

Mineral Production of Thailand (Fiscal Year) 2013-2014

Quantity : Tonnes
Value : Million Baht

| Mineral | 2013 | | 2014 | |
|------------------------------------|------------|-----------------|------------|-----------------|
| | Quantity | Value | Quantity | Value |
| Limestone | | | | |
| - Industrial rock-construction | 84,343,549 | 8,856.1 | 88,982,616 | 9,343.2 |
| - Industrial rock-cement | 70,226,971 | 8,427.2 | 69,777,124 | 8,373.3 |
| - Industrial rock-others | 5,834,592 | 700.2 | 6,251,767 | 750.2 |
| - Dimension stone | 132 | 0.3 | 99 | 0.2 |
| Lignite | 17,890,211 | 17,174.6 | 18,166,899 | 17,440.2 |
| Gypsum (unground) | 12,285,028 | 6,210.3 | 12,571,281 | 7,059.3 |
| Gold metal (unit : gram) | 4,357,989 | 6,427.0 | 4,291,068 | 5,704.9 |
| Zinc ore | 160,684 | 1,934.3 | 208,619 | 2,891.6 |
| Basalt (industrial rock) | 10,245,951 | 1,383.2 | 14,178,042 | 1,914.0 |
| Rock salt | 1,330,822 | 1,463.9 | 1,347,677 | 1,482.4 |
| Iron ore | 341,155 | 765.4 | 479,901 | 1,059.5 |
| Granite | | | | |
| - Industrial rock | 7,008,569 | 946.2 | 7,265,701 | 980.9 |
| - Dimension stone* | 3,164 | 17.8 | 3,213 | 19.0 |
| Feldspar | | | | |
| - Sodium (unground) | 1,021,380 | 714.9 | 1,338,415 | 936.9 |
| - Potassium (unground) | 5,207 | 8.8 | 14,210 | 24.2 |
| Dolomite | 2,669,783 | 934.4 | 2,385,507 | 834.9 |
| Silver metal (unit : gram) | 31,020,967 | 799.9 | 31,909,416 | 667.9 |
| Shale (industrial rock-cement) | 4,709,158 | 588.6 | 5,007,991 | 626.0 |
| Anhydrite | 1,078,249 | 544.2 | 1,068,318 | 592.7 |
| Cement Clay | 2,343,018 | 210.8 | 3,732,420 | 335.9 |
| Ceramic Clay | 75,256 | 41.4 | 274,801 | 151.1 |
| Kaolin | | | | |
| - Unwashed | 702,221 | 270.4 | 766,677 | 295.2 |
| - Washed | 119,611 | 114.8 | 115,426 | 110.8 |
| Glass sand | 697,312 | 244.1 | 1,156,799 | 404.9 |
| Barite | | | | |
| - Drilling mud (ground) | 33,000 | 128.5 | 44,033 | 171.5 |
| - Underground | 57,645 | 85.6 | 88,206 | 130.9 |
| - Chemical grade (ground) | 3,943 | 23.1 | 4,225 | 24.7 |
| Marble | | | | |
| - Fragment* | 458,060 | 148.8 | 529,829 | 172.2 |
| - Dimension stone* | 7,438 | 28.7 | 10,493 | 40.9 |
| Calcite | 798,231 | 157.3 | 973,549 | 191.8 |
| Andesite (industrial rock) | 1,055,522 | 142.5 | 1,032,215 | 139.3 |
| Graywacke (industrial rock-others) | 813,221 | 85.4 | 1,017,260 | 106.8 |
| Rhyolite (industrial rock) | 1,178,622 | 123.7 | 931,321 | 97.8 |
| Tin concentrates | 129 | 62.6 | 158 | 83.3 |
| Others | | 562.9 | | 363.2 |
| Total | | 60,327.9 | | 63,521.6 |

Remark : * Quantity : Cubic metre

Mineral Exports of Thailand (Fiscal Year) 2013-2014

Quantity : Tonnes
Value : Million Baht

| Mineral | 2013 | | 2014 | |
|---------------------------------|------------|-----------------|------------|-----------------|
| | Quantity | Value | Quantity | Value |
| Tin | | | | |
| - Tin metal | 22,600 | 15,249.1 | 14,432 | 9,675.3 |
| - Hard head | 114 | 44.7 | 124 | 40.9 |
| - Final slag | 76 | 11.5 | 116 | 19.4 |
| Gold metal (unit : gram) | 4,357,989 | 6,427.0 | 4,268,271 | 5,696.6 |
| Gypsum | | | | |
| - Unground | 8,127,212 | 4,232.8 | 8,996,911 | 4,982.2 |
| - Ground | 3,794 | 16.0 | 3,477 | 11.2 |
| Feldspar (sodium-ground) | 762,485 | 618.3 | 884,525 | 764.3 |
| Silver metal (unit : gram) | 31,020,967 | 799.9 | 31,558,229 | 688.3 |
| Anhydrite | | | | |
| - Anhydrite | 985,310 | 506.4 | 1,157,348 | 642.4 |
| - Ground | 80 | 0.3 | - | - |
| Iron ore | 261,511 | 523.2 | 227,299 | 447.4 |
| Dolomite | | | | |
| - Unground | 920,100 | 297.9 | 1,163,200 | 424.5 |
| - Ground | 2,849 | 0.5 | 1,794 | 0.8 |
| Zircon | 7,317 | 264.9 | 12,231 | 314.8 |
| Limestone | | | | |
| - Industrial rock-construction | 494,188 | 181.1 | 678,286 | 230.3 |
| - Industrial rock-others | 2,385 | 8.4 | 1,328 | 2.8 |
| Ball clay | 16,459 | 73.2 | 24,688 | 196.8 |
| Zinc | | | | |
| - Zinc metal | 1,379 | 103.3 | 2,456 | 162.7 |
| - Zinc alloy | 42 | 2.2 | - | - |
| Granite (industrial rock) | 229,874 | 59.9 | 490,014 | 133.1 |
| Antimony ore | 6,106 | 142.9 | 3,915 | 118.7 |
| Manganese (metallurgical grade) | 9,807 | 33.4 | 30,803 | 95.6 |
| Monazite | 410 | 19.7 | 2,100 | 93.4 |
| Kaolin (washed) | 10,319 | 61.0 | 13,676 | 70.3 |
| Others | | 330.8 | | 395.9 |
| Total | | 29,927.7 | | 25,044.0 |

Values of mineral *Production* in the fiscal year of 2014 is 63,521.6 million baht, increasing from the same period of 2013 by 3,193.7 million baht 5.29%

Values of mineral *Exports* in the fiscal year of 2014 is 25,044.0 million baht, decreasing from the same period of 2013 by 4,883.7 million baht or 16.32%

Values of mineral *Consumption* in the fiscal year of 2014 is 52,982.7 million baht, increasing from the same period of 2013 by 1,653.0 million baht or 3.22%

Values of mineral *Import* in the fiscal year of 2014 is 63,942.5 million baht, increasing from the same period of 2013 by 10,175.5 million baht or 18.93%

Mineral *Royalty Revenues* in the fiscal year of 2014 is 3,081.40 million baht, decreasing from the same period of 2013 by 3.36 million baht or 0.11%

Mineral Consumption of Thailand (Fiscal Year) 2013-2014

Quantity : Tonnes
Value : Million Baht

| Mineral | 2013 | | 2014 | |
|----------------------------------|------------|-----------------|------------|-----------------|
| | Quantity | Value | Quantity | Value |
| Lignite | 18,715,379 | 17,966.8 | 18,803,368 | 18,051.2 |
| Limestone | | | | |
| - Industrial rock-construction | 85,434,669 | 8,970.6 | 88,432,621 | 9,285.4 |
| - Industrial rock-cement | 68,282,290 | 8,193.9 | 65,301,911 | 7,836.2 |
| - Industrial rock-others | 5,532,492 | 663.9 | 6,219,769 | 746.4 |
| Zinc | | | | |
| - Zinc alloy | 34,497 | 2,261.3 | 30,288 | 2,278.4 |
| - Zinc metal | 34,955 | 2,149.8 | 29,491 | 2,007.5 |
| Tin metal | 2,994 | 1,987.0 | 3,167 | 2,309.8 |
| Gypsum (unground) | 3,921,183 | 1,981.4 | 4,076,051 | 2,284.4 |
| Basalt (industrial rock) | 9,949,238 | 1,343.2 | 13,710,801 | 1,850.9 |
| Rock salt | 1,342,383 | 1,476.6 | 1,345,524 | 1,480.1 |
| Granite | | | | |
| - Industrial rock | 7,421,501 | 1,001.9 | 6,926,473 | 935.1 |
| - Dimension stone* | 3,025 | 17.0 | 5,015 | 29.6 |
| Shale (industrial rock-cement) | 4,501,699 | 562.7 | 4,940,304 | 617.5 |
| Cement clay (industial rock) | 3,394,657 | 305.5 | 4,074,321 | 366.7 |
| Ceramic clay (industrial rock) | 69,506 | 38.2 | 237,486 | 130.6 |
| Feldspar | | | | |
| - Sodium (ground) | 160,591 | 224.8 | 204,795 | 286.7 |
| - Sodium (unground) | 96,601 | 67.6 | 151,983 | 106.4 |
| - Potassium (unground) | 1,612 | 2.7 | 10,650 | 16.5 |
| Dolomite | 1,137,063 | 398.0 | 1,169,364 | 409.3 |
| Kaolin | | | | |
| - Unwashed | 650,723 | 250.5 | 644,210 | 248.0 |
| - Washed | 147,230 | 131.9 | 146,702 | 140.8 |
| Glass sand | 479,084 | 167.7 | 1,030,530 | 360.7 |
| Marble | | | | |
| - Fragment* | 416,377 | 135.3 | 517,215 | 168.1 |
| - Dimension stone* | 51,810 | 198.2 | 7,848 | 30.6 |
| Calcite | 762,411 | 150.2 | 962,979 | 189.7 |
| Barite drilling mud (ground) | 17,950 | 69.9 | 38,597 | 150.3 |
| Ball clay | 335,008 | 184.3 | 242,490 | 133.4 |
| Andesite (industrial rock) | 1,031,154 | 139.2 | 987,892 | 133.4 |
| Quartz | | | | |
| - Unground | 54,860 | 41.1 | 141,582 | 106.2 |
| - Industrial rock | 236,077 | 24.8 | 112,933 | 11.9 |
| - Ground | 2,791 | 2.1 | 2,947 | 2.2 |
| Grawacke(industrial rock-others) | 746,901 | 78.4 | 978,068 | 102.7 |
| Rhyolite (industrial rock) | 811,966 | 85.3 | 844,627 | 88.7 |
| Others | | 57.9 | | 87.3 |
| Total | | 51,329.7 | | 52,982.7 |

Remark : * Quantity : Cubic metre

Mineral Royalty Revenues of Thailand (Fiscal Year) 2013-2014

Value : Million Baht

| Mineral | 2013 | 2014 | % change |
|--------------------------------|-----------------|-----------------|---------------|
| | | | |
| - Industrial rock-construction | 395.42 | 397.62 | 0.56% |
| - Industrial rock-cement | 556.54 | 571.11 | 2.62% |
| - Industrial rock-others | 28.41 | 35.44 | 24.74% |
| Lignite | 718.62 | 722.06 | 0.48% |
| Gold ore | 597.50 | 469.14 | -21.48% |
| Gypsum (unground) | 249.44 | 296.97 | 19.05% |
| Basalt (industrial rock) | 63.43 | 73.77 | 16.30% |
| Silver ore | 79.96 | 66.69 | -16.60% |
| Rock salt | 59.00 | 59.31 | 0.53% |
| Zinc metal | 41.56 | 43.75 | 5.27% |
| Shale (industrial rock-cement) | 34.18 | 42.55 | 24.49% |
| Granite | | | |
| - Industrial rock | 43.39 | 41.48 | -4.40% |
| - Dimension stone | 0.69 | 1.06 | 53.62% |
| Feldspar | | | |
| - Potassium (ground) | 0.10 | 0.21 | 110.00% |
| - Potassium (unground) | 0.77 | 0.72 | -6.49% |
| - Sodium (ground) | 13.14 | 12.15 | -7.53% |
| - Sodium (unground) | 18.47 | 26.35 | 42.66% |
| Dolomite | 34.67 | 36.52 | 5.34% |
| Iron ore | 21.80 | 30.29 | 38.94% |
| Anhydrite | 20.23 | 26.15 | 29.26% |
| Fluorite | 8.00 | 17.60 | 120.00% |
| Kaolin | | | |
| - Unwashed | 10.79 | 10.64 | -1.39% |
| - Washed | 5.55 | 4.90 | -11.71% |
| - Filler | 1.14 | 1.01 | -11.40% |
| Cement Clay | 18.45 | 15.14 | -17.94% |
| Glass sand | 8.11 | 13.62 | 67.94% |
| Tin ore | 6.40 | 10.59 | 65.47% |
| Barite | | | |
| - Drilling mud (ground) | 1.44 | 2.68 | 86.11% |
| - Chemical grade (ground) | 0.41 | 0.50 | 21.95% |
| - Unground | 6.07 | 5.92 | -2.47% |
| Marble | | | |
| - Dimension stone | 1.35 | 1.20 | -11.11% |
| - Fragment | 5.32 | 7.51 | 41.17% |
| Calcite | 6.51 | 8.19 | 25.81% |
| Ball clay | 7.44 | 6.75 | -9.27% |
| Andesite (industrial rock) | 5.31 | 6.08 | 14.50% |
| Ceramic Clay | 4.05 | 5.30 | 30.86% |
| Quartz | 2.09 | 4.48 | 114.35% |
| Others | 9.0 | 5.9 | -33.96% |
| Total | 3,084.76 | 3,081.40 | -0.11% |

Mineral Import of Thailand (Fiscal Year) 2013-2014

Quantity : Tonnes, Value : Million Baht

| Mineral | 2013 | | 2014 | |
|----------------------------|-----------|-----------------|------------|-----------------|
| | Quantity | Value | Quantity | Value |
| Bituminous coal | 7,212,537 | 18,111.1 | 10,802,803 | 29,559.6 |
| Coal Solid Fuels from Coal | 9,996,313 | 20,080.4 | 10,185,806 | 18,889.7 |
| Tin ore | 1,383 | 346.1 | 4,000 | 1,701.6 |
| Talc | 143,467 | 1,815.2 | 137,239 | 1,637.5 |
| Molybdenite ore | 7,923 | 573.6 | 11,516 | 1,382.5 |
| Zinc ore | 110,032 | 2,223.6 | 49,613 | 1,054.5 |
| Kaolin | | | | |
| - Ceramic | 16,393 | 127.3 | 18,596 | 160.2 |
| - Paper | 3,338 | 30.9 | 5,941 | 58.9 |
| - Others | 68,118 | 633.8 | 65,618 | 675.3 |
| Niobium and Vanadium ore | 11,794 | 2,257.9 | 19,958 | 868.8 |
| Anthracite | 107,271 | 528.9 | 142,013 | 752.8 |
| Asbestos | 53,694 | 807.5 | 44,894 | 714.7 |
| Bentonite | 93,640 | 587.8 | 106,275 | 668.4 |
| Sulphur | 137,843 | 779.0 | 111,565 | 630.8 |
| Zirconium ore | 35,193 | 511.1 | 27,237 | 536.9 |
| Coke | 34,730 | 501.6 | 38,843 | 504.6 |
| Granite | 133,604 | 495.9 | 125,256 | 485.5 |
| Others | | 3,355.3 | | 3,660.5 |
| Total | | 53,767.0 | | 63,942.5 |

Source : Department of Primary Industries and Mines, in cooperation with the Customs Department.

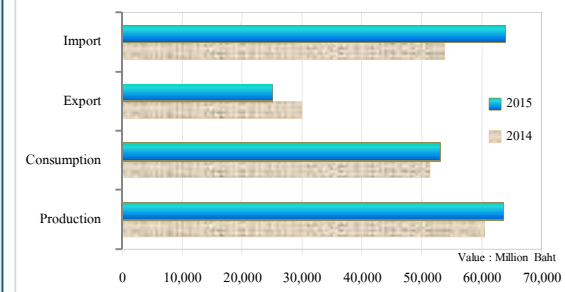
Number of Workers Employed in Mines & Operating Mine

| Mineral (Unit : Number) | September | | | |
|----------------------------|-----------------|------------|---------------|---------------|
| | Operating Mines | | Workers | |
| | 2013 | 2014 | 2013 | 2014 |
| Limestone - Construction | 188 | 195 | 3,766 | 3,892 |
| - Cement industry | 14 | 17 | 1,117 | 873 |
| - Other industries | 13 | 16 | 307 | 324 |
| Lignite | 6 | 6 | 1,916 | 1,920 |
| Gypsum (unground) | 44 | 44 | 840 | 845 |
| Granite - Industrial rock | 18 | 18 | 353 | 560 |
| - Dimension stone | 21 | 21 | 189 | 220 |
| Basalt (industrial rock) | 28 | 31 | 563 | 715 |
| Iron ore | 11 | 14 | 401 | 380 |
| Cement clay | 9 | 17 | 107 | 364 |
| Ball clay | 5 | 5 | 351 | 351 |
| Kaolin | 26 | 25 | 310 | 321 |
| Gold | 4 | 4 | 462 | 318 |
| Feldspar | 21 | 20 | 314 | 286 |
| Dolomite | 18 | 20 | 234 | 283 |
| Tin ore | 3 | 3 | 563 | 259 |
| Others | 97 | 94 | 1,719 | 1,767 |
| Total | 526 | 550 | 13,512 | 13,678 |



Mineral Statistics of Thailand 2013 - 2014 (Fiscal Year)

Minerals Value of Thailand in 2013-2014
(Fiscal Year)



Produced by :

Statistics and Data Management Group
Information and Communication Technology Center
Department of Primary Industries and Mines
Ministry of Industry