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**INDIAN BUREAU OF MINES**  
**MINERAL ECONOMICS DIVISION**  
**WORLD MINERAL INTELLIGENCE UNIT**

**WORLD MINERAL PRODUCTION**  
**2013-2015**

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**World Production of Alumina**  
**(By Principal Countries)**

(In '000 tonnes of Al<sub>2</sub>O<sub>3</sub> content)

| Country              | 2013          | 2014              | 2015              |
|----------------------|---------------|-------------------|-------------------|
| <b>World Total**</b> | <b>104500</b> | <b>108900</b>     | <b>116700</b>     |
| Australia            | 21528         | 20474             | 20097             |
| Brazil               | 9942          | 10404             | 10452             |
| Canada               | 1555          | 1563              | 1561              |
| China                | 47750         | 52399             | 58978             |
| Germany <sup>e</sup> | 1000          | 1000              | 1000              |
| India                | 3779          | 4000 <sup>e</sup> | 5000 <sup>e</sup> |
| Ireland              | 1265          | 1271              | 1283              |
| Jamaica              | 1855          | 1851              | 1865              |
| Kazakhstan           | 1590          | 1419              | 1448              |
| Russia               | 2659          | 2572              | 2593              |
| Spain <sup>e</sup>   | 1400          | 1400              | 1400              |
| Suriname             | 1149          | 1149              | 780               |
| USA                  | 4324          | 4461              | 4541              |
| Ukraine              | 1493          | 1455              | 1481              |
| Other countries      | 3220          | 3469              | 4191              |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- estimated

\*\*:- World total rounded off and not at actuals, hence may not tally

**Production of Aluminium (Primary)**  
**(By Principal Countries)**

(In '000 tonnes )

| Country               | 2013         | 2014         | 2015         |
|-----------------------|--------------|--------------|--------------|
| <b>World Total **</b> | <b>52200</b> | <b>54200</b> | <b>57700</b> |
| Australia             | 1777         | 1704         | 1646         |
| Bahrain               | 913          | 931          | 961          |
| Brazil                | 1304         | 962          | 772          |
| Canada                | 2967         | 2858         | 2880         |
| China                 | 26534        | 28317        | 31413        |
| Iceland               | 736          | 749          | 735          |
| India                 | 1667         | 2027         | 2355         |
| Norway                | 1173         | 1182         | 1224         |
| Russia                | 3724         | 3488         | 3529         |
| South Africa          | 822          | 745          | 695          |
| USA                   | 1946         | 1710         | 1587         |
| UAE                   | 1845         | 2296         | 2397         |
| Other countries       | 6763         | 7200         | 7477         |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

\*\* :- World total rounded off and not at actuals, hence may not tally

**World Mine Production of Antimony  
(By Principal Countries)**

(In tonnes of metal content)

| Country                 | 2013              | 2014              | 2015              |
|-------------------------|-------------------|-------------------|-------------------|
| <b>World Total **</b>   | <b>193000</b>     | <b>175000</b>     | <b>143000</b>     |
| Australia               | 2883              | 3484              | 3737              |
| Bolivia                 | 5053              | 4186              | 3843              |
| Canada                  | 177               | 5                 | 1                 |
| China                   | 152104            | 140389            | 111400            |
| Guatemala               | 159               | 0                 | 0                 |
| Iran                    | 400               | 432               | 400 <sup>e</sup>  |
| Kazakhstan              | 900               | 800               | 700               |
| Kyrgyzstan <sup>e</sup> | 900               | 2450              | 2000              |
| Laos                    | 804               | 620               | 1100              |
| Mexico                  | 294               | 266               | 90                |
| Myanmar <sup>e</sup>    | 7400              | 3300              | 3000              |
| Pakistan                | 89                | 127               | 114               |
| Russia                  | 6520 <sup>e</sup> | 6400 <sup>e</sup> | 7420              |
| South Africa            | 2332              | 816               | 100 <sup>e</sup>  |
| Tajikistan              | 7307              | 6500 <sup>e</sup> | 5400 <sup>e</sup> |
| Thailand                | 488               | 706               | 700 <sup>e</sup>  |
| Turkey                  | 4512              | 3013              | 1917              |
| Vietnam                 | 990               | 1098              | 996               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

\*\* :- World total rounded off and not at actuals, hence may not tally

**Mine Production of Asbestos  
(By Principal countries)**

| (In '000 tonnes )                |             |             |                  |
|----------------------------------|-------------|-------------|------------------|
| Country                          | 2013        | 2014        | 2015             |
| <b>World Total <sup>**</sup></b> | <b>2000</b> | <b>2000</b> | <b>1600</b>      |
| Brazil                           | 291         | 311         | 300 <sup>e</sup> |
| China <sup>e</sup>               | 420         | 410         | 400              |
| Kazakhstan                       | 243         | 213         | 180              |
| Russia <sup>e</sup>              | 1000        | 1050        | 700              |
| Other countries                  | 1           | 0           | 0                |

Source:- World Mineral Production,2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

**\*\*** :- World total rounded off and not at actuals, hence may not tally

**Mine Production of Bauxite  
(By Principal Countries)**

| (In '000 tonnes )     |               |                   |                    |
|-----------------------|---------------|-------------------|--------------------|
| Country               | 2013          | 2014              | 2015               |
| <b>World Total **</b> | <b>299000</b> | <b>260000</b>     | <b>294000</b>      |
| Australia             | 81119         | 78632             | 80910              |
| Brazil                | 33904         | 36313             | 37064              |
| China                 | 50339         | 59212             | 65000 <sup>e</sup> |
| Greece                | 1844          | 1876              | 1821               |
| Guinea                | 18763         | 19182             | 18114              |
| Guyana                | 1713          | 1564              | 1527               |
| India                 | 22319         | 22494             | 28134              |
| Indonesia             | 57024         | 2556              | 472                |
| Jamaica               | 9435          | 9677              | 9629               |
| Kazakhstan            | 5193          | 4516              | 4683               |
| Malaysia              | 209           | 3500 <sup>e</sup> | 27700 <sup>e</sup> |
| Russia                | 5322          | 5589              | 5398               |
| Saudi Arabia          | 1044          | 2076              | 2174               |
| Suriname              | 2671          | 2708              | 1865               |
| Venezuela             | 2346          | 2316              | 992                |
| Other countries       | 6050          | 7840              | 8593               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

\*\* :- World total rounded off and not at actuals, hence may not tally



**World Production of Barytes  
(By Principal Countries)**

(In '000 tonnes )

| Country               | 2013        | 2014        | 2015             |
|-----------------------|-------------|-------------|------------------|
| <b>World Total **</b> | <b>8600</b> | <b>8800</b> | <b>7900</b>      |
| Algeria               | 30          | 31          | 30 <sup>e</sup>  |
| Australia             | 13          | 15          | 6                |
| Bolivia               | 30          | 26          | 47               |
| Canada <sup>e</sup>   | 25          | 25          | 25               |
| China                 | 3500        | 4100        | 3000             |
| Germany               | 45          | 88          | 45               |
| India                 | 1171        | 911         | 900 <sup>e</sup> |
| Iran                  | 436         | 441         | 290              |
| Kazakhstan            | 530         | 200         | 210              |
| Laos                  | 27          | 46          | 92               |
| Mexico                | 119         | 131         | 200              |
| Morocco               | 1095        | 1007        | 1212             |
| Myanmar               | 31          | 23          | 2 <sup>e</sup>   |
| Pakistan              | 118         | 134         | 205              |
| Peru                  | 52          | 106         | 53 <sup>e</sup>  |
| Russia <sup>e</sup>   | 64          | 45          | 60               |
| Saudi Arabia          | 30          | 32          | 43               |
| Slovakia              | 24          | 21          | 20               |
| Thailand              | 107         | 135         | 171              |
| Turkey <sup>e</sup>   | 250         | 340         | 310              |
| UK <sup>e</sup>       | 30          | 44          | 50               |
| USA                   | 723         | 663         | 700 <sup>e</sup> |
| Vietnam               | 90          | 140         | 140              |
| Other countries       | 27          | 50          | 92               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

\*\* :- World total rounded off and not at actuals, hence may not tally

### World Production of Bentonite

#### (By Principal Countries)

(In '000 tonnes )

| Country                | 2013         | 2014             | 2015              |
|------------------------|--------------|------------------|-------------------|
| <b>World Total**</b>   | <b>16100</b> | <b>16600</b>     | <b>18400</b>      |
| Argentina <sup>e</sup> | 200          | 200              | 200               |
| Brazil                 | 403          | 405              | 400 <sup>e</sup>  |
| China <sup>e</sup>     | 3600         | 3500             | 3500              |
| Cyprus                 | 158          | 140              | 127               |
| Czech Republic         | 226          | 301              | 369               |
| Germany                | 359          | 395              | 395 <sup>e</sup>  |
| Greece                 | 1000         | 1011             | 1150              |
| India <sup>e</sup>     | 1305         | 1327             | 1466              |
| Iran                   | 502          | 403              | 430               |
| Japan <sup>e</sup>     | 420          | 420              | 420               |
| Mexico                 | 827          | 474              | 470 <sup>e</sup>  |
| Morocco                | 105          | 99               | 92                |
| Russia <sup>e</sup>    | 460          | 460              | 460               |
| Slovakia               | 184          | 205              | 205               |
| South Africa           | 177          | 170              | 164               |
| Spain                  | 103          | 106              | 102               |
| Thailand               | 150          | 150 <sup>e</sup> | 150 <sup>e</sup>  |
| Turkey                 | 623          | 1088             | 3135              |
| USA                    | 4350         | 4800             | 4320 <sup>e</sup> |
| Ukraine <sup>e</sup>   | 219          | 219              | 219               |
| Other countries        | 687          | 737              | 672               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

\*\* :- World total rounded off not at actuals, hence may not tally

**Production of Borates  
(By Principal Countries)**

| (In '000 tonnes )      |             |             |             |
|------------------------|-------------|-------------|-------------|
| Country                | 2013        | 2014        | 2015        |
| <b>World Total**</b>   | <b>5123</b> | <b>6513</b> | <b>6039</b> |
| Argentina <sup>e</sup> | 670         | 740         | 770         |
| Bolivia                | 157         | 152         | 166         |
| Chile                  | 581         | 497         | 518         |
| China <sup>e b</sup>   | 160         | 160         | 160         |
| Peru                   | 224         | 240         | 663         |
| Russia <sup>e</sup>    | 250         | 250         | 250         |
| Turkey                 | 1748        | 3143        | 2181        |
| USA <sup>e</sup>       | 1300        | 1300        | 1300        |
| Other countries        | 32          | 31          | 31          |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

b. B<sub>2</sub>O<sub>3</sub> equivalent

\*\* :- World total at actuals

**Production of Cadmium**  
**(By principal Countries)**

( In tonnes )

| Country                  | 2013         | 2014              | 2015              |
|--------------------------|--------------|-------------------|-------------------|
| <b>World Total**</b>     | <b>22800</b> | <b>25500</b>      | <b>24900</b>      |
| Australia <sup>e</sup>   | 380          | 380               | 380               |
| Bulgaria                 | 411          | 382               | 380               |
| Canada                   | 1313         | 1187              | 1159              |
| China                    | 7496         | 8201              | 8200 <sup>e</sup> |
| Germany <sup>e</sup>     | 400          | 400               | 400               |
| India                    | 228          | 69                | 0                 |
| Japan                    | 1821         | 1851              | 1959              |
| Kazakhstan               | 1335         | 1633              | 1475              |
| Korea (Rep. of)          | 3904         | 5645              | 5600 <sup>e</sup> |
| Mexico                   | 1451         | 1409              | 1301              |
| Netherlands <sup>e</sup> | 610          | 620               | 620               |
| Norway <sup>e</sup>      | 310          | 310               | 310               |
| Peru                     | 695          | 769               | 757               |
| Poland                   | 460          | 628               | 383               |
| Russia                   | 900          | 1000 <sup>e</sup> | 1000 <sup>e</sup> |
| USA <sup>e</sup>         | 600          | 550               | 500               |
| Other countries          | 481          | 473               | 479               |

Source :World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. estimated

\*\* :- World total rounded off and not at actuals, hence may not tally

**World Production of Cement<sup>e</sup>**  
**(By Principal Countries)**

(In '000 tonnes)

| Country              | 2013           | 2014           | 2015           |
|----------------------|----------------|----------------|----------------|
| <b>World Total**</b> | <b>4048000</b> | <b>4180000</b> | <b>4100000</b> |
| Brazil               | 70000          | 72000          | 65300          |
| China                | 2420000        | 2480000        | 2350000        |
| Egypt                | 50000          | 50000          | 55000          |
| Germany              | 31300          | 32000          | -              |
| India                | 280000         | 260000         | 300000         |
| Indonesia            | 56000          | 65000          | 58000          |
| Iran                 | 72000          | 65000          | 58600          |
| Italy                | 22000          | 22000          | -              |
| Japan                | 57400          | 53800          | 54800          |
| Korea, Rep. of       | 47300          | 63200          | 51700          |
| Mexico               | 34600          | 35000          | -              |
| Pakistan             | 31000          | 32000          | -              |
| Russia               | 66400          | 68400          | 62100          |
| Saudi Arabia         | 57000          | 55000          | 61900          |
| Thailand             | 42000          | 35000          | -              |
| Turkey               | 71300          | 75000          | 71400          |
| USA*                 | 77400          | 83200          | 84300          |
| Vietnam              | 58000          | 60500          | 67400          |
| Other countries      | 536000         | 573000         | 760000         |

Source: Mineral Commodity Summaries, 2016 & 2017.

<https://minerals.usgs.gov/minerals/pubs/mcs>

e- Estimated.

\* Includes Puerto Rico

\*\* :- World total rounded off not at actuals, hence may not tally

**World Production of Chromium Ores  
and Concentrates  
(By Principal Countries)**

|                       | (In '000 tonnes ) |              |                   |
|-----------------------|-------------------|--------------|-------------------|
| Country               | 2013              | 2014         | 2015              |
| <b>World Total**</b>  | <b>31000</b>      | <b>33300</b> | <b>35300</b>      |
| Albania               | 530               | 684          | 640               |
| Australia             | 355               | 0            | 0                 |
| Brazil                | 486               | 717          | 700 <sup>e</sup>  |
| China <sup>e</sup>    | 200               | 200          | 200               |
| Finland <sup>a</sup>  | 982               | 1035         | 946               |
| India                 | 2878              | 2164         | 2894              |
| Iran                  | 344               | 359          | 350               |
| Kazakhstan            | 5255              | 5411         | 5383              |
| Oman                  | 788               | 751          | 443               |
| Pakistan <sup>e</sup> | 490               | 350          | 330               |
| Russia                | 360               | 380          | 380 <sup>e</sup>  |
| South Africa          | 13645             | 14038        | 15684             |
| Turkey                | 4141              | 6611         | 6600 <sup>e</sup> |
| Zimbabwe              | 355               | 408          | 443 <sup>e</sup>  |
| Other countries       | 206               | 221          | 258               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- estimated                      a:- concentrates

\*\* :- World total rounded off and not at actuals, hence may not tally

**World Production of Coal and Lignite**  
**(By Principal Countries)**

(In million tonnes )

| Country                             | 2013        | 2014        | 2015            |
|-------------------------------------|-------------|-------------|-----------------|
| <b>World Total**</b>                | <b>8226</b> | <b>8165</b> | <b>7860</b>     |
| <b>Australia</b>                    |             |             |                 |
| Bituminous                          | 411         | 442         | 440             |
| Brown coal                          | 60          | 58          | 58 <sup>e</sup> |
| <b>Bosnia &amp; Herzegovina</b>     |             |             |                 |
| Brown coal & lignite                | 12          | 12          | 12              |
| <b>Bulgaria</b>                     |             |             |                 |
| Brown coal & Lignite                | 28          | 31          | 36              |
| <b>Canada</b>                       |             |             |                 |
| Hard coal                           | 60          | 59          | 52              |
| Lignite                             | 9           | 9           | 10              |
| <b>China</b>                        |             |             |                 |
| Hard Coal                           | 3974        | 3874        | 3685            |
| <b>Colombia</b>                     |             |             |                 |
| Bituminous                          | 85          | 89          | 86              |
| <b>Czech Republic</b>               |             |             |                 |
| Bituminous                          | 9           | 8           | 8               |
| Brown coal                          | 41          | 38          | 38              |
| <b>Germany</b>                      |             |             |                 |
| Anthracite & Bituminous             | 8           | 8           | 7               |
| Brown coal                          | 183         | 178         | 178             |
| <b>Greece</b>                       |             |             |                 |
| Lignite                             | 56          | 50          | 46              |
| <b>India</b>                        |             |             |                 |
| Bituminous                          | 566         | 609         | 639             |
| Lignite                             | 44          | 48          | 44              |
| <b>Indonesia</b>                    |             |             |                 |
| Anthracite & Bituminous             | 475         | 458         | 462             |
| <b>Kazakhstan</b>                   |             |             |                 |
| Bituminous                          | 113         | 108         | 102             |
| Lignite                             | 7           | 7           | 6               |
| <b>Korea, Dem. P.R.<sup>e</sup></b> |             |             |                 |
| Coal                                | 42          | 41          | 41              |
| <b>Mexico</b>                       |             |             |                 |
| Bituminous                          | 16          | 16          | 9               |

| Country                                     | 2013 | 2014 | 2015 |
|---------------------------------------------|------|------|------|
| <b>Mongolia</b>                             |      |      |      |
| Brown coal & lignite                        | 33   | 24   | 24   |
| <b>Poland</b>                               |      |      |      |
| Bituminous                                  | 68   | 66   | 65   |
| Lignite                                     | 66   | 64   | 63   |
| <b>Romania</b>                              |      |      |      |
| Anthracite & Bituminous                     | 2    | 2    | 1    |
| Lignite                                     | 23   | 23   | 25   |
| <b>Russia</b>                               |      |      |      |
| Coal                                        | 347  | 356  | 372  |
| <b>Serbia</b>                               |      |      |      |
| Lignite                                     | 40   | 29   | 37   |
| <b>South Africa</b>                         |      |      |      |
| Hard coal                                   | 256  | 261  | 252  |
| <b>Thailand</b>                             |      |      |      |
| Lignite                                     | 18   | 18   | 15   |
| <b>Turkey</b>                               |      |      |      |
| Anthracite                                  | 3    | 2    | 2    |
| Lignite                                     | 66   | 71   | 58   |
| <b>USA</b>                                  |      |      |      |
| Hard coal                                   | 823  | 836  | 749  |
| Lignite                                     | 70   | 72   | 65   |
| <b>Ukraine</b>                              |      |      |      |
| Bituminous                                  | 64   | 46   | 30   |
| <b>UK</b>                                   |      |      |      |
| Bituminous                                  | 13   | 12   | 9    |
| <b>Vietnam</b>                              |      |      |      |
| Anthracite                                  | 41   | 41   | 42   |
| <b>Other countries (Coal &amp; Lignite)</b> | 93   | 98   | 95   |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

Hard Coal :- Including Anthracite, Bituminous &

Sub-bituminous

\*\* :- World Total rounded off and not at actuals, hence may not tally



**Production of Cobalt  
(By Principal countries)**

|                        | (In tonnes of metal content) |               |               |
|------------------------|------------------------------|---------------|---------------|
| Country                | 2013                         | 2014          | 2015          |
| <b>World Total**</b>   | <b>137000</b>                | <b>134000</b> | <b>148000</b> |
| Australia              | 6385                         | 5832          | 6031          |
| Brazil                 | 3500                         | 3838          | 3800          |
| Canada                 | 7168                         | 6907          | 7489          |
| China                  | 8580                         | 9619          | 9600          |
| Congo, Dem.P.R.        | 76593                        | 74712         | 83529         |
| Cuba                   | 3319                         | 3210          | 3734          |
| Finland                | 2061                         | 2104          | 2119          |
| Indonesia <sup>e</sup> | 4700                         | 329           | 350           |
| Madagascar             | 2340                         | 3221          | 3920          |
| Morocco                | 1353                         | 1391          | 1722          |
| New Caledonia          | 7414                         | 8239          | 11210         |
| Papua New Guinea       | 1224                         | 1798          | 2505          |
| Philippines            | 2126                         | 4094          | 4140          |
| Russia <sup>a</sup>    | 2368                         | 2302          | 2040          |
| Zambia <sup>a</sup>    | 5658                         | 4317          | 2997          |
| Other countries        | 2042                         | 2229          | 3095          |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

a:- Metal

\*\* :- World production rounded off and not at actuals,  
hence may not tally

**Mine Production of Copper  
(By Principal Countries)**

(In '000 tonnes of metal content)

| Country              | 2013         | 2014             | 2015             |
|----------------------|--------------|------------------|------------------|
| <b>World Total**</b> | <b>18300</b> | <b>18500</b>     | <b>19200</b>     |
| Australia            | 1001         | 966              | 964              |
| Brazil               | 271          | 301              | 346              |
| Canada               | 653          | 673              | 697              |
| Chile                | 5776         | 5750             | 5764             |
| China                | 1715         | 1777             | 1706             |
| Congo, Dem. P.       | 922          | 1030             | 1039             |
| Indonesia            | 509          | 377              | 577              |
| Iran                 | 223          | 217              | 245              |
| Kazakhstan           | 454          | 472              | 474              |
| Mexico               | 480          | 515              | 540              |
| Peru                 | 1376         | 1378             | 1701             |
| Poland               | 429          | 421              | 426              |
| Russia               | 725          | 740 <sup>e</sup> | 740 <sup>e</sup> |
| USA                  | 1250         | 1360             | 1380             |
| Zambia               | 760          | 707              | 719              |
| Other countries      | 1757         | 1851             | 1833             |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

\*\* :- World Total rounded off and not at actuals,  
hence may not tally

**World Production of Diamond**  
**(By Principal Countries)**

(In '000 carats )

| Country              | 2013          | 2014          | 2015          |
|----------------------|---------------|---------------|---------------|
| <b>World Total**</b> | <b>130000</b> | <b>124500</b> | <b>126600</b> |
| Angola               | 8599          | 8791          | 9016          |
| Australia            | 11482         | 9288          | 13561         |
| Botswana             | 22597         | 24658         | 20824         |
| Canada               | 10562         | 12082         | 11600         |
| Congo, Dem. Rep.     | 16653         | 14689         | 14284         |
| Ghana                | 159           | 241           | 174           |
| Guinea               | 202           | 164           | 162           |
| Lesotho              | 414           | 346           | 304           |
| Namibia              | 1776          | 1898          | 1988          |
| Russia               | 37884         | 38304         | 41912         |
| Sierra Leone         | 605           | 594           | 500           |
| South Africa         | 8168          | 8060          | 8233          |
| Zimbabwe             | 10412         | 4772          | 3491          |
| Other countries      | 441           | 581           | 529           |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

\*\* :- World Total rounded off and not at actuals,

hence may not tally

**World Production of Diatomite**  
**(By Principal Countries)**

(In '000 tonnes )

| Country                      | 2013            | 2014             | 2015             |
|------------------------------|-----------------|------------------|------------------|
| <b>World Total**</b>         | <b>2373</b>     | <b>2546</b>      | <b>2374</b>      |
| Argentina                    | 209             | 200 <sup>e</sup> | 200 <sup>e</sup> |
| China <sup>e</sup>           | 420             | 420              | 420              |
| Denmark (Molar) <sup>a</sup> | 128             | 119              | 128              |
| France <sup>e</sup>          | 85              | 90               | 90               |
| Japan <sup>e</sup>           | 90              | 90               | 100              |
| Mexico                       | 87              | 88               | 88               |
| Peru                         | 125             | 151              | 121              |
| Russia                       | 70 <sup>e</sup> | 72               | 70 <sup>e</sup>  |
| Spain <sup>b</sup>           | 54              | 60               | 62               |
| Turkey                       | 85              | 62               | 87               |
| USA                          | 782             | 901              | 832              |
| Other countries              | 238             | 294              | 177              |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated                      b:- Including tripoli

a:- Molar is an impure diatomite containing a large proportion of clay.

\*\* :- World Total at actuals

**World Production of Felspar  
(By Principal Countries)**

(In '000 tonnes )

| Country                | 2013             | 2014         | 2015              |
|------------------------|------------------|--------------|-------------------|
| <b>World Total**</b>   | <b>24808</b>     | <b>25730</b> | <b>26150</b>      |
| Algeria                | 259              | 230          | 230 <sup>e</sup>  |
| Argentina <sup>e</sup> | 230              | 200          | 200               |
| Brazil                 | 294              | 718          | 700 <sup>e</sup>  |
| China <sup>e</sup>     | 2500             | 2500         | 2500              |
| Czech Republic         | 411              | 422          | 433               |
| Ecuador                | 210              | 183          | 247               |
| Egypt <sup>e</sup>     | 400              | 200          | 300               |
| France <sup>e</sup>    | 550              | 550          | 550               |
| Germany                | 350 <sup>e</sup> | 320          | 317               |
| India                  | 1513             | 1343         | 1300 <sup>e</sup> |
| Iran                   | 1045             | 1055         | 1000 <sup>e</sup> |
| Italy <sup>e</sup>     | 4700             | 4700         | 4700              |
| Japan <sup>e,f</sup>   | 100              | 100          | 100               |
| Korea, Rep. of         | 343              | 529          | 601               |
| Malaysia               | 314              | 377          | 443               |
| Mexico                 | 164              | 151          | 154               |
| Poland                 | 483              | 520          | 540               |
| Portugal               | 139              | 136          | 179               |
| Russia <sup>e</sup>    | 160              | 160          | 160               |
| Saudi Arabia           | 160              | 168          | 176               |
| South Africa           | 191              | 103          | 127               |
| Spain                  | 593              | 533          | 550 <sup>e</sup>  |
| Thailand               | 1073             | 1413         | 1330              |
| Turkey                 | 7091             | 7610         | 7961              |
| USA                    | 550              | 530          | 510 <sup>e</sup>  |
| Vietnam <sup>e</sup>   | 200              | 200          | 200               |
| Other countries        | 784              | 778          | 643               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

f :- Including weathered granite felspar

\*\* :- World Total at actuals.

**World Production of Fluorspar  
(By Principal Countries)**

(In '000 tonnes )

| Country                   | 2013            | 2014             | 2015             |
|---------------------------|-----------------|------------------|------------------|
| <b>World Total**</b>      | <b>6500</b>     | <b>6400</b>      | <b>6400</b>      |
| Argentina <sup>e</sup>    | 23              | 23               | 23               |
| Brazil <sup>b</sup>       | 28              | 24               | 25 <sup>e</sup>  |
| Bulgaria                  | 83              | 131              | 147              |
| China <sup>e</sup>        | 4000            | 3800             | 3800             |
| Germany                   | 49              | 58               | 50               |
| Iran                      | 56              | 54               | 60 <sup>e</sup>  |
| Kazakhstan <sup>e</sup>   | 110             | 100              | 100              |
| Kenya                     | 72              | 97               | 70               |
| Mexico                    | 1210            | 1110             | 1096             |
| Mongolia                  | 338             | 338 <sup>e</sup> | 338 <sup>e</sup> |
| Morocco                   | 81              | 80               | 81               |
| Namibia                   | 63 <sup>e</sup> | 29               | 0                |
| South Africa <sup>e</sup> | 175             | 285              | 200              |
| Spain                     | 129             | 135              | 135              |
| Vietnam                   | 4 <sup>e</sup>  | 91               | 193              |
| Other countries           | 99              | 57               | 60               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

b:- Including beneficiated and directly shipped material

\*\* :- World Total rounded off and not at actuals, hence may not tally.

**World Production of Fuller's Earth**  
**(By Principal Countries)**

(In '000 tonnes )

| Country                          | 2013        | 2014            | 2015              |
|----------------------------------|-------------|-----------------|-------------------|
| <b>World total<sup>a**</sup></b> | <b>3400</b> | <b>3200</b>     | <b>3300</b>       |
| Angola                           | 98          | 0               | 0                 |
| Australia                        | 11          | 10              | 16                |
| Greece                           |             |                 |                   |
| Attapulgit                       | 32          | 45              | 108               |
| India <sup>c</sup>               | 6           | 6               | 6                 |
| Korea, Rep. of                   | 51          | 54              | 87                |
| Mexico                           | 307         | 245             | 240 <sup>c</sup>  |
| Morocco <sup>c</sup>             | 59          | 60 <sup>c</sup> | 60 <sup>c</sup>   |
| Pakistan                         | 4           | 6               | 8                 |
| Senegal                          |             |                 |                   |
| Attapulgit                       | 235         | 191             | 188               |
| South Africa                     |             |                 |                   |
| Attapulgit                       | 21          | 18              | 18                |
| Spain                            |             |                 |                   |
| ( Attapulgit +<br>Sepiolite )    | 626         | 582             | 586               |
| Turkey <sup>c</sup>              |             |                 |                   |
| Sepiolite                        | 10          | 10              | 10                |
| USA                              | 1990        | 1990            | 1970 <sup>c</sup> |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

c:- Estimated

a:- Including attapulgit and sepiolite

c :- Smectite

**\*\*** :- World Total rounded off and not at actuals,  
hence may not tally.

### Mine Production of Gallium

(By principal Countries)

( In tonnes )

| Country             | 2013 | 2014 | 2015 |
|---------------------|------|------|------|
| China <sup>e</sup>  | 300  | 400  | 400  |
| Germany             | 38   | 16   | 11   |
| Japan               | 8    | 8    | 5    |
| Russia <sup>e</sup> | 13   | 13   | 13   |

Source :World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. estimated



**World Production of Garnet (Industrial)  
(By Principal Countries)**

|                      | (In tonnes )   |                |                |
|----------------------|----------------|----------------|----------------|
| <b>Country</b>       | <b>2013</b>    | <b>2014</b>    | <b>2015</b>    |
| <b>World Total**</b> | <b>1660000</b> | <b>1660000</b> | <b>1690000</b> |
| Australia            | 263000         | 260000         | 260000         |
| China                | 510000         | 520000         | 520000         |
| India                | 800000         | 800000         | 800000         |
| USA                  | 33900          | 32200          | 55600          |
| Other countries      | 50000          | 50000          | 50000          |

**Source :Mineral Commodity Summaries-2016 & 2017**

<https://minerals.usgs.gov/minerals/pubs/mcs>

**\*\* :- World Total rounded off and not at actuals,  
hence may not tally.**

**World Mine Production of Gold**  
**(By Principal Countries)**

| (In tonnes of metal content) |             |             |                 |
|------------------------------|-------------|-------------|-----------------|
| Country                      | 2013        | 2014        | 2015            |
| <b>World Total**</b>         | <b>3010</b> | <b>3070</b> | <b>3110</b>     |
| Argentina                    | 52          | 72          | 71              |
| Australia                    | 268         | 274         | 278             |
| Brazil                       | 80          | 81          | 80 <sup>e</sup> |
| Canada                       | 134         | 152         | 159             |
| Chile                        | 51          | 46          | 43              |
| China <sup>a</sup>           | 428         | 452         | 450             |
| Colombia                     | 56          | 57          | 59              |
| Ghana                        | 190         | 139         | 113             |
| Indonesia                    | 60          | 69          | 92              |
| Kazakhstan                   | 43          | 50          | 64              |
| Mali <sup>e</sup>            | 46          | 45          | 47              |
| Mexico                       | 120         | 118         | 125             |
| Papua New Guinea             | 56          | 58          | 60              |
| Peru                         | 151         | 140         | 145             |
| Russia                       | 230         | 249         | 256             |
| South Africa                 | 160         | 152         | 145             |
| Sudan                        | 70          | 73          | 82              |
| Tanzania                     | 43          | 41          | 46              |
| USA                          | 228         | 210         | 212             |
| Uzbekistan <sup>e</sup>      | 90          | 102         | 102             |
| Other countries              | 458         | 485         | 483             |

Source:- World Mineral Production,2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- estimated                      a:- Metal production

\*\* :- World Total rounded off and not at actuals,  
hence may not tally.

**Production of Graphite (Natural)**  
**(By Principal Countries)**

(In '000 tonnes )

| Country                       | 2013        | 2014            | 2015            |
|-------------------------------|-------------|-----------------|-----------------|
| <b>World Total**</b>          | <b>2200</b> | <b>2200</b>     | <b>2200</b>     |
| Austria*                      | 17          | 23              | 22              |
| Brazil <sup>a</sup>           | 92          | 87              | 75              |
| Canada <sup>e</sup>           | 20          | 30              | 30              |
| China <sup>e #</sup>          | 1800        | 1800            | 1800            |
| India*                        | 146         | 117             | 135             |
| Korea, Dem. P.R. <sup>e</sup> | 10          | 10              | 10              |
| Russia <sup>e</sup>           | 14          | 14              | 14              |
| Turkey                        | 29          | 28 <sup>e</sup> | 32 <sup>e</sup> |
| Ukraine                       | 7           | 14              | 15              |
| Other countries               | 36          | 48              | 39              |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

a-Including beneficiated and directly shipped material.

# - Including flake graphite

\* - crude

\*\* :- World Total rounded off and not at actuals,

hence may not tally.

**World Production of Gypsum  
(By Principal Countries)**

(In '000 tonnes )

| Country                | 2013          | 2014               | 2015               |
|------------------------|---------------|--------------------|--------------------|
| <b>World Total**</b>   | <b>265200</b> | <b>263500</b>      | <b>268200</b>      |
| Algeria                | 2078          | 2130               | 2000 <sup>e</sup>  |
| Argentina <sup>e</sup> | 1450          | 1500               | 1500               |
| Australia              | 3589          | 3624               | 4065 <sup>e</sup>  |
| Austria <sup>a</sup>   | 635           | 730                | 715                |
| Brazil                 | 3333          | 3447               | 3500 <sup>e</sup>  |
| Canada <sup>a</sup>    | 2654          | 1811               | 1633               |
| Chile                  | 1015          | 843                | 860                |
| China <sup>e</sup>     | 129000        | 130000             | 132000             |
| Egypt <sup>a</sup>     | 941           | 872                | 850 <sup>e</sup>   |
| France <sup>a</sup>    | 2079          | 1908               | 1808               |
| Germany <sup>a</sup>   | 1778          | 4090               | 4200               |
| India*                 | 3116          | 2478               | 2500 <sup>e</sup>  |
| Iran                   | 17354         | 14870              | 22000 <sup>e</sup> |
| Iraq                   | 10462         | 10462 <sup>e</sup> | 10460 <sup>e</sup> |
| Italy <sup>a</sup>     | 3192          | 5887               | 421                |
| Japan                  | 4771          | 4674               | 5000 <sup>e</sup>  |
| Mexico                 | 7903          | 7044               | 7100 <sup>e</sup>  |
| Oman                   | 2785          | 3387               | 6181               |
| Pakistan               | 1250          | 1326               | 1417               |
| Poland <sup>a</sup>    | 1270          | 1232               | 1099               |
| Russia <sup>e</sup>    | 5100          | 5300               | 4500               |
| Saudi Arabia           | 1700          | 1780               | 1860               |
| Spain                  | 7389          | 6925               | 7100               |
| Thailand <sup>a</sup>  | 13647         | 13422              | 12143              |
| Turkey                 | 9790          | 9051               | 8639               |
| USA                    | 12900         | 11000              | 11500 <sup>e</sup> |
| Ukraine <sup>a</sup>   | 2175          | 1525               | 1255               |
| UK <sup>e</sup>        | 1200          | 1200               | 1200               |
| Other countries        | 10664         | 10985              | 10702              |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated      a:- Including anhydrite

\*:- Including selenite

\*\* :- World Total rounded off and not at actuals,  
hence may not tally.

**World Production of Ilmenite**  
**(By Principal Countries)**

|                           | (In '000 tonnes ) |                  |                  |
|---------------------------|-------------------|------------------|------------------|
| Country                   | 2013              | 2014             | 2015             |
| <b>World Total**</b>      | <b>12100</b>      | <b>11300</b>     | <b>10300</b>     |
| <b>Australia</b>          |                   |                  |                  |
| Ilmenite                  | 1314              | 1138             | 1005             |
| Leucoxene                 | 226               | 241              | 246              |
| Canada <sup>e a</sup>     | 2800              | 2500             | 1900             |
| China <sup>e</sup>        | 1700              | 1600             | 1600             |
| India                     | 722               | 720 <sup>e</sup> | 720 <sup>e</sup> |
| Korea Rep. of             | 230               | 241              | 204              |
| Madagascar                | 562               | 334              | 200 <sup>e</sup> |
| Mozambique                | 720               | 855              | 764              |
| Norway                    | 826               | 864              | 630              |
| Russia                    | 150               | 178              | 193              |
| Senegal                   | 0                 | 101              | 428              |
| South Africa <sup>e</sup> | 1070              | 1105             | 1000             |
| Ukraine <sup>e</sup>      | 600               | 600              | 600              |
| USA <sup>e</sup>          | 200               | 100              | 100              |
| Vietnam                   | 1026              | 558              | 282              |
| Other countries           | 189               | 440              | 624              |

Source:- World Mineral Production,2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

Some ilmenite is converted to synthetic rutile in Australia, India, Japan and USA

a:- Canada produces some ilmenite which is sold as such and not processed in to slag, but tonnages are small

e:- estimated

\*\* :- World Total rounded off and not at actuals, hence may not tally.

**World Production of Iron Ore  
(By Principal Countries)**

(In million tonnes)

| Country                   | 2013        | 2014        | 2015            |
|---------------------------|-------------|-------------|-----------------|
| <b>World Total #</b>      | <b>3195</b> | <b>3415</b> | <b>3328</b>     |
| Australia                 | 616         | 751         | 817             |
| Brazil                    | 317         | 346         | 389             |
| Canada*                   | 43          | 44          | 46              |
| Chile                     | 17          | 19          | 15              |
| China                     | 1451        | 1514        | 1381            |
| India                     | 152         | 129         | 156             |
| Iran                      | 57          | 69          | 58 <sup>e</sup> |
| Kazakhstan                | 52          | 52          | 37              |
| Mauritania                | 13          | 13          | 12              |
| Mexico                    | 29          | 25          | 21              |
| Norway                    | 10          | 11          | 11 <sup>e</sup> |
| Russia                    | 102         | 102         | 101             |
| South Africa <sup>a</sup> | 72          | 81          | 73              |
| Sweden                    | 37          | 36          | 30              |
| USA**                     | 53          | 56          | 43              |
| Ukraine                   | 70          | 68          | 67              |
| Venezuela                 | 11          | 11          | 12              |
| Other countries           | 95          | 88          | 59              |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

\* : Including by-product iron ore.

a: Including by-product magnetite.

\*\* : Including by-product iron ore and beneficiated  
and direct shipping ore

# :- World Total at actuals.

**World Production of Pig Iron  
(By Principal Countries)**

(In '000 tonnes )

| Country              | 2013           | 2014               | 2015               |
|----------------------|----------------|--------------------|--------------------|
| <b>World Total**</b> | <b>1245000</b> | <b>1263000</b>     | <b>1230000</b>     |
| Brazil               | 31552          | 32000 <sup>e</sup> | 33000 <sup>e</sup> |
| China                | 711499         | 713748             | 691415             |
| France               | 10276          | 10866              | 10097              |
| Germany              | 26678          | 27943              | 27844              |
| India                | 68252          | 75532              | 74621              |
| Iran                 | 16465          | 17333              | 17005              |
| Japan                | 83849          | 83872              | 81011              |
| Korea Rep. of        | 41045          | 46909              | 47639              |
| Mexico               | 11011          | 11093              | 10555              |
| Russia               | 50000          | 51400              | 53700              |
| Taiwan               | 13300          | 14505              | 14370              |
| Turkey               | 19548          | 20000 <sup>e</sup> | 20000 <sup>e</sup> |
| USA                  | 30381          | 29345              | 26000 <sup>e</sup> |
| Ukraine              | 29089          | 24801              | 21863              |
| Other countries      | 102431         | 103740             | 100756             |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

\*\* :- World Total rounded off and not at actuals,  
hence may not tally.

**World Production of Crude Steel  
(By Principal Countries)**

(In '000 tonnes )

| Country              | 2013           | 2014           | 2015               |
|----------------------|----------------|----------------|--------------------|
| <b>World Total**</b> | <b>1642000</b> | <b>1669000</b> | <b>1620000</b>     |
| Brazil               | 34163          | 33912          | 33200              |
| Canada               | 12349          | 12595          | 12473              |
| China                | 813139         | 822306         | 803823             |
| France               | 15685          | 16144          | 14984              |
| Germany              | 42645          | 42943          | 42674              |
| India                | 81690          | 88980          | 89790              |
| Iran                 | 15631          | 14308          | 14340 <sup>e</sup> |
| Italy                | 24093          | 23714          | 22018              |
| Japan                | 110595         | 110666         | 105134             |
| Korea, Rep. of       | 66061          | 71542          | 69670              |
| Mexico               | 18242          | 18995          | 18228              |
| Russia               | 68800          | 70300          | 69400              |
| Spain                | 14252          | 14163          | 14845              |
| Taiwan               | 21466          | 22511          | 21000              |
| Turkey               | 34654          | 34035          | 31517              |
| USA                  | 86878          | 88347          | 81000 <sup>e</sup> |
| Ukraine              | 33199          | 27373          | 23166              |
| UK                   | 11858          | 12034          | 10907              |
| Other countries      | 136898         | 143723         | 141823             |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

\*\* :- World Total rounded off and not at actuals,  
hence may not tally



**World Production of Ferro Alloys  
(By Principal Countries)**

(In tonnes )

| Country   | Ferro Alloys                    | 2013     | 2014                | 2015                |
|-----------|---------------------------------|----------|---------------------|---------------------|
| Australia | FeMn & FeSiMn                   | 234000   | 269000              | 278000              |
| Brazil    | FeCr                            | 174200   | 188700              | 173500              |
|           | FeMn                            | 83348    | 80000 <sup>e</sup>  | 40000 <sup>e</sup>  |
|           | FeNi                            | 34500    | 37200               | 71500               |
|           | FeNb                            | 46600    | 51700               | 150000              |
|           | FeSiCr                          | 13184    | 13000 <sup>e</sup>  | 13000 <sup>e</sup>  |
|           | FeSiMg <sup>e</sup>             | 20000    | 20000               | 20000               |
|           | FeSiMn                          | 227652   | 230000 <sup>e</sup> | 230000 <sup>e</sup> |
|           | FeSi                            | 158000   | 230000              | 200000 <sup>e</sup> |
|           | Other ferro-alloys <sup>e</sup> | 40000    | 40000               | 40000               |
| Canada    | FeNb                            | 7974     | 8485                | 8500 <sup>e</sup>   |
|           | FeSi                            | 38817    | 35500               | 35000 <sup>e</sup>  |
| China     | Ferro-alloys                    | 37762000 | 37860000            | 36664000            |
| Colombia  | FeNi                            | 137995   | 113000 <sup>e</sup> | 100500 <sup>e</sup> |
| Finland   | FeCr                            | 434000   | 441000              | 457000              |
| France    | FeMn                            | 104000   | 115700              | 116000 <sup>e</sup> |
|           | FeSiMn                          | 64900    | 64800               | 64800 <sup>e</sup>  |
|           | FeSi                            | 49600    | 40000               | 40000 <sup>e</sup>  |
| Georgia   | FeMn <sup>e</sup>               | 4500     | 4500                | 4500                |
|           | FeSiMn                          | 253361   | 243951              | 210680              |
|           | FeNi                            | 86850    | 94952               | 89129               |
| Iceland   | FeSi                            | 125204   | 109739              | 121556              |
| India     | FeAl                            | 5497     | 3737                | 3212                |
|           | FeCr                            | 944000   | 944000              | 944000              |
|           | FeMn                            | 518000   | 518000              | 518000              |
|           | FeMo                            | 1231     | 1295                | 1459                |
|           | FeSiMg                          | 21964    | 26123               | 20541               |
|           | FeSiMn                          | 225395   | 249691              | 269920              |
|           | FeSi                            | 90000    | 90000               | 90000               |
|           | FeTi                            | 821      | 545                 | 198                 |
|           | FeV                             | 906      | 1035                | 937                 |
|           | Other ferro-alloys <sup>e</sup> | 730      | 730                 | 730                 |

| <b>Country</b> | <b>Ferro Alloys</b>             | <b>2013</b> | <b>2014</b>          | <b>2015</b>          |
|----------------|---------------------------------|-------------|----------------------|----------------------|
| Indonesia      | FeNi                            | 91245       | 84255                | 86055                |
| Italy          | FeSiMn                          | 153000      | 67000                | 82000                |
| Japan          | FeMn                            | 460936      | 463345               | 465952               |
|                | FeNi                            | 402768      | 379291               | 396969               |
|                | FeSiMn                          | 24741       | 25000 <sup>e</sup>   | 25000 <sup>e</sup>   |
| Kazakhstan     | FeCr                            | 1337275     | 1351803              | 1414476              |
|                | FeSiCr                          | 165195      | 158825               | 74609                |
|                | FeSiMn                          | 203926      | 200379               | 164189               |
|                | FeSi                            | 470         | 470 <sup>e</sup>     | 470 <sup>e</sup>     |
| Korea, Rep. of | FeMn <sup>e</sup>               | 355000      | 355000               | 355000               |
|                | FeSiMn <sup>e</sup>             | 196000      | 196000               | 196000               |
|                | Other ferro-alloys <sup>e</sup> | 4200        | 4200                 | 4200                 |
| New Caledonia  | FeNi                            | 174078      | 224884               | 228484               |
| Norway         | FeMn                            | 320000      | 325000 <sup>e</sup>  | 350000 <sup>e</sup>  |
|                | FeSiMn <sup>e</sup>             | 250000      | 250000               | 250000               |
|                | FeSi                            | 337281      | 192389               | 243813               |
| Russia         | FeCr <sup>e</sup>               | 480000      | 480000               | 480000               |
|                | FeMn <sup>e</sup>               | 170000      | 170000               | 170000               |
|                | FeMo                            | 5297        | 4503                 | 4500 <sup>e</sup>    |
|                | FeNi <sup>e</sup>               | 20000       | 20000                | 20000                |
|                | FeSiCr <sup>e</sup>             | 4200        | 4200                 | 4200                 |
|                | FeSiMn <sup>e</sup>             | 148000      | 148000               | 148000               |
|                | FeSi <sup>e</sup>               | 1050000     | 1050000              | 1050000              |
|                | FeV                             | 14059       | 14076                | 14000 <sup>e</sup>   |
|                | Other ferro-alloys <sup>e</sup> | 34000       | 34000                | 34000                |
|                | Spiegeleisen <sup>e</sup>       | 7000        | 7000                 | 7000                 |
| South Africa   | FeCr                            | 3219000     | 3000000 <sup>e</sup> | 3000000 <sup>e</sup> |
|                | FeMn <sup>e</sup>               | 650000      | 650000               | 650000               |
|                | FeSiMn <sup>e</sup>             | 150000      | 150000               | 150000               |
|                | FeSi <sup>e</sup>               | 90000       | 90000                | 90000                |
|                | FeV <sup>e</sup>                | 16000       | 16000                | 16000                |
| Spain          | FeSiMn                          | 148500      | 149000 <sup>e</sup>  | 150000 <sup>e</sup>  |
| Sweden         | FeCr                            | 55078       | 65703                | 82616                |

| <b>Country</b> | <b>Ferro Alloys</b> | <b>2013</b> | <b>2014</b> | <b>2015</b>         |
|----------------|---------------------|-------------|-------------|---------------------|
| USA*           | Ferro-Alloys        | 468000      | 502000      | 525000 <sup>e</sup> |
| Ukraine        | FeMn                | 88626       | 104291      | 100209              |
|                | FeNi                | 121586      | 114222      | 95209               |
|                | FeSiMn              | 724892      | 960657      | 750181              |
|                | FeSi                | 191207      | 167977      | 114826              |
|                | Other ferro-alloys  | 15908       | 15326       | 19360               |
| Venezuela      | FeMn <sup>e</sup>   | 12000       | 12000       | 12000               |
|                | FeNi <sup>e</sup>   | 50000       | 50000       | 50000               |
|                | FeSiMn <sup>e</sup> | 14200       | 14000       | 14000               |
|                | FeSi <sup>e</sup>   | 74300       | 80000       | 80000               |
| Zimbabwe       | FeCr                | 150060      | 214110      | 220000 <sup>e</sup> |

Source: World Mineral Production, 2010-14

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e- Estimated.

Note:- FeAl: Ferro-aluminium , FeCr : Ferro-chrome

FeSiCr : Ferro-silico-chrome, FeSiMg : Ferro-silico-magnesium

FeMn : Ferro-manganese, FeSiMn : Ferro-silico-manganese

FeMo : Ferro-molybdenum, FeNi : Ferro-nickle

FeNb : Ferro-niobium, FeSi : Ferro-silicon

FeTi : Ferro-titanium, FeV : Ferro-vanadium

\* Ferro-silicon & silicon metal

**World Production of Kaolin**  
**(By Principal Countries)**

(In '000 tonnes )

| Country              | 2013              | 2014         | 2015              |
|----------------------|-------------------|--------------|-------------------|
| <b>World Total**</b> | <b>23900</b>      | <b>24300</b> | <b>25300</b>      |
| Belgium <sup>e</sup> | 300               | 300          | 300               |
| Brazil               | 2139              | 2055         | 1700              |
| China <sup>e</sup>   | 3300              | 3300         | 3300              |
| Czech Republic       | 609               | 617          | 648               |
| Egypt <sup>e</sup>   | 300               | 300          | 300               |
| France               | 300               | 311          | 310 <sup>e</sup>  |
| Germany              | 1100 <sup>e</sup> | 1100         | 1100              |
| Iran                 | 1000 <sup>e</sup> | 1880         | 1500 <sup>e</sup> |
| Korea, Rep. of       | 847               | 683          | 588               |
| Malaysia             | 293               | 220          | 295               |
| Mexico               | 670               | 546          | 500 <sup>e</sup>  |
| Portugal             | 248               | 269          | 247               |
| Spain                | 411               | 344          | 350               |
| Turkey               | 1027              | 734          | 2032              |
| USA                  | 6140              | 6310         | 6160 <sup>e</sup> |
| Ukraine              | 1179              | 1426         | 1815              |
| Vietnam <sup>e</sup> | 650               | 650          | 650               |
| Other countries      | 2276              | 2166         | 2474              |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

\*\* :- World Total rounded off and not at actuals,  
hence may not tally.

**Production of Kyanite and Related Minerals  
(By Principal Countries)**

|                         | (In tonnes ) |                     |                     |
|-------------------------|--------------|---------------------|---------------------|
| Country                 | 2013         | 2014                | 2015                |
| Brazil                  |              |                     |                     |
| Kyanite <sup>e b</sup>  | 200          | 200                 | 200                 |
| France                  |              |                     |                     |
| Andalusite <sup>e</sup> | 68000        | 68000               | 68000               |
| India                   |              |                     |                     |
| Kyanite                 | 3679         | 6255                | 2901                |
| Sillimanite             | 67265        | 66273               | 70447               |
| Madagascar              | 4500         | 4500 <sup>e</sup>   | 4500 <sup>e</sup>   |
| Nepal                   |              |                     |                     |
| Kyanite                 | 19           | 12                  | 7                   |
| South Africa            |              |                     |                     |
| Andalusite <sup>e</sup> | 270000       | 270000              | 270000              |
| USA                     |              |                     |                     |
| Kyanite <sup>a</sup>    | 110000       | 110000 <sup>e</sup> | 110000 <sup>e</sup> |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

a:- Including related minerals

b:-Including beneficiated and directly shipped material

**Mine Production of Lead  
(By Principal Countries)**

(In '000 tonnes of metal content)

| Country                       | 2013        | 2014        | 2015              |
|-------------------------------|-------------|-------------|-------------------|
| <b>World Total**</b>          | <b>5300</b> | <b>5300</b> | <b>5000</b>       |
| Argentina <sup>e</sup>        | 23          | 29          | 26                |
| Australia                     | 711         | 728         | 653               |
| Bolivia                       | 82          | 76          | 75                |
| China                         | 2697        | 2609        | 2300 <sup>e</sup> |
| India                         | 110         | 112         | 148               |
| Iran                          | 42          | 36          | 41                |
| Ireland                       | 43          | 41          | 31                |
| Kazakhstan                    | 41          | 38          | 41                |
| Korea, Dem. P.R. <sup>e</sup> | 59          | 53          | 47                |
| Macedonia                     | 43          | 44          | 38                |
| Mexico                        | 253         | 250         | 254               |
| Morocco                       | 31          | 28          | 32                |
| Peru                          | 266         | 277         | 316               |
| Poland                        | 79          | 83          | 60 <sup>e</sup>   |
| Russia                        | 165         | 196         | 196               |
| South Africa                  | 42          | 29          | 35                |
| Sweden                        | 60          | 71          | 79                |
| Tajikistan                    | 17          | 28          | 31                |
| Turkey                        | 77          | 62          | 76                |
| USA                           | 340         | 379         | 385 <sup>e</sup>  |
| Other countries               | 140         | 147         | 140               |

Source:- World Mineral Production ,2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

\*\* :- World Total rounded off and not at actuals,  
hence may not tally.

**World Production of Magnesite  
(By Principal Countries)**

(In '000 tonnes )

| Country                       | 2013         | 2014         | 2015              |
|-------------------------------|--------------|--------------|-------------------|
| <b>World Total**</b>          | <b>40800</b> | <b>47200</b> | <b>44900</b>      |
| Australia                     | 522          | 612          | 681               |
| Austria                       | 714          | 754          | 703               |
| Brazil                        | 1084         | 1152         | 1150 <sup>e</sup> |
| China <sup>e</sup>            | 30000        | 36000        | 33000             |
| Greece                        | 315          | 391          | 383               |
| India                         | 197          | 285          | 265               |
| Iran                          | 109          | 202          | 140 <sup>e</sup>  |
| Korea, Dem. P.R. <sup>e</sup> | 250          | 250          | 250               |
| Netherlands*                  | 250          | 286          | 258               |
| Russia <sup>e</sup>           | 2600         | 2600         | 2600              |
| Saudi Arabia                  | 235          | 286          | 294               |
| Slovakia                      | 584          | 557          | 501               |
| Spain                         | 836          | 837          | 800 <sup>e</sup>  |
| Turkey                        | 2597         | 2377         | 3335              |
| Other countries               | 511          | 565          | 565               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

\* Chloride produced from solution mining

\*\* :- World Total rounded off and not at actuals,  
hence may not tally.

**World Production of Manganese Ore  
(By Principal Countries)**

(In '000 tonnes )

| Country                   | 2013         | 2014              | 2015              |
|---------------------------|--------------|-------------------|-------------------|
| <b>World Total**</b>      | <b>53000</b> | <b>54500</b>      | <b>53200</b>      |
| Australia                 | 7426         | 7587              | 6281              |
| Brazil                    | 2833         | 2723              | 2700              |
| China <sup>e</sup>        | 15000        | 15000             | 15000             |
| Gabon                     | 4091         | 4000 <sup>e</sup> | 4000 <sup>e</sup> |
| Ghana                     | 1998         | 1531              | 1563              |
| India                     | 2626         | 2369              | 2148              |
| Kazakhstan                | 2852         | 2609              | 1626              |
| Malaysia                  | 1125         | 835               | 502               |
| South Africa <sup>e</sup> | 10952        | 13857             | 15979             |
| Ukraine                   | 1525         | 1526              | 1525 <sup>e</sup> |
| Other countries           | 2595         | 2432              | 1869              |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

\*\* :- World Total rounded off and not at actuals,

hence may not tally.



**World Production of Mica  
(By Principal Countries)**

(In '000 tonnes )

| Country                | 2013       | 2014       | 2015             |
|------------------------|------------|------------|------------------|
| <b>World Total**</b>   | <b>352</b> | <b>777</b> | <b>810</b>       |
| Argentina <sup>c</sup> | 8          | 8          | 8                |
| Brazil                 | 10         | 427        | 450 <sup>e</sup> |
| Canada <sup>e</sup>    | 22         | 22         | 22               |
| China <sup>e</sup>     | 161        | 159        | 151              |
| Finland                | 11         | 12         | 12               |
| France <sup>c a</sup>  | 20         | 20         | 21               |
| Korea Rep. of*         | 25         | 24         | 17               |
| Madagascar             | 11         | 9          | 9                |
| Russia <sup>e</sup>    | 9          | 9          | 9                |
| Taiwan                 | 9          | 5          | 8                |
| Turkey                 | 1          | 17         | 45               |
| USA <sup>a b</sup>     | 48         | 46         | 41 <sup>e</sup>  |
| Other countries        | 18         | 18         | 17               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

a: Including mica recovered from mica schists  
and/or kaolin beneficiation

\* Sericite                      b: Sold or used by producers

\*\* :- World Total at actuals.

## Production of Molybdenum

(By principal Countries)

(In tonnes of metal content)

| Country              | 2013          | 2014          | 2015                |
|----------------------|---------------|---------------|---------------------|
| <b>World total**</b> | <b>281000</b> | <b>303000</b> | <b>292000</b>       |
| Armenia              | 5934          | 6022          | 5324                |
| Canada               | 8952          | 8681          | 4189                |
| Chile                | 38715         | 48770         | 52398               |
| China                | 122265        | 128538        | 130000 <sup>e</sup> |
| Iran                 | 3470          | 4000          | 4000 <sup>e</sup>   |
| Mexico               | 12562         | 14370         | 12279               |
| Russia               | 3605          | 3114          | 3100 <sup>e</sup>   |
| USA                  | 61000         | 68200         | 56300 <sup>e</sup>  |
| Other countries      | 23997         | 21108         | 24491               |

Source :World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. estimated

\*\* :- World Total rounded off and not at actuals,  
hence may not tally.

**Production of Nickel  
(By Principal countries)**

(In '000 tonnes of metal content)

| Country                | 2013        | 2014        | 2015            |
|------------------------|-------------|-------------|-----------------|
| <b>World Total**</b>   | <b>2576</b> | <b>2150</b> | <b>2092</b>     |
| Australia              | 281         | 299         | 225             |
| Botswana               | 23          | 15          | 17              |
| Brazil                 | 77          | 86          | 89              |
| Canada                 | 228         | 229         | 235             |
| China                  | 93          | 101         | 100             |
| Colombia               | 49          | 44          | 40              |
| Cuba                   | 56          | 52          | 56              |
| Dominican Rep.         | 9           | 0           | 0               |
| Finland                | 19          | 20          | 19              |
| Greece                 | 19          | 21          | 20              |
| Guatemala <sup>e</sup> | 10          | 47          | 56              |
| Indonesia              | 839         | 216         | 130             |
| Madagascar             | 25          | 37          | 47              |
| Myanmar <sup>e</sup>   | 6           | 21          | 26              |
| New Caledonia          | 164         | 178         | 186             |
| Papua New Guinea       | 13          | 18          | 26              |
| Philippines            | 316         | 393         | 416             |
| Russia                 | 264         | 264         | 261             |
| South Africa           | 51          | 55          | 57              |
| USA                    | 0           | 4           | 27              |
| Zimbabwe               | 13          | 17          | 17 <sup>e</sup> |
| Other countries        | 21          | 34          | 42              |

Source:- World Mineral Production,2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

\*\* :- World Total at actuals.

**Production of Perlite  
(By Principal Countries)**

|                        | (In '000 tonnes ) |             |                  |
|------------------------|-------------------|-------------|------------------|
| Country                | 2013              | 2014        | 2015             |
| <b>World Total**</b>   | <b>4515</b>       | <b>3716</b> | <b>3609</b>      |
| Argentina <sup>e</sup> | 25                | 25          | 25               |
| China <sup>e</sup>     | 700               | 700         | 700              |
| Greece                 | 890               | 985         | 860              |
| Hungary                | 65                | 69          | 65               |
| Iran                   | 1121              | 351         | 400 <sup>e</sup> |
| Italy <sup>e</sup>     | 60                | 60          | 60               |
| Mexico                 | 27                | 26          | 26 <sup>e</sup>  |
| Russia <sup>e</sup>    | 45                | 45          | 45               |
| Thailand               | 14                | 54          | 17               |
| Turkey                 | 1076              | 879         | 846              |
| USA                    | 419               | 451         | 483 <sup>e</sup> |
| Ukraine <sup>e</sup>   | 36                | 36          | 36               |
| Other countries        | 37                | 35          | 46               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/minerals/statistics](http://www.bgs.ac.uk/minerals/statistics)

e. Estimated

\*\* :- World Total at actuals.

**Production of Natural Gas**  
**(By Principal Countries)**  
(In '000 million cubic meter)

| Country              | 2013        | 2014        | 2015        |
|----------------------|-------------|-------------|-------------|
| <b>World Total**</b> | <b>3538</b> | <b>3592</b> | <b>3609</b> |
| Algeria              | 82          | 83          | 83          |
| Argentina            | 42          | 41          | 43          |
| Australia            | 61          | 65          | 73          |
| Canada               | 145         | 152         | 154         |
| China                | 121         | 130         | 127         |
| Egypt                | 56          | 49          | 46          |
| India                | 35          | 34          | 31          |
| Indonesia            | 77          | 76          | 76          |
| Iran                 | 167         | 182         | 193         |
| Kazakhstan           | 42          | 43          | 45          |
| Malaysia             | 65          | 65          | 63          |
| Mexico               | 58          | 57          | 53          |
| Netherlands          | 81          | 69          | 51          |
| Nigeria              | 36          | 45          | 50          |
| Norway               | 109         | 109         | 95          |
| Oman                 | 32          | 30          | 31          |
| Pakistan             | 43          | 42          | 42          |
| Qatar                | 177         | 177         | 181         |
| Russia               | 668         | 639         | 633         |
| Saudi Arabia         | 100         | 102         | 106         |
| Thailand             | 42          | 42          | 40          |
| Trinidad & Tobago    | 43          | 42          | 40          |
| Turkmenistan         | 62          | 69          | 72          |
| USA <sup>#</sup>     | 689         | 733         | 766         |
| UAE                  | 56          | 58          | 56          |
| UK                   | 38          | 39          | 41          |
| Uzbekistan           | 57          | 57          | 58          |
| Other countries      | 354         | 361         | 359         |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

# - Dry gas

\*\* :- World Total at actuals.

**World Production of Crude Petroleum  
(By Principal Countries)**

(In million tonnes)

| Country                   | 2013        | 2014        | 2015            |
|---------------------------|-------------|-------------|-----------------|
| <b>World Total**</b>      | <b>4135</b> | <b>4127</b> | <b>4225</b>     |
| Algeria                   | 69          | 69          | 69              |
| Angola                    | 87          | 83          | 89              |
| Argentina                 | 29          | 28          | 28              |
| Azerbaijan                | 43          | 39          | 39              |
| Brazil                    | 109         | 121         | 131             |
| Canada                    | 173         | 186         | 191             |
| China <sup>#</sup>        | 210         | 211         | 215             |
| Colombia                  | 50          | 49          | 53              |
| Ecuador                   | 27          | 28          | 29              |
| Egypt                     | 34          | 35          | 36              |
| India                     | 38          | 37          | 37              |
| Indonesia                 | 41          | 39          | 39              |
| Iran                      | 180         | 186         | 195             |
| Iraq                      | 153         | 160         | 197             |
| Kazakhstan                | 82          | 81          | 79              |
| Kuwait <sup>a</sup>       | 151         | 151         | 149             |
| Libya                     | 49          | 24          | 21 <sup>e</sup> |
| Malaysia                  | 28          | 29          | 31              |
| Mexico                    | 149         | 144         | 134             |
| Nigeria                   | 111         | 11          | 11              |
| Norway                    | 90          | 93          | 96              |
| Oman                      | 47          | 47          | 49              |
| Qatar                     | 84          | 84          | 79              |
| Russia                    | 523         | 525         | 533             |
| Saudi Arabia <sup>a</sup> | 542         | 543         | 569             |
| USA                       | 462         | 545         | 548             |
| UAE                       | 166         | 167         | 176             |
| UK                        | 41          | 40          | 45              |
| Venezuela                 | 138         | 138         | 135             |
| Other countries           | 229         | 230         | 221             |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

a :- Including shares of production from the  
Neutral Zone                      e:- Estimated

# including oil from shale and coal

\*\* :- World Total at actuals.

**Mine Production of Platinum Group Metals  
(By Principal Countries)**

(In tonnes of metal content )

| Country                                            | 2013        | 2014        | 2015              |
|----------------------------------------------------|-------------|-------------|-------------------|
| <b>World Total**</b>                               | <b>455</b>  | <b>377</b>  | <b>459</b>        |
| <b>Botswana</b>                                    |             |             |                   |
| Platinum                                           | 0.22        | 0.12        | 0.03              |
| Palladium                                          | 1.34        | 0.56        | 0.16              |
| <b>Canada<sup>e</sup></b>                          |             |             |                   |
| Platinum                                           | 9.70        | 12.00       | 12.80             |
| Palladium                                          | 19.80       | 21.00       | 22.30             |
| Other platinum metals                              | 0.00        | 1.40        | 1.50              |
| <b>China<sup>e</sup></b>                           |             |             |                   |
| Platinum                                           | 1.40        | 1.40        | 1.40              |
| <b>Russia</b>                                      |             |             |                   |
| Platinum                                           | 25.00       | 22.00       | 20.80             |
| Palladium                                          | 84.00       | 81.30       | 75.50             |
| Other platinum metals                              | 2.60        | 2.80        | 2.50              |
| <b>South Africa</b>                                |             |             |                   |
| Platinum                                           | 137.02      | 93.99       | 139.13            |
| Palladium                                          | 76.01       | 58.41       | 82.69             |
| Other platinum metals                              | 51.16       | 36.04       | 53.70             |
| <b>USA</b>                                         |             |             |                   |
| Platinum                                           | 3.72        | 3.66        | 3.7 <sup>e</sup>  |
| Palladium                                          | 12.60       | 12.40       | 12.5 <sup>e</sup> |
| <b>Zimbabwe</b>                                    |             |             |                   |
| Platinum                                           | 13.07       | 12.48       | 12.8 <sup>e</sup> |
| Palladium                                          | 10.15       | 10.14       | 10.5 <sup>e</sup> |
| Other platinum metals                              | 2.68        | 2.67        | 2.7 <sup>e</sup>  |
| <b>Other countries<br/>(Platinum Group Metals)</b> | <b>4.81</b> | <b>4.63</b> | <b>4.04</b>       |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

\*\* :- World Total at actuals.

**Production of Phosphate Rock  
(By Principal Countries)**

(In '000 tonnes )

| Country              | 2013          | 2014              | 2015               |
|----------------------|---------------|-------------------|--------------------|
| <b>World Total**</b> | <b>238000</b> | <b>242000</b>     | <b>265000</b>      |
| Algeria              | 1150          | 1127              | 1150 <sup>e</sup>  |
| Australia            | 2064          | 1950              | 1028               |
| Brazil               | 6715          | 6513              | 5600               |
| China                | 108510        | 120438            | 142039             |
| Egypt                | 5922          | 5500              | 5500 <sup>e</sup>  |
| India                | 1454          | 1607              | 1474               |
| Israel               | 2539          | 2779              | 3427               |
| Jordan               | 5399          | 7144              | 8336               |
| Kazakhstan           | 1832          | 1830 <sup>e</sup> | 1830 <sup>e</sup>  |
| Mexico               | 2217          | 1663              | 1677               |
| Morocco              | 26400         | 27390             | 26264              |
| Peru                 | 14842         | 10884             | 11162              |
| Russia               | 10500         | 10700             | 10700 <sup>e</sup> |
| Saudi Arabia         | 1820          | 1911              | 2002               |
| South Africa         | 2132          | 2011              | 1852               |
| Togo                 | 1214          | 1086              | 1150               |
| Tunisia              | 3284          | 3784              | 3800 <sup>e</sup>  |
| USA                  | 31200         | 25300             | 27600 <sup>e</sup> |
| Vietnam              | 2656          | 2471              | 2758               |
| Other countries      | 6151          | 5845              | 5792               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- estimated

\*\* :- World Total rounded off and not at actuals,  
hence may not tally



**Production of Potash**  
**(By Principal Countries)**  
(In '000 tonnes of K<sub>2</sub>O content )

| Country              | 2013         | 2014              | 2015              |
|----------------------|--------------|-------------------|-------------------|
| <b>World Total**</b> | <b>34200</b> | <b>39900</b>      | <b>37900</b>      |
| Belarus              | 4179         | 6340              | 6468              |
| Canada (Chloride)    | 10140        | 11345             | 11350             |
| Chile (Chloride)     | 1158         | 1108              | 1119              |
| China                | 3600         | 4400 <sup>e</sup> | 4200 <sup>e</sup> |
| Germany              |              |                   |                   |
| Potassic salts       | 3075         | 3178              | 3110              |
| Israel (Chloride)    | 2155         | 2213              | 950               |
| Jordan               | 1064         | 1276              | 1437              |
| Russia (Chloride)    | 6104         | 7402              | 6954              |
| USA                  |              |                   |                   |
| Potassic salts       | 960          | 850               | 770 <sup>e</sup>  |
| Other countries      | 1743         | 1799              | 1557              |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

\*\* :- World Total rounded off and not at actuals,

hence may not tally

**World Production of Pyrophyllite  
(By Principal Countries)**

(In '000 tonnes )

| Country              | 2013             | 2014             | 2015             |
|----------------------|------------------|------------------|------------------|
| <b>World Total**</b> | <b>1289</b>      | <b>1329</b>      | <b>1367</b>      |
| India                | 225              | 147              | 140 <sup>e</sup> |
| Japan                | 340 <sup>e</sup> | 340 <sup>e</sup> | 345              |
| Korea, Rep. of       | 525              | 623              | 597              |
| Peru                 | 32               | 18               | 26               |
| Saudi Arabia         | 6                | 7                | 8                |
| South Africa         | 17               | 19               | 17               |
| Thailand             | 27               | 49               | 46               |
| Turkey               | 102              | 109              | 173              |
| Vietnam <sup>e</sup> | 16               | 16               | 16               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

\*\* :- World Total at actuals.

**World Production of Rare Earths  
(By Principal Countries)**

(In tonnes )

| Country              | 2013          | 2014          | 2015              |
|----------------------|---------------|---------------|-------------------|
| <b>World Total**</b> | <b>101042</b> | <b>149731</b> | <b>154036</b>     |
| Australia            | 970           | 3965          | 8799              |
| China <sup>e b</sup> | 95000         | 140000        | 140000            |
| Malaysia             | 229           | 292           | 365               |
| Russia               | 1443          | 2134          | 2312              |
| USA                  | 3300          | 3240          | 2460 <sup>e</sup> |
| Vietnam <sup>e</sup> | 100           | 100           | 100               |

Source:- World Mineral Production,2011-15

[www.bgs.ac.uk/minerals/statistics](http://www.bgs.ac.uk/minerals/statistics)

e:- Estimated

b:-Includes production from iron ore  
extraction

\*\* :- World Total at actuals.

**World Production of Rutile  
(By Principal Countries)**

(In '000 tonnes )

| Country                   | 2013        | 2014            | 2015             |
|---------------------------|-------------|-----------------|------------------|
| <b>World Total**</b>      | <b>1200</b> | <b>800</b>      | <b>800</b>       |
| Australia                 | 250         | 341             | 295              |
| India                     | 13          | 13 <sup>e</sup> | 13 <sup>e</sup>  |
| Kazakhstan <sup>e</sup>   | 17          | 17              | 17               |
| Kenya                     | 0           | 52              | 79               |
| Sierra Leone              | 120         | 115             | 123 <sup>e</sup> |
| South Africa <sup>e</sup> | 734         | 133             | 130              |
| Ukraine <sup>e</sup>      | 100         | 100             | 100              |
| Other countries           | 25          | 24              | 21               |

Source:- World Mineral Production,2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- estimated

\*\* :- World Total rounded off and not at actuals,  
hence may not tally.

**World Production of Sand & Gravel<sup>e</sup>**  
**(By Principal Countries)**

(In '000 tonnes )

| <b>Country</b>        | <b>2013</b>   | <b>2014</b>   | <b>2015</b>   |
|-----------------------|---------------|---------------|---------------|
| <b>World Total **</b> | <b>152000</b> | <b>196000</b> | <b>189000</b> |
| Australia             | 5500          | 5500          | 6000          |
| Canada                | 1690          | 1690          | 1700          |
| Chile                 | 1360          | 1360          | 1250          |
| Czech Republic        | 1340          | 1270          | 1270          |
| Finland               | 2400          | 2400          | 2400          |
| France                | 6290          | 8750          | 8750          |
| Germany               | 7500          | 7500          | 7500          |
| India                 | 1210          | 3430          | 3400          |
| Italy                 | 16400         | 13900         | 13900         |
| Japan                 | 3000          | 3000          | 3000          |
| Malaysia              | 1000          | 1240          | 1200          |
| Mexico                | 3590          | 3590          | 3600          |
| Moldova               | 3000          | 3500          | 3800          |
| Norway                | 1000          | 1000          | 1000          |
| Poland                | 2300          | 2300          | 2300          |
| Saudi Arabia          | 1400          | 1400          | 1260          |
| South Africa          | 2110          | 2110          | 2300          |
| Spain                 | 3400          | 3400          | 3400          |
| Turkey                | 15000         | 7970          | 8000          |
| UK                    | 3760          | 4000          | 4000          |
| USA                   | 62100         | 110000        | 103000        |
| Other countries       | 6690          | 6030          | 6000          |

Source: Mineral Commodity Summaries, 2016 & 2017.

<https://minerals.usgs.gov/minerals/pubs/mcs>

e : Estimated

\*\* :- World Total rounded off and not at actuals,  
hence may not tally.

**Production of Selenium Metal  
(By Principal Countries)**

(In tonnes )

| Country                  | 2013        | 2014        | 2015            |
|--------------------------|-------------|-------------|-----------------|
| <b>World Total**</b>     | <b>2807</b> | <b>2862</b> | <b>2787</b>     |
| Belgium <sup>e</sup>     | 200         | 200         | 200             |
| Canada                   | 159         | 154         | 154             |
| Chile                    | 70          | 41          | 50 <sup>e</sup> |
| China                    | 65          | 65          | 65 <sup>e</sup> |
| Finland                  | 72          | 94          | 93              |
| Germany <sup>e</sup>     | 700         | 700         | 700             |
| Japan                    | 739         | 782         | 772             |
| Kazakhstan <sup>e</sup>  | 130         | 130         | 130             |
| Mexico                   | 132         | 120         | 107             |
| Peru                     | 50          | 49          | 50 <sup>e</sup> |
| Philippines <sup>e</sup> | 70          | 70          | 70              |
| Poland                   | 80          | 90          | 87              |
| Russia                   | 114         | 131         | 143             |
| USA <sup>e</sup>         | 150         | 160         | 90              |
| Other countries          | 76          | 76          | 76              |

Source:- World Mineral Production,2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

\*\* :- World Total at actuals,

**Mine Production of Silver  
(By Principal Countries)**

(In tonnes of metal content )

| Country              | 2013         | 2014         | 2015              |
|----------------------|--------------|--------------|-------------------|
| <b>World Total**</b> | <b>25989</b> | <b>27203</b> | <b>27511</b>      |
| Argentina            | 774          | 905          | 1079              |
| Australia            | 1840         | 1847         | 1374              |
| Bolivia              | 1287         | 1345         | 1306              |
| Brazil               | 22           | 25           | 25 <sup>e</sup>   |
| Canada               | 640          | 495          | 380               |
| Chile                | 1174         | 1572         | 1504              |
| China                | 3670         | 3499         | 3393              |
| Guatemala            | 281          | 858          | 863               |
| Kazakhstan           | 964          | 989          | 1309              |
| Mexico               | 5821         | 5766         | 5592              |
| Peru                 | 3674         | 3778         | 4102              |
| Poland               | 1161         | 1384         | 1407              |
| Russia*              | 1412         | 1334         | 1571              |
| USA                  | 1037         | 1184         | 1100 <sup>e</sup> |
| Other countries      | 2230         | 2221         | 2506              |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

\* Smelter and/or refinery production

\*\* :- World Total at actuals

**World Production of Sulphur & Pyrites  
(By Principal Countries)**

(In '000 tonnes of sulphur content )

| Country                             | 2013         | 2014               | 2015               |
|-------------------------------------|--------------|--------------------|--------------------|
| <b>World Total** (Sulphur)</b>      | <b>75400</b> | <b>75100</b>       | <b>74400</b>       |
| <b>(Pyrites)</b>                    | <b>8200</b>  | <b>8200</b>        | <b>8200</b>        |
| Brazil (Sulphur)                    | 542          | 527                | 530 <sup>e</sup>   |
| (Pyrites)                           | 18           | 19                 | 20 <sup>e</sup>    |
| Canada (Sulphur)                    | 6301         | 5842               | 5778               |
| China (Sulphur)                     | 12491        | 12500 <sup>e</sup> | 12500 <sup>e</sup> |
| (Pyrites)                           | 7704         | 7700 <sup>e</sup>  | 7700 <sup>e</sup>  |
| Chile (Sulphur)                     | 1771         | 1849               | 1488               |
| Finland (Pyrites)                   | 347          | 353                | 353                |
| (Sulphur)                           | 446          | 466                | 479                |
| India (Sulphur) <sup>e</sup>        | 2800         | 2800               | 2800               |
| Iran (Sulphur)                      | 1890         | 2100               | 2100 <sup>e</sup>  |
| Germany (Sulphur)                   | 1219         | 1146               | 1012               |
| Japan (Sulphur)                     | 3465         | 3503               | 3421               |
| Kazakhstan (Sulphur)                | 3057         | 3069               | 3119               |
| Korea Rep. of (Sulphur)             | 2678         | 2278               | 2528               |
| Mexico (Sulphur)                    | 1586         | 1549               | 1510               |
| Poland (Sulphur)                    | 811          | 890                | 931                |
| Qatar                               | 1979         | 1754 <sup>e</sup>  | 1665 <sup>e</sup>  |
| Russia (Sulphur)                    | 7096         | 7096 <sup>e</sup>  | 7096 <sup>e</sup>  |
| (Pyrites) <sup>e</sup>              | 71           | 71                 | 71                 |
| Spain (Sulphur)                     | 1054         | 1054 <sup>e</sup>  | 1054 <sup>e</sup>  |
| Saudi Arabia (Sulphur)              | 3900         | 3800 <sup>e</sup>  | 3800 <sup>e</sup>  |
| South Africa (Sulphur) <sup>e</sup> | 250          | 250                | 277                |
| UAE (Sulphur)                       | 2510         | 2530 <sup>e</sup>  | 2530 <sup>e</sup>  |
| USA (Sulphur)                       | 9216         | 9627               | 9295 <sup>e</sup>  |
| Other countries(Sulphur)            | 10338        | 10470              | 10487              |
| (Pyrites)                           | 60           | 57                 | 56                 |

Source: World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e- Estimated.

\*\* :- World Total rounded off and not at actuals,  
hence may not tally.



**World Production of Talc  
(By Principal Countries)**

(In '000 tonnes )

| Country                       | 2013        | 2014             | 2015             |
|-------------------------------|-------------|------------------|------------------|
| <b>World Total**</b>          | <b>6959</b> | <b>6792</b>      | <b>6804</b>      |
| Argentina <sup>e b</sup>      | 25          | 25               | 25               |
| Australia <sup>e</sup>        | 104         | 115              | 80               |
| Austria                       | 135         | 131              | 122              |
| Brazil <sup>b</sup>           | 593         | 644              | 650 <sup>e</sup> |
| Canada                        | 175         | 81               | 164              |
| China <sup>e</sup>            | 2200        | 2200             | 2200             |
| Egypt                         | 63          | 31               | 30 <sup>e</sup>  |
| Finland                       | 362         | 381              | 332              |
| France                        | 350         | 350              | 350 <sup>e</sup> |
| India                         | 888         | 774              | 770 <sup>e</sup> |
| Iran                          | 93          | 113              | 100 <sup>e</sup> |
| Italy                         | 162         | 165 <sup>e</sup> | 165 <sup>e</sup> |
| Japan <sup>e</sup>            | 25          | 25               | 25               |
| Korea, Dem. P.R. <sup>e</sup> | 50          | 50               | 50               |
| Mexico                        | 847         | 752              | 750 <sup>e</sup> |
| Pakistan                      | 93          | 89               | 116              |
| Peru                          | 33          | 29               | 27               |
| Russia <sup>e</sup>           | 150         | 150              | 150              |
| USA                           | 542         | 610              | 633 <sup>e</sup> |
| Other countries               | 69          | 77               | 64               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

b :- Including talc, agaimatolite and  
pyrophyllite

\*\* :- World Total at actuals.

**Production of Tellurium Metal  
(By Principal Countries)**

(In tonnes )

| Country          | 2013 | 2014 | 2015           |
|------------------|------|------|----------------|
| Canada           | 12   | 9    | 9              |
| China            | 7    | 7    | 7 <sup>e</sup> |
| Japan            | 31   | 32   | 34             |
| Russia           | 31   | 33   | 34             |
| Sweden           | 24   | 31   | 33             |
| USA <sup>e</sup> | 50   | 50   | 50             |

Source:- World Mineral Production,2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

**Mine Production of Tin**  
**(By Principal countries)**

| (In tonnes of metal content ) |               |               |                    |
|-------------------------------|---------------|---------------|--------------------|
| Country                       | 2013          | 2014          | 2015               |
| <b>World Total**</b>          | <b>332000</b> | <b>351000</b> | <b>341000</b>      |
| Australia                     | 6472          | 7207          | 7158               |
| Bolivia                       | 19287         | 19791         | 20135              |
| Brazil                        | 16830         | 25534         | 25000 <sup>e</sup> |
| Myanmar <sup>e</sup>          | 9000          | 26000         | 43000              |
| China                         | 149000        | 158000        | 135000             |
| Congo, Dem.P.R                | 3427          | 4012          | 4566               |
| Indonesia <sup>e</sup>        | 88000         | 70000         | 70000              |
| Laos                          | 579           | 868           | 815                |
| Malaysia                      | 3697          | 3777          | 4158               |
| Nigeria                       | 2516          | 2485          | 2298               |
| Peru                          | 23668         | 23105         | 19511              |
| Rwanda                        | 3671          | 4447          | 2885               |
| Vietnam <sup>e</sup>          | 5400          | 5400          | 5400               |
| Other countries               | 696           | 872           | 751                |

Source:- World Mineral Production,2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

\*\* :- World Total rounded off and not at actuals,  
hence may not tally

**Production of Tungstan  
(By Principal Countries)**

(In tonnes of metal content)

| Country                       | 2013         | 2014         | 2015               |
|-------------------------------|--------------|--------------|--------------------|
| <b>World Total**</b>          | <b>76400</b> | <b>80800</b> | <b>80900</b>       |
| Austria                       | 851          | 830          | 870                |
| Bolivia                       | 957          | 956          | 1116               |
| Brazil <sup>#</sup>           | 494          | 510          | 500 <sup>e</sup>   |
| Canada                        | 2762         | 2689         | 2114               |
| China                         | 64895        | 65369        | 65000 <sup>e</sup> |
| Korea, Dem. P.R. <sup>e</sup> | 60           | 70           | 70                 |
| Kyrgyzstan <sup>e</sup>       | 100          | 100          | 100                |
| Myanmar <sup>e</sup>          | 140          | 140          | 90                 |
| Peru                          | 35           | 77           | 139                |
| Portugal*                     | 692          | 671          | 474                |
| Russia                        | 2982         | 2659         | 2700 <sup>e</sup>  |
| Rwanda                        | 1344         | 1313         | 1081               |
| Spain                         | 487          | 822          | 835                |
| Thailand*                     | 161          | 110          | 39                 |
| Uzbekistan <sup>e</sup>       | 300          | 300          | 300                |
| United Kingdom                | 0            | 0            | 195                |
| Vietnam                       | 0            | 4134         | 5123               |
| Other countries               | 144          | 99           | 120                |

Source:- World Mineral Production,2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated                      \* Wolframite & Scheelite

# mainly Scheelite

\*\* :- World Total rounded off and not at actuals,  
hence may not tally

### **Production of Vanadium**

#### **(By Principal Countries)**

(In tonnes of metal content)

| <b>Country</b>            | <b>2013</b>  | <b>2014</b>  | <b>2015</b>  |
|---------------------------|--------------|--------------|--------------|
| <b>World total**</b>      | <b>74000</b> | <b>72000</b> | <b>72000</b> |
| Brazil                    | 0            | 578          | 3254         |
| China <sup>e</sup>        | 44000        | 45000        | 42000        |
| Kazakhstan <sup>e</sup>   | 1000         | 1000         | 1000         |
| Russia                    | 14403        | 15125        | 16196        |
| South Africa <sup>e</sup> | 14000        | 10000        | 10000        |
| USA                       | 591          | 0            | 0            |

Source :World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. estimated

\*\* :- World Total rounded off and not at actuals,  
hence may not tally.

**World Production of Vermiculite**  
**(By Principal Countries)**

(In '000 tonnes )

| Country               | 2013 | 2014            | 2015            |
|-----------------------|------|-----------------|-----------------|
| Brazil                | 60   | 56              | 60 <sup>e</sup> |
| Bulgaria <sup>e</sup> | 19   | 18              | 18              |
| China <sup>e</sup>    | 15   | 15              | 15              |
| India                 | 12   | 19              | 23              |
| Russia <sup>e</sup>   | 30   | 30              | 30              |
| South Africa          | 128  | 143             | 138             |
| USA <sup>e</sup>      | 100  | 100             | 100             |
| Zimbabwe              | 29   | 30 <sup>e</sup> | 40 <sup>e</sup> |
| Other countries       | 22   | 9               | 9               |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e:- Estimated

**Production of Wollastonite  
(By Principal Countries)**

| (In tonnes )         |                |                |                |
|----------------------|----------------|----------------|----------------|
| Country              | 2013           | 2014           | 2015           |
| <b>World Total**</b> | <b>1098252</b> | <b>1439401</b> | <b>1338427</b> |
| China <sup>e</sup>   | 750000         | 1100000        | 1000000        |
| Finland <sup>e</sup> | 11500          | 10000          | 10000          |
| India                | 192712         | 186524         | 175348         |
| Mexico               | 57302          | 54579          | 57451          |
| Spain                | 16738          | 15298          | 17700          |
| USA <sup>e</sup>     | 70000          | 70000          | 70000          |
| Other countries      | 0              | 3000           | 7928           |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

\*\* :- World Total at actuals.

**Mine Production of Zinc  
(By Principal Countries)**

(In'000 tonnes of metal content )

| Country              | 2013         | 2014         | 2015         |
|----------------------|--------------|--------------|--------------|
| <b>World Total**</b> | <b>13600</b> | <b>13700</b> | <b>13200</b> |
| Australia            | 1525         | 1555         | 1600         |
| Bolivia              | 407          | 449          | 442          |
| Canada               | 427          | 352          | 277          |
| China                | 5188         | 5118         | 4750         |
| India                | 770          | 769          | 761          |
| Ireland              | 327          | 283          | 236          |
| Kazakhstan           | 417          | 386          | 384          |
| Mexico               | 643          | 660          | 677          |
| Peru                 | 1351         | 1315         | 1422         |
| USA                  | 784          | 832          | 825          |
| Other countries      | 1769         | 1957         | 1853         |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

\*\* :- World Total rounded off and not at actuals,  
hence may not tally.



**Production of Zirconium Minerals  
(By Principal Countries)**

(In '000 tonnes )

| Country                   | 2013        | 2014            | 2015            |
|---------------------------|-------------|-----------------|-----------------|
| <b>World Total**</b>      | <b>1104</b> | <b>1323</b>     | <b>1341</b>     |
| Australia                 | 498         | 582             | 598             |
| Brazil <sup>b</sup>       | 25          | 24              | 25 <sup>e</sup> |
| China <sup>e</sup>        | 34          | 34              | 34              |
| India                     | 19          | 19 <sup>e</sup> | 19 <sup>e</sup> |
| Indonesia <sup>e</sup>    | 49          | 21              | 21              |
| Kenya                     | 0           | 40              | 26              |
| Madagascar                | 23          | 27              | 25 <sup>e</sup> |
| Mozambique                | 31          | 51              | 52              |
| South Africa <sup>e</sup> | 292         | 393             | 390             |
| USA <sup>e</sup>          | 80          | 70              | 60              |
| Ukraine <sup>e</sup>      | 35          | 35              | 35              |
| Other countries           | 19          | 28              | 57              |

Source:- World Mineral Production, 2011-15

[www.bgs.ac.uk/mineralsuk/statistics](http://www.bgs.ac.uk/mineralsuk/statistics)

e. Estimated

b:- Including caldasite rock containing zircon  
and baddelyite

\*\* :- World Total at actuals.