTS—AUSTRALIA

(Years 1909 to 1945)

| Year | £, f.o.b. | Year | £, f.o.b. | Year | £, f.o.b. |
|---|---|---|---|---|---|
| 1909 | 315 | 1921–22 | 1,753 | 1935–36 | 532 |
| | | 1922–23 | 955 | | |
| 1910 | 348 | 1923–24 | 668 | 1936–37 | 324 |
| 1911 | 271 | 1924–25 | 657 | 1937–38 | 484 |
| 1912 | 468 | | | 1938–39 | 993 |
| 1913 | 455 | 1925–26 | 522 | 1939–40 | 4,859 |
| 1914 | n.a. | 1926–27 | 727 | | |
| 1914–15 | 360 | 1927–28 | 677 | 1940–41 | 10,163 |
| | | 1928–29 | 624 | 1941–42 | 5,000 |
| 1915–16 | 434 | 1929–30 | 544 | 1942–43 | 2,122 |
| 1916–17 | 454 | | | 1943–44 | 3,230 |
| 1917–18 | 3,888 | 1930–31 | 509 | 1944–45 | 8,344 |
| 1918–19 | 878 | 1931–32 | 638 | | |
| 1919–20 | 1,388 | 1932–33 | 992 | *b* | *b* |
| | | 1933–34 | 701 | | |
| 1920–21 | 1,330 | 1934–35 | 524 | | |

[a] Value only was recorded. [b] Not recorded after 30th June, 1945.

SALT—IMPORTS[a]—AUSTRALIA

| Year | Rock Salt | | Year | Other Salt[b] | |
|---|---|---|---|---|---|
| | tons | £, f.o.b. | | tons | £, f.o.b. |
| 1903 | 6,984 | 6,575 | 1903 | 8,650 | 10,830 |
| 1904 | 2,912 | 2,268 | 1904 | 14,868 | 17,504 |
| 1905 | 11,081 | 8,356 | 1905 | 13,555 | 17,196 |
| 1906 | 7,506 | 5,440 | 1906 | 8,797 | 10,882 |
| 1907 | 8,424 | 6,216 | 1907 | 12,069 | 13,324 |
| 1908 | 15,528 | 13,568 | 1908 | 3,998 | 6,053 |
| 1909 | 6,357 | 5,585 | 1909 | 7,315 | 8,518 |
| 1910 | 12,586 | 7,985 | 1910 | 13,855 | 9,770 |
| 1911 | 13,210 | 9,194 | 1911 | 24,482 | 29,976 |
| 1912 | 11,664 | 6,392 | 1912 | 11,761 | 17,520 |
| 1913 | 9,287 | 7,144 | 1913 | 17,365 | 24,460 |
| 1914 | n.a. | n.a. | 1914 | n.a. | n.a. |
| 1914–15 | 9,589 | 7,057 | 1914–15 | 9,019 | 15,370 |
| 1915–16 | 7,654 | 5,984 | 1915–16 | 5,869 | 9,997 |
| 1916–17 | 3,085 | 3,199 | 1916–17 | 844 | 3,857 |
| 1917–18 | 1,010 | 2,150 | 1917–18 | 1,779 | 7,755 |
| 1918–19 | 1,046 | 3,625 | 1918–19 | 827 | 3,861 |
| 1919–20 | 3,314 | 13,569 | 1919–20 | 586 | 3,002 |
| 1920–21 | 2,569 | 7,845 | 1920–21 | 520 | 3,125 |
| 1921–22 | 3,520 | 10,543 | 1921–22 | 1,404 | 8,321 |
| 1922–23 | 4,880 | 13,384 | 1922–23 | 4,677 | 38,504 |
| 1923–24 | 8,932 | 20,112 | 1923–24 | 3,665 | 31,847 |
| 1924–25 | 2,263 | 4,992 | 1924–25 | 5,823 | 45,176 |
| 1925–26 | 5,128 | 11,005 | 1925–26 | 6,037 | 55,575 |
| 1926–27 | 6,914 | 13,145 | 1926–27 | 5,829 | 55,890 |
| 1927–28 | 3,654 | 9,852 | 1927–28 | 5,421 | 52,098 |
| 1928–29 | 6,259 | 13,179 | 1928–29 | 6,648 | 61,809 |
| 1929–30 | 5,299 | 9,843 | 1929–30 | 7,754 | 59,605 |
| 1930–31 | 3,019 | 5,370 | 1930–31 | 4,191 | 34,503 |
| 1931–32 | 3,141 | 7,165 | 1931–32 | 2,946 | 30,434 |
| 1932–33 | 5,073 | 11,468 | 1932–33 | 3,364 | 30,598 |
| 1933–34 | 4,113 | 9,992 | 1933–34 | 3,717 | 34,221 |

[a]Figures not available prior to 1903. [b]For years 1908 to 1922 value only was recorded for "Table salt and preparations thereof in packets not exceeding 14 lb." The details are not included in this table but are given in the following table "Table Salt and Preparations in Packages—Imports".

SALT—IMPORTS[a]—AUSTRALIA—*continued*

| Year | Rock Salt | | Year | Other Salt[b] | |
|---|---|---|---|---|---|
| | tons | £, f.o.b. | | tons | £, f.o.b. |
| 1934–35 | 5,662 | 12,750 | 1934–35 | 4,761 | 41,588 |
| 1935–36 | 5,673 | 12,364 | 1935–36 | 4,749 | 42,001 |
| 1936–37 | 6,762 | 11,967 | 1936–37 | 5,076 | 44,038 |
| 1937–38 | 4,957 | 11,370 | 1937–38 | 5,033 | 37,250 |
| 1938–39 | 3,983 | 9,097 | 1938–39 | 7,164 | 50,043 |
| 1939–40 | 2,475 | 5,586 | 1939–40 | 4,320 | 45,844 |
| 1940–41 | 2,638 | 5,801 | 1940–41 | 2,684 | 33,370 |
| 1941–42 | 2,079 | 4,753 | 1941–42 | 3,257 | 36,825 |
| 1942–43 | 1,317 | 3,561 | 1942–43 | 1,580 | 8,282 |
| 1943–44 | 3,597 | 7,044 | 1943–44 | 11,213 | 5,782 |
| 1944–45 | 2,967 | 7,176 | 1944–45 | 3,914 | 10,252 |
| 1945–46 | 1,765 | 5,461 | 1945–46 | 1,792 | 20,211 |
| 1946–47 | 2,940 | 8,571 | 1946–47 | 1,889 | 42,907 |
| 1947–48 | 3,230 | 10,344 | 1947–48 | 3,044 | 75,868 |
| 1949 | 5,020 | 18,541 | 1949 | 3,712 | 65,989 |
| 1950 | 6,332 | 28,367 | 1950 | 5,365 | 95,236 |
| 1951 | 4,049 | 17,153 | 1951 | 12,239 | 213,841 |
| 1952 | 2,095 | 12,306 | 1952 | 4,539 | 111,913 |
| 1953 | 5,415 | 33,897 | 1953 | 3,470 | 88,528 |
| 1954 | 2,349 | 14,970 | 1954 | 5,106 | 153,258 |
| 1955 | 2,276 | 13,307 | 1955 | 6,558 | 162,598 |
| 1956 | 1,988 | 11,608 | 1956 | 4,684 | 110,412 |
| 1957 | 3,336 | 19,073 | 1957 | 4,814 | 101,725 |
| 1958 | 1,879 | 11,072 | 1958 | 7,179 | 137,473 |
| 1959 | 2,083 | 12,011 | 1959 | 7,210 | 113,445 |
| 1960 | 5 | 28 | 1960 | 19,463 | 118,185 |
| 1961 | — | — | 1961 | 11,822 | 125,224 |
| 1962 | — | — | 1962 | 7,737 | 71,051 |
| 1963 | — | — | 1963 | 5,815 | 55,232 |
| 1964 | — | — | 1964 | 7,973 | 53,756 |

[a]Figures not available prior to 1903. [b]For years 1908 to 1922 value only was recorded for "Table salt and preparations thereof in packets not exceeding 14 lb." The details are not included in this table but are given in the following table "Table Salt and Preparations in Packages—Imports".

TABLE SALT AND PREPARATIONS THEREOF IN PACKETS[a] —IMPORTS—AUSTRALIA

(Years 1908 to 1922)

| Year | £, f.o.b. | Year | £, f.o.b. | Year | £, f.o.b. |
|---|---|---|---|---|---|
| 1908 | 2,989 | 1913 | 9,331 | 1916–17 | 8,932 |
| 1909 | 4,213 | 1914 | n.a. | 1917–18 | 15,161 |
| | | | | 1918–19 | 6,888 |
| 1910 | 4,652 | 1914–15 | 7,199 | 1919–20 | 21,794 |
| 1911 | 6,172 | | | 1920–21 | 9,894 |
| 1912 | 9,259 | 1915–16 | 8,911 | 1921–22 | 14,866 |

[a] The packets not exceeding 14 lb. Value only was recorded.

# SILICA

Glass Sand Production—Australia .. .. .. .. .. .. 362

Other Silica Production—Australia .. .. .. .. .. .. 362

Quartz Crystal Production—Australia .. .. .. .. .. .. 363

Quartz Crystal—Imports—Australia .. .. .. .. .. .. 363

## GLASS SAND PRODUCTION—AUSTRALIA

| Year | Queensland | New South Wales | South Australia | Western Australia | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1945 | n.r.s. | n.r.s. | n.r.s. | 175 | 175 |
| 1946 | n.r.s. | n.r.s. | n.r.s. | 181 | 181 |
| 1947 | n.r.s. | n.r.s. | n.r.s. | 364 | 364 |
| 1948 | n.r.s. | n.r.s. | n.r.s. | 517 | 517 |
| 1949 | n.r.s. | n.r.s. | 10,583 | 986 | 11,569 |
| 1950 | n.r.s. | n.r.s. | 11,718 | 5,132 | 16,850 |
| 1951 | n.r.s. | 63,109 | 12,596 | 6,173 | 81,878 |
| 1952 | n.r.s. | 51,560 | 13,805 | 7,669 | 73,034 |
| 1953 | n.r.s. | 63,659 | 12,163 | 6,906 | 82,728 |
| 1954 | n.r.s. | 61,390 | 12,739 | 7,803 | 81,932 |
| 1955 | n.r.s. | 38,517 | 14,760 | 6,759 | 60,036 |
| 1956 | n.r.s. | 70,484 | 10,165 | 7,343 | 87,992 |
| 1957 | n.r.s. | 69,268 | 10,347 | 5,693 | 85,308 |
| 1958 | n.r.s. | 75,120 | 7,078 | 6,510 | 88,708 |
| 1959 | n.r.s. | 78,511 | 12,566 | 6,828 | 97,905 |
| 1960 | 14,919 | 99,301 | 8,092 | 8,637 | 130,949 |
| 1961 | 25,052 | 83,503 | 15,015 | 8,215 | 133,785 |
| 1962 | 25,122 | 101,948 | 14,055 | 10,326 | 151,451 |
| 1963 | 31,090 | 86,505 | 13,888 | 9,926 | 141,409 |
| 1964 | 36,936 | 113,404 | 11,450 | 10,047 | [a]175,188 |

[a] Includes 3,351 tons of silica sand from Tasmania.

## OTHER SILICA PRODUCTION[a]—AUSTRALIA

| Year | Queensland | New South Wales | Tasmania | South Australia | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1945 | n.r. | n.r. | n.r. | [b]13,276 | [b]13,276 |
| 1946 | n.r. | 33,958 | 5,937 | [b]8,476 | [b]48,371 |
| 1947 | n.r. | 33,762 | 5,047 | [b]5,594 | [b]44,403 |
| 1948 | n.r. | 35,287 | 3,762 | [b]12,107 | [b]51,156 |
| 1949 | n.r. | 35,806 | 3,095 | 13,761 | 52,662 |
| 1950 | n.r. | 32,111 | 7,443 | 9,988 | 49,542 |
| 1951 | n.r. | 41,666 | 6,897 | 11,913 | 60,476 |
| 1952 | n.r. | 43,384 | 9,393 | 11,108 | 63,885 |
| 1953 | n.r. | 43,953 | 6,190 | 9,575 | 59,718 |
| 1954 | n.r. | 40,654 | 6,169 | 5,203 | 52,026 |
| 1955 | 10 | 65,165 | 5,657 | 8,683 | 79,515 |
| 1956 | n.r. | 60,671 | 4,858 | 6,367 | 71,896 |
| 1957 | 1,865 | 67,862 | 6,552 | 3,455 | 79,734 |
| 1958 | 3,397 | 66,887 | 6,639 | 474 | 77,397 |
| 1959 | 955 | 47,407 | 6,519 | 1,041 | 55,922 |
| 1960 | 963 | 6,146 | 5,249 | 6,523 | 78,881 |
| 1961 | 4,174 | 67,388 | 1,415 | 7,754 | 80,731 |
| 1962 | 492 | 68,686 | 514 | 9,391 | 79,083 |
| 1963 | 890 | 87,429 | 2,641 | 10,991 | 101,951 |
| 1964 | 697 | 124,706 | 10,255 | 13,576 | 149,234 |

[a] Production has not been recorded in Victoria and Western Australia.
[b] Includes glass sand production in South Australia.

## QUARTZ CRYSTAL PRODUCTION[a]—AUSTRALIA

| Year | lb. |
|---|---|
| 1950 | 600 |
| 1951 | 60 |
| 1952 | 14 |
| 1953–64 | — |

[a] New South Wales has been the only producing State.

## QUARTZ CRYSTAL[a]—IMPORTS—AUSTRALIA
(Crude and other)

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1946 | [b] | 2,489 | 1955 | 271 | 20,225 |
| 1947 | — | — | 1956 | 15 | 5,899 |
| 1948 | [b] | 529 | 1957 | 68 | 9,623 |
| 1949 | — | — | 1958 | 21 | 4,530 |
| | | | 1959 | 51 | 4,771 |
| 1950 | [b] | 366 | | | |
| 1951 | 2 | 3,942 | 1960 | 94 | 19,600 |
| 1952 | 1 | 21,776 | 1961 | 48 | 6,165 |
| 1953 | 30 | 589 | 1962 | 24 | 10,227 |
| 1954 | 27 | 5,112 | 1963 | 95 | 21,578 |
| | | | 1964 | 180 | 15,908 |

[a] Not recorded as a separate item prior to 1st July, 1946.

Page 364 is blank.

# SILLIMANITE AND KYANITE

Sillimanite, Andalusite and Kyanite Production—Australia .. .. .. 366

Sillimanite and Kyanite—Exports—Australia .. .. .. .. .. 367

Sillimanite and Kyanite—Imports—Australia .. .. .. .. .. 367

## SILLIMANITE, ANDALUSITE AND KYANITE PRODUCTION—AUSTRALIA

| Year | New South Wales | South Australia | | Western Australia | | Total |
|---|---|---|---|---|---|---|
| | Sillimanite—Broken Hill District | Sillimanite and Andalusite | | Kyanite-Bridgetown District | | |
| | | Olary District | Mount Crawford Hundred Barossa | Yanmah | Ross Swamp | |
| | tons | tons | tons | tons | tons | tons |
| 1932 | 30 | — | — | — | — | 30 |
| 1933 | 130 | — | — | — | — | 130 |
| 1934 | 60 | [a]100 | — | — | — | 160 |
| 1935 | 15 | — | — | — | — | 15 |
| 1936 | 30 | — | — | — | — | 30 |
| 1937 | 45 | — | — | — | — | 45 |
| 1938 | — | — | — | 20 | — | 20 |
| 1939 | 75 | — | — | — | — | 75 |
| 1940 | 155 | [b]25 | 68 | — | — | 248 |
| 1941 | 258 | — | 699 | — | — | 957 |
| 1942 | 215 | [b]51 | 1,276 | — | — | 1,542 |
| 1943 | 280 | [b]13 | 798 | — | — | 1,091 |
| 1944 | 345 | — | 435 | — | — | 780 |
| 1945 | 105 | — | 810 | — | — | 915 |
| 1946 | 107 | [b]29 | 618 | 140 | — | 894 |
| 1947 | 118 | [b]66 | 265 | 2,896 | 35 | 3,380 |
| 1948 | 510 | [b]17 | 167 | [c]1,127 | — | 1,821 |
| 1949 | 552 | 120 | 289 | — | — | 961 |
| 1950 | 878 | 67 | 636 | — | — | 1,581 |
| 1951 | 565 | 23 | 283 | — | — | 871 |
| 1952 | 869 | 36 | 428 | — | — | 1,333 |
| 1953 | 2,747 | 41 | 769 | — | — | 3,557 |
| 1954 | 1,370 | 21 | 946 | — | — | 2,337 |
| 1955 | 1,987 | 19 | 673 | — | — | 2,679 |
| 1956 | 1,585 | 47 | 549 | — | — | 2,181 |
| 1957 | 1,491 | 37 | 774 | — | — | 2,302 |
| 1958 | 863 | 305 | 528 | — | — | 1,696 |
| 1959 | 46 | 2,587 | 1,000 | — | — | 3,633 |
| 1960 | — | 561 | 963 | — | — | 1,524 |
| 1961 | 254 | 548 | 985 | — | — | 1,787 |
| 1962 | 1,278 | 264 | 1,095 | — | — | 2,637 |
| 1963 | 1,738 | — | 1,777 | — | — | 3,515 |
| 1964 | 1,098 | — | 1,536 | — | — | 2,634 |
| Total | 19,799 | 4,977 | 18,367 | 4,183 | 35 | 47,361 |

[a] Sillimanite from Ameroo Hill. [b] Andalusite from Ameroo Hill with the exception of 5 tons of sillimanite from Yerka Hill, 1940. [c] Includes 2 tons of sillimanite from Clackline.

## SILLIMANITE AND KYANITE—EXPORTS—AUSTRALIA

| Sillimanite[a] | | | Kyanite[a] | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1946 | 216 | 767 | 1947–48 | 2,800 | 17,189 |
| 1947 | 116 | 424 | 1948–49 | 30 | 270 |
| 1948 | 684 | 2,472 | 1949–50 | † | 9 |
| 1949 | 688 | 2,738 | | | |
| | | | 1950–51 | — | — |
| 1950 | 521 | 2,330 | 1951–52 | — | — |
| 1951 | 271 | 1,381 | 1952–53 | — | — |
| 1952 | 101 | 831 | 1953–54 | — | — |
| 1953 | — | — | | | |
| 1954 | — | — | | | |

[a] Not recorded as separate item prior to 1946 and subsequent to 1954.

## SILLIMANITE AND KYANITE—IMPORTS—AUSTRALIA

| Sillimanite[a] | | | Kyanite[a] | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1945–46 | 300 | 1,277 | 1945–46 | — | — |
| 1946–47 | — | — | 1946–47 | — | — |
| 1947–48 | — | — | 1947–48 | 100 | 626 |
| 1948–49 | — | — | 1948–49 | 249 | 1,218 |
| 1949-50 | † | 14 | 1949–50 | 949 | 12,375 |
| 1951 | 28 | 670 | 1951 | — | — |
| 1952 | 70 | 2,416 | 1952 | — | — |
| 1953 | 1 | 63 | 1953 | 353 | 10,838 |
| 1954 | 5 | 193 | 1954 | 215 | 4,222 |
| 1955 | 45 | 1,817 | 1955 | 244 | 7,395 |
| 1956 | 161 | 7,868 | 1956 | 199 | 5,602 |
| 1957 | 132 | 5,129 | 1957 | 487 | 14,046 |
| 1958 | 131 | 6,133 | 1958 | 500 | 15,536 |
| 1959 | 135 | 5,015 | 1959 | 15 | 520 |
| 1960 | 259 | 6,666 | 1960 | 546 | 16,118 |
| 1961 | 191 | 5,824 | 1961 | 1,045 | 23,393 |
| 1962 | 190 | 6,618 | 1962 | 9 | 209 |
| 1963 | 37 | 1,459 | 1963 | 870 | 18,459 |
| 1964 | 218 | 7,034 | 1964 | 1,939 | 47,502 |

[a] Not recorded as a separate item prior to 1st July, 1945.

# SILVER


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Silver (Refined)—Prices .. .. .. .. .. .. .. .. 373

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Silver Production—New South Wales .. .. .. .. .. 379–380

Silver Production—Tasmania .. .. .. .. .. .. 381–382

Silver Production from Gold Ore Treatment—Western Australia .. 383–384

Silver Production—Territory of New Guinea .. .. .. .. .. 385

Silver Production in Papua and New Guinea .. .. .. .. .. 386

| Year | Queensland | New South Wales | Victoria[a] | Tasmania | South Australia | Western Australia | Northern Territory | Total | Papua[b] | New Guinea[b] |
|---|---|---|---|---|---|---|---|---|---|---|
| | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz |
| To 1900 | 1,847,939 | 157,233,680 | 1,030,890 | | 9,781 | | | | 16,340 | |
| 1901 | 571,561 | 11,821,597 | 83,162 | | — | | | | 3,090 | |
| 1902 | 701,312 | 10,325,760 | 47,683 | | — | | | | 3,070 | |
| 1903 | 642,125 | 8,226,201 | 28,800 | | 7,086 | | | | 3,430 | |
| 1904 | 654,929 | 10,696,725 | 28,653 | | — | | | | 3,380 | |
| 1905 | 601,712 | 10,285,495 | 32,600 | | — | Total to | | | 3,250 | |
| 1906 | 783,087 | 8,686,423 | 35,125 | | 801 | end of | | | 3,540 | |
| 1907 | 921,497 | 12,149,682 | 31,681 | Figures not | 5,845 | 1908 | | Not | 2,240 | |
| 1908 | 1,162,276 | 11,983,669 | 25,665 | available | — | 819,300 | | available | 2,540 | |
| 1909 | 1,001,383 | 10,584,791 | 21,655 | prior to 1919 | 1,660 | 132,204 | | prior to 1919 | 2,670 | |
| 1910 | 861,202 | 12,804,659 | 18,800 | | 6,250 | 124,486 | | | 1,980 | |
| 1911 | 549,015 | 14,529,145 | 19,147 | | 1,400 | 118,247 | | | 2,300 | |
| 1912 | 569,181 | 13,514,249 | 17,424 | | 2,700 | 110,352 | | | 2,770 | |
| 1913 | 604,979 | 14,504,889 | 16,152 | | 2,660 | 118,847 | | | 3,150 | |
| 1914 | 253,964 | 13,360,526 | 13,460 | | 3,006 | 114,379 | | | 2,860 | |
| 1915 | 239,748 | 7,012,257 | 11,687 | | 2,462 | 130,120 | | | 3,230 | |
| 1916 | 243,084 | 8,107,892 | 8,746 | | 3,427 | 118,677 | | | 740 | |
| 1917 | 241,639 | 8,545,979 | 7,669 | | 1,825 | 124,191 | | | 730 | |
| 1918 | 152,499 | 9,259,961 | 6,333 | | 1,608 | 118,748 | | | 4,270 | |
| 1919 | 92,048 | 6,304,818 | 6,121 | 525,343 | 561 | 93,142 | | 7,022,033 | 5,490 | |
| 1920 | 274,235 | 675,332 | 6,231 | 623,359 | 1,005 | 95,744 | | 1,675,906 | 6,620 | |
| 1921 | 195,328 | 4,241,890 | 5,204 | 348,658 | 1,449 | 89,140 | | 4,881,669 | 8,880 | |
| 1922 | 273,036 | 9,912,927 | 6,978 | 794,585 | 2,512 | 98,050 | | 11,088,088 | 38,900 | |
| 1923 | 469,302 | 12,067,954 | 6,304 | 638,602 | 43 | 76,123 | | 13,258,328 | 11,700 | |
| 1924 | 276,651 | 9,256,671 | 4,216 | 642,158 | 1,017 | 66,341 | | 10,247,054 | 580 | |
| 1925 | 385,489 | 9,220,160 | 2,082 | 730,194 | 1,458 | 60,529 | | 10,399,912 | 790 | Total to 1926 |
| 1926 | 252,540 | 9,709,741 | 2,373 | 766,653 | 353 | 44,263 | | 10,775,923 | 1,350 | 11,000 |
| 1927 | 84,118 | 10,241,243 | 1,471 | 741,782 | 179 | 31,230 | Figures not | 11,100,023 | 1,990 | 92,640 |
| 1928 | 22,034 | 8,328,895 | 1,454 | 669,326 | — | 37,042 | available | 9,058,751 | 700 | 34,500 |
| 1929 | 52,663 | 8,455,581 | 909 | 864,354 | 1,206 | 34,891 | prior to 1950 | 9,409,662 | 660 | 22,800 |
| 1930 | 69,808 | 8,721,042 | 813 | 711,619 | 1,058 | 34,515 | | 9,538,855 | 1,260 | 19,800 |
| 1931 | 1,088,478 | 6,638,821 | 1,512 | 391,732 | 68 | 43,211 | | 8,163,822 | 1,640 | 36,000 |
| 1932 | 2,301,782 | 6,074,227 | 2,082 | 463,488 | — | 58,165 | | 8,899,744 | 560 | 54,150 |
| 1933 | 2,248,804 | 8,221,271 | 2,435 | 489,330 | — | 65,530 | | 11,027,370 | 5,800 | 78,636 |
| 1934 | 2,259,574 | 8,207,520 | 3,106 | 284,687 | — | 45,765 | | 10,800,652 | 8,600 | 86,964 |
| 1935 | 2,409,165 | 9,091,946 | 3,948 | 323,901 | — | 50,562 | | 11,879,522 | 5,500 | 94,371 |
| 1936 | 3,084,008 | 8,557,803 | 7,964 | 906,458 | 1,560 | 76,803 | | 12,634,596 | 6,900 | 123,820 |
| 1937 | 3,264,994 | 9,780,499 | 5,443 | 1,060,785 | 355 | 166,384 | | 14,279,060 | 11,900 | 172,201 |

[a]Silver extracted from gold at the Melbourne mint and contained in other ores and concentrates. [b]1900–1949, year ending 30th June; 1956 and after, year ending 31st December.

| Year | Queensland | New South Wales | Victoria[a] | Tasmania | South Australia | Western Australia | Northern Territory | Total | Papua[b] | New Guinea[b] |
|---|---|---|---|---|---|---|---|---|---|---|
| | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz |
| 1938 | 3,533,490 | 9,558,550 | 5,898 | 1,219,550 | 503 | 228,896 | | 14,546,887 | 15,400 | 148,040 |
| 1939 | 3,885,963 | 9,584,749 | 6,285 | 1,278,116 | 541 | 252,250 | | 15,007,904 | 28,800 | 195,300 |
| 1940 | 4,365,838 | 8,577,682 | 7,737 | 1,608,681 | 2,715 | 255,931 | | 14,818,584 | 15,800 | 184,584 |
| 1941 | 3,865,514 | 9,356,834 | 17,468 | 1,326,738 | 4,660 | 250,607 | | 14,821,822 | n.a. | 57,613 |
| 1942 | 3,055,435 | 9,105,321 | 17,029 | 1,190,061 | 3,613 | 196,090 | | 13,567,548 | — | — |
| 1943 | 775,072 | 7,829,769 | 17,423 | 1,116,576 | 352 | 125,948 | | 9,865,140 | — | — |
| 1944 | 112,254 | 7,066,628 | 15,342 | 1,028,176 | 2,365 | 130,164 | | 8,454,929 | — | — |
| 1945 | 112,710 | 6,686,321 | 14,861 | 816,157 | 3,241 | 126,599 | | 7,759,889 | — | — |
| 1946 | 980,538 | 5,957,722 | 13,560 | 896,293 | 607 | 161,939 | | 8,010,659 | — | — |
| 1947 | 2,100,966 | 6,308,357 | 10,133 | 918,971 | 752 | 199,301 | | 9,524,878 | — | — |
| 1948 | 2,306,869 | 6,029,386 | 9,964 | 907,215 | 1,618 | 193,805 | | 9,448,857 | Combined | |
| 1949 | 2,872,577 | 5,999,674 | 12,313 | 1,011,032 | 1,749 | 204,921 | | 10,102,269 | 41,911 | |
| 1950[c] | 2,829,810 | 6,847,686 | 9,473 | 1,040,840 | 1,348 | 205,313 | 339 | 10,934,809 | 35,018 | |
| 1951[c] | 2,696,166 | 6,479,493 | 8,326 | 980,762 | 457 | 196,743 | 1 | 10,361,948 | 41,455 | |
| 1952[c] | 3,350,697 | 6,756,254 | 5,846 | 1,152,101 | 644 | 209,581 | 4,319 | 11,479,442 | 63,011 | |
| 1953[c] | 2,980,669 | 8,069,013 | 6,268 | 1,240,611 | 699 | 241,629 | 255 | 12,539,144 | 58,794 | |
| 1954[c] | 3,616,024 | 8,680,114 | 3,443 | 1,321,371 | 625 | 237,639 | 3,542 | 13,862,772 | 49,062 | |
| 1955[c] | 4,395,640 | 8,823,211 | 1,633 | 1,166,307 | 142 | 200,748 | 16,621 | 14,604,302 | 44,713 | |
| 1956[c] | 3,731,477 | 9,289,583 | 2,255 | 1,372,787 | 653 | 192,589 | 27,365 | 14,616,709 | 42,549 | |
| 1957[c] | 4,305,886 | 9,969,102 | 3,157 | 1,299,063 | 975 | 187,530 | 45,417 | 15,811,130 | 38,101 | |
| 1958[c] | 5,710,031 | 8,992,293 | 3,018 | 1,394,812 | 613 | 189,375 | 49,664 | 16,339,812 | 25,065 | |
| 1959 | 4,953,209 | 8,555,203 | 2,016 | 1,369,069 | 394 | 179,601 | 101,138 | 15,160,630 | 36,830 | |
| 1960[c] | 5,121,700 | 8,397,889 | 576 | 1,398,382 | — | 196,756 | 84,803 | 15,200,106 | 33,060 | |
| 1961[c] | 3,882,791 | 7,447,957 | 648 | 1,436,023 | — | 211,948 | 82,182 | 13,061,549 | 30,246 | |
| 1962[c] | 5,600,502 | 9,929,179 | 472 | 1,700,053 | — | 218,366 | 105,119 | 17,553,691 | 24,511 | |
| 1963[c] | 6,202,059 | 11,424,858 | 546 | 1,702,652 | — | 220,854 | 90,956 | 19,641,925 | 23,696 | |
| 1964[c] | 5,571,630 | 10,734,812 | 646 | 1,780,101 | — | 241,732 | 98,069 | 18,426,990 | 23,206 | |
| Total[d] 1862–1964 | 124,622,706 | 729,799,575 | 1,752,314 | — | 92,601 | 8,728,780 | 709,790 | 911,361,365 | 2,090,293 | |
| Total 1919–1964 | — | — | — | 45,655,599 | — | — | — | 541,559,359 | — | |

[a] Silver extracted from gold at the Melbourne mint and contained in other ores and concentrates. [b] 1900–1949, year ending 30th June; 1956 and after, year ending 31st December. [c] As recorded by Commonwealth Bureau of Census and Statistics. [d] Excluding production in Tasmania prior to 1919 and in the Northern Territory prior to 1950.

## SILVER (REFINED) PRODUCTION[a]—AUSTRALIA

| Year | Smelters | Mints | Total |
|---|---|---|---|
| | fine oz | fine oz | fine oz |
| 1910 | 4,017,546 | 211,228 | 4,228,774 |
| 1911 | 4,377,114 | 239,682 | 4,616,796 |
| 1912 | 4,413,942 | 235,144 | 4,649,086 |
| 1913 | 4,839,082 | 225,974 | 5,065,056 |
| 1914 | 4,020,904 | 226,019 | 4,246,923 |
| 1915 | 4,587,391 | 229,986 | 4,817,377 |
| 1916 | 5,022,155 | 229,449 | 5,251,604 |
| 1917 | 6,236,187 | 200,892 | 6,437,079 |
| 1918 | 9,736,757 | 187,565 | 9,924,322 |
| 1919 | 6,534,888 | 161,900 | 6,696,788 |
| 1920 | 562,651 | 118,719 | 681,370 |
| 1921 | 4,455,515 | 117,363 | 4,572,878 |
| 1922 | 7,773,165 | 122,887 | 7,896,052 |
| 1923 | 7,545,020 | 100,669 | 7,645,689 |
| 1924 | 7,529,845 | 101,368 | 7,631,213 |
| 1925 | 8,486,829 | 86,677 | 8,573,506 |
| 1926 | 8,873,009 | 73,209 | 8,946,218 |
| 1927 | 9,337,459 | 52,611 | 9,390,070 |
| 1928 | 7,991,359 | 61,892 | 8,053,251 |
| 1929 | 9,170,802 | 58,712 | 9,229,514 |
| 1930 | 8,943,186 | 59,519 | 9,002,705 |
| 1931 | 7,282,731 | 67,063 | 7,349,794 |
| 1932 | 6,413,999 | 85,406 | 6,499,405 |
| 1933 | 7,856,448 | 100,700 | 7,957,148 |
| 1934 | 8,583,133 | 91,416 | 8,674,549 |
| 1935 | 8,880,823 | 103,127 | 8,983,950 |
| 1936 | 8,360,673 | 138,001 | 8,498,674 |
| 1937 | 9,279,983 | 230,526 | 9,510,509 |
| 1938 | 9,102,178 | 254,961 | 9,357,139 |
| 1939 | 9,552,000 | 292,491 | 9,844,491 |
| 1940 | 8,971,000 | 325,729 | 9,296,729 |
| 1941 | 9,758,000 | 291,712 | 10,049,712 |
| 1942 | 9,508,000 | 243,418 | 9,751,418 |
| 1943 | 8,263,000 | 153,135 | 8,416,135 |
| 1944 | 7,176,000 | 145,144 | 7,321,144 |
| 1945 | 7,464,000 | 150,661 | 7,614,661 |
| 1946 | 6,182,760 | 181,564 | 6,364,324 |
| 1947 | 6,658,296 | 241,459 | 6,899,755 |
| 1948 | 6,264,207 | 201,409 | 6,465,616 |
| 1949 | 5,652,140 | 205,362 | 5,857,502 |
| 1950 | 6,692,772 | 189,256 | 6,882,028 |
| 1951 | 6,679,273 | 199,559 | 6,878,832 |
| 1952 | 6,539,778 | 232,846 | 6,772,624 |
| 1953 | 6,343,410 | 252,030 | 6,595,440 |
| 1954 | 8,225,305 | 248,782 | 8,474,087 |
| 1955 | 7,588,471 | 299,116 | 7,817,587 |
| 1956 | 8,017,169 | 214,808 | 8,231,977 |
| 1957 | 7,797,718 | 213,383 | 8,011,101 |
| 1958 | 8,880,698 | 220,373 | 9,101,071 |
| 1959 | 7,593,068 | 211,913 | 7,804,981 |
| 1960 | 7,874,462 | 210,585 | 8,085,047 |
| 1961 | 6,902,668 | 196,621 | 7,099,289 |
| 1962 | 7,129,506 | 248,621 | 7,378,127 |
| 1963 | 8,658,546 | 227,597 | 8,886,143 |
| 1964 | 9,018,781 | 239,049 | 9,257,830 |

[a]Figures not available prior to 1910.

## SILVER (REFINED)—PRICES

(Yearly average)

| Year | Aust. | U.K. | U.S.A. | Year | Aust. | U.K. | U.S.A. |
|---|---|---|---|---|---|---|---|
| | d.A. per oz | d.stg. per oz | cents per oz | | d.A. per oz | d.stg. per oz | cents per oz |
| 1920 | 61 | 61 | 100·90 | 1943 | 29 | 24 | 44·75 |
| 1921 | 37 | 37 | 62·65 | 1944 | 29 | 24 | 44·75 |
| 1922 | 34 | 34 | 67·53 | | | | |
| 1923 | 32 | 32 | 64·87 | 1945 | 35 | 31 | 51·93 |
| 1924 | 34 | 34 | 66·78 | 1946 | 56 | 49 | 80·15 |
| | | | | 1947 | 52 | 44 | 71·82 |
| 1925 | 32 | 32 | 69·06 | 1948 | 56 | 45 | 74·36 |
| 1926 | 29 | 29 | 62·11 | 1949 | 62 | 49 | 71·93 |
| 1927 | 26 | 26 | 56·37 | | | | |
| 1928 | 27 | 27 | 58·18 | 1950 | 81 | 65 | 74·17 |
| 1929 | 24 | 24 | 52·99 | 1951 | 98 | 78 | 89·37 |
| | | | | 1952 | 93 | 74 | 84·94 |
| 1930 | 19 | 18 | 38·15 | 1953 | 92 | 74 | 85·19 |
| 1931 | 19 | 15 | 28·70 | 1954 | 92 | 73 | 86·25 |
| 1932 | 22 | 18 | 27·89 | | | | |
| 1933 | 22 | 18 | 34·73 | 1955 | 97 | 78 | 89·10 |
| 1934 | 26 | 21 | 47·97 | 1956 | 99 | 79 | 90·83 |
| | | | | 1957 | 99 | 79 | 90·82 |
| 1935 | 36 | 29 | 64·27 | 1958 | 96 | 76 | 89·04 |
| 1936 | 25 | 20 | 45·09 | 1959 | 99 | 79 | 91·02 |
| 1937 | 25 | 20 | 44·88 | | | | |
| 1938 | 24 | 20 | 43·22 | 1960 | 99 | 79 | 91·37 |
| 1939 | 25 | 20 | 39·08 | 1961 | 101 | 80 | 92·45 |
| | | | | 1962 | 115 | 92 | 108·37 |
| 1940 | 27 | 23 | 34·77 | 1963 | 138 | 110 | 127·91 |
| 1941 | 28 | 23 | 34·78 | 1964 | 140 | 112 | 129·30 |
| 1942 | 29 | 24 | 38·33 | | | | |

SILVER—EXPORTS[a]—AUSTRALIA

| Year | Bar, Sheet, etc. | | In Matte[b] In Unrefined Gold and Silver Bullion[c] | | Silver in all Ores and Cons | Silver in Lead Silver Bullion |
|---|---|---|---|---|---|---|
| | fine oz | £, f.o.b. | fine oz | £, f.o.b. | fine oz | fine oz |
| 1903 | 5,524,834 | 608,837 | 1,033,920 | 106,419 | n.a. | — |
| 1904 | 7,372,862 | 852,378 | — | — | n.a. | — |
| 1905 | 5,674,853 | 700,504 | 1,027,513 | 117,899 | n.a. | — |
| 1906 | 5,155,594 | 661,003 | 1,312,342 | 153,871 | n.a. | — |
| 1907 | 4,859,135 | 616,197 | 4,614,825 | 576,959 | n.a. | — |
| 1908 | 5,725,624 | 581,689 | 4,763,545 | 489,460 | n.a. | — |
| 1909 | 2,925,702 | 289,908 | 3,844,285 | 370,329 | 7,079,066 | |
| 1910 | 4,434,000 | 457,180 | 3,073,007 | 296,228 | 8,362,025 | — |
| 1911 | 4,708,518 | 485,447 | 2,312,799 | 219,971 | 9,529,686 | — |
| 1912 | 4,934,830 | 580,384 | 2,747,540 | 255,738 | 8,703,547 | — |
| 1913 | 5,485,665 | 634,630 | 2,623,352 | 266,444 | 9,730,247 | — |
| 1914 | n.a. | n.a. | n.a. | n.a. | n.a. | — |
| 1914–15 | 4,384,222 | 433,469 | 2,467,183 | 247,012 | 2,313,130 | — |
| 1915–16 | 3,520,719 | 367,069 | 3,070,799 | 336,220 | 1,972,870 | — |
| 1916–17 | 3,350,142 | 493,690 | 2,261,027 | 325,668 | 1,696,039 | — |
| 1917–18 | 4,755,270 | 906,651 | 903,095 | 162,488 | 606,216 | — |
| 1918–19 | 9,513,657 | 1,938,001 | — | — | 693,295 | — |
| 1919–20 | 3,992,715 | 979,307 | 59,354 | 14,425 | 346,850 | — |
| 1920–21 | 481,573 | 77,319 | 110,415 | 21,611 | 530,272 | — |
| 1921–22 | 5,250,488 | 841,085 | 46,261 | 6,800 | 1,654,709 | — |
| 1922–23 | 7,305,786 | 1,069,159 | 287,007 | 42,116 | 4,697,556 | — |
| 1923–24 | 7,111,964 | 997,874 | 447,001 | 65,643 | 4,425,543 | — |
| 1924–25 | 7,289,290 | 1,084,825 | 158,662 | 23,007 | 2,820,510 | — |
| 1925–26 | 7,588,673 | 1,073,356 | 250,251 | 34,468 | 3,344,816 | — |
| 1926–27 | 7,676,539 | 911,107 | 39,148 | 4,563 | 2,155,429 | — |
| 1927–28 | 7,455,322 | 880,550 | 65,933 | 7,716 | 3,103,769 | — |
| 1928–29 | 7,741,263 | 908,971 | — | — | 1,741,932 | — |
| 1929–30 | 8,919,895 | 847,635 | — | — | 1,521,685 | — |
| 1930–31 | 8,448,261 | 556,367 | — | — | 1,096,789 | — |
| 1931–32 | 5,844,824 | 583,498 | — | — | 273,041 | — |
| 1932–33 | 6,312,693 | 639,206 | — | — | 665,863 | — |
| 1933–34 | 8,717,845 | 958,619 | — | — | 1,315,336 | — |
| 1934–35 | 4,036,708 | 530,822 | — | — | 362,372 | — |

[a]Not available prior to 1903. [b]Years 1903 to 1947. [c]Years 1954 to 1959.

SILVER—EXPORTS[a]—AUSTRALIA—*continued*

| Year | Bar, Sheet, etc. | | In Matte[b] In Unrefined Gold and Silver Bullion[c] | | Silver in all Ores and Cons | Silver in Lead Silver Bullion |
|---|---|---|---|---|---|---|
| | fine oz | £, f.o.b. | fine oz | £, f.o.b. | fine oz | fine oz |
| 1935–36 | 6,455,105 | 874,495 | — | — | 1,044,219 | — |
| 1936–37 | 5,166,288 | 587,974 | — | — | 1,220,845 | — |
| 1937–38 | 9,106,684 | 989,296 | — | — | 2,345,778 | — |
| 1938–39 | 9,426,059 | 966,716 | — | — | 1,840,159 | — |
| 1939–40 | 9,091,993 | 916,819 | — | — | 1,855,982 | — |
| 1940–41 | 2,414,000 | 301,248 | — | — | 810,733 | — |
| 1941–42 | 4,529,806 | 442,424 | — | — | 1,655,485 | — |
| 1942–43 | 8,302 | 1,277 | — | — | 858,127 | — |
| 1943–44 | — | — | — | — | 1,286,325 | — |
| 1944–45 | — | — | — | — | 1,402,076 | — |
| 1945–46 | 89,095 | 18,374 | 20,850 | 3,750 | 358,779 | — |
| 1946–47 | 159,110 | 36,147 | 2,194 | 580 | 726,627 | — |
| 1948 | 5,385,887 | 1,138,146 | — | — | n.a. | [e]1,833,744 |
| 1949 | 4,555,738 | 1,102,757 | — | — | n.a. | [e]2,827,200 |
| 1950 | 7,488,141 | 2,276,834 | — | — | n.a. | [e]2,327,187 |
| 1951 | 7,180,541 | 2,873,107 | — | — | 904,223 | [e]2,942,760 |
| 1952 | 5,954,090 | 2,276,516 | — | — | 1,565,874 | [e]2,023,253 |
| 1953 | 5,162,656 | 1,960,255 | — | — | 2,204,790 | 3,382,302 |
| 1954 | 7,417,670 | 2,802,623 | 13,500 | 5,067 | 1,943,150 | 2,908,945 |
| 1955 | 5,951,917 | 2,437,383 | 72,182 | 28,923 | 1,907,303 | 3,318,541 |
| 1956 | 16,443,473 | 5,510,776 | 148,050 | 54,448 | 2,162,559 | 3,518,686 |
| 1957 | 3,672,370 | 1,505,092 | 12,190 | 4,350 | 2,476,886 | 4,097,727 |
| 1958 | 4,875,869 | 1,911,973 | — | — | 2,563,743 | 4,696,063 |
| 1959 | 3,001,719 | 1,224,024 | — | — | 2,365,819 | 4,241,700 |
| 1960 | 2,799,956 | 1,149,574 | — | — | 2,428,840 | 3,972,260 |
| 1961 | 1,055,070 | 436,693 | — | — | 2,866,664 | 3,593,740 |
| 1962 | 346,607 | 157,546 | — | — | 3,104,398 | 4,865,453 |
| 1963 | 1,460,377 | 840,587 | — | — | 2,978,636 | 5,122,294 |
| 1964 | 4,549,071 | 2,667,455 | — | — | 3,427,390 | 4,878,279 |

[a]Not available prior to 1903. [b]Years 1903 to 1947. [c]Years 1954 to 1959.

SILVER—IMPORTS[a]—AUSTRALIA
(Refined or contained in unrefined gold and silver bullion)[b]

| Year | fine oz | £, f.o.b. | Year | fine oz | £, f.o.b. |
|---|---|---|---|---|---|
| 1903 | 456 | 46 | 1934–35 | 132,932 | 17,903 |
| 1904 | 1,281 | 140 | 1935–36 | 146,228 | 19,760 |
| | | | 1936–37 | 163,143 | 18,481 |
| 1905 | 125,648 | 12,189 | 1937–38 | 187,475 | 21,507 |
| 1906 | 313,668 | 30,507 | 1938–39 | 200,568 | 22,963 |
| 1907 | 3,657 | 439 | | | |
| 1908 | 6,103 | 620 | 1939–40 | 234,270 | 30,640 |
| 1909 | 20,004 | 2,065 | 1940–41 | 227,491 | 33,311 |
| | | | 1941–42 | 119,501 | 17,343 |
| 1910 | 45,388 | 4,536 | 1942–43 | 19,153 | 2,621 |
| 1911 | 35,874 | 3,657 | 1943–44 | 6,957 | 961 |
| 1912 | 50,808 | 5,846 | | | |
| 1913 | 37,952 | 4,448 | 1944–45 | 3,614 | 430 |
| 1914 | n.a. | n.a. | 1945–46 | 9,119 | 2,088 |
| | | | 1946–47 | 35,345 | 8,564 |
| 1914–15 | 18,843 | 1,868 | | | |
| 1915–16 | 5,602 | 595 | 1948 | 51,528 | 11,502 |
| 1916–17 | 4,597 | 611 | 1949 | 30,081 | 8,100 |
| 1917–18 | 501,160 | 86,741 | | | |
| 1918–19 | 313,355 | 69,962 | 1950 | 74,688 | 22,210 |
| | | | 1951 | 79,186 | 27,961 |
| 1919–20 | 11,327 | 2,700 | 1952 | 123,240 | 46,209 |
| 1920–21 | 25,356 | 3,650 | 1953 | 63,123 | 23,380 |
| 1921–22 | 24,354 | 3,510 | 1954 | 103,818 | 38,120 |
| 1922–23 | 29,709 | 3,839 | | | |
| 1923–24 | 20,519 | 2,610 | 1955 | 75,871 | 28,169 |
| | | | 1956 | 102,268 | 40,386 |
| 1924–25 | 14,844 | 3,313 | 1957 | 76,776 | 30,591 |
| 1925–26 | 34,230 | 4,835 | 1958 | 74,781 | 28,822 |
| 1926–27 | 31,785 | 3,571 | 1959 | 77,507 | 31,140 |
| 1927–28 | 47,675 | 5,469 | | | |
| 1928–29 | 41,568 | 4,841 | 1960 | 68,923 | 27,707 |
| | | | 1961 | 70,067 | 27,959 |
| 1929–30 | 66,762 | 5,832 | 1962 | 71,230 | 31,697 |
| 1930–31 | 26,500 | 1,855 | 1963 | 108,285 | 57,975 |
| 1931–32 | 31,031 | 2,936 | 1964 | 101,862 | 59,084 |
| 1932–33 | 113,869 | 10,618 | | | |
| 1933–34 | 112,916 | 10,862 | | | |

[a]Not available prior to 1903. [b]For years 1903 to 1906, silver imported was described as "Silver Bullion". From 1907 to 1952 it was recorded as "Bar, rod, etc." Subsequent to 1952 the silver imported was the silver content of unrefined gold and silver bullion, excepting 16 fine oz of silver strip valued at £8, imported in 1956.

| Year | Mt. Isa District[a] | Herberton District | Chillagoe District | Stanthorpe District | Charters Towers District | Mount Perry District | Ravenswood and Star Wood Districts | Ethridge District | Mount Morgan District | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz |
| 1892 | — | 198,492 | — | 280 | — | — | 25,188 | 84 | — | 766 | 224,810 |
| 1893 | — | 287,665 | — | 17,128 | — | — | 34,218 | — | — | 256 | 339,267 |
| 1894 | — | 78,343 | — | 85,067 | — | — | 5,764 | — | — | 13,984 | 183,158 |
| 1895 | — | 59,971 | — | 106,940 | — | — | 33,650 | — | — | 24,458 | 225,019 |
| 1896 | — | 37,030 | 15,378 | 122,421 | 41 | — | 102,600 | — | — | 1,814 | 279,284 |
| 1897 | — | 35,281 | 49,950 | 113,822 | 637 | — | 29,406 | 63 | — | 4,906 | 234,065 |
| 1898 | — | 12,040 | — | 60,000 | 802 | 44 | 23,917 | 34 | — | 7,184 | 104,021 |
| 1899 | — | 11,090 | — | 75,698 | 2,334 | 481 | 54,308 | 42 | — | 1,372 | 145,325 |
| 1900 | 29 | 5,249 | — | 68,914 | 4,283 | 2,636 | 7,214 | 37 | — | 24,628 | 112,990 |
| 1901 | 65 | 400,646 | — | 75,055 | 18,980 | 20,334 | 15,398 | 448 | 163 | 40,472 | 571,561 |
| 1902 | 191 | 519,227 | — | 74,820 | 34,916 | 40,585 | 18,940 | 30 | — | 12,603 | 701,312 |
| 1903 | 456 | 423,968 | — | 85,460 | 15,583 | 72,398 | 7,302 | — | — | 36,958 | 642,125 |
| 1904 | 13 | 363,373 | — | 122,385 | 38,733 | 75,447 | 10,371 | — | 615 | 44,442 | 654,929 |
| 1905 | 556 | 260,995 | — | 140,882 | 58,887 | 91,634 | 14,284 | 878 | 81 | 33,515 | 601,712 |
| 1906 | — | 349,432 | 4,185 | 170,146 | 80,878 | 92,505 | 16,524 | 8,222 | — | 61,195 | 783,087 |
| 1907 | — | 488,993 | 14,268 | 157,662 | 98,696 | 103,304 | 11,763 | 8,014 | — | 38,797 | 921,497 |
| 1908 | — | 660,893 | 2,490 | 177,632 | 132,520 | 80,828 | 24,013 | 4,282 | — | 79,618 | 1,162,276 |
| 1909 | 795 | 52,469 | 543,662 | 110,316 | 118,505 | 35,963 | 25,627 | 21,764 | 17,182 | 75,140 | 1,001,383 |
| 1910 | 4,445 | 57,624 | 344,095 | 110,787 | 115,109 | 44,542 | 12,760 | 82,627 | 17,854 | 71,449 | 861,202 |
| 1911 | 29,514 | 26,973 | 127,300 | 125,544 | 88,466 | 22,559 | 17,891 | 24,685 | 16,653 | 69,430 | 549,015 |
| 1912 | 40,394 | 85,614 | 164,544 | 69,386 | 60,784 | 20,598 | 11,929 | 19,728 | 30,775 | 65,430 | 569,181 |
| 1913 | 60,705 | 60,722 | 198,419 | 48,579 | 47,229 | 48,960 | 10,807 | 31,395 | 29,284 | 68,879 | 604,979 |
| 1914 | 56,550 | 18,446 | 28,576 | 8,268 | 35,501 | 14,992 | 4,389 | 12,468 | 33,978 | 40,796 | 253,964 |
| 1915 | 70,232 | 22,507 | 33,773 | — | 25,877 | 7,809 | 2,889 | 8,010 | 30,778 | 37,873 | 239,748 |
| 1916 | 59,337 | 48,725 | 5,508 | 5,004 | 21,804 | 4,577 | 2,524 | 21,810 | 38,023 | 35,772 | 243,084 |
| 1917 | 46,246 | 66,620 | 20,232 | 5,708 | 9,694 | 3,367 | 1,402 | 15,301 | 50,500 | 22,569 | 241,639 |
| 1918 | 29,496 | 33,464 | 5,953 | 24,509 | 5,579 | 1,205 | 206 | 16,059 | 25,550 | 10,478 | 152,499 |
| 1919 | 15,284 | 20,031 | 814 | 4,555 | 2,912 | 864 | 97 | 4,872 | 21,702 | 20,917 | 92,048 |
| 1920 | 28,452 | 70,496 | 73,279 | 20,578 | 2,612 | 3,219 | 554 | 25,882 | 24,442 | 24,721 | 274,235 |
| 1921 | 206 | 22,570 | 96,421 | 29,893 | 1,904 | 464 | 355 | 13,553 | 7,758 | 22,204 | 195,328 |
| 1922 | 206 | 17,099 | 195,885 | 26,626 | 1,983 | — | 389 | 9,672 | 12,963 | 8,213 | 273,036 |
| 1923 | 7,046 | 25,295 | 379,258 | 2,593 | 693 | — | 2,871 | 8,429 | 16,383 | 26,734 | 469,302 |
| 1924 | 13,911 | 61,619 | 67,883 | 710 | 621 | — | 1,963 | 16,017 | 16,947 | 96,980 | 276,651 |
| 1925 | 24,210 | 80,084 | 187,907 | 4,838 | 552 | — | 1,769 | 25,302 | 10,208 | 50,619 | 385,489 |
| 1926 | 8,882 | 98,524 | 110,258 | — | 56 | 73 | 480 | 27,500 | 749 | 6,018 | 252,540 |
| 1927 | 15,314 | 8,701 | 23,708 | — | 130 | — | 400 | 2,512 | 6,280 | 27,074 | 84,118 |
| 1928 | 9,418 | — | 594 | — | 30 | 35 | 145 | 941 | 5,311 | 5,561 | 22,034 |
| 1929 | 13,731 | 15,115 | 14,168 | — | 112 | 106 | 129 | 3,972 | — | 5,330 | 52,663 |
| 1930 | 9,908 | 34,628 | 13,677 | — | 60 | — | 519 | 5,944 | 81 | 4,991 | 69,808 |
| 1931 | 1,027,907 | 53,339 | 1,407 | — | 58 | — | 32 | 3,105 | 63 | 2,667 | 1,088,478 |
| 1932 | 2,237,343 | 42,474 | 5,669 | — | 2,701 | 191 | 173 | 5,373 | 60 | 7,798 | 2,301,782 |
| 1933 | 2,166,752 | 44,776 | 6,159 | — | 750 | 41 | 688 | 7,581 | — | 22,057 | 2,248,804 |
| 1934 | 2,199,613 | 25,253 | 4,462 | — | 488 | 703 | 513 | 4,752 | — | 23,790 | 2,259,574 |

[a] Established 1st January, 1958; figures were previously included in Cloncurry district.

| Year | Mt. Isa District[a] | Herberton District | Chillagoe District | Stanthorpe District | Charters Towers District | Mount Perry District | Ravenswood and Star Wood Districts | Ethridge District | Mount Morgan District | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz |
| 1935 | 2,356,750 | 21,245 | 7,140 | — | 1,529 | 68 | 1,311 | 6,562 | — | 14,560 | 2,409,165 |
| 1936 | 3,019,912 | 19,071 | 8,536 | — | 2,621 | 57 | 2,951 | 7,741 | — | 23,119 | 3,084,008 |
| 1937 | 3,185,983 | 17,880 | 5,713 | 138 | 4,380 | 595 | 2,847 | 17,096 | 35 | 30,327 | 3,264,994 |
| 1938 | 3,465,828 | 20,506 | 1,877 | — | 3,900 | 296 | 412 | 4,804 | 11 | 35,856 | 3,533,490 |
| 1939 | 3,818,447 | 13,416 | 946 | — | 5,619 | 126 | 1,213 | 8,240 | 9 | 37,947 | 3,885,963 |
| 1940 | 4,308,015 | 14,221 | 1,813 | — | 3,708 | 401 | 1,394 | 3,486 | 10 | 32,790 | 4,365,838 |
| 1941 | 3,802,382 | 20,364 | 1,882 | — | 2,715 | 796 | 705 | 3,502 | 152 | 33,016 | 3,865,514 |
| 1942 | 3,001,675 | 22,265 | 503 | — | 3,129 | 778 | — | 5,105 | 167 | 21,813 | 3,055,435 |
| 1943 | 757,665 | 3,967 | 95 | — | 461 | 193 | — | 1,263 | 35 | 11,393 | 775,072 |
| 1944 | 86,927 | 353 | — | — | 281 | 86 | — | 413 | 16,237 | 7,957 | 112,254 |
| 1945 | 88,611 | — | — | — | 657 | — | — | 737 | 14,681 | 8,024 | 112,710 |
| 1946 | 949,626 | 365 | — | — | 480 | — | — | 1,026 | 17,552 | 11,489 | 980,538 |
| 1947 | 2,064,507 | 856 | 7 | — | 866 | — | — | 9,789 | 15,084 | 9,857 | 2,100,966 |
| 1948 | 2,269,780 | 45 | — | — | 1,231 | 9 | 23 | 5,542 | 13,775 | 16,464 | 2,306,869 |
| 1949 | 2,832,373 | — | — | — | — | — | — | 3,610 | 14,519 | 22,075 | 2,872,577 |
| 1950 | 2,800,595 | — | — | — | — | — | — | 1,420 | 16,494 | 11,301 | 2,829,810 |
| 1951 | 2,663,133 | — | 467 | — | 285 | — | 12 | 2,425 | 18,337 | 11,507 | 2,696,166 |
| 1952 | 3,301,109 | — | — | 9,329 | 2,481 | — | 1,646 | 2,597 | 21,853 | 11,682 | 3,350,697 |
| 1953 | 2,946,467 | — | — | — | 4,205 | — | 1,379 | 869 | 24,578 | 3,171 | 2,980,669 |
| 1954 | 3,583,150 | — | — | — | 6,557 | — | — | — | 23,056 | 3,261 | 3,616,024 |
| 1955 | 4,366,141 | — | 180 | — | 3,252 | — | — | — | 18,208 | 7,859 | 4,395,640 |
| 1956 | 3,667,617 | — | — | — | 2,610 | 19 | — | — | 24,967 | 36,264 | 3,731,477 |
| 1957 | 4,240,180 | — | — | — | 11,032 | — | — | — | 20,025 | 34,649 | 4,305,886 |
| 1958 | 5,647,556 | 72 | — | — | 9,512 | — | — | — | 17,938 | 34,953 | 5,710,031 |
| 1959 | 4,889,042 | — | — | — | 14,257 | — | — | — | 22,626 | 27,284 | 4,953,209 |
| 1960 | 5,057,247 | — | — | — | 11,999 | — | — | — | 27,841 | 24,613 | 5,121,700 |
| 1961 | 3,823,926 | 11 | — | — | 7,727 | — | — | — | 29,117 | 22,010 | 3,882,791 |
| 1962 | 5,539,380 | — | — | — | 7,979 | — | — | — | 40,285 | 12,858 | 5,600,502 |
| 1963 | 6,087,261 | 44 | — | — | 470 | — | — | — | 43,539 | 70,745 | 6,202,059 |
| 1964 | 5,511,055 | — | — | — | — | — | — | — | 41,396 | 19,179 | 5,571,630 |
| Total | 108,309,567 | 5,382,104 | 2,768,821 | 2,253,573 | 1,144,151 | 793,888 | 550,254 | 527,615 | 896,460 | 1,996,273 | 124,622,706 |

[a] Established 1st January, 1958; figures were previously included in Cloncurry district.

Silver and lead returns were not separated prior to 1893. Production of silver prior to 1892 based on estimate by Dunstan 1913 is as follows:—

| Period | District | Fine oz |
|---|---|---|
| 1890–1891 | Bowen | 25,025 |
| 1888 | Burketown | 982 |
| 1886 | Gayndah | 7,160 |
| 1883–1891 | Herberton | 1,584,981 |
| 1879–1891 | Ravenswood and Star River | 1,011,767 |
| | Total | 2,629,915 |

| Year | Broken Hill[a] | | Yerranderie | Captain's Flat[a] | | | Cobar District | Burrowa and Kangiara | Conrad Mine and Tingha Mine | Condobolin District | | Total[d] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In Lead Concentrates | In Zinc Concentrates | | In Lead Concentrates | In Zinc Concentrates | In Copper Concentrates | | | | Potter's Mine | Mineral Hill | |
| | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz |
| Total to end of— | | | | Total | 1887–1899 | 1,106,396 | | | | | | |
| 1900 | | | 97,887 | — | — | — | 265,587 | — | — | — | — | 157,233,680 |
| 1901 | | | 86,017 | — | — | — | 51,142 | — | — | — | — | 11,821,597 |
| 1902 | | | 146,018 | — | — | — | 38,488 | — | — | — | — | 10,325,760 |
| 1903 | Estimated total to end of 1909 230,404,174 | | 145,275 | | | | 50,841 | — | — | — | — | 8,226,201 |
| 1904 | | | 263,621 | | | | 50,334 | — | — | — | — | 10,696,725 |
| 1905 | | | 243,403 | | | | 91,440 | — | — | — | — | 10,285,495 |
| 1906 | | | 223,572 | — | — | — | 80,751 | — | — | — | — | 8,686,423 |
| 1907 | | | 479,243 | — | — | — | 84,375 | 7,615 | 295,185 | 12,880 | — | 12,149,682 |
| 1908 | | | 828,129 | — | — | — | 90,218 | [c] | 306,637 | [c] | — | 11,983,669 |
| 1909 | | | 719,264 | — | — | — | 79,887 | 91,847 | [c] | [c] | — | 10,584,791 |
| 1910 | 5,585,379 | 4,878,560 | 783,295 | — | — | — | 114,467 | 133,777 | [c] | 16,676 | — | 12,804,659 |
| 1911 | 7,008,212 | 5,386,050 | 728,340 | — | — | — | 125,276 | 40,538 | [c] | 4,000 | — | 14,529,145 |
| 1912 | 7,673,345 | 5,379,608 | 676,095 | — | — | — | 275,861 | 95,860 | 395,244 | 1,104 | 49,920 | 13,514,249 |
| 1913 | 8,242,528 | 4,607,802 | 475,866 | — | — | — | 125,297 | 12,710 | [c] | 1,524 | 114,045 | 14,504,889 |
| 1914 | 6,535,189 | 3,814,834 | 520,880 | — | — | — | 24,612 | 3,953 | [c] | 880 | 28,181 | 13,360,526 |
| 1915 | 5,466,157 | 2,777,605 | 475,180 | — | — | — | 1,838 | 22,210 | 4,725 | 423 | 50,961 | 7,012,257 |
| 1916 | 5,475,900 | 2,278,887 | 174,321 | — | — | — | 47,968 | 8,943 | 3,600 | [c] | 16,785 | 8,107,892 |
| 1917 | 6,705,078 | 3,454,510 | 276,034 | — | — | — | 55,923 | 10,189 | 4,757 | [c] | [c] | 8,545,979 |
| 1918 | 8,631,443 | 3,964,394 | 317,459 | — | — | — | 98,303 | 245 | [c] | [c] | [c] | 9,259,961 |
| 1919 | 2,987,331 | 1,330,143 | 286,955 | — | — | — | 18,340 | 279 | [c] | 42 | 96 | 6,304,818 |
| 1920 | 319,236 | 238,522 | 299,123 | — | — | — | 50,789 | [c] | 8,579 | 4,591 | 7,335 | 675,332 |
| 1921 | 3,506,858 | 3,547,783 | 250,000 | — | — | — | 79,868 | 571 | 1,080 | — | 1,285 | 4,241,890 |
| 1922 | 6,995,300 | 4,177,113 | 294,756 | — | — | — | — | 10,003 | 1,669 | — | 550 | 9,912,927 |
| 1923 | 6,302,930 | 2,823,477 | 575,491 | — | — | — | — | 3,797 | 605 | — | 1,431 | 12,067,954 |
| 1924 | 5,287,225 | 1,435,741 | 464,510 | — | — | — | — | 869 | — | — | 2,568 | 9,256,671 |
| 1925 | 6,830,072 | 1,584,455 | 111,532 | — | — | — | 5,300 | 2,575 | — | 24 | 770 | 9,220,160 |
| 1926 | 6,565,296 | 1,726,636 | 95,021 | — | — | — | — | 34 | — | — | — | 9,709,741 |
| 1927 | 7,761,495 | 1,935,000 | 212,931 | — | — | — | — | 362 | — | — | — | 10,241,243 |
| 1928 | 7,078,733 | 1,064,524 | 206,367 | — | — | — | — | [c] | — | — | — | 8,328,895 |
| 1929 | 7,695,174 | 923,433 | 86,510 | — | — | — | — | 2,124 | — | — | — | 8,455,581 |
| 1930 | 8,129,111 | 588,772 | 84,945 | — | — | — | — | 3,840 | — | — | — | 8,721,042 |
| 1931 | 5,386,457 | 223,504 | — | — | — | — | — | — | — | — | 1,600 | 6,638,821 |
| 1932 | 6,583,192 | 430,870 | — | — | — | — | — | — | — | — | — | 6,074,227 |
| 1933 | 7,353,462 | 432,684 | — | — | — | — | — | — | — | — | — | 8,221,271 |

[a]Australian Mines and Metals Association figures 1910–1949. [b]Includes small quantities produced from the following localities:—Boorook, Sunny Corner, Rockley, Hillgrove, Costigan and Tuena, Rye Park, Mount Stewart, Moruya, Cordillera, Rivertree, Lewis Ponds, Armidale, Glen Innes and Emmaville Districts, Buddigower, Crake, Bobadah, Cootamundra, Wiseman's Creek, Drake, Cadia. [c]Not stated. [d]Not necessarily in agreement with previous columns.

| Year | Broken Hill[a] | | Yerranderie | Captain's Flat[a] | | | Cobar District | Burrowa and Kangiara | Conrad Mine and Tingha Mine | Condobolin District | | Total[d] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | In Lead Concentrates | In Zinc Concentrates | | In Lead Concentrates | In Zinc Concentrates | In Copper Concentrates | | | | Potter's Mine | Mineral Hill | |
| | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz |
| 1934 | 7,951,430 | 463,824 | [c] | — | — | — | — | — | — | — | — | 8,207,520 |
| 1935 | 7,965,291 | 507,927 | [c] | — | — | — | — | — | — | — | — | 9,091,946 |
| 1936 | 7,969,327 | 524,085 | 57,773 | — | — | — | 6,018 | 927 | — | — | — | 8,557,803 |
| 1937 | 8,438,414 | 563,529 | 77,983 | — | — | — | 2,329 | 243 | — | — | — | 9,780,499 |
| 1938 | 9,533,207 | 591,484 | 27,870 | — | — | — | 14,239 | [c] | — | — | — | 9,558,550 |
| 1939 | 8,890,260 | 477,691 | — | 122,081 | 21,985 | — | 12,392 | 102 | — | — | — | 9,584,749 |
| 1940 | 8,435,208 | 722,238 | — | 208,126 | 34,376 | — | 14,004 | — | — | — | — | 8,577,682 |
| 1941 | 8,985,444 | 398,524 | — | 287,205 | 25,918 | — | — | — | — | — | — | 9,356,834 |
| 1942 | 7,911,049 | 322,711 | — | 431,853 | 46,361 | 83,842 | 8,176 | — | — | — | — | 9,105,321 |
| 1943 | 6,565,883 | 270,807 | — | 333,151 | 48,304 | 150,492 | — | — | — | — | — | 7,829,769 |
| 1944 | 6,560,297 | 274,306 | — | 244,289 | 30,597 | 83,722 | — | — | — | — | — | 7,066,628 |
| 1945 | 5,753,133 | 241,039 | — | 91,261 | 13,690 | 32,592 | — | — | — | | — | 6,686,321 |
| 1946 | 5,728,254 | 266,191 | 11,100 | 135,326 | 21,001 | 56,997 | — | — | — | 42,144 | — | 5,957,722 |
| 1947 | 5,192,990 | 236,546 | n.a. | 102,300 | 17,759 | 51,004 | — | — | — | | — | 6,308,357 |
| 1948 | 5,788,260 | 264,757 | 16,075 | 135,813 | 12,350 | 37,590 | 6,903 | — | — | Miscel- | — | 6,029,386 |
| 1949 | 5,521,372 | 270,785 | — | 38,081 | 8,064 | 25,226 | — | — | — | laneous | — | 5,999,674 |
| 1950 | 6,225,878 | 273,433 | 37,934 | 130,362 | 23,322 | 77,494 | — | — | 2,738 | 61,919 | 14,606 | 6,847,686 |
| 1951 | 5,919,198 | 232,576 | 11,315 | 120,383 | 20,372 | 60,503 | — | — | — | 108,517 | 6,629 | 6,479,493 |
| 1952 | 6,257,035 | 227,266 | 6,912 | 125,435 | 22,374 | 63,383 | — | — | — | 49,210 | 4,639 | 6,756,254 |
| 1953 | 7,518,242 | 339,163 | 3,239 | 119,214 | 21,702 | 61,250 | — | — | — | 3,949 | 2,254 | 8,069,013 |
| 1954 | 8,200,493 | 372,774 | 4,007 | 51,216 | 9,579 | 23,173 | — | — | — | 18,872 | — | 8,680,114 |
| 1955 | 8,221,027 | 346,980 | — | 110,850 | 18,815 | 56,214 | — | — | 50,640 | 18,685 | — | 8,823,211 |
| 1956 | 8,529,324 | 367,490 | — | 140,848 | 24,621 | 72,794 | — | — | 153,324 | 1,182 | — | 9,289,583 |
| 1957 | 9,160,181 | 406,021 | — | 132,053 | 26,774 | 74,548 | — | — | 168,567 | 958 | — | 9,969,102 |
| 1958 | 8,409,569 | 330,979 | — | 158,244 | 28,186 | 64,723 | — | — | — | 592 | — | 8,992,293 |
| 1959 | 8,042,162 | 299,399 | — | 132,888 | 24,501 | 56,196 | — | — | — | 57 | — | 8,555,203 |
| 1960 | 7,872,574 | 305,363 | — | 135,976 | 24,938 | 58,760 | — | — | — | 278 | — | 8,397,889 |
| 1961 | 6,930,651 | 286,517 | — | 124,794 | 23,093 | 56,659 | — | — | — | 26,243 | — | 7,447,957 |
| 1962 | 9,622,503 | 259,201 | — | 20,951 | 3,195 | 6,370 | — | — | — | 16,959 | — | 9,929,179 |
| 1963 | 11,085,878 | 338,947 | — | — | — | — | — | — | — | 33 | — | 11,424,858 |
| 1964 | 10,407,902 | 310,410 | — | — | — | — | — | — | — | 16,500 | — | 10,734,812 |
| Total | 381,165,889 | 60,107,700 | 10,882,253 | 3,632,700 | 651,879 | 1,253,532 | 1,907,966 | 453,613 | 1,397,350 | 323,954 | 303,655 | 729,799,575 |

[a]Australian Mines and Metals Association figures 1910–1949. [b]Includes small quantities produced from the following localities:—Boorook, Sunny Corner, Rockley, Hillgrove, Costigan and Tuena, Rye Park, Mount Stewart, Moruya, Cordillera, Rivertree, Lewis Ponds, Armidale, Glen Innes and Emmaville Districts, Buddigower, Crake, Bobadah, Cootamundra, Wiseman's Creek, Drake, Cadia. [c]Not stated. [d]Not necessarily in agreement with previous columns.

## SILVER PRODUCTION—TASMANIA

| Year | Read-Rosebery | Mount Farrell | Mount Lyell | Magnet | Zeehan and Dundas | Round Hill and Devon | Tasman and Crown Lyell | Mount Jasper | Miscellaneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz |
| Total to 1918 | — | 2,326,312 | 12,382,685 | 5,357,408 | n.r. | n.r. | n.r. | — | — | n.r. |
| 1919 | — | 49,572 | 228,624 | 98,625 | 73,919 | 51,994 | n.r. | — | — | 525,343 |
| 1920 | — | 140,582 | 169,948 | 99,358 | 159,810 | 53,661 | n.r. | — | — | 623,359 |
| 1921 | — | 34,402 | 183,021 | 32,502 | 87,387 | 11,346 | — | — | — | 348,658 |
| 1922 | — | 201,059 | 119,699 | 335,818 | 123,769 | 14,240 | — | — | — | 794,585 |
| 1923 | — | 187,346 | 122,528 | 165,078 | 132,738 | 26,875 | 940 | 3,097 | — | 638,602 |
| 1924 | 77,215 | 194,702 | 147,376 | 151,084 | 41,464 | 24,169 | 6,073 | 75 | — | 642,158 |
| 1925 | 165,356 | 233,390 | 133,181 | 137,434 | 32,769 | 23,980 | 3,210 | 717 | 157 | 730,194 |
| 1926 | 262,010 | 173,295 | 134,587 | 154,801 | [i]12,353 | 24,238 | n.r. | — | — | 766,653 |
| 1927 | 259,159 | 194,314 | 101,207 | 140,851 | [a]31,939 | 13,022 | 1,290 | — | — | 741,782 |
| 1928 | 231,401 | 176,394 | 105,270 | 133,172 | 23,089 | — | — | — | — | 669,326 |
| 1929 | 209,349 | 290,538 | 149,424 | 199,145 | 15,907 | — | — | — | — | 864,354 |
| 1930 | n.r. | n.r. | 182,978 | n.r. | [a]20,890 | — | — | — | — | 711,619 |
| 1931 | n.r. | 171,569 | 148,782 | 45,720 | n.r. | — | — | — | — | 391,732 |
| 1932 | n.r. | n.r. | 161,634 | n.r. | [a]42,235 | — | — | — | — | 463,488 |
| 1933 | — | 207,954 | 127,562 | 142,753 | [a]11,061 | — | — | — | — | 489,330 |
| 1934 | — | 129,657 | 89,940 | 55,552 | [a]9,538 | — | — | — | — | 284,687 |
| 1935 | — | 144,393 | 132,857 | 42,716 | [a]3,935 | — | — | — | — | 323,901 |
| 1936 | [a]586,655 | 186,618 | 103,189 | 26,080 | 3,728 | — | — | — | 188 | 906,458 |
| 1937 | 794,264 | 170,283 | 83,233 | — | [a]12,073 | 932 | — | — | — | 1,060,785 |
| 1938 | 929,750 | 183,589 | 66,982 | 35,480 | [a]3,749 | — | — | — | — | 1,219,550 |
| 1939 | 937,737 | 249,721 | 70,512 | 19,950 | [a]196 | — | — | — | — | 1,278,116 |
| 1940 | 1,041,953 | 468,081 | 58,659 | 28,606 | 11,382 | — | — | — | — | 1,608,681 |
| 1941 | 940,378 | 335,352 | 43,830 | — | 7,028 | 150 | — | — | — | 1,326,738 |
| 1942 | 946,804 | 207,050 | 36,207 | — | — | — | — | — | — | 1,190,061 |
| 1943 | 879,184 | 193,070 | 44,321 | — | — | — | — | — | — | 1,116,576 |
| 1944 | 846,489 | 143,640 | 38,047 | — | — | — | — | — | — | 1,028,176 |
| 1945 | 655,535 | 136,390 | 24,232 | — | — | — | — | — | — | 816,157 |
| 1946 | 727,649 | 134,450 | 34,194 | — | — | — | — | — | — | 896,293 |
| 1947 | 744,124 | 140,585 | 27,892 | — | 3,625 | — | — | — | — | 918,791 |
| 1948 | 779,367 | 82,320 | 22,763 | 7,840 | 14,926 | — | — | — | — | 907,216 |
| 1949 | 889,588 | 77,300 | 17,451 | — | 26,693 | — | — | — | — | 1,001,032 |
| 1950 | 901,791 | 94,040 | 24,433 | — | 20,368 | 508 | — | — | — | 1,040,840 |
| 1951 | 831,530 | 99,255 | 22,508 | — | 25,534 | 10 | — | — | — | 980,762 |
| 1952 | 955,416 | 135,637 | 31,326 | — | 29,722 | — | — | — | — | 1,152,101 |
| 1953 | 1,009,258 | 145,863 | 28,613 | — | 56,877 | — | — | — | — | 1,240,611 |
| 1954 | 1,111,028 | 98,483 | 32,262 | — | 79,598 | — | — | — | — | 1,321,371 |
| 1955 | 980,112 | 47,143 | 31,394 | — | 107,658 | — | — | — | — | 1,166,307 |

[a]Obtained by difference.

SILVER PRODUCTION—TASMANIA—*continued*

| Year | Read-Rosebery | Mount Farrell | Mount Lyell | Magnet | Zeehan and Dundas | Round Hill and Devon | Tasman and Crown Lyell | Mount Jasper | Miscel-laneous | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz |
| 1956 | 1,149,874 | 43,691 | 29,354 | — | 90,362 | — | — | — | 59,506 | 1,372,787 |
| 1957 | 1,074,508 | 61,197 | 36,644 | — | 98,116 | — | — | — | 28,598 | 1,299,063 |
| 1958 | 1,203,195 | 59,409 | 34,392 | — | 97,816 | — | — | — | — | 1,394,812 |
| 1959 | 1,129,654 | 72,442 | 32,960 | — | 134,013 | — | — | — | — | 1,369,069 |
| 1960 | 1,193,653 | 68,119 | 47,092 | — | 89,518 | — | — | — | — | 1,398,382 |
| 1961 | 1,321,066 | 62,502 | 43,304 | — | — | — | — | — | 9,151 | 1,436,023 |
| 1962 | 1,544,450 | 70,689 | 57,608 | — | — | — | — | — | 27,306 | 1,700,053 |
| 1963 | 1,579,344 | 54,674 | 59,608 | — | — | — | — | — | 9,026 | 1,702,652 |
| 1964 | 1,676,075 | 41,668 | 52,610 | — | — | — | — | — | 9,748 | 1,780,101 |
| Total 1919–64 | 30,564,921 | 6,392,428 | 3,674,238 | 2,052,513 | 1,735,785 | 245,125 | 16,882 | 3,889 | 168,854 | 45,655,599 |
| Total | 30,564,921 | 8,718,740 | 16,056,923 | 7,409,921 | n.r. | n.r. | n.r. | 3,889 | 168,854 | n.r. |

## SILVER PRODUCTION FROM GOLD ORE TREATMENT—WESTERN AUSTRALIA

| Year | Kimberley Goldfield | Pilbara Goldfield | Ashburton Goldfield | Peak Hill Goldfield | East Murchison Goldfield | Murchison Goldfield | Yalgoo Goldfield | Mount Margaret Goldfield | North Coolgardie Goldfield | Brood Arrow Goldfield | East Coolgardie Goldfield | Northeast Coolgardie Goldfield | Coolgardie Goldfield | Yilgarn Goldfield | Dundas Goldfield | Phillips River Goldfield | Total [a] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz |
| 1908 | — | 574 | — | 1,884 | 17,182 | 114,147 | 3 | 37,232 | 19,509 | 519 | 604,107 | 2,501 | 613 | 3,474 | 15,013 | 2,180 | 819,420 |
| 1909 | — | — | [c]162 | 310 | 3,647 | 8,138 | — | 8,756 | 250 | — | 97,450 | 5 | — | 288 | 11,339 | 1,677 | 132,204 |
| 1910 | — | — | — | 95 | 5,011 | 10,048 | — | 12,636 | 398 | — | 80,034 | — | — | 219 | 7,362 | 8,521 | 124,486 |
| 1911 | — | — | — | — | 4,240 | 11,617 | — | 12,221 | 483 | — | 85,709 | 23 | — | 37 | 87 | 2,804 | 118,247 |
| 1912 | — | — | — | — | 2,682 | 9,102 | — | 6,241 | 428 | — | 90,447 | — | — | 109 | — | — | 110,352 |
| 1913 | — | — | — | — | 2,909 | 7,938 | — | 5,169 | 1,668 | 701 | 94,556 | 2 | 24 | 2,494 | 1,146 | — | 118,847 |
| 1914 | — | — | [c]1,637 | — | 1,983 | 4,392 | — | 5,749 | 1,342 | 198 | 92,066 | — | 113 | 4,987 | — | 51 | 114,379 |
| 1915 | — | — | [c]4,744 | — | 362 | 3,520 | 90 | 7,273 | 1,230 | 765 | 105,723 | 3 | 15 | 4,677 | — | 95 | 130,120 |
| 1916 | — | — | [c]1,244 | — | 2,202 | 2,780 | 73 | 8,623 | 1,557 | — | 95,170 | — | 3 | 4,602 | 7 | 360 | 118,677 |
| 1917 | — | — | — | — | 269 | 3,220 | — | 9,227 | 1,277 | — | 106,568 | — | 29 | 1,927 | 1,438 | — | 124,191 |
| 1918 | — | — | — | — | 511 | 720 | — | 8,351 | 1,439 | — | 106,721 | — | 5 | 1,982 | — | — | 118,748 |
| 1919 | — | — | — | — | 1,396 | 84 | — | 9,548 | 164 | — | 78,305 | — | 114 | 3,583 | — | — | 93,142 |
| 1920 | — | — | — | — | 153 | 85 | — | 7,115 | 227 | — | 84,235 | — | — | 3,930 | — | — | 95,745 |
| 1921 | — | — | — | — | 259 | — | — | 1,654 | 205 | — | 85,962 | — | — | 972 | — | — | 89,140 |
| 1922 | — | — | — | — | 48 | 3 | 158 | 1,805 | 682 | — | 87,416 | — | 10 | — | — | — | 98,050 |
| 1923 | — | 40 | — | — | — | — | 165 | 1,926 | — | — | 61,016 | — | — | 8 | — | — | 76,124 |
| 1924 | — | 29 | — | — | — | — | 199 | 3,528 | — | 3 | 62,582 | — | — | — | — | — | 66,341 |
| 1925 | — | — | — | — | — | 4 | — | 3,340 | — | — | 57,125 | — | — | — | — | — | 60,529 |
| 1926 | — | — | — | 1 | 5 | 1 | 333 | 3,405 | — | — | 40,518 | — | — | — | — | — | 44,263 |
| 1927 | — | — | — | — | — | — | — | 2,605 | — | — | 28,625 | — | — | — | — | — | 31,230 |
| 1928 | — | — | — | — | — | — | 170 | 2,183 | — | — | 34,690 | — | — | — | — | — | 37,042 |
| 1929 | — | 40 | — | — | — | — | 58 | 2,317 | — | — | 32,535 | — | — | — | — | — | 34,949 |
| 1930 | — | — | — | — | — | — | — | 2,905 | — | — | 30,935 | — | — | 32 | 553 | — | 34,515 |
| 1931 | — | — | — | — | — | — | — | 3,292 | — | — | 38,890 | — | — | — | 1,029 | — | 43,211 |
| 1932 | — | — | — | — | — | — | — | 3,542 | — | — | 54,221 | — | — | — | 395 | — | 58,166 |
| 1933 | — | — | — | — | — | — | — | 3,466 | — | — | 61,551 | — | — | — | 352 | — | 65,530 |
| 1934 | — | — | — | — | 1 | — | — | 3,465 | 92 | — | 38,101 | — | — | — | 4,106 | — | 45,765 |
| 1935 | — | — | — | — | — | 1,711 | — | 2,926 | 392 | 365 | 35,761 | — | 30 | 71 | 9,230 | — | 50,562 |
| 1936 | — | — | 6 | — | 74 | 2,634 | — | 3,898 | 613 | 959 | 30,832 | — | 9 | 274 | 37,419 | — | 76,803 |
| 1937 | — | — | — | 23 | 944 | 5,981 | 2 | 4,527 | 2,398 | 273 | 70,585 | — | 86 | 777 | 80,771 | 17 | 166,385 |
| 1938 | — | — | 38 | — | 1,112 | 29,687 | — | 4,660 | 1,555 | 225 | 99,435 | — | 489 | 818 | 90,846 | 15 | 228,896 |
| 1939 | 93 | 34 | 127 | — | 2,196 | 22,406 | 37 | 4,566 | 1,434 | 25 | 130,925 | — | 1,070 | 831 | 88,107 | 15 | 252,250 |
| 1940 | — | 42 | 109 | — | 2,273 | 19,676 | 61 | 4,699 | 1,670 | 476 | 150,005 | — | 1,243 | 943 | 74,639 | 64 | 255,931 |
| 1941 | — | 23 | 117 | — | 1,396 | 18,683 | 57 | 4,719 | 1,707 | 754 | 141,656 | 62 | 1,138 | 1,092 | 79,012 | 164 | 250,607 |

[a] From 1908 to 1949 from the Statistical Register of Western Australia; since 1950 from Commonwealth Bureau of Census and Statistics. Production outside proclaimed gold-fields is also included. [b] From silver-lead and copper ores. [c] From silver-lead ores. [d] From copper ore.

SILVER PRODUCTION FROM GOLD ORE TREATMENT—WESTERN AUSTRALIA—*continued*

| Year | Kimberley Gold-field | Pilbara Gold-field | Ashburton Gold-field | Peak Hill Gold-field | East Murchison Gold-field | Murchison Gold-field | Yalgoo Gold-field | Mount Margaret Gold-field | North Coolgardie Gold-field | Brood Arrow Gold-field | East Coolgardie Gold-field | North-east Coolgardie Gold-field | Coolgardie Gold-field | Yilgarn Gold-field | Dundas Gold-field | Phillips River Gold-field | Total [a] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz |
| 1942 | — | — | — | — | 778 | 17,500 | 3 | 2,453 | 1,353 | — | 108,093 | — | 885 | 564 | 64,436 | 27 | 196,090 |
| 1943 | — | — | — | — | 32 | 916 | — | 2,045 | 189 | — | 77,269 | — | 592 | 343 | 44,561 | — | 125,948 |
| 1944 | — | — | — | — | — | 184 | 87 | 1,983 | — | — | 92,441 | 456 | 125 | 291 | 34,595 | 3 | 130,164 |
| 1945 | — | — | — | — | — | 193 | 1 | 1,870 | — | — | 98,289 | — | 7 | 238 | 26,011 | — | 126,599 |
| 1946 | — | — | — | — | 885 | 7,525 | — | 2,385 | 87 | — | 117,508 | — | 37 | 415 | 33,092 | 4 | 161,939 |
| 1947 | 2 | 23 | — | — | 3,660 | 14,252 | 1 | 2,275 | 236 | — | 134,970 | — | 42 | 593 | 29,823 | — | 185,880 |
| 1948 | — | 72 | — | — | 1,901 | 23,102 | 1 | 2,034 | 244 | 7 | 121,007 | — | 2 | 235 | 30,229 | — | 198,834 |
| 1949 | — | 256 | — | — | 752 | 22,184 | — | 2,636 | 279 | 10 | 126,007 | 2 | 1,364 | 108 | 31,817 | 3 | 185,422 |
| 1950 | — | 352 | — | — | 204 | 14,581 | — | 3,298 | 687 | — | 99,955 | — | 2,292 | 117 | 38,412 | 18 | 205,313 |
| 1951 | — | 188 | — | — | — | 19,092 | — | 2,929 | 662 | 5 | 113,178 | — | 5,475 | 21 | 44,019 | 2 | 196,743 |
| 1952 | — | 1,557 | — | 415 | 1 | 22,241 | 1 | 2,235 | 3,862 | 9 | 105,268 | — | 5,814 | 807 | 54,556 | 6 | 209,581 |
| 1953 | — | 837 | — | 624 | 3 | 17,196 | — | 2,326 | 5,398 | 3 | 121,104 | — | 6,630 | 16,770 | 55,870 | 1 | 241,629 |
| 1954 | [c]2,119 | [c]483 | [c]2,785 | 368 | — | 18,537 | — | 2,186 | 4,085 | — | 131,132 | — | 4,332 | 16,435 | 54,487 | — | 237,639 |
| 1955 | — | [c]2,991 | [c]107 | — | — | 4,091 | — | 1,938 | 3,672 | — | 116,116 | — | 4,756 | 18,509 | 48,464 | — | 200,748 |
| 1956 | — | [c]5,713 | [c]388 | — | — | 2,396 | — | 2,274 | 453 | — | 107,159 | — | 125 | 24,065 | 45,765 | [d]33 | 192,589 |
| 1957 | — | 3,354 | [c]758 | — | 652 | 2,204 | — | 2,810 | 534 | 9 | 103,121 | — | 1 | 19,192 | 46,595 | [b]823 | 187,530 |
| 1958 | — | 212 | [c]1,167 | — | [d]474 | 1,887 | *e* | 2,663 | 226 | — | 105,704 | — | — | 19,933 | 53,505 | [d]3,012 | 189,375 |
| 1959 | — | 83 | — | — | — | 5,928 | — | 3,115 | 405 | — | 93,810 | *c* | 62 | 17,429 | 49,055 | [d]8,597 | 179,601 |
| 1960 | — | 41 | — | 27 | — | 7,203 | — | 3,139 | 900 | 18 | 117,602 | — | 307 | 12,059 | 49,116 | [d]4,983 | 196,756 |
| 1961 | — | 254 | — | 6 | 7 | 7,494 | 3 | 3,067 | 463 | 102 | 124,933 | 3 | 1,019 | 10,039 | 55,582 | [d]6,459 | 211,948 |
| 1962 | — | 45 | — | 11 | 16 | 7,296 | 6 | 2,486 | 296 | 3 | 133,464 | 2 | 5,002 | 11,753 | 51,937 | [d]5,749 | 218,366 |
| 1963 | — | 80 | — | 4 | 17 | 6,561 | 6 | 2,899 | 866 | † | 142,065 | † | 6,304 | 2,974 | 52,069 | [d]6,910 | 220,854 |
| 1964 | — | 90 | — | 1 | 41 | 5,730 | — | 94 | 2,859 | 182 | 156,227 | 2 | 3,286 | 315 | 55,732 | [d]5,503 | 241,732 |
| Total | 2,233 | 23,182 | 24,213 | 3,817 | 60,277 | 504,872 | 1,517 | 262,796 | 68,505 | 5,609 | 5,740,879 | 3,059 | 53,463 | 210,332 | 1,552,539 | 58,096 | 8,728,780 |

[a] From 1908 to 1949 from the Statistical Register of Western Australia; since 1950 from Commonwealth Bureau of Census and Statistics. Production outside proclaimed gold-fields is also included. [b] From silver-lead and copper ores. [c] From silver-lead ores. [d] From copper ore.

SILVER PRODUCTION—TERRITORY OF NEW GUINEA
(Estimated)

| Year | Morobe Gold-field | Madang (Mount Hagen) | Sepik | Kieta | New Ireland (Tugi Tugi) | New Britain (Talele) | Total |
|---|---|---|---|---|---|---|---|
| | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz | fine oz |
| Prior to Dec. 1926 | 11,000 | — | — | — | — | — | 11,000 |
| Jan. 1927 to June 1928 | 92,640 | — | — | — | — | — | 92,640 |
| 1928–29 | 34,500 | — | — | — | — | — | 34,500 |
| 1929–30 | 22,800 | — | — | — | — | — | 22,800 |
| 1930–31 | 19,800 | — | — | — | — | — | 19,800 |
| 1931–32 | 36,000 | — | — | — | — | — | 36,000 |
| 1932–33 | 54,150 | — | — | — | — | — | 54,150 |
| 1933–34 | 78,636 | — | — | — | — | — | 78,636 |
| 1934–35 | 86,876 | 9 | 58 | 2·2 | 17·7 | 0·7 | 86,963 |
| 1935–36 | 94,274 | — | 87 | 5·6 | 3·7 | 0·7 | 94,371 |
| 1936–37 | 123,286 | — | 500 | 29·7 | 4·2 | — | 123,820 |
| 1937–38 | 171,188 | 159 | 829 | 24·2 | 0·7 | — | 172,201 |
| 1938–39 | 147,277 | 99 | 645 | 14·8 | 3·7 | — | 148,040 |
| 1939–40 | 194,585 | 143 | 540 | 10·8 | 21·0 | — | 195,300 |
| 1940–41 | 183,818 | 245 | 512 | 1·6 | 7·6 | — | 184,584 |
| July to Nov. 1941 | 57,351 | 22 | 240 | — | — | — | 57,613 |
| 1946–47 | 12,457 | 150 | — | — | — | — | 12,607 |
| 1947–48 | 56,222 | 388 | 34 | — | — | — | 56,644 |
| 1948–49 | 62,117 | 148 | 74 | 8·0 | — | — | 62,347 |
| Total | 1,528,977 | 1,363 | 3,519 | 97 | 59 | 1 | 1,534,016 |

Detail mine production 1950–57 is not available. For total production 1950–57 see following table.

SILVER PRODUCTION IN PAPUA AND NEW GUINEA

| Year ended 30th June | Papua | New Guinea | Total |
|---|---|---|---|
| | fine oz | fine oz | fine oz |
| Prior to 30th June, 1951[a] | 256,675 | 1,662,203 | 1,918,878 |
| 1951–52[b] | 30 | 53,429 | 53,459 |
| 1952–53[b] | 44 | 64,420 | 64,464 |
| 1953–54[b] | 61 | 50,918 | 50,979 |
| 1954–55[b] | 294 | 46,922 | 47,216 |
| 1955–56 | 151 | 41,725 | 41,876 |
| 1956–57 | 79 | 41,354 | 41,433 |
| 1957–58 | 100 | 30,285 | 30,385 |
| 1958–59 | 81 | 28,674 | 28,755 |
| 1959–60 | 23 | 36,164 | 36,187 |
| 1960–61 | 12 | 32,278 | 32,290 |
| 1961–62 | 3 | 28,828 | 28,831 |
| 1962–63 | 10 | 22,985 | 22,995 |
| 1963–64 | 4 | 23,649 | 23,653 |

[a]Report No. 9, Nye and Fisher. The Mineral Deposits and Mining Industry of Papua and New Guinea, 1954. [b]Recorded production from Morobe goldfield to 30th June, 1955 is 1,822,366 fine oz silver. Annual report for Papua; and Annual Report for New Guinea presented to United Nations Assembly.

# SULPHUR

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Pyrite Production—Western Australia .. .. .. .. .. .. 396

PYRITE PRODUCTION—AUSTRALIA
(Incomplete table showing production, so far as recorded)

| Year | Queensland | New South Wales | Tasmania | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1908 | — | — | 2,709 | — | — | 2,709 |
| 1909 | — | — | 2,502 | — | — | 2,502 |
| 1910 | — | — | 11,354 | 2,920 | — | 14,274 |
| 1911 | — | — | 13,340 | 2,496 | 9,939 | 25,775 |
| 1912 | — | — | 14,767 | — | 7,625 | 22,392 |
| 1913 | — | — | 11,255 | — | 10,216 | 21,471 |
| 1914 | — | 2,181 | [a] | — | 9,758 | 11,939 |
| 1915 | — | 3,525 | 12,836 | — | 6,557 | 22,918 |
| 1916 | — | 5,300 | 14,005 | — | 4,409 | 23,714 |
| 1917 | — | 5,170 | 7,686 | — | 3,575 | 16,431 |
| 1918 | — | 7,300 | 5,106 | — | 2,252 | 14,658 |
| 1919 | — | 4,950 | 3,457 | — | 4,136 | 12,543 |
| 1920 | — | 3,000 | 4,440 | — | 6,020 | 13,460 |
| 1921 | — | 2,000 | 607 | — | 6,117 | 8,724 |
| 1922 | — | — | 8,276 | — | 3,441 | 11,717 |
| 1923 | — | — | 11,882 | — | — | 11,882 |
| 1924 | — | 1,993 | — | — | — | 1,993 |
| 1925 | — | 2,402 | — | — | — | 2,402 |
| 1926 | — | 2,411 | — | — | — | 2,411 |
| 1927 | — | 2,873 | — | — | — | 2,873 |
| 1928–30 | — | — | — | — | — | — |
| 1931 | — | — | 507 | — | — | 507 |
| 1932 | — | 3,055 | 274 | — | — | 3,329 |
| 1933 | — | — | 1,498 | — | — | 1,498 |
| 1934 | — | — | 12,030 | — | — | 12,030 |
| 1935 | — | 20 | 25,555 | — | — | 25,575 |
| 1936 | — | 1,622 | 33,711 | — | — | 35,333 |
| 1937 | — | 172 | 40,630 | — | — | 40,802 |
| 1938 | — | — | 50,277 | — | — | 50,277 |

[a]Not stated.

PYRITE PRODUCTION—AUSTRALIA—*continued*
(Incomplete table showing production, so far as recorded)

| Year | Queensland | New South Wales | Tasmania | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1939 | — | 500 | 54,229 | — | — | 54,729 |
| 1940 | — | 11,834 | 37,819 | — | — | 49,653 |
| 1941 | — | 15,917 | 40,076 | — | — | 55,993 |
| 1942 | — | 33,068 | 34,449 | — | 368 | 67,885 |
| 1943 | — | 34,025 | 33,203 | — | 10,189 | 77,417 |
| 1944 | — | 34,779 | 29,136 | — | 23,702 | 87,617 |
| 1945 | — | 20,339 | 40,168 | — | 35,564 | 96,071 |
| 1946 | — | 14,211 | 37,294 | — | 36,127 | 87,632 |
| 1947 | — | 19,725 | 42,329 | — | 44,337 | 106,391 |
| 1948 | 6,355 | 7,650 | 44,263 | — | 37,499 | 95,767 |
| 1949 | 1,525 | 6,794 | 47,922 | — | 31,299 | 87,540 |
| 1950 | 16,180 | 25,855 | 57,198 | — | 35,213 | 134,446 |
| 1951 | 32,450 | 21,725 | 57,223 | 1,031 | 46,615 | 159,044 |
| 1952 | 66,750 | 23,965 | 53,460 | 70 | 53,577 | 197,822 |
| 1953 | 35,480 | 19,114 | 53,165 | — | 59,248 | 167,007 |
| 1954 | 85,750 | 10,736 | 54,142 | — | 56,150 | 206,778 |
| 1955 | 77,400 | 22,850 | 45,010 | 28,730 | 54,774 | 228,764 |
| 1956 | 10,250 | 1,088 | 52,373 | 65,097 | 55,680 | 184,488 |
| 1957 | 25,160 | 14,196 | 63,682 | 68,169 | 57,918 | 229,125 |
| 1958 | 7,890 | 36,730 | 65,800 | 66,935 | 49,389 | 226,744 |
| 1959 | 17,410 | 34,550 | 60,480 | 57,534 | 53,030 | 223,004 |
| 1960 | 18,720 | 32,770 | 67,764 | 66,077 | 53,299 | 238,630 |
| 1961 | 9,375 | 31,138 | 51,020 | 69,493 | 52,397 | 213,423 |
| 1962 | 12,960 | 4,130 | 8,373 | 73,642 | 49,461 | 148,566 |
| 1963 | 33,054 | — | 19,463 | 83,070 | 58,472 | 194,059 |
| 1964 | 26,385 | — | 46,166 | 85,851 | 58,396 | 220,078 |
| Total | 483,094 | 525,663 | 1,484,911 | 671,115 | 1,086,749 | 4,254,812 |

## ZINC CONCENTRATE AND LEAD CONCENTRATE USED FOR ACID MANUFACTURE

| Year | Zinc Concentrate | Lead Concentrate |
|---|---|---|
| 1919–20 | 2,854 | — |
| 1920–21 | 10,844 | — |
| 1921–22 | 14,131 | — |
| 1922–23 | 19,838 | — |
| 1923–24 | 37,153 | — |
| 1924–25 | 70,380 | — |
| 1925–26 | 56,361 | — |
| 1926–27 | 70,576 | — |
| 1927–28 | 86,290 | — |
| 1928–29 | 95,993 | — |
| 1929–30 | 96,550 | — |
| 1930–31 | 89,811 | — |
| 1931–32 | 84,858 | — |
| 1932–33 | 96,026 | — |
| 1933–34 | 103,619 | — |
| 1934–35 | 98,088 | — |
| 1935–36 | 114,039 | — |
| 1936–37 | 116,369 | — |
| 1937–38 | 112,624 | — |
| 1938–39 | 114,128 | — |
| 1939–40 | 116,521 | — |
| 1940–41 | 123,662 | — |
| 1941–42 | 107,434 | — |
| 1942–43 | 93,902 | — |
| 1943–44 | 103,989 | — |
| 1944–45 | 131,109 | — |
| 1945–46 | 125,036 | — |
| 1946–47 | 137,253 | — |
| 1948 | [e]111,600 | — |
| 1949 | [e]152,100 | — |
| 1950 | [e]147,000 | — |
| 1951 | [e]142,600 | — |
| 1952 | [e]138,100 | — |
| 1953 | 140,061 | — |
| 1954 | 136,420 | — |
| 1955 | 114,341 | — |
| 1956 | 116,449 | 244,970 |
| 1957 | 138,537 | 261,246 |
| 1958 | 152,147 | 260,238 |
| 1959 | 156,501 | 258,172 |
| 1960 | 170,626 | 252,668 |
| 1961 | 190,172 | 229,471 |
| 1962 | 231,149 | 287,138 |
| 1963 | 270,212 | 326,939 |
| 1964 | 320,186 | 305,889 |
| Total | 5,257,639 | 2,687,701 |

## SULPHUR (ELEMENTAL)—IMPORTS[a]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1903 | 9,036 | 43,540 | 1933–34 | 67,091 | 365,099 |
| 1904 | 12,637 | 54,955 | | | |
| | | | 1934–35 | 63,756 | 311,618 |
| 1905 | 8,865 | 38,354 | 1935–36 | 106,763 | 529,717 |
| 1906 | 13,485 | 56,102 | 1936–37 | 90,394 | 429,077 |
| 1907 | 13,203 | 57,600 | 1937–38 | 141,797 | 664,049 |
| 1908 | 21,005 | 83,237 | 1938–39 | 115,101 | 559,982 |
| 1909 | 20,270 | 82,598 | | | |
| | | | 1939–40 | 105,345 | 536,811 |
| 1910 | 17,867 | 68,855 | 1940–41 | 77,817 | 418,721 |
| 1911 | 19,338 | 78,647 | 1941–42 | 41,032 | 240,874 |
| 1912 | 23,282 | 97,536 | 1942–43 | 32,433 | 176,425 |
| 1913 | 30,193 | 133,384 | 1943–44 | 28,234 | 154,731 |
| 1914 | n.a. | n.a. | | | |
| | | | 1944–45 | 46,063 | 247,435 |
| 1914–15 | 20,075 | 93,909 | 1945–46 | 81,670 | 476,863 |
| 1915–16 | 41,282 | 197,769 | 1946–47 | 108,618 | 689,159 |
| 1916–17 | 49,589 | 377,850 | 1948 | 144,084 | 812,257 |
| 1917–18 | 39,645 | 279,814 | 1949 | 144,037 | 1,024,673 |
| 1918–19 | 29,603 | 221,739 | | | |
| | | | 1950 | 191,790 | 4,204,736 |
| 1919–20 | 33,901 | 185,143 | 1951 | 99,382 | 1,704,386 |
| 1920–21 | 71,282 | 414,046 | 1952 | 111,404 | 2,115,157 |
| 1921–22 | 48,575 | 203,647 | 1953 | 146,281 | 2,111,736 |
| 1922–23 | 37,828 | 159,220 | 1954 | 187,916 | 2,667,956 |
| 1923–24 | 63,427 | 212,030 | | | |
| | | | 1955 | 195,482 | 2,688,306 |
| 1924–25 | 67,440 | 248,233 | 1956 | 202,977 | 2,619,567 |
| 1925–26 | 81,947 | 289,338 | 1957 | 120,277 | 1,458,683 |
| 1926–27 | 85,566 | 366,269 | 1958 | 202,421 | 2,253,756 |
| 1927–28 | 92,191 | 429,628 | 1959 | 170,770 | 1,854,697 |
| 1928–29 | 80,870 | 372,378 | | | |
| | | | 1960 | 221,778 | 2,284,566 |
| 1929–30 | 113,301 | 502,219 | 1961 | 182,052 | 1,920,129 |
| 1930–31 | 52,163 | 232,534 | 1962 | 229,195 | 2,389,334 |
| 1931–32 | 32,917 | 241,728 | 1963 | 222,527 | 2,151,954 |
| 1932–33 | 93,445 | 633,662 | 1964 | 376,639 | 3,254,143 |

[a]Not available prior to 1903.

## PYRITE PRODUCTION—NEW SOUTH WALES

| Year | Captain's Flat District | Orange District | Parkes District | Miscellaneous | Total |
|---|---|---|---|---|---|
| | | Lewis Ponds | Mount Royal (Tottenham) | | |
| | tons | tons | tons | tons | tons |
| 1914 | — | 2,181 | — | — | 2,181 |
| 1915 | — | 3,525 | — | — | 3,525 |
| 1916 | — | 5,300 | — | — | 5,330 |
| 1917 | — | 5,170 | — | — | 5,170 |
| 1918 | — | 7,300 | — | — | 7,300 |
| 1919 | — | 4,950 | — | — | 4,950 |
| 1920 | — | 2,000 | — | [a]1,000 | 3,000 |
| 1921 | — | — | — | [a]2,000 | 2,000 |
| 1922 | — | — | — | — | — |
| 1923 | — | — | — | — | — |
| 1924 | — | — | 1,993 | — | 1,993 |
| 1925 | — | — | 2,306 | [b]96 | 2,402 |
| 1926 | — | — | 1,900 | [b]511 | 2,411 |
| 1927 | — | — | 2,873 | — | 2,873 |
| 1928–31 | — | — | — | — | — |
| 1932 | — | — | — | [c]3,055 | 3,055 |
| 1933–34 | — | — | — | — | — |
| 1935 | [d]20 | — | — | — | 20 |
| 1936 | — | — | — | [d]1,622 | 1,622 |
| 1937 | — | — | — | [d]172 | 172 |
| 1938 | — | — | — | — | — |
| 1939 | [f]500 | — | — | — | 500 |
| 1940 | 11,834 | — | — | — | 11,834 |
| 1941 | 15,917 | — | — | — | 15,917 |

[a]Caleula. [b]Mainly Tumut. [c]1,340 Leadville, 282 Caleula. [d]Trial parcel. [f]Leadville.

PYRITE PRODUCTION—NEW SOUTH WALES—*continued*

| Year | Captain's Flat District | Orange District | Parkes District | Miscellaneous | Total |
|---|---|---|---|---|---|
| | | Lewis Ponds | Mount Royal (Tottenham) | | |
| | tons | tons | tons | tons | tons |
| 1942 | 33,068 | — | — | — | 33,068 |
| 1943 | 34,025 | — | — | — | 34,025 |
| 1944 | 34,779 | — | — | — | 34,779 |
| 1945 | 20,339 | — | — | — | 20,339 |
| 1946 | 14,211 | — | — | — | 14,211 |
| 1947 | 19,725 | — | — | — | 19,725 |
| 1948 | 7,650 | — | — | — | 7,650 |
| 1949 | 6,794 | — | — | — | 6,794 |
| 1950 | 25,855 | — | — | — | 25,855 |
| 1951 | 21,725 | — | — | — | 21,725 |
| 1952 | 23,965 | — | — | — | 23,965 |
| 1953 | 19,114 | — | — | — | 19,114 |
| 1954 | 10,736 | — | — | — | 10,736 |
| 1955 | 22,850 | — | — | — | 22,850 |
| 1956 | 1,088 | — | — | — | 1,088 |
| 1957 | 14,196 | — | — | — | 14,196 |
| 1958 | 36,730 | — | — | — | 36,730 |
| 1959 | 34,550 | — | — | — | 34,550 |
| 1960 | 32,770 | — | — | — | 15,637 |
| 1961 | 31,138 | — | — | — | 31,138 |
| 1962 | 4,130 | — | — | — | 4,130 |
| 1963–64 | — | — | — | — | — |
| Total | 477,709 | 30,426 | 9,072 | 8,456 | 525,663 |

[a]Caleula. [b]Mainly Tumut. [c]1,340 Leadville, 282 Caleula. [d]Trial parcel. [f]Leadville.

## PYRITE PRODUCTION—TASMANIA

| Year | [a]Chester Mine, etc. | Oonah Mine | Mount Lyell | Miscellaneous | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1908 | — | 2,700 | — | [b]9 | 2,709 |
| 1909 | 1,515 | 987 | — | — | 2,502 |
| 1910 | 8,435 | 2,919 | — | — | 11,354 |
| 1911 | 9,112 | 3,738 | — | [c]490 | 13,340 |
| 1912 | 10,875 | 3,892 | — | — | 14,767 |
| 1913 | 7,027 | 2,778 | — | [d]1,450 | 11,255 |
| 1914 | n.r. | n.r. | n.r. | n.r. | n.r. |
| 1915 | 12,836 | — | — | — | 12,836 |
| 1916 | 14,005 | — | — | — | 14,005 |
| 1917 | 7,686 | — | — | — | 7,686 |
| 1918 | 5,106 | — | — | — | 5,106 |
| 1919 | 3,457 | — | — | — | 3,457 |
| 1920 | 4,440 | — | — | — | 4,440 |
| 1921 | 607 | — | — | — | 607 |
| 1922 | 8,276 | — | — | — | 8,276 |
| 1923 | 11,882 | — | — | — | 11,882 |
| 1924–30 | — | — | — | — | — |
| 1931 | — | — | 507 | — | 507 |
| 1932 | — | — | 274 | — | 274 |
| 1933 | — | — | 1,498 | — | 1,498 |
| 1934 | — | — | 12,030 | — | 12,030 |
| 1935 | — | — | 25,555 | — | 25,555 |
| 1936 | — | — | 33,711 | — | 33,711 |
| 1937 | — | — | 40,630 | — | 40,630 |
| 1938 | — | — | 50,277 | — | 50,277 |
| 1939 | — | — | 54,229 | — | 54,229 |
| 1940 | — | — | 37,819 | — | 37,819 |

[a]From 1915–23 includes production from Chester Mine and from the Kynance, Susanite and Queen Mines at Zeehan. Separate figures not available. [b]Austral Valley Mine. [c]108 Mount Zeehan, 382 South Comstock Mine. [d]1,186 South Comstock, 264 Zeehan Queen.

PYRITE PRODUCTION—TASMANIA—*continued*

| Year | [a]Chester Mine, etc. | Oonah Mine | Mount Lyell | Miscellaneous | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1941 | — | — | 40,076 | — | 40,076 |
| 1942 | — | — | 34,449 | — | 34,449 |
| 1943 | — | — | 33,203 | — | 33,203 |
| 1944 | — | — | 29,136 | — | 29,136 |
| 1945 | — | — | 40,168 | — | 40,168 |
| 1946 | — | — | 37,294 | — | 37,294 |
| 1947 | — | — | 42,329 | — | 42,329 |
| 1948 | — | — | 44,263 | — | 44,263 |
| 1949 | — | — | 47,922 | — | 47,922 |
| 1950 | — | — | 57,198 | — | 57,198 |
| 1951 | — | — | 57,223 | — | 57,223 |
| 1952 | — | — | 53,460 | — | 53,460 |
| 1953 | — | — | 53,165 | — | 53,165 |
| 1954 | — | — | 54,142 | — | 54,142 |
| 1955 | — | — | 45,010 | — | 45,010 |
| 1956 | — | — | 42,373 | — | 52,373 |
| 1957 | — | — | 63,682 | — | 63,682 |
| 1958 | — | — | 65,800 | — | 65,800 |
| 1959 | — | — | 60,480 | — | 60,480 |
| 1960 | — | — | 67,764 | — | 67,764 |
| 1961 | — | — | 51,020 | — | 51,020 |
| 1962 | — | — | 8,373 | — | 8,373 |
| 1963 | — | — | 19,463 | — | 19,463 |
| 1964 | — | — | 46,166 | — | 46,166 |
| Total | 105,259 | 17,014 | 1,360,689 | 1,949 | 1,484,911 |

[a]From 1915–23 includes production from Chester Mine and from the Kynance, Susanite and Queen Mines at Zeehan. Separate figures not available. [b]Austral Valley Mine. [c]108 Mount Zeehan, 382 South Comstock Mine. [d]1,186 South Comstock, 264 Zeehan Queen.

## PYRITE PRODUCTION—WESTERN AUSTRALIA

| Year | Mount Margaret Goldfield | | | | Dundas Goldfield | | | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Eulaminna | | Murrin Murrin | | Norseman | | | | | |
| | Pyritic Ore | Sulphur Content | Pyritic Ore | Sulphur Content | Concentrates | Sulphur Content | Selected Ore | Sulphur Content | Concentrate[c] | Sulphur Content |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1911 | 9,221 | [a]3,010 | 718 | [b]220 | — | — | — | — | 9,939 | 3,229 |
| 1912 | 6,565 | [a]2,143 | 1,060 | [b]325 | — | — | — | — | 7,625 | 2,468 |
| 1913 | 8,510 | [a]2,778 | 1,706 | [b]522 | — | — | — | — | 10,216 | 3,300 |
| 1914 | 8,366 | [a]2,731 | 1,392 | [b]426 | — | — | — | — | 9,758 | 3,157 |
| 1915 | 5,146 | [a]1,680 | 1,411 | [b]432 | — | — | — | — | 6,557 | 2,112 |
| 1916 | 2,247 | 627 | 2,162 | 723 | — | — | — | — | 4,409 | 1,350 |
| 1917 | 2,086 | 592 | 1,489 | 457 | — | — | — | — | 3,575 | 1,049 |
| 1918 | 1,677 | 503 | 575 | 168 | — | — | — | — | 2,252 | 671 |
| 1919 | 3,826 | 1,264 | 310 | 88 | — | — | — | — | 4,136 | 1,352 |
| 1920 | 5,446 | 1,879 | 574 | 156 | — | — | — | — | 6,020 | 2,035 |
| 1921 | 5,571 | 1,920 | 546 | 150 | — | — | — | — | 6,117 | 2,071 |
| 1922 | 3,026 | 1,009 | 415 | 117 | — | — | — | — | 3,441 | 1,126 |
| 1923-41 | — | — | — | — | — | — | — | — | — | — |
| 1942 | — | — | 12,358 | 3,784 | — | — | 368 | 138 | 368 | 138 |
| 1943 | — | — | | | 1,679 | 747 | 8,510 | 3,199 | 10,189 | 3,946 |
| 1944 | — | — | East Coolgardie Goldfield | | 15,619 | 7,398 | 8,083 | 3,081 | 23,702 | 10,479 |
| 1945 | — | — | | | 26,957 | 12,671 | 8,607 | 2,932 | 35,564 | 15,603 |
| 1946 | — | — | | | 29,441 | 12,780 | 6,686 | 2,073 | 36,127 | 14,853 |
| 1947 | — | — | | | 33,783 | 15,587 | 10,554 | 3,422 | 44,337 | 19,009 |
| 1948 | — | — | Concentrates[d] | Sulphur Content | 23,176 | 10,775 | 14,323 | 4,954 | 37,499 | 15,729 |
| 1949 | — | — | | | 18,847 | 8,690 | 12,452 | 4,291 | 31,299 | 12,981 |
| 1950 | — | — | | | 24,417 | 11,266 | 10,796 | 3,764 | 35,213 | 15,030 |
| 1951 | — | — | tons | tons | 34,481 | 15,896 | 12,134 | 3,924 | 46,615 | 19,820 |
| 1952 | — | — | | | 42,250 | 18,950 | 11,327 | 3,815 | 53,577 | 22,765 |
| 1953 | — | — | — | — | 43,773 | 20,230 | 15,475 | 5,341 | 59,248 | 25,571 |
| 1954 | — | — | — | — | 41,902 | 19,435 | 14,248 | 5,023 | 56,150 | 24,458 |
| 1955 | — | — | — | — | 43,631 | 19,914 | 11,143 | 3,978 | 54,774 | 23,892 |
| 1956 | — | — | 7,254 | 2,680 | 35,797 | 17,292 | 12,629 | 4,444 | 55,680 | 24,416 |
| 1957 | — | — | 12,576 | 4,385 | 45,342 | 20,570 | — | — | 57,918 | 24,955 |
| 1958 | — | — | 10,474 | 3,881 | 38,915 | 18,430 | — | — | 49,389 | 22,311 |
| 1959 | — | — | 14,121 | 5,541 | 38,909 | 18,666 | — | — | 53,030 | 24,207 |
| 1960 | — | — | 14,296 | 5,810 | 39,003 | 18,430 | — | — | 53,299 | 24,240 |
| 1961 | — | — | 13,396 | 5,550 | 39,001 | 18,412 | — | — | 52,397 | 23,962 |
| 1962 | — | — | 12,341 | 5,470 | 37,120 | 17,677 | — | — | 49,461 | 23,147 |
| 1963 | — | — | 23,579 | 8,517 | 34,893 | 16,709 | — | — | 58,472 | 25,226 |
| 1964 | — | — | 23,885 | 7,498 | 34,511 | 16,504 | — | — | 58,396 | 24,002 |
| Total | 61,687 | 20,136 | 131,922 | 49,332 | 723,447 | 337,029 | 157,335 | 54,379 | 1,086,749 | 464,660 |

[a]Sulphur content assumed at 32·64 per cent, the average grade of ore treated 1916–22. Later percentages supplied by Cuming Smiths. [b]Sulphur content assumed at 30·61 per cent, the average grade of ore treated 1916–22. Later percentages supplied by Cuming Smiths. [c] Concentrates and Selected Ore. [d] Actual tonnages of auriferous pyrite concentrates for use in acid manufacture.

# TALC AND PYROPHYLLITE

Talc, Steatite and Pyrophyllite Production—Australia .. .. .. 398–399

Talc (including Steatite)—Exports and Imports—Australia .. .. .. 400

Talc, Steatite and Pyrophyllite Production—New South Wales .. 401–402

Talc and Steatite Production—South Australia .. .. .. .. 403–404

Talc and Steatite Production—Western Australia .. .. .. .. 405

## TALC, STEATITE AND PYROPHYLLITE PRODUCTION—AUSTRALIA

| Year | New South Wales | | | Tasmania | Victoria | South Australia | | Western Australia | | Total | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Talc | Steatite | Pyrophyllite | Talc | Talc | Talc | Steatite | Talc | Steatite | Talc | Steatite | Pyrophyllite | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1910 | — | 98 | — | — | — | 40 | 90 | — | — | 40 | 188 | — | 228 |
| 1911 | — | 83 | 1 | — | — | 100 | — | — | — | 100 | 83 | 1 | 184 |
| 1912 | — | 168 | — | — | — | 110 | 120 | — | — | 110 | 288 | — | 398 |
| 1913 | — | 54 | — | — | — | 80 | — | — | — | 80 | 54 | — | 134 |
| 1914 | — | 80 | — | — | — | — | — | — | — | — | 80 | — | 80 |
| 1915 | — | 60 | — | — | — | — | — | — | — | — | 60 | — | 60 |
| 1916 | — | 237 | — | — | 47 | 103 | — | — | — | 150 | 237 | — | 387 |
| 1917 | — | 234 | — | — | — | — | — | — | — | — | 234 | — | 234 |
| 1918 | 50 | 309 | — | — | — | 235 | 75 | — | — | 285 | 384 | — | 669 |
| 1919 | — | 358 | — | — | — | 224 | 40 | — | — | 224 | 398 | — | 622 |
| 1920 | 184 | 27 | — | — | — | 98 | 100 | — | — | 282 | 127 | — | 409 |
| 1921 | 60 | — | — | — | — | 108 | 150 | — | — | 169 | 150 | — | 318 |
| 1922 | — | 200 | — | — | — | 118 | 150 | — | — | 118 | 350 | — | 468 |
| 1923 | — | 204 | — | — | — | 118 | 300 | — | — | 118 | 504 | — | 622 |
| 1924 | — | 534 | — | — | — | 125 | 200 | — | — | 125 | 734 | — | 859 |
| 1925 | 184 | 516 | — | — | — | 152 | 200 | — | — | 336 | 716 | — | 1,052 |
| 1926 | 24 | 336 | — | — | — | 251 | 300 | — | — | 275 | 636 | — | 911 |
| 1927 | 144 | 336 | — | — | — | 319 | 300 | — | — | 463 | 636 | — | 1,099 |
| 1928 | 200 | 464 | — | 32 | — | 131 | 500 | — | — | 363 | 964 | — | 1,327 |
| 1929 | 155 | 394 | — | 23 | — | 349 | 415 | — | — | 527 | 809 | — | 1,336 |
| 1930 | 82 | 194 | — | 13 | — | 392 | 406 | — | — | 487 | 600 | — | 1,087 |
| 1931 | 74 | 153 | — | 15 | — | 597 | 207 | — | — | 686 | 360 | — | 1,046 |
| 1932 | 76 | 212 | — | 5 | — | 636 | 418 | — | — | 717 | 630 | — | 1,347 |
| 1933 | 30 | 362 | — | 9 | — | 541 | 836 | — | — | 580 | 1,198 | — | 1,778 |
| 1934 | 177 | 159 | — | 6 | — | 686 | 711 | — | — | 869 | 870 | — | 1,739 |
| 1935 | 60 | 443 | — | — | — | 492 | 447 | — | — | 552 | 890 | — | 1,442 |
| 1936 | 118 | 394 | — | 3 | — | 537 | 450 | — | — | 658 | 844 | — | 1,502 |
| 1937 | 76 | 442 | — | — | — | 581 | 395 | — | — | 657 | 837 | — | 1,494 |
| 1938 | 64 | 477 | 47 | — | — | 531 | 422 | — | — | 595 | 899 | 47 | 1,541 |
| 1939 | — | 591 | 11 | — | — | 729 | 368 | — | — | 729 | 959 | 11 | 1,699 |

TALC, STEATITE AND PYROPHYLLITE PRODUCTION—AUSTRALIA—*continued*

| Year | New South Wales | | | Tasmania | Victoria | South Australia | | Western Australia | | Total | | | Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Talc | Steatite | Pyrophyllite | Talc | Talc | Talc | Steatite | Talc | Steatite | Talc | Steatite | Pyrophyllite | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 940 | 3 | 45 | 94 | — | — | 937 | 391 | — | — | 940 | 436 | 94 | 1,470 |
| 941 | — | 674 | 461 | — | — | 2,546 | 378 | — | — | 2,546 | 1,052 | 461 | 4,059 |
| 942 | 170 | 697 | 565 | — | — | 2,264 | 272 | 38 | 265 | 2,472 | 1,234 | 565 | 4,271 |
| 943 | 245 | 637 | 1,086 | — | — | 3,129 | 154 | 73 | — | 3,447 | 791 | 1,086 | 5,324 |
| 944 | 75 | 587 | 1,182 | 4 | — | 3,511 | 357 | — | 262 | 3,390 | 1,206 | 1,182 | 5,978 |
| 945 | 164 | 495 | 989 | 153 | — | 2,806 | 183 | — | — | 3,123 | 678 | 989 | 4,790 |
| 946 | — | 680 | 959 | 49 | — | 3,538 | 130 | 389 | — | 3,976 | 810 | 959 | 5,745 |
| 947 | 20 | 487 | 655 | — | — | 4,156 | 304 | 213 | — | 4,389 | 791 | 655 | 5,835 |
| 948 | 1,200 | 510 | 411 | 22 | 12 | 3,689 | 185 | 72 | — | 4,995 | 695 | 411 | 6,101 |
| 949 | 1,667 | 435 | 431 | — | 70 | 6,153 | 245 | 181 | — | 8,071 | 680 | 431 | 9,182 |
| 950 | 1,364 | 375 | 648 | — | — | 6,939 | 113 | 256 | — | 8,559 | 488 | 648 | 9,595 |
| 951 | 1,948 | 483 | 552 | — | — | 9,186 | 290 | 651 | 38 | 11,785 | 811 | 552 | 13,148 |
| 952 | 641 | 346 | 285 | — | — | 4,850 | 259 | 1,224 | — | 6,715 | 605 | 285 | 7,605 |
| 953 | 796 | 100 | 129 | — | — | 6,394 | 258 | 2,228 | — | 9,418 | 358 | 129 | 9,905 |
| 954 | 932 | — | 184 | — | — | 8,805 | 283 | 2,920 | — | 12,657 | 283 | 184 | 13,124 |
| 955 | 817 | — | 266 | — | — | 9,013 | 150 | 2,587 | — | 12,417 | 150 | 266 | 12,833 |
| 956 | 693 | — | 339 | — | — | 7,663 | 243 | 4,456 | — | 12,792 | 243 | 339 | 13,376 |
| 957 | 1,020 | — | 358 | — | — | 9,543 | 143 | 3,654 | — | 14,217 | 143 | 358 | 14,718 |
| 958 | 998 | — | 267 | — | — | 11,766 | — | 2,501 | — | 15,265 | — | 267 | 15,532 |
| 959 | 1,016 | 73 | 347 | — | — | 11,077 | 87 | 4,048 | — | 16,141 | 140 | 347 | 16,648 |
| 960 | 866 | 270 | 501 | — | — | 8,842 | 97 | 5,470 | — | 15,178 | 367 | 501 | 16,046 |
| 961 | 825 | — | 1,288 | — | — | 7,389 | 85 | 5,149 | — | 13,363 | 85 | 1,288 | 14,736 |
| 962 | 405 | 315 | 1,282 | — | — | 7,750 | 86 | 4,981 | — | 13,136 | 401 | 1,282 | 14,819 |
| 963 | 849 | 15 | 1,157 | — | — | 6,988 | 67 | 4,669 | — | 12,506 | 82 | 1,157 | 13,745 |
| 964 | 1,208 | 158 | 712 | — | — | 8,398 | — | 5,431 | — | 15,037 | 158 | 712 | 15,907 |
| Total | 19,660 | 15,501 | 15,207 | 334 | 129 | 165,715 | 12,360 | 51,191 | 565 | 237,029 | 28,426 | 15,207 | 280,662 |

## TALC (INCLUDING STEATITE)—EXPORTS AND IMPORTS—AUSTRALIA

| EXPORTS[a] | | | IMPORTS[b] | | |
|---|---|---|---|---|---|
| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
| 1954 | 2,110 | n.a. | 1955–56 | 233 | 6,850 |
| | | | 1956–57 | 220 | 5,393 |
| 1955 | 2,230 | 38,187 | 1957–58 | 263 | 12,395 |
| 1956 | 3,320 | 55,468 | 1959 | 264 | 6,305 |
| 1957 | 2,326 | 42,644 | | | |
| 1958 | 3,256 | 55,506 | 1960 | 496 | 12,233 |
| 1959 | 2,620 | 44,920 | 1961 | 1,465 | 22,309 |
| | | | 1962 | 2,122 | 35,925 |
| 1960 | 3,905 | 64,598 | 1963 | 2,550 | 40,488 |
| 1961 | 4,191 | 74,636 | 1964 | 2,314 | 37,519 |
| 1962 | 4,988 | 81,960 | | | |
| 1963 | 4,025 | 70,813 | | | |
| 1964 | 5,181 | 88,676 | | | |

[a] Not recorded as separate item prior to 1st July, 1953. [b] Not recorded as separate item prior to 1st July, 1955.

## TALC, STEATITE AND PYROPHYLLITE PRODUCTION—NEW SOUTH WALES

| Year | Cootamundra District | | Rockley District | Gundagai District | Miscellaneous | Cobargo District | Pambula District | Mudgee District | Total |
|---|---|---|---|---|---|---|---|---|---|
| | Wallendbeen (Steatite) | Jindalee (Steatite) | Cow Flat (Talc) | South Gundagai (Talc) | (Talc) | Cobargo (Pyrophyllite) | Greig's Flat (Pyrophyllite) | Mudgee (Pyrophyllite) | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1910 | 98 | — | — | — | — | — | — | — | 98 |
| 1911 | 83 | — | — | — | — | — | — | [a]1 | 84 |
| 1912 | 168 | — | — | — | — | — | — | — | 168 |
| 1913 | 54 | — | — | — | — | — | — | — | 54 |
| 1914 | 80 | — | — | — | — | — | — | — | 80 |
| 1915 | 60 | — | — | — | — | — | — | — | 60 |
| 1916 | 237 | — | — | — | — | — | — | — | 237 |
| 1917 | 234 | — | — | — | — | — | — | — | 234 |
| 1918 | 309 | — | 50 | — | — | — | — | — | 359 |
| 1919 | 358 | — | — | — | — | — | — | — | 358 |
| 1920 | 27 | — | 184 | — | — | — | — | — | 211 |
| 1921 | — | — | 60 | — | — | — | — | — | 60 |
| 1922 | 200 | — | — | — | — | — | — | — | 200 |
| 1923 | 204 | — | — | — | — | — | — | — | 204 |
| 1924 | 534 | — | — | — | — | — | — | — | 534 |
| 1925 | 516 | — | 184 | — | — | — | — | — | 700 |
| 1926 | 336 | — | 24 | — | — | — | — | — | 360 |
| 1927 | 336 | — | 144 | — | — | — | — | — | 480 |
| 1928 | 464 | — | 200 | — | — | — | — | — | 664 |
| 1929 | 394 | — | 52 | — | [c]103 | — | — | — | 549 |
| 1930 | 194 | — | [b] | — | [b][d] | — | — | — | 276 |
| 1931 | 153 | — | [b] | — | [b][d] | — | — | — | 227 |
| 1932 | 212 | — | 76 | — | — | — | — | — | 288 |
| 1933 | 362 | — | 30 | — | — | — | — | — | 392 |
| 1934 | 159 | — | 177 | — | — | — | — | — | 336 |
| 1935 | 443 | — | 60 | — | — | — | — | — | 503 |
| 1936 | 394 | — | 105 | 13 | — | — | — | — | 512 |
| 1937 | 442 | — | 76 | — | — | — | — | — | 518 |
| 1938 | 477 | — | 64 | — | — | 20 | — | 27 | 588 |
| 1939 | 591 | — | — | — | — | 11 | — | — | 602 |

[a] Trial parcel. [b] Not stated. [c] 100 tons Cootamundra District, 3 tons Trunkey (recorded as mica). [d] Trunkey. [f] Port Macquarie Mining Division. [g] From Bathurst Mining Division. [h] 300 tons from Bathurst Division and 465 tons from Young Division. [j] Chlorite. [k] Not all accounted for in previous columns. [l] Talc.

TALC, STEATITE AND PYROPHYLLITE PRODUCTION—NEW SOUTH WALES—*continued*

| Year | Cootamundra District | | Rockley District | Gundagai District | Miscellaneous | Cobargo District | Pambula District | Mudgee District | Total |
|---|---|---|---|---|---|---|---|---|---|
| | Wallendbeen (Steatite) | Jindalee (Steatite) | Cow Flat (Talc) | South Gundagai (Talc) | (Talc) | Cobargo (Pyrophyllite) | Greig's Flat (Pyrophyllite) | Mudgee (Pyrophyllite) | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1940 | 45 | — | — | — | [d]3 | 94 | — | — | 142 |
| 1941 | 674 | — | — | — | — | 61 | 262 | 138 | 1,135 |
| 1942 | 692 | 5 | — | 170 | — | 193 | 95 | 277 | 1,432 |
| 1943 | 617 | 20 | 45 | 200 | — | 353 | — | 733 | 1,968 |
| 1944 | 572 | 15 | — | 75 | — | 286 | 144 | 752 | 1,844 |
| 1945 | 490 | 5 | 59 | 105 | — | 45 | 214 | 730 | 1,648 |
| 1946 | 680 | — | — | — | — | 57 | 143 | 759 | 1,639 |
| 1947 | 487 | — | — | — | [d]20 | 3 | 99 | 553 | 1,162 |
| 1948 | 510 | — | — | — | — | 278 | 133 | [l]1,200 | 2,121 |
| 1949 | 435 | — | 848 | — | — | 431 | [l]119 | [l]700 | 2,533 |
| 1950 | 375 | — | 661 | — | — | 648 | — | [l]703 | 2,387 |
| 1951 | 483 | — | 976 | 76 | [d]45 | 490 | 62 | [l]851 | 2,983 |
| 1952 | 346 | — | — | 88 | — | 180 | 105 | [l]553 | 1,272 |
| 1953 | 100 | — | — | 163 | — | 128 | 1 | [l]663 | 1,025 |
| 1954 | — | — | — | 377 | — | 184 | — | [l]555 | 1,116 |
| 1955 | — | — | — | 245 | — | 254 | 12 | [l]572 | 1,083 |
| 1956 | — | — | — | 508 | — | 339 | — | [l]165 | 1,012 |
| 1957 | [a]38 | — | — | 270 | — | 358 | — | [l]712 | 1,378 |
| 1958 | — | — | 62 | 315 | — | 267 | — | [l]621 | 1,265 |
| 1959 | 73 | — | 183 | 120 | [f]56 | 347 | — | [l]657 | 1,436 |
| 1960 | 270 | — | — | 95 | [g]318 | 366 | 135 | [l]453 | 1,637 |
| 1961 | — | — | — | 60 | [h]765 | [j]373 | 628 | 287 | 2,113 |
| 1962 | 315 | — | — | 60 | [m]345 | 351 | 594 | 337 | 2,002 |
| 1963 | 15 | — | — | 35 | [n]814 | 320 | 644 | 193 | 2,021 |
| 1964 | 158 | — | 119 | 48 | [p]1,014 | 331 | 381 | — | 2,078 |
| Total | 15,494 | 45 | 4,439 | 3,023 | 3,510 | 6,768 | 3,771 | 13,162 | 50,368 |

[f] Port Macquarie Mining Division. [g] From Bathurst Mining Division. [h] 300 tons from Bathurst Division and 465 tons from Young Division. [j] Chlorite. [k] Not all accounted for in previous columns. [l] Talc. [m] From Bathurst. [n] 435 tons Bathurst Mining Division; 379 tons Young Mining Division. [p] 525 tons Bathurst, 280 tons Mudgee and 236 tons Young Mining Divisions.

## TALC AND STEATITE PRODUCTION—SOUTH AUSTRALIA

| Year | Gumeracha, Hundred Talunga | | Tumby Bay Hundred Yaran-yacka | Lobethal Hundred Onka-paringa | Mount Fitton | Total | |
|---|---|---|---|---|---|---|---|
| | Talc | Steatite | Talc | Steatite | Talc | Talc | Steatite |
| | tons | tons | tons | tons | tons | tons | tons |
| 1910 | — | 90 | 40 | — | — | 40 | 90 |
| 1911 | — | — | 100 | — | — | 100 | — |
| 1912 | — | 120 | 110 | — | — | 110 | 120 |
| 1913 | — | — | 80 | — | — | 80 | — |
| 1914–15 | — | — | — | — | — | — | — |
| 1916 | — | — | 103 | — | — | 103 | — |
| 1917 | — | — | — | — | — | — | — |
| 1918 | — | 75 | 235 | — | — | 235 | 75 |
| 1919 | — | 40 | 224 | — | — | 224 | 40 |
| 1920 | — | 100 | 98 | — | — | 98 | 100 |
| 1921 | — | 150 | 108 | — | — | 108 | 150 |
| 1922 | — | 150 | 118 | — | — | 118 | 150 |
| 1923 | — | 300 | 118 | — | — | 118 | 300 |
| 1924 | — | 200 | 125 | — | — | 125 | 200 |
| 1925 | — | 200 | 152 | — | — | 152 | 200 |
| 1926 | — | 300 | 251 | — | — | 251 | 300 |
| 1927 | — | 300 | 319 | — | — | 319 | 300 |
| 1928 | — | 500 | 131 | — | — | 131 | 500 |
| 1929 | 120 | 400 | 229 | — | — | 349 | [a]415 |
| 1930 | 237 | 406 | 155 | — | — | 392 | 406 |
| 1931 | 454 | 207 | 143 | — | — | 597 | 207 |
| 1932 | 463 | 311 | 173 | 107 | — | 636 | 418 |
| 1933 | 382 | 112 | 150 | 724 | — | 541 | 836 |
| 1934 | 488 | 220 | 198 | 491 | — | 686 | 711 |
| 1935 | 333 | 231 | 159 | 216 | — | 492 | 447 |
| 1936 | 392 | 310 | 145 | 140 | — | 537 | 450 |
| 1937 | 393 | 390 | 188 | 5 | — | 581 | 395 |
| 1938 | 356 | 251 | 175 | 171 | — | 531 | 422 |
| 1939 | 550 | 262 | 179 | 106 | — | 729 | 368 |

[a] Including 15 tons Steatite from Hundred of Minbrie. [b] Including 56 tons Steatite from Hundred of Barossa. [c] Including 4 tons talc from Hundred of Para Wirra. [d] Including 4 tons talc from Hundred of Para Wirra. [f] Including 112 tons of talc from Hundred of Barossa. [g] Including 194 tons of talc from Hundred of Barossa. [h] Including 47 tons of talc from Hundred of Barossa. [j] Including 127 tons of talc from Hundred of Jellicoe.

TALC AND STEATITE PRODUCTION—SOUTH AUSTRALIA—*continued*

| Year | Gumeracha, Hundred Talunga | | Tumby Bay Hundred Yaran-yacka | Lobethal Hundred Onka-paringa | Mount Fitton | Total | |
|---|---|---|---|---|---|---|---|
| | Talc | Steatite | Talc | Steatite | Talc | Talc | Steatite |
| | tons | tons | tons | tons | tons | tons | tons |
| 1940 | 740 | 301 | 197 | 90 | — | 937 | 391 |
| 1941 | 2,076 | 158 | 470 | 120 | — | 2,546 | 378 |
| 1942 | 1,785 | 164 | 479 | 108 | — | 2,264 | 272 |
| 1943 | 2,447 | 27 | 682 | 127 | — | 3,129 | 154 |
| 1944 | 3,016 | 46 | 495 | 255 | — | 3,511 | [b]357 |
| 1945 | 2,365 | 19 | 414 | 164 | 27 | 2,806 | 183 |
| 1946 | 2,565 | 30 | 608 | 100 | 361 | [c]3,538 | 130 |
| 1947 | 2,567 | — | 618 | 304 | 967 | [d]4,156 | 304 |
| 1948 | 2,229 | 66 | 520 | 119 | 940 | 3,689 | 185 |
| 1949 | 3,398 | 177 | 682 | 68 | 2,073 | 6,153 | 245 |
| 1950 | 3,956 | 113 | 495 | — | 2,376 | [f]6,939 | 113 |
| 1951 | 5,669 | 190 | 489 | 100 | 2,834 | [g]9,186 | 290 |
| 1952 | 2,143 | 98 | 331 | 161 | 2,329 | [k]4,850 | 259 |
| 1953 | 3,425 | 177 | 383 | 81 | 2,586 | 6,394 | 258 |
| 1954 | 4,441 | 198 | 358 | 85 | 4,006 | 8,805 | 283 |
| 1955 | 4,391 | 65 | 343 | 85 | 4,279 | 9,013 | 150 |
| 1956 | 3,324 | — | 193 | 243 | 4,146 | 7,663 | 243 |
| 1957 | 5,043 | — | — | 143 | 4,500 | 9,543 | 143 |
| 1958 | 6,634 | — | — | — | 5,132 | 11,766 | — |
| 1959 | 4,247 | — | — | 87 | 6,830 | 11,077 | 87 |
| 1960 | 3,281 | — | — | 97 | 5,561 | 8,842 | 97 |
| 1961 | 3,138 | — | — | 85 | 4,124 | [j]7,389 | 85 |
| 1962 | 3,337 | — | — | 86 | 4,381 | [k]7,750 | 86 |
| 1963 | 3,315 | — | — | 67 | 3,546 | [l]6,988 | 67 |
| 1964 | 2,885 | — | — | — | 5,308 | [m]8,398 | — |
| Total | 86,585 | 7,554 | 11,972 | 4,735 | 66,306 | 165,715 | 12,360 |

[a] Including 15 tons Steatite from Hundred of Minbrie. [b] Including 56 tons Steatite from Hundred of Barossa. [c] Including 4 tons talc from Hundred of Para Wirra. [d] Including 4 tons talc from Hundred of Para Wirra. [f] Including 112 tons of talc from Hundred of Barossa. [g] Including 194 tons of talc from Hundred of Barossa. [h] Including 47 tons of talc from Hundred of Barossa. [j] Including 127 tons of talc from Hundred of Jellicoe. [k] Including 32 tons of talc from Hundred of Jellicoe. [l] Including 127 tons of talc from Hundred of Jellicoe. [m] Including 179 tons of talc from Hundred of Jellicoe; 26 tons of talc from Hundred of Barossa.

## TALC AND STEATITE PRODUCTION—WESTERN AUSTRALIA

| Year | Greenbushes Mineral Field, Bridgetown (Steatite) | East Coolgardie Gold-field Mount Monger (Talc) | Three-Springs South West (Talc) | Miscellaneous | Total |
|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons |
| 1942 | 255 | 38 | — | [a]10 | 303 |
| 1943 | — | 73 | — | — | 73 |
| 1944 | 262 | — | — | — | [c]262 |
| 1945 | — | — | — | — | — |
| 1946 | — | 389 | — | — | 389 |
| 1947 | — | 213 | — | — | 213 |
| 1948 | — | 72 | — | — | 72 |
| 1949 | — | — | 181 | — | 181 |
| 1950 | — | 56 | 200 | — | 256 |
| 1951 | 38 | 55 | 596 | — | 689 |
| 1952 | — | 68 | 886 | [b]270 | 1,224 |
| 1953 | — | 109 | 2,119 | — | 2,228 |
| 1954 | — | 37 | 2,883 | — | 2,920 |
| 1955 | — | 27 | 2,560 | — | 2,587 |
| 1956 | — | 77 | 4,379 | — | 4,456 |
| 1957 | — | 176 | 3,478 | — | 3,654 |
| 1958 | — | — | 2,501 | — | 2,501 |
| 1959 | — | — | 4,048 | — | 4,048 |
| 1960 | — | — | 5,470 | — | 5,470 |
| 1961 | — | — | 5,149 | — | 5,149 |
| 1962 | — | — | 4,981 | — | 4,981 |
| 1963 | — | — | 4,669 | — | 4,669 |
| 1964 | — | — | 5,431 | — | 5,431 |
| Total | 555 | 1,390 | 49,531 | 280 | 51,756 |

[a] 10 tons of steatite from Balingup. [b] 261 tons late reported for period 1946–1951 inclusive. [c] In addition, Matheson in an unpublished report states that 27 tons were sold in 1944 from a deposit at Coodawa.

Page 406 is blank.

# TANTALUM AND COLUMBIUM

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Tantalite–Columbite Concentrates—Exports—Australia .. .. .. 409

Tantalite–Columbite Production—Western Australia .. .. .. 410–411

Tantalite–Columbite Production—Northern Territory .. .. .. .. 412

## TANTALITE–COLUMBITE PRODUCTION—AUSTRALIA
(65 per cent $Ta_2O_5+Nb_2O_5$ concentrates)

| Year[a] | Queensland | Western Australia | Northern Territory | Total | Year[a] | Queensland | Western Australia | Northern Territory | Total |
|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | | tons | tons | tons | tons |
| 1905 | — | 73·29 | — | 73·29 | 1941 | — | — | — | — |
| 1906 | — | 14·65 | 2·10 | 16·75 | 1942 | — | 0·85 | — | 0·85 |
| 1907 | — | — | — | — | 1943 | — | 11·60 | 0·64 | 12·24 |
| 1908 | — | — | — | — | 1944 | [b]0·06 | 10·20 | 0·54 | 10·80 |
| 1909 | — | 1·30 | — | 1·30 | | | | | |
| | | | | | 1945 | — | [c] | 0·47 | [i]0·47 |
| 1910–16 | — | — | — | — | 1946 | — | 0·36 | — | 0·36 |
| | | | | | 1947 | — | — | 0·05 | 0·05 |
| 1917 | — | 12·50 | — | 12·50 | 1948 | — | 2·60 | 0·98 | 3·58 |
| | | | | | 1949 | — | 1·17 | 0·37 | 1·54 |
| 1918–24 | — | — | — | — | | | | | |
| | | | | | 1950 | — | 6·13 | 0·63 | 6·76 |
| 1925 | — | 6·25 | — | 6·25 | 1951 | — | 2·40 | 0·28 | 2·68 |
| 1926 | — | 19·45 | — | 19·45 | 1952 | — | 7·50 | — | 7·50 |
| 1927 | — | 15·28 | 0·07 | 15·35 | 1953 | — | 9·14 | — | 9·14 |
| 1928 | — | 8·76 | 0·33 | 9·09 | 1954 | — | 40·93 | 0·52 | 41·45 |
| 1929 | — | 11·57 | 0·97 | 12·54 | | | | | |
| | | | | | 1955 | — | 10·61 | — | 10·61 |
| 1930 | — | — | 2·70 | 2·70 | 1956 | — | 58·85 | — | 58·85 |
| 1931 | — | — | 1·42 | 1·42 | 1957 | — | 16·15 | — | 16·15 |
| 1932 | — | 9·01 | 0·76 | 9·77 | 1958 | — | 4·63 | — | 4·63 |
| 1933 | — | 5·73 | — | 5·75 | 1959 | — | 5·83 | — | 5·83 |
| 1934 | — | 0·50 | 0·38 | 0·88 | | | | | |
| | | | | | 1960 | — | 7·89 | — | 7·89 |
| 1935 | — | 14·10 | 1·07 | 15·17 | 1961 | — | 9·49 | — | 9·49 |
| 1936 | — | 14·98 | — | 14·98 | 1962 | — | 12·97 | — | 12·97 |
| 1937 | — | 18·00 | — | 18·00 | 1963 | — | 8·88 | — | 8·88 |
| 1938 | — | 19·80 | 0·28 | 20·08 | 1964 | — | 8·34 | — | 8·34 |
| 1939 | — | 8·28 | — | 8·28 | | | | | |
| 1940 | — | 6·32 | — | 6·32 | Total | 0·06 | 496·29 | 14·56 | 510·91 |

[a] Year ending 30th June for Northern Territory, 1906–1938.
[b] 182 lb. 46·7 per cent grade, from Etheridge gold-field.
[c] Tantalite content not stated.

## TANTALITE-COLUMBITE CONCENTRATES—EXPORTS[a]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1937–38 | 17·75 | 17,304 | 1952 | 2·45 | 3,407 |
| 1938–39 | 16·00 | 21,226 | 1953 | [c]58·50 | 65,542 |
| 1939–40 | 14·20 | 18,886 | 1954 | 38·65 | 53,536 |
| 1940–41 | — | — | 1955 | 58·35 | 125,924 |
| 1941–42 | [b]13·20 | 2,460 | 1956 | 48·30 | 82,443 |
| 1942–43 | — | — | 1957 | 6·40 | 8,999 |
| 1943–44 | 1·55 | 3,237 | 1958 | 7·50 | 14,975 |
| 1944–45 | 11·75 | 17,430 | 1959 | 8·00 | 13,985 |
| 1946 | 0·50 | 332 | 1960 | 16·00 | 21,100 |
| 1947 | 3·80 | 1,598 | 1961 | 12·00 | 35,893 |
| 1948 | 4·05 | 983 | 1962 | 37·00 | 41,354 |
| 1949 | 1·40 | 369 | 1963 | 19·00 | 32,295 |
| 1950 | 5·90 | 2,687 | 1964 | 35·00 | 27,760 |
| 1951 | 3·90 | 4,028 | | | |

[a] Not recorded separately prior to 1st July, 1937. [b] According to value it is considered that most of this quantity is very low grade. [c] Contains 20 tons low grade valued at £812.

# TANTALUM AND COLUMBIUM

## TANTALITE–COLUMBITE PRODUCTION—WESTERN AUSTRALIA
(65 per cent $Ta_2O_5 + Nb_2O_5$ concentrates)

| Year | Pilbara Gold-field | | | | | | | Greenbushes | Miscellaneous | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Wodgina | | | Strelley | Tabba-Tabba | Pilgangoora | Miscellaneous | | | Lode | Alluvial | Total |
| | Lode | Alluvial | Total | Alluvial | Lode | Lode | Alluvial | | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1905 | — | 70·95 | 70·95 | — | — | — | — | 2·34 | — | — | 73·29 | 73·29 |
| 1906 | 1·80 | 12·85 | 14·65 | — | — | — | — | — | — | 1·80 | 12·85 | 14·65 |
| 1907–8 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1909 | 0·45 | — | 0·45 | — | — | — | — | 0·85 | — | 0·45 | 0·85 | 1·30 |
| 1910–16 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1917 | — | 12·50 | 12·50 | — | — | — | — | — | — | — | 12·50 | 12·50 |
| 1918–24 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1925 | — | 6·25 | 6·25 | — | — | — | — | — | — | — | 6·25 | 6·25 |
| 1926 | — | 19·45 | 19·45 | — | — | — | — | — | — | — | 19·45 | 19·45 |
| 1927 | — | 15·28 | 15·28 | — | — | — | — | — | — | — | 15·28 | 15·28 |
| 1928 | — | 7·19 | 7·19 | 0·57 | 1·00 | — | — | — | — | 1·00 | 7·76 | 8·76 |
| 1929 | — | 11·27 | 11·27 | — | — | — | — | 0·30 | — | — | 11·57 | 11·57 |
| 1930–31 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1932 | 6·47 | 1·88 | 8·35 | 0·21 | — | — | — | 0·45 | — | 6·47 | 2·54 | 9·01 |
| 1933 | 0·89 | 4·10 | 4·99 | 0·35 | 0·39 | — | — | — | — | 1·28 | 4·45 | 5·73 |
| 1934 | 0·50 | — | 0·50 | — | — | — | — | — | — | 0·50 | — | 0·50 |
| 1935 | 11·33 | 0·92 | 12·25 | 0·08 | 1·77 | — | — | — | — | 13·10 | 1·00 | 14·10 |
| 1936 | 8·83 | — | 8·83 | 2·04 | 4·11 | — | — | — | — | 12·94 | 2·04 | 14·98 |
| 1937 | 6·92 | 2·88 | 9·80 | 2·51 | 5·69 | — | — | — | — | 12·61 | 5·39 | 18·00 |
| 1938 | 10·86 | 2·64 | 13·50 | 5·77 | 0·53 | — | — | — | — | 11·39 | 8·41 | 19·80 |
| 1939 | — | — | — | 8·28 | — | — | — | — | — | — | 8·28 | 8·28 |
| 1940 | — | — | — | 3·82 | — | — | — | — | [a]2·50 | 2·50 | 3·82 | 6·32 |
| 1941 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1942 | — | — | — | — | — | 0·68 | — | 0·17 | — | 0·68 | 0·17 | 0·85 |

[a]Coolgardie.

TANTALITE–COLUMBITE PRODUCTION—WESTERN AUSTRALIA—*continued*
(65 per cent $Ta_2O_5 + Nb_2O_5$ concentrates)

| Year | Pilbara Gold-field | | | | | | | Greenbushes | Miscellaneous | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Wodgina | | | Strelley | Tabba-Tabba | Pilgangoora | Miscellaneous | | | Lode | Alluvial | Total |
| | Lode | Alluvial | Total | Alluvial | Lode | Lode | Alluvial | | | | | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1943 | — | — | — | 0·86 | — | — | 0·01 | 10·73 | — | — | 11·60 | 11·60 |
| 1944 | 5·80 | — | 5·80 | 4·40 | — | — | — | — | — | 5·80 | 4·40 | 10·20 |
| 1945 | — | — | — | — | — | — | — | [b] | — | — | [b] | [b] |
| 1946 | 0·36 | — | 0·36 | — | — | — | — | — | — | 0·36 | — | 0·36 |
| 1947 | — | — | — | — | — | — | — | — | — | — | — | — |
| 1948 | — | — | — | — | — | — | [c]0·32 | 2·28 | — | — | 2·60 | 2·60 |
| 1949 | — | — | — | — | — | — | — | 1·17 | — | — | 1·17 | 1·17 |
| 1950 | — | — | — | — | — | — | 2·20 | 3·93 | — | — | 6·13 | 6·13 |
| 1951 | — | — | — | — | — | — | — | 2·40 | — | — | 2·40 | 2·40 |
| 1952 | — | — | — | — | — | — | 1·52 | 3·70 | [h]2·28 | 2·28 | 5·22 | 7·50 |
| 1953 | — | 1·48 | 1·48 | — | — | — | [d]1·86 | 3·32 | [j]2·48 | 2·48 | 6·66 | 9·14 |
| 1954 | — | — | — | — | — | — | 36·66 | 3·63 | [h]0·64 | 0·64 | 40·29 | 40·93 |
| 1955 | — | 3·21 | 3·21 | — | 0·28 | 2·85 | 2·65 | 1·21 | [k]0·41 | 3·54 | 7·07 | 10·61 |
| 1956 | — | 5·14 | 5·14 | — | — | 26·20 | 2·04 | 23·37 | [l]2·10 | 28·30 | 30·55 | 58·85 |
| 1957 | — | 0·27 | 0·27 | — | 0·17 | 0·74 | [d]3·83 | 10·90 | [m]0·24 | 0·91 | 15·24 | 16·15 |
| 1958 | — | 0·11 | 0·11 | — | 1·27 | 1·66 | 0·39 | 1·20 | — | 1·66 | 2·97 | 4·63 |
| 1959 | — | — | — | — | 0·68 | — | [c]1·42 | 3·73 | — | — | 5·83 | 5·83 |
| 1960 | — | — | — | — | 2·87 | 1·16 | [c]1·21 | 2·65 | — | 1·16 | 6·73 | 7·89 |
| 1961 | — | 0·83 | 0·83 | — | 0·50 | 0·06 | [g]3·11 | 1·69 | [n]3·30 | 0·06 | 9·43 | 9·49 |
| 1962 | — | 0·36 | 0·36 | 0·31 | 0·04 | 0·10 | [p]4·75 | 2·02 | [r]5·39 | 0·04 | 12·93 | 12·97 |
| 1963 | — | 1·06 | 1·06 | 0·26 | 1·13 | — | [s]0·49 | 3·84 | [t]2·10 | 1·13 | 7·75 | 8·88 |
| 1964 | — | — | — | 0·01 | 0·07 | — | [u]0·67 | 6·17 | [f]1·42 | 0·07 | 8·27 | 8·34 |
| Total | 54·89 | 180·62 | 235·51 | 29·48 | 18·50 | 33·45 | 63·13 | 92·05 | 22·86 | 113·15 | 383·14 | 496·29 |

[b] Tin-tantalum, tantalite content not stated. [c] Marble Bar District. [d] Pippingarra. [f] 0·02 Yannietharra; 1·40 Warda Warra. [g] 0·27 Trigg Hill; 2·70 Marble Bar; 0·14 Nullagine. [h] Spargoville, Coolgardie Gold-field. [j] 1·26 Spargoville; 0·21 Ravensthorpe; 1·01 Yinnietharra. [k] 0·11 Spargoville; 0·30 Ravensthorpe. [l] 1·75 Spargoville; 0·35 Ravensthorpe. [m] Ravensthorpe. [n] 2·96 Roeburne, 0·06 Weedarra Station, Gascoyne; 0·28 Coolgardie. [p] 0·05 Shaw River; 4·70 Marble Bar. [r] 2·07 Roeburne; 0·14 Yinnietharra; 0·22 Weedarra Station; 2·95 Warda Warra. [s] 0·14 Marble Bar, 0·35 Mt. Francisco. [t] 0·29 Roeburne; 1·81 Warda Warra. [u] 0·46 Mt. Francisco; 0·21 Marble Bar.

## TANTALITE-COLUMBITE PRODUCTION—NORTHERN TERRITORY

(Figures recalculated to approximately 65 per cent $Ta_2O_5$ + $Nb_2O_5$ concentrates)[b]

| Year | Finniss River District[a] | Barrow Creek | Harts Range (Delny) | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1906 | 2·10 | — | — | 2·10 |
| 1907–26 | — | — | — | — |
| 1927 | 0·07 | — | — | 0·07 |
| 1928 | 0·33 | — | — | 0·33 |
| 1929 | 0·97 | — | — | 0·97 |
| 1930 | 2·70 | — | — | 2·70 |
| 1931 | 1·42 | — | — | 1·42 |
| 1932 | 0·76 | — | — | 0·76 |
| 1933 | — | — | — | — |
| 1934 | 0·38 | — | — | 0·38 |
| 1935 | 1·07 | — | — | 1·07 |
| 1936–37 | — | — | — | — |
| 1938 | 0·28 | — | — | 0·28 |
| 1939–42 | — | — | — | — |
| 1943 | 0·58 | 0·06 | — | 0·64 |
| 1944 | 0·12 | 0·25 | 0·17 | 0·54 |
| 1945 | — | — | 0·47 | 0·47 |
| 1946 | — | — | — | — |
| 1947 | 0·05 | — | — | 0·05 |
| 1948 | 0·98 | — | — | 0·98 |
| 1949 | 0·37 | — | — | 0·37 |
| 1950 | 0·63 | — | — | 0·63 |
| 1951 | 0·28 | — | — | 0·28 |
| 1952–53 | — | — | — | — |
| 1954 | 0·27 | 0·25 | — | 0·52 |
| 1955–4 | — | — | — | — |
| Total | 13·36 | 0·56 | 0·64 | 14·56 |

[a]Includes small production from Walker's Creek and Bynoe Harbour. [b]Northern Territory concentrates 1929–35 averaged 45 per cent $Ta_2O_5$+$Nb_2O_5$; average assumed for all production to 1938. Finniss River production 1943–44 averaged 48.1 per cent, Barrow Creek 72.4 per cent, Harts Range, 76.7 per cent.

# TIN


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## TIN PRODUCTION—AUSTRALIA

| Year | Queensland[a] | | New South Wales[d] | | Victoria[f] | | Tasmania[h] | | Western Australia[j] | | Northern Territory[k] | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1872 | 1,407 | 985 | — | — | | | | | | | | | | |
| 1873 | 8,938 | 6,257 | 2,592 | 1,814 | | | | | | | | | | |
| 1874 | 5,702 | 3,991 | 2,249 | 1,574 | | | | | | | | | | |
| 1875 | 4,475 | 3,133 | 6,277 | 4,394 | | | | | | | | | | |
| 1876 | 4,315 | 3,021 | 7,707 | 5,395 | | | | | | | | | | |
| 1877 | 3,335 | 2,335 | 5,044 | 3,531 | | | | | | | | | | |
| 1878 | 2,849 | 1,994 | 4,843 | 3,390 | | | | | | | | | | |
| 1879 | 2,877 | 2,014 | 4,759 | 3,331 | | | | | | | | | | |
| 1880 | 2,847 | 1,993 | 6,359 | 4,451 | | | | | | | | | | |
| 1881 | 3,456 | 2,419 | 7,585 | 5,310 | | | | | | | | | | |
| 1882 | 4,261 | 2,983 | 7,596 | 5,317 | | | | | | | | | | |
| 1883 | 3,346 | 2,342 | 6,897 | 4,828 | | | | | | | | | | |
| 1884 | 3,383 | 2,368 | 5,255 | 3,679 | | | | | | | | | | |
| 1885 | 3,253 | 2,277 | 4,810 | 3,367 | | | | | | | | | | |
| 1886 | 3,153 | 2,207 | 3,951 | 2,766 | | | | | | | | | | |
| 1887 | 3,279 | 2,295 | 4,355 | 3,049 | | | | | | | | | | |
| 1888 | 3,586 | 2,510 | 2,472 | 1,730 | | | | | | | | | | |
| 1889 | 3,033 | 2,123 | 3,341 | 2,339 | | | | | | | | | | |
| 1890 | 2,970 | 2,079 | 2,551 | 1,786 | | | | | | | | | | |
| 1891 | 2,236 | 1,565 | 2,278 | 1,595 | | | | | | | | | | |
| 1892 | 2,389 | 1,672 | 2,399 | 1,679 | | | | | | | | | | |
| 1893 | 2,434 | 1,704 | 2,368 | 1,658 | | | | | | | | | | |
| 1894 | 2,871 | 2,010 | 2,500 | 1,750 | | | | | | | | | | |
| 1895 | 2,114 | 1,480 | 1,531 | 1,071 | | | Estimated total 1873 to 1898 | | | | | | | |
| 1896 | 1,554 | 1,088 | 1,988 | 1,392 | | | | | | | | | | |
| 1897 | 1,203 | 842 | 1,698 | 1,189 | | | | | | | | | | |
| 1898 | 1,025 | 718 | 1,229 | 860 | Estimated total to end of 1900 | | 115,509 | 80,856 | Estimated total to 1900 | | | | | |
| 1899 | 1,308 | 916 | 1,540 | 1,078 | | | 3,199 | 2,239 | | | | | | |
| 1900 | 1,123 | 786 | 1,323 | 926 | [g]14,978 | 4,750 | 2,899 | 2,029 | 3,058 | 2,141 | | | | |
| 1901 | 1,661 | 1,163 | 1,012 | 708 | 77 | 54 | 2,556 | 1,789 | 500 | 350 | | | | |
| 1902 | 2,085 | 1,459 | 1,153 | 807 | 10 | 7 | 2,797 | 1,958 | 620 | 434 | | | | |
| 1903 | 3,708 | 2,596 | 1,410 | 987 | 33 | 23 | 3,394 | 2,376 | 817 | 572 | | | | |
| 1904 | 3,923 | 2,746 | 1,534 | 1,074 | 71 | 50 | 3,101 | 2,171 | 855 | 599 | | | | |
| 1905 | 3,945 | 2,761 | 1,819 | 1,273 | 125 | 88 | 3,891 | 2,720 | 1,079 | 755 | | | | |
| 1906 | 4,823 | 3,376 | 2,181 | 1,527 | 106 | 74 | 4,473 | 3,131 | 1,495 | 1,046 | | | | |
| 1907 | 5,140 | 3,598 | 2,699 | 1,889 | 103 | 72 | 4,343 | 3,040 | 1,624 | 1,137 | Estimated total 1882 to 1909 | | Estimated total 1872 to 1909 | |
| 1908 | 4,825 | 3,378 | 2,479 | 1,735 | 79 | 55 | 4,521 | 8,165 | 979 | 685 | | | | |
| 1909 | 3,326 | 2,328 | 2,565 | 1,795 | 89 | 62 | 4,511 | 3,158 | 754 | 528 | 3,285 | 2,300 | 432,438 | 297,510 |
| 1910 | 2,953 | 2,067 | 2,276 | 1,593 | 41 | 29 | 3,701 | 2,591 | 471 | 330 | 364 | 255 | 9,806 | 6,865 |

| Year | Queensland[a] | | New South Wales[d] | | Victoria[f] | | Tasmania[h] | | Western Australia[j] | | Northern Territory[k] | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1911 | 3,091 | 2,164 | 2,423 | 1,696 | 33 | 23 | 3,953 | 2,767 | 560 | 392 | 239 | 167 | 10,299 | 7,209 |
| 1912 | 3,230 | 2,261 | 2,576 | 1,803 | 48 | 34 | 3,714 | 2,600 | 554 | 388 | 271 | 190 | 10,393 | 7,276 |
| 1913 | 3,197 | 2,238 | 3,172 | 2,220 | 57 | 40 | 4,010 | 2,807 | 601 | 421 | 159 | 111 | 11,196 | 7,837 |
| 1914 | 2,085 | 1,459 | 2,365 | 1,655 | 53 | 37 | 2,573 | 1,800 | 332 | 232 | n.a. | n.a. | 7,408 | 5,184 |
| 1915 | 2,125 | 1,487 | 2,576 | 1,803 | 95 | 67 | 2,599 | 1,819 | 326 | 228 | [l]163 | [l]112 | 7,884 | 5,516 |
| 1916 | 1,707 | 1,195 | 2,573 | 1,801 | 122 | 85 | 2,855 | 1,998 | 435 | 304 | 140 | 98 | 7,832 | 5,481 |
| 1917 | 1,177 | 824 | 2,662 | 1,863 | 141 | 99 | 2,637 | 1,846 | 307 | 215 | 240 | 190 | 7,164 | 5,037 |
| 1918 | 1,311 | 918 | 2,401 | 1,681 | 136 | 95 | 2,256 | 1,579 | 395 | 277 | 245 | 172 | 6,744 | 4,722 |
| 1919 | 994 | 696 | 2,836 | 1,985 | 113 | 79 | 2,257 | 1,580 | 281 | 197 | 162 | 113 | 6,643 | 4,650 |
| 1920 | 1,486 | 1,040 | 2,404 | 1,683 | 84 | 59 | 1,871 | 1,310 | 232 | 162 | 179 | 126 | 6,256 | 4,380 |
| 1921 | 1,050 | 735 | 1,583 | 1,108 | 80 | 56 | 1,130 | 790 | 67 | 47 | 83 | 58 | 3,993 | 2,794 |
| 1922 | 1,098 | 769 | 1,111 | 778 | 115 | 81 | 970 | 679 | 41 | 29 | 79 | 55 | 3,414 | 2,391 |
| 1923 | 903 | 632 | 1,223 | 856 | 78 | 55 | 1,657 | 1,160 | 52 | 36 | 136 | 95 | 4,049 | 2,834 |
| 1924 | 1,196 | 837 | 1,651 | 1,156 | 38 | 27 | 1,583 | 1,108 | 81 | 57 | 97 | 68 | 4,646 | 3,253 |
| 1925 | 1,012 | 708 | 1,470 | 1,029 | 69 | 48 | 1,614 | 1,130 | 79 | 55 | 110 | 77 | 4,354 | 3,047 |
| 1926 | 1,058 | 740 | 1,609 | 1,126 | 29 | 20 | 1,566 | 1,096 | 97 | 69 | 98 | 69 | 4,457 | 3,120 |
| 1927 | 1,112 | 778 | 1,319 | 923 | 63 | 44 | 1,580 | 1,106 | 96 | 67 | 109 | 76 | 4,279 | 2,994 |
| 1928 | 1,015 | 710 | 1,461 | 1,023 | 86 | 60 | 1,630 | 1,140 | 90 | 63 | 79 | 55 | 4,361 | 3,051 |
| 1929 | 988 | 691 | 1,310 | 917 | 25 | 18 | 914 | 640 | 56 | 39 | 59 | 41 | 3,352 | 2,346 |
| 1930 | 603 | 422 | 757 | 530 | 1 | 1 | 730 | 512 | 13 | 9 | 31 | 22 | 2,135 | 1,496 |
| 1931 | 478 | 335 | 988 | 692 | 6 | 4 | 841 | 589 | 6 | 4 | 33 | 23 | 2,352 | 1,647 |
| 1932 | 708 | 496 | 931 | 652 | 8 | 6 | 1,134 | 794 | 15 | 10 | 26 | 18 | 2,822 | 1,976 |
| 1933 | 856 | 599 | 1,471 | 1,030 | 10 | 7 | 1,367 | 957 | 16 | 11 | 25 | 18 | 3,745 | 2,622 |
| 1934 | 1,056 | 739 | 1,546 | 1,096 | 22 | 15 | 1,360 | 952 | 13 | 9 | 66 | 46 | 4,063 | 2,857 |
| 1935 | 1,189 | 832 | 1,411 | 988 | 88 | 62 | 1,616 | 1,131 | 18 | 13 | 38 | 27 | 4,360 | 3,053 |
| 1936 | 1,108 | 776 | 1,463 | 1,024 | 86 | 60 | 1,429 | 1,004 | 26 | 18 | 30 | 21 | 4,142 | 2,903 |
| 1937 | 1,170 | 819 | 1,484 | 1,039 | 218 | 153 | 1,557 | 1,090 | 60 | 38 | 46 | 32 | 4,535 | 3,171 |
| 1938 | 1,005 | 703 | 1,671 | 1,170 | 169 | 118 | 1,827 | 1,279 | 53 | 37 | 18 | 13 | 4,743 | 3,320 |
| 1939 | 1,239 | 867 | 1,909 | 1,336 | 247 | 173 | 1,786 | 1,250 | 12 | 8 | 28 | 18 | 5,221 | 3,652 |
| 1940 | 1,272 | 890 | 1,949 | 1,364 | 158 | 111 | 2,043 | 1,430 | 37 | 26 | 46 | 32 | 5,505 | 3,253 |
| 1941 | 1,085 | 759 | 1,997 | 1,398 | 90 | 63 | 1,794 | 1,256 | 11 | 8 | 22 | 15 | 4,999 | 3,499 |
| 1942 | 746 | 522 | 1,709 | 1,196 | 84 | 59 | 1,640 | 1,148 | 23 | 16 | 32 | 22 | 4,234 | 2,963 |
| 1943 | 785 | 550 | 1,461 | 1,023 | 60 | 42 | 1,356 | 949 | 11 | 8 | 26 | 18 | 3,699 | 2,590 |
| 1944 | 1,232 | 862 | 1,222 | 855 | 55 | 39 | 1,156 | 810 | 11 | 8 | 4 | 8 | 3,680 | 2,582 |

[a]Tin content of concentrates is estimated at 70 per cent for years 1872 to 1952. [b]Includes small amounts of tin in tin-wolfram concentrates. [c]Includes small amounts of tin in tin-wolfram and tin in tin-wolfram-bismuth concentrates. [d]Tin content of concentrates is estimated at 70 per cent for years 1873 to 1948. [f]Tin content of concentrates is estimated at 70 per cent for years to end of 1946. [g]Ore, concentrates or ingots. [h]For years 1873 to 1904 metallic tin exported and for years to 1952 metallic tin produced. Quantity of concentrates estimated. [j]Tin content of concentrates is estimated at 70 per cent for years 1889 to 1951. [k]Year ended 31st December, 1882 to 1913, 1940 to 1943 and 1947 onwards, year ended 30th June, 1915 to 1939 and 1944 to 1946. Tin content of concentrates is estimated at 70 per cent for years 1882 to 1939. [l]Eighteen months ended 30th June. [m]Excludes 34 tons, valued at £4,000, of tin-copper concentrates.

TIN PRODUCTION—AUSTRALIA—*continued*

| Year | Queensland[a] | | New South Wales[d] | | Victoria[f] | | Tasmania[h] | | Western Australia[j] | | Northern Territory[k] | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin | Concentrates | Metallic Tin |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1945 | 931 | 652 | 1,087 | 761 | 42 | 29 | 1,144 | 801 | 41 | 29 | 20 | 16 | 3,265 | 2,288 |
| 1946 | 977 | 684 | 918 | 629 | 64 | 45 | 1,001 | 701 | 29 | 20 | 24 | 10 | 3,008 | 2,089 |
| 1947 | 1,396 | 977 | 791 | 552 | 87 | 59 | 1,186 | 830 | 24 | 17 | 20 | 14 | 3,504 | 2,449 |
| 1948 | 682 | 478 | 760 | 482 | 54 | 40 | 1,110 | 777 | 37 | 26 | 33 | 23 | 2,676 | 1,826 |
| 1949 | 1,051 | 736 | 616 | 422 | 49 | 36 | 901 | 631 | 35 | 25 | 27 | 19 | 2,679 | 1,869 |
| 1950 | 857 | 600 | 669 | 482 | 40 | 29 | 959 | 685 | 51 | 36 | 37 | 22 | 2,613 | 1,854 |
| 1951 | 488 | [b]340 | 576 | [b]413 | 50 | 36 | 998 | 706 | 61 | 43 | 37 | 24 | 2,210 | 1,562 |
| 1952 | 471 | [c]329 | 560 | [b]396 | 52 | 39 | 1,115 | 771 | 98 | 65 | 17 | 9 | 2,313 | 1,611 |
| 1953 | 411 | 292 | 483 | 342 | 44 | 31 | 1,132 | 788 | 113 | 76 | 40 | 24 | 2,223 | 1,553 |
| 1954 | 1,034 | 730 | 377 | 272 | 36 | 26 | 1,374 | 947 | 121 | 80 | 29 | 20 | 2,971 | 2,075 |
| 1955 | 1,091 | 770 | 378 | 270 | 3 | 2 | 1,232 | 853 | 180 | 119 | 6 | 4 | 2,890 | 2,018 |
| 1956 | 883 | 630 | 373 | 269 | — | — | 1,311 | 938 | 358 | 240 | 1 | 1 | 2,926 | 2,078 |
| 1957 | [m]1,155 | 772 | 297 | 211 | — | — | 1,094 | 777 | 270 | 182 | 17 | 10 | 2,867 | 1,952 |
| 1958 | 1,424 | 1,019 | 334 | 239 | — | — | 1,229 | 883 | 138 | 94 | 3 | 2 | 3,128 | 2,237 |
| 1959 | 1,547 | 1,104 | 240 | 174 | — | — | 1,252 | 890 | 250 | 174 | 15 | 9 | 3,304 | 2,351 |
| 1960 | 1,236 | 885 | 307 | 223 | — | — | 1,233 | 884 | 281 | 190 | 42 | 20 | 3,099 | 2,202 |
| 1961 | 1,887 | 1,350 | 238 | 173 | — | — | 1,390 | 986 | 341 | 231 | 14 | 5 | 3,870 | 2,745 |
| 1962 | 1,505 | 1,077 | 293 | 212 | 11 | 7 | 1,507 | 1,058 | 465 | 323 | 61 | 38 | 3,842 | 2,715 |
| 1963 | 1,692 | 1,196 | 352 | 250 | 15 | 11 | 1,435 | 1,005 | 576 | 363 | 62 | 35 | 4,132 | 2,860 |
| 1964 | 2,133 | 1,493 | 1,036 | 671 | 20 | 14 | 1,438 | 990 | 637 | 446 | 46 | 26 | 5,310 | 3,740 |
| Total | 192,329 | 134,747 | 197,999 | 138,579 | 19,046 | 7,608 | 245,941 | 172,230 | 21,365 | 14,857 | 7,319 | 5,034 | 683,999 | 473,055 |

[a]Tin content of concentrates is estimated at 70 per cent for years 1872 to 1952. [b]Includes small amounts of tin in tin-wolfram concentrates. [c]Includes small amounts of tin in tin-wolfram and tin in tin-wolfram-bismuth concentrates. [d]Tin content of concentrates is estimated at 70 per cent for years 1873 to 1948. [f]Tin content of concentrates is estimated at 70 per cent for years to end of 1946. [g]Ore, concentrates or ingots. [h]For years 1873 to 1904 metallic tin exported and for years to 1952 metallic tin produced. Quantity of concentrates estimated. [j]Tin content of concentrates is estimated at 70 per cent for years 1889 to 1951. [k]Year ended 31st December, 1882 to 1913, 1940 to 1943 and 1947 onwards, year ended 30th June, 1915 to 1939 and 1944 to 1946. Tin content of concentrates is estimated at 70 per cent for years 1882 to 1939. [l]Eighteen months ended 30th June. [m]Excludes 34 tons, valued at £4,000, of tin-copper concentrates.

TIN (REFINED) PRODUCTION[a]—AUSTRALIA

| Year | tons | Year | tons | Year | tons |
|---|---|---|---|---|---|
| 1910 | 4,970 | 1929 | 2,260 | 1947 | 2,377 |
| 1911 | 4,974 | | | 1948 | 1,884 |
| 1912 | 4,829 | 1930 | 1,544 | 1949 | 1,955 |
| 1913 | 4,743 | 1931 | 1,690 | | |
| 1914 | 3,066 | 1932 | 1,958 | 1950 | 2,013 |
| | | 1933 | 2,360 | 1951 | 1,459 |
| 1915 | 4,242 | 1934 | 2,330 | 1952 | 1,700 |
| 1916 | 3,879 | | | 1953 | 1,443 |
| 1917 | 3,990 | 1935 | 2,837 | 1954 | 2,063 |
| 1918 | 4,582 | 1936 | 2,717 | | |
| 1919 | 4,102 | 1937 | 2,907 | 1955 | 2,004 |
| | | 1938 | 3,229 | 1956 | 1,850 |
| 1920 | 4,108 | 1939 | 3,294 | 1957 | 1,806 |
| 1921 | 2,985 | | | 1958 | 2,121 |
| 1922 | 2,657 | 1940 | 3,544 | 1959 | 2,226 |
| 1923 | 3,053 | 1941 | 3,656 | | |
| 1924 | 3,167 | 1942 | 3,024 | 1960 | 2,254 |
| | | 1943 | 2,565 | 1961 | 2,546 |
| 1925 | 3,171 | 1944 | 2,442 | 1962 | 2,704 |
| 1926 | 3,188 | | | 1963 | 2,626 |
| 1927 | 2,989 | 1945 | 2,359 | 1964 | 3,045 |
| 1928 | 3,133 | 1946 | 2,225 | | |

[a]Figures not available prior to 1910.

TIN (REFINED)—PRICES
(Yearly average)

| Year | Aust. | U.K. | U.S.A. | Year | Aust. | U.K. | U.S.A. |
|---|---|---|---|---|---|---|---|
| | [b]£A per ton | [c]£stg. per ton | [d]cents per lb | | [b]£A per ton | [c]£stg. per ton | [d]cents per lb |
| 1920 | [a]301 | 296 | 50·36 | 1943 | 283 | 277 | 52·00 |
| 1921 | [a]170 | 165 | 30·00 | 1944 | 376 | 302 | 52·00 |
| 1922 | [a]165 | 160 | 32·58 | | | | |
| 1923 | [a]207 | 202 | 42·70 | 1945 | 376 | 302 | 52·00 |
| 1924 | [a]254 | 249 | 50·20 | 1946 | 376 | 323 | 54·58 |
| | | | | 1947 | 439 | 428 | 77·94 |
| 1925 | [a]266 | 261 | 57·90 | 1948 | 577 | 552 | 99·25 |
| 1926 | [a]296 | 291 | 65·30 | 1949 | 620 | 605 | 99·32 |
| 1927 | [a]294 | 289 | 64·37 | | | | |
| 1928 | 219 | 227 | 50·46 | 1950 | 725 | 745 | 95·56 |
| 1929 | 201 | 204 | 45·19 | 1951 | 1,222 | 1,077 | 128·31 |
| | | | | 1952 | 1,151 | 964 | 120·44 |
| 1930 | 145 | 142 | 31·70 | 1953 | 919 | 729 | 95·77 |
| 1931 | 148 | 118 | 24·46 | 1954 | 911 | 720 | 91·81 |
| 1932 | 163 | 136 | 22·01 | | | | |
| 1933 | 236 | 195 | 39·12 | 1955 | 947 | 740 | 94·73 |
| 1934 | 278 | 230 | 52·16 | 1956 | 1,014 | 788 | 101·16 |
| | | | | 1957 | 992 | 755 | 92·26 |
| 1935 | 264 | 226 | 50·39 | 1958 | 995 | 735 | 95·13 |
| 1936 | 242 | 205 | 46·42 | 1959 | 1,058 | 785 | 102·06 |
| 1937 | 293 | 242 | 54·24 | | | | |
| 1938 | 229 | 190 | 42·26 | 1960 | 1,042 | 797 | 101·44 |
| 1939 | 268 | 226 | 50·18 | 1961 | 1,168 | 889 | 113·31 |
| | | | | 1962 | 1,163 | 896 | 114·65 |
| 1940 | 293 | 257 | 49·82 | 1963 | 1,179 | 910 | 116·65 |
| 1941 | 295 | 261 | 52·01 | 1964 | 1,597 | 1,239 | 157·96 |
| 1942 | 285 | 277 | 52·00 | | | | |

[a]Estimated; based on U.K. price with an allowance for freight. [b]Min. 99·76%, 5 ton lots delivered Sydney. [c]To end of 1934 and from 1950 standard tin min. 99·75%, ex-warehouse or ship. From 9th December, 1941 to 15th November, 1949 price under Government control; price refers to 99% tin, delivered consumers plant. [d] "Straits tin".

## TIN—EXPORTS[a]—AUSTRALIA

| Year | Tin Ores and Concentrates | | | Tin Ingots | |
|---|---|---|---|---|---|
| | tons | Tin Content tons | £, f.o.b. | tons | £, f.o.b. |
| 1903 | 1,345 | [e]940 | 84,833 | 4,124 | 513,341 |
| 1904 | 2,017 | [e]1,410 | 132,042 | 4,474 | 611,820 |
| 1905 | 2,758 | [e]1,730 | 202,508 | 5,448 | 765,221 |
| 1906 | 2,590 | [e]1,810 | 235,586 | 6,506 | 1,168,233 |
| 1907 | 3,250 | [e]2,275 | 322,612 | 6,070 | 1,122,359 |
| 1908 | 2,470 | [e]1,720 | 214,734 | 6,099 | 808,726 |
| 1909 | 2,895 | 1,919 | 237,084 | 5,563 | 746,353 |
| 1910 | 2,410 | 1,689 | 229,204 | 4,376 | 675,836 |
| 1911 | 2,786 | 1,886 | 300,535 | 4,147 | 765,179 |
| 1912 | 3,255 | 2,221 | 410,809 | 3,875 | 790,588 |
| 1913 | 4,469 | 2,891 | 521,473 | 3,420 | 690,205 |
| 1914 | n.a. | n.a. | n.a. | n.a. | n.a. |
| 1914–15 | 2,142 | 1,466 | 198,079 | 1,495 | 226,180 |
| 1915–16 | 2,405 | 1,641 | 258,468 | 3,435 | 576,983 |
| 1916–17 | 1,997 | 1,368 | 231,588 | 3,054 | 571,353 |
| 1917–18 | 190 | 130 | 28,385 | 3,660 | 1,064,663 |
| 1918–19 | — | — | — | 3,202 | 983,799 |
| 1919–20 | — | — | — | 3,432 | 957,205 |
| 1920–21 | 49 | 30 | 7,627 | 2,056 | 497,264 |
| 1921–22 | 2 | 1 | 193 | 1,774 | 284,357 |
| 1922–23 | 12 | 7 | 1,304 | 1,811 | 320,691 |
| 1923–24 | 5 | 4 | 1,000 | 2,002 | 447,757 |
| 1924–25 | — | — | — | 1,628 | 406,000 |
| 1925–26 | 2 | 1 | 89 | 1,791 | 486,473 |
| 1926–27 | 82 | 12 | 2,151 | 1,860 | 549,576 |
| 1927–28 | 799 | — | 4,523 | 1,518 | 389,388 |
| 1928–29 | — | — | — | 1,287 | 282,636 |
| 1929–30 | 1 | † | 67 | 856 | 167,863 |
| 1930–31 | 3 | 1 | 100 | 600 | 81,660 |
| 1931–32 | 98 | 62 | 8,027 | 779 | 124,693 |
| 1932–33 | 206 | 138 | 20,905 | 979 | 189,773 |
| 1933–34 | 206 | 138 | 33,578 | 1,240 | 329,410 |
| 1934–35 | 491 | 296 | 85,793 | 1,105 | 302,271 |

[a]Figures not available prior to 1903.

TIN—EXPORTS[a]—AUSTRALIA—*continued*

| Year | Tin Ores and Concentrates | | | Tin Ingots | |
|---|---|---|---|---|---|
| | tons | Tin Content tons | £, f.o.b. | tons | £, f.o.b. |
| 1935–36 | 473 | 327 | 77,530 | 801 | 200,807 |
| 1936–37 | 455 | 273 | 71,521 | 676 | 193,928 |
| 1937–38 | 258 | 196 | 52,780 | 733 | 187,469 |
| 1938–39 | 482 | 309 | 81,306 | 1,472 | 370,137 |
| 1939–40 | 584 | 404 | 117,214 | 991 | 294,772 |
| 1940–41 | 76 | 36 | 21,071 | 1,247 | 402,335 |
| 1941–42 | 30 | 23 | 9,741 | 174 | 56,713 |
| 1942–43 | 1 | 1 | 411 | 151 | 56,546 |
| 1943–44 | 3 | 2 | 1,172 | 302 | 113,796 |
| 1944–45 | 21 | [e]14 | 8,452 | 484 | 181,430 |
| 1946 | 184 | [e]125 | 58,975 | 116 | 46,121 |
| 1947 | 3 | [e]2 | 1,065 | 1 | 457 |
| 1948 | 3 | [e]2 | 865 | † | 187 |
| 1949 | 16 | [e]10 | 8,315 | 1 | 432 |
| 1950 | 31 | [e]20 | 11,301 | † | 165 |
| 1951 | 59 | [e]40 | 31,730 | † | 20 |
| 1952 | 34 | 21 | 25,413 | 631 | 725,774 |
| 1953 | 20 | 12 | 14,229 | 81 | 84,948 |
| 1954 | 8 | [e]5 | 2,029 | 94 | 85,271 |
| 1955 | 137 | [e]95 | 82,200 | 98 | 95,341 |
| 1956 | 48 | [e]33 | 28,342 | 24 | 24,438 |
| 1957 | 168 | 107 | 96,239 | 21 | 21,227 |
| 1958 | 25 | [e]17 | 14,560 | 11 | 11,349 |
| 1959 | 42 | 34 | 27,164 | 9 | 8,963 |
| 1960 | — | — | — | 14 | 13,895 |
| 1961 | 197 | 177 | 139,824 | † | 613 |
| 1962 | — | — | — | — | — |
| 1963 | 91 | 44 | 51,694 | 7 | 6,187 |
| 1964 | 457 | 252 | 380,671 | 1 | 1,168 |

[a]Figures not available prior to 1903.

## TIN INGOTS—IMPORTS[a]—AUSTRALIA

| Year | tons | £, f.o.b. | Year | tons | £, f.o.b. |
|---|---|---|---|---|---|
| 1903 | 20 | 633 | 1933–34 | † | 58 |
| 1904 | 4 | 524 | 1934–35 | — | — |
| 1905 | 4 | 570 | 1935–36 | 1 | 318 |
| 1906 | 2 | 366 | 1936–37 | 1 | 376 |
| 1907 | 1 | 249 | 1937–38 | 84 | 20,199 |
| 1908 | 1 | 99 | 1938–39 | 39 | 8,724 |
| 1909 | † | 6 | 1939–40 | 57 | 17,183 |
| 1910 | 12 | 1,672 | 1940–41 | † | 125 |
| 1911 | 5 | 875 | 1941–42 | 30 | 10,176 |
| 1912 | 6 | 1,261 | 1942–43 | — | — |
| 1913 | † | 23 | 1943–44 | — | — |
| 1914 | n.a. | n.a. | 1944–45 | † | 3 |
| 1914–15 | 15 | 2,014 | 1946 | † | 70 |
| 1915–16 | † | 91 | 1947 | 180 | 103,500 |
| 1916–17 | 3 | 535 | 1948 | 395 | 236,676 |
| 1917–18 | 4 | 946 | 1949 | 270 | 189,723 |
| 1918–19 | — | — | | | |
| 1919–20 | 1 | 320 | 1950 | 249 | 226,777 |
| | | | 1951 | 2,723 | 3,504,331 |
| 1920–21 | 49 | 8,436 | 1952 | 180 | 213,925 |
| 1921–22 | 44 | 6,652 | 1953 | 623 | 555,540 |
| 1922–23 | 30 | 5,205 | 1954 | 571 | 507,026 |
| 1923–24 | 16 | 3,579 | | | |
| 1924–25 | 37 | 7,830 | 1955 | 506 | 454,254 |
| | | | 1956 | 516 | 496,938 |
| 1925–26 | 35 | 9,493 | 1957 | 1,218 | 1,176,433 |
| 1926–27 | 50 | 14,863 | 1958 | 1,070 | 954,619 |
| 1927–28 | 57 | 15,631 | 1959 | 1,294 | 1,277,878 |
| 1928–29 | 124 | 27,273 | | | |
| 1929–30 | 197 | 39,416 | 1960 | 1,708 | 1,685,314 |
| | | | 1961 | 778 | 836,463 |
| 1930–31 | 102 | 14,108 | 1962 | 1,778 | 1,992,901 |
| 1931–32 | 56 | 9,017 | 1963 | 1,751 | 1,861,583 |
| 1932–33 | 12 | 1,908 | 1964 | 1,283 | 1,899,241 |

[a]Figures not available prior to 1903.

## TIN CONCENTRATE PRODUCTION—QUEENSLAND

| Year | Herberton District | Stanthorpe District | Ravenswood and Star River District | Cooktown District | Kangaroo Hills District | Etheridge District | Charters Towers District | Chillagoe District | [a]Other | Total Concentrates |
|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1872 | — | 1,407 | — | — | — | — | — | — | — | 1,407 |
| 1873 | — | 8,938 | — | — | — | — | — | — | — | 8,938 |
| 1874 | — | 5,702 | — | — | — | — | — | — | — | 5,702 |
| 1875 | — | 4,475 | — | — | — | — | — | — | — | 4,475 |
| 1876 | — | 4,315 | — | — | — | — | — | — | — | 4,315 |
| 1877 | — | 3,335 | — | — | — | — | — | — | — | 3,335 |
| 1878 | — | 2,849 | — | — | — | — | — | — | — | 2,849 |
| 1879 | 131 | 2,746 | — | — | — | — | — | — | — | 2,877 |
| 1880 | 193 | 2,654 | — | — | — | — | — | — | — | 2,847 |
| 1881 | 1,184 | 2,272 | — | — | — | — | — | — | — | 3,456 |
| 1882 | 1,810 | 2,451 | — | — | — | — | — | — | — | 4,261 |
| 1883 | 3,346 | 817 | 40 | — | — | — | — | — | — | 3,346 |
| 1884 | 2,352 | 934 | 27 | — | — | — | — | — | 70 | 3,383 |
| 1885 | 2,345 | 503 | 5 | 300 | 100 | — | — | — | — | 3,253 |
| 1886 | 2,448 | 430 | 6 | 148 | 121 | — | — | — | — | 3,153 |
| 1887 | 1,808 | 356 | 12 | 945 | 98 | — | — | — | 60 | 3,279 |
| 1888 | 1,561 | 414 | 3 | 1,051 | 187 | — | — | — | 370 | 3,586 |
| 1889 | 1,818 | 310 | 6 | 690 | 79 | — | — | — | 130 | 3,033 |
| 1890 | 2,081 | 277 | — | 578 | — | 60 | — | — | 34 | 2,970 |
| 1891 | 1,377 | 244 | 58 | 472 | — | — | — | — | 85 | 2,236 |
| 1892 | 1,389 | 246 | 188 | 421 | — | — | — | — | 145 | 2,389 |
| 1893 | 1,600 | 334 | — | 347 | 80 | — | — | — | 73 | 2,434 |
| 1894 | 1,960 | 172 | 35 | 438 | 169 | — | — | — | 97 | 2,871 |
| 1895 | 1,460 | 93 | 22 | 419 | 55 | — | — | — | 65 | 2,114 |
| 1896 | 1,059 | 96 | 45 | 257 | 43 | — | — | — | 54 | 1,554 |
| 1897 | 935 | 53 | 30 | 146 | 19 | — | — | — | 20 | 1,203 |
| 1898 | 770 | 90 | 10 | 145 | 10 | — | — | — | — | 1,025 |
| 1899 | 1,030 | 73 | 10 | 166 | 22 | — | — | — | 7 | 1,308 |
| 1900 | 789 | 64 | 8 | 159 | 61 | — | — | — | 42 | 1,123 |
| 1901 | 1,137 | 81 | — | 158 | 223 | — | 2 | — | 60 | 1,661 |
| 1902 | 1,644 | 112 | 5 | 105 | 133 | — | 6 | 2 | 78 | 2,085 |
| 1903 | 2,878 | 253 | 15 | 177 | 286 | 20 | 2 | — | 78 | 3,708 |
| 1904 | 2,875 | 385 | 44 | 147 | 349 | 14 | 13 | — | 96 | 3,923 |
| 1905 | 2,975 | 334 | 30 | 142 | 362 | 20 | 28 | — | 54 | 3,945 |
| 1906 | 3,854 | 311 | 31 | 165 | 275 | 65 | 50 | — | 72 | 4,823 |
| 1907 | 4,159 | 324 | 12 | 181 | 210 | 59 | 36 | 36 | 123 | 5,140 |
| 1908 | 3,795 | 437 | 16 | 235 | 143 | 30 | 39 | 31 | 99 | 4,825 |
| 1909 | 1,888 | 115 | 14 | 248 | 78 | 30 | 68 | 815 | 69 | 3,326 |
| 1910 | 1,538 | 128 | 5 | 296 | 65 | 26 | 70 | 769 | 55 | 2,953 |
| 1911 | 2,032 | 136 | 3 | 196 | 61 | 35 | 19 | 546 | 64 | 3,091 |
| 1912 | 1,927 | 166 | 13 | 272 | 163 | 57 | 75 | 504 | 52 | 3,230 |
| 1913 | 1,861 | 247 | 4 | 293 | 206 | 10 | 34 | 497 | 47 | 3,197 |
| 1914 | 1,141 | 211 | 3 | 223 | 163 | 7 | 59 | 228 | 50 | 2,085 |
| 1915 | 1,164 | 181 | 5 | 297 | 129 | — | — | 320 | 29 | 2,125 |
| 1916 | 821 | 309 | 4 | 235 | 131 | 1 | 1 | 186 | 22 | 1,707 |
| 1917 | 541 | 214 | — | 218 | 70 | 1 | 16 | 104 | 13 | 1,177 |
| 1918 | 714 | 170 | — | 152 | 68 | 1 | 4 | 193 | 10 | 1,311 |
| 1919 | 525 | 119 | — | 127 | 92 | 2 | 1 | 124 | 5 | 994 |

[a]Includes Palmer District (915 tons); Port Douglas District (1,216 tons); Croydon District (279 tons); Coen District (35 tons).
[b]Includes 34 tons valued at £4,000 of tin-copper cons., from Kangaroo Hills.

TIN CONCENTRATE PRODUCTION—QUEENSLAND—*continued*

| Year | Herberton District | Stanthorpe District | Ravenswood and Star River District | Cooktown District | Kangaroo Hills District | Etheridge District | Charters Towers District | Chillagoe District | [a]Other | Total Concentrates |
|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1920 | 836 | 158 | — | 125 | 260 | — | 3 | 95 | 9 | 1,486 |
| 1921 | 477 | 125 | — | 111 | 275 | — | — | 57 | 2 | 1,050 |
| 1922 | 493 | 149 | — | 107 | 294 | 3 | — | 44 | 7 | 1,098 |
| 1923 | 529 | 113 | — | 75 | 124 | — | — | 46 | 16 | 903 |
| 1924 | 804 | 61 | — | 59 | 207 | — | 9 | 55 | 2 | 1,196 |
| 1925 | 640 | 101 | — | 65 | 146 | — | — | 54 | 6 | 1,012 |
| 1926 | 571 | 146 | — | 41 | 222 | — | — | 74 | 3 | 1,058 |
| 1927 | 499 | 212 | — | 54 | 258 | — | — | 76 | 13 | 1,112 |
| 1928 | 604 | 188 | — | 48 | 107 | — | — | 66 | 2 | 1,015 |
| 1929 | 642 | 148 | — | 44 | 99 | — | — | 51 | 4 | 988 |
| 1930 | 404 | 82 | — | 30 | 54 | — | — | 31 | 2 | 603 |
| 1931 | 329 | 43 | — | 63 | 11 | — | — | 25 | 7 | 478 |
| 1932 | 426 | 123 | — | 40 | 48 | — | 3 | 65 | 3 | 708 |
| 1933 | 505 | 136 | — | 46 | 57 | — | 3 | 99 | 9 | 856 |
| 1934 | 683 | 153 | — | 55 | 100 | — | — | 60 | 5 | 1,056 |
| 1935 | 801 | 209 | — | 55 | 104 | — | — | 16 | 4 | 1,189 |
| 1936 | 678 | 180 | 1 | 77 | 91 | — | — | 77 | 4 | 1,108 |
| 1937 | 661 | 170 | 1 | 94 | 147 | — | — | 96 | 1 | 1,170 |
| 1938 | 600 | 119 | 9 | 71 | 122 | — | — | 78 | 6 | 1,005 |
| 1939 | 752 | 126 | 19 | 105 | 136 | 3 | — | 89 | 9 | 1,239 |
| 1940 | 755 | 165 | 28 | 113 | 106 | 2 | — | 97 | 5 | 1,272 |
| 1941 | 606 | 175 | 11 | 104 | 118 | 4 | — | 60 | 5 | 1,085 |
| 1942 | 396 | 145 | 29 | 61 | 65 | 1 | — | 48 | 1 | 746 |
| 1943 | 578 | 72 | 5 | 46 | 35 | † | — | 48 | — | 785 |
| 1944 | 1,085 | 63 | 2 | 34 | 23 | † | — | 25 | — | 1,232 |
| 1945 | 821 | 38 | 2 | 27 | 16 | — | 1 | 25 | — | 931 |
| 1946 | 867 | 34 | 12 | 21 | 20 | — | — | 24 | — | 977 |
| 1947 | 1,283 | 27 | 15 | 28 | 31 | † | — | 11 | — | 1,396 |
| 1948 | 577 | 19 | — | 31 | 37 | — | — | 8 | 10 | 682 |
| 1949 | 923 | 33 | — | 37 | 33 | — | — | 20 | 5 | 1,051 |
| 1950 | 693 | 37 | — | 30 | 65 | — | 4 | 20 | 8 | 857 |
| 1951 | 376 | 21 | — | 43 | 13 | — | 4 | 15 | 14 | 488 |
| 1952 | 347 | 20 | 4 | 47 | 26 | † | — | 24 | 3 | 471 |
| 1953 | 256 | 33 | 7 | 64 | 21 | † | 4 | 22 | 4 | 411 |
| 1954 | 850 | 16 | — | 68 | 24 | — | — | 64 | 12 | 1,034 |
| 1955 | 941 | 13 | — | 47 | 55 | — | — | 19 | 16 | 1,091 |
| 1956 | 793 | 8 | — | 30 | 17 | — | † | 22 | 12 | 883 |
| 1957 | 1,058 | 6 | — | 30 | 38 | — | — | 14 | 9 | [b]1,155 |
| 1958 | 1,217 | 10 | — | 28 | 34 | — | † | 127 | 8 | 1,424 |
| 1959 | 1,303 | 16 | — | 17 | 36 | — | 2 | 160 | 13 | 1,547 |
| 1960 | 1,030 | 7 | — | 30 | 34 | — | 3 | 120 | 12 | 1,236 |
| 1961 | 1,639 | 12 | — | 14 | 57 | — | 1 | 148 | 16 | 1,887 |
| 1962 | 1,174 | 70 | — | 21 | 30 | — | 2 | 189 | 19 | 1,505 |
| 1963 | 1,331 | 60 | — | 22 | 36 | — | 3 | 223 | 17 | 1,692 |
| 1964 | 1,775 | 47 | — | 33 | 15 | — | 5 | 230 | 28 | 2,133 |
| Total | 104,464 | 54,773 | 854 | 12,940 | 8,098 | 451 | 570 | 7,373 | 2,655 | 192,329 |

[a]Includes Palmer District (915 tons); Port Douglas District (1,216 tons); Croydon District (279 tons); Coen District (35 tons)
[b]Includes 34 tons valued at £4,000 of tin-copper cons., from Kangaroo Hills.

## TIN CONCENTRATE PRODUCTION—NEW SOUTH WALES

| Year | Emmaville | Tingha | Wilson's Downfall and Tenterfield | Glen Innes[a] | Ardlethan | Deepwater | Torrington | Kikoira and Yalgogrin | Bendemeer | Other[b] | Total Concentrates |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1872 | [c] | [c] | — | — | — | — | — | — | — | — | [c] |
| 1873 | 2,592 | [c] | — | — | — | — | — | — | — | — | [i]2,592 |
| 1874 | 2,249 | [c] | — | — | — | — | — | — | — | — | [i]2,249 |
| 1875 | 3,043 | 1,674 | 1,560 | — | — | — | — | — | — | — | 6,277 |
| 1876 | 3,009 | 2,300 | 1,386 | 1,000 | — | — | — | — | — | — | 7,707 |
| 1877 | 1,749 | 1,800 | 1,395 | 100 | — | — | — | — | — | — | 5,044 |
| 1878 | 1,936 | 1,500 | 1,107 | 300 | — | — | — | — | — | — | 4,843 |
| 1879 | 2,715 | 1,035 | 709 | 300 | — | — | — | — | — | — | 4,759 |
| 1880 | 3,696 | 1,722 | 677 | 264 | — | — | — | — | — | — | 6,359 |
| 1881 | 4,040 | 2,500 | 545 | 500 | — | — | — | — | — | — | 7,585 |
| 1882 | 3,517 | 3,111 | 615 | 353 | — | — | — | — | — | — | 7,596 |
| 1883 | 2,509 | 3,636 | 450 | 302 | — | — | — | — | — | — | 6,897 |
| 1884 | 2,241 | 2,392 | 490 | 132 | — | — | — | — | — | — | 5,255 |
| 1885 | 2,505 | 1,834 | 311 | 160 | — | — | — | — | — | — | 4,810 |
| 1886 | 1,894 | 1,649 | 307 | 91 | — | — | — | — | 10 | — | 3,951 |
| 1887 | 2,640 | 1,260 | 270 | 171 | — | — | — | — | 8 | — | 4,355 |
| 1888 | 1,038 | 1,007 | 203 | 196 | — | — | — | — | — | — | 2,472 |
| 1889 | 1,553 | 1,352 | 254 | 143 | — | — | — | — | 26 | — | 3,341 |
| 1890 | 1,150 | 1,000 | 220 | 151 | — | — | — | — | 30 | — | 2,551 |
| 1891 | 973 | 600 | 240 | 48 | — | 400 | — | — | 17 | — | 2,278 |
| 1892 | 1,063 | 500 | 244 | 165 | — | 420 | — | — | — | — | 2,399 |
| 1893 | 1,035 | 700 | 177 | 90 | — | 350 | — | — | 7 | — | 2,368 |
| 1894 | 1,108 | 742 | 157 | 92 | — | 350 | — | — | 13 | — | 2,500 |
| 1895 | 900 | 139 | 98 | 165 | — | 200 | — | — | 12 | — | 1,531 |
| 1896 | 723 | 628 | 150 | 175 | — | 300 | — | — | 12 | — | 1,988 |
| 1897 | 600 | 690 | 80 | 66 | — | 250 | — | — | 12 | — | 1,698 |
| 1898 | 473 | 540 | 65 | [c] | — | 150 | — | — | — | — | 1,229 |
| 1899 | 696 | 470 | 69 | 90 | — | 200 | — | — | 9 | — | 1,540 |
| 1900 | 438 | 500 | 79 | 70 | — | 200 | — | — | 12 | — | 1,323 |
| 1901 | 307 | 402 | 75 | 5 | — | 200 | — | — | 13 | — | 1,012 |
| 1902 | 466 | 400 | 43 | 4 | — | 210 | — | — | 10 | — | 1,153 |
| 1903 | 450 | 465 | 50 | 7 | — | [e]224 | — | [e]1 | 22 | — | 1,410 |
| 1904 | 500 | 550 | 180 | 15 | — | 250 | — | [e]4 | 15 | — | 1,534 |
| 1905 | 453 | 1,157 | 104 | 10 | — | [e]70 | — | [e]1 | 12 | — | 1,819 |
| 1906 | 410 | 1,481 | 121 | 100 | — | [c] | — | [e]2 | 11 | — | 2,181 |
| 1907 | 413 | 1,812 | 170 | 145 | — | 83 | — | 2 | 19 | [i]6 | 2,699 |
| 1908 | 547 | 1,407 | 234 | 64 | — | [e]158 | — | 2 | 14 | [e]44 | 2,479 |
| 1909 | 675 | 1,495 | 229 | 24 | — | [e]100 | — | — | — | [e]24 | 2,565 |
| 1910 | 788 | 1,057 | 195 | 70 | — | [e]82 | — | — | 24 | 50 | 2,276 |
| 1911 | 806 | 1,176 | 199 | 73 | — | 36 | 54 | — | 33 | 35 | 2,423 |
| 1912 | 1,119 | 1,006 | 167 | 67 | [e]58 | 19 | 76 | — | 20 | [e]36 | 2,576 |
| 1913 | 1,085 | 1,169 | 158 | 128 | [e]354 | 46 | 116 | [e]3 | 52 | [e]53 | 3,172 |
| 1914 | 991 | 795 | 125 | 101 | [e]271 | 30 | [i]12 | 2 | 27 | [e]2 | 2,365 |
| 1915 | 1,045 | 662 | 139 | 103 | [e]538 | 22 | 59 | [e]1 | [i]4 | 3 | 2,576 |
| 1916 | 1,089 | 700 | 138 | 170 | 314 | 30 | 62 | 1 | [e]34 | 34 | 2,573 |
| 1917 | 936 | 600 | 128 | 138 | [e]496 | 22 | 103 | 2 | [e]26 | 208 | 2,662 |
| 1918 | 874 | 691 | 155 | 143 | [e]358 | 20 | 90 | 4 | [e]27 | 37 | 2,401 |
| 1919 | 996 | 627 | 156 | 162 | 680 | 14 | 95 | — | [e]5 | 117 | 2,836 |

[a] Including Kookabookra. [b] Includes small quantities produced from the following localities:—Holbrook and Tumut, Tumbarumba, Broken Hill, Narrandera, Barmedman, Condobolin, Gunaring, Gundle, Bingara, Uralla, Bungonia and Tolwong Fifield, Armidale and Hillgrove, South Woodburn, Grenfell, Euabolong, Trundle, Ballina. [c] Not stated. [d] 45 tons from Condobolin. [f] 321 tons from Condobolin.

TIN CONCENTRATE PRODUCTION—NEW SOUTH WALES—*continued*

| Year | Emmaville | Tingha | Wilson's Downfall and Tenterfield | Glen Innes[a] | Ardlethan | Deepwater | Torrington | Kikoira and Yalgogrin | Bendemeer | Other[b] | Total Concentrates |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1920 | 892 | 687 | 114 | 166 | 358 | 15 | 117 | — | 9 | 46 | 2,404 |
| 1921 | 538 | 570 | 58 | 42 | 120 | 29 | 184 | — | 20 | [e]21 | 1,583 |
| 1922 | 363 | 370 | 45 | 13 | 77 | 7 | 207 | — | 13 | 16 | 1,111 |
| 1923 | 365 | 400 | 63 | 17 | 173 | 5 | 160 | — | 28 | 11 | 1,223 |
| 1924 | 442 | 532 | 51 | 33 | 385 | 2 | 127 | 1 | 31 | 44 | 1,651 |
| 1925 | 357 | 443 | 64 | 34 | 340 | 11 | 135 | — | 43 | [e]42 | 1,470 |
| 1926 | 402 | 473 | 59 | 47 | 362 | 20 | 150 | — | 48 | 19 | 1,609 |
| 1927 | 355 | 389 | 66 | 108 | [e]91 | 23 | 202 | — | 18 | 34 | 1,319 |
| 1928 | 308 | 471 | 51 | 95 | 342 | 11 | 139 | — | 13 | 9 | 1,461 |
| 1929 | 183 | 351 | 41 | 117 | 418 | 37 | 133 | — | 13 | 10 | 1,310 |
| 1930 | 142 | 290 | 28 | 43 | [e]50 | 24 | 162 | — | 8 | 7 | 757 |
| 1931 | 176 | 303 | 47 | 22 | 257 | 9 | 128 | — | 2 | 31 | 988 |
| 1932 | 209 | 346 | 38 | 48 | 136 | 28 | 124 | — | 3 | 8 | 931 |
| 1933 | 261 | 530 | 32 | 155 | 195 | 40 | 192 | — | 39 | 10 | 1,471 |
| 1934 | 242 | 550 | 45 | 171 | 285 | 50 | 133 | 3 | 31 | 11 | 1,546 |
| 1935 | 257 | 424 | 19 | 109 | 269 | 23 | 166 | — | 25 | 18 | 1,411 |
| 1936 | 266 | 406 | 17 | 176 | 223 | 37 | 222 | † | 77 | 32 | 1,463 |
| 1937 | 243 | 574 | 25 | 132 | 156 | 51 | 188 | † | 68 | 37 | 1,484 |
| 1938 | 243 | 615 | 101 | 130 | 205 | 29 | 213 | 16 | 64 | 50 | 1,671 |
| 1939 | 303 | 642 | 50 | 150 | 181 | 11 | 285 | 146 | 53 | 83 | 1,909 |
| 1940 | 255 | 593 | 118 | 100 | 136 | 19 | 213 | 360 | 56 | 95 | 1,949 |
| 1941 | 243 | 555 | 96 | 93 | 107 | 34 | 122 | 628 | 55 | 67 | 1,997 |
| 1942 | 169 | 441 | 50 | 69 | 34 | 10 | 113 | 709 | 67 | 47 | 1,709 |
| 1943 | 123 | 443 | 82 | 49 | 83 | 7 | 111 | 474 | 50 | 39 | 1,461 |
| 1944 | 150 | 370 | 48 | 56 | 44 | 29 | 117 | 350 | 32 | 26 | 1,222 |
| 1945 | 160 | 322 | 47 | 43 | 10 | 10 | 55 | 350 | 32 | 26 | 1,087 |
| 1946 | 109 | 305 | 52 | 41 | 17 | 12 | 64 | 228 | 39 | 30 | 913 |
| 1947 | 137 | 268 | 27 | 40 | 24 | 20 | 65 | 149 | 40 | 19 | 791 |
| 1948 | 92 | 258 | 33 | 29 | 13 | 26 | 65 | 122 | 39 | 11 | 760 |
| 1949 | 76 | 195 | 14 | 55 | 13 | 25 | 72 | 92 | 31 | 12 | 616 |
| 1950 | 81 | 286 | 14 | 41 | 11 | 22 | 65 | 102 | 34 | 6 | 669 |
| 1951 | 90 | 281 | 20 | 25 | 8 | 10 | 21 | 82 | 21 | 6 | 576 |
| 1952 | 77 | 274 | [e]14 | 41 | 11 | 22 | 28 | 63 | 17 | — | 560 |
| 1953 | 48 | 235 | 16 | 14 | 24 | 10 | 28 | 78 | 10 | — | 483 |
| 1954 | 26 | 148 | 11 | 2 | 52 | 29 | — | 96 | 3 | — | 377 |
| 1955 | 56 | 174 | † | 4 | 48 | 18 | — | 74 | 1 | 3 | 378 |
| 1956 | 63 | 181 | — | 4 | 61 | 13 | — | 46 | 4 | 1 | 373 |
| 1957 | 41 | 139 | 15 | 6 | 50 | 13 | — | 31 | 2 | — | 297 |
| 1958 | 31 | 174 | 8 | 5 | 55 | 26 | — | 30 | 2 | 3 | 334 |
| 1959 | 20 | 163 | 19 | 4 | 13 | 6 | — | 10 | 2 | 3 | 240 |
| 1960 | 34 | 126 | 24 | 9 | 66 | 35 | — | 13 | † | — | 307 |
| 1961 | 19 | 109 | 15 | 10 | 31 | 36 | — | 17 | 1 | — | 238 |
| 1962 | 14 | 133 | 36 | 14 | 51 | 32 | — | — | 1 | 12 | 293 |
| 1963 | 13 | 135 | 22 | 26 | 55 | 26 | — | — | 4 | [d]71 | 352 |
| 1964 | 47 | 216 | 3 | 14 | 371 | 21 | — | — | 3 | [f]361 | 1,036 |
| Total | 73,756 | 68,823 | 16,422 | 9,345 | 9,080 | 5,409 | 5,173 | 5,295 | 1,708 | 2,988 | 197,999 |

[a] Including Kookabookra. [b] Includes small quantities produced from the following localities:—Holbrook and Tumut, Tumbarumba, Broken Hill, Narrandera, Barmedman, Condobolin, Gunaring, Gundle, Bingara, Uralla, Bungonia and Tolwong, Fifield, Armidale and Hillgrove, South Woodburn, Grenfell, Euabolong, Trundle, Ballina. [c] Not stated. [d] 45 tons from Condobolin. [f] 321 tons from Condobolin.

## TIN CONCENTRATE PRODUCTION—VICTORIA

| Year | Beechworth Eldorado | Toora | Other | Total Concentrates | Year | Beechworth Eldorado | Toora | Other | Total Concentrates |
|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | | tons | tons | tons | tons |
| Prior to 1901 | [a] | [a] | [a] | 14,978 | 1930 | 1 | — | — | 1 |
| | | | | | 1931 | † | 6 | — | 6 |
| 1901 | 77 | — | — | 77 | 1932 | 1 | 4 | 3 | 8 |
| 1902 | 10 | — | — | 10 | 1933 | — | 10 | — | 10 |
| 1903 | 17 | — | 16 | 33 | 1934 | 13 | 9 | — | 22 |
| 1904 | 33 | 34 | 4 | 71 | | | | | |
| | | | | | 1935 | 73 | 6 | 9 | 88 |
| 1905 | 67 | 43 | 15 | 125 | 1936 | 78 | 7 | 1 | 86 |
| 1906 | 57 | 23 | 26 | 106 | 1937 | 213 | 5 | — | 218 |
| 1907 | 47 | 27 | 29 | 103 | 1938 | 165 | 4 | — | 169 |
| 1908 | 39 | 23 | 17 | 79 | 1939 | 245 | 2 | — | 247 |
| 1909 | 44 | 24 | 21 | 89 | | | | | |
| | | | | | 1940 | 157 | 1 | — | 158 |
| 1910 | 16 | 10 | 15 | 41 | 1941 | 89 | — | 1 | 90 |
| 1911 | 9 | 4 | 20 | 33 | 1942 | 83 | — | 1 | 84 |
| 1912 | 19 | 4 | 25 | 48 | 1943 | 60 | — | — | 60 |
| 1913 | 12 | 18 | 27 | 57 | 1944 | 55 | — | — | 55 |
| 1914 | 7 | 29 | 17 | 53 | | | | | |
| | | | | | 1945 | 42 | — | — | 42 |
| 1915 | 89 | 6 | — | 95 | 1946 | 64 | — | — | 64 |
| 1916 | 109 | 11 | 2 | 122 | 1947 | 87 | — | — | 87 |
| 1917 | 117 | 10 | 14 | 141 | 1948 | 54 | — | — | 54 |
| 1918 | 125 | 5 | 6 | 136 | 1949 | 49 | — | — | 49 |
| 1919 | 104 | 2 | 7 | 113 | | | | | |
| | | | | | 1950 | 40 | — | — | 40 |
| 1920 | 78 | 1 | 5 | 84 | 1951 | 50 | — | — | 50 |
| 1921 | 76 | 4 | — | 80 | 1952 | 52 | — | — | 52 |
| 1922 | 115 | — | — | 115 | 1953 | 44 | — | — | 44 |
| 1923 | 78 | — | — | 78 | 1954 | 36 | — | — | 36 |
| 1924 | 38 | — | — | 38 | | | | | |
| | | | | | 1955 | 3 | — | — | 3 |
| 1925 | 69 | — | — | 69 | 1956–61 | — | — | — | — |
| 1926 | 29 | — | — | 29 | 1962 | 6 | — | 5 | 11 |
| 1927 | 44 | 4 | 15 | 63 | 1963 | 5 | — | 10 | 15 |
| 1928 | 61 | 17 | 8 | 86 | 1964 | 6 | — | 14 | 20 |
| 1929 | 14 | 10 | 1 | 25 | Total | 3,370 | 363 | [b]314 | 19,046 |

[a]Not stated. [b]Including Chiltern (total 55), Walwa (total 41), Running Creek (total 34), Rutherglen (total 32). Includes small quantities produced from the following localities:—Myrtleford, Koetong, Upper Yarra, Sunnyside, Mr. Cudgewa, Bunyip, Buxton, Grassy Creek, Mitta Mitta, Glen Wills, Berringama, Benambra, Clear Creek, Tallangatta, Shelley,Granya, Tallandoo, Eskdale, Lightning Creek, Reedy Creek, Surveyor's Creek.

## TIN PRODUCTION—TASMANIA[a]

| Year | North-Western Region | | Western Region | Northern Region | North-Eastern Region | | | | Eastern Region | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Mt. Bischoff | Other[b] | Heemskirk, Renison Bell, etc. | Moina | Derby[d] | Pioneer, Gladstone and Mt. Stronach | Lottah, Blue Tier and Weldborough | Other[f] | [g] | Concentrate | Tin Content |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| Total to 1898 | 36,300 | — | — | — | — | — | — | — | — | 115,509 | 80,856 |
| 1899 | 1,273 | 35 | 7 | — | 273 | — | 299 | 25 | 133 | 3,199 | 2,239 |
| 1900 | 1,296 | [i]6 | 3 | 19 | 72 | — | 412 | 11 | [i]29 | 2,899 | 2,029 |
| 1901 | 1,016 | [i]15 | 3 | 16 | 178 | 101 | [i]160 | 41 | [i]131 | 2,556 | 1,789 |
| 1902 | 840 | 41 | 40 | n.a. | 336 | 347 | [i]321 | 80 | [i]212 | 2,797 | 1,958 |
| 1903 | 856 | 54 | 74 | n.a. | 468 | 398 | 387 | 235 | 330 | 3,394 | 2,376 |
| 1904 | 821 | 27 | 89 | 1 | 457 | 606 | 377 | 184 | 383 | 3,101 | 2,171 |
| 1905 | 1,193 | 46 | 100 | 19 | 1,069 | 562 | 333 | 226 | 281 | 3,891 | 2,720 |
| 1906 | 1,018 | 89 | 119 | 12 | 1,484 | 874 | 371 | 252 | 207 | 4,473 | 3,131 |
| 1907 | 728 | 153 | 136 | 30 | 1,508 | 858 | 392 | 281 | 226 | 4,343 | 3,040 |
| 1908 | 918 | 177 | 135 | 90 | 1,567 | 977 | 249 | 203 | 191 | 4,521 | 3,165 |
| 1909 | 1,012 | 307 | 280 | 84 | 1,201 | 834 | 305 | 275 | 208 | 4,511 | 3,158 |
| 1910 | 1,072 | 170 | 370 | 39 | 706 | 637 | 280 | 175 | 209 | 3,701 | 2,591 |
| 1911 | 1,124 | 216 | 295 | 44 | 623 | 926 | 310 | 233 | 214 | 3,953 | 2,767 |
| 1912 | 1,219 | 247 | 225 | 49 | 592 | 901 | 245 | 191 | 154 | 3,714 | 2,600 |
| 1913 | 1,207 | 282 | 355 | 57 | 575 | 859 | 235 | 153 | 315 | 4,010 | 2,807 |
| 1914 | 716 | 191 | 265 | 41 | 243 | 628 | 159 | 152 | 199 | 2,573 | 1,800 |
| 1915 | 454 | 227 | 202 | 73 | 314 | 727 | 131 | 175 | 315 | 2,599 | 1,819 |
| 1916 | 479 | 270 | 256 | 67 | 396 | 719 | 107 | 213 | 350 | 2,855 | 1,998 |
| 1917 | 448 | 235 | 250 | 72 | 377 | 631 | 81 | 199 | 324 | 2,637 | 1,846 |
| 1918 | 450 | 194 | 255 | 62 | 397 | 428 | 51 | 102 | 309 | 2,256 | 1,579 |
| 1919 | 212 | 164 | 123 | 39 | 187 | 324 | 53 | 93 | 144 | 2,257 | 1,580 |
| 1920 | 280 | 85 | 124 | † | 242 | 306 | 45 | 47 | 163 | 1,871 | 1,310 |
| 1921 | 193 | 13 | 51 | 1 | 104 | 232 | 40 | 52 | 106 | 1,130 | 790 |
| 1922 | 116 | 6 | 34 | 1 | 111 | 260 | 41 | 32 | 78 | 970 | 679 |
| 1923 | 194 | 53 | 46 | † | 296 | 309 | 44 | 44 | 172 | 1,657 | 1,160 |
| 1924 | 222 | 24 | 40 | 1 | 220 | 362 | 56 | 44 | 138 | 1,583 | 1,108 |
| 1925 | 275 | 84 | 25 | 9 | 197 | 233 | 62 | 64 | 182 | 1,614 | 1,130 |
| 1926 | 293 | 131 | 10 | 3 | 118 | 161 | 8 | 37 | 85 | 1,566 | 1,096 |
| 1927 | 220 | 58 | 3 | 4 | [c] | n.a. | n.a. | [c] | [c] | 1,580 | 1,106 |
| 1928 | 206 | 8 | 20 | — | 329 | 369 | 16 | 129 | 240 | 1,630 | 1,140 |
| 1929 | 67 | 16 | 47 | — | 109 | 126 | 6 | 100 | 106 | 914 | 640 |
| 1930 | 7 | n.a. | n.a. | — | [c] | n.a. | n.a. | [c] | [c] | 730 | 512 |
| 1931 | 129 | n.a. | 3 | — | [c] | n.a. | n.a. | [c] | [c] | 841 | 589 |
| 1932 | 268 | n.a. | 9 | — | 70 | 64 | 50 | 77 | 114 | 1,134 | 794 |
| 1933 | 226 | n.a. | 12 | — | 87 | 170 | 73 | 63 | 261 | 1,367 | 957 |
| 1934 | 232 | 11 | 10 | — | 53 | 129 | 71 | 90 | 305 | 1,360 | 952 |

[a] Prior to 1904, exports of tin metal were recorded as production. From 1905–1918 production of concentrate was recorded. From 1919 production has been recorded in terms of metallic tin; quantity of concentrate has been estimated. [b] Includes small quantities from King Island, Waratah and other localities. [c] Not stated. [d] Includes production from Briseis Mine and others. [f] Includes production from Branxholm, Pioneer, Gladstone and Mt. Stronach, Flinders and Cape Barren Island, Bridport and Scottsdale. [g] Includes production from St. Helens, Coles Bay, Moorina and Avoca District. [i] Includes 66 tons from Southern Region.

TIN PRODUCTION—TASMANIA[a]—*continued*

| Year | North-Western Region | | Western Region | Northern Region | North-Eastern Region | | | | Eastern Region | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Mt. Bischoff | Other[b] | Heemskirk, Renison Bell, etc. | Moina | Derby[d] | Pioneer, Gladstone and Mt. Stronach | Lottah, Blue Tier and Weldborough | Other[f] | [g] | Concentrate | Tin Content |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1935 | 218 | 27 | 16 | 5 | 38 | 169 | 123 | 82 | 622 | 1,616 | 1,131 |
| 1936 | 169 | 37 | 47 | † | 70 | 189 | 82 | 87 | 323 | 1,429 | 1,004 |
| 1937 | 123 | 34 | 44 | 1 | 175 | 240 | 39 | 85 | 348 | 1,557 | 1,090 |
| 1938 | 121 | 16 | 68 | 1 | 436 | 203 | 63 | 65 | 202 | 1,827 | 1,279 |
| 1939 | 136 | 7 | 62 | 2 | 380 | 206 | 61 | 70 | 322 | 1,786 | 1,250 |
| 1940 | 130 | 6 | 75 | — | 492 | 98 | 49 | 54 | 393 | 2,043 | 1,430 |
| 1941 | 94 | 4 | 129 | — | 434 | 135 | 54 | 38 | 345 | 1,794 | 1,256 |
| 1942 | 75 | 9 | 95 | — | 332 | 215 | 28 | 30 | 353 | 1,640 | 1,148 |
| 1943 | 74 | 3 | 73 | — | 257 | 138 | 6 | 31 | 353 | 1,356 | 949 |
| 1944 | 98 | 5 | 76 | — | 194 | 70 | 5 | 26 | 306 | 1,156 | 810 |
| 1945 | 62 | 3 | 77 | 1 | 170 | 142 | 11 | 24 | 305 | 1,144 | 801 |
| 1946 | 45 | 2 | 84 | 2 | 97 | 183 | 9 | 6 | 267 | 1,001 | 701 |
| 1947 | 32 | — | 57 | — | 75 | 197 | 4 | 9 | 403 | 1,186 | 830 |
| 1948 | — | † | 57 | † | 45 | 260 | 14 | 16 | 378 | 1,110 | 777 |
| 1949 | 4 | — | 61 | — | 19 | 183 | 18 | 29 | 313 | 901 | 631 |
| 1950 | 16 | — | 49 | † | 46 | 197 | 14 | 17 | 344 | 959 | 685 |
| 1951 | 23 | † | 52 | — | 48 | 198 | 4 | 17 | 360 | 998 | 706 |
| 1952 | 28 | — | 60 | † | 47 | 207 | 6 | 19 | 402 | 1,115 | 771 |
| 1953 | 46 | † | 72 | † | 32 | 191 | 3 | 15 | 425 | 1,132 | 788 |
| 1954 | 40 | — | 65 | † | 45 | 205 | 6 | 13 | 568 | 1,374 | 947 |
| 1955 | 37 | — | 42 | 13 | 37 | 212 | 2 | 9 | 496 | 1,232 | 853 |
| 1956 | 18 | 20 | 87 | 20 | 20 | 191 | 1 | 10 | 638 | 1,311 | 938 |
| 1957 | 2 | 14 | 79 | — | 34 | 167 | 5 | 20 | 456 | 1,094 | 777 |
| 1958 | † | 8 | 85 | — | 38 | 186 | 8 | 17 | 541 | 1,229 | 883 |
| 1959 | — | 8 | 94 | — | 20 | 125 | 29 | 8 | 606 | 1,252 | 890 |
| 1960 | — | 5 | 88 | — | 12 | 167 | 13 | 10 | 589 | 1,233 | 884 |
| 1961 | 1 | 6 | 174 | — | 12 | 185 | 10 | 6 | 602 | 1,390 | 986 |
| 1962 | 1 | 8 | 242 | — | 7 | 354 | 10 | 10 | 875 | 1,507 | 1,058 |
| 1963 | 1 | 17 | 355 | — | 10 | 236 | 5 | 4 | 807 | 1,435 | 1,005 |
| 1964 | 2 | 14 | 468 | — | 21 | 188 | 4 | 5 | 736 | 1,438 | 990 |
| Total | 59,176 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 245,941 | [j]172,230 |

[a] Prior to 1904, exports of tin metal were recorded as production. From 1905–1918 production of concentrate was recorded. From 1919 production has been recorded in terms of metallic tin; quantity of concentrate has been estimated. [b] Includes small quantities from King Island, Waratah and other localities. [c] Not stated. [d] Includes production from Briseis Mine and others. [f] Includes production from Branxholm, Pioneer, Gladstone and Mt. Stronach, Flinders and Cape Barren Island, Bridport and Scottsdale. [g] Includes production from St. Helens, Coles Bay, Moorina and Avoca District. [j] Includes 66 tons from Southern Region.

## TIN CONCENTRATE PRODUCTION—WESTERN AUSTRALIA

| Year | Greenbushes M.F. | Pilbara Goldfield | | | | | | Total |
|---|---|---|---|---|---|---|---|---|
| | Greenbushes | Coogle-gong | Mool-yella | Tabba Tabba | Wodgina | Miscel-laneous | Total | Concen-trates |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1889 to 1901 | 2,624 | 239 | 605 | — | — | 90 | 934 | 3,558 |
| 1902 | 403 | 92 | 105 | — | 1 | 19 | 217 | 620 |
| 1903 | 525 | 173 | 103 | — | 37 | 14 | 292 | 817 |
| 1904 | 534 | 114 | 117 | — | 9 | 81 | 321 | 855 |
| 1905 | 644 | 141 | 256 | — | 21 | 18 | 434 | 1,079 |
| 1906 | 783 | 147 | 519 | — | 45 | 1 | 712 | 1,495 |
| 1907 | 770 | 154 | 576 | — | 123 | — | 854 | 1,624 |
| 1908 | 576 | 114 | 252 | — | 37 | — | 403 | 979 |
| 1909 | 459 | 88 | 124 | — | 82 | — | 297 | 754 |
| 1910 | 318 | 62 | 58 | — | 34 | — | 154 | 471 |
| 1911 | 411 | 63 | 56 | — | 29 | — | 149 | 560 |
| 1912 | 430 | 53 | 60 | — | 10 | — | 123 | 554 |
| 1913 | 458 | 62 | 62 | — | 15 | — | 139 | 601 |
| 1914 | 245 | 36 | 38 | — | 13 | — | 87 | 332 |
| 1915 | 247 | 40 | 34 | — | 5 | — | 79 | 326 |
| 1916 | 282 | 28 | 34 | 85 | 6 | — | 153 | 435 |
| 1917 | 238 | 19 | 31 | 10 | 9 | — | 69 | 307 |
| 1918 | 296 | 33 | 46 | 14 | 7 | — | 100 | 395 |
| 1919 | 245 | 15 | 20 | 2 | — | — | 37 | 281 |
| 1920 | 190 | 14 | 23 | 5 | — | — | 42 | 232 |
| 1921 | 53 | 6 | 8 | † | — | — | 15 | 67 |
| 1922 | 16 | 6 | 19 | † | — | — | 25 | 41 |
| 1923 | 28 | 5 | 19 | † | — | — | 24 | 52 |
| 1924 | 53 | 9 | 19 | 1 | — | — | 29 | 81 |
| 1925 | 55 | 11 | 12 | 1 | — | — | 24 | 79 |
| 1926 | 61 | 16 | 19 | † | — | — | 35 | 97 |
| 1927 | 58 | 19 | 18 | † | — | — | 37 | 96 |
| 1928 | 55 | 9 | 24 | † | 2 | 1 | 35 | 90 |
| 1929 | 38 | 5 | 13 | — | — | — | 18 | 56 |
| 1930 | 1 | 2 | 3 | — | — | 6 | 12 | 13 |
| 1931 | — | — | 6 | — | — | — | 6 | 6 |
| 1932 | 8 | 1 | 6 | — | — | — | 7 | 15 |
| 1933 | 3 | 4 | 9 | — | — | — | 13 | 16 |
| 1934 | 2 | 2 | 8 | — | — | 1 | 11 | 13 |

[a] Includes small quantities produced from Poona and Cuddingwarra, Murchison District; Bulla Bulling, Coolgardie District; Kathleen Valley, East Murchison District; Mount Dockrell, Kimberley District; and Roeburne, West Pilbara District.

TIN CONCENTRATE PRODUCTION—WESTERN AUSTRALIA—*continued*

| Year | Greenbushes M.F. | Pilbara Goldfield | | | | | | Concentrates |
|---|---|---|---|---|---|---|---|---|
| | Greenbushes | Coogle-gong | Mool-yella | Tabba Tabba | Wodgina | Miscel-laneous | Total | Total |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1935 | 17 | — | — | 1 | — | — | 1 | 18 |
| 1936 | 22 | — | — | 5 | — | — | 5 | 26 |
| 1937 | 57 | 1 | — | 2 | — | — | 3 | 60 |
| 1938 | 52 | — | — | 1 | — | — | 1 | 53 |
| 1939 | 11 | — | 1 | — | — | — | 1 | 12 |
| 1940 | 34 | 1 | 2 | — | — | — | 3 | 37 |
| 1941 | 5 | — | 4 | 1 | — | 1 | 6 | 11 |
| 1942 | 13 | 2 | 4 | † | — | 4 | 11 | 23 |
| 1943 | 6 | — | 3 | † | — | — | 5 | 11 |
| 1944 | 1 | 2 | 7 | 1 | — | — | 10 | 11 |
| 1945 | 32 | — | 8 | — | — | 1 | 8 | 41 |
| 1946 | 15 | — | 8 | — | — | 9 | 14 | 29 |
| 1947 | 6 | † | 17 | — | † | † | 18 | 24 |
| 1948 | 2 | † | 31 | — | † | 3 | 35 | 37 |
| 1949 | 3 | 6 | 20 | — | † | 5 | 32 | 35 |
| 1950 | 30 | 12 | 8 | — | † | † | 21 | 51 |
| 1951 | 22 | 35 | 2 | 1 | 1 | † | 38 | 61 |
| 1952 | 36 | 58 | 2 | — | 2 | † | 62 | 98 |
| 1953 | 41 | 68 | 3 | — | — | — | 71 | 113 |
| 1954 | 49 | 34 | 44 | — | — | — | 78 | 121 |
| 1955 | 120 | 40 | 19 | — | — | 1 | 60 | 180 |
| 1956 | 131 | 192 | 27 | 1 | — | 7 | 227 | 358 |
| 1957 | 49 | 208 | 8 | — | — | 5 | 221 | 270 |
| 1958 | 14 | 83 | 41 | — | — | — | 124 | 138 |
| 1959 | 23 | 155 | 44 | — | — | 28 | 227 | 250 |
| 1960 | 20 | 133 | 76 | 1 | — | 51 | 261 | 281 |
| 1961 | 19 | 118 | 159 | — | — | 45 | 322 | 341 |
| 1962 | 23 | 107 | 220 | — | — | 115 | 442 | 465 |
| 1963 | 47 | 108 | 328 | — | — | 92 | 528 | 576 |
| 1964 | 57 | 177 | 278 | — | — | 124 | 579 | 637 |
| Total | 12,059 | 3,327 | 4,664 | 130 | 452 | 723 | 9,296 | [a]21,365 |

[a] Includes small quantities produced from Poona and Cuddingwarra, Murchison District; Bulla Bulling, Coolgardie District; Kathleen Valley, East Murchison District; Mount Dockrell, Kimberley District; and Roeburne, West Pilbara District.

## TIN CONCENTRATE PRODUCTION—NORTHERN TERRITORY

| Year[a] | Maranboy | Mt. Wells and Burrundie | Horseshore Creek and Mt. Todd | Wolfram Camp | Hayes Creek | Daly River | Hidden Valley | Bamboo Creek | Anningie and Connis-ton | Miscellaneous and unidentifiable[d] | Total Concentrates |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1882 to 1909 | — | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 3,284·60 |
| 1910 | — | 136·55 | 73·00 | 16·65 | n.a. | 2·40 | 3·85 | n.a. | n.a. | 131·55 | 364·00 |
| 1911 | — | 79·50 | 40·00 | 20·00 | n.a. | 1·00 | 3·75 | n.a. | n.a. | 94·75 | 239·00 |
| 1912 | — | 100·35 | 40·00 | 14·00 | n.a. | 3·00 | 4·00 | n.a. | n.a. | 109·40 | 270·75 |
| 1913 | 5·60 | 49·80 | 71·35 | 8·30 | n.a. | n.a. | 1·10 | n.a. | n.a. | 22·50 | 158·60 |
| 1914 } 1915 } | n.a. | 73·40 | 54·00 | 29·50 | n.a. | n.a. | n.a. | n.a. | n.a. | 6·55 | 163·45 |
| 1916 | 84·11 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 55·89 | 140·00 |
| 1917 | 130·80 | 16·75 | 13·50 | 21·00 | n.a. | n.a. | n.a. | n.a. | n.a. | 57·95 | 240·00 |
| 1918 | 90·75 | 26·70 | n.a. | 29·60 | n.a. | n.a. | n.a. | n.a. | n.a. | 98·45 | 245·50 |
| 1919 | 78·30 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 83·80 | 162·10 |
| 1920 | 66·24 | 32·11 | 11·75 | 22·30 | 19·20 | n.a. | n.a. | n.a. | n.a. | 27·90 | 179·50 |
| 1921 | 53·00 | 16·00 | n.a. | n.a. | 8·00 | n.a. | n.a. | n.a. | n.a. | 6·00 | 83·00 |
| 1922 | 29·57 | 5·26 | 20·86 | 1·90 | 5·80 | n.a. | n.a. | n.a. | n.a. | 15·36 | 78·75 |
| 1923 | 52·76 | 20·10 | 14·35 | 11·00 | 9·95 | n.a. | n.a. | n.a. | n.a. | 27·64 | 135·80 |
| 1924 | 18·29 | 30·48 | n.a. | n.a. | 2·85 | 26·27 | 0·58 | n.a. | n.a. | 18·28 | 96·75 |
| 1925 | 48·85 | 32·04 | n.a. | n.a. | 9·75 | 9·15 | 6·47 | n.a. | n.a. | 1·60 | 110·18 |
| 1926 | 35·91 | 29·66 | n.a. | n.a. | 12·75 | 5·00 | 4·93 | n.a. | n.a. | 9·42 | 97·67 |
| 1927 | 60·62 | 29·75 | n.a. | n.a. | 6·45 | 0·50 | 3·05 | n.a. | n.a. | 8·18 | 108·55 |
| 1928 | 49·00 | 18·88 | n.a. | n.a. | 3·68 | 0·25 | n.a. | n.a. | n.a. | 7·31 | 79·12 |
| 1929 | 42·51 | 4·62 | n.a. | n.a. | 3·90 | 1·45 | n.a. | n.a. | n.a. | 6·95 | 59·43 |
| 1930 | 23·07 | 0·50 | n.a. | n.a. | 0·40 | n.a. | 1·15 | n.a. | n.a. | 5·45 | 30·57 |
| 1931 | 20·78 | n.a. | n.a. | n.a. | 11·35 | n.a. | 1·15 | n.a. | n.a. | 0·20 | 33·48 |
| 1932 | 11·26 | n.a. | n.a. | n.a. | 7·05 | n.a. | 2·00 | n.a. | n.a. | 5·67 | 25·98 |
| 1933 | 9·91 | n.a. | n.a. | n.a. | 8·62 | n.a. | n.a. | n.a. | n.a. | 6·25 | 24·78 |
| 1934 | 46·35 | n.a. | n.a. | 9·10 | 6·75 | n.a. | n.a. | n.a. | n.a. | 3·85 | 66·05 |
| 1935 | 30·60 | n.a. | n.a. | n.a. | 0·30 | n.a. | n.a. | n.a. | n.a. | 8·82 | 37·96 |
| 1936 | 22·16 | 2·42 | — | — | 0·62 | — | — | — | 2·80 | — | 29·76 |
| 1937 | 22·45 | 1·50 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 18·50 | 3·70 | 46·15 |
| 1938 | 12·50 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 5·70 | 3·72 | 17·85 |
| 1939 | 21·59 | 0·17 | n.a. | 0·23 | n.a. | n.a. | n.a. | n.a. | 4·27 | 0·38 | 27·57 |
| 1939[b] | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 1·10 | 17·50 | 18·89 |

[a]1910–1913, year ending 31st December; 1915–1939, year ending 30th June; 1940–1943, year ending 31st December; 1940–1943, year ending 31st December; 1944–1946, year ending 30th June; 1947–1955, year ending 31st December. [b]Six months ending 31st December. [c]Six months ending 30th June. [d]Includes Barrow Creek (5·26); Umbra Warra (176·11); Emerald Hill (23·5); Pine Creek (26·82); Mt. Shoe Bridge (20·06); Mt. Tolmer (13·11); West Arm (96·85); Ferguson River (7·89); Shaddow Creek (35·21); Finniss River (16·44); Mary River (38·56); and other miscellaneous unidentified sources.

TIN CONCENTRATE PRODUCTION—NORTHERN TERRITORY—*continued*

| Year[a] | Maranboy | Mt. Wells and Burrundie | Horseshore Creek and Mt. Todd | Wolfram Camp | Hayes Creek | Daly River | Hidden Valley | Bamboo Creek | Anningie and Conniston | Miscellaneous and unidentifiable | Total Concentrates |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1940 | 10·92 | 0·10 | n.a. | n.a. | 0·20 | 0·10 | n.a. | 1·53 | 1·55 | 12·47 | 26·87 |
| 1941 | 17·93 | 0·04 | 0·19 | n.a. | 0·14 | 0·22 | n.a. | 1·04 | n.a. | 2·69 | 22·25 |
| 1942 | 23·50 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 8·71 | 32·21 |
| 1943 | 19·51 | n.a. | n.a. | n.a. | n.a. | 0·35 | n.a. | n.a. | 0·56 | 5·47 | 25·89 |
| 1944 | 3·73 | n.a. | n.a. | n.a. | n.a. | 0·21 | n.a. | n.a. | n.a. | 0·11 | 4·05 |
| 1945 | 8·61 | 0·21 | n.a. | n.a. | n.a. | n.a. | n.a. | 10·80 | 0·22 | 0·58 | 20·42 |
| 1946 | 12·41 | 0·29 | 0·24 | n.a. | n.a. | n.a. | n.a. | 4·94 | 0·17 | 0·11 | 18·16 |
| 1946[b] | 0·05 | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 4·11 | n.a. | 1·87 | 6·03 |
| 1947 | 12·26 | 0·07 | — | — | 0·03 | — | — | 6·24 | 0·65 | 0·74 | 19·99 |
| 1948 | 18·24 | n.a. | 0·30 | n.a. | n.a. | 0·10 | n.a. | 8·54 | 0·70 | 5·20 | 33·08 |
| 1949 | 18·20 | 0·18 | 0·05 | n.a. | n.a. | 0·25 | n.a. | 2·07 | 0·04 | 6·61 | 27·40 |
| 1950 | 23·08 | n.a. | n.a. | n.a. | n.a. | 0·50 | n.a. | 0·70 | n.a. | 13·01 | 37·29 |
| 1951 | 28·23 | 0·30 | n.a. | n.a. | n.a. | 0·09 | n.a. | n.a. | 0·25 | 8·06 | 36·93 |
| 1952 | 12·63 | 1·33 | 0·60 | n.a. | n.a. | 0·83 | 1·06 | n.a. | n.a. | 0·72 | 17·17 |
| 1953 | 26·42 | n.a. | 7·37 | n.a. | n.a. | n.a. | 2·00 | n.a. | n.a. | 4·11 | 39·90 |
| 1954 | 15·00 | n.a. | n.a. | n.a. | n.a. | n.a. | 12·49 | n.a. | 0·47 | 0·83 | 28·79 |
| 1955 | — | — | — | — | — | — | 4·70 | — | — | — | 5·75 |
| 1956 | — | — | — | — | — | — | — | † | — | † | 1·00 |
| 1957 | — | — | — | — | — | — | — | — | — | 17·00 | 17·00 |
| 1958 | 3·00 | — | — | — | — | — | — | — | — | † | 3·00 |
| 1959 | — | 14·00 | — | — | — | — | — | — | — | 1·00 | 15·00 |
| 1960 | — | 40·00 | — | — | — | — | — | — | — | 2·00 | 42·00 |
| 1961 | — | 13·00 | — | — | — | — | — | — | — | 1·00 | 14·00 |
| 1962 | 4·00 | 54·00 | — | — | — | — | — | — | — | 3·00 | 61·00 |
| 1963 | 1·00 | 55·00 | — | — | — | — | — | — | — | 6·00 | 62·00 |
| 1964 | † | 46·00 | — | — | — | — | — | — | — | † | 46·00 |
| Total | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. | 7,318·97 |

[a]1910–1913, year ending 31st December, 1915–1939, year ending 30th June; 1940–43, year ending 31st December; 1940–1943, year ending 31st December; 1944–46, year ending 30th June; 1947–1955, year ending 31st December. [b]Six months ending 31st December. [c]Six months ending 30th June. [d]Includes Barrow Creek (5·26); Umbra Warra (176·11); Emerald Hill (23·55); Pine Creek (26·82); Mt. Shoe Bridge (20·06); Mt. Tolmer (13·11); West Arm (96·85); Ferguson River (7·89); Shaddow Creek (35·21); Finniss River (16·44); Mary River (38·56); and other miscellaneous unidentified sources.

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## RUTILE PRODUCTION—AUSTRALIA

| Year | Queensland | | | New South Wales | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|
| | Rutile Cons. | Mixed Cons. | Total Rutile Content[a] | Rutile Cons. | Mixed Cons. | Total Rutile Content[a] | Rutile Cons. | Mixed Cons. | Total Rutile Content[a] |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1906 | — | — | — | — | — | — | [c]9 | — | [c]9 |
| 1934 | — | — | — | — | 51 | 12 | — | 51 | 12 |
| 1935 | — | — | — | — | 665 | 114 | — | 665 | 114 |
| 1936 | — | — | — | — | n.r. | 587 | — | † | 587 |
| 1937 | — | — | — | — | 6,777 | 1,092 | — | 6,777 | 1,092 |
| 1938 | — | — | — | — | [i]96 | 447 | [c]8 | [i]96 | 447 |
| 1939 | — | — | — | — | 3,034 | 701 | [c]2 | 3,034 | 701 |
| 1940 | — | — | — | — | 7,457 | 1,585 | [c]2 | 7,457 | 1,585 |
| 1941 | — | 1,000 | 263 | — | 18,083 | 3,455 | — | 19,083 | 3,718 |
| 1942 | — | 3,634 | 991 | — | 15,518 | 4,385 | — | 19,152 | 5,376 |
| 1943 | — | 6,782 | 1,872 | 319 | [b]12,419 | 4,740 | 319 | [b]19,201 | 6,612 |
| 1944 | — | 14,328 | 4,179 | 2,027 | [b]7,481 | 4,460 | 2,027 | [b]21,809 | 8,639 |
| 1945 | 600 | 11,942 | 4,519 | 3,360 | 6,737 | 5,062 | 3,960 | 18,679 | 9,581 |
| 1946 | 1,869 | 3,311 | 3,127 | 3,037 | 5,138 | 4,705 | 4,906 | 8,449 | 7,832 |
| 1947 | 2,734 | 3,332 | 3,941 | 5,730 | 8,652 | 8,784 | 8,464 | 11,984 | 12,725 |
| 1948 | 6,306 | — | 6,023 | 7,081 | 5,605 | 8,984 | 13,387 | 5,605 | 15,007 |
| 1949 | 5,068 | — | 4,863 | 8,026 | 3,360 | 8,875 | 13,094 | 3,360 | 13,738 |
| Total 1906–49 | 16,577 | 44,329 | 29,778 | 29,580 | 101,073 | 57,988 | 46,178 | 145,402 | 87,775 |

| Year | Queensland | | New South Wales | | Western Australia[d] | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Rutile Cons. | $TiO_2$ Content | Rutile Cons. | $TiO_2$ Content | Rutile Cons. | $TiO_2$ Content | Rutile Cons. | $TiO_2$ Content |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1950 | 7,729 | 7,493 | 10,583 | 10,209 | — | — | 18,312 | 17,702 |
| 1951 | 12,129 | 11,121 | 23,060 | 22,311 | — | — | 35,189 | 33,432 |
| 1952 | 13,564 | 13,204 | 24,450 | 23,657 | — | — | 38,014 | 36,861 |
| 1953 | 16,124 | 15,844 | 21,915 | 21,223 | — | — | 38,039 | 37,067 |
| 1954 | 21,925 | 21,139 | 22,734 | 21,872 | — | — | 44,659 | 43,011 |
| 1955 | 25,210 | 24,198 | 34,403 | 33,045 | — | — | 59,613 | 57,243 |
| 1956 | 31,902 | 30,772 | 64,914 | 62,470 | — | — | 96,816 | 93,242 |
| 1957 | 42,748 | 41,500 | 86,155 | 83,363 | — | — | 128,903 | 124,863 |
| 1958 | 36,540 | 35,755 | 46,491 | 44,915 | 297 | 285 | 83,328 | 80,955 |
| 1959 | 35,522 | 34,736 | 46,283 | 44,792 | 100 | 96 | 81,905 | 79,624 |
| 1960 | 34,120 | 33,260 | 54,002 | 52,262 | 515 | 493 | 88,637 | 86,015 |
| 1961 | 33,908 | 33,056 | 66,607 | 64,284 | 913 | 877 | 101,428 | 98,217 |
| 1962 | 38,501 | 37,472 | 80,171 | 77,227 | 523 | 501 | 119,195 | 115,200 |
| 1963 | 47,348 | 45,454 | 135,149 | 129,931 | 763 | 732 | 183,260 | 176,117 |
| 1964 | 50,153 | 48,772 | 131,549 | 126,319 | 669 | 632 | 182,371 | 175,723 |
| Total 1950–64 | 447,423 | 433,776 | 848,466 | 817,880 | 3,780 | 3,616 | 1,299,669 | 1,255,272 |

[a]Including rutile in zircon concentrates. [b]Including "zircon-rich" concentrates. [c]From South Australia.
[d] Despatches.

## ILMENITE PRODUCTION—AUSTRALIA

| Year | Queensland | | | New South Wales | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|
| | Ilmenite Cons.[a] | Mixed Cons. | Total Ilmenite Content | Ilmenite Cons.[a] | Mixed Cons. | Total Ilmenite Content | Ilmenite Cons.[a] | Mixed Cons. | Total Ilmenite Content[b] |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1933 | — | — | — | — | — | — | [c]550 | — | 550 |
| 1934 | — | — | — | — | 51 | 8 | — | 51 | 8 |
| 1935 | — | — | — | — | 665 | 133 | — | 665 | 133 |
| 1936 | — | — | — | — | [d] | 666 | — | [d] | 666 |
| 1937 | — | — | — | — | 6,777 | 660 | — | 6,777 | 660 |
| 1938 | — | — | — | — | [i]96 | 325 | — | [i]96 | 325 |
| 1939 | — | — | — | — | 3,034 | 672 | — | 3,034 | 672 |
| 1940 | — | — | — | — | 7,457 | 1,514 | — | 7,457 | 1,514 |
| 1941 | — | 1,000 | 254 | 298 | 17,138 | 3,465 | 298 | 18,138 | 3,719 |
| 1942 | — | 3,634 | 922 | 565 | 13,730 | 3,593 | 565 | 17,364 | 4,515 |
| 1943 | 61 | 6,573 | 1,629 | 2,683 | 3,991 | 3,755 | 2,744 | 10,564 | 5,384 |
| 1944 | 624 | 12,642 | 3,639 | 3,278 | 1,206 | 3,533 | 3,902 | 13,848 | 7,172 |
| 1945 | 2,009 | 8,225 | 4,120 | 3,394 | 4,481 | 4,240 | 5,403 | 12,706 | 8,360 |
| 1946 | 2,762 | 97 | 3,073 | 3,027 | 2,250 | 3,537 | 5,789 | 2,347 | 6,610 |
| 1947 | 3,391 | — | 3,702 | 6,344 | 517 | 6,608 | 9,735 | 517 | 10,310 |
| 1948 | 4,127 | — | 4,250 | 7,371 | — | 7,075 | 11,498 | — | 11,325 |
| 1949 | 3,999 | — | 3,950 | 5,864 | — | 6,869 | [f]9,935 | — | 10,819 |
| Total 1933–49 | 16,973 | 32,171 | 25,539 | 32,824 | 61,393 | 46,653 | 50,419 | 93,564 | 72,742 |

| Year | Queensland | | New South Wales | | Western Australia[g] | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Ilmenite Cons. | $TiO_2$ Content | Ilmenite Cons. | $TiO_2$ Content | Ilmenite Cons. | $TiO_2$ Content | Ilmenite Cons. | $TiO_2$ Content |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1950 | — | — | 50 | n.a. | 84 | n.a. | 134 | n.a. |
| 1951 | — | — | 1,233 | 380 | — | — | 1,233 | 380 |
| 1952 | 15 | 6 | 31 | 14 | — | — | 46 | 20 |
| 1953 | — | — | — | — | — | — | — | — |
| 1954 | 3 | 2 | 466 | 228 | — | — | 469 | 230 |
| 1955 | 65 | 32 | 470 | 230 | — | — | 535 | 262 |
| 1956 | — | — | 981 | 481 | 3,293 | 1,779 | 4,274 | 2,260 |
| 1957 | 150 | 78 | 976 | 485 | 70,029 | 38,325 | 71,155 | 38,888 |
| 1958 | — | — | 131 | 59 | 69,817 | 38,219 | 69,948 | 38,278 |
| 1959 | — | — | 230 | 111 | 83,347 | 45,566 | 83,577 | 45,677 |
| 1960 | 22 | 11 | 1,192 | 537 | 105,283 | 58,098 | 106,497 | 58,646 |
| 1961 | 4 | 2 | 2,012 | 905 | 163,849 | 92,410 | 165,865 | 93,317 |
| 1962 | — | — | 4,288 | 1,930 | 174,579 | 97,832 | 178,867 | 99,762 |
| 1963 | — | — | 5,975 | 2,689 | 195,008 | 108,772 | 200,983 | 111,461 |
| 1964 | 108 | 48 | 6,198 | 2,789 | 297,322 | 163,527 | 303,628 | 166,364 |
| Total 1950–64 | 367 | 179 | 24,233 | [i]10,838 | 1,162,611 | 644,528 | 1,187,211 | 655,545 |

[a]Where no return of ilmenite has been furnished, output has been estimated from zircon and rutile production on the basis of the zircon-rutile-ilmenite ratios. [b]Includes up to 10 per cent of garnet, monazite, cassiterite, magnetite, chromite, etc., and ilmenite contained in zircon and zircon-rutile concentrates. [c]Produced in Tasmania. [d]Not stated. [f]Includes 72 tons from Western Australia. [g]Despatches.

## RUTILE AND ILMENITE CONCENTRATES[a]—EXPORTS—AUSTRALIA

| Year | Rutile Concentrates | | Ilmenite Concentrates | | Mixed Concentrates | |
|---|---|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. | tons | £, f.o.b. |
| 1946 | 4,857 | 114,772 | n.r.s. | n.r.s. | 8,236 | 67,221 |
| 1947 | 8,880 | 217,955 | n.r.s. | n.r.s. | 12,508 | 145,918 |
| 1948 | 13,270 | 341,315 | n.r.s. | n.r.s. | 5,216 | 80,287 |
| 1949 | 11,623 | 236,203 | n.r.s. | n.r.s. | 3,158 | 38,212 |
| 1950 | 15,292 | 337,276 | n.r.s. | n.r.s. | 1,568 | 20,981 |
| 1951 | 35,040 | 853,140 | n.r.s. | n.r.s. | [b] | [b] |
| 1952 | 37,654 | 1,601,005 | n.r.s. | — | — | — |
| 1953 | 36,076 | 1,818,088 | 93 | 733 | — | — |
| 1954 | 44,417 | 1,737,377 | 171 | 1,007 | — | — |
| 1955 | 59,687 | 3,109,441 | 434 | 2,632 | — | — |
| 1956 | 89,887 | 6,597,570 | 1,130 | 10,260 | — | — |
| 1957 | 119,052 | 8,616,911 | 37,811 | 226,906 | — | — |
| 1958 | 75,615 | 4,630,417 | 56,243 | 306,533 | — | — |
| 1959 | 80,938 | 3,609,429 | 68,649 | 248,985 | — | — |
| 1960 | 93,706 | 4,064,163 | 75,319 | 302,782 | — | — |
| 1961 | 99,652 | 3,207,412 | 144,009 | 626,492 | — | — |
| 1962 | 117,291 | 3,628,703 | 155,075 | 684,160 | — | — |
| 1963 | 154,508 | 5,316,160 | 152,040 | 739,835 | — | — |
| 1964 | 193,893 | 7,039,754 | 246,056 | 1,163,876 | — | — |

[a] Not recorded as separate items prior to 1946. [b] Exports of mixed concentrates ceased after 1950.

## ILMENITE CONCENTRATES —IMPORTS—AUSTRALIA

| Year | tons | £, f.o.b. |
|---|---|---|
| 1954 | 14,054 | 82,798 |
| 1955 | 9,146 | 50,934 |
| 1956 | 13,540 | 86,550 |
| 1957 | 500 | 3,744 |
| 1958-64 | — | — |

[a]Not recorded as separate item prior to 1954.

# TUNGSTEN

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Tungsten—Production of Wolfram-Scheelite Concentrates—Tasmania 453–454

Tungsten—Production of Wolfram-Scheelite Concentrates–Western Australia 455–456

Tungsten—Production of Wolfram Concentrates—Northern Territory 457–458

## TUNGSTEN CONCENTRATES[a] PRODUCTION—AUSTRALIA

| Year | Queensland | | | New South Wales | | Victoria | Tasmania | | South Australia | Western Australia | | Northern Territory | Total | | | Total Concentrates |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Wolfram | Bismuth Wolfram | Scheelite | Wolfram[d] | Scheelite | Wolfram | Wolfram | Scheelite | Ferberite and Wolfram | Wolfram | Scheelite | Wolfram | Wolfram | Bismuth Wolfram[a] | Scheelite | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1894 | 105·00 | — | — | — | — | — | — | — | — | — | — | — | 105·00 | — | — | 105·00 |
| 1895 | 25·00 | — | — | — | — | — | — | — | — | — | — | — | 25·00 | — | — | 25·00 |
| 1896 | 3·00 | — | — | — | — | — | — | — | — | — | — | — | 3·00 | — | — | 3·00 |
| 1897 | 13·00 | — | — | — | — | — | — | — | — | — | — | — | 13·00 | — | — | 13·00 |
| 1898 | 78·00 | — | — | 9·00 | 1·25 | — | — | — | — | — | — | — | 87·00 | — | 1·25 | 88·25 |
| 1899 | 259·00 | — | — | 25·00 | 74·00 | — | 3·50 | — | — | — | — | — | 287·50 | — | 74·00 | 361·50 |
| 1900 | 189·50 | — | — | 5·25 | 45·30 | — | 53·75 | — | — | — | — | — | 248·50 | — | 45·30 | 293·80 |
| 1901 | 72·00 | 17·55 | — | 6·50 | — | — | — | — | — | — | — | 2·00 | 80·50 | 17·55 | — | 98·05 |
| 1902 | 55·00 | 3·00 | — | — | — | — | — | — | — | — | — | — | 55·00 | 3·00 | — | 58·00 |
| 1903 | 197·00 | 14·00 | — | 9·00 | 3·00 | — | — | — | — | — | — | — | 206·00 | 14·00 | 3·00 | 223·00 |
| 1904 | 1,538·90 | 3·85 | 1·15 | 89·05 | 15·50 | — | 15·50 | — | — | — | — | 28·00 | 1,671·45 | 3·85 | 16·65 | 1,691·95 |
| 1905 | 1,409·00 | 21·50 | 4·00 | 86·50 | 138·30 | — | 32·25 | — | — | — | — | 25·00 | 1,552·75 | 21·50 | 142·30 | 1,716·55 |
| 1906 | 768·00 | 23·00 | 4·50 | 132·15 | 109·45 | — | 19·65 | — | — | — | — | 108·00 | 1,027·80 | 23·00 | 113·95 | 1,164·75 |
| 1907 | 615·20 | 10·50 | 2·25 | 206·75 | 196·00 | — | 40·85 | — | — | — | — | 91·00 | 953·80 | 10·50 | 198·25 | 1,162·55 |
| 1908 | 421·00 | 80·00 | 1·70 | 86·15 | 153·70 | 3·00 | 4·83 | — | — | — | — | 35·00 | 549·98 | 80·00 | 155·40 | 785·38 |
| 1909 | 606·25 | 64·00 | — | 127·00 | 193·30 | 14·00 | 28·35 | — | — | 1·54 | — | 32·00 | 809·14 | 64·00 | 193·30 | 1,066·44 |
| 1910 | 855·75 | 34·00 | 3·25 | 165·67 | 160·50 | 19·60 | 67·35 | — | — | 2·85 | — | 69·85 | 1,181·07 | 34·00 | 153·85 | 1,368·92 |
| 1911 | 539·40 | 129·00 | 5·00 | 283·10 | 108·45 | 18·05 | 69·96 | — | 2·00 | 9·40 | — | 49·25 | 971·16 | 129·00 | 113·45 | 1,213·61 |
| 1912 | 626·50 | 191·50 | — | 171·80 | 55·90 | 6·25 | 66·49 | — | 0·20 | — | — | 39·00 | 910·24 | 191·50 | 55·90 | 1,157·64 |
| 1913 | 358·75 | 181·75 | 0·10 | 125·75 | 44·05 | 0·75 | 68·07 | — | 0·10 | 1·08 | — | 11·35 | 565·85 | 181·75 | 44·15 | 791·75 |
| 1914 | 240·90 | 193·05 | — | 139·45 | 57·40 | — | 46·87 | — | 0·30 | — | — | 20·00 | 447·52 | 193·05 | 57·40 | 697·97 |
| 1915 | 416·30 | 246·90 | 2·00 | 50·40 | 32·60 | 5·45 | 94·69 | — | 0·30 | 0·18 | — | } 167·75 | { 567·32 | 246·90 | 34·60 | 848·82 |
| 1916 | 370·00 | 136·50 | — | 183·31 | 80·70 | 0·60 | 106·27 | — | 0·20 | 1·15 | — | } | { 829·28 | 136·50 | 80·70 | 1,046·48 |
| 1917 | 352·80 | 131·25 | 10·00 | 118·23 | 126·59 | 22·68 | 172·19 | 69·00 | 0·20 | — | — | 222·50 | 888·60 | 131·25 | 205·59 | 1,225·44 |
| 1918 | 248·70 | 114·30 | 18·15 | 136·41 | 117·12 | 4·30 | 155·36 | 216·00 | — | — | — | 201·00 | 745·77 | 114·30 | 351·27 | 1,211·34 |
| 1919 | 228·50 | 139·90 | 12·75 | 135·00 | 80·20 | 2·15 | 120·91 | 199·00 | — | — | 5·46 | 270·00 | 756·56 | 139·90 | 297·41 | 1,193·87 |

[a]All figures recalculated from 1938 as nearly as possible to 65 per cent concentrates; for actual production of concentrates see tables for each State. [b]Northern Territory production during last six months of 1937; adjustment made in order to express production in calendar years from 1938. [c]Frogmore output recorded as wolfram allotted on the basis of 2 scheelite: 1 wolfram from 1938. [d]$WO_3$ content of wolfram-bismuth concentrates produced in N.S.W. (1949–1953) included in production of wolfram concentrates.

TUNGSTEN CONCENTRATES[a] PRODUCTION—AUSTRALIA—*continued*

| Year | Queensland | | | New South Wales | | Victoria | Tasmania | | South Australia | Western Australia | | Northern Territory | Total | | | Total Concentrates |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Wolfram | Bismuth Wolfram | Scheelite | Wolfram[a] | Scheelite | Wolfram | Wolfram | Scheelite | Ferberite and Wolfram | Wolfram | Scheelite | Wolfram | Wolfram | Bismuth Wolfram[a] | Scheelite | |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1920 | 80·65 | 49·05 | 2·42 | 14·00 | 21·00 | 7·30 | 70·89 | 105·09 | — | — | 2·48 | 102·65 | 275·49 | 49·05 | 130·99 | 455·53 |
| 1921 | 4·50 | — | — | — | — | — | 10·34 | — | — | — | — | 16·00 | 30·84 | — | — | 30·84 |
| 1922 | 4·00 | — | — | — | — | — | 91·26 | — | — | — | — | 0·43 | 23·69 | — | — | 23·69 |
| 1923 | — | — | — | 2·00 | — | — | 96·86 | — | — | — | — | — | 98·86 | — | — | 98·86 |
| 1924 | 1·00 | — | — | 9·00 | — | — | 54·00 | — | — | — | — | — | 64·00 | — | — | 64·00 |
| 1925 | 5·05 | — | — | 7·00 | — | — | 174·17 | — | — | — | — | — | 186·22 | — | — | 186·22 |
| 1926 | 0·50 | — | — | — | — | — | 83·15 | — | — | — | — | — | 83·65 | — | — | 83·65 |
| 1927 | — | 5·75 | — | — | — | — | 148·57 | — | — | — | — | — | 148·57 | 5·75 | — | 154·32 |
| 1928 | 27·00 | — | — | — | — | — | 176·15 | — | — | — | — | — | 203·15 | — | — | 203·15 |
| 1929 | 19·50 | — | — | 14·10 | 8·75 | — | 151·86 | — | — | — | — | 1·08 | 186·54 | — | 8·75 | 195·29 |
| 1930 | 21·25 | 1·50 | 0·30 | 10·10 | 5·50 | — | 112·60 | — | — | — | — | 13·75 | 157·70 | 1·50 | 5·80 | 65·00 |
| 1931 | 0·85 | — | 1·65 | 53·75 | 2·00 | — | 0·29 | — | — | — | — | 34·00 | 88·89 | — | 3·65 | 92·54 |
| 1932 | 6·80 | — | 0·60 | 24·50 | — | — | — | — | — | — | — | — | 31·30 | — | 0·60 | 31·90 |
| 1933 | 13·00 | — | — | 0·25 | — | — | 104·14 | — | — | — | — | 40·00 | 157·39 | — | — | 157·39 |
| 1934 | 36·85 | — | — | 47·50 | 6·50 | — | 194·93 | — | — | — | — | 92·30 | 371·58 | — | 6·50 | 378·08 |
| 1935 | 24·00 | — | 1·10 | 46·50 | 2·50 | — | 232·10 | — | — | — | — | 86·04 | 388·64 | — | 3·60 | 392·24 |
| 1936 | 20·15 | — | — | 5·25 | 12·25 | — | 207·13 | — | — | — | — | 137·08 | 369·61 | — | 12·25 | 381·86 |
| 1937 | 98·17 | — | 1·90 | 45·75 | 10·00 | — | 293·10 | — | — | — | — | [c]210·90 | 647·92 | — | 11·90 | 659·82 |
| 1938 | 172·90 | 2·00 | 0·65 | 60·59 | [b]50·57 | — | 326·61 | 32·50 | — | — | — | 436·72 | 996·84 | 2·00 | 83·72 | 1,082·54 |
| 1939 | 81·20 | 2·55 | 1·25 | 49·58 | 55·25 | — | 251·49 | 189·38 | — | — | 0·14 | 310·74 | 693·01 | 2·55 | 246·02 | 941·58 |
| 1940 | 124·92 | 0·20 | 0·55 | 34·12 | 33·67 | — | 259·02 | 293·27 | — | 1·08 | 9·64 | 285·53 | 104·67 | 0·20 | 337·13 | 1,042·00 |
| 1941 | 114·45 | 0·15 | 0·67 | 47·80 | 47·63 | 0·25 | 260·54 | 262·86 | — | — | 0·34 | 302·32 | 725·36 | 0·15 | 31·50 | 1,037·00 |
| 1942 | 194·93 | 1·00 | 1·40 | 33·21 | 20·14 | 1·20 | 202·73 | 229·24 | 0·01 | 0·27 | 1·04 | 144·47 | 577·32 | 1·00 | 251·82 | 830·14 |
| 1943 | 155·04 | 1·30 | 2·40 | 40·99 | 25·94 | 22·40 | 256·02 | 212·06 | 0·15 | 0·22 | 7·56 | 174·73 | 649·58 | 1·30 | 247·96 | 898·94 |
| 1944 | 201·49 | 1·45 | 2·60 | 31·04 | 20·94 | 2·50 | 266·86 | 34·29 | 0·04 | — | 60·00 | 83·15 | 585·08 | 1·45 | 117·83 | 704·36 |
| 1945 | 133·15 | 0·15 | 5·08 | 31·70 | 19·29 | — | 233·19 | 561·62 | — | — | 25·50 | 117·33 | 515·37 | 0·15 | 611·49 | 1,127·01 |

[a]All figures recalculated from 1938 as nearly as possible to 65 per cent concentrates; for actual production of concentrates see tables for each State. [b]Northern Territory production during last six months of 1937; adjustment made in order to express production in calendar years from 1938. [c]Frogmore output recorded as wolfram allotted on the basis of 2 scheelite: 1 wolfram from 1938. [d]$WO_3$ content of wolfram-bismuth concentrates produced in N.S.W. (1949–1953) included in production of wolfram concentrates.

TUNGSTEN CONCENTRATES[a] PRODUCTION—AUSTRALIA—*continued*

| Year | Queensland | | | New South Wales | | Victoria | Tasmania | | South Australia | Western Australia | | Northern Territory | Total | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Wolfram | Bismuth Wolfram | Scheelite | Wolfram[d] | Scheelite | Wolfram | Wolfram | Scheelite | Ferberite and Wolfram | Wolfram | Scheelite | Wolfram | Wolfram | Bismuth Wolfram[a] | Scheelite | Total Concentrates |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1946 | 66·65 | — | 0·45 | 10·30 | 22·51 | — | 173·13 | 668·35 | — | — | 4·39 | 67·15 | 317·23 | — | 695·70 | 1,012·93 |
| 1947 | 64·60 | — | 7·99 | 23·90 | 17·75 | — | 221·84 | 612·72 | — | — | 9·89 | 93·17 | 403·51 | — | 648·35 | 1,051·86 |
| 1948 | 100·25 | — | 0·10 | 25·47 | 9·15 | — | 260·82 | 619·08 | — | — | 7·58 | 65·14 | 451·68 | — | 635·91 | 1,087·59 |
| 1949 | 50·00 | — | 1·70 | 7·40 | 5·00 | — | 297·12 | 832·00 | — | — | 0·57 | 52·62 | 407·14 | — | 839·27 | 1,246·41 |
| 1950 | 38·50 | — | 0·15 | 2·10 | 9·92 | — | 223·10 | 807·70 | — | — | — | 40·62 | 304·32 | — | 817·77 | 1,122·09 |
| 1951 | 153·80 | — | 3·00 | 23·34 | 8·77 | — | 406·20 | 960·00 | — | 5·02 | 0·13 | 137·20 | 725·56 | — | 971·90 | 1,697·46 |
| 1952 | 230·80 | — | 9·55 | 40·88 | 8·94 | 2·00 | 489·20 | 906·15 | — | 26·31 | 2·30 | 253·18 | 1,042·37 | — | 926·94 | 1,969·31 |
| 1953 | 192·30 | — | 2·00 | 50·22 | 37·51 | — | 555·40 | 1,063·10 | — | 2·91 | 2·55 | 256·92 | 1,057·75 | — | 1,105·16 | 2,162·91 |
| 1954 | 58·50 | — | 0·25 | 5·17 | 7·82 | — | 646·20 | 1,310·80 | — | — | 4·15 | 78·46 | 788·33 | — | 1,323·02 | 2,111·35 |
| 1955 | 78·50 | — | 0·05 | 3·14 | 8·49 | — | 598·50 | 1,458·50 | — | — | 8·37 | 124·62 | 804·76 | — | 1,475·41 | 2,280·17 |
| 1956 | 70·80 | — | 4·75 | 4·02 | 2·75 | — | 681·50 | 1,515·40 | — | — | — | 155·38 | 911·70 | — | 1,522·90 | 2,434·60 |
| 1957 | 29·20 | — | 2·10 | 0·42 | 1·89 | — | 601·60 | 1,458·50 | — | — | — | 75·38 | 706·60 | — | 1,462·49 | 2,169·09 |
| 1958 | 7·70 | — | — | — | 1·72 | — | 553·80 | 733·80 | — | — | — | 10·12 | 571·62 | — | 735·52 | 1,307·14 |
| 1959 | — | — | — | — | 0·69 | — | 992·30 | — | — | — | — | 11·68 | 1,003·98 | — | 0·69 | 1,004·67 |
| 1960 | — | — | — | — | 0·32 | — | 1,236·90 | 447·70 | — | — | — | 16·92 | 1,253·82 | — | 448·02 | 1,701·84 |
| 1961 | 2·30 | — | — | — | 0·16 | — | 1,246·00 | 1,090·00 | — | — | — | 24·94 | 1,273·24 | — | 1,090·16 | 2,363·40 |
| 1962 | 2·08 | — | — | — | — | — | 537·00 | 1,055·00 | — | — | 7·55 | 1·38 | 540·46 | — | 1,055·00 | 1,595·46 |
| 1963 | 0·28 | — | — | — | — | — | 424·00 | 1,072·00 | — | — | — | — | 424·28 | — | 1,072·00 | 1,496·28 |
| 1964 | — | — | — | — | — | — | 411·00 | 1,152·00 | — | — | 4·80 | — | 411·00 | — | 1,152·00 | 1,563·00 |
| Total (nearest ton) | 13,278 | 1,800 | 120 | 3,092 | 2,269 | 132 | 15,909 | 20,167 | 4 | 52 | 163 | 5,425 | 37,893 | 1,800 | 22,707 | 62,400 |

[a]All figures recalculated from 1938 as nearly as possible to 65 per cent concentrates; for actual production of concentrates see tables for each State. [b]Northern Territory production during last six months of 1937; adjustment made in order to express production in calendar years from 1938. [c]Frogmore output recorded as wolfram allotted on the basis of 2 scheelite: 1 wolfram from 1938. [d]$WO_3$ content of wolfram-bismuth concentrates produced in N.S.W. (1949–1953) included in production of wolfram concentrates.

## TUNGSTEN ORES AND CONCENTRATES[a]—EXPORTS—AUSTRALIA

| Year | Wolfram Ores and Cons.[b] | | Scheelite Ores and Cons.[b] | | Year | Wolfram Ores and Cons.[b] | | Scheelite Ores and Cons.[b] | |
|---|---|---|---|---|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. | | tons | £, f.o.b. | tons | £, f.o.b. |
| 1903 | 472 | 4,340 | 3 | 140 | 1933–34 | 222 | 21,747 | 13 | 920 |
| 1904 | 1,241 | 128,179 | 21 | 1,980 | 1934–35 | 330 | 42,294 | 9 | 1,305 |
| 1905 | 1,634 | 123,042 | 147 | 10,409 | 1935–36 | 378 | 47,742 | 9 | 1,311 |
| 1906 | 1,232 | 97,641 | 110 | 7,713 | 1936–37 | 369 | 58,166 | 10 | 1,943 |
| 1907 | 1,630 | 198,885 | 215 | 25,772 | 1937–38 | 952 | 284,565 | 34 | 8,805 |
| 1908 | 704 | 56,157 | 162 | 11,559 | 1938–39 | 969 | 177,361 | 116 | 25,084 |
| 1909 | 845 | 71,187 | 195 | 14,761 | 1939–40 | 794 | 156,560 | 285 | 68,387 |
| 1910 | 1,114 | 116,440 | 152 | 15,842 | 1940–41 | 598 | 114,615 | 96 | 22,332 |
| 1911 | 1,153 | 119,617 | 127 | 13,112 | 1941–42 | 516 | 120,115 | 9 | 2,451 |
| 1912 | 1,021 | 97,647 | 58 | 5,000 | 1942–43 | 184 | 75,274 | 20 | 9,213 |
| 1913 | 756 | 80,790 | 95 | 8,554 | 1943–44 | 275 | 104,714 | 4 | 1,671 |
| 1914 | n.a. | n.a. | n.a. | n.a. | 1944–45 | 591 | 242,274 | 44 | 20,111 |
| 1914–15 | 485 | 48,693 | 31 | 3,089 | 1946 | 545 | 206,149 | 592 | 193,807 |
| 1915–16 | 932 | 165,139 | 54 | 9,853 | 1947 | 345 | 137,643 | 949 | 362,962 |
| 1916–17 | 983 | 181,048 | 85 | 15,883 | 1948 | 345 | 181,090 | 979 | 255,515 |
| 1917–18 | 921 | 161,400 | 243 | 43,446 | 1949 | 273 | 123,071 | 906 | 321,818 |
| 1918–19 | 919 | 161,771 | 310 | 54,844 | | | | | |
| 1919–20 | 776 | 136,918 | 327 | 58,839 | 1950 | 183 | 105,903 | 472 | 262,404 |
| | | | | | 1951 | 344 | 516,532 | 55 | 115,831 |
| 1920–21 | 311 | 48,276 | 14 | 2,578 | 1952 | 968 | 1,704,564 | 1,020 | 1,729,869 |
| 1921–22 | 21 | 839 | 52 | 1,975 | 1953 | 1,250 | 1,640,857 | 987 | 1,481,686 |
| 1922–23 | 58 | 2,644 | — | — | 1954 | 838 | 969,500 | 1,174 | 1,910,285 |
| 1923–24 | 65 | 1,652 | — | — | | | | | |
| 1924–25 | 82 | 4,176 | — | — | 1955 | 964 | 1,201,603 | 1,344 | 2,355,818 |
| | | | | | 1956 | 824 | 965,854 | 1,388 | 2,383,710 |
| 1925–26 | 178 | 11,972 | — | — | 1957 | 653 | 539,368 | 1,387 | 1,847,666 |
| 1926–27 | 118 | 5,962 | — | — | 1958 | 442 | 165,188 | 506 | 541,586 |
| 1927–28 | 122 | 5,271 | — | — | 1959 | 993 | 463,348 | 145 | 53,670 |
| 1928–29 | 148 | 7,798 | — | — | | | | | |
| 1929–30 | 270 | 27,628 | 4 | 480 | 1960 | 913 | 615,720 | 505 | 285,015 |
| | | | | | 1961 | 1,046 | 573,017 | 940 | 446,269 |
| 1930–31 | 45 | 4,224 | 2 | 49 | 1962 | 711 | 288,984 | 450 | 187,553 |
| 1931–32 | 71 | 3,738 | 1 | 32 | 1963 | 337 | 97,840 | 739 | 152,113 |
| 1932–33 | 33 | 1,976 | — | — | 1964 | 423 | 201,986 | 1,472 | 554,553 |

[a]Figures for years prior to 1903 are not available. [b]See next table for "Tungsten ores and cons. n.e.i." recorded for years 1947 to 1953.

## TUNGSTEN ORES AND CONCENTRATES N.E.I.[a]—EXPORTS—AUSTRALIA

| Year | tons | £, f.o.b. |
|---|---|---|
| 1946–47 | 19 | 6,325 |
| 1947–48 | 99 | 14,640 |
| 1949 | 120 | 46,213 |
| 1950 | 578 | 361,502 |
| 1951 | [b]1,179 | [b]2,016,431 |
| 1952 | 21 | 38,617 |
| 1953 | 135 | 195,020 |

[a]Recorded as "Tungsten ores and cons. n.e.i." only during years 1947 to 1953. [b]Information available to the Bureau suggests that shipments classified under this item were really scheelite ores and cons.

| Year | Chillagoe District | Herberton District | Kangaroo Hills | Ollera Creek and Ingham | Bowden and Banks Island | Port Douglas District | Star River | Etheridge District | Cooktown District | Stanthorpe District | Bowen District | Charters Towers District | Eidsvold District | Miscellaneous | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | Cons. | 65% Cons. |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1894 | 65·00 | — | — | — | — | 40·00 | — | — | — | — | — | — | — | — | 105·00 | — |
| 1895 | 21·00 | — | — | — | — | 4·00 | — | — | — | — | — | — | — | — | 25·00 | — |
| 1896 | — | — | — | 3·00 | — | — | — | — | — | — | — | — | — | — | 3·00 | — |
| 1897 | 13·00 | — | — | — | — | — | — | — | — | — | — | — | — | — | 13·00 | — |
| 1898 | 68·00 | — | — | 10·00 | — | — | — | — | — | — | — | — | — | — | 78·00 | — |
| 1899 | 240·00 | — | — | 17·00 | — | 2·00 | — | — | — | — | — | — | — | — | 259·00 | — |
| 1900 | 188·00 | — | — | 0·50 | — | — | — | — | 1·00 | — | — | — | — | — | 189·50 | — |
| 1901 | 72·00 | — | — | — | — | — | — | — | — | — | — | — | — | — | 72·00 | — |
| 1902 | 55·00 | — | — | — | — | — | — | — | — | — | — | — | — | — | 55·00 | — |
| 1903 | 188·50 | — | — | 9·00 | — | — | — | — | — | — | — | — | — | — | 197·00 | — |
| 1904 | 495·00 | 987·00 | 7·00 | 42·00 | 3·00 | — | — | — | 4·00 | — | — | 0·40 | — | 0·50 | 1,538·90 | — |
| 1905 | 526·00 | 826·00 | 12·00 | 24·00 | 12·00 | — | — | — | 4·00 | — | — | — | — | 5·00 | 1,409·00 | — |
| 1906 | 432·00 | 274·00 | 18·00 | 27·00 | 12·00 | — | — | 3·00 | 2·00 | — | — | — | — | — | 768·00 | — |
| 1907 | 409·00 | 134·00 | 9·00 | 16·00 | 24·95 | — | — | 15·00 | 3·50 | 1·00 | — | — | — | 0·20 | 615·20 | — |
| 1908 | 217·00 | 164·00 | 12·00 | 12·00 | 11·25 | — | 1·00 | 2·00 | 0·75 | 1·00 | — | — | — | — | 421·00 | — |
| 1909 | 355·00 | 208·00 | 10·00 | 17·75 | 4·25 | — | 6·50 | 3·00 | 1·50 | 0·02 | — | — | — | — | 606·25 | — |
| 1910 | 497·75 | 291·00 | 23·00 | 5·75 | 3·65 | — | 30·50 | 1·00 | 1·70 | — | 1·25 | — | — | 0·25 | 855·75 | — |
| 1911 | 215·75 | 293·00 | 9·50 | 5·25 | 0·50 | — | 8·50 | 0·65 | 1·20 | — | 5·00 | — | — | — | 539·40 | — |
| 1912 | 173·50 | 432·00 | 4·50 | 8·25 | 0·85 | — | 2·75 | — | 1·90 | — | 2·75 | — | — | — | 626·50 | — |
| 1913 | 103·00 | 232·00 | 12·50 | 2·25 | 0·50 | — | 8·50 | — | — | — | — | — | — | — | 358·75 | — |
| 1914 | 92·25 | 128·00 | 9·00 | 2·75 | — | — | 4·00 | 0·15 | — | — | 4·75 | — | — | — | 240·90 | — |
| 1915 | 196·25 | 198·00 | 5·50 | 9·00 | 0·05 | — | 6·50 | — | — | 1·00 | — | — | — | 0·05 | 416·30 | — |
| 1916 | 110·75 | 227·00 | 1·50 | 9·50 | 2·10 | — | 3·00 | 1·50 | 0·35 | 10·50 | 3·75 | — | — | 0·05 | 370·00 | — |
| 1917 | 125·00 | 201·00 | 14·00 | 4·50 | — | — | — | — | — | 6·75 | — | 0·30 | — | 1·25 | 352·80 | — |
| 1918 | 121·50 | 107·50 | — | 4·00 | — | 14·50 | — | 0·30 | — | 0·65 | — | — | — | 0·25 | 248·70 | — |
| 1919 | 89·00 | 124·75 | 1·25 | 4·00 | — | 8·50 | — | 0·40 | 0·05 | — | — | 0·25 | — | 0·33 | 228·50 | — |
| 1920 | 51·00 | 26·00 | — | 1·90 | — | 1·75 | — | — | — | — | — | — | — | — | 80·65 | — |
| 1921 | 4·50 | — | — | — | — | — | — | — | — | — | — | — | — | — | 4·50 | — |
| 1922 | — | 4·00 | — | — | — | — | — | — | — | — | — | — | — | — | 4·00 | — |
| 1923 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1924 | 1·00 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1·00 | — |

[a]Including small amount (less than 1 ton) of tin-wolfram. [b]Excluding tin-wolfram concentrates. [c]Excluding tin-wolfram concentrates and tin from slag and tin-lead from slag. [d] Including 0·15 tons from unspecified locality.

TUNGSTEN—PRODUCTION OF WOLFRAM CONCENTRATES—QUEENSLAND—*continued*

| Year | Chillagoe District | Herberton District | Kangaroo Hills | Ollera Creek and Ingham | Bowden and Banks Island | Port Douglas District | Star River | Etheridge District | Cooktown District | Stanthorpe District | Bowen District | Charters Towers District | Eidsvold District | Miscellaneous | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | Cons. | 65% Cons. |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1925 | 4·75 | 0·30 | — | — | — | — | — | — | — | — | — | — | — | — | 5·05 | — |
| 1926 | 0·50 | — | — | — | — | — | — | — | — | — | — | — | — | — | 0·50 | — |
| 1927 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1928 | 27·00 | — | — | — | — | — | — | — | — | — | — | — | — | — | 27·00 | — |
| 1929 | 7·75 | 11·75 | — | — | — | — | — | — | — | — | — | — | — | — | 19·50 | — |
| 1930 | 6·00 | 15·25 | — | — | — | — | — | — | — | — | — | — | — | — | 21·25 | — |
| 1931 | — | 0·85 | — | — | — | — | — | — | — | — | — | — | — | — | 0·85 | — |
| 1932 | 6·00 | 0·80 | — | — | — | — | — | — | — | — | — | — | — | — | 6·80 | — |
| 1933 | 13·00 | — | — | — | — | — | — | — | — | — | — | — | — | — | 13·00 | — |
| 1934 | 30·00 | 6·50 | — | — | — | — | — | — | — | — | — | — | — | — | 36·85 | — |
| 1935 | 22·30 | 1·75 | — | — | — | — | — | — | — | — | — | 0·35 | — | — | 24·00 | — |
| 1936 | 19·00 | 0·30 | — | — | — | — | — | — | — | — | — | — | 0·85 | — | 20·15 | — |
| 1937 | 23·66 | 68·00 | 2·50 | 0·10 | — | 0·55 | — | — | — | 0·01 | — | 1·75 | 1·50 | — | 98·17 | — |
| 1938 | 54·50 | 87·00 | 7·00 | — | } | 18·00 | — | — | — | 0·05 | — | 1·00 | 1·20 | — | 168·75 | 174·90 |
| 1939 | 42·25 | 25·00 | 3·10 | 1·40 | 17·60 | 7·00 | — | — | — | 0·20 | — | — | 0·30 | — | 79·25 | 83·75 |
| 1940 | 61·67 | 31·50 | 4·80 | 0·80 | } | 4·35 | — | 0·30 | — | 0·20 | — | — | 1·00 | — | 121·92 | 125·12 |
| 1941 | 37·85 | [a]45·75 | 3·90 | 0·20 | 20·35 | 4·15 | — | — | — | — | — | — | — | — | 111·70 | 114·60 |
| 1942 | 58·50 | [a]79·40 | 11·80 | 2·25 | 16·60 | 7·45 | — | 0·10 | — | — | — | — | — | 14·15 | 190·25 | 195·93 |
| 1943 | [a]74·00 | 52·33 | 6·60 | 0·45 | 11·15 | 5·25 | — | 0·05 | — | 0·25 | 1·31 | — | — | 0·50 | 151·35 | 156·37 |
| 1944 | [a]122·50 | 54·30 | 6·90 | — | 3·25 | 6·20 | — | 0·05 | — | 0·10 | — | — | — | 3·35 | 196·65 | 202·94 |
| 1945 | 87·25 | 29·50 | 6·30 | — | 0·20 | — | — | — | — | — | — | — | 4·80 | 1·05 | 129·95 | 133·30 |
| 1946 | 31·00 | 23·90 | 4·90 | 5·10 | — | — | — | — | — | — | — | — | — | — | 65·05 | [d]66·65 |
| 1947 | 34·85 | 24·35 | 1·75 | 1·60 | — | — | — | — | — | — | — | — | — | 0·15 | 63·05 | 64·60 |
| 1948 | 38·55 | 54·55 | 2·50 | 0·45 | 0·10 | — | — | — | — | — | — | — | — | 2·70 | 97·85 | 100·25 |
| | | | | | | | 71·25 | | | | | | | | | |
| | | | | | | | Mareeba District[e] | | | | | | | | | |
| 1949 | 10·60 | 9·90 | — | 1·40 | 0·25 | 0·65 | 26·60 | — | — | — | — | — | — | — | 49·40 | 50·00 |

[a]Including small amount (less than 1 ton) of tin-wolfram. [b]Excluding tin-wolfram concentrates. [c]Excluding tin-wolfram concentrates and tin from slag and tin-lead from slag. [d] Including 0·15 tons from unspecified locality.

TUNGSTEN—PRODUCTION OF WOLFRAM CONCENTRATES—QUEENSLAND—*continued*

| Year | Chillagoe District | Herberton District | Kangaroo Hills | Ollera Creek and Ingham | Bowden and Banks Island | Port Douglas District | Mareeba District | Etheridge District | Cooktown District | Stanthorpe District | Bowen District | Charters Towers District | Eidsvold District | Miscellaneous | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | Cons. | 65% Cons. |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1950 | 7·25 | 5·05 | 2·15 | 0·95 | — | 0·15 | 22·55 | — | † | — | — | — | — | — | 38·10 | 38·50 |
| 1951 | 7·65 | [b]64·80 | 6·45 | 0·75 | 6·00 | 1·70 | 63·20 | — | 0·05 | 3·70 | — | 1·30 | — | 2·20 | 157·80 | 153·80 |
| 1952 | 9·50 | [c]95·60 | 3·30 | 0·30 | 18·65 | 2·60 | 86·00 | 3·25 | 0·15 | 1·45 | 4·10 | 1·20 | — | 4·25 | 230·35 | 230·80 |
| 1953 | 30·05 | [b]49·40 | 1·80 | 0·10 | 3·90 | — | 99·20 | 2·15 | 0·10 | 2·80 | 0·70 | — | — | 1·85 | 192·05 | 192·30 |
| 1954 | 8·15 | [b]11·00 | 0·05 | 0·20 | 0·20 | — | 33·85 | 0·80 | — | 3·70 | — | — | — | 0·10 | 58·05 | 58·50 |
| 1955 | 12·75 | [b]28·90 | 0·95 | 0·15 | 0·60 | — | 31·30 | — | 4·00 | 0·15 | 0·20 | — | — | — | 79·00 | 78·50 |
| 1956 | 15·55 | 11·00 | 0·20 | — | 0·60 | — | 39·15 | 0·15 | 2·10 | 0·90 | — | — | — | — | 69·65 | 70·80 |
| 1957 | 5·90 | 0·75 | 0·50 | — | — | — | 22·40 | — | — | — | — | — | — | — | 29·55 | 29·20 |
| 1958 | — | — | — | — | — | — | 7·60 | — | — | — | — | — | — | — | 7·60 | 7·70 |
| 1959-60 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1961 | — | — | — | — | — | — | 2·25 | — | — | — | — | — | — | — | 2·25 | 2·30 |
| 1962 | — | — | — | — | — | — | 2·25 | — | — | — | — | — | — | — | 2·25 | 2·08 |
| 1963 | — | — | — | — | — | — | — | — | — | — | — | — | — | 0·30 | 0·30 | 0·18 |
| 1964 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 6,035·53 | 5,746·73 | 226·20 | 251·60 | 174·55 | 128·80 | 343·35 | 33·85 | 28·35 | 34·48 | 23·81 | 6·55 | 9·65 | 38·48 | 13,247·84 | |

[a]Including small amount (less than 1 ton) of tin-wolfram. [b]Excluding tin-wolfram concentrates. [c]Excluding tin-wolfram concentrates and tin from slag and tin-lead from slag.

## TUNGSTEN—PRODUCTION OF SCHEELITE CONCENTRATES—QUEENSLAND

| Year | Chillagoe District | Herberton District | Etheridge District | Cloncurry District | Kangaroo Hills District | Miscellaneous | Total | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Cons. | 65% Cons. |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1904 | — | 1·15 | — | — | — | — | 1·15 | |
| 1905 | 4·00 | — | — | — | — | — | 4·00 | |
| 1906 | 4·50 | — | — | — | — | — | 4·50 | |
| 1907 | 2·25 | — | — | — | — | — | 2·25 | |
| 1908 | 1·45 | 0·25 | — | — | — | — | 1·70 | |
| 1909 | — | — | — | — | — | — | — | |
| 1910 | 1·75 | 1·50 | — | — | — | — | 3·25 | |
| 1911 | 5·00 | — | — | — | — | — | 5·00 | |
| 1912 | — | — | — | — | — | — | — | |
| 1913 | — | — | 0·10 | — | — | — | 0·10 | |
| 1914 | — | — | — | — | — | — | — | |
| 1915 | 2·00 | — | — | — | — | — | 2·00 | |
| 1916 | — | — | — | — | — | — | — | n.a. |
| 1917 | [a]1·00 | 9·00 | — | — | — | — | 10·00 | |
| 1918 | [a]0·90 | 15·50 | 1·75 | — | — | — | 18·15 | |
| 1919 | 1·50 | 6·75 | 4·50 | — | — | — | 12·75 | |
| 1920 | 0·02 | 2·00 | 0·40 | — | — | — | 2·42 | |
| 1921-29 | — | — | — | — | — | — | — | |
| 1930 | 0·30 | — | — | — | — | — | 0·30 | |
| 1931 | — | 0·15 | — | 1·50 | — | — | 1·65 | |
| 1932 | — | — | — | 0·60 | — | — | 0·60 | |
| 1933 | — | — | — | — | — | — | — | |
| 1934 | — | — | — | — | — | — | — | |
| 1935 | 0·10 | — | — | 1·00 | — | — | 1·10 | |
| 1936 | — | — | — | — | — | — | — | |
| 1937 | — | — | 0·50 | 0·50 | 0·65 | [b]0·25 | 1·90 | |
| 1938 | — | — | — | 0·10 | 0·50 | [c]0·05 | 0·65 | 0·65 |
| 1939 | 0·10 | 1·00 | — | — | 0·10 | [c]0·05 | 1·25 | 1·25 |

[a]Wolfram-Scheelite. [b]Gladstone District. [c]Ingham District. [d]Established 1/1/1949 from part of Chillagoe District and part of Herberton District. [f]Stanthorpe.

TUNGSTEN—PRODUCTION OF SCHEELITE CONCENTRATES—QUEENSLAND—*continued*

| Year | Chillagoe District | Herberton District | Etheridge District | Cloncurry District | Kangaroo Hills District | Miscellaneous | Total | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Cons. | 65% Cons. |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1940 | — | — | 0·35 | — | 0·20 | — | 0·55 | 0·55 |
| 1941 | — | — | — | — | — | [c]0·67 | 0·67 | 0·67 |
| 1942 | 0·70 | 0·70 | — | — | — | — | 1·40 | 1·40 |
| 1943 | — | 1·25 | — | — | — | [b]1·15 | 2·40 | 2·40 |
| 1944 | — | 0·90 | — | 1·40 | 0·30 | — | 2·60 | 2·60 |
| 1945 | — | 5·00 | — | — | 0·08 | — | 5·08 | 5·08 |
| 1946 | — | 0·45 | — | — | — | — | 0·45 | 0·45 |
| 1947 | — | 7·80 | — | — | — | — | 7·80 | 7·99 |
| 1948 | — | — | — | — | 0·10 | — | 0·10 | 0·10 |
| | | | | | 1·85 | | | |
| | | | | | Mareeba District [d] | | | |
| 1949 | — | — | — | — | 1·70 | — | 1·70 | 1·70 |
| 1950 | — | — | — | — | 0·15 | — | 0·15 | 0·15 |
| 1951 | — | 0·075 | 0·20 | 1·20 | 1·10 | [f]0·40 | 3·00 | 3·00 |
| 1952 | 0·40 | — | 0·75 | 6·30 | 2·00 | [c]0·10 | 9·55 | 9·55 |
| 1953 | — | — | 0·05 | 0·15 | 1·80 | — | 2·00 | 2·00 |
| 1954 | — | — | — | — | 0·25 | — | 0·25 | 0·25 |
| 1955 | — | — | — | — | — | [c]0·05 | 0·05 | 0·05 |
| 1956 | — | — | — | — | 4·75 | — | 4·75 | 4·75 |
| 1957 | — | — | — | — | 2·10 | — | 2·10 | 2·10 |
| 1958-64 | — | — | — | — | — | — | — | — |
| Total | 25·97 | 23·48 | 8·60 | 12·75 | 13·85 | 2·72 | 119·27 | |

[a]Wolfram-Scheelite. [b]Gladstone District. [c]Ingham District. [d]Established 1/1/49 from part of Chillagoe District and part of Herberton District. [f]Stanthorpe.

## TUNGSTEN—PRODUCTION OF WOLFRAM-BISMUTH CONCENTRATES —QUEENSLAND

| Year | Chillagoe District | Herberton District | Ollera Creek | Percy-ville | Kangaroo Hills | Total | |
|---|---|---|---|---|---|---|---|
| | | | | | | Cons. | 65% Cons. |
| | tons | tons | tons | tons | tons | tons | tons |
| 1901 | 17·55 | — | — | — | — | 17·55 | |
| 1902 | 3·00 | — | — | — | — | 3·00 | |
| 1903 | 14·00 | — | — | — | — | 14·00 | |
| 1904 | 3·30 | — | 0·55 | — | — | 3·85 | |
| 1905 | 20·00 | 1·50 | — | — | — | 21·50 | |
| 1906 | 23·00 | — | — | — | — | 23·00 | |
| 1907 | 10·50 | — | — | — | — | 10·50 | |
| 1908 | 80·00 | — | — | — | — | 80·00 | |
| 1909 | 64·00 | — | — | — | — | 64·00 | |
| 1910 | 18·00 | 16·00 | — | — | — | 34·00 | |
| 1911 | 97·50 | 31·00 | 0·50 | — | — | 129·00 | |
| 1912 | 178·50 | 13·00 | — | — | — | 191·50 | |
| 1913 | 181·00 | 0·15 | 0·15 | 0·45 | — | 181·75 | n.a. |
| 1914 | 190·00 | 3·00 | 0·05 | — | — | 193·05 | |
| 1915 | 237·50 | 9·00 | 0·40 | — | — | 246·90 | |
| 1916 | 126·00 | 8·00 | 2·50 | — | — | 136·50 | |
| 1917 | 121·75 | 8·00 | 1·50 | — | — | 131·25 | |
| 1918 | 111·75 | 1·50 | 1·00 | — | 0·05 | 114·30 | |
| 1919 | 133·75 | 5·50 | 0·65 | — | — | 139·90 | |
| 1920 | 48·25 | 0·35 | 0·45 | — | — | 49·05 | |
| 1921–26 | — | — | — | — | — | — | |
| 1927 | 5·75 | — | — | — | — | 5·75 | |
| 1928–29 | — | — | — | — | — | — | |
| 1930 | 1·50 | — | — | — | — | 1·50 | |
| 1931–37 | — | — | — | — | — | — | |
| 1938 | 1·00 | 1·00 | — | — | — | 2·00 | |
| 1939 | 0·75 | 1·80 | — | — | — | 2·55 | |
| 1940 | 0·10 | 0·10 | — | — | — | 0·20 | |
| 1941 | 0·15 | — | — | — | — | 0·15 | |
| 1942 | 1·00 | — | — | — | — | 1·00 | *a* |
| 1943 | 1·30 | — | — | — | — | 1·30 | |
| 1944 | 1·45 | — | — | — | — | 1·45 | |
| 1945 | 0·15 | — | — | — | — | 0·15 | |
| 1946–64 | — | — | — | — | — | — | |
| Total | 1,692·50 | 99·90 | 7·75 | 0·45 | 0·05 | 1,800·65 | |

[a]Included in production of Wolfram concentrates.

| Year | Deep-water and Torring-ton (Wolfram) | Emma-ville (Wolf-ram) | Glen Innes (Wolf-ram) | Tenter-field (Wolf-ram) | Wagga (Wolf-ram) | Wymah (Wolf-ram) | Frog-more (Wolfram and Schee-lite) | Miscel-laneous (Wolf-ram) | Total Wolfram | | Hillgrove (Scheelite) | Others (Schee-lite) | Total Scheelite | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Cons. | 65% Cons.[a] | | | Cons. | 65% Cons.[a] |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1898 | 9·00 | | — | — | — | — | — | — | 9·00 | — | 1·25 | — | 1·25 | — |
| 1899 | [e]25·00 | | — | — | — | — | — | — | [e]25·00 | — | 70·00 | — | 70·00 | — |
| 1900 | 5·25 | — | — | — | — | — | — | — | 5·25 | — | 45·30 | — | 45·30 | — |
| 1901 | — | — | — | — | — | — | — | — | [e]6·50 | — | — | — | — | — |
| 1902 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1903 | 9·00 | — | — | — | — | — | — | — | 9·00 | — | 3·00 | — | 3·00 | — |
| 1904 | — | — | — | — | — | — | — | — | 89·05 | — | 15·50 | — | 15·50 | — |
| 1905 | — | — | — | — | — | — | — | — | 86·50 | — | 138·30 | — | 138·30 | — |
| 1906 | — | — | — | — | — | — | — | — | 132·15 | — | 109·45 | — | 109·45 | — |
| 1907 | [e]139·00 | — | — | — | — | — | — | 3·10 | 206·75 | — | 192·85 | 3·15 | 196·00 | — |
| 1908 | 40·00 | 3·00 | — | — | — | — | — | — | 86·15 | — | 153·70 | — | 153·70 | — |
| 1909 | 118·00 | 5·00 | — | — | — | — | — | — | 127·00 | — | 193·30 | — | 193·30 | — |
| 1910 | 140·00 | — | [e]7·00 | — | 15(ore) | — | — | — | 165·67 | — | 149·35 | 1·25 | 150·60 | — |
| 1911 | [e]250·00 | — | 2·50 | — | — | — | — | — | 283·10 | — | 108·45 | — | 108·45 | — |
| 1912 | [e]150·00 | — | 3·50 | — | — | — | — | — | 171·80 | — | 55·90 | — | 55·90 | — |
| 1913 | [e]110·00 | — | — | 10·00 | — | — | — | [e]0·50 | 125·75 | — | 44·05 | — | 44·05 | — |
| 1914 | [e]130·00 | — | — | — | — | — | 8·50 | — | 139·45 | — | 57·40 | — | 57·40 | — |
| 1915 | 107·00 | — | — | — | — | — | 14·25 | — | 50·40 | — | 32·60 | — | 32·60 | — |
| 1916 | 122·00 | — | — | — | — | — | 25·00 | — | 183·31 | — | 80·70 | — | 80·70 | — |
| 1917 | 87·00 | — | — | 4·26 | — | — | 32·30 | [e]7·00 | 118·23 | — | 124·50 | 2·00 | 126·50 | — |
| 1918 | 104·85 | — | 0·80 | 2·00 | — | [e]14·00 | 40·80 | 8·64 | 136·41 | — | 117·12 | — | 117·12 | — |
| 1919 | 107·55 | — | — | — | [e]6·00 | [e]12·60 | 5·50 | 4·65 | 135·00 | — | 80·20 | — | 80·20 | — |
| 1920 | 6·00 | — | — | 1·00 | — | — | 6·65 | — | 14·00 | — | 21·00 | — | 21·00 | — |
| 1921–22 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1923 | 2·00 | — | — | — | — | — | — | — | 2·00 | — | — | — | — | — |
| 1924 | — | — | — | — | — | — | — | 9·00 | 9·00 | — | — | — | — | — |
| 1925 | — | — | 7·00 | — | — | — | — | — | 7·00 | — | — | — | — | — |
| 1926–28 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1929 | 12·45 | 1·55 | — | — | [e]0·10 | — | 0·75 | — | 14·10 | — | 8·68 | — | 8·68 | — |
| 1930 | 5·93 | 4·08 | — | — | 0·10 | — | — | — | 10·10 | — | 5·50 | — | 5·50 | — |
| 1931 | 15·15 | 0·55 | — | — | — | — | 38·00 | — | 53·75 | — | 2·00 | — | 2·00 | — |
| 1932 | 12·13 | — | — | — | — | — | 12·35 | — | 24·50 | — | — | — | — | — |
| 1933 | 0·25 | — | — | — | — | — | — | — | 0·25 | — | — | — | — | — |
| 1934 | 2·54 | — | — | — | — | — | 45·00 | — | 47·50 | — | 6·50 | — | 6·50 | — |

[a]Included $WO_3$ content of wolfram-bismuth cons. 0·24 in 1949, 0·29 in 1950, 1·06 in 1951, 0·95 in 1952 and 0·80 in 1953. Wolfram-scheelite cons. produced at Frogmore allocated as 2 scheelite 1 wolfram. [b]Total Wolfram and total Scheelite columns not necessarily in agreement with sum of the totals of the other columns.

TUNGSTEN—PRODUCTION OF WOLFRAM-SCHEELITE CONCENTRATES—NEW SOUTH WALES—*continued*

| Year | Deep-water and Torrington (Wolfram) | Emmaville (Wolfram) | Glen Innes (Wolfram) | Tenterfield (Wolfram) | Wagga (Wolfram) | Wymah (Wolfram) | Frogmore (Wolfram and Scheelite) | Miscellaneous (Wolfram) | Total Wolfram | | Hillgrove (Scheelite) | Others (Scheelite) | Total Scheelite | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Cons. | 65% Cons.[a] | | | Cons. | 65% Cons.[a] |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1935 | 0·50 | — | — | — | — | — | 46·00 | — | 46·50 | — | 2·50 | — | 2·50 | — |
| 1936 | 1·00 | 0·78 | — | — | 0·15 | — | — | 3·25 | 5·25 | — | 12·25 | — | 12·25 | — |
| 1937 | 22·01 | 5·14 | 0·60 | 0·30 | — | 0·66 | 9·25 | 8·45 | 45·75 | — | 9·75 | 0·35 | 10·10 | — |
| 1938 | 29·10 | 4·50 | — | — | — | — | 54·20 | 6·05 | 93·85 | 60·59 | 9·08 | 0·15 | 9·23 | 50·57 |
| 1939 | 24·50 | 1·50 | — | — | — | — | 53·00 | 3·65 | 82·65 | 49·58 | 14·60 | — | 14·60 | 55·25 |
| 1940 | 24·50 | 3·00 | — | — | — | — | 16·00 | 0·40 | 43·90 | 34·12 | 19·60 | — | 19·60 | 33·67 |
| 1941 | 16·13 | 0·50 | — | — | — | 0·41 | 36·00 | 5·66 | 58·20 | 47·80 | 20·33 | 0·50 | 20·83 | 47·63 |
| 1942 | 19·50 | 2·35 | 0·80 | — | 0·10 | 0·06 | 8·00 | 7·10 | 38·00 | 33·21 | 13·00 | — | 13·00 | 20·14 |
| 1943 | 25·21 | 3·25 | 1·70 | — | 1·93 | 0·03 | 3·35 | 6·93 | 42·40 | 40·99 | 21·68 | 0·80 | 22·48 | 25·94 |
| 1944 | 26·39 | 1·70 | — | — | 2·14 | — | — | 0·06 | 30·20 | 31·04 | 17·49 | 0·66 | 18·15 | 20·94 |
| 1945 | 27·95 | 0·45 | — | — | 1·45 | — | — | 1·09 | 30·94 | 31·70 | 16·17 | 0·56 | 16·73 | 19·29 |
| 1946 | 7·70 | 0·90 | — | — | 1·11 | — | — | 0·33 | 10·05 | 10·30 | 19·12 | 0·41 | 19·53 | 22·51 |
| 1947 | 16·69 | 5·46 | 0·38 | — | 0·10 | — | — | 0·72 | 23·33 | 23·90 | 15·38 | — | 15·38 | 17·75 |
| 1948 | 16·05 | 7·00 | 0·68 | — | 0·04 | — | — | 1·66 | 24·75 | 25·47 | 7·25 | 0·68 | 7·93 | 9·15 |
| 1949 | 2·65 | 2·25 | 1·50 | 0·30 | 0·25 | — | — | 0·05 | 7·00 | 7·40 | 4·40 | — | 4·40 | 5·00 |
| 1950 | 1·00 | 0·19 | 0·15 | — | 0·18 | — | — | 0·14 | 1·66 | 2·10 | 6·64 | 2·10 | 8·74 | 9·92 |
| 1951 | 8·54 | 3·09 | 11·79 | 0·04 | 0·83 | 0·40 | — | 1·68 | 26·37 | 23·34 | 3·61 | 4·34 | 7·95 | 8·77 |
| 1952 | 37·61 | 2·11 | 2·89 | 0·32 | 1·99 | 0·61 | — | 1·82 | 47·35 | 40·88 | 3·92 | 4·47 | 8·39 | 8·94 |
| 1953 | 30·07 | 0·82 | 0·69 | 1·07 | 2·15 | 0·43 | 44·00 | 2·30 | 81·53 | 50·22 | 4·41 | 1·34 | 5·75 | 37·51 |
| 1954 | 1·61 | 1·01 | 0·14 | — | 0·09 | — | 5·00 | 0·38 | 8·23 | 5·17 | 2·95 | 0·64 | 3·59 | 7·82 |
| 1955 | 0·70 | 0·60 | — | 0·04 | 0·01 | — | 5·26 | 0·35 | 6·96 | 3·14 | 3·65 | 0·19 | 3·84 | 8·49 |
| 1956 | 3·19 | — | — | — | 0·27 | — | — | 0·47 | 3·93 | 4·02 | 2·02 | 0·31 | 2·33 | 2·75 |
| 1957 | 0·32 | — | — | — | — | — | — | 0·13 | 0·45 | 0·42 | 1·63 | — | 1·63 | 1·89 |
| 1958 | — | — | — | — | — | — | — | — | — | — | 1·51 | — | 1·51 | 1·72 |
| 1959 | — | — | — | — | — | — | — | — | — | — | 0·61 | — | 0·61 | 0·69 |
| 1960 | — | — | — | — | — | — | — | — | — | — | 0·19 | 0·10 | 0·29 | 0·32 |
| 1961 | — | — | — | — | — | — | — | — | — | — | — | 0·17 | 0·17 | 0·16 |
| 1962–64 | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | [i]2,053·02 | [i]60·78 | [i]42·12 | [i]19·33 | [i]33·99 | 29·20 | 509·16 | 85·56 | [b]3,233·01 | | 2,050·43 | 24·17 | [b]2,074·60 | |

[a]Included $WO_3$ content of wolfram-bismuth cons. 0·24 in 1949, 0·29 in 1950, 1·06 in 1951, 0·95 in 1952 and 0·80 in 1953. Wolfram-scheelite cons. produced at Frogmore allocated as 2 scheelite 1 wolfram. [b]Total Wolfram and total Scheelite columns not necessarily in agreement with sum of the totals of the other columns.

## TUNGSTEN—PRODUCTION OF WOLFRAM CONCENTRATES—VICTORIA

| Year | Mount Murphy | Bendoc | Koetong | Marys-ville | Womobi | Miscel-laneous | Total |
|---|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons | tons |
| 1908 | 3·00 | — | — | — | — | — | 3·00 |
| 1909 | 14·00 | — | — | — | — | — | 14·00 |
| 1910 | 18·50 | 0·50 | — | [e]0·50 | — | 0·10 | [e]19·60 |
| 1911 | 17·25 | 0·80 | — | — | — | — | 18·05 |
| 1912 | 5·05 | [e]1·20 | — | — | — | — | [e]6·25 |
| 1913 | 0·60 | — | — | — | — | 0·15 | 0·75 |
| 1914 | — | — | — | — | — | — | — |
| 1915 | 5·00 | 0·20 | 0·25 | — | — | — | 5·45 |
| 1916 | — | 0·60 | — | — | — | — | 0·60 |
| 1917 | 20·25 | — | 2·35 | — | — | 0·08 | 22·68 |
| 1918 | 1·10 | 0·15 | 0·35 | 2·50 | — | 0·20 | 4·30 |
| 1919 | — | — | — | 1·25 | 0·45 | 0·45 | 2·15 |
| 1920 | 3·30 | — | — | — | — | 4·00 | 7·30 |
| 1921–40 | — | — | — | — | — | — | — |
| 1941 | — | 0·25 | — | — | — | — | 0·25 |
| 1942 | — | — | — | — | 1·90 | 0·22 | 2·12 |
| 1943 | — | — | — | 3·20 | 9·60 | 1·30 | 14·10 |
| 1944 | 1·00 | — | — | — | 2·00 | — | 3·00 |
| 1945–51 | — | — | — | — | — | — | — |
| 1952 | — | — | — | — | — | 2·00 | 2·00 |
| 1953–64 | — | — | — | — | — | — | — |
| Total | 89·05 | 3·70 | 2·95 | 7·45 | 13·95 | 8·50 | 125·60 |

TUNGSTEN—PRODUCTION OF WOLFRAM—FERBERITE CONCENTRATES—SOUTH AUSTRALIA

| Year | Callawonga Creek | Langton Island | Total |
|---|---|---|---|
| | Ferberite | Wolfram | |
| | tons | tons | tons |
| 1911 | 2·00 | — | 2·00 |
| 1912 | 0·20 | — | 0·20 |
| 1913 | 0·10 | — | 0·10 |
| 1914 | 0·30 | — | 0·30 |
| 1915 | 0·30 | — | 0·30 |
| 1916 | 0·20 | — | 0·20 |
| 1917 | 0·20 | — | 0·20 |
| 1918–41 | — | — | — |
| 1942 | — | 0·01 | 0·01 |
| 1943 | — | 0·15 | 0·15 |
| 1944 | — | 0·04 | 0·04 |
| 1945–64 | — | — | — |
| Total | 3·30 | 0·20 | 3·50 |

## TUNGSTEN—PRODUCTION OF WOLFRAM-SCHEELITE CONCENTRATES—TASMANIA

| Year | Avoca District | | Miscellaneous East Coast | Moina District | | | | | Total Wolfram | | Total Scheelite [d] | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Storey's Creek | Aberfoyle Tin Mine | | S. & M. Mine[a] | Squib Mine | All Nations Mine | Iris Mine | Miscellaneous | Cons. | 65% Cons. | Cons. | 65% Cons. | Cons. | 65% Cons. |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1899 | 3·50 | — | — | — | — | — | — | — | 3·50 | — | — | — | 3·50 | |
| 1900 | 53·75 | — | — | — | — | — | — | — | 53·75 | — | — | — | 53·75 | |
| 1901 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| 1902 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| 1903 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| 1904 | 13·50 | — | — | 2·00 | — | — | — | — | 15·50 | — | — | — | 15·50 | |
| 1905 | 23·95 | — | — | 8·30 | — | — | — | — | 32·25 | — | — | — | 32·25 | |
| 1906 | 18·65 | — | — | 1·00 | — | — | — | — | 19·65 | — | — | — | 19·65 | |
| 1907 | 24·60 | — | — | 15·25 | — | 1·00 | — | — | 40·85 | — | — | — | 40·85 | |
| 1908 | 3·93 | — | — | 0·90 | — | — | — | — | 4·83 | — | — | — | 4·83 | |
| 1909 | 22·30 | — | — | 6·05 | — | — | — | — | 28·35 | — | — | — | 28·35 | |
| 1910 | 46·35 | — | — | 20·65 | — | 0·35 | — | — | 67·35 | — | — | — | 67·35 | |
| 1911 | 38·15 | — | — | 22·49 | — | 9·32 | — | — | 69·96 | — | — | — | 69·96 | |
| 1912 | 34·20 | — | — | 22·84 | 1·60 | 4·05 | 3·80 | — | 66·49 | — | — | — | 66·49 | |
| 1913 | 31·30 | — | — | 28·75 | 5·10 | — | 2·92 | — | 68·07 | — | — | — | 68·07 | |
| 1914 | 14·05 | — | — | [e]30·00 | [e]1·80 | — | [e]1·00 | — | 46·87 | — | — | — | 46·87 | |
| 1915 | 49·63 | — | — | 35·65 | 5·46 | 3·25 | 0·70 | — | 94·69 | — | — | — | 94·69 | |
| 1916 | 57·62 | — | — | 33·15 | 6·60 | 5·60 | 2·25 | 1·05 | 106·27 | — | — | — | 106·27 | |
| 1917 | 121·96 | — | 3·60 | 36·50 | 5·20 | 3·45 | 0·83 | 0·65 | 172·19 | — | 69·00 | — | 241·19 | |
| 1918 | 115·21 | — | — | 30·66 | 6·55 | 2·21 | 0·74 | — | 155·36 | — | 216·00 | — | 371·36 | n.a. |
| 1919 | 85·64 | — | — | 23·40 | 7·30 | 1·45 | 0·25 | 2·87 | 120·91 | — | 199·00 | — | 319·91 | |
| 1920 | 67·55 | — | — | 0·40 | 2·73 | 0·21 | — | — | 70·89 | — | 105·09 | — | 175·98 | |
| 1921 | 10·05 | — | — | 0·29 | — | — | — | — | 10·34 | — | — | — | 10·34 | |
| 1922 | 19·13 | — | — | 0·13 | — | — | — | — | 19·26 | — | — | — | 19·26 | |
| 1923 | 96·86 | — | — | — | — | — | — | — | 96·86 | — | — | — | 96·86 | |
| 1924 | 54·00 | — | — | — | — | — | — | — | 54·00 | — | — | — | 54·00 | |
| 1925 | 170·20 | — | — | 3·71 | — | — | — | 0·26 | 174·17 | — | — | — | 174·17 | |
| 1926 | 88·00 | — | — | — | — | — | — | — | 83·15 | — | — | — | 83·15 | |
| 1927 | 148·00 | — | — | — | — | — | — | 0·56 | 148·57 | — | — | — | 148·57 | |
| 1928 | 176·15 | — | — | — | — | — | — | — | 176·15 | — | — | — | 176·15 | |
| 1929 | 151·35 | — | — | — | — | — | — | 0·51 | 151·86 | — | — | — | 151·86 | |
| 1930 | 112·50 | — | — | — | — | — | — | — | 112·60 | — | — | — | 112·60 | |
| 1931 | — | — | — | — | — | — | — | — | 0·29 | — | — | — | 0·29 | |
| 1932 | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| 1933 | 90·05 | 14·09 | — | — | — | — | — | — | 104·14 | — | — | — | 104·14 | |

[a] Became Moina Tungsten-tin N.L. in 1953. [b] 0·09 from Heemskirk. [c] 0·12 from Balfour. [d] From King Island.

| Year | Avoca District | | Miscellaneous East Coast | Moina District | | | | | Total Wolfram | | Total Scheelite[d] | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Storey's Creek | Aberfoyle Tin Mine | | S. & M. Mine[a] | Squib Mine | All Nations Mine | Iris Mine | Miscellaneous | Cons. | 65% Cons. | Cons. | 65% Cons. | Cons. | 65% Cons. |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1934 | 170·93 | 21·39 | 0·06 | — | — | — | — | 2·55 | 194·93 | — | — | — | 194·93 | |
| 1935 | 200·14 | 24·50 | — | 2·80 | — | — | — | 4·66 | 232·10 | — | — | — | 232·10 | |
| 1936 | 177·70 | 25·19 | — | — | — | — | — | 4·20 | 207·13 | — | — | — | 207·13 | |
| 1937 | 239·20 | 45·80 | 0·50 | 0·40 | — | — | — | 7·20 | 293·10 | — | — | — | 293·10 | |
| 1938 | 250·00 | 33·25 | — | — | 0·60 | — | — | 13·20 | 299·10 | 326·61 | 30·53 | 32·50 | 329·63 | 359·11 |
| 1939 | 197·00 | 25·08 | — | 0·70 | — | — | — | 4·90 | 227·60 | 251·49 | 170·70 | 189·38 | 398·30 | 440·87 |
| 1940 | 209·60 | 20·00 | — | n.r. | — | n.r. | — | n.r. | [b]234·30 | 259·02 | 275·48 | 293·27 | 509·78 | 552·29 |
| 1941 | 205·00 | 28·48 | — | — | — | 0·29 | — | 1·62 | 235·50 | 260·54 | 246·91 | 262·86 | 482·41 | 523·40 |
| 1942 | 115·90 | 62·25 | 3·28 | — | — | — | — | 1·80 | 183·23 | 202·73 | 215·33 | 229·24 | 398·56 | 431·97 |
| 1943 | 143·02 | 84·58 | 1·14 | — | — | — | — | 2·39 | [c]231·25 | 256·02 | 199·20 | 212·06 | 430·45 | 468·08 |
| 1944 | 167·50 | 68·54 | 0·32 | — | — | — | — | 5·51 | 241·88 | 266·86 | 32·21 | 34·29 | 274·09 | 301·15 |
| 1945 | 148·30 | 60·30 | 0·38 | — | — | — | — | 2·13 | 211·11 | 233·19 | 527·54 | 561·62 | 738·65 | 794·81 |
| 1946 | 123·00 | 30·56 | — | — | — | — | — | 3·01 | 156·57 | 173·13 | 627·80 | 668·35 | 784·37 | 841·48 |
| 1947 | 126·50 | 72·93 | — | — | — | — | — | 1·62 | 201·05 | 221·84 | 630·92 | 612·72 | 831·97 | 834·56 |
| 1948 | 158·00 | 74·15 | — | — | — | — | — | 2·25 | 234·40 | 260·82 | 637·42 | 619·08 | 871·82 | 879·90 |
| 1949 | 166·00 | 98·31 | 0·10 | — | — | — | — | — | 264·41 | 297·12 | 802·60 | 832·00 | 1,067·01 | 1,129·12 |
| 1950 | 113·85 | 86·03 | — | 0·13 | — | — | — | 0·09 | 200·10 | 223·10 | 791·53 | 807·70 | 991·63 | 1,030·80 |
| 1951 | 93·15 | 284·86 | 0·77 | — | — | — | — | 0·05 | 378·83 | 406·20 | 1,020·09 | 960·00 | 1,398·92 | 1,366·20 |
| 1952 | 121·05 | 337·65 | 2·67 | — | — | — | — | 1·41 | 481·48 | 489·20 | 969·59 | 906·15 | 1,451·07 | 1,395·35 |
| 1953 | 147·70 | 370·66 | 0·80 | — | — | — | — | 2·52 | 521·85 | 555·40 | 1,130·05 | 1,063·10 | 1,651·90 | 1,618·50 |
| 1954 | 215·45 | 365·20 | 0·57 | — | — | — | — | — | 581·23 | 646·20 | 1,317·42 | 1,310·80 | 1,898·65 | 1,957·00 |
| 1955 | 216·75 | 339·00 | 0·28 | 22·38 | — | — | — | — | 578·41 | 598·50 | 1,431·57 | 1,458·50 | 2,009·98 | 2,057·00 |
| 1956 | 239·50 | 398·36 | 0·26 | 8·99 | — | — | — | — | 647·11 | 681·50 | 1,488·00 | 1,515·40 | 2,135·11 | 2,196·90 |
| 1957 | 280·00 | 269·00 | 0·32 | — | — | — | — | — | 549·32 | 601·60 | 1,445·00 | 1,458·50 | 1,994·32 | 2,060·10 |
| 1958 | 188·28 | 306·72 | — | — | — | — | — | — | 495·00 | 553·80 | 731·00 | 733·80 | 1,226·00 | 1,287·60 |
| 1959 | 523·81 | 358·02 | — | — | — | — | — | — | 890·83 | 992·30 | — | — | 890·83 | 992·30 |
| 1960 | 749·00 | 357·00 | — | — | — | — | — | — | 1,106·00 | 1,236·90 | 420·00 | 447·70 | 1,526·00 | 1,684·60 |
| 1961 | 824·80 | 293·00 | — | — | — | — | — | — | 1,117·80 | 1,246·00 | 1,016·60 | 1,090·00 | 2,134·40 | 2,336·00 |
| 1962 | 286·00 | 202·00 | — | — | — | — | — | — | 488·00 | 537·00 | 988·00 | 1,055·00 | 1,476·00 | 1,595·46 |
| 1963 | 237·00 | 146·00 | — | — | — | — | — | — | 383·00 | 424·00 | 1,010·00 | 1,072·00 | 1,393·00 | 1,496·28 |
| 1964 | 264·00 | 100·00 | — | — | — | — | — | — | 364·00 | 411·00 | 1,063·00 | 1,152·00 | 1,427·00 | 1,563·00 |
| Total | 9,249·26 | 5,002·90 | 15·05 | 357·52 | 42·94 | 31·18 | 12·49 | 67·01 | 14,799·74 | | 19,807·58 | | 34,607·32 | |

[a] Became Moina Tungsten-tin N.L. in 1953. [b] 0·09 from Heemskirk. [c] 0·12 from Balfour. [d] From King Island.

## TUNGSTEN—PRODUCTION OF WOLFRAM-SCHEELITE CONCENTRATES—WESTERN AUSTRALIA

| Year | Kimberley District | Murchison Goldfield | | Yalgoo Goldfield | | Broad Arrow Goldfield | | North Coolgardie Goldfield | Coolgardie Goldfield | Dundas Goldfield | Yilgarn Goldfield | Mount Margaret Goldfield | Pilbara Goldfield | | Total $WO_3$ in Wolfram Concentrates | Total $WO_3$ in Scheelite Concentrates | Total 65% Concentrates |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Federal Downs–Napier Downs | Callie Soak, etc. | | Mount Gibson | Noongal | Ora Banda | | Comet Vale | Higginsville etc. | Norseman | Edna May | | | | | | |
| | Wolfram tons $WO_3$ | Wolfram tons $WO_3$ | Scheelite tons $WO_3$ | Wolfram tons $WO_3$ | Scheelite tons $WO_3$ | Wolfram tons $WO_3$ | Scheelite tons $WO_3$ | Scheelite tons $WO_3$ | Scheelite tons $WO_3$ | Scheelite tons $WO_3$ | Scheelite tons $WO_3$ | Scheelite tons $WO_3$ | Wolfram tons $WO_3$ | Scheelite tons $WO_3$ | tons $WO_3$ | tons $WO_3$ | tons |
| 1909 | 1·00 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1·00 | — | 1·54 |
| 1910 | 1·00 | 0·85 | — | — | — | — | — | — | — | — | — | — | — | — | 1·85 | — | 2·85 |
| 1911 | — | 6·11 | — | — | — | — | — | — | — | — | — | — | — | — | 6·11 | — | 9·40 |
| 1912 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1913 | — | 0·70 | — | — | — | — | — | — | — | — | — | — | — | — | 0·70 | — | 1·08 |
| 1914 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1915 | — | — | — | 0·12 | — | — | — | — | — | — | — | — | — | — | 0·12 | — | 0·18 |
| 1916 | — | 0·75 | — | — | — | — | — | — | — | — | — | — | — | — | 0·75 | — | 1·15 |
| 1917 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1918 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1919 | — | — | — | — | — | — | — | 3·16 | 0·39 | — | — | — | — | — | — | 3·55 | 5·46 |
| 1920 | — | — | — | — | — | — | 0·66 | 0·70 | 0·20 | 0·04 | — | — | — | — | — | 1·60 | 2·46 |
| 1921–38 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1939 | — | — | — | — | — | — | — | 0·09 | — | — | — | — | — | — | — | 0·09 | 0·14 |
| 1940 | 0·70 | — | — | — | — | — | — | — | 6·27 | — | — | — | — | — | 0·70 | 6·27 | 10·72 |
| 1941 | — | — | — | — | — | — | — | — | 0·34 | — | — | — | — | — | — | 0·34 | 0·52 |
| 1942 | — | — | — | 0·01 | — | 0·16 | — | 0·10 | 0·58 | — | — | — | — | — | 0·17 | 0·68 | 1·31 |
| 1943 | — | — | — | 0·14 | 1·94 | — | — | 0·07 | 2·81 | 0·02 | 0·08 | — | — | — | 0·14 | 4·92 | 7·78 |

TUNGSTEN—PRODUCTION OF WOLFRAM-SCHEELITE CONCENTRATES—WESTERN AUSTRALIA—*continued*

| Year | Kimberley District | Murchison Goldfield | | Yalgoo Goldfield | | Broad Arrow Goldfield | | North Coolgardie Goldfield | Coolgardie Goldfield | Dundas Goldfield | Yilgarn Goldfield | Mount Margaret Goldfield | Pilbara Goldfield | | Total $WO_3$ in Wolfram Concentrates | Total $WO_3$ in Scheelite Concentrates | Total 65% Concentrates |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Federal Downs–Napier Downs | Callie Soak, etc. | | Mount Gibson | Noongal | Ora Banda | | Comet Vale | Higginsville etc. | Norseman | Edna May | | | | | | |
| | Wolfram tons $WO_3$ | Wolfram tons $WO_3$ | Scheelite tons $WO_3$ | Wolfram tons $WO_3$ | Scheelite tons $WO_3$ | Wolfram tons $WO_3$ | Scheelite tons $WO_3$ | Scheelite tons $WO_3$ | Scheelite tons $WO_3$ | Scheelite tons $WO_3$ | Scheelite tons $WO_3$ | Scheelite tons $WO_3$ | Wolfram tons $WO_3$ | Scheelite tons $WO_3$ | tons $WO_3$ | tons $WO_3$ | tons |
| 1944 | — | — | 0·11 | — | — | — | — | — | 0·16 | — | 38·73 | — | — | — | — | 39·00 | 60·00 |
| 1945 | — | — | — | — | — | — | — | — | — | — | 16·38 | — | — | — | — | 16·38 | 25·20 |
| 1946 | — | — | — | — | — | — | — | — | 0·27 | — | 2·58 | — | — | — | — | 2·85 | 4·39 |
| 1947 | — | — | — | — | — | — | — | — | 0·31 | — | 6·12 | — | — | — | — | 6·43 | 9·89 |
| 1948 | — | — | — | — | — | — | — | — | 0·28 | — | 4·65 | — | — | — | — | 4·93 | 7·58 |
| 1949 | — | — | — | — | — | — | — | — | 0·37 | — | — | — | — | — | — | 0·37 | 0·57 |
| 1950 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1951 | — | 0·73 | — | — | — | — | — | — | 0·07 | — | — | 0·02 | 2·53 | — | 3·26 | 0·09 | 5·15 |
| 1952 | — | 3·11 | 0·02 | 0·30 | — | — | — | — | 0·58 | — | — | 0·90 | 13·69 | — | 17·10 | 1·50 | 28·61 |
| 1953 | — | 1·63 | — | 0·26 | 0·02 | — | — | 0·69 | 0·47 | — | 0·02 | 0·45 | — | — | 1·89 | 1·66 | 5·46 |
| 1954 | — | — | — | — | — | — | — | 1·49 | — | — | — | — | — | 1·21 | — | 2·70 | 4·15 |
| 1955 | — | — | — | — | — | — | — | 4·02 | 0·80 | — | — | 0·61 | — | — | — | 5·44 | 8·37 |
| 1956–61 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1962 | — | — | — | — | — | — | — | 7·35 | — | — | — | — | — | — | — | 4·91 | 7·55 |
| 1963 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1964 | — | — | — | — | — | — | — | 2·42 | 1·89 | — | — | — | — | — | — | 3·12 | 4·80 |
| Total | 2·70 | 13·88 | 0·13 | 0·83 | 1·96 | 0·16 | 0·66 | 20·09 | 15·79 | 0·06 | 68·56 | 1·98 | 16·22 | 1·21 | 33·79 | 106·83 | |

## TUNGSTEN—PRODUCTION OF WOLFRAM CONCENTRATES—NORTHERN TERRITORY

(Table prepared by Department of Mines, Alice Springs)

| Year[a] | Wolfram Creek | Yenberrie | Barrow Creek | Hatches Creek | Wauchope Creek | Mount Doreen | Miscellaneous | Total | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Cons. | 65% Cons. |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1900 | 10·00 | — | — | — | — | — | — | 10·00 | |
| 1901 | 5·00 | — | — | — | — | — | — | 5·00 | |
| 1902–3 | — | — | — | — | — | — | — | — | |
| 1904 | 28·00 | — | — | — | — | — | — | 28·00 | |
| 1905 | 61·00 | — | — | — | — | — | 3·25 | 64·25 | |
| 1906 | 103·00 | — | — | — | — | — | 5·25 | 108·25 | |
| 1907 | 75·00 | — | — | — | — | — | 16·75 | 91·75 | |
| 1908 | 8·00 | — | — | — | — | — | 5·00 | 13·00 | |
| 1909 | 41·00 | — | — | — | — | — | 1·00 | 42·00 | |
| 1910 | 63·00 | — | — | — | — | — | 7·00 | 70·00 | |
| 1911 | 42·00 | 6·25 | — | — | — | — | 1·00 | 49·25 | |
| 1912 | 27·00 | 11·25 | — | — | — | — | 1·00 | 39·25 | |
| 1913 | 16·00 | [e]15·00 | — | — | — | — | — | 31·00 | |
| 1914 | 25·00 | [e]30·00 | — | — | — | — | — | 55·00 | |
| 1915[b] | 6·25 | — | — | — | — | — | — | 6·25 | |
| 1916–17 | 40·50 | 36·00 | — | 77·00 | 12·00 | — | — | 165·50 | |
| 1918 | 62·70 | 6·00 | — | 62·00 | 59·00 | — | — | 189·70 | |
| 1919 | [e]15·00 | [e]15·00 | — | 86·90 | 66·50 | — | 4·00 | 187·40 | |
| 1920 | 47·40 | 24·50 | — | 105·30 | 92·50 | — | — | 269·70 | |
| 1921 | 17·00 | 10·00 | — | 40·00 | 35·50 | — | — | 102·00 | |
| 1922 | — | — | — | 16·00 | — | — | — | 16·00 | |
| 1923 | — | — | — | 0·40 | — | — | — | 0·40 | |
| 1924–29 | — | — | — | — | — | — | — | — | |
| 1930 | — | 1·20 | — | — | — | — | — | 1·20 | |
| 1931 | — | — | — | 6·88 | 6·88 | — | — | 13·75 | |
| 1932 | — | — | — | — | 34·00 | — | — | 34·00 | |
| 1933 | — | — | — | — | — | — | — | — | |
| 1934 | — | 1·00 | — | 24·00 | 15·00 | — | — | 40·00 | |
| 1935 | — | — | — | 39·63 | 39·63 | 11·50 | 1·55 | 92·30 | |
| 1936 | — | — | — | 49·60 | 28·50 | 7·94 | — | 86·04 | |
| 1937 | 0·90 | — | — | 86·00 | 38·00 | 10·00 | 2·17 | 137·07 | |
| 1938 | 6·75 | 0·74 | — | 164·34 | 240·32 | 19·75 | 6·80 | 438·70 | 236·72 |

[a]Ending 31st December, 1900–14, 1946–48; 30th June, 1916–45. [b]Six months ended 30th June.

TUNGSTEN—PRODUCTION OF WOLFRAM CONCENTRATES—NORTHERN TERRITORY—*continued*
(Table prepared by Department of Mines, Alice Springs)

| Year[a] | Wolfram Creek | Yenberrie | Barrow Creek | Hatches Creek | Wauchope Creek | Mount Doreen | Miscellaneous | Total | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Cons. | 65% Cons. |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1939 | 4·60 | 0·13 | — | 177·25 | 164·21 | 16·36 | 6·18 | 368·73 | 310·74 |
| 1940 | 8·61 | — | — | 186·86 | 69·18 | 7·79 | 1·58 | 275·02 | 285·53 |
| 1941 | 3·82 | — | 0·39 | 241·39 | 70·35 | 7·61 | 2·85 | 326·41 | 302·32 |
| 1942 | 0·10 | — | 3·92 | 208·50 | 34·60 | 6·86 | 0·82 | 254·80 | 144·97 |
| 1943 | — | — | 5·60 | 120·85 | 21·60 | 6·72 | 6·69 | 161·46 | 74·73 |
| 1944 | — | — | 3·85 | 71·59 | 35·79 | 19·14 | 4·71 | 135·08 | 83·15 |
| 1945 | 2·18 | — | 0·10 | 49·17 | 36·89 | 10·33 | 0·30 | 101·19 | 17·33 |
| July-Dec., 1945 | — | — | — | 40·68 | 32·45 | 3·84 | 0·12 | 77·09 | n.a. |
| 1946 | — | — | — | 39·19 | 30·29 | 3·19 | 0·07 | 72·74 | 67·15 |
| 1947 | 5·06 | 0·10 | 0·48 | 56·73 | 34·27 | 4·04 | 0·25 | 100·93 | 93·17 |
| 1948 | 0·55 | 0·35 | 0·91 | 35·92 | 30·85 | 0·54 | 1·45 | 70·57 | 65·14 |
| 1949 | 1·60 | — | 1·10 | 40·62 | 9·77 | 1·20 | 1·60 | 55·89 | 52·62 |
| 1950 | 1·95 | — | — | 22·95 | 8·49 | 7·82 | 0·43 | 41·64 | 40·62 |
| 1951 | 0·76 | — | 1·92 | 79·31 | 39·39 | 10·21 | 15·31 | 146·90 | 137·20 |
| 1952 | 13·41 | — | 1·68 | 150·15 | 46·55 | 13·72 | 36·21 | 261·72 | 253·18 |
| 1953 | 29·10 | 0·51 | — | 180·90 | 29·70 | 3·60 | 19·79 | 263·60 | 256·92 |
| 1954 | — | — | — | 64·00 | 13·50 | — | 2·40 | 79·90 | 78·46 |
| 1955 | — | — | — | 114·88 | 1·44 | 6·78 | 6·25 | 129·35 | 124·62 |
| 1956 | — | — | — | 127·46 | 17·57 | 1·25 | 9·62 | 155·90 | 155·38 |
| 1957 | — | — | — | 61·48 | 4·31 | 0·34 | 10·80 | 77·00 | 75·38 |
| 1958 | — | — | — | 11·15 | 2·85 | — | 0·20 | 14·20 | 10·12 |
| 1959 | — | — | — | 11·50 | — | — | — | 11·50 | 11·68 |
| 1960 | — | — | — | 17·00 | — | — | — | 17·00 | 16·92 |
| 1961 | — | — | — | 17·40 | 5·80 | — | 0·07 | 23·27 | 24·94 |
| 1962 | — | — | — | 1·40 | — | — | — | 1·40 | 1·38 |
| 1963–64 | — | — | — | — | — | — | — | — | — |
| Total | 772·24 | 158·03 | 19·95 | 2,885·85 | 1,407·17 | 180·53 | 185·76 | 5,610·25 | |

[a]Ending 31st December, 1900–14, 1946–48; 30th June, 1916–45. [b]Six months ended 30th June.

# ZINC

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Zinc Production—New South Wales .. .. .. .. .. 468–469

Zinc Production—Tasmania . .. .. .. .. .. .. 470

## ZINC PRODUCTION—AUSTRALIA
(Zinc content of concentrates)

| Year | Queensland | New South Wales | Tasmania | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1889 | — | 34 | — | 488 | — | 522 |
| 1890 | — | 74 | — | 17 | — | 91 |
| 1891 | — | 77 | — | 24 | — | 101 |
| 1892 | — | 157 | — | 52 | — | 209 |
| 1893 | — | — | — | 73 | — | 73 |
| 1894 | — | — | — | 45 | — | 45 |
| 1895 | — | — | — | 26 | — | 26 |
| 1896 | — | — | — | 35 | — | 35 |
| 1897 | — | 10,166 | — | 11 | — | 10,177 |
| 1898 | — | 13,726 | — | 18 | — | 13,744 |
| 1899 | — | 17,582 | — | 19 | — | 17,601 |
| 1900 | — | 7,144 | — | — | — | 7,144 |
| 1901 | — | 223 | — | — | — | 223 |
| 1902 | — | — | — | 19 | — | 19 |
| 1903 | — | 7,226 | — | 22 | — | 7,248 |
| 1904 | — | 22,041 | — | — | — | 22,041 |
| 1905 | — | 41,413 | — | — | — | 41,413 |
| 1906 | — | 41,066 | — | — | — | 41,066 |
| 1907 | — | 94,500 | — | — | — | 94,500 |
| 1908 | — | 110,373 | — | — | — | 110,373 |
| 1909 | — | 149,565 | — | — | — | 149,565 |
| 1910 | — | 205,929 | — | — | — | 205,929 |
| 1911 | — | 238,071 | — | — | — | 238,071 |
| 1912 | — | 229,058 | — | — | — | 229,058 |
| 1913 | — | 216,169 | — | — | — | 216,169 |
| 1914 | — | 165,735 | — | — | — | 165,735 |
| 1915 | — | 131,497 | — | — | — | 131,497 |
| 1916 | — | 118,684 | — | — | — | 118,684 |
| 1917 | — | 157,582 | — | — | — | 157,582 |
| 1918 | — | 181,745 | — | — | — | 181,745 |
| 1919 | — | 65,057 | 285 | — | — | 65,342 |
| 1920 | — | 10,076 | 9 | — | — | 10,085 |
| 1921 | — | 139,460 | — | — | — | 139,460 |
| 1922 | — | 195,533 | — | — | — | 195,533 |
| 1923 | — | 143,214 | — | — | — | 143,214 |
| 1924 | 128 | 108,219 | 2,749 | — | — | 111,096 |
| 1925 | 171 | 138,783 | 3,113 | — | — | 142,067 |
| 1926 | 200 | 143,476 | 5,378 | — | — | 149,054 |
| 1927 | — | 163,481 | 6,326 | — | — | 169,807 |
| 1928 | — | 139,688 | 7,112 | — | — | 146,800 |

ZINC PRODUCTION—AUSTRALIA—*continued*
(Zinc content of concentrates)

| Year | Queensland | New South Wales | Tasmania | South Australia | Western Australia | Total |
|---|---|---|---|---|---|---|
| | tons | tons | tons | tons | tons | tons |
| 1929 | — | 146,050 | 6,977 | — | — | 153,027 |
| 1930 | — | 119,613 | 943 | — | — | 120,556 |
| 1931 | — | 74,212 | — | — | — | 74,212 |
| 1932 | — | 115,672 | — | — | — | 115,672 |
| 1933 | — | 123,703 | — | — | — | 123,703 |
| 1934 | — | 136,760 | — | — | — | 136,760 |
| 1935 | 4,411 | 141,692 | — | — | — | 146,103 |
| 1936 | 30,443 | 141,168 | 18,769 | — | — | 190,380 |
| 1937 | 27,598 | 146,949 | 29,182 | — | — | 203,729 |
| 1938 | 23,735 | 164,938 | 31,386 | — | — | 220,059 |
| 1939 | 29,091 | 156,632 | 31,107 | — | — | 216,830 |
| 1940 | 29,584 | 180,344 | 32,338 | — | — | 242,266 |
| 1941 | 27,437 | 189,197 | 30,595 | — | — | 247,229 |
| 1942 | 21,035 | 171,219 | 28,362 | — | — | 220,616 |
| 1943 | 5,077 | 149,738 | 26,430 | — | — | 181,245 |
| 1944 | — | 147,373 | 26,317 | — | — | 173,690 |
| 1945 | — | 130,459 | 19,854 | — | — | 150,313 |
| 1946 | 11,361 | 137,963 | 22,678 | — | — | 172,002 |
| 1947 | 25,216 | 133,660 | 23,639 | — | — | 182,515 |
| 1948 | 21,593 | 145,589 | 23,367 | — | 151 | 190,700 |
| 1949 | 21,241 | 144,588 | 25,740 | — | 35 | 191,604 |
| 1950 | 36,070 | 156,420 | 30,165 | — | 3 | 222,658 |
| 1951 | 30,348 | 154,420 | 26,492 | — | 10 | 211,270 |
| 1952 | 33,781 | 158,232 | 27,275 | — | 47 | 219,335 |
| 1953 | 28,287 | 202,278 | 29,773 | — | 115 | 260,453 |
| 1954 | 29,809 | 216,349 | 32,654 | — | 74 | 278,886 |
| 1955 | 27,353 | 224,898 | 30,268 | — | — | 282,519 |
| 1956 | 25,327 | 243,029 | 35,278 | 7 | — | 303,641 |
| 1957 | 29,507 | 256,276 | 32,972 | 97 | — | 318,852 |
| 1958 | 29,538 | 227,440 | 36,597 | 113 | 20 | 293,708 |
| 1959 | 23,468 | 216,993 | 34,950 | — | — | 275,411 |
| 1960 | 34,775 | 248,164 | 34,515 | 35 | — | 317,489 |
| 1961 | 33,219 | 237,834 | 40,092 | 12 | — | 311,157 |
| 1962 | 44,704 | 244,863 | 47,918 | 47 | — | 337,532 |
| 1963 | 37,344 | 265,637 | 48,489 | — | — | 351,470 |
| 1964 | 37,577 | 256,001 | 50,155 | 42 | 1,666 | 345,441 |
| Total | 759,428 | 9,713,177 | 940,249 | 1,202 | 2,121 | 11,416,177 |

## ZINC PRODUCTION (REFINED)—AUSTRALIA

| Year | Port Pirie[a] | Cockle Creek[b] | Risdon[c] | Total |
|---|---|---|---|---|
| | tons | tons | tons | tons |
| 1902–7 | — | | — | Total to end of 1909 |
| 1908 | | 3,005 | — | |
| 1909 | 2,109 | — | — | 5,114 |
| 1910 | 448 | — | — | 448 |
| 1911 | 2,702 | — | — | 2,702 |
| 1912 | 2,262 | — | — | 2,262 |
| 1913 | 3,666 | — | — | 3,666 |
| 1914 | 4,384 | — | — | 4,384 |
| 1915 | 5,001 | — | — | 5,001 |
| 1916 | 4,785 | — | — | 4,785 |
| 1917 | 3,500 | — | 48 | 3,548 |
| 1918 | 5,225 | — | 3,822 | 9,047 |
| 1919 | 2,513 | — | 3,668 | 6,181 |
| 1920 | 3,822 | — | 5,809 | 9,631 |
| 1921 | 256 | — | 1,118 | 1,374 |
| 1922 | — | — | 23,517 | 23,517 |
| 1923 | — | — | 41,153 | 41,153 |
| 1924 | — | — | 46,372 | 46,372 |
| 1925 | — | — | 45,698 | 45,698 |
| 1926 | — | — | 47,214 | 47,214 |
| 1927 | — | — | 49,565 | 49,565 |
| 1928 | — | — | 50,223 | 50,223 |
| 1929 | — | — | 51,872 | 51,872 |
| 1930 | — | — | 54,901 | 54,901 |
| 1931 | — | — | 53,832 | 53,832 |
| 1932 | — | — | 53,200 | 53,200 |
| 1933 | — | — | 53,956 | 53,956 |
| 1934 | — | — | 54,629 | 54,629 |
| 1935 | — | — | 67,666 | 67,666 |
| 1936 | — | — | 76,513 | 76,513 |
| 1937 | — | — | 69,750 | 69,570 |
| 1938 | — | — | 72,468 | 72,468 |
| 1939 | ... | | 71,220 | 71,220 |
| 1940 | — | — | 74,984 | 74,984 |
| 1941 | — | — | 79,563 | 79,563 |
| 1942 | — | — | 74,282 | 74,282 |
| 1943 | — | — | 75,756 | 75,756 |
| 1944 | — | — | 78,716 | 78,716 |
| 1945 | — | — | 80,872 | 80,872 |
| 1946 | — | — | 76,316 | 76,316 |
| 1947 | — | — | 69,421 | 69,421 |
| 1948 | — | — | 81,312 | 81,312 |
| 1949 | — | — | 79,956 | 79,956 |
| 1950 | — | — | 82,858 | 82,858 |
| 1951 | — | — | 75,825 | 75,825 |
| 1952 | — | — | 86,111 | 86,111 |
| 1953 | — | — | 88,113 | 88,113 |
| 1954 | — | — | 104,523 | 104,523 |
| 1955 | — | — | 101,090 | 101,090 |
| 1956 | — | — | 104,993 | 104,993 |
| 1957 | — | — | 110,348 | 110,348 |
| 1958 | — | — | 114,773 | 114,773 |
| 1959 | — | — | 116,461 | 116,461 |
| 1960 | — | — | 120,230 | 120,230 |
| 1961 | — | 8,926 | 129,768 | 138,694 |
| 1962 | — | 35,050 | 132,878 | 167,928 |
| 1963 | — | 43,996 | 135,781 | 179,777 |
| 1964 | — | 48,272 | 137,259 | 185,531 |

[a]Production of spelter was by the Broken Hill Proprietary Co. Ltd. from 1908 to May, 1915 and by the Broken Hill Associated Smelters Pty. Ltd., from June, 1915, to 1921. [b]Production by Sulphide Corporation Ltd. was of spelter from 1902 to 1908 and of good ordinary brand zinc from 1961. [c]Production of electrolytic zinc is by Electrolytic Zinc Co. of A'sia. Ltd.

ZINC—PRICES
(Yearly average)

| Year | Aust. | U.K. | U.S.A. | Year | Aust. | U.K. | U.S.A. |
|---|---|---|---|---|---|---|---|
| | [a]£A per ton | [b]£stg. per ton | [c]cents per lb | | [a]£A per ton | [b]£stg. per ton | [c]cents per lb |
| 1920 | 45 | 45 | 7·77 | 1943 | 22 | 26 | [d]8·25 |
| 1921 | 26 | 26 | 4·67 | 1944 | 22 | 26 | [d]8·25 |
| 1922 | 30 | 30 | 5·74 | | | | |
| 1923 | 33 | 33 | 6·66 | 1945 | 22 | 29 | [d]8·25 |
| 1924 | 34 | 34 | 6·35 | 1946 | 22 | 43 | [d]8·73 |
| | | | | 1947 | 22 | 70 | [d]10·50 |
| 1925 | 36 | 36 | 7·66 | 1948 | 22 | 80 | 13·58 |
| 1926 | 34 | 34 | 7·37 | 1949 | 40 | 87 | 12·15 |
| 1927 | 28 | 28 | 6·25 | | | | |
| 1928 | 26 | 25 | 6·03 | 1950 | 47 | 119 | 13·88 |
| 1929 | 26 | 25 | 6·49 | 1951 | 65 | 172 | 17·99 |
| | | | | 1952 | 75 | 149 | 16·21 |
| 1930 | 19 | 17 | 4·56 | 1953 | 92 | 75 | 10·86 |
| 1931 | 17 | 12 | 3·64 | 1954 | 101 | 78 | 10·69 |
| 1932 | 18 | 14 | 2·88 | | | | |
| 1933 | 21 | 16 | 4·03 | 1955 | 114 | 91 | 12·30 |
| 1934 | 19 | 14 | 4·16 | 1956 | 122 | 98 | 13·49 |
| | | | | 1957 | 104 | 82 | 11·40 |
| 1935 | 19 | 14 | 4·33 | 1958 | 91 | 66 | 10·31 |
| 1936 | 20 | 15 | 4·90 | 1959 | 106 | 82 | 11·46 |
| 1937 | 29 | 22 | 6·52 | | | | |
| 1938 | 20 | 14 | 4·61 | 1960 | 113 | 89 | 12·96 |
| 1939 | 20 | 14 | 5·12 | 1961 | 103 | 78 | 11·54 |
| | | | | 1962 | 100 | 67 | 11·63 |
| 1940 | 29 | 26 | 6·34 | 1963 | 102 | 77 | 12·00 |
| 1941 | 23 | 26 | 7·48 | 1964 | 144 | 118 | 13·57 |
| 1942 | 22 | 26 | [d]8·25 | | | | |

[a]Electrolytic 99·95% f.o.b. Risdon. [b]Quotation of the L.M.E. for the current month, ex-warehouse or ship excl. duty for good ordinary brands (G.O.B.). From 1st Sept. 1939 to 31st Dec. 1952 trade was discontinued at the L.M.E. and prices were under Government control. L.M.E. re-opened on 2nd Jan. 1953 for virgin zinc min. 98% for the current month, ex-warehouse or ship excl. duty. [c]Quotation for Prime Western Zinc, East St. Louis. [d]Excludes government bonus payments to marginal producers.

## ZINC—EXPORTS[a]—AUSTRALIA

| Year | Zinc Ores and Concentrates | | | Zinc Ingots, Slabs, etc. | |
|---|---|---|---|---|---|
| | tons | Zinc Content tons | £, f.o.b. | tons | £, f.o.b. |
| 1903 | 3,010 | n.a. | 15,245 | n.r.s. | n.r.s. |
| 1904 | 15,509 | n.a. | 47,891 | n.r.s. | n.r.s. |
| 1905 | 150,346 | n.a. | 780,049 | n.r.s. | n.r.s. |
| 1906 | 129,614 | n.a. | 801,375 | n.r.s. | n.r.s. |
| 1907 | 269,639 | n.a. | 1,478,780 | 84 | 1,385 |
| 1908 | 311,751 | n.a. | 1,512,604 | 10 | 221 |
| 1909 | 349,279 | 151,156 | 1,348,107 | 6 | 156 |
| 1910 | 408,054 | 178,260 | 1,582,053 | 81 | 1,549 |
| 1911 | 432,388 | 192,812 | 1,644,295 | 31 | 705 |
| 1912 | 466,298 | 204,164 | 1,983,552 | 51 | 1,197 |
| 1913 | 472,001 | 220,634 | 2,243,672 | 48 | 982 |
| 1914 | n.a. | n.a. | n.a. | n.a. | n.a. |
| 1914–15 | 120,491 | 53,503 | 613,219 | 2,678 | 111,730 |
| 1915–16 | 184,455 | 81,609 | 1,312,199 | 2,300 | 167,306 |
| 1916–17 | 160,451 | 73,710 | 1,084,961 | 2,166 | 139,529 |
| 1917–18 | 56,576 | 25,977 | 351,318 | 188 | 11,387 |
| 1918–19 | 71,847 | 32,594 | 429,474 | 1,518 | 101,591 |
| 1919–20 | 29,672 | 13,742 | 166,433 | 2,019 | 97,812 |
| 1920–21 | 42,350 | 19,088 | 224,541 | 3,321 | 139,026 |
| 1921–22 | 120,428 | 56,358 | 586,329 | 7,953 | 236,242 |
| 1922–23 | 344,607 | 154,920 | 1,461,016 | 24,754 | 846,054 |
| 1923–24 | 271,316 | 124,689 | 1,166,424 | 36,926 | 1,057,895 |
| 1924–25 | 225,497 | 106,561 | 1,055,802 | 32,344 | 1,146,309 |
| 1925–26 | 267,847 | 93,302 | 1,495,373 | 29,046 | 1,069,332 |
| 1926–27 | 100,724 | 37,545 | 551,404 | 26,828 | 926,131 |
| 1927–28 | 305,279 | 156,753 | 1,474,546 | 42,042 | 1,231,752 |
| 1928–29 | 191,439 | 92,576 | 891,942 | 32,647 | 913,197 |
| 1929–30 | 199,564 | 106,548 | 931,609 | 32,943 | 810,496 |
| 1930–31 | 154,296 | 76,664 | 520,720 | 45,475 | 723,806 |
| 1931–32 | 58,497 | 30,631 | 106,078 | 45,534 | 697,122 |
| 1932–33 | 67,810 | 35,684 | 179,200 | 34,969 | 578,448 |
| 1933–34 | 96,270 | 51,158 | 201,308 | 32,350 | 617,541 |

[a]Figures prior to 1903 not available.

ZINC—EXPORTS[a]—AUSTRALIA—*continued*

| Year | Zinc Ores and Concentrates | | | Zinc Ingots, Slabs, etc. | |
|---|---|---|---|---|---|
| | tons | Zinc Content tons | £, f.o.b. | tons | £, f.o.b. |
| 1934–35 | 85,440 | 45,956 | 171,612 | 27,429 | 494,073 |
| 1935–36 | 193,129 | 96,397 | 534,244 | 42,314 | 905,133 |
| 1936–37 | 142,298 | 70,464 | 874,309 | 47,775 | 1,314,026 |
| 1937–38 | 223,382 | 116,390 | 1,316,990 | 30,944 | 752,456 |
| 1938–39 | 247,221 | 131,257 | 823,773 | 44,617 | 887,693 |
| 1939–40 | 175,335 | 90,814 | 577,425 | 38,632 | 824,718 |
| 1940–41 | 199,432 | 105,526 | 586,907 | 29,908 | 649,001 |
| 1941–42 | 119,912 | 55,211 | 363,911 | 23,213 | 522,091 |
| 1942–43 | 204,546 | 107,322 | 909,265 | 24,163 | 551,333 |
| 1943–44 | 254,933 | 124,523 | 1,092,752 | 52,237 | 1,203,490 |
| 1944–45 | 180,540 | 90,897 | 865,294 | 60,179 | 1,879,193 |
| 1946 | 134,777 | [e]70,084 | 671,183 | 49,821 | 2,635,820 |
| 1947 | 192,988 | [e]100,354 | 1,905,354 | 28,408 | 1,877,413 |
| 1948 | 149,652 | [e]77,819 | 2,169,516 | 33,715 | 2,617,799 |
| 1949 | 147,451 | [e]76,675 | 2,698,108 | 33,595 | 3,259,738 |
| 1950 | 172,728 | [e]89,819 | 5,123,563 | 43,001 | 5,215,430 |
| 1951 | 167,445 | [e]87,976 | 9,319,649 | 20,529 | 4,148,104 |
| 1952 | 226,574 | [e]119,042 | 11,836,839 | 44,741 | 8,450,158 |
| 1953 | 233,309 | [e]121,320 | 5,311,983 | 36,938 | 3,715,968 |
| 1954 | 264,263 | [e]137,416 | 3,445,555 | 38,262 | 3,759,863 |
| 1955 | 240,844 | [e]125,238 | 3,533,879 | 33,902 | 3,854,596 |
| 1956 | 267,403 | [e]139,045 | 4,667,940 | 31,594 | 3,802,098 |
| 1957 | 323,654 | 169,773 | 5,201,389 | 37,092 | 4,032,621 |
| 1958 | 261,279 | 137,323 | 2,749,179 | 37,938 | 3,165,484 |
| 1959 | 193,254 | 101,738 | 2,471,984 | 41,606 | 3,961,558 |
| 1960 | 321,930 | 168,200 | 5,395,263 | 27,443 | 3,065,921 |
| 1961 | 276,109 | 143,437 | 5,056,235 | 46,472 | 4,482,373 |
| 1962 | 255,209 | 116,386 | 4,071,508 | 91,215 | 7,458,641 |
| 1963 | 260,421 | 133,495 | 4,365,789 | 96,775 | 8,557,339 |
| 1964 | 224,117 | 132,571 | 7,841,591 | 80,184 | 10,613,070 |

[a]Figures prior to 1903 not available.

ZINC—IMPORTS—AUSTRALIA

| Year | Spelter | |
|---|---|---|
| | tons | £, f.o.b. |
| 1953–54 | 75 | 32,713 |
| 1954–55 | 131 | 56,436 |
| 1955–56 | 154 | 56,992 |
| 1956–57 | 132 | 57,393 |
| 1957–58 | 156 | 68,017 |
| 1958–59 | 129 | 87,061 |
| 1959–60 | 911 | 220,514 |
| | Zinc and zinc base alloys except wire | |
| | tons | £, f.o.b. |
| 1960–61 | 2,533 | 499,474 |
| 1961–62 | 1,187 | 115,765 |
| 1962–63 | 1,839 | 180,994 |
| 1963–64 | 195 | 26,518 |

## ZINC PRODUCTION—QUEENSLAND
(Zinc content of concentrates)

| Year | Mount Isa District[a] | | Miscellaneous[b] | Total |
|---|---|---|---|---|
| | Zinc content of zinc concentrates | Zinc content of lead concentrates | | |
| | tons | tons | tons | tons |
| 1924 | — | — | 128 | 128 |
| 1925 | — | — | 171 | 171 |
| 1926 | — | — | 200 | 200 |
| 1927–34 | — | — | — | — |
| 1935 | 4,411 | n.a. | — | 4,411 |
| 1936 | 30,443 | n.a. | — | 30,443 |
| 1937 | 27,598 | n.a. | — | 27,598 |
| 1938 | 23,735 | n.a. | — | 23,735 |
| 1939 | 29,091 | n.a. | — | 29,091 |
| 1940 | 29,584 | n.a. | — | 29,584 |
| 1941 | 27,437 | n.a. | — | 27,437 |
| 1942 | 21,035 | n.a. | — | 21,035 |
| 1943 | 5,077 | n.a. | — | 5,077 |
| 1944 | — | — | — | — |
| 1945 | — | — | — | — |
| 1946 | 11,361 | n.a. | — | 11,361 |
| 1947 | 25,216 | n.a. | — | 25,216 |
| 1948 | 21,593 | n.a. | — | 21,593 |
| 1949 | 21,241 | n.a. | — | 21,241 |
| 1950 | 25,800 | 10,270 | — | 36,070 |
| 1951 | 21,743 | 8,605 | — | 30,348 |
| 1952 | 23,683 | 10,098 | — | 33,781 |
| 1953 | 19,961 | 8,326 | — | 28,287 |
| 1954 | 19,615 | 10,194 | — | 29,809 |
| 1955 | 17,138 | 10,215 | — | 27,353 |
| 1956 | 16,231 | 9,096 | — | 25,327 |
| 1957 | 19,536 | 9,971 | — | 29,507 |
| 1958 | 17,484 | 12,054 | — | 29,538 |
| 1959 | 13,983 | 9,485 | — | 23,468 |
| 1960 | 24,394 | 10,381 | — | 34,775 |
| 1961 | 25,629 | 7,590 | — | 33,219 |
| 1962 | 33,390 | 11,314 | — | 44,704 |
| 1963 | 25,199 | 12,145 | — | 37,344 |
| 1964 | 26,272 | 11,305 | — | 37,577 |
| Total | 607,880 | [i]151,049 | 499 | [i]759,428 |

[a]Established 1/1/1958; figures were previously included in Cloncurry district. [b]Includes small quantities produced from the following districts: Stanthorpe, Chillagoe and Bowen.

## ZINC PRODUCTION—NEW SOUTH WALES[a]

| Year | Broken Hill | | Captain's Flat | | Miscellaneous[b] | Total zinc content of concentrates |
|---|---|---|---|---|---|---|
| | Zinc content of zinc concentrates | Zinc content of lead concentrates | Zinc content of zinc concentrates | Zinc content of lead concentrates | | |
| | tons | tons | tons | tons | tons | tons |
| 1889 | — | — | — | — | — | [c]e34 |
| 1890 | — | — | — | — | — | [c]e74 |
| 1891 | — | — | — | — | — | [c]e77 |
| 1892 | — | — | — | — | — | [c]e157 |
| 1893 | — | — | — | — | — | — |
| 1894 | — | — | — | — | — | — |
| 1895 | — | — | — | — | — | — |
| 1896 | — | — | — | — | — | — |
| 1897 | 10,166 | n.a. | — | — | — | 10,166 |
| 1898 | 13,726 | | — | — | — | 13,726 |
| 1899 | 17,582 | | — | — | — | 17,582 |
| 1900 | 7,144 | | — | — | — | 7,144 |
| 1901 | 223 | | — | — | — | 223 |
| 1902 | — | | — | — | — | — |
| 1903 | e7,200 | | — | — | 26 | e7,226 |
| 1904 | e22,041 | | — | — | — | e22,041 |
| 1905 | e41,413 | | — | — | — | e41,413 |
| 1906 | e41,066 | | — | — | — | e41,066 |
| 1907 | e94,500 | | — | — | — | e94,500 |
| 1908 | e110,373 | | — | — | — | e110,373 |
| 1909 | e149,562 | | — | — | 3 | e149,565 |
| 1910 | 188,884 | 17,005 | — | — | 40 | 205,929 |
| 1911 | 217,625 | 19,970 | — | — | 476 | 238,071 |
| 1912 | 206,201 | 22,422 | — | — | 435 | 229,058 |
| 1913 | 190,168 | 26,001 | — | — | — | 216,169 |
| 1914 | 144,759 | 20,976 | — | — | — | 165,735 |
| 1915 | 114,169 | 17,328 | — | — | — | 131,497 |
| 1916 | 101,186 | 17,498 | — | — | — | 118,684 |
| 1917 | 140,286 | 17,296 | — | — | — | 157,582 |
| 1918 | 159,728 | 22,017 | — | — | — | 181,745 |
| 1919 | 57,454 | 7,603 | — | — | — | 65,057 |
| 1920 | 9,126 | 950 | — | — | — | 10,076 |
| 1921 | 129,099 | 10,361 | — | — | — | 139,460 |
| 1922 | 175,362 | 20,171 | — | — | — | 195,533 |
| 1923 | 121,322 | 21,892 | — | — | — | 143,214 |
| 1924 | 90,876 | 17,343 | — | — | — | 108,219 |
| 1925 | 119,091 | 19,692 | — | — | — | 138,783 |
| 1926 | 124,895 | 18,581 | — | — | — | 143,476 |
| 1927 | 142,258 | 21,223 | — | — | — | 163,481 |
| 1928 | 121,154 | 18,534 | — | — | — | 139,688 |

[a]Figures from 1889–1909 from Department of Mines; from 1910–49 from Australian Mines and Metals Association; from 1950 from Commonwealth Bureau of Census and Statistics. [b]Includes small quantities produced from the following localities: Emmaville, Kangiara, Condobolin, Bobadah, Conrad Mines, Drake and Kootra. [c]Locality not stated.

ZINC PRODUCTION—NEW SOUTH WALES[a]—*continued*

| Year | Broken Hill | | Captain's Flat | | Miscellaneous[b] | Total Zinc content of concentrates |
|---|---|---|---|---|---|---|
| | Zinc content of zinc concentrates | Zinc content of lead concentrates | Zinc content of zinc concentrates | Zinc content of lead concentrates | | |
| | tons | tons | tons | tons | tons | tons |
| 1929 | 124,779 | 21,268 | — | — | 3 | 146,050 |
| 1930 | 102,972 | 16,641 | — | — | — | 119,613 |
| 1931 | 66,124 | 8,088 | — | — | — | 74,212 |
| 1932 | 106,348 | 9,324 | — | — | — | 115,672 |
| 1933 | 114,235 | 9,468 | — | — | — | 123,703 |
| 1934 | 126,062 | 10,798 | — | — | — | 136,760 |
| 1935 | 130,619 | 11,073 | — | — | — | 141,692 |
| 1936 | 130,035 | 11,133 | — | — | — | 141,168 |
| 1937 | 136,430 | 10,519 | — | — | — | 146,949 |
| 1938 | 152,258 | 12,680 | — | — | — | 164,938 |
| 1939 | 133,732 | 11,475 | 9,909 | 1,516 | — | 156,632 |
| 1940 | 150,070 | 11,379 | 16,359 | 2,536 | — | 180,344 |
| 1941 | 160,342 | 11,530 | 15,973 | 1,352 | — | 189,197 |
| 1942 | 140,448 | 10,680 | 18,580 | 1,511 | — | 171,219 |
| 1943 | 119,242 | 8,850 | 20,195 | 1,451 | — | 149,738 |
| 1944 | 119,329 | 9,055 | 16,673 | 2,316 | — | 147,373 |
| 1945 | 109,575 | 8,991 | 10,011 | 1,882 | — | 130,459 |
| 1946 | 114,379 | 8,397 | 13,433 | 1,754 | — | 137,963 |
| 1947 | 112,533 | 8,460 | 11,346 | 1,321 | — | 133,660 |
| 1948 | 126,620 | 9,524 | 8,369 | 1,076 | — | 145,589 |
| 1949 | 129,894 | 9,617 | 4,532 | 545 | — | 144,588 |
| 1950 | 130,147 | 10,249 | 14,078 | 1,946 | — | 156,420 |
| 1951 | 129,215 | 9,525 | 13,854 | 1,782 | 44 | 154,420 |
| 1952 | 133,489 | 8,849 | 14,121 | 1,728 | 45 | 158,232 |
| 1953 | 174,654 | 11,433 | 14,868 | 1,319 | 4 | 202,278 |
| 1954 | 196,240 | 13,112 | 6,406 | 591 | — | 216,349 |
| 1955 | 198,369 | 12,167 | 13,109 | 1,253 | — | 224,898 |
| 1956 | 211,580 | 12,246 | 17,447 | 1,657 | 99 | 243,029 |
| 1957 | 224,614 | 13,303 | 16,852 | 1,464 | 43 | 256,276 |
| 1958 | 192,114 | 13,892 | 19,553 | 1,881 | — | 227,440 |
| 1959 | 186,029 | 12,673 | 16,646 | 1,645 | — | 216,993 |
| 1960 | 216,531 | 12,199 | 17,639 | 1,795 | — | 248,164 |
| 1961 | 210,200 | 10,817 | 15,378 | 1,439 | — | 237,834 |
| 1962 | 224,928 | 16,989 | 2,678 | 268 | — | 244,863 |
| 1963 | 247,107 | 18,530 | — | — | — | 265,637 |
| 1964 | 240,630 | 15,371 | — | — | — | 256,001 |
| Total | 8,590,512 | 757,068 | 328,009 | 36,028 | 1,218 | 9,713,177 |

[a]Figures from 1889–1909 from Department of Mines; from 1910–49 from Australian Mines and Metals Association; from 1950 from Commonwealth Bureau of Census and Statistics. [b]Includes small quantities produced from the following localities: Emmaville, Kangiara, Condobolin, Bobadah, Conrad Mines, Drake and Kootra. [c]Locality not stated.

ZINC PRODUCTION—TASMANIA
(Zinc content of concentrates)

| Year | Read-Rosebery[a] | | Zeehan | Mount Farrell | Dundas | Lyell Comstock | Total |
|---|---|---|---|---|---|---|---|
| | Zinc content of zinc concentrates | Zinc content of lead concentrates | | | | | |
| | tons | tons | tons | tons | tons | tons | tons |
| 1919 | — | — | — | — | — | — | [b]285 |
| 1920 | — | — | — | — | — | — | [b]9 |
| 1921–23 | — | — | — | — | — | — | — |
| 1924 | 2,447 | n.a. | — | — | — | — | [c]2,749 |
| 1925 | 2,722 | n.a. | — | — | — | — | [c]3,113 |
| 1926 | 5,162 | n.a. | — | — | — | — | [c]5,378 |
| 1927 | 5,914 | n.a. | 412 | — | — | — | 6,326 |
| 1928 | 6,219 | n.a. | 167 | 465 | 238 | 23 | 7,112 |
| 1929 | 5,709 | n.a. | — | 1,268 | — | — | 6,977 |
| 1930 | — | — | — | 943 | — | — | 943 |
| 1931–35 | — | — | — | — | — | — | — |
| 1936 | 18,769 | n.a. | — | — | — | — | 18,769 |
| 1937 | 27,303 | 1,604 | — | 275 | — | — | 29,182 |
| 1938 | 29,182 | 1,936 | — | 268 | — | — | 31,386 |
| 1939 | 29,133 | 1,974 | — | — | — | — | 31,107 |
| 1940 | 30,134 | 2,204 | — | — | — | — | 32,338 |
| 1941 | 28,452 | 2,143 | — | — | — | — | 30,595 |
| 1942 | 25,695 | 2,667 | — | — | — | — | 28,362 |
| 1943 | 23,969 | 2,461 | — | — | — | — | 26,430 |
| 1944 | 24,224 | 2,093 | — | — | — | — | 26,317 |
| 1945 | 18,149 | 1,705 | — | — | — | — | 19,854 |
| 1946 | 20,919 | 1,759 | — | — | — | — | 22,678 |
| 1947 | 21,486 | 2,118 | 35 | — | — | — | 23,639 |
| 1948 | 21,265 | 1,886 | 216 | — | — | — | 23,367 |
| 1949 | 23,588 | 2,152 | — | — | — | — | 25,740 |
| 1950 | 27,739 | [c]2,410 | 16 | — | — | — | 30,165 |
| 1951 | 24,333 | [c]2,130 | 29 | — | — | — | 26,492 |
| 1952 | 25,025 | [c]2,210 | 40 | — | — | — | 27,275 |
| 1953 | 27,533 | [c]2,240 | — | — | — | — | 29,773 |
| 1954 | 30,324 | [c]2,330 | — | — | — | — | 32,654 |
| 1955 | 27,948 | [c]2,320 | — | — | — | — | 30,268 |
| 1956 | 32,718 | [c]2,560 | — | — | — | — | 35,278 |
| 1957 | 30,440 | 2,532 | — | — | — | — | 32,972 |
| 1958 | 33,760 | 2,837 | — | — | — | — | 36,597 |
| 1959 | 32,475 | 2,475 | — | — | — | — | 34,950 |
| 1960 | 31,625 | 2,890 | — | — | — | — | 34,515 |
| 1961 | 36,990 | 3,102 | — | — | — | — | 40,092 |
| 1962 | 44,382 | 3,536 | — | — | — | — | 47,918 |
| 1963 | 44,871 | 3,618 | — | — | — | — | 48,489 |
| 1964 | 46,596 | 3,559 | — | — | — | — | 50,155 |
| Total | 867,200 | 67,451 | 915 | 3,219 | 238 | 23 | 940,249 |

[a]Figures from 1919–36 from Department of Mines and represent "metallic zinc"; from 1937–49 from Australian Mines and Metals Association; from 1950 from Commonwealth Bureau of Census and Statistics; all represent gross metallic content. [b]Locality not stated. [c]Not all accounted for in previous columns.

# ZIRCONIUM

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## ZIRCON PRODUCTION—AUSTRALIA

| Year | Queensland | | | New South Wales | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|
| | Zircon Cons. | Mixed Cons. | Zircon Content[a] | Zircon Cons. | Mixed Cons. | Zircon Content[a] | Zircon Cons. | Mixed Cons. | Zircon Content[a] |
| | tons | tons | tons | tons | tons | tons | tons | tons | tons |
| 1934 | — | — | — | — | 51 | 28 | — | 51 | 28 |
| 1935 | — | — | — | 1,458 | 665 | 1,796 | 1,458 | 665 | 1,796 |
| 1936 | — | — | — | 247 | — | 2,693 | 247 | 2,832 | 2,693 |
| 1937 | — | — | — | 339 | 6,705 | 4,953 | 339 | 6,705 | 4,953 |
| 1938 | — | — | — | 158 | 96 | 192 | 158 | 96 | 192 |
| 1939 | — | — | — | 206 | 2,347 | 1,660 | 206 | 2,347 | 1,660 |
| 1940 | — | — | — | 1,519 | 6,359 | 5,449 | 1,519 | 6,359 | 5,449 |
| 1941 | — | 1,000 | 421 | 1,921 | 16,920 | 12,367 | 1,921 | 17,920 | 12,788 |
| 1942 | — | 3,634 | 1,499 | 2,038 | 13,954 | 9,715 | 2,038 | 17,588 | 11,214 |
| 1943 | — | 6,782 | 2,929 | 1,051 | 10,566 | 6,876 | 1,051 | 17,348 | 9,805 |
| 1944 | — | 14,328 | 6,342 | 3,549 | 7,105 | 7,151 | 3,549 | 21,433 | 13,493 |
| 1945 | 170 | 11,942 | 5,436 | 6,247 | 6,737 | 9,599 | 6,417 | 18,679 | 15,035 |
| 1946 | 2,408 | 3,311 | 3,844 | 5,905 | 5,138 | 8,497 | 8,313 | 8,449 | 12,341 |
| 1947 | 4,228 | 3,332 | 6,060 | 11,163 | 8,652 | 15,932 | 15,391 | 11,984 | 21,992 |
| 1948 | 6,564 | — | 6,134 | 12,499 | 5,605 | 15,755 | 19,063 | 5,605 | 21,889 |
| 1949 | 6,265 | — | 6,115 | 12,608 | 3,360 | 14,560 | 18,873 | 3,360 | 20,675 |
| Total 1934–49 | 19,635 | 44,329 | 38,830 | 60,908 | 94,260 | 118,749 | 80,543 | 138,589 | 157,579 |

| | Queensland | | New South Wales | | Western Australia[b] | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Zircon Cons. | Zircon Content | Zircon Cons. | Zircon Content | Zircon Cons. | Zircon Content | Zircon Cons. | Zircon Content |
| | tons | tons | tons | tons | tons | tons | tons | tons |
| 1950 | 6,775 | 6,727 | 15,030 | 14,809 | — | — | 21,805 | 21,536 |
| 1951 | 10,129 | 9,502 | 32,281 | 31,918 | — | — | 42,410 | 41,420 |
| 1952 | 10,540 | 10,447 | 17,156 | 16,924 | — | — | 27,696 | 27,371 |
| 1953 | 11,679 | 11,516 | 15,528 | 15,305 | — | — | 27,207 | 26,821 |
| 1954 | 13,964 | 13,883 | 27,489 | 27,037 | — | — | 41,453 | 40,920 |
| 1955 | 15,846 | 15,745 | 32,827 | 32,465 | — | — | 48,673 | 48,210 |
| 1956 | 21,798 | 21,634 | 50,660 | 50,135 | — | — | 72,458 | 71,769 |
| 1957 | 29,188 | 28,956 | 59,373 | 58,747 | — | — | 88,561 | 87,703 |
| 1958 | 26,621 | 26,412 | 32,542 | 32,230 | 106 | 103 | 59,269 | 58,745 |
| 1959 | 34,792 | 34,504 | 71,777 | 71,156 | 6,787 | 6,692 | 113,356 | 112,352 |
| 1960 | 32,016 | 31,752 | 66,328 | 65,764 | 4,018 | 3,978 | 102,362 | 101,494 |
| 1961 | 29,016 | 28,775 | 100,085 | 98,421 | 7,380 | 7,306 | 136,481 | 134,502 |
| 1962 | 38,815 | 38,468 | 91,298 | 89,947 | 3,731 | 3,694 | 133,844 | 132,109 |
| 1963 | 52,720 | 52,193 | 119,586 | 117,520 | 12,524 | 12,399 | 184,830 | 182,112 |
| 1964 | 44,277 | 43,834 | 118,294 | 117,044 | 21,511 | 21,296 | 184,082 | 182,174 |
| Total 1950–64 | 378,176 | 374,348 | 850,254 | 839,422 | 56,057 | 55,468 | 1,284,487 | 1,269,238 |

[a] Including zircon in rutile and ilmenite concentrates. [b] Shipments.

ZIRCON—EXPORTS[a]—AUSTRALIA

| Year | Zircon Concentrates | | Mixed Concentrates[b] | |
|---|---|---|---|---|
| | tons | £, f.o.b. | tons | £, f.o.b. |
| 1946 | 7,571 | 63,494 | 8,226 | 66,891 |
| 1947 | 8,832 | 77,551 | 12,433 | 143,663 |
| 1948 | 12,887 | 120,709 | 4,340 | 49,308 |
| 1949 | 17,783 | 186,395 | 2,964 | 35,126 |
| 1950 | 19,610 | 216,837 | 1,568 | 20,979 |
| 1951 | 34,485 | 460,892 | — | — |
| 1952 | 26,083 | 308,559 | — | — |
| 1953 | 31,173 | 298,132 | — | — |
| 1954 | 36,512 | 389,688 | — | — |
| 1955 | 46,685 | 522,054 | — | — |
| 1956 | 68,838 | 822,008 | — | — |
| 1957 | 85,254 | 1,142,826 | — | — |
| 1958 | 60,895 | 711,459 | — | — |
| 1959 | 108,820 | 1,298,078 | — | — |
| 1960 | 104,630 | 1,335,474 | — | — |
| 1961 | 140,333 | 1,723,032 | — | — |
| 1962 | 131,843 | 1,644,810 | — | — |
| 1963 | 179,697 | 2,177,292 | — | — |
| 1964 | 198,664 | 2,562,220 | — | — |

[a]Not recorded separately prior to 1st July, 1945. [b]Zircon-rutile concentrates and zircon-rutile-ilmenite concentrates. Exports of mixed concentrates ceased after 1950.