

# Mineral Import of Thailand (Fiscal) Year 2011 - 2012

| Mineral                                 | 2011       |                 | 2012       |                 | Percentage |              |
|-----------------------------------------|------------|-----------------|------------|-----------------|------------|--------------|
|                                         | Quantity   |                 | Quantity   |                 | Quantity   |              |
|                                         | Value      | Value           | Value      | Value           | Value      | Value        |
| Aluminium ore                           | 36,457     | 285.8           | 33,537     | 308.3           | -8.01%     | 7.86%        |
| Andalusite, Kyannite and Sillimanite    | 3,622      | 49.3            | 2,111      | 27.8            | -41.71%    | -43.55%      |
| Anhydrite                               | 0          | -               | 0*         | 0.0*            | -          | -            |
| Anthracite                              | 268,011    | 1,605.5         | 144,680    | 913.2           | -46.02%    | -43.12%      |
| Antimony ore                            | 9,827      | 296.3           | 7,080      | 124.0           | -27.96%    | -58.16%      |
| Apatite                                 |            |                 |            |                 |            |              |
| - Ground                                | 2,676      | 16.0            | 1,789      | 11.4            | -33.16%    | -28.95%      |
| - Unground                              | 2          | 0.0*            | 0          | 0.0*            | -90.00%    | -            |
| Asbestos                                | 74,181     | 1,020.2         | 67,865     | 960.5           | -8.51%     | -5.85%       |
| Attapulgit                              | 346        | 2.6             | 166        | 1.1             | -52.18%    | -58.71%      |
| Ball Clay                               | 5,518      | 36.0            | 978        | 4.8             | -82.28%    | -86.55%      |
| Barite                                  | 76,382     | 290.4           | 107,831    | 536.2           | 41.17%     | 84.64%       |
| Basalt                                  | 42,683     | 116.8           | 23,222     | 23.1            | -45.59%    | -80.23%      |
| Bentonite                               | 78,146     | 454.5           | 105,064    | 571.1           | 34.45%     | 25.65%       |
| Bituminous coal                         | 4,801,167  | 12,887.5        | 6,612,986  | 18,738.9        | 37.74%     | 45.40%       |
| Chalk                                   | 39         | 1.5             | 54         | 1.7             | 40.17%     | 16.42%       |
| Chromite ore                            | 2,268      | 35.9            | 3,092      | 61.3            | 36.30%     | 70.72%       |
| Coke                                    | 147,233    | 2,164.6         | 41,082     | 761.2           | -72.10%    | -64.84%      |
| Columbite                               | 143        | 37.2            | 53         | 43.8            | -62.94%    | 17.74%       |
| Copper                                  | 412        | 5.0             | 1,612      | 6.7             | 291.80%    | 34.74%       |
| Dolomite                                | 1,150      | 11.9            | 957        | 10.9            | -16.83%    | -8.06%       |
| Ecaussine                               | 5          | 0.0*            | 0          | -               | -91.84%    | -            |
| Emery                                   | 5,060      | 57.7            | 32,481     | 112.5           | 541.95%    | 94.94%       |
| Feldspar                                |            |                 |            |                 |            |              |
| - Potassium                             | 29,544     | 91.0            | 38,624     | 124.4           | 30.73%     | 36.72%       |
| - Sodium                                | 3,673      | 13.6            | 2,293      | 10.4            | -37.57%    | -23.42%      |
| - Other Feldspar                        | 4,114      | 23.0            | 3,586      | 24.4            | -12.83%    | 5.93%        |
| Fireclay                                | 3,113      | 39.0            | 721        | 9.6             | -76.84%    | -75.28%      |
| Flint                                   | 48,247     | 25.3            | 2,006      | 14.4            | -95.84%    | -43.05%      |
| Fluorite                                | 1,025      | 17.0            | 645        | 14.2            | -37.02%    | -16.52%      |
| Granite                                 | 146,119    | 494.8           | 131,761    | 475.8           | -9.83%     | -3.83%       |
| Graphite                                | 1,437      | 94.8            | 1,301      | 106.2           | -9.48%     | 12.05%       |
| Gypsum                                  | 590        | 9.3             | 471        | 7.9             | -20.12%    | -14.73%      |
| ilmenite ore                            | 68         | 2.0             | 126        | 9.9             | 85.29%     | 394.33%      |
| Iron ore                                | 160,880    | 768.1           | 18,202     | 82.3            | -88.69%    | -89.29%      |
| Iron Pyrites                            | 310        | 4.0             | 282        | 3.5             | -9.28%     | -12.41%      |
| Kaolin                                  |            |                 |            |                 |            |              |
| - Ceramic                               | 18,749     | 157.7           | 13,505     | 109.2           | -27.97%    | -30.75%      |
| - Paper                                 | 5,153      | 48.5            | 4,086      | 38.9            | -20.71%    | -19.70%      |
| - Others                                | 66,278     | 532.1           | 69,739     | 647.8           | 5.22%      | 21.75%       |
| Kieserite                               | 6,038      | 42.4            | 10,719     | 69.4            | 77.54%     | 63.64%       |
| Lead ore                                | 232        | 5.7             | 2          | 0.0*            | -99.14%    | -            |
| Lignite                                 | 16         | 0.3             | 443        | 15.8            | 2727.53%   | 5150.39%     |
| Limestone                               | 43         | 0.2             | 1          | 0.2             | -98.04%    | -24.83%      |
| Lucite, Nepheline and Nepheline Syenite | 1,414      | 13.2            | 1,527      | 14.8            | 8.00%      | 12.45%       |
| Magnesite                               | 4,619      | 66.6            | 4,639      | 50.1            | 0.43%      | -24.78%      |
| Manganese ore                           | 16,354     | 44.0            | 28,359     | 58.0            | 73.40%     | 31.82%       |
| Marble                                  | 52,886     | 371.0           | 42,931     | 362.5           | -18.82%    | -2.29%       |
| Mica                                    | 4,660      | 122.2           | 4,605      | 140.1           | -1.18%     | 14.69%       |
| Molybdenite ore                         | 9,746      | 1,215.1         | 9,041      | 1,165.7         | -7.23%     | -4.07%       |
| Mullite                                 | 1,918      | 28.3            | 1,653      | 24.3            | -13.81%    | -14.14%      |
| Nickel ore                              | 4          | 4.2             | -          | 0.1             | -100.00%   | -96.47%      |
| Niobium and Vanadium ore                | 13,181     | 902.1           | 8,081      | 792.3           | -38.70%    | -12.17%      |
| Orpiment                                | 1          | 0.0*            | 0          | 0.0*            | -90.00%    | -            |
| Other coal                              | 12,303,189 | 26,918.0        | 10,557,517 | 24,911.9        | 1131.21%   | -7.45%       |
| Peat                                    | 10,198     | 87.6            | 7,742      | 64.5            | -24.08%    | -26.33%      |
| Phosphate                               |            |                 |            |                 |            |              |
| - Ground                                | 182        | 1.7             | -          | -               | -100.00%   | -100.00%     |
| - Unground                              | 1          | 0.1             | -          | -               | -100.00%   | -100.00%     |
| Pumice stone                            | 5,324      | 57.8            | 5,156      | 66.6            | -3.15%     | 15.22%       |
| Quartz                                  | 2,439      | 10.0            | 3,683      | 19.0            | 51.00%     | 89.76%       |
| Rock salt                               | 5          | 0.0**           | -          | -               | -100.00%   | -            |
| Sandstone                               | 0          | 0.0*            | -          | -               | -100.00%   | -            |
| Silica sand                             | 25,994     | 110.9           | 36,387     | 155.4           | 39.98%     | 40.11%       |
| Silver ore                              | 30         | 2.3             | -          | -               | -100.00%   | -100.00%     |
| Slate                                   | 61         | 0.7             | 68         | 0.6             | 11.70%     | -18.30%      |
| Steatite                                | 2,053      | 12.1            | 1,795      | 20.7            | -12.54%    | 71.08%       |
| Sulphur                                 | 116,869    | 804.3           | 109,800    | 847.0           | -6.05%     | 5.31%        |
| Talc                                    | 133,009    | 1,396.8         | 129,113    | 1,611.4         | -2.93%     | 15.36%       |
| Tantalite                               | 183        | 566.4           | 924        | 1,016.0         | 405.02%    | 79.39%       |
| Thorium ore                             | 20,069     | 114.9           | 1          | 0.1             | -100.00%   | -99.91%      |
| Tin ore                                 | 2,936      | 181.4           | 3,262      | 371.5           | 11.11%     | 104.80%      |
| Titanium ore                            |            |                 |            |                 |            |              |
| - Rutile                                | 7,641      | 149.8           | 6,189      | 438.7           | -19.00%    | 192.86%      |
| - Leucosene                             | 4,529      | 123.0           | 3,387      | 225.4           | -25.22%    | 83.24%       |
| - Ilmenite                              | 840        | 9.2             | 900        | 18.5            | 7.17%      | 100.97%      |
| - Other Titanium ore                    | 1,201      | 71.8            | 932        | 30.9            | -22.36%    | -56.95%      |
| Travertine                              | -          | 0.0*            | 0          | 0.0*            | -          | -            |
| Tungsten                                |            |                 |            |                 |            |              |
| - Wolfram                               | 41         | 2.6             | 14         | 1.1             | -66.34%    | -57.86%      |
| - Other tungsten                        | -          | 0.0*            | -          | -               | -          | -            |
| Vermiculite, Perlite and Chlorites      | 2,885      | 24.9            | 5,084      | 42.2            | 76.21%     | 69.43%       |
| Witherite                               | 999        | 13.2            | 1,525      | 22.6            | 52.63%     | 71.08%       |
| Zinc ore                                | 123,662    | 3,161.2         | 154,419    | 3,571.4         | 24.87%     | 12.98%       |
| Zirconium ore                           | 33,687     | 689.4           | 36,350     | 1,311.2         | 7.90%      | 90.20%       |
| <b>Total</b>                            |            | <b>59,020.3</b> |            | <b>62,337.4</b> |            | <b>5.62%</b> |

0\* denoting the amount of less than 0.1 metric tonnes

0.0\*\* denoting the amount of less than 0.05 million baht