

**Statistics Report**

**No. ICTC 1/2559**

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**Mineral Statistics of Thailand**  
**2011 - 2015**

**Statistics Group**  
**Information and Communication Technology Center**  
**Department of Primary Industries and Mines**

Statistics Report

No. ICTC 1/2559

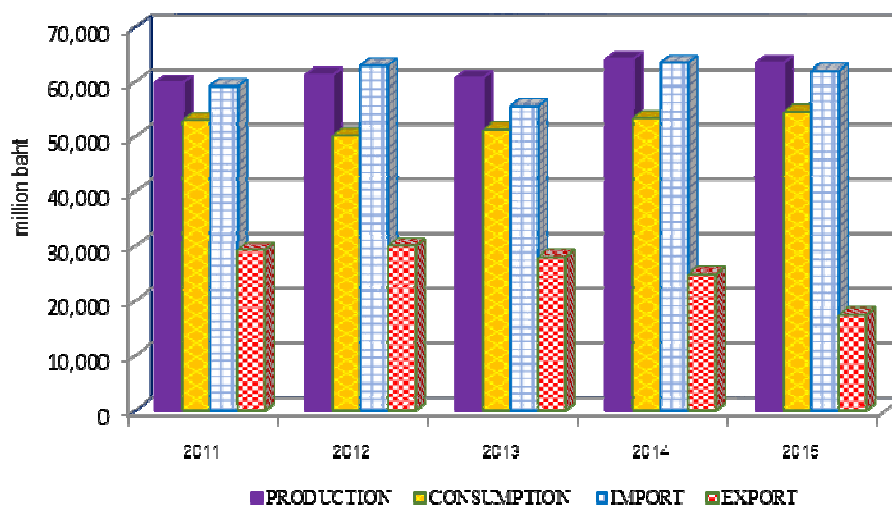
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# Mineral Statistics of Thailand

## 2011 - 2015

**Total Values of Mineral of Thailand 2011-2015**



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# A N D E S I T E

	2011	2012	2013	2014	2015
					Tonnes
<hr/>					
<b><u>Production</u></b>					
<b>Northern Region</b>					
Phetchabun	307,040	395,904	455,896	421,168	301,800
Uttaradit	638,547	464,435	449,038	388,810	370,648
<b>Central Region</b>					
Sara Buri	-	149,351	204,204	142,537	200,574
<b>Total Production</b>	<b>945,587</b>	<b>1,009,690</b>	<b>1,530,306</b>	<b>1,254,315</b>	<b>873,022</b>
<b>Value (Million Baht)</b>	<b>127.7</b>	<b>136.3</b>	<b>149.7</b>	<b>128.6</b>	<b>126.7</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>799,192</b>	<b>918,429</b>	<b>1,018,830</b>	<b>974,721</b>	<b>837,262</b>
<b>Value (Million Baht)</b>	<b>107.9</b>	<b>123.9</b>	<b>137.5</b>	<b>131.6</b>	<b>121.6</b>

# ANHYDRITE

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Nakhon Sawan	3,240	1,000	-	-	-
<b>Southern Region</b>					
Nakhon Si Thammarat	49,530	36,000	-	7,260	49,700
Surat Thani	561,378	820,172	1,264,077	969,558	826,324
<b>Total Production</b>	<b>614,148</b>	<b>857,172</b>	<b>1,264,077</b>	<b>976,818</b>	<b>876,024</b>
<b>Value (Million Baht)</b>	<b>304.0</b>	<b>424.3</b>	<b>648.7</b>	<b>565.5</b>	<b>552.6</b>
<b><u>Export</u></b>					
<b>1. Ground</b>					
<b>Asia</b>					
Japan	120	300	-	-	-
<b>Total Export</b>	<b>120</b>	<b>300</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>0.4</b>	<b>1.1</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>2. Underground</b>					
<b>Asia</b>					
India	45,000	33,950	159,200	35,000	50,000
Indonesia	8,000	-	-	-	2,000
Japan	383,100	437,785	504,282	547,940	426,710
Korea, South	195,300	231,116	369,550	391,111	316,450
Malaysia	49,650	72,055	128,625	135,100	168,550
Philippines	-	-	-	2,000	-
Vietnam	23,500	14,000	9,750	-	71,200
<b>Australia / Oceania</b>					
Australia	-	-	-	-	60
<b>Total Export</b>	<b>704,550</b>	<b>788,906</b>	<b>1,171,407</b>	<b>1,111,151</b>	<b>1,034,970</b>
<b>Value (Million Baht)</b>	<b>344.0</b>	<b>401.3</b>	<b>611.4</b>	<b>630.0</b>	<b>674.3</b>



	Tonnes				
	2011	2012	2013	2014	2015
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>3,240</b>	<b>25,150</b>	<b>-</b>	<b>142</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>1.6</b>	<b>12.4</b>	<b>-</b>	<b>0.1</b>	<b>-</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>0**</b>	<b>0**</b>	<b>19</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>0.0*</b>	<b>0.0*</b>	<b>0.5</b>	<b>-</b>	<b>-</b>

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

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

1 data from 'www.customs.go.th'

# A N T H R A C I T E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>210,701</b>	<b>138,064</b>	<b>101,683</b>	<b>184,231</b>	<b>166,002</b>
<b>Value (Million Baht)</b>	<b>1,407.3</b>	<b>808.1</b>	<b>570.0</b>	<b>833.9</b>	<b>667.6</b>

1 data from 'www.customs.go.th'

# ANTIMONY

Tonnes

		2011	2012	2013	2014	2015
<b><u>Production</u></b>						
<b>Southern Region</b>						
Satun	Ore	56	-	-	-	-
	Low grade	172	43	-	-	-
<b>Total Production</b>	<b>Ore</b>	<b>56</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Low grade</b>	<b>172</b>	<b>43</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>Ore</b>	<b>1.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Low grade</b>	<b>n.a.</b>	<b>n.a.</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b><u>Export</u></b>						
<b>Ore</b>						
<b>Asia</b>						
China		5,323	5,130	5,523	2,023	648
Hong Kong		1,884	1,000	-	25	-
India		-	-	27	-	-
Japan		-	-	-	-	0**
Korea, South		100	-	-	-	-
Malaysia		24	50	-	-	-
Myanmar		-	-	3	0.2	-
Taiwan		50	23	-	38	42
Vietnam		-	65	592	1,425	2,825
<b>Europe</b>						
Belgium		-	-	-	25	-
Netherlands		-	-	-	-	195
<b>Total Export</b>		<b>7,381</b>	<b>6,268</b>	<b>6,145</b>	<b>3,536</b>	<b>3,710</b>
<b>Value (Million Baht)</b>		<b>142.4</b>	<b>124.3</b>	<b>147.4</b>	<b>107.4</b>	<b>208.9</b>
<b><u>Import</u><sup>1</sup></b>						
<b>Total Import</b>		<b>8,803</b>	<b>6,949</b>	<b>8,290</b>	<b>4,392</b>	<b>6,134</b>
<b>Value (Million Baht)</b>		<b>263.1</b>	<b>145.2</b>	<b>218.6</b>	<b>145.0</b>	<b>378.4</b>

<sup>1</sup> data from 'www.customs.go.th'

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

# BALL CLAY

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Chiang Rai	3,600	5,480	46,400	-	-
Lampang	346,435	364,055	-	-	-
<b>Central Region</b>					
Prachin Buri	203	2,703	2,500	112	-
Sara Buri	74,120	74,900	61,882	120,500	78,800
<b>Southern Region</b>					
Nakhon Si Thammarat	690	210	1,405	2,470	2,445
<b>Total Production</b>	<b>425,048</b>	<b>447,348</b>	<b>112,187</b>	<b>123,082</b>	<b>81,245</b>
<b>Value (Million Baht)</b>	<b>233.8</b>	<b>246.0</b>	<b>61.7</b>	<b>67.7</b>	<b>44.7</b>
<b><u>Export</u></b>					
<b>Asia</b>					
Bangladesh	300	300	1,060	2,354	154
China	2,400	745	2,255	2,660	3,510
India	1,000	1,593	2,093	2,520	3,973
Indonesia	1,614	-	-	-	1,486
Iran	-	-	-	-	60
Korea, South	160	-	-	-	-
Malaysia	5,015	5,234	7,255	7,060	9,318
Philippines	128	344	-	-	-
Vietnam	4,588	5,375	7,070	8,920	7,960
<b>Total Export</b>	<b>15,205</b>	<b>13,591</b>	<b>19,733</b>	<b>23,514</b>	<b>26,461</b>
<b>Value (Million Baht)</b>	<b>68.6</b>	<b>67.0</b>	<b>87.7</b>	<b>100.5</b>	<b>120.6</b>

Tonnes

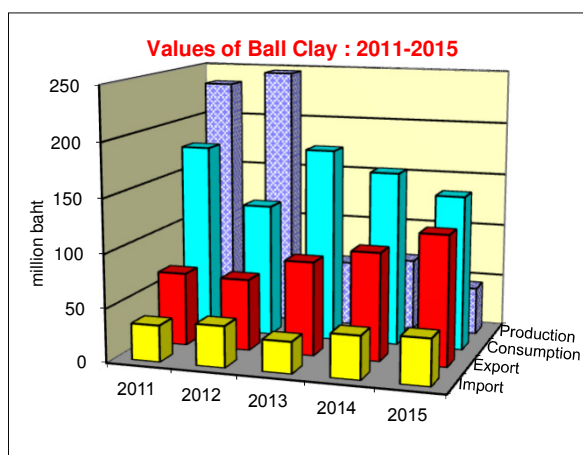
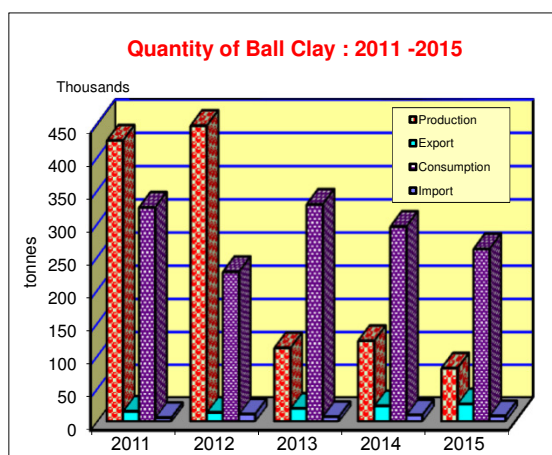
	2011	2012	2013	2014	2015
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**Consumption**

<b>Total Consumption</b>	<b>324,283</b>	<b>227,150</b>	<b>328,729</b>	<b>295,379</b>	<b>261,677</b>
<b>Value (Million Baht)</b>	<b>178.4</b>	<b>124.9</b>	<b>180.8</b>	<b>162.5</b>	<b>143.9</b>

**Import<sup>1</sup>**

<b>Total Import</b>	<b>5,523</b>	<b>11,006</b>	<b>6,932</b>	<b>9,710</b>	<b>8,246</b>
<b>Value (Million Baht)</b>	<b>34.2</b>	<b>38.7</b>	<b>29.5</b>	<b>40.3</b>	<b>43.0</b>



1 data from 'www.customs.go.th'

# B A R I T E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>1. Ground (Chemical grade)</b>					
<b>Northeastern Region</b>					
Loei	2,403	3,301	3,889	4,425	4,075
<b>Total Production</b>	<b>2,403</b>	<b>3,301</b>	<b>3,889</b>	<b>4,425</b>	<b>4,075</b>
<b>Value (Million Baht)</b>	<b>14.1</b>	<b>19.3</b>	<b>22.8</b>	<b>25.9</b>	<b>23.8</b>
<b>2. Ground (Drilling Mud grade)</b>					
<b>Northern Region</b>					
Phrae	-	14,200	40,693	48,540	127,591
<b>Total Production</b>	<b>-</b>	<b>14,200</b>	<b>40,693</b>	<b>48,540</b>	<b>127,591</b>
<b>Value (Million Baht)</b>	<b>-</b>	<b>55.3</b>	<b>158.5</b>	<b>189.1</b>	<b>497.0</b>
<b>3. Unground</b>					
<b>Northeastern Region</b>					
Udon Thani	45,000	-	-	-	-
<b>Southern Region</b>					
Nakhon Si Thammarat	20,300	46,998	62,855	81,996	38,995
<b>Total Production</b>	<b>65,300</b>	<b>46,998</b>	<b>62,855</b>	<b>81,996</b>	<b>38,995</b>
<b>Value (Million Baht)</b>	<b>96.9</b>	<b>69.8</b>	<b>93.3</b>	<b>121.8</b>	<b>57.8</b>
<b><u>Export</u></b>					
<b>1. Unground</b>					
<b>Asia</b>					
Indonesia	-	-	-	40	-
Malaysia	-	-	-	-	2,666
<b>Total Export</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>40</b>	<b>2,666</b>
<b>Value (Million Baht)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.2</b>	<b>4.0</b>

	Tonnes				
	2011	2012	2013	2014	2015
<b>2. Ground (Chemical grade)</b>					
<b>Africa</b>					
Egypt	-	-	-	22	22
Mauritius	25	-	-	-	-
South Africa	21	84	11	-	10
<b>Asia</b>					
Brunei	-	-	-	-	510
China	-	-	-	4	-
Hong Kong	40	60	60	80	60
India	-	-	-	21	-
Indonesia	68	245	180	1,049	806
Japan	935	530	381	454	369
Jordan	20	-	70	88	22
Korea, South	175	272	168	147	168
Malaysia	338	670	2,359	2,404	2,023
Singapore	105	250	280	220	228
Taiwan	357	281	167	377	489
U.A.E.	-	87	154	176	-
Vietnam	200	557	148	832	910
<b>Australia / Oceania</b>					
Australia	624	1,032	1,440	768	1,104
New Zealand	44	-	117	48	24
<b>Europe</b>					
Netherlands	-	24	-	-	-
<b>Total Export</b>	<b>2,952</b>	<b>4,092</b>	<b>5,535</b>	<b>6,690</b>	<b>6,745</b>
<b>Value (Million Baht)</b>	<b>24.0</b>	<b>39.9</b>	<b>43.3</b>	<b>52.5</b>	<b>84.9</b>
<b>3. Ground (Drilling Mud grade)</b>					
<b>Asia</b>					
Brunei	-	-	-	-	2,000
Korea, South	-	-	-	-	282
Malaysia	-	-	-	756	11,658
Myanmar	-	-	-	-	1,000
Singapore	-	-	-	756	904
<b>Total Export</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,512</b>	<b>15,844</b>
<b>Value (Million Baht)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8.5</b>	<b>68.4</b>

	Tonnes				
	2011	2012	2013	2014	2015
<b><u>Consumption</u></b>					
<b>1. Ground (Drilling mud)</b>	-	13,956	21,707	48,540	88,061
<b>Value (Million Baht)</b>	-	54.4	84.5	189.1	343.0
<b>2. Unground</b>	21,229	-	-	1,270	18,050
<b>Value (Million Baht)</b>	31.5	-	-	1.9	26.8
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	94,650	104,668	67,537	65,236	98,358
<b>Value (Million Baht)</b>	399.2	509.8	285.9	202.0	183.6

1 data from 'www.customs.go.th'



# B A S A L T

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northeastern Region</b>					
Buri Ram	4,310,095	4,160,688	4,036,141	4,517,885	4,289,522
Nakhon Ratchasima	1,286,013	1,318,488	1,359,865	1,694,692	1,554,918
Si Sa Ket	133,072	-	-	-	83,320
Surin	3,826,236	3,289,275	2,867,249	5,919,373	4,397,270
Ubon Ratchathani	1,762,796	1,944,372	2,609,835	1,998,660	2,443,265
<b>Central Region</b>					
Lop Buri	-	-	-	-	84,640
Trat	-	-	500	2,000	6,728
<b>Total Production</b>	<b>11,318,212</b>	<b>10,712,823</b>	<b>10,873,590</b>	<b>14,132,610</b>	<b>12,859,663</b>
<b>Value (Million Baht)</b>	<b>1,527.9</b>	<b>1,446.2</b>	<b>1,467.9</b>	<b>1,907.9</b>	<b>1,848.2</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>10,985,713</b>	<b>10,450,773</b>	<b>10,223,704</b>	<b>13,980,299</b>	<b>12,055,712</b>
<b>Value (Million Baht)</b>	<b>1,483.1</b>	<b>1,410.9</b>	<b>1,380.2</b>	<b>1,887.3</b>	<b>1,734.7</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>57,240</b>	<b>39,126</b>	<b>25,392</b>	<b>25,937</b>	<b>25,122</b>
<b>Value (Million Baht)</b>	<b>104.0</b>	<b>113.2</b>	<b>163.8</b>	<b>166.5</b>	<b>199.5</b>

1 data from 'www.customs.go.th'

# BENTONITE

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Central Region</b>					
Lop Buri	55,220	141,000	150	-	-
<b>Total Production</b>	<b>55,220</b>	<b>141,000</b>	<b>150</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>33.1</b>	<b>84.6</b>	<b>0.1</b>	<b>-</b>	<b>-</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>40,000</b>	<b>30,000</b>	<b>150</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>24.0</b>	<b>18.0</b>	<b>0.1</b>	<b>-</b>	<b>-</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>103,555</b>	<b>83,377</b>	<b>103,228</b>	<b>101,284</b>	<b>104,569</b>
<b>Value (Million Baht)</b>	<b>505.9</b>	<b>555.1</b>	<b>639.3</b>	<b>665.3</b>	<b>717.7</b>

1 data from 'www.customs.go.th'

# CALCITE

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Lamphun	-	-	1,000	-	-
Uttaradit	3,200	-	-	-	-
<b>Northeastern Region</b>					
Nakhon Ratchasima	-	-	-	21,417	-
<b>Central Region</b>					
Lop Buri	783,050	865,800	840,746	970,564	1,281,765
<b>Total Production</b>	<b>786,250</b>	<b>865,800</b>	<b>841,746</b>	<b>991,981</b>	<b>1,281,765</b>
<b>Value (Million Baht)</b>	<b>154.9</b>	<b>170.6</b>	<b>165.8</b>	<b>195.4</b>	<b>610.8</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>439,759</b>	<b>803,377</b>	<b>839,246</b>	<b>975,020</b>	<b>1,355,664</b>
<b>Value (Million Baht)</b>	<b>86.6</b>	<b>158.3</b>	<b>165.3</b>	<b>192.1</b>	<b>632.4</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	-	12	60	41	-
<b>Value (Million Baht)</b>	-	0.1	0.2	0.2	-

1 data from 'www.customs.go.th'

# CEMENT CLAY

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Lampang	143,475	-	-	81,258	230,591
Nakhon Sawan	34,699	-	-	20,000	20,000
<b>Northeastern Region</b>					
Nakhon Ratchasima	272,360	58,406	758,081	872,665	1,180,754
<b>Central Region</b>					
Lop Buri	962,414	-	128,036	280,510	857,160
Prachin Buri	431,000	-	-	9,000	43,000
Sara Buri	4,130,813	5,948,633	1,381,108	1,963,455	2,067,178
<b>Southern Region</b>					
Krabi	219,087	-	266,872	897,128	384,000
Nakhon Si Thammarat	2,378,036	-	-	-	-
<b>Total Production</b>	<b>8,571,884</b>	<b>6,007,039</b>	<b>2,534,097</b>	<b>4,124,016</b>	<b>4,782,683</b>
<b>Value (Million Baht)</b>	<b>771.5</b>	<b>540.6</b>	<b>228.1</b>	<b>371.2</b>	<b>430.4</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>6,525,005</b>	<b>1,622,039</b>	<b>3,793,366</b>	<b>4,452,240</b>	<b>4,760,412</b>
<b>Value (Million Baht)</b>	<b>587.3</b>	<b>145.9</b>	<b>341.4</b>	<b>407.9</b>	<b>428.4</b>

# C E R A M I C   C L A Y

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Chiang Rai	37,173	-	-	-	-
Lampang	164,076	-	-	-	-
<b>Northeastern Region</b>					
Chaiyaphum	-	-	15,000	221,500	304,800
Nakhon Ratchasima	180,956	-	-	-	-
<b>Central Region</b>					
Lop Buri	-	-	-	-	102,000
Sara Buri	21,924	60,327	62,358	91,463	107,244
<b>Total Production</b>	<b>404,129</b>	<b>60,327</b>	<b>77,358</b>	<b>312,963</b>	<b>514,044</b>
<b>Value (Million Baht)</b>	<b>222.3</b>	<b>33.2</b>	<b>42.6</b>	<b>172.1</b>	<b>282.7</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>276,466</b>	<b>67,847</b>	<b>138,723</b>	<b>220,093</b>	<b>373,642</b>
<b>Value (Million Baht)</b>	<b>152.1</b>	<b>37.3</b>	<b>76.3</b>	<b>121.1</b>	<b>205.5</b>

# C O L U M B I T E - T A N T A L I T E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Export</u></b>					
<b>Asia</b>					
China	-	-	-	50	-
<b>Total Export</b>	-	-	-	<b>50</b>	-
<b>Value (Million Baht)</b>	-	-	-	<b>7.1</b>	-
<b><u>Import (Columbite)<sup>1</sup></u></b>					
<b>Total Import</b>	<b>196</b>	<b>30</b>	<b>117</b>	<b>10</b>	<b>319</b>
<b>Value (Million Baht)</b>	<b>81.0</b>	<b>26.7</b>	<b>88.5</b>	<b>5.5</b>	<b>143.1</b>

1 data from 'www.customs.go.th'

# C O P P E R

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production (metal)</u></b>					
<b>Northeastern Region</b>					
Loei	525	721	0**	229	-
<b>Total Production</b>	<b>525</b>	<b>721</b>	<b>0**</b>	<b>229</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>146.4</b>	<b>186.5</b>	<b>0.0*</b>	<b>52.3</b>	<b>-</b>
<b><u>Export</u></b>					
<b>1. Metal</b>					
<b>Asia</b>					
Hong Kong	525	721	0**	229	-
<b>Total Export</b>	<b>525</b>	<b>721</b>	<b>0**</b>	<b>229</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>146.4</b>	<b>186.5</b>	<b>0.0*</b>	<b>52.3</b>	<b>-</b>
<b>2. Dross</b>					
<b>Europe</b>					
Belgium	-	-	-	8	-
<b>Total Export</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3.4</b>	<b>-</b>
<b>3. Powder</b>					
<b>Europe</b>					
U.K	2	-	-	-	-
<b>Total Export</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>0.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b><u>Import (ore)<sup>1</sup></u></b>					
<b>Total Import</b>	<b>352</b>	<b>1,735</b>	<b>6,666</b>	<b>9,502</b>	<b>18,818</b>
<b>Value (Million Baht)</b>	<b>4.1</b>	<b>7.4</b>	<b>37.3</b>	<b>56.8</b>	<b>815.4</b>

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

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

1 data from 'www.customs.go.th'

# D I A T O M I T E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Lampang	38,130	8,500	-	-	-
<b>Total Production</b>	<b>38,130</b>	<b>8,500</b>	-	-	-
<b>Value (Million Baht)</b>	<b>34.3</b>	<b>7.7</b>	-	-	-
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>11,300</b>	<b>27,060</b>	-	-	-
<b>Value (Million Baht)</b>	<b>10.2</b>	<b>24.4</b>	-	-	-



# D O L O M I T E

	Tonnes				
	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Phetchabun	9,710	12,680	13,510	14,190	14,000
Phrae	2,380	3,873	4,653	4,792	3,717
<b>Central Region</b>					
Kanchanaburi	588,047	150,400	95,400	59,368	266,091
<b>Southern Region</b>					
Krabi	102,000	120,000	120,000	153,514	473,406
Phangnga	98,593	123,898	141,341	150,615	179,577
Songkhla	-	25,724	114,699	285,800	259,137
Surat Thani	1,752,370	1,938,937	1,613,533	1,608,207	845,665
Trang	3,665	233,485	384,000	195,000	261,000
<b>Total Production</b>	<b>2,556,765</b>	<b>2,608,997</b>	<b>2,487,135</b>	<b>2,471,486</b>	<b>2,302,592</b>
<b>Value (Million Baht)</b>	<b>894.9</b>	<b>913.1</b>	<b>870.5</b>	<b>865.0</b>	<b>1,018.3</b>
<b><u>Export</u></b>					
<b>1. Ground</b>					
<b>Asia</b>					
Bangladesh	30	30	616	1,354	-
Malaysia	-	-	20	-	-
Myanmar	-	-	-	1,500	-
Philippines	59	135	2,493	1,580	-
<b>Total Export</b>	<b>89</b>	<b>165</b>	<b>3,129</b>	<b>4,434</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>0.4</b>	<b>0.7</b>	<b>0.8</b>	<b>1.1</b>	<b>-</b>
<b>2. Underground</b>					
<b>Asia</b>					
Bangladesh	-	-	-	-	2,120
India	452,620	167,110	347,480	588,415	497,134
Indonesia	-	-	-	8,300	-
Japan	728,640	836,050	519,150	553,750	537,900
Malaysia	-	-	-	7,385	40,250
Taiwan	-	-	-	90,000	135,650
<b>Total Export</b>	<b>1,181,260</b>	<b>1,003,160</b>	<b>866,630</b>	<b>1,247,850</b>	<b>1,213,054</b>
<b>Value (Million Baht)</b>	<b>343.8</b>	<b>313.0</b>	<b>292.5</b>	<b>469.9</b>	<b>469.3</b>

Tonnes

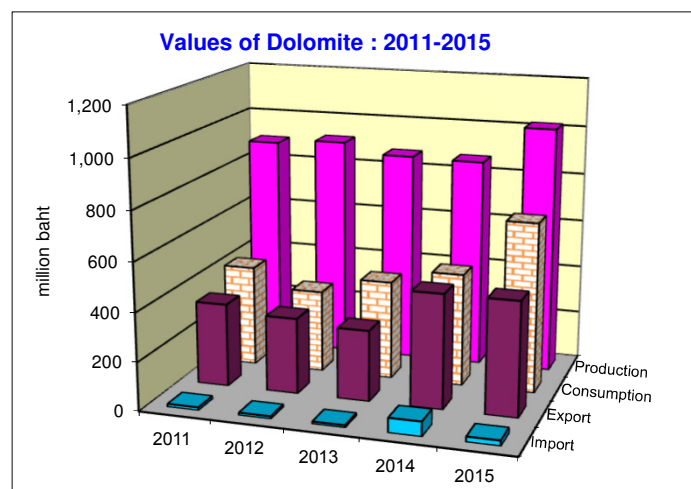
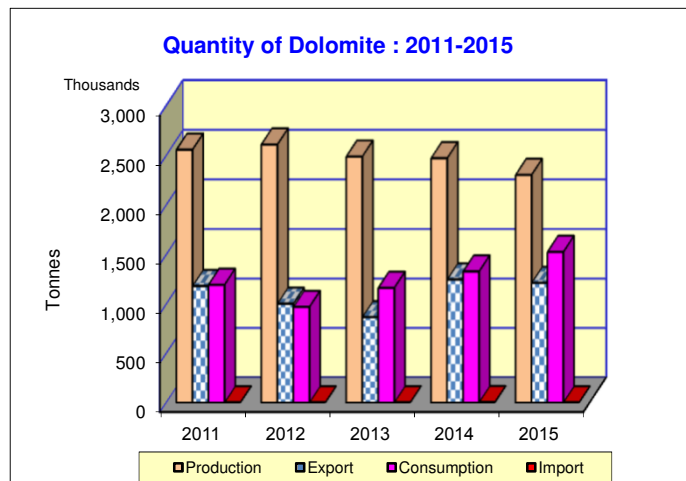
	2011	2012	2013	2014	2015
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**Consumption**

<b>Total Consumption</b>	<b>1,194,362</b>	<b>970,750</b>	<b>1,163,580</b>	<b>1,328,785</b>	<b>1,525,810</b>
<b>Value (Million Baht)</b>	<b>418.0</b>	<b>339.8</b>	<b>407.3</b>	<b>465.1</b>	<b>699.4</b>

**Import<sup>1</sup>**

<b>Total Import</b>	<b>1,224</b>	<b>940</b>	<b>853</b>	<b>3,137</b>	<b>1,495</b>
<b>Value (Million Baht)</b>	<b>12.2</b>	<b>10.5</b>	<b>9.5</b>	<b>59.9</b>	<b>21.6</b>



1 data from 'www.customs.go.th'

# F E L D S P A R

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>1. Potassium Feldspar (Unground)</b>					
<b>Central Region</b>					
Kanchanaburi	138,500	2,000	3,000	11,000	400
Prachuap Khiri Khan	169	210	168	-	-
<b>Southern Region</b>					
Nakhon Si Thammarat	500	3,500	1,690	4,220	2,420
<b>Total Production</b>	<b>139,169</b>	<b>5,710</b>	<b>4,858</b>	<b>15,220</b>	<b>2,820</b>
<b>Value (Million Baht)</b>	<b>236.6</b>	<b>9.7</b>	<b>8.3</b>	<b>25.9</b>	<b>4.8</b>
<b>2. Sodium Feldspar (Unground)</b>					
<b>Northern Region</b>					
Tak	132,493	204,930	183,098	273,346	250,943
<b>Central Region</b>					
Kanchanaburi	640	630	500	900	5,096
Ratchaburi	98,350	71,253	108,700	92,402	126,017
<b>Southern Region</b>					
Nakhon Si Thammarat	670,500	818,200	775,500	1,031,560	947,040
<b>Total Production</b>	<b>901,983</b>	<b>1,095,013</b>	<b>1,067,798</b>	<b>1,398,208</b>	<b>1,329,096</b>
<b>Value (Million Bath)</b>	<b>631.4</b>	<b>766.5</b>	<b>747.5</b>	<b>978.7</b>	<b>930.4</b>
<b><u>Export</u></b>					
<b>1. Potassium Feldspar (Ground)</b>					
<b>Asia</b>					
Malaysia	-	-	-	30	-
Vietnam	72	-	-	-	-
<b>Total Export</b>	<b>72</b>	<b>-</b>	<b>-</b>	<b>30</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>0.2</b>	<b>-</b>	<b>-</b>	<b>0.1</b>	<b>-</b>

Tonnes

	2011	2012	2013	2014	2015
<b>2. Sodium Feldspar (Ground)</b>					
<b>Asia</b>					
Bangladesh	24,700	84,240	115,769	126,722	207,670
China	-	-	96	-	-
India	56,800	57,200	39,386	25,700	33,000
Indonesia	71,189	114,008	113,228	171,716	177,812
Malaysia	186,903	191,130	111,411	98,910	101,190
Myanmar	14	-	3,600	-	-
Saudi Arabia	-	-	-	15,000	-
Singapore	-	-	-	-	18,500
U.A.E.	243,874	212,770	321,230	369,500	198,900
Vietnam	24,817	37,217	30,973	46,574	33,045
<b>Europe</b>					
Belgium	-	-	-	28,950	-
<b>North America</b>					
Grenada	-	21,000	-	-	-
<b>Total Export</b>	<b>608,297</b>	<b>717,565</b>	<b>735,693</b>	<b>883,072</b>	<b>770,117</b>
<b>Value (Million Baht)</b>	<b>449.0</b>	<b>603.0</b>	<b>596.0</b>	<b>770.5</b>	<b>707.9</b>
<b>3. Sodium Feldspar (Unground)</b>					
<b>Asia</b>					
India	8,200	-	-	-	-
<b>Total Export</b>	<b>8,200</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>3.6</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Consumption</b>					
<b>1. Potassium Feldspar (Unground)</b>	<b>13,935</b>	<b>2,618</b>	<b>1,856</b>	<b>9,950</b>	<b>14,200</b>
<b>Value (Million Baht)</b>	<b>23.7</b>	<b>4.5</b>	<b>3.1</b>	<b>15.3</b>	<b>24.1</b>
<b>2. Sodium Feldspar (Ground)</b>	<b>165,403</b>	<b>162,716</b>	<b>172,043</b>	<b>212,094</b>	<b>54,530</b>
<b>Value (Million Baht)</b>	<b>231.6</b>	<b>227.8</b>	<b>240.8</b>	<b>296.9</b>	<b>76.3</b>
<b>3. Sodium Feldspar (Unground)</b>	<b>214,211</b>	<b>175,272</b>	<b>100,401</b>	<b>155,867</b>	<b>159,779</b>
<b>Value (Million Baht)</b>	<b>150.0</b>	<b>122.7</b>	<b>70.3</b>	<b>109.1</b>	<b>111.8</b>

	Tonnes				
	2011	2012	2013	2014	2015
<b><u>Import</u><sup>1</sup></b>					
<b>1. Potassium Feldspar</b>	<b>33,342</b>	<b>35,505</b>	<b>30,395</b>	<b>36,000</b>	<b>34,389</b>
<b>Value (Million Baht)</b>	<b>104.6</b>	<b>115.1</b>	<b>94.6</b>	<b>117.6</b>	<b>116.2</b>
<b>2. Sodium Feldspar</b>	<b>3,772</b>	<b>2,140</b>	<b>5,871</b>	<b>2,807</b>	<b>1,645</b>
<b>Value (Million Baht)</b>	<b>13.8</b>	<b>10.4</b>	<b>20.9</b>	<b>11.6</b>	<b>7.0</b>
<b>3. Other Feldspar</b>	<b>3,935</b>	<b>3,900</b>	<b>5,612</b>	<b>8,275</b>	<b>14,403</b>
<b>Value (Million Baht)</b>	<b>22.1</b>	<b>28.0</b>	<b>35.9</b>	<b>53.6</b>	<b>84.0</b>

1 data from 'www.customs.go.th'

# F L U O R I T E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Lamphun	4,393	7,602	2,432	4,590	14,495
Phrae	700	2,000	-	-	600
<b>Total Production</b>	<b>5,093</b>	<b>9,602</b>	<b>2,432</b>	<b>4,590</b>	<b>15,095</b>
<b>Value (Million Baht)</b>	<b>20.7</b>	<b>50.8</b>	<b>14.1</b>	<b>30.7</b>	<b>112.4</b>
<b><u>Export (Metallurgical Grade)</u></b>					
<b>Asia</b>					
China	-	-	-	-	550
Hong Kong	-	-	-	325	-
India	-	6	820	3,090	20,613
Indonesia	-	-	-	200	80
Japan	-	20	-	-	-
Korea, North	-	-	-	-	330
Korea, South	-	-	-	410	22
Singapore	-	-	-	-	25
Taiwan	-	-	1,600	850	-
<b>Europe</b>					
Turkey	-	-	150	-	850
<b>Total Export</b>	<b>-</b>	<b>26</b>	<b>2,570</b>	<b>4,875</b>	<b>22,470</b>
<b>Value (Million Baht)</b>	<b>-</b>	<b>0.2</b>	<b>13.8</b>	<b>35.4</b>	<b>121.8</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>2,832</b>	<b>1,423</b>	<b>48</b>	<b>60</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>11.5</b>	<b>5.9</b>	<b>0.3</b>	<b>0.4</b>	<b>-</b>
<b><u>Import<sup>1</sup></u></b>					
<b>Total Import</b>	<b>1022</b>	<b>555</b>	<b>578</b>	<b>545</b>	<b>498</b>
<b>Value (Million Baht)</b>	<b>18.0</b>	<b>12.1</b>	<b>12.2</b>	<b>12.1</b>	<b>8.7</b>

1 data from 'www.customs.go.th'

# G A R N E T

Tonnes

	2011	2012	2013	2014	2015
<b><u>Export</u></b>					
<b>Europe</b>					
Ukraine	-	23	162	216	-
<b>Total Export</b>	-	<b>23</b>	<b>162</b>	<b>216</b>	-
<b>Value (Million Baht)</b>	-	<b>0.1</b>	<b>0.7</b>	<b>1.1</b>	-

# GLASS SAND

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northeastern Region</b>					
Bueng Kan	-	-	-	1,887	23,289
Roi Et	-	-	-	5,950	45,900
<b>Central Region</b>					
Cha Choeng Sao	-	30,000	80,000	190,000	215,000
Chanthaburi	117,470	107,600	96,431	240,110	193,560
Rayong	102,851	295,294	464,850	559,843	600,632
<b>Southern Region</b>					
Chumphon	1,400	1,200	234,804	136,116	113,231
<b>Total Production</b>	<b>221,721</b>	<b>434,094</b>	<b>876,085</b>	<b>1,133,906</b>	<b>1,191,612</b>
<b>Value (Million Baht)</b>	<b>77.6</b>	<b>151.9</b>	<b>306.6</b>	<b>396.9</b>	<b>838.3</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>196,778</b>	<b>393,269</b>	<b>568,904</b>	<b>1,059,202</b>	<b>992,137</b>
<b>Value (Million Baht)</b>	<b>68.9</b>	<b>137.6</b>	<b>199.1</b>	<b>370.7</b>	<b>659.3</b>
<b><u>Import<sup>1</sup></u></b>					
<b>Total Import</b>	<b>27,943</b>	<b>51,698</b>	<b>110,329</b>	<b>165,366</b>	<b>144,273</b>
<b>Value (Million Baht)</b>	<b>120.3</b>	<b>192.5</b>	<b>234.9</b>	<b>299.3</b>	<b>250.3</b>

1 data from 'www.customs.go.th'



# G N E I S S

	Tonnes				
	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Central Region</b>					
Prachuap Khiri Khan	60	140	30	-	-
<b>Total Production</b>	<b>60</b>	<b>140</b>	<b>30</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>0.2</b>	<b>0.6</b>	<b>0.1</b>	<b>-</b>	<b>-</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>60</b>	<b>40</b>	<b>125</b>	<b>-</b>	<b>70</b>
<b>Value (Million Baht)</b>	<b>0.2</b>	<b>0.2</b>	<b>0.5</b>	<b>-</b>	<b>0.3</b>

# G O L D

Gram

	2011	2012	2013	2014	2015
<b><u>Production (Metal)</u></b>					
<b>Northern Region</b>					
Phetchabun	1,197,788	3,486,881	1,770,621	4,114,053	3,305,225
Phichit	1,072,040	821,347	2,625,470	311,815	-
<b>Northeastern Region</b>					
Loei	590,401	593,622	22,797	87,726	-
<b>Total Production</b>	<b>2,860,229</b>	<b>4,901,850</b>	<b>4,418,889</b>	<b>4,513,594</b>	<b>3,305,225</b>
<b>Value (Million Baht)</b>	<b>4,425.4</b>	<b>8,131.3</b>	<b>6,105.7</b>	<b>5,946.4</b>	<b>4,210.4</b>
<b><u>Export (Metal)</u></b>					
<b>Asia</b>					
Hong Kong	2,860,229	4,901,850	4,418,889	4,513,594	3,305,225
<b>Total Export</b>	<b>2,860,229</b>	<b>4,901,850</b>	<b>4,418,889</b>	<b>4,513,594</b>	<b>3,305,225</b>
<b>Value (Million Baht)</b>	<b>4,425.4</b>	<b>8,131.3</b>	<b>6,105.7</b>	<b>5,946.4</b>	<b>4,210.4</b>

# G R A N I T E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>1. Dimension Stone*</b>					
<b>Northern Region</b>					
Kamphaeng Phet	-	-	-	-	707
Nakhon Sawan	189	27	-	82	-
Phichit	50	5	-	-	-
Tak	4,164	4,000	2,010	2,136	3,673
<b>Central Region</b>					
Cha Choeng Sao	450	459	220	58	179
Nakhon Nayok	20	-	-	-	-
Prachuap Khiri Khan	395	1,015	720	700	600
<b>Total Production</b>	<b>5,268</b>	<b>5,506</b>	<b>2,950</b>	<b>2,976</b>	<b>5,159</b>
<b>Value (Million Baht)</b>	<b>26.9</b>	<b>28.1</b>	<b>17.4</b>	<b>17.6</b>	<b>29.9</b>
<b>2. Industrial Rock</b>					
<b>Northern Region</b>					
Tak	106,200	97,100	138,900	199,571	190,764
<b>Central Region</b>					
Cha Chaeng Sao	131,240	108,600	137,950	222,200	291,500
Chon Buri	2,360,071	2,362,516	2,855,235	3,348,695	2,787,910
Kanchanaburi	-	6,000	-	-	161,000
Prachuap Khiri Khan	17,904	19,189	21,059	31,738	80,993
Rayong	1,285,870	1,909,800	1,896,900	997,000	1,539,286
<b>Southern Region</b>					
Narathiwat	700,555	679,464	853,306	1,130,395	1,222,374
Phangnga	502,678	508,958	544,954	609,607	639,619
Songkhla	543,941	655,129	619,930	1,051,406	1,161,055
<b>Total Production</b>	<b>5,648,459</b>	<b>6,346,756</b>	<b>7,068,234</b>	<b>7,590,612</b>	<b>8,074,501</b>
<b>Value (Million Baht)</b>	<b>762.5</b>	<b>856.8</b>	<b>954.2</b>	<b>1,024.7</b>	<b>1,162.3</b>

\* unit : cubic meter

Tonnes

	2011	2012	2013	2014	2015
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**Export (Industrial Rock)****Asia**

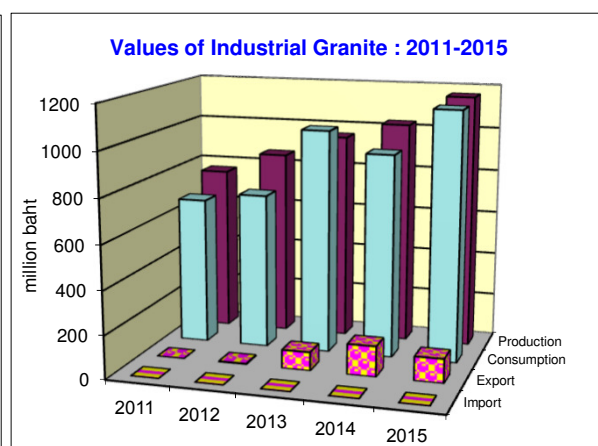
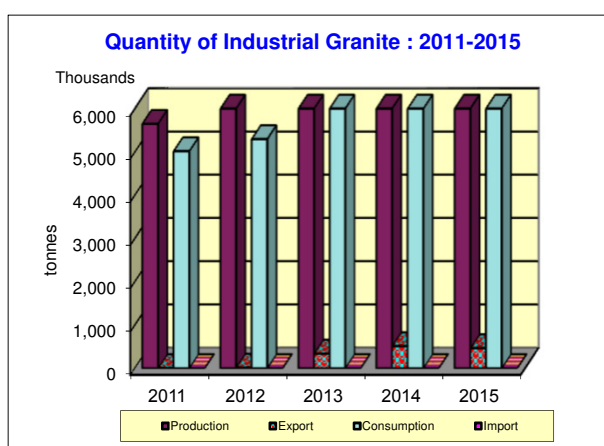
Myanmar	-	-	-	5	-
Singapore	-	8,500	331,474	505,710	458,800
<b>Total Export</b>	-	<b>8,500</b>	<b>331,474</b>	<b>505,715</b>	<b>458,800</b>
<b>Value (Million Baht)</b>	-	<b>4.0</b>	<b>85.9</b>	<b>140.7</b>	<b>111.3</b>

**Consumption**

<b>1. Dimension Stone *</b>	<b>6,069</b>	<b>5,383</b>	<b>4,210</b>	<b>3,339</b>	<b>4,977</b>
<b>Value (Million Baht)</b>	<b>30.9</b>	<b>27.5</b>	<b>24.8</b>	<b>19.7</b>	<b>28.4</b>
<b>2. Industrial Rock</b>	<b>5,013,445</b>	<b>5,293,829</b>	<b>7,601,333</b>	<b>6,903,192</b>	<b>7,881,552</b>
<b>Value (Million Baht)</b>	<b>676.8</b>	<b>714.7</b>	<b>1,026.2</b>	<b>931.9</b>	<b>1,141.3</b>

**Import (Dimension Stone)<sup>1</sup>**

<b>Total Import</b>	<b>136,495</b>	<b>136,741</b>	<b>132,200</b>	<b>128,227</b>	<b>112,695</b>
<b>Value (Million Baht)</b>	<b>482.9</b>	<b>491.3</b>	<b>491.8</b>	<b>525.1</b>	<b>492.4</b>



\* unit : cubic meter

1 data from 'www.customs.go.th'

# G R A V E L

	Tonnes				
	2011	2012	2013	2014	2015
<b><u>Export (Industrial Rock)</u></b>					
<b>Asia</b>					
Malaysia	349	129	113	45	155
Qatar	-	-	81	-	-
Singapore	336	360	432	528	264
<b>Total Export</b>	<b>685</b>	<b>489</b>	<b>626</b>	<b>573</b>	<b>419</b>
<b>Value (Million Baht)</b>	<b>2.0</b>	<b>1.9</b>	<b>2.4</b>	<b>2.8</b>	<b>2.4</b>

# G R A Y W A C K E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production (Industrial Rock)</u></b>					
<b>Central Region</b>					
Chanthaburi	430,267	269,637	328,737	338,634	340,461
Trat	536,550	467,984	532,713	716,187	642,570
<b>Total Production</b>	<b>966,817</b>	<b>737,621</b>	<b>861,450</b>	<b>1,054,821</b>	<b>983,031</b>
<b>Value (Million Baht)</b>	<b>101.5</b>	<b>77.5</b>	<b>90.5</b>	<b>110.8</b>	<b>112.5</b>
<b><u>Consumption (Industrial Rock)</u></b>					
<b>Total Consumption</b>	<b>934,171</b>	<b>810,849</b>	<b>769,942</b>	<b>1,018,120</b>	<b>942,630</b>
<b>Value (Million Baht)</b>	<b>91.1</b>	<b>85.1</b>	<b>80.8</b>	<b>106.9</b>	<b>104.6</b>

# G Y P S U M

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Nakhon Sawan	2,500,980	3,272,585	3,392,836	3,688,369	3,704,056
Phichit	424,874	22,308	134,400	453,102	400,246
<b>Southern Region</b>					
Nakhon Si Thammarat	1,730,224	1,946,534	2,217,212	1,472,991	2,033,928
Surat Thani	6,337,996	6,205,772	6,638,200	6,830,638	5,128,914
<b>Total Production</b>	<b>10,994,074</b>	<b>11,447,199</b>	<b>12,382,648</b>	<b>12,445,100</b>	<b>11,267,144</b>
<b>Value (Million Baht)</b>	<b>5,442.1</b>	<b>5,666.4</b>	<b>6,358.7</b>	<b>7,205.1</b>	<b>7,040.4</b>
<b><u>Export</u></b>					
<b>1. Ground</b>					
<b>Asia</b>					
China	-	-	22	220	-
Japan	1,520	2,080	2,340	1,560	1,360
Myanmar	408	120	1,392	528	-
Taiwan	210	378	352	903	252
<b>Total Export</b>	<b>2,138</b>	<b>2,578</b>	<b>4,106</b>	<b>3,211</b>	<b>1,612</b>
<b>Value (Million Baht)</b>	<b>7.9</b>	<b>10.3</b>	<b>15.8</b>	<b>11.2</b>	<b>6.4</b>

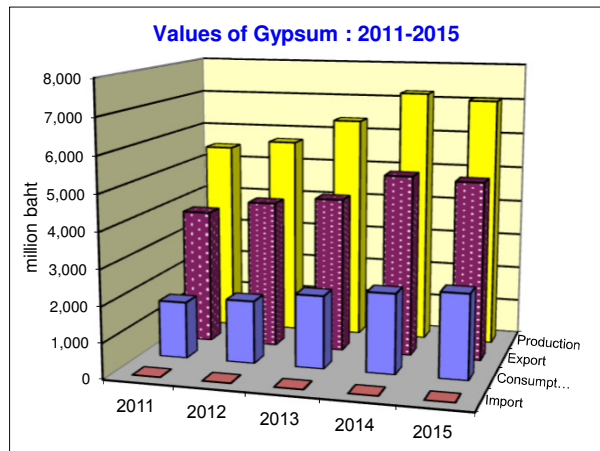
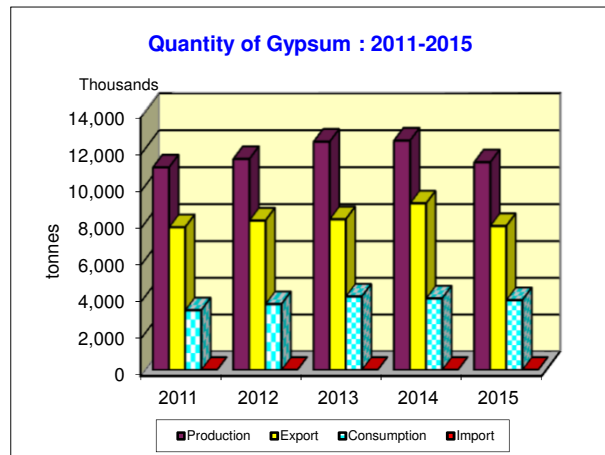
	Tonnes				
	2011	2012	2013	2014	2015
<b>2. Unground</b>					
<b>Asia</b>					
Bangladesh	474,649	642,955	594,375	567,268	191,094
Brunei	15,400	15,700	16,000	8,800	-
Cambodia	56,000	86,780	62,800	80,600	122,100
China	11,400	26,028	84,090	87,210	158,425
India	1,303,811	865,895	480,905	91,650	-
Indonesia	1,611,060	1,879,282	1,923,604	2,008,490	2,100,013
Japan	997,701	929,600	1,082,160	1,426,345	941,092
Korea,South	92,860	108,500	120,300	145,880	81,500
Malaysia	1,165,757	1,284,704	1,344,784	1,360,885	1,487,015
Myanmar	-	-	-	-	11,000
Nepal	-	-	8,000	-	-
Philippines	280,896	372,270	412,150	727,287	490,212
Singapore	11,000	5,000	4,500	-	4,600
Sri Lanka	118,350	137,020	134,700	101,000	195,600
Taiwan	58,300	-	-	186,550	106,600
Vietnam	1,528,624	1,602,887	1,614,534	2,003,190	1,848,766
<b>Africa</b>					
Madagascar	10,000	-	-	-	-
Reunion (La Reunion)	11,000	10,000	10,000	11,000	-
<b>Australia / Oceania</b>					
Australia	6,220	150,500	293,960	221,600	83,600
Fiji	-	-	-	14,000	-
<b>Total Export</b>	<b>7,753,028</b>	<b>8,117,121</b>	<b>8,186,862</b>	<b>9,041,755</b>	<b>7,821,617</b>
<b>Value(Million Baht)</b>	<b>3,791.7</b>	<b>4,151.4</b>	<b>4,342.0</b>	<b>5,092.7</b>	<b>5,011.3</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>3,240,627</b>	<b>3,577,011</b>	<b>3,990,108</b>	<b>3,883,504</b>	<b>3,791,811</b>
<b>Value (Million Baht)</b>	<b>1,604.1</b>	<b>1,770.6</b>	<b>2,052.4</b>	<b>2,250.2</b>	<b>2,381.8</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>614</b>	<b>659</b>	<b>488</b>	<b>456</b>	<b>258</b>
<b>Value (Million Baht)</b>	<b>9.9</b>	<b>11.4</b>	<b>8.3</b>	<b>7.3</b>	<b>5.5</b>

1 data from 'www.customs.go.th'



Tonnes

2011      2012      2013      2014      2015



# ILMENITE

Tonnes

	2011	2012	2013	2014	2015
<b><u>Export</u></b>					
<b>Asia</b>					
Bangladesh	-	-	-	60	200
China	4,278	970	-	-	-
India	46	-	-	-	-
Indonesia	-	10	-	-	-
Korea,South	5,911	-	-	-	20
Malaysia	930	422	620	21	100
Philippines	336	278	653	66	-
<b>Total Export</b>	<b>11,501</b>	<b>1,680</b>	<b>1,273</b>	<b>147</b>	<b>320</b>
<b>Value (Million Baht)</b>	<b>31.5</b>	<b>6.5</b>	<b>5.0</b>	<b>1.3</b>	<b>2.0</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>753</b>	<b>1,097</b>	<b>978</b>	<b>1,358</b>	<b>1,139</b>
<b>Value (Million Baht)</b>	<b>11.5</b>	<b>34.8</b>	<b>21.2</b>	<b>25.1</b>	<b>18.9</b>

1 data from 'www.customs.go.th'

# I R O N

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Nakhon Sawan	4,400	33,500	56,250	66,650	-
Phetchabun	7,952	20,900	35,500	-	-
Uthai Thani	5,200	-	-	-	-
<b>Northeastern Region</b>					
Loei	350,571	188,333	257,155	185,488	9,683
<b>Central Region</b>					
Cha Choeng Sao	-	3,000	5,000	12,000	-
Chon Buri	60,000	57,500	15,715	250	-
<b>Southern Region</b>					
Nakhon Si Thammarat	61,236	-	20,000	83,530	6,800
<b>Total Production</b>	<b>489,359</b>	<b>303,233</b>	<b>389,620</b>	<b>347,918</b>	<b>16,483</b>
<b>Value (Million Baht)</b>	<b>903.7</b>	<b>751.7</b>	<b>907.3</b>	<b>739.7</b>	<b>30.4</b>
<b><u>Export</u></b>					
<b>Asia</b>					
China	390,580	161,139	296,208	167,011	15,770
Hong Kong	62,500	-	40	-	-
India	-	-	50	-	-
Indonesia	-	-	20	-	-
Japan	-	-	80	80	-
Myanmar	-	-	264	264	-
<b>Total Export</b>	<b>453,080</b>	<b>161,139</b>	<b>296,662</b>	<b>167,355</b>	<b>15,770</b>
<b>Value (Million Baht)</b>	<b>510.7</b>	<b>532.3</b>	<b>597.8</b>	<b>312.7</b>	<b>33.7</b>
<b><u>Import</u><sup>1</sup></b>					
<b>1.Iron Ore</b>	<b>161,427</b>	<b>16,217</b>	<b>5,774</b>	<b>4,422</b>	<b>1,567</b>
<b>Value (Million Baht)</b>	<b>770.2</b>	<b>69.8</b>	<b>41.6</b>	<b>35.2</b>	<b>11.0</b>
<b>2.Iron Pyrite</b>	<b>230</b>	<b>299</b>	<b>278</b>	<b>310</b>	<b>330</b>
<b>Value (Million Baht)</b>	<b>3.1</b>	<b>3.5</b>	<b>3.2</b>	<b>4.7</b>	<b>4.6</b>

1 data from 'www.customs.go.th'

# K A O L I N

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>1. Kaolin (Washed)</b>					
<b>Northern Region</b>					
Lampang	28,033	35,670	18,322	18,540	1,708
<b>Central Region</b>					
Chanthaburi	-	-	315	940	1,125
Ratchaburi	6,200	-	-	-	-
<b>Southern Region</b>					
Narathiwat	6,415	6,975	7,110	6,680	6,252
Ranong	93,884	99,119	93,765	97,461	93,678
<b>Total Production</b>	<b>134,532</b>	<b>141,764</b>	<b>119,512</b>	<b>123,621</b>	<b>102,763</b>
<b>Value (Million Baht)</b>	<b>129.2</b>	<b>136.1</b>	<b>114.7</b>	<b>118.7</b>	<b>98.7</b>
<b>2. Kaolin (Unwashed)</b>					
<b>Northern Region</b>					
Lampang	386,391	464,095	207,833	425,829	333,181
Uthai Thani	147,400	255,080	50,000	-	-
Uttaradit	92,900	21,000	-	13,000	2,400
<b>Central Region</b>					
Chanthaburi	50,335	-	3,100	11,800	25,565
Kanchanaburi	173,000	135,300	241,300	227,000	272,800
Lop Buri	68,300	80,500	82,000	48,000	-
Phetchaburi	29,350	26,700	29,500	17,200	-
Prachin Buri	14,000	18,300	16,600	13,084	21,250
<b>Southern Region</b>					
Surat Thani	-	-	800	-	-
<b>Total Production</b>	<b>961,676</b>	<b>1,000,975</b>	<b>631,133</b>	<b>755,913</b>	<b>655,196</b>
<b>Value (Million Baht)</b>	<b>370.2</b>	<b>385.4</b>	<b>243.0</b>	<b>291.0</b>	<b>252.3</b>

	Tonnes				
	2011	2012	2013	2014	2015
<b>3. Kaolin (Filler)</b>					
<b>Northern Region</b>					
Uttaradit	4,329	300	-	-	-
<b>Total Production</b>	<b>4,329</b>	<b>300</b>	-	-	-
<b>Value (Million Baht)</b>	<b>8.2</b>	<b>0.6</b>	-	-	-
<b><u>Export</u></b>					
<b>1. Washed</b>					
<b>Asia</b>					
Bangladesh	622	765	584	1,606	1,812
China	189	20	566	966	457
India	258	758	939	769	1,005
Indonesia	1,076	1,488	1,372	840	436
Iran	-	-	-	7	36
Korea, South	-	1	27	24	-
Malaysia	2,300	1,790	3,583	3,621	3,546
Myanmar	9	-	-	-	-
Pakistan	40	-	88	40	-
Philippines	398	506	552	648	744
Singapore	-	-	-	-	16
Taiwan	-	-	-	790	-
Vietnam	3,744	4,140	3,778	4,001	4,018
<b>Europe</b>					
U.K	-	20	-	-	-
<b>Total Export</b>	<b>8,636</b>	<b>9,488</b>	<b>11,489</b>	<b>13,312</b>	<b>12,070</b>
<b>Value (Million Baht)</b>	<b>37.0</b>	<b>58.7</b>	<b>53.1</b>	<b>69.8</b>	<b>67.7</b>
<b>2. Unwashed</b>					
<b>Asia</b>					
Vietnam	21	-	-	-	-
<b>Total Export</b>	<b>21</b>	-	-	-	-
<b>Value (Million Baht)</b>	<b>0.1</b>	-	-	-	-
<b>3. Kaolin (Filler)</b>					
<b>Asia</b>					
Vietnam	-	-	400	-	-
<b>Total Export</b>	-	-	<b>400</b>	-	-
<b>Value (Million Baht)</b>	-	-	<b>2.5</b>	-	-

Tonnes

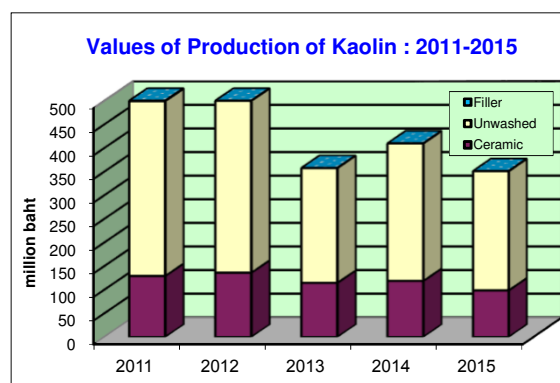
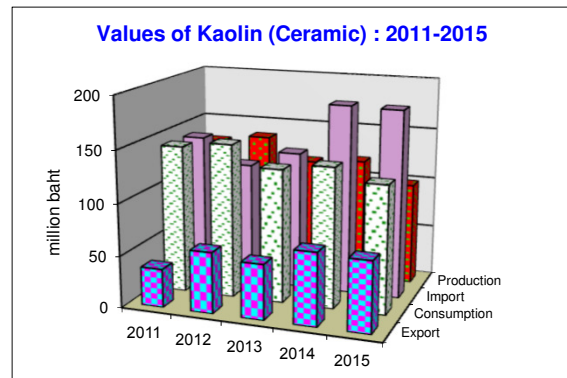
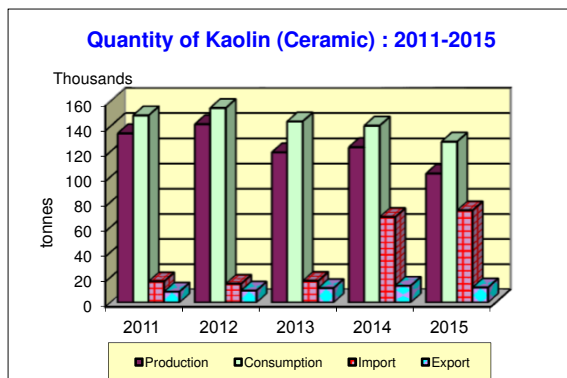
	2011	2012	2013	2014	2015
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**Consumption**

<b>1. Washed</b>	<b>148,741</b>	<b>154,594</b>	<b>143,966</b>	<b>140,619</b>	<b>127,965</b>
<b>Value (Million Baht)</b>	<b>142.8</b>	<b>148.4</b>	<b>128.7</b>	<b>134.9</b>	<b>122.8</b>
<b>2. Unwashed</b>	<b>634,639</b>	<b>962,495</b>	<b>574,731</b>	<b>661,055</b>	<b>532,137</b>
<b>Value (Million Baht)</b>	<b>244.3</b>	<b>370.6</b>	<b>221.3</b>	<b>254.5</b>	<b>204.9</b>
<b>3. Filler</b>	<b>4,029</b>	<b>300</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>7.7</b>	<b>0.6</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Import<sup>1</sup>**

<b>1. Ceramic</b>	<b>16,907</b>	<b>14,965</b>	<b>17,240</b>	<b>68,240</b>	<b>73,587</b>
<b>Value (Million Baht)</b>	<b>141.9</b>	<b>117.9</b>	<b>133.2</b>	<b>182.7</b>	<b>181.5</b>
<b>2. Paper</b>	<b>4,423</b>	<b>4,404</b>	<b>3,166</b>	<b>7,486</b>	<b>3,600</b>
<b>Value (Million Baht)</b>	<b>42.7</b>	<b>41.1</b>	<b>29.6</b>	<b>74.7</b>	<b>39.5</b>
<b>3. Others</b>	<b>65,691</b>	<b>68,868</b>	<b>69,061</b>	<b>66,833</b>	<b>65,872</b>
<b>Value (Million Baht)</b>	<b>543.5</b>	<b>663.2</b>	<b>639.9</b>	<b>697.6</b>	<b>675.7</b>



# L E A D

	Tonnes				
	2011	2012	2013	2014	2015
<b><u>Import (Lead Ore)</u><sup>1</sup></b>					
<b>Total Import</b>	<b>32</b>	<b>2</b>	<b>0**</b>	<b>20</b>	<b>1</b>
<b>Value (Million Baht)</b>	<b>0.7</b>	<b>0.0*</b>	<b>0.0*</b>	<b>0.3</b>	<b>0.0*</b>

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

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

1 data from 'www.customs.go.th'

# L E U C O X E N E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Export</u></b>					
<b>Africa</b>					
Tunisia	-	72	-	-	-
<b>Asia</b>					
China	-	-	-	-	21
India	448	-	-	200	932
Indonesia	299	1	240	278	300
Iran	648	-	-	-	-
Japan	-	21	-	42	84
Korea, South	539	556	462	359	102
Malaysia	357	84	315	484	75
Philippines	383	1,102	420	22	286
Singapore	-	-	24	-	-
Taiwan	63	-	-	-	-
<b>Europe</b>					
Iceland	336	-	-	-	-
Italy	-	-	-	-	26
Turkey	671	561	205	62	389
Ukraine	-	-	63	-	54
<b>North America</b>					
Brazil	-	-	-	-	24
<b>Total Export</b>	<b>3,744</b>	<b>2,397</b>	<b>1,729</b>	<b>1,447</b>	<b>2,293</b>
<b>Value (Million Baht)</b>	<b>65.3</b>	<b>60.3</b>	<b>46.3</b>	<b>35.9</b>	<b>54.4</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>3,389</b>	<b>3,461</b>	<b>2,540</b>	<b>1,700</b>	<b>2,798</b>
<b>Value (Million Baht)</b>	<b>104.6</b>	<b>265.6</b>	<b>128.5</b>	<b>59.0</b>	<b>97.4</b>

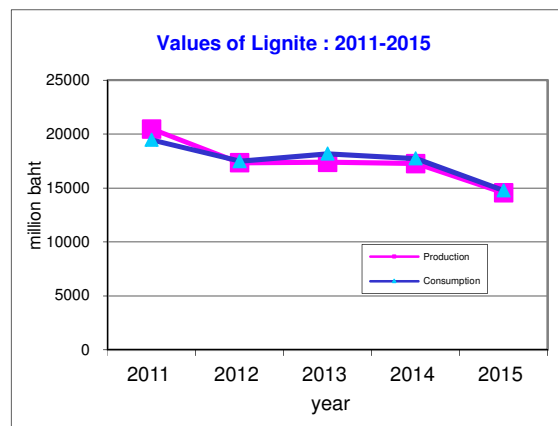
1 data from 'www.customs.go.th'



# LIGNITE

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Lampang	20,881,950	17,778,246	17,884,763	17,828,910	15,150,549
Lamphun	352,960	145,433	3,000	9,640	-
Tak	92,196	145,749	223,000	152,812	-
<b>Total Production</b>	<b>21,327,106</b>	<b>18,069,428</b>	<b>18,110,763</b>	<b>17,991,362</b>	<b>15,150,549</b>
<b>Value (Million Baht)</b>	<b>20,474.0</b>	<b>17,346.7</b>	<b>17,386.3</b>	<b>17,271.7</b>	<b>14,544.5</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>20,256,989</b>	<b>18,198,546</b>	<b>18,926,159</b>	<b>18,457,189</b>	<b>15,369,157</b>
<b>Value (Million Baht)</b>	<b>19,446.7</b>	<b>17,470.6</b>	<b>18,169.1</b>	<b>17,718.9</b>	<b>14,754.4</b>
<b><u>Import<sup>1</sup></u></b>					
<b>Total Import</b>	<b>15</b>	<b>481</b>	<b>4,870</b>	<b>35,502</b>	<b>30,366</b>
<b>Value (Million Baht)</b>	<b>0.3</b>	<b>16.2</b>	<b>24.8</b>	<b>50.5</b>	<b>46.0</b>



1 data from 'www.customs.go.th'

# L I M E S T O N E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>1. Cement Industry</b>					
<b>Northern Region</b>					
Lampang	2,224,080	2,489,710	2,357,795	2,774,218	2,630,045
Nakhon Sawan	-	-	496,789	558,062	699,320
<b>Northeastern Region</b>					
Nakhon Ratchasima	30,926	14,950	14,831	51,053	95,923
<b>Central Region</b>					
Phetchaburi	530,319	399,205	533,075	621,775	653,209
Sara Buri	53,156,082	55,771,160	58,254,579	60,521,082	61,794,681
<b>Southern Region</b>					
Nakhon Si Thammarat	7,066,604	7,159,780	6,929,365	6,414,718	6,478,602
<b>Total Production</b>	<b>63,008,011</b>	<b>65,834,805</b>	<b>68,586,434</b>	<b>70,940,908</b>	<b>72,351,780</b>
<b>Value (Million Baht)</b>	<b>7,561.0</b>	<b>7,900.2</b>	<b>8,230.4</b>	<b>8,512.9</b>	<b>9,819.4</b>
<b>2. Other Industries</b>					
<b>Northern Region</b>					
Lampang	1,625,812	1,593,150	1,464,842	1,142,687	1,427,421
<b>Northeastern Region</b>					
Nakhon Ratchasima	62,365	94,636	176,243	92,907	-
<b>Central Region</b>					
Kanchanaburi	1,900	3,700	-	-	-
Sara Buri	2,594,355	3,357,937	4,462,533	4,646,038	5,296,271
<b>Total Production</b>	<b>4,284,432</b>	<b>5,049,423</b>	<b>6,103,618</b>	<b>5,881,632</b>	<b>6,723,692</b>
<b>Value (Million Baht)</b>	<b>514.1</b>	<b>605.9</b>	<b>732.4</b>	<b>705.8</b>	<b>918.0</b>
<b>3. Dimension Stone</b>					
<b>Central Region</b>					
Sara Buri	27	60	135	60	24
<b>Total Production</b>	<b>27</b>	<b>60</b>	<b>135</b>	<b>60</b>	<b>24</b>
<b>Value (Million Baht)</b>	<b>0.1</b>	<b>0.1</b>	<b>0.3</b>	<b>0.1</b>	<b>0.0*</b>

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

	Tonnes				
	2011	2012	2013	2014	2015
<b>4. Construction</b>					
<b>Northern Region</b>					
Chiang Mai	1,538,608	2,051,300	1,966,600	2,141,495	2,428,100
Chiang Rai	1,677,070	1,981,480	1,516,825	1,571,420	1,707,741
Kamphaeng Phet	932,462	543,321	655,817	768,098	742,597
Lampang	668,317	900,995	908,639	1,183,500	1,469,609
Lamphun	689,283	450,210	1,081,447	886,189	899,940
Nakhon Sawan	2,699,768	2,775,065	2,889,134	2,507,685	2,756,196
Nan	118,412	254,131	182,784	302,050	460,667
Phayao	294,686	872,735	933,897	904,497	965,134
Phetchabun	1,575,687	1,893,858	1,539,250	1,952,090	2,273,161
Phitsanulok	245,946	316,912	274,417	272,373	286,819
Phrae	204,856	244,191	274,646	327,854	449,846
Sukhothai	1,036,475	1,150,233	1,710,214	1,921,731	2,454,544
Tak	348,950	653,220	737,870	832,664	1,256,462
Uthai Thani	284,061	427,766	354,342	179,214	191,092
Uttaradit	169,871	-	-	-	-
<b>Northeastern Region</b>					
Khon Kaen	5,779,595	3,063,236	3,355,908	2,826,484	2,492,399
Loei	2,594,267	2,898,620	2,990,422	3,971,675	4,795,833
Nakhon Ratchasima	2,536,384	2,309,724	2,189,684	2,207,586	2,020,135
Nong Bua Lamphu	1,235,802	1,218,982	1,290,209	900,365	984,872
Udon Thani	200,000	279,100	290,520	427,840	418,128
<b>Central Region</b>					
Cha Choeng Sao	-	-	516	-	-
Chai Nat	50,643	113,220	135,784	137,496	179,797
Chanthaburi	120,659	173,001	171,000	246,140	411,100
Chon Buri	9,457,415	9,079,492	9,927,498	11,339,203	12,414,194
Kanchanaburi	1,745,124	1,331,891	3,979,072	1,751,714	2,099,642
Lop Buri	947,000	695,500	539,787	541,000	734,000
Phetchaburi	1,623,957	1,442,057	1,304,775	1,284,264	1,690,830
Prachin Buri	283,021	327,710	259,910	454,170	662,684
Prachuap Khiri Khan	1,124,612	1,274,998	1,380,002	1,256,700	1,451,884
Ratchaburi	2,890,462	3,729,490	4,342,807	4,213,401	4,874,536
Rayong	476,980	546,496	520,309	538,254	529,469
Sa Kaeo	228,366	503,182	41,946	300,553	318,031
Sara Buri	11,458,877	11,624,816	14,244,290	14,449,942	15,189,241
Suphan Buri	11,556,842	12,444,394	13,386,874	14,381,758	13,720,231

Tonnes

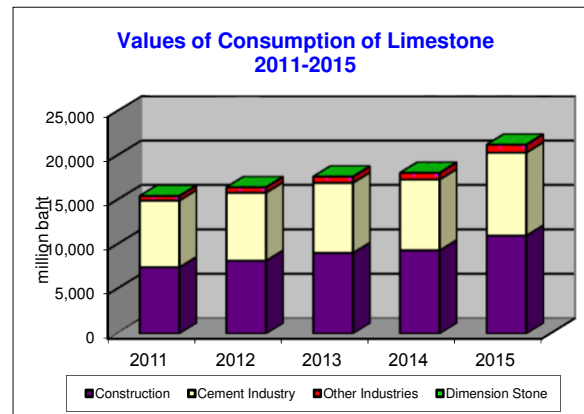
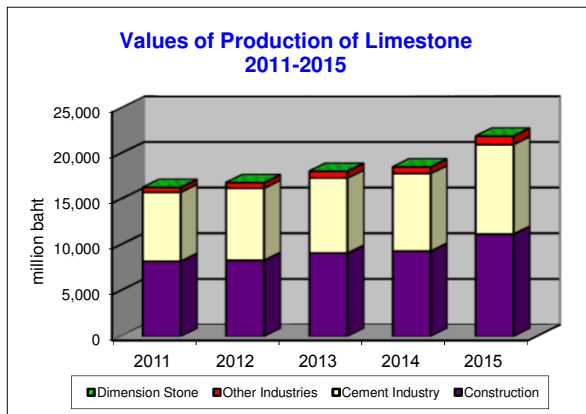
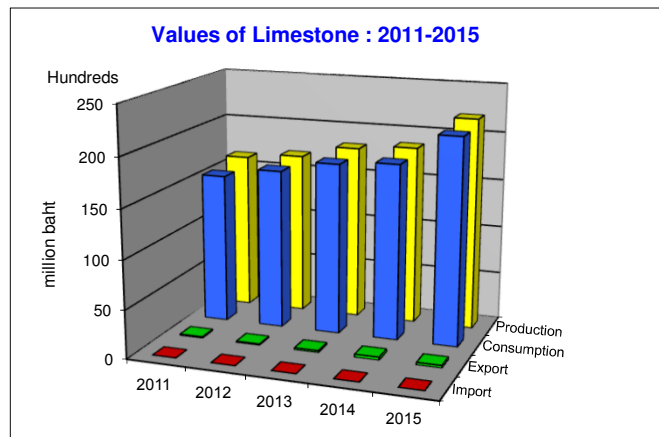
	2011	2012	2013	2014	2015
<b>Southern Region</b>					
Chumphon	866,189	828,599	978,837	1,287,708	1,451,184
Krabi	713,672	631,279	511,807	611,173	567,864
Nakhon Si Thammarat	4,233,315	4,590,647	4,414,295	3,657,949	4,094,317
Phangnga	492,617	529,880	528,998	610,848	567,233
Phatthalung	423,487	-	-	218,608	562,063
Satun	761,762	1,015,576	808,203	887,939	914,084
Songkhla	696,840	440,383	311,224	357,938	331,674
Surat Thani	2,319,260	2,333,327	2,747,333	2,706,632	3,256,902
Trang	397,929	407,544	503,250	689,818	552,648
Yala	580,891	886,714	683,638	819,856	1,037,609
<b>Total Production</b>	<b>78,280,420</b>	<b>79,235,275</b>	<b>86,864,780</b>	<b>88,827,874</b>	<b>96,664,493</b>
<b>Value (Million Baht)</b>	<b>8,219.4</b>	<b>8,319.7</b>	<b>9,120.8</b>	<b>9,326.9</b>	<b>11,184.1</b>
<b>Export</b>					
<b>1. Construction</b>					
<b>Asia</b>					
Bangladesh	22,000	40,900	42,000	293,692	192,910
Cambodia	-	-	-	20	6,000
India	213,183	153,192	283,706	284,367	147,918
Indonesia	-	-	-	18,850	9,100
Malaysia	-	-	-	5,000	-
Singapore	-	87,164	-	-	-
Taiwan	27,700	38,500	84,000	80,800	134,300
<b>Australia / Oceania</b>					
New Caledonia	66,859	-	65,740	140,350	116,125
<b>Europe</b>					
Germany	1	9	-	-	-
Italy	-	-	-	7	-
<b>Total Export</b>	<b>329,743</b>	<b>319,765</b>	<b>475,446</b>	<b>823,086</b>	<b>606,353</b>
<b>Value (Million Baht)</b>	<b>132.1</b>	<b>110.6</b>	<b>185.9</b>	<b>296.6</b>	<b>251.1</b>

	Tonnes				
	2011	2012	2013	2014	2015
<b>2. Other Industries</b>					
<b>Asia</b>					
Brunei	1	-	-	-	-
Cambodia	1,146	834	126	-	20
China	-	22	-	-	-
India	-	-	-	-	150
Indonesia	-	3,123	-	-	-
Jordan	22	21	21	-	-
Korea, South	-	-	-	-	270
Laos	-	440	1,518	309	45
Myanmar	56	33	-	945	74
Vietnam	-	-	42	-	-
<b>Australia / Oceania</b>					
Australia	241	384	309	480	266
<b>Europe</b>					
Denmark	2	-	-	-	-
Germany	11	1	-	-	-
<b>Total Export</b>	<b>1,479</b>	<b>4,859</b>	<b>2,016</b>	<b>1,734</b>	<b>825</b>
<b>Value (Million Baht)</b>	<b>3.4</b>	<b>15.0</b>	<b>7.0</b>	<b>3.6</b>	<b>1.8</b>
<b><u>Consumption</u></b>					
<b>1. Cement Industry</b>	<b>62,530,873</b>	<b>63,783,890</b>	<b>65,731,000</b>	<b>66,468,509</b>	<b>68,188,880</b>
<b>Value (Million Baht)</b>	<b>7,503.7</b>	<b>7,654.1</b>	<b>7,887.7</b>	<b>7,976.2</b>	<b>9,343.5</b>
<b>2. Construction</b>	<b>71,150,930</b>	<b>78,206,771</b>	<b>86,494,047</b>	<b>89,267,612</b>	<b>95,625,701</b>
<b>Value (Million Baht)</b>	<b>7,470.9</b>	<b>8,211.7</b>	<b>9,081.9</b>	<b>9,373.1</b>	<b>11,034.3</b>
<b>3. Dimension Stone</b>	<b>12</b>	<b>60</b>	<b>135</b>	<b>60</b>	<b>24</b>
<b>Value (Million Baht)</b>	<b>0.0*</b>	<b>0.1</b>	<b>0.3</b>	<b>0.1</b>	<b>0.1</b>
<b>4. Other Industries</b>	<b>4,304,560</b>	<b>5,137,747</b>	<b>5,816,898</b>	<b>6,262,694</b>	<b>6,568,305</b>
<b>Value (Million Baht)</b>	<b>516.5</b>	<b>616.5</b>	<b>698.0</b>	<b>751.5</b>	<b>900.4</b>

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

Tonnes

	2011	2012	2013	2014	2015
<b>Import<sup>1</sup></b>					
<b>Total Import</b>	<b>6,842</b>	<b>3,421</b>	<b>3,057</b>	<b>3,046</b>	<b>2,844</b>
<b>Value (Million Baht)</b>	<b>14.6</b>	<b>1.9</b>	<b>3.3</b>	<b>3.9</b>	<b>7.6</b>



1 data from 'www.customs.go.th'

# M A N G A N E S E

	Tonnes				
	2011	2012	2013	2014	2015
<b><u>Production</u> (Metallurgical grade)</b>					
<b>Northern Region</b>					
Chiang Mai	-	-	-	500	4,000
Chiang Rai	398	8,151	14,320	13,830	-
<b>Central Region</b>					
Sa Kaeo	-	-	-	-	5,000
<b>Total Production</b>	<b>398</b>	<b>8,151</b>	<b>14,320</b>	<b>14,330</b>	<b>9,000</b>
<b>Value (Million Baht)</b>	<b>1.2</b>	<b>30.4</b>	<b>73.3</b>	<b>70.5</b>	<b>39.6</b>
<b><u>Export</u> (Metallurgical grade)</b>					
<b>Asia</b>					
Bangladesh	2,860	-	-	-	132,277
China	16,381	12,375	10,640	30,368	12,714
India	-	100	-	-	-
Indonesia	-	300	-	-	-
Jordan	-	50	-	-	-
<b>Total Export</b>	<b>19,241</b>	<b>12,825</b>	<b>10,640</b>	<b>30,368</b>	<b>144,991</b>
<b>Value (Million Baht)</b>	<b>63.0</b>	<b>51.4</b>	<b>31.6</b>	<b>96.1</b>	<b>199.0</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>-</b>	<b>1,118</b>	<b>3,575</b>	<b>2,730</b>	<b>684</b>
<b>Value (Million Baht)</b>	<b>-</b>	<b>4.3</b>	<b>18.2</b>	<b>13.5</b>	<b>2.8</b>
<b><u>Import</u> (Manganese Ore)<sup>1</sup></b>					
<b>Total Import</b>	<b>18,633</b>	<b>24,282</b>	<b>18,017</b>	<b>18,518</b>	<b>18,562</b>
<b>Value (Million Baht)</b>	<b>42.8</b>	<b>52.8</b>	<b>38.3</b>	<b>37.3</b>	<b>41.1</b>

1 data from 'www.customs.go.th'

# MARBLE

Cubic metre

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>1. Dimension Stone</b>					
<b>Northern Region</b>					
Kamphaeng Phet	320	-	-	-	452
Nakhon Sawan	10	10	-	-	-
Sukhothai	1,403	769	450	38	-
Uthai Thani	-	-	1,197	1,437	175
<b>Northeastern Region</b>					
Nakhon Ratchasima	421	668	600	600	700
<b>Central Region</b>					
Lop Buri	10	500	-	-	-
Sara Buri	5,510	5,275	5,920	9,048	10,531
<b>Total Production</b>	<b>7,674</b>	<b>7,222</b>	<b>8,167</b>	<b>11,123</b>	<b>11,858</b>
<b>Value (Million Baht)</b>	<b>28.4</b>	<b>26.7</b>	<b>31.9</b>	<b>43.4</b>	<b>94.2</b>
<b>2. Fragment</b>					
<b>Northern Region</b>					
Kamphaeng Phet	139,353	-	-	18,849	203,678
Lamphun	-	38,503	88,787	-	-
Nakhon Sawan	-	-	-	126,848	205,848
Sukhothai	5,308	14,000	-	-	-
Tak	105,219	-	-	-	-
Uttaradit	99,697	252,144	364,915	493,562	617,657
<b>Northeastern Region</b>					
Nakhon Ratchasima	-	-	29,500	-	-
<b>Central Region</b>					
Lop Buri	200	-	1,000	-	-
Sara Buri	151,786	-	-	-	-
<b>Total Production</b>	<b>501,563</b>	<b>304,647</b>	<b>484,202</b>	<b>639,259</b>	<b>1,027,183</b>
<b>Value (Million Baht)</b>	<b>163.0</b>	<b>99.0</b>	<b>157.4</b>	<b>207.8</b>	<b>333.8</b>



	Cubic metre				
	2011	2012	2013	2014	2015
<b><u>Consumption</u></b>					
<b>1. Dimension Stone</b>	<b>7,701</b>	<b>7,147</b>	<b>7,420</b>	<b>7,338</b>	<b>12,752</b>
<b>Value (Million Baht)</b>	<b>28.5</b>	<b>26.4</b>	<b>28.9</b>	<b>28.6</b>	<b>101.3</b>
<b>2. Fragment</b>	<b>631,741</b>	<b>241,076</b>	<b>509,688</b>	<b>624,357</b>	<b>1,015,826</b>
<b>Value (Million Baht)</b>	<b>205.3</b>	<b>78.3</b>	<b>165.6</b>	<b>202.9</b>	<b>330.1</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>49,532</b>	<b>44,094</b>	<b>37,128</b>	<b>38,279</b>	<b>55,610</b>
<b>Value (Million Baht)</b>	<b>364.0</b>	<b>386.5</b>	<b>348.0</b>	<b>387.6</b>	<b>565.7</b>

1 data from 'www.customs.go.th'

# M A R L

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Central Region</b>					
Sara Buri	65,000	100,000	75,500	1,200	-
<b>Total Production</b>	<b>65,000</b>	<b>100,000</b>	<b>75,500</b>	<b>1,200</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>5.5</b>	<b>8.5</b>	<b>6.4</b>	<b>0.1</b>	<b>-</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>69,000</b>	<b>113,100</b>	<b>13,300</b>	<b>3,000</b>	<b>4,900</b>
<b>Value (Million Baht)</b>	<b>5.9</b>	<b>9.6</b>	<b>1.1</b>	<b>0.3</b>	<b>0.4</b>

# M I C A

	Tonnes				
	2011	2012	2013	2014	2015
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>4,860</b>	<b>4,577</b>	<b>4,504</b>	<b>4,392</b>	<b>5,501</b>
<b>Value (Million Baht)</b>	<b>128.8</b>	<b>140.7</b>	<b>119.6</b>	<b>122.2</b>	<b>167.2</b>

1 data from 'www.customs.go.th'

# M O N A Z I T E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Export</u></b>					
<b>Asia</b>					
China	4,328	-	210	3,150	1,260
Laos	760	-	-	-	-
Malaysia	-	200	-	-	-
<b>Total Export</b>	<b>5,088</b>	<b>200</b>	<b>210</b>	<b>3,150</b>	<b>1,260</b>
<b>Value (Million Baht)</b>	<b>171.6</b>	<b>10.4</b>	<b>9.3</b>	<b>147.1</b>	<b>61.0</b>

# P E R L I T E

	2011	2012	2013	2014	2015
Tonnes					
<hr/>					
<b><u>Production</u></b>					
<b>Central Region</b>					
Lop Buri	26,500	41,400	14,293	54,100	17,200
<b>Total Production</b>	<b>26,500</b>	<b>41,400</b>	<b>14,293</b>	<b>54,100</b>	<b>17,200</b>
<b>Value (Million Baht)</b>	<b>18.7</b>	<b>29.2</b>	<b>10.1</b>	<b>38.2</b>	<b>14.7</b>
 <b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>13,796</b>	<b>12,687</b>	<b>14,293</b>	<b>12,200</b>	<b>23,710</b>
<b>Value (Million Baht)</b>	<b>9.7</b>	<b>7.7</b>	<b>10.1</b>	<b>8.6</b>	<b>18.8</b>

# P H O S P H A T E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Lamphun	3,020	-	-	-	-
<b>Central Region</b>					
Kanchanaburi	-	1,740	-	500	-
Phetchaburi	280	250	350	-	-
<b>Total Production</b>	<b>3,300</b>	<b>1,990</b>	<b>350</b>	<b>500</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>1.4</b>	<b>0.8</b>	<b>0.1</b>	<b>0.2</b>	<b>-</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>344</b>	<b>1,799</b>	<b>264</b>	<b>500</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>0.1</b>	<b>0.7</b>	<b>0.1</b>	<b>0.2</b>	<b>-</b>
<b><u>Import</u><sup>1</sup></b>					
<b>1. Ground</b>	<b>71</b>	<b>-</b>	<b>0**</b>	<b>1</b>	<b>0.1</b>
<b>Value (Million Baht)</b>	<b>0.7</b>	<b>-</b>	<b>0.0*</b>	<b>0.0*</b>	<b>0.0*</b>
<b>2. Unground</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0**</b>
<b>Value (Million Baht)</b>	<b>0.1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.0*</b>

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

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

1 data from 'www.customs.go.th'

# PYROPHYLLITE

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Central Region</b>					
Sara Buri	5,300	35,000	26,820	49,100	45,500
<b>Total Production</b>	<b>5,300</b>	<b>35,000</b>	<b>26,820</b>	<b>49,100</b>	<b>45,500</b>
<b>Value (Million Baht)</b>	<b>1.9</b>	<b>12.3</b>	<b>9.4</b>	<b>19.9</b>	<b>27.3</b>
<b><u>Export</u></b>					
<b>Asia</b>					
China	-	-	200	100	-
Indonesia	5,812	3,856	1,936	480	800
Japan	-	-	40	-	-
Malaysia	52	20	40	-	20
Vietnam	3,300	2,100	3,680	2,180	440
<b>Total Export</b>	<b>9,164</b>	<b>5,976</b>	<b>5,896</b>	<b>2,760</b>	<b>1,260</b>
<b>Value (Million Baht)</b>	<b>25.2</b>	<b>16.3</b>	<b>17.5</b>	<b>9.3</b>	<b>4.4</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>5,300</b>	<b>33,000</b>	<b>26,000</b>	<b>34,900</b>	<b>45,488</b>
<b>Value (Million Baht)</b>	<b>1.9</b>	<b>11.6</b>	<b>9.1</b>	<b>13.6</b>	<b>27.3</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	-	<b>56</b>	<b>42</b>	<b>1</b>	<b>0.1</b>
<b>Value (Million Baht)</b>	-	<b>1.0</b>	<b>0.7</b>	<b>0.5</b>	<b>0.0*</b>

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

1 data from 'www.customs.go.th'

# QUARTZ

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>1. Ground</b>					
<b>Northern Region</b>					
Tak	3,046	3,040	2,938	3,250	3,006
<b>Total Production</b>	<b>3,046</b>	<b>3,040</b>	<b>2,938</b>	<b>3,250</b>	<b>3,006</b>
<b>Value (Million Baht)</b>	<b>2.3</b>	<b>2.3</b>	<b>2.2</b>	<b>2.4</b>	<b>2.3</b>
<b>2. Underground</b>					
<b>Central Region</b>					
Kanchanaburi	116,710	107,700	126,700	88,940	84,980
Prachuap Khiri Khan	1,500	4,500	800	9,400	9,500
<b>Southern Region</b>					
Nakhon Si Thammarat	2,100	-	-	-	-
<b>Total Production</b>	<b>120,310</b>	<b>112,200</b>	<b>127,500</b>	<b>98,340</b>	<b>94,480</b>
<b>Value (Million Baht)</b>	<b>90.2</b>	<b>84.2</b>	<b>95.6</b>	<b>73.8</b>	<b>70.9</b>
<b>3. Quartzite (Industrial Rock)</b>					
<b>Southern Region</b>					
Songkhla	29,220	289,560	263,353	93,241	91,164
<b>Total Production</b>	<b>29,220</b>	<b>289,560</b>	<b>263,353</b>	<b>93,241</b>	<b>91,164</b>
<b>Value (Million Baht)</b>	<b>3.1</b>	<b>30.4</b>	<b>27.7</b>	<b>9.8</b>	<b>10.0</b>
<b><u>Consumption</u></b>					
<b>1. Ground</b>					
<b>Value (Million Baht)</b>	<b>4,706</b>	<b>3,237</b>	<b>2,737</b>	<b>3,093</b>	<b>3,366</b>
	<b>3.5</b>	<b>2.4</b>	<b>2.1</b>	<b>2.3</b>	<b>2.5</b>
<b>2. Underground</b>					
<b>Value (Million Baht)</b>	<b>64,300</b>	<b>47,190</b>	<b>66,560</b>	<b>160,147</b>	<b>70,350</b>
	<b>48.2</b>	<b>35.4</b>	<b>49.9</b>	<b>120.1</b>	<b>52.8</b>
<b>3. Quartzite (Industrial Rock)</b>					
<b>Value (Million Baht)</b>	<b>15,576</b>	<b>221,808</b>	<b>249,985</b>	<b>95,665</b>	<b>98,208</b>
	<b>1.6</b>	<b>23.3</b>	<b>26.2</b>	<b>10.0</b>	<b>11.0</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>3,127</b>	<b>3,082</b>	<b>3,248</b>	<b>5,920</b>	<b>9,978</b>
<b>Value (Million Baht)</b>	<b>14.0</b>	<b>15.6</b>	<b>17.7</b>	<b>39.4</b>	<b>95.2</b>

1 data from 'www.customs.go.th'



# RHYOLITE

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Central Region</b>					
Sara Buri	562,314	794,226	1,244,388	837,314	893,249
<b>Total Production</b>	<b>562,314</b>	<b>794,226</b>	<b>1,244,388</b>	<b>837,314</b>	<b>893,249</b>
<b>Value (Million Baht)</b>	<b>59.0</b>	<b>83.4</b>	<b>130.7</b>	<b>87.9</b>	<b>98.3</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>647,913</b>	<b>609,717</b>	<b>861,707</b>	<b>818,859</b>	<b>869,788</b>
<b>Value (Million Baht)</b>	<b>68.0</b>	<b>64.0</b>	<b>90.5</b>	<b>85.9</b>	<b>96.5</b>

# R O C K S A L T

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northeastern Region</b>					
Nakhon Ratchasima	1,359,493	1,363,539	1,300,156	1,381,067	1,385,911
<b>Total Production</b>	<b>1,359,493</b>	<b>1,363,539</b>	<b>1,300,156</b>	<b>1,381,067</b>	<b>1,385,911</b>
<b>Value (Million Baht)</b>	<b>1,495.4</b>	<b>1,499.9</b>	<b>1,430.2</b>	<b>1,519.2</b>	<b>2,148.6</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>1,351,073</b>	<b>1,344,162</b>	<b>1,312,516</b>	<b>1,372,904</b>	<b>1,397,168</b>
<b>Value (Million Baht)</b>	<b>1,486.2</b>	<b>1,478.6</b>	<b>1,443.8</b>	<b>1,510.2</b>	<b>2,124.5</b>
<b><u>Import<sup>1</sup></u></b>					
<b>Total Import</b>	<b>5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>0.1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

1 data from 'www.customs.go.th'

# R U T I L E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Export</u></b>					
<b>Asia</b>					
China	1,242	10	-	-	-
Iran	48	93	410	-	-
Malaysia	305	-	-	-	-
Philippines	577	-	-	-	-
<b>Europe</b>					
Belgium	-	-	-	-	24
Russia	-	-	-	-	408
Turkey	428	-	-	-	-
Ukraine	115	514	-	194	-
<b>Total Export</b>	<b>2,715</b>	<b>617</b>	<b>410</b>	<b>194</b>	<b>432</b>
<b>Value (Million Baht)</b>	<b>53.2</b>	<b>21.2</b>	<b>14.4</b>	<b>5.6</b>	<b>15.3</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>6,684</b>	<b>5,492</b>	<b>3,991</b>	<b>6,799</b>	<b>5,220</b>
<b>Value (Million Baht)</b>	<b>181.5</b>	<b>460.1</b>	<b>220.3</b>	<b>241.1</b>	<b>169.5</b>

1 data from 'www.customs.go.th'

# S A N D S T O N E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>1. Dimension Stone</b>					
<b>Northeastern Region</b>					
Nakhon Ratchasima	2,883	1,498	2,445	357	4,540
<b>Total Production</b>	<b>2,883</b>	<b>1,498</b>	<b>2,445</b>	<b>357</b>	<b>4,540</b>
<b>Value (Million Baht)</b>	<b>2.0</b>	<b>1.0</b>	<b>1.7</b>	<b>0.2</b>	<b>3.1</b>
<b>2. Industrial Rock</b>					
<b>Northern Region</b>					
Uttaradit	-	-	-	61,835	168,555
<b>Southern Region</b>					
Phangnga	127,450	228,131	189,182	147,516	160,507
Satun	180,720	167,549	191,906	39,727	6,198
<b>Total Production</b>	<b>308,170</b>	<b>395,680</b>	<b>381,089</b>	<b>249,078</b>	<b>335,260</b>
<b>Value (Million Baht)</b>	<b>30.8</b>	<b>39.6</b>	<b>38.1</b>	<b>24.9</b>	<b>35.8</b>
<b><u>Consumption</u></b>					
<b>1. Dimension Stone</b>	<b>2,883</b>	<b>1,498</b>	<b>2,415</b>	<b>357</b>	<b>4,510</b>
<b>Value (Million Baht)</b>	<b>2.0</b>	<b>1.0</b>	<b>1.7</b>	<b>0.2</b>	<b>3.1</b>
<b>2. Industrial Rock</b>	<b>301,811</b>	<b>322,860</b>	<b>316,637</b>	<b>259,635</b>	<b>331,271</b>
<b>Value (Million Baht)</b>	<b>30.2</b>	<b>32.3</b>	<b>31.7</b>	<b>26.0</b>	<b>35.2</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Dimension Stone</b>	<b>473</b>	<b>768</b>	<b>220</b>	<b>823</b>	<b>6,847</b>
<b>Value (Million Baht)</b>	<b>3.6</b>	<b>10.9</b>	<b>2.6</b>	<b>11.6</b>	<b>12.1</b>

1 data from 'www.customs.go.th'

# S E R P E N T I N E

	Tonnes				
	2011	2012	2013	2014	2015
<b><u>Production (Industrial Rock)</u></b>					
<b>Southern Region</b>					
Narathiwat	-	-	-	-	400
<b>Total Production</b>	-	-	-	-	<b>400</b>
<b>Value (Million Baht)</b>	-	-	-	-	<b>0.0*</b>
<b><u>Consumption (Industrial Rock)</u></b>					
<b>Total Consumption</b>	-	-	-	-	<b>400</b>
<b>Value (Million Baht)</b>	-	-	-	-	<b>0.0*</b>

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

# S H A L E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Lampang	-	1,147	3,031	-	2,000
<b>Central Region</b>					
Sara Buri	4,593,446	4,754,237	4,304,409	5,408,521	6,275,143
<b>Total Production</b>	<b>4,593,446</b>	<b>4,755,384</b>	<b>4,307,440</b>	<b>5,408,521</b>	<b>6,277,143</b>
<b>Value (Million Baht)</b>	<b>574.2</b>	<b>594.4</b>	<b>538.4</b>	<b>676.1</b>	<b>893.4</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>4,343,767</b>	<b>4,698,855</b>	<b>4,028,571</b>	<b>5,313,821</b>	<b>5,996,646</b>
<b>Value (Million Baht)</b>	<b>543.0</b>	<b>587.4</b>	<b>503.6</b>	<b>664.2</b>	<b>850.5</b>

# S I L V E R

	2011	2012	2013	2014	2015
Gram					
<hr/>					
<b><u>Production</u></b>					
<b>Northern Region</b>					
Phetchabun	10,075,526	26,193,636	12,703,941	28,495,328	21,047,075
Phichit	9,245,833	5,631,776	19,675,044	2,457,823	-
<b>Northeastern Region</b>					
Loei	134,533	222,022	2,280	92,765	-
<b>Total Production</b>	<b>19,455,892</b>	<b>32,047,434</b>	<b>32,381,264</b>	<b>31,045,916</b>	<b>21,047,075</b>
<b>Value (Million Baht)</b>	<b>661.7</b>	<b>988.5</b>	<b>747.5</b>	<b>618.4</b>	<b>366.0</b>
<b><u>Export</u></b>					
<b>Asia</b>					
Hong Kong	19,456,075	32,047,434	32,381,264	31,045,916	21,047,075
<b>Total Export</b>	<b>19,456,075</b>	<b>32,047,434</b>	<b>32,381,264</b>	<b>31,045,916</b>	<b>21,047,075</b>
<b>Value (Million Baht)</b>	<b>661.7</b>	<b>988.5</b>	<b>747.5</b>	<b>618.4</b>	<b>366.0</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>19</b>	-	<b>12</b>	<b>12</b>	<b>12</b>
<b>Value (Million Baht)</b>	<b>1.7</b>	-	<b>1.2</b>	<b>1.2</b>	<b>1.3</b>

1 data from 'www.customs.go.th'

# S T R U V E R I T E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Export</u></b>					
<b>Asia</b>					
China	642	410	147	87	64
<b>Total Export</b>	<b>642</b>	<b>410</b>	<b>147</b>	<b>87</b>	<b>64</b>
<b>Value (Million Baht)</b>	<b>71.1</b>	<b>39.0</b>	<b>27.1</b>	<b>16.7</b>	<b>12.6</b>



# T A L C

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Uttaradit	2,304	5,856	7,880	8,208	6,768
<b>Total Production</b>	<b>2,304</b>	<b>5,856</b>	<b>7,880</b>	<b>8,208</b>	<b>6,768</b>
<b>Value (Million Baht)</b>	<b>1.4</b>	<b>3.5</b>	<b>4.7</b>	<b>4.9</b>	<b>4.1</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>3,024</b>	<b>5,732</b>	<b>7,465</b>	<b>8,123</b>	<b>6,765</b>
<b>Value (Million Baht)</b>	<b>1.8</b>	<b>3.4</b>	<b>4.5</b>	<b>4.9</b>	<b>4.1</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>126,254</b>	<b>138,694</b>	<b>143,049</b>	<b>137,228</b>	<b>134,397</b>
<b>Value (Million Baht)</b>	<b>1,380.8</b>	<b>1,786.2</b>	<b>1,751.1</b>	<b>1,662.8</b>	<b>1,626.2</b>

1 data from 'www.customs.go.th'

# T A N T A L U M

Tonnes

	2011	2012	2013	2014	2015
<b><u>Export</u></b>					
<b>1. Columbium Pentoxide Powder</b>					
<b>Asia</b>					
China	150	-	-	-	-
<b>Total Export</b>	<b>150</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>15.7</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b><u>Import (Tantalite)<sup>1</sup></u></b>					
<b>Total Import</b>	<b>483</b>	<b>652</b>	<b>42</b>	<b>182</b>	<b>387</b>
<b>Value (Million Baht)</b>	<b>946.8</b>	<b>675.3</b>	<b>77.0</b>	<b>356.2</b>	<b>693.0</b>

1 data from 'www.customs.go.th'

# T I N

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>1. Production of Tin Concentrates by changwat</b>					
<b>Northern Region</b>					
Chiang Mai	228	154	75	100	39
<b>Central Region</b>					
Kanchanaburi	5	13	18	31	11
Phetchaburi	8	-	-	-	-
<b>Southern Region</b>					
Ranong	45	32	39	25	22
<b>Total Production</b>	<b>286</b>	<b>199</b>	<b>132</b>	<b>156</b>	<b>72</b>
<b>Value (Million Baht)</b>	<b>172.0</b>	<b>94.0</b>	<b>65.7</b>	<b>80.0</b>	<b>28.4</b>
<b>2. Production of Tin Concentrates by Mining Methods.</b>					
Open Pitting	241	167	93	131	50
Dulang Washing	45	32	39	25	22
<b>Total Production</b>	<b>286</b>	<b>199</b>	<b>132</b>	<b>156</b>	<b>72</b>
<b>Value (Million Baht)</b>	<b>172.0</b>	<b>94.0</b>	<b>65.7</b>	<b>80.0</b>	<b>28.4</b>
<b>3. Percentage of Tin Production by Mining Methods.</b>					
Open Pitting	84.3	83.9	70.4	84.0	69.3
Dulang Washing	15.7	16.1	29.6	16.0	30.7
<b>4. Production of Primary Tin Metal</b>					
<b>Total Production</b>	<b>23,714</b>	<b>22,797</b>	<b>22,923</b>	<b>16,494</b>	<b>10,615</b>
<b>Value (Million Baht)</b>	<b>19,042.1</b>	<b>15,012.7</b>	<b>15,574.7</b>	<b>11,831.1</b>	<b>5,784.2</b>

	Tonnes				
	2011	2012	2013	2014	2015
<b><u>Export</u></b>					
<b>1. Tin Metal</b>					
<b>Africa</b>					
Egypt	-	-	-	4	-
Guinea	204	-	-	-	-
South Africa	-	125	-	-	-
<b>Asia</b>					
Bangladesh	-	-	20	35	10
China	200	519	715	170	280
Hong Kong	50.0	51.3	84	61	12
India	255	585	175	45	1
Israel	-	-	10	-	-
Japan	10,156	9,524	9,209	5,774	3,609
Korea, South	1,181	2,673	3,318	3,835	1,854
Malaysia	184	140	180	89	1
Pakistan	-	-	6	5	5
Philippines	6	10	117	9	6
Singapore	4,000	134	-	62	23
Taiwan	393	361	607	191	193
Vietnam	-	-	44	172	-
<b>Australia / Oceania</b>					
Australia	498	213	92	138	88
New Zealand	6	-	7	5	-
<b>Europe</b>					
Austria	178	-	-	-	-
Belgium	122	158	168	272	252
Bosnia & Herzegovina	-	-	-	-	1
France	-	120	-	25	-
Germany	1,400	484	158	74	385
Iceland	-	-	-	50	-
Italy	-	50	1,000	125	26
Netherlands	-	1,975	2,400	2,037	346
Russia	-	-	10	-	-
Spain	-	-	-	-	25
Switzerland	1,125	-	-	-	-
Turkey	-	25	-	-	-
U.K.	57	301	227	596	320
<b>North America</b>					
U.S.A.	-	2,180	1,175	115	62
<b>Total Export</b>	<b>20,015</b>	<b>19,628</b>	<b>19,721</b>	<b>13,890</b>	<b>7,499</b>
<b>Value (Million Baht)</b>	<b>16,387.6</b>	<b>13,248.0</b>	<b>13,483.4</b>	<b>9,150.3</b>	<b>4,271.2</b>

	Tonnes				
	2011	2012	2013	2014	2015
<b>2. Tin-Lead Alloy</b>					
<b>Asia</b>					
India	-	-	-	-	0.3
Malaysia	-	-	-	2	4
<b>Europe</b>					
Belgium	37	55	25	-	-
<b>Total Export</b>	<b>37</b>	<b>55</b>	<b>25</b>	<b>2</b>	<b>4</b>
<b>Value (Million Baht)</b>	<b>33.8</b>	<b>30.5</b>	<b>9.8</b>	<b>1.0</b>	<b>2.0</b>
<b>3. Final Slag</b>					
<b>Asia</b>					
China	50	57	37	113	-
<b>Europe</b>					
Germany	-	-	3	-	-
<b>Total Export</b>	<b>50</b>	<b>57</b>	<b>40</b>	<b>113</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>3.7</b>	<b>6.4</b>	<b>8.0</b>	<b>18.5</b>	<b>-</b>
<b>4. Metallic Residue</b>					
<b>Asia</b>					
Japan	-	20	-	-	-
<b>Total Export</b>	<b>-</b>	<b>20</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>-</b>	<b>12.5</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>5. Tin Slag</b>					
<b>Asia</b>					
China	74	-	-	-	-
<b>Total Export</b>	<b>74</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>4.4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>6. Tin Slime</b>					
<b>Asia</b>					
Malaysia	-	-	-	-	0.5
<b>Total Export</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.5</b>
<b>Value (Million Baht)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.7</b>

	Tonnes				
	2011	2012	2013	2014	2015
<b>7. Hard Head</b>					
<b>Africa</b>					
U.A.E	-	86	-	-	-
<b>Asia</b>					
Singapore	-	-	-	13	-
<b>Europe</b>					
Belgium	297	280	45	145	-
<b>Total Export</b>	<b>297</b>	<b>366</b>	<b>45</b>	<b>158</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>138.5</b>	<b>164.5</b>	<b>16.1</b>	<b>53.3</b>	<b>-</b>
<b>8. Tin Dross</b>					
<b>Asia</b>					
Saudi Arabia	22	-	-	-	-
U.A.E.	86	-	-	-	-
<b>Europe</b>					
Belgium	-	39	-	-	-
Germany	-	-	-	-	2
<b>Total Export</b>	<b>108</b>	<b>39</b>	<b>-</b>	<b>-</b>	<b>2</b>
<b>Value (Million Baht)</b>	<b>48.0</b>	<b>13.9</b>	<b>-</b>	<b>-</b>	<b>0.8</b>
<b><u>Consumption</u></b>					
<b>1. Primary Tin Metal</b>	<b>3,321</b>	<b>3,321</b>	<b>3,012</b>	<b>3,257</b>	<b>2,930</b>
<b>Value (Million Baht)</b>	<b>2,648.3</b>	<b>2,176.1</b>	<b>2,044.3</b>	<b>2,313.0</b>	<b>1,613.0</b>
<b>2. Tin-lead Alloy</b>	<b>985</b>	<b>833</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>n.a.</b>	<b>n.a.</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Tin ore</b>	<b>2,716</b>	<b>2,842</b>	<b>648</b>	<b>5,851</b>	<b>5,742</b>
<b>Value (Million Baht)</b>	<b>257.2</b>	<b>397.0</b>	<b>280.4</b>	<b>2,385.5</b>	<b>1,731.6</b>

1 data from 'www.customs.go.th'

# T R A V E R T I N E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Central Region</b>					
Sara Buri	900	900	-	5,103	1,350
<b>Total Production</b>	<b>900</b>	<b>900</b>	<b>-</b>	<b>5,103</b>	<b>1,350</b>
<b>Value (Million Baht)</b>	<b>1.8</b>	<b>1.8</b>	<b>-</b>	<b>10.2</b>	<b>2.7</b>
<b><u>Consumption</u></b>					
<b>Total Consumption</b>	<b>900</b>	<b>900</b>	<b>-</b>	<b>1,103</b>	<b>2,200</b>
<b>Value (Million Baht)</b>	<b>1.8</b>	<b>1.8</b>	<b>-</b>	<b>2.2</b>	<b>4.4</b>
<b><u>Import</u><sup>1</sup></b>					
<b>Total Import</b>	<b>0**</b>	<b>0**</b>	<b>0**</b>	<b>17.0</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>0.1</b>	<b>0.0*</b>	<b>0.0*</b>	<b>0.2</b>	<b>-</b>

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

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

1 data from 'www.customs.go.th'

# TUNGSTEN

Tonnes

	2011	2012	2013	2014	2015
<b><u>1. Wolfram</u></b>					
<b><u>Production</u></b>					
<b>Northern Region</b>					
Phrae	146	-	108	36	-
<b>Central Region</b>					
Kanchanaburi	7	3	5	10	19
Phetchaburi	0.3	-	-	-	-
<b>Total Production</b>	<b>154</b>	<b>3</b>	<b>113</b>	<b>46</b>	<b>19</b>
<b>Value (Million Baht)</b>	<b>15.3</b>	<b>0.2</b>	<b>11.2</b>	<b>4.6</b>	<b>3.5</b>
<b><u>Export</u></b>					
<b>Asia</b>					
China	204	-	60	-	-
<b>Europe</b>					
Virgin Islands	-	-	-	16	-
<b>Total Export</b>	<b>204</b>	<b>-</b>	<b>60</b>	<b>16</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>3.1</b>	<b>-</b>	<b>1.7</b>	<b>1.1</b>	<b>-</b>
<b><u>Import<sup>1</sup></u></b>					
<b>Total Import</b>	<b>39</b>	<b>21</b>	<b>5</b>	<b>3</b>	<b>-</b>
<b>Value (Million Baht)</b>	<b>2.9</b>	<b>1.8</b>	<b>1.3</b>	<b>0.8</b>	<b>-</b>

1 data from 'www.customs.go.th'



	Tonnes				
	2011	2012	2013	2014	2015
<b><u>2. Scheelite</u></b>					
<b><u>Production</u></b>					
<b>Northern Region</b>					
Chiang Mai	138	130	139	127	42
<b>Total Production</b>	<b>138</b>	<b>130</b>	<b>139</b>	<b>127</b>	<b>42</b>
<b>Value (Million Baht)</b>	<b>13.7</b>	<b>12.9</b>	<b>13.8</b>	<b>12.6</b>	<b>5.9</b>
<b><u>Export</u></b>					
<b>Asia</b>					
China	19	-	-	-	-
Hong Kong	-	17	-	-	-
Vietnam	19	21	-	-	-
<b>Europe</b>					
Austria	-	43	71	21	-
<b>North America</b>					
U.S.A.	122	135	102	97	18
<b>Total Export</b>	<b>160</b>	<b>216</b>	<b>173</b>	<b>118</b>	<b>18</b>
<b>Value (Million Baht)</b>	<b>46.5</b>	<b>22.0</b>	<b>17.2</b>	<b>11.8</b>	<b>10.5</b>
<b><u>3. Other Tungsten</u></b>					
<b><u>Import<sup>1</sup></u></b>					
<b>Total Import</b>	<b>0**</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.4</b>
<b>Value (Million Baht)</b>	<b>0.0*</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>0.8</b>

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

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

1 data from 'www.customs.go.th'

# X E N O T I M E

Tonnes

	2011	2012	2013	2014	2015
<b><u>Export</u></b>					
<b>Asia</b>					
China	21	-	-	-	-
<b>Total Export</b>	<b>21</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Value(Million Baht)</b>	<b>1.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b><u>Import<sup>1</sup></u></b>					
<b>Total Import</b>	<b>-</b>	<b>60</b>	<b>-</b>	<b>-</b>	<b>40</b>
<b>Value (Million Baht)</b>	<b>-</b>	<b>0.7</b>	<b>-</b>	<b>-</b>	<b>0.5</b>

1 data from 'www.customs.go.th'

# Z I N C

Tonnes

	2011	2012	2013	2014	2015
<b><u>Production</u></b>					
<b>Northern Region</b>					
Tak	148,391	166,642	172,578	226,893	181,025
<b>Total Production</b>	<b>148,391</b>	<b>166,642</b>	<b>172,578</b>	<b>226,893</b>	<b>181,025</b>
<b>Value (Million Baht)</b>	<b>2,006.3</b>	<b>2,102.8</b>	<b>2,080.2</b>	<b>3,312.5</b>	<b>2,440.8</b>
<b><u>Export</u></b>					
<b>1. Zinc Metal</b>					
<b>Africa</b>					
Niger	-	-	-	76	-
Nigeria	13	35	-	152	149
<b>Asia</b>					
Bangladesh	-	-	-	-	202
Cambodia	51	20	45	25	-
China	-	-	-	-	0.1
India	-	250	133	627	83
Indonesia	7	8	1	28	102
Japan	982	41	-	-	-
Korea, South	-	80	-	-	-
Laos	374	-	-	3	14
Malaysia	2,023	1,271	3	504	280
Myanmar	-	1,342	-	144	72
Singapore	2,407	331	212	1,010	0.2
Saudi Arabia	-	-	-	-	126
Taiwan	-	2	389	-	-
Vietnam	4,678	3,758	303	0.2	2
<b>Europe</b>					
Italy	20	-	-	-	-
<b>Total Export</b>	<b>10,555</b>	<b>7,138</b>	<b>1,086</b>	<b>2,569</b>	<b>1,030</b>
<b>Value (Million Baht)</b>	<b>714.5</b>	<b>441.1</b>	<b>87.7</b>	<b>199.4</b>	<b>69.8</b>

	Tonnes				
	2011	2012	2013	2014	2015
<b>2. Zinc Alloy</b>					
<b>Africa</b>					
Nigeria	62	-	-	-	-
<b>Asia</b>					
Cambodia	0.4	-	-	-	0**
Indonesia	-	-	-	-	193
Japan	21	-	-	-	-
Malaysia	-	41	39	-	-
<b>Australia / Oceania</b>					
Australia	59	55	3	-	-
<b>Total Export</b>	<b>142</b>	<b>96</b>	<b>42</b>	<b>-</b>	<b>193</b>
<b>Value (Million Baht)</b>	<b>10.5</b>	<b>5.2</b>	<b>2.2</b>	<b>-</b>	<b>12.3</b>
<b><u>Consumption</u></b>					
<b>1. Zinc Alloy</b>	<b>36,253</b>	<b>34,735</b>	<b>32,493</b>	<b>29,833</b>	<b>26,791</b>
<b>Value (Million Baht)</b>	<b>2,746.8</b>	<b>2,324.3</b>	<b>2,134.8</b>	<b>2,379.2</b>	<b>2,084.6</b>
<b>2. Zinc Metal</b>	<b>54,410</b>	<b>51,960</b>	<b>33,168</b>	<b>28,638</b>	<b>27,662</b>
<b>Value (Million Baht)</b>	<b>3,802.8</b>	<b>3,266.0</b>	<b>2,039.5</b>	<b>2,079.0</b>	<b>1,947.5</b>
<b><u>Import (Zinc Ore)<sup>1</sup></u></b>					
<b>Total Import</b>	<b>125,818</b>	<b>139,625</b>	<b>119,896</b>	<b>41,747</b>	<b>82,710</b>
<b>Value (Million Baht)</b>	<b>3,273.4</b>	<b>3,090.1</b>	<b>2,451.5</b>	<b>999.0</b>	<b>1,902.7</b>

1 data from 'www.customs.go.th'

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

# Z I R C O N

	Tonnes				
	2011	2012	2013	2014	2015
<b><u>Export</u></b>					
<b>Asia</b>					
China	11,064	4,882	8,681	9,175	6,235
India	-	-	-	1,479	1,596
Japan	-	-	-	-	2
Malaysia	-	-	-	84	-
Taiwan	138	240	-	-	-
Vietnam	-	-	-	-	24
<b>Total Export</b>	<b>11,202</b>	<b>5,122</b>	<b>8,681</b>	<b>10,738</b>	<b>7,857</b>
<b>Value(Million Baht)</b>	<b>277.3</b>	<b>176.9</b>	<b>277.8</b>	<b>273.7</b>	<b>197.8</b>
<b><u>Import (Zirconium Ore)<sup>1</sup></u></b>					
<b>Total Import</b>	<b>46,633</b>	<b>12,334</b>	<b>35,696</b>	<b>51,545</b>	<b>81,932</b>
<b>Value (Million Baht)</b>	<b>1,351.6</b>	<b>615.0</b>	<b>506.8</b>	<b>629.1</b>	<b>958.0</b>

1 data from 'www.customs.go.th'

## NUMBER OF ACTIVE MINES BY KIND OF MINERALS

	2011	2012	2013	2014	2015
Andesite	2	3	3	3	3
Antimony	2	2	-	-	-
Ball clay	7	6	6	5	4
Barite	4	4	4	6	6
Basalt (industrial rock)	29	26	26	32	36
Bentonite	1	1	1	-	-
Calcite	6	6	7	7	7
Cement clay	34	4	9	16	20
Ceramic clay	10	2	2	4	6
Diatomite	1	1	-	-	-
Dolomite	18	22	19	20	21
Feldspar	22	23	22	20	20
Fluorite	4	3	2	2	2
Glass sand	11	9	11	11	11
Gneiss	1	1	1	1	1
Gold	4	4	4	4	4
Granite (dimension stone)	28	23	22	22	22
Granite (industrial rock)	18	17	18	18	20
Graywacke	1	1	1	1	1
Gypsum	49	47	46	44	47
Iron	9	13	14	15	12
Kaolin	34	31	29	27	29
Lignite	8	8	7	6	5
Limestone (cement)	18	15	14	17	17
Limestone (construction)	186	190	193	196	201
Limestone (dimension)	5	4	5	3	3
Limestone (others)	19	19	13	15	16
Manganese	3	3	2	4	3
Marble	25	19	17	17	19
Marl	3	3	3	3	4

## NUMBER OF ACTIVE MINES BY KIND OF MINERALS

	2011	2012	2013	2014	2015
Perlite	2	2	3	3	3
Phosphate	2	1	1	1	1
Pyrophyllite	2	3	3	3	3
Quartz	4	7	7	7	7
Rhyolite (industrial rock)	1	1	1	1	1
Rock salt	4	4	4	3	3
Sand stone (dimension )	7	7	8	9	10
Sand stone (industrial rock)	2	3	4	3	3
Shale	7	7	6	6	6
Talc	1	1	2	2	1
Tin*	5	3	3	3	3
Travertine	3	3	3	2	2
Wolfram	1	1	1	1	1
Zinc	1	1	1	1	1
<b>Total</b>	<b>604</b>	<b>554</b>	<b>548</b>	<b>564</b>	<b>585</b>

\* Including tin-tungsten mines

**NUMBER OF WORKERS EMPLOYED IN MINES**  
**BY KIND OF MINERAL**

	2011	2012	2013	2014	2015
Andesite	33	30	30	30	30
Antimony	13	21	-	-	-
Ball clay	141	283	354	351	344
Barite	68	55	85	131	130
Basalt (industrial rock)	626	554	544	686	710
Bentonite	11	12	12	-	-
Calcite	89	93	109	76	69
Cement clay	244	35	123	340	410
Ceramic clay	60	17	19	47	68
Diatomite	4	4	-	-	-
Dolomite	257	284	259	262	309
Feldspar	330	324	330	288	263
Fluorite	108	95	67	74	35
Glass sand	43	30	37	73	98
Gneiss	7	7	7	7	7
Gold	229	213	383	427	336
Granite (dimension )	318	251	221	224	251
Granite (industrial rock)	310	340	354	500	600
Graywacke	31	29	27	28	28
Gypsum	1,008	1,017	933	865	899
Iron	267	353	407	380	213
Kaolin	380	361	344	326	324
Lignite	1,967	1,954	1,921	1,884	1,560
Limestone (cement)	1,263	1,170	1,114	874	873
Limestone (construction)	3,233	3,399	3,611	3,947	4,113
Limestone (dimension)	42	30	24	15	6
Limestone (others)	316	361	308	351	433
Manganese	24	12	9	41	26
Marble	390	298	295	312	317
Marl	19	16	18	22	27



**NUMBER OF WORKERS EMPLOYED IN MINES  
BY KIND OF MINERAL**

	2011	2012	2013	2014	2015
Perlite	28	31	69	69	73
Phosphate	45	59	60	60	60
Pyrophyllite	24	35	37	31	29
Quartz	61	103	108	110	107
Rhyolite (industrial rock)	43	43	43	43	43
Rock salt	125	128	126	128	124
Sand stone (dimension)	45	42	55	51	53
Sand stone (industrial rock)	25	39	59	56	56
Shale	85	85	84	113	153
Talc	6	8	19	26	9
Tin*	282	269	256	256	234
Travertine	18	19	19	10	8
Wolfram	15	125	76	57	9
Zinc	301	298	256	231	225
Dulang Washer	188	266	246	148	131
<b>Total</b>	<b>13,122</b>	<b>13,198</b>	<b>13,458</b>	<b>13,950</b>	<b>13,793</b>

\* Including workers employed in tin-tungsten mines

## Mineral Production of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Mineral Fuels and Energy</b>										
Lignite	21,327,106	20,474.0	18,069,428	17,346.7	18,110,763	17,386.3	17,991,362	17,271.7	15,150,549	14,544.5
Total		20,474.0		17,346.7		17,386.3		17,271.7		14,544.5
%		34.22		28.32		28.63		26.91		22.94
<b>Iron and Ferro Alloy</b>										
Iron ore	489,359	903.7	303,233	751.7	389,620	907.3	347,918	739.7	16,483	30.4
Manganese (metallurgical grade)	398	1.2	8,151	30.4	14,320	73.3	14,330	70.5	9,000	39.6
Tungsten										
- Scheelite	138	13.7	130	12.9	139	13.8	127	12.6	42	5.9
- Wolfram	154	15.3	3	0.2	113	11.2	46	4.6	19	3.5
Total		933.9		795.2		1,005.6		827.4		79.4
%		1.56		1.30		1.66		1.29		0.13
<b>Base Metals</b>										
Antimony										
- Low grade	172	n.a.	43	n.a.	-	-	-	-	-	-
- Ore	56	1.6	-	-	-	-	-	-	-	-
Copper metal	525	146.4	721	186.5	-	-	229	52.3	-	-
Tin concentrates	286	172.0	199	94.0	132	65.7	156	80.0	72	28.3
Zinc ore	148,391	2,006.3	166,642	2,102.8	172,578	2,080.2	226,893	3,312.5	181,025	2,440.8
Total		2,326.3		2,383.3		2,145.9		3,444.8		2,469.1
%		3.89		3.89		3.53		5.37		3.89

## Mineral Production of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Precious Metals and Precious Stone</b>										
Gold metal (unit : gram)	2,860,229	4,425.4	4,901,850	8,131.2	4,418,889	6,105.7	4,513,594	5,946.4	3,305,225	4,210.4
Silver metal (unit : gram)	19,455,892	661.7	32,046,801	988.4	32,381,264	747.5	31,045,916	618.4	21,047,075	366.0
Total		5,087.1		9,119.7		6,853.2		6,564.8		4,576.4
%		8.51		14.87		11.29		10.23		7.22
<b>Cement Industrial Minerals</b>										
Anhydrite	614,148	304.0	857,172	424.3	1,264,077	648.7	976,818	565.5	876,024	552.6
Cement Clay	8,571,884	771.5	6,007,039	540.6	2,534,097	228.1	4,124,016	371.2	4,782,683	430.4
Gypsum (unground)	10,994,074	5,442.1	11,447,199	5,666.4	12,382,648	6,358.7	12,445,100	7,205.1	11,267,144	7,040.4
Limestone	63,008,011	7,561.0	65,834,804	7,900.2	68,586,434	8,230.4	70,940,908	8,512.9	72,351,780	9,819.4
Marl	65,000	5.5	100,000	8.5	75,500	6.4	1,200	0.1	-	-
Shale	4,593,446	574.2	4,755,384	594.4	4,307,440	538.4	5,408,521	676.1	6,277,143	893.4
Total		14,658.3		15,134.4		16,010.7		17,330.9		18,736.2
%		24.51		24.71		26.37		27.00		29.55
<b>Ceramic Industrial Minerals</b>										
Ball clay	425,048	233.8	447,348	246.0	112,187	61.7	123,082	67.7	81,245	44.7
Ceramic Clay	404,129	222.3	60,327	33.2	77,358	42.6	312,963	172.1	514,044	282.7
Dolomite	2,556,765	894.9	2,608,997	913.1	2,487,135	870.5	2,471,486	865.0	2,302,592	1,018.3
Feldspar										
- Potassium (unground)	139,169	236.6	5,710	9.7	4,858	8.3	14,220	24.2	2,820	4.8
- Sodium (unground)	901,983	631.4	1,095,013	766.5	1,067,798	747.5	1,399,208	979.4	1,329,096	930.4

## Mineral Production of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Ceramic Industrial Minerals</b>										
Glass sand	221,721	77.6	434,094	151.9	876,085	306.6	1,133,906	396.9	1,191,612	838.3
Kaolin										
- Filler	4,329	8.2	300	0.6	-	-	-	-	-	-
- Unwashed	961,676	370.2	1,000,975	385.4	631,133	243.0	755,913	291.0	655,196	252.3
- Washed	134,531	129.2	141,764	136.1	119,512	114.7	123,621	118.7	102,763	98.7
Quartz										
- Ground	3,046	2.3	3,040	2.3	2,938	2.2	3,250	2.4	3,006	2.3
- Unground	120,310	90.2	112,200	84.2	127,500	95.6	98,340	73.8	94,480	70.8
Total		2,896.7		2,729.0		2,492.7		2,991.2		3,543.3
%		4.84		4.46		4.11		4.66		5.59
<b>Dimension Stone</b>										
Gneiss	60	0.2	140	0.6	30	0.1	-	-	-	-
Granite	5,267*	26.9	5,505*	28.1	2,950*	17.4	2,976*	17.6	5,159*	29.8
Limestone	27	0.1	60	0.1	135	0.3	60	0.1	24	0.1
Marble	7,674*	28.4	7,222*	26.7	8,167*	31.9	11,123*	43.4	11,858*	94.2
Sandstone	2,883	2.0	1,498	1.0	2,445	1.7	357	0.2	4,540	3.1
Serpentine	-	-	-	-	-	-	-	-	400	0.0*
Travertine	900	1.8	900	1.8	-	-	5,103	10.2	1,350	2.7
Total		59.4		58.3		51.4		71.5		129.9
%		0.10		0.09		0.08		0.11		0.20

## Mineral Production of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Industrial Rock</b>										
Andesite	945,587	127.7	1,009,690	136.3	1,109,138	149.7	952,515	128.6	873,022	126.7
Basalt	11,318,212	1,527.9	10,712,823	1,446.2	10,873,590	1,467.9	14,132,610	1,907.9	12,859,663	1,848.2
Granite	5,648,459	762.5	6,346,756	856.8	7,068,234	954.2	7,590,612	1,024.7	8,074,501	1,162.3
Graywacke	966,817	101.5	737,621	77.5	861,450	90.5	1,054,821	110.8	983,031	112.5
Limestone	78,280,420	8,219.4	79,235,275	8,319.7	86,864,780	9,120.8	88,827,874	9,326.9	96,664,493	11,184.1
Marble (fragment)	501,563*	163.0	304,647*	99.0	484,202*	157.4	639,259*	207.8	1,027,183*	333.8
Perlite	26,500	18.7	41,400	29.2	14,293	10.1	54,100	38.2	17,200	14.7
Quartzite	29,220	3.1	289,560	30.4	263,353	27.7	93,241	9.8	91,164	10.0
Rhyolite	562,314	59.0	794,226	83.4	1,244,388	130.7	837,314	87.9	893,249	98.3
Sandstone	308,170	30.8	395,680	39.6	381,089	38.1	249,078	24.9	335,260	35.8
Total		11,013.6		11,118.1		12,147.1		12,867.5		14,926.4
%		18.41		18.15		20.00		20.05		23.54
<b>Other Industrial Minerals</b>										
Barite										
- Chemical grade (ground)	2,403	14.1	3,301	19.3	3,889	22.8	4,425	25.9	4,075	23.8
- Drilling mud (ground)	-	-	14,200	55.3	40,693	158.5	48,540	189.1	127,591	496.9
- Unground	65,300	96.9	46,998	69.8	62,855	93.3	81,996	121.8	38,955	57.8
Bentonite	55,220	33.1	141,000	84.6	150	0.1	-	-	-	-
Calcite	786,250	154.9	865,800	170.6	841,746	165.8	991,981	195.4	1,281,765	610.8
Diatomite	38,130	34.3	8,500	7.7	-	-	-	-	-	-

## Mineral Production of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Other Industrial Minerals</b>										
Fluorite (metallurgical grade)	5,093	20.7	9,602	50.8	2,432	14.1	4,590	30.7	15,095	112.4
Limestone	4,284,432	514.1	5,049,423	605.9	6,103,618	732.4	5,881,632	705.8	6,723,692	917.9
Phosphate	3,300	1.4	1,990	0.8	350	0.1	500	0.2	-	-
Pyrophyllite	5,300	1.9	35,000	12.3	26,820	9.4	49,100	19.9	45,500	27.3
Rock salt	1,359,493	1,495.4	1,363,539	1,499.9	1,300,156	1,430.2	1,381,067	1,519.2	1,385,911	2,148.6
Talc (unground)	2,304	1.4	5,856	3.5	7,880	4.7	8,208	4.9	6,768	4.1
Total		2,368.2		2,580.5		2,631.4		2,812.9		4,399.6
%		3.96		4.21		4.33		4.38		6.94
<b>Grand Total</b>		<b>59,817.5</b>		<b>61,265.1</b>		<b>60,724.3</b>		<b>64,182.7</b>		<b>63,404.8</b>

:- n.a. = not available    :- \* = Cubic Meter    :- 0.0\*\* = denoting the amount of less than 0.05 million baht



## Mineral Export of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Base Metals</b>										
Zinc										
- Zinc alloy	142	10.5	96	5.2	42	2.2	-	-	193	12.3
- Zinc metal	10,555	714.5	7,137	441.1	1,086	87.7	2,569	199.4	1,030	69.8
Total		17,630.5		14,232.9		13,754.6		9,585.8		4,565.7
%		60.25		47.34		49.13		38.72		26.18
<b>Precious Metals and Precious Stone</b>										
	-	-	-	-	-	-	-	-	-	-
Garnet	-	-	23	0.1	162	0.7	216	1.1	-	-
Gold metal (unit : gram)	2,860,229	4,425.4	4,901,850	8,131.2	4,418,889	6,105.7	4,513,594	5,946.4	3,305,225	4,210.4
Silver metal (unit : gram)	19,455,892	661.7	32,047,434	988.5	32,381,264	747.5	31,045,916	618.4	21,047,075	366.0
Total		5,087.1		9,119.8		6,853.9		6,565.9		4,576.4
%		17.38		30.33		24.48		26.52		26.25
<b>Light Metals and Rare Earth</b>										
Columbite-tantalite	-	-	-	-	-	-	50	7.1	-	-
Ilmenite	11,501	31.5	1,680	6.5	1,273	5.1	147	1.3	320	2.0
Leucoxene	3,744	65.3	2,397	60.3	1,729	46.3	1,447	35.9	2,293	54.4
Monazite	5,088	171.6	200	10.4	210	9.3	3,150	147.2	1,260	61.0
Rutile	2,715	53.2	617	21.2	410	14.4	194	5.6	432	15.3
Struverite	642	71.1	410	39.0	147	27.1	87	16.7	64	12.6
Xenotime	21	1.9	-	-	-	-	-	-	-	-
Zircon	11,202	277.3	5,122	176.9	8,681	277.8	10,738	273.7	7,857	197.8
Total		671.9		314.3		380.0		487.5		343.1
%		2.30		1.04		1.36		1.97		1.97



## Mineral Export of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b><u>Cement Industrial Minerals</u></b>	-	-	-	-	-	-	-	-	-	-
Anhydrite										
- Unground	704,550	344.0	788,906	401.3	1,171,407	611.4	1,111,151	630.0	1,034,970	674.3
- Ground	120	0.4	300	1.1	-	-	-	-	-	-
Gypsum										
- Ground	2,138	7.9	2,578	10.3	4,106	15.8	3,211	11.2	1,612	6.4
- Unground	7,753,028	3,791.7	8,117,121	4,151.4	8,186,862	4,342.0	9,041,755	5,092.7	7,821,617	5,011.3
Total		4,144.0		4,564.1		4,969.2		5,733.9		5,692.0
%		14.16		15.18		17.75		23.16		32.64
<b><u>Ceramic Industrial Minerals</u></b>										
Ball clay	15,205	68.6	13,591	66.9	19,733	87.7	23,514	100.5	26,461	120.6
Dolomite										
- Ground	89	0.4	165	0.7	3,129	0.9	4,434	1.1	-	-
- Unground	1,181,260	343.8	1,003,160	312.9	866,630	292.5	1,247,850	469.9	1,213,054	469.3
Feldspar										
- Potassium (ground)	72	0.2	-	-	-	-	30	0.1	-	-
- Sodium (ground)	608,297	449.0	717,565	603.0	735,693	596.0	883,072	770.5	770,117	707.9
- Sodium (unground)	8,200	3.6	-	-	-	-	-	-	-	-
Kaolin										
- Filler	-	-	-	-	400	2.5	-	-	-	-
- Unwashed	21	0.1	-	-	-	-	-	-	-	-
- Washed	8,636	37.0	9,488	58.7	11,489	53.1	13,312	69.8	12,070	67.7
Total		902.7		1,042.2		1,032.7		1,411.9		1,365.5
%		3.09		3.47		3.69		5.70		7.83

## Mineral Export of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b><u>Industrial Rock</u></b>										
Granite (industrial rock)	-	-	8,500	4.0	331,474	85.9	505,714	140.8	458,800	111.3
Gravel (industrial rock)	685	2.0	489	1.9	626	2.4	573	2.8	419	2.4
Limestone (industrial rock-construction)	329,743	132.1	319,765	110.6	475,446	185.9	823,086	296.6	606,353	251.1
Total		134.1		116.5		274.2		440.2		364.8
%		0.46		0.39		0.98		1.78		2.09
<b><u>Other Industrial Minerals</u></b>										
Barite										
- Chemical grade (ground)	2,952	24.0	4,091	39.9	5,535	43.3	6,690	52.5	6,745	84.9
- Drilling mud (ground)	-	-	-	-	-	-	1,512	8.5	15,844	68.4
- Unground	-	-	-	-	-	-	40	0.2	2,666	4.0
Fluorite (metallurgical grade)	-	-	26	0.2	-	-	4,875	35.4	22,470	121.8
Limestone (industrial rock-others)	1,479	3.4	4,859	15.0	2,016	7.0	1,734	3.6	825	1.8
Pyrophyllite	9,164	25.2	5,976	16.3	5,896	17.5	2,760	9.3	1,260	4.4
Total		52.6		71.4		81.6		109.5		285.3
%		0.18		0.24		0.29		0.44		1.64
<b>Grand Total</b>		<b>29,261.9</b>		<b>30,066.9</b>		<b>27,994.5</b>		<b>24,756.4</b>		<b>17,436.0</b>

## Mineral Consumption of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Mineral Fuels and Energy</b>										
Lignite	20,256,989	19,446.7	18,198,546	17,470.6	18,926,159	18,169.1	18,457,189	17,718.9	15,369,157	14,754.4
Total		19,446.7		17,470.6		18,169.1		17,718.9		14,754.4
%		36.74		34.83		35.44		33.22		27.06
<b>Iron and Ferro Alloy</b>										
Manganese (metallurgical grade)	-	-	1,118	4.3	3,575	18.2	2,730	13.5	684	2.8
Total		-		4.3		18.2		13.5		2.8
%		-		0.01		0.04		0.03		0.01
<b>Base Metals</b>										
Tin										
- Tin metal	3,321	2,648.3	3,321	2,176.1	3,012	2,044.3	3,257	2,313.0	2,930	1,613.0
- Tin-lead alloy	985	n.a.	833	n.a.	-	-	-	-	-	-
Zinc										
- Zinc alloy	36,253	2,746.8	34,735	2,324.3	32,493	2,134.8	29,833	2,379.2	26,791	2,084.6
- Zinc metal	54,410	3,802.8	51,960	3,266.0	33,168	2,039.5	28,638	2,079.0	27,662	1,947.5
Total		9,197.9		7,766.4		6,218.6		6,771.2		5,645.1
%		17.38		15.49		12.13		12.70		10.35
<b>Cement Industrial Minerals</b>										
Anhydrite	3,240	1.6	25,150	12.4	-	-	142	0.1	-	-
Cement clay	6,525,005	587.3	1,622,039	146.0	3,793,366	341.4	4,452,240	407.9	4,760,412	428.4
Gypsum (unground)	3,240,627	1,604.1	3,577,011	1,770.6	3,990,108	2,052.4	3,883,504	2,250.2	3,791,811	2,381.8

## Mineral Consumption of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b><u>Cement Industrial Minerals</u></b>										
Limestone	62,530,873	7,503.7	63,783,890	7,654.1	65,731,000	7,887.7	66,468,509	7,976.2	68,188,880	9,343.5
Marl	69,000	5.9	113,100	9.6	13,300	1.1	3,000	0.3	4,900	0.4
Shale	4,343,767	543.0	4,698,855	587.4	4,028,571	503.6	5,313,821	664.2	5,996,646	850.5
Total		10,245.6		10,180.1		10,786.2		11,298.9		13,004.6
%		19.35		20.30		21.04		21.18		23.85
<b><u>Ceramic Industrial Minerals</u></b>										
Ball clay	324,283	178.4	227,150	124.9	328,729	180.8	295,379	162.5	261,677	143.9
Ceramic clay	276,466	152.1	67,847	37.3	138,723	76.3	220,093	121.1	373,642	205.5
Dolomite	1,194,362	418.0	970,750	339.8	1,163,580	407.3	1,328,785	465.1	1,525,810	699.4
Feldspar										
- Potassium (unground)	13,935	23.7	2,618	4.5	1,856	3.1	9,950	15.3	14,200	24.1
- Sodium (ground)	165,403	231.6	162,716	227.8	172,043	240.8	212,094	296.9	54,530	76.3
- Sodium (unground)	214,211	150.0	175,272	122.7	100,401	70.3	155,867	109.1	159,779	111.8
Glass sand	196,778	68.9	393,269	137.6	568,904	199.1	1,059,202	370.7	992,137	659.3
Kaolin										
- Filler	4,029	7.7	300	0.6	-	-	-	-	-	-
- Unwashed	634,639	244.3	962,495	370.6	574,731	221.3	661,055	254.5	532,137	204.9
- Washed	148,741	142.8	154,594	148.4	143,966	128.8	140,619	134.9	127,965	122.8
Quartz										
- Ground	4,706	3.5	3,237	2.4	2,737	2.1	3,093	2.3	3,366	2.5
- Unground	64,300	48.2	47,190	35.4	66,560	49.9	160,147	120.1	70,350	52.8
Total		1,669.2		1,552.0		1,579.8		2,052.5		2,303.3
%		3.15		3.09		3.08		3.85		4.22

## Mineral Consumption of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b><u>Dimension Stone</u></b>										
Gneiss	60	0.2	40	0.2	125	0.5	-	-	70	0.3
Granite	6,069*	30.9	5,383*	27.5	4,210*	24.8	3,339*	19.7	4,977*	28.4
Limestone	12	0.0**	60	0.1	135	0.3	60	0.1	24	0.1
Marble	7,701*	28.5	7,147*	26.4	7,420*	28.9	7,338*	28.6	12,752*	101.3
Sand stone	2,883	2.0	1,498	1.0	2,415	1.7	357	0.2	4,510	3.1
Serpentine	-	-	-	-	-	-	-	-	400	0.0*
Travertine	900	1.8	900	1.8	-	-	1,103	2.2	2,200	4.4
Total		63.4		57.0		56.2		50.8		137.6
%		0.12		0.11		0.11		0.10		0.25
<b><u>Industrial Rock</u></b>										
Andesite	799,192	107.9	918,429	123.9	1,018,830	137.5	974,721	131.6	837,262	121.6
Basalt	10,985,713	1,483.1	10,450,773	1,410.9	10,223,704	1,380.2	13,980,299	1,887.3	12,055,712	1,734.7
Granite	5,013,445	676.8	5,293,829	714.7	7,601,333	1,026.2	6,903,192	931.9	7,881,552	1,141.3
Grawacke	934,171	91.1	810,849	85.1	769,942	80.8	1,018,120	106.9	942,630	104.6
Limestone	71,150,930	7,470.9	78,206,771	8,211.7	86,494,047	9,081.9	89,267,612	9,373.1	95,625,701	11,034.3
Marble (fragment)	631,741*	205.3	241,076*	78.3	509,688*	165.6	624,357*	202.9	1,015,826*	330.1
Perlite	13,796	9.7	12,687	7.7	14,293	10.1	12,200	8.6	23,710	18.8
<b><u>Industrial Rock</u></b>										
Quartzite	15,576	1.6	221,808	23.3	249,985	26.2	95,665	10.0	98,208	11.0
Rhyolite	647,913	68.0	609,717	64.0	861,707	90.5	818,859	86.0	869,788	96.5
Sand stone	301,811	30.2	322,860	32.3	316,637	31.7	259,635	26.0	331,271	35.2
Total		10,144.6		10,751.9		12,030.7		12,764.3		14,628.1
%		19.16		21.44		23.47		23.93		26.82

## Mineral Consumption of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Other Industrial Minerals</b>										
Barite										
- Drilling mud (ground)	-	-	13,956	54.4	21,707	84.5	48,540	189.1	88,061	343.0
- Unground	21,229	31.5	-	-	-	-	1,270	1.9	18,050	26.8
Bentonite	40,000	24.0	30,000	18.0	150	0.1	-	-	-	-
Calcite	439,759	86.6	803,377	158.3	839,246	165.3	975,020	192.1	1,355,664	632.4
Diatomite	11,300	10.2	27,060	24.4	-	-	-	-	-	-
Fluorite (metallurgical grade)	2,832	11.5	1,423	5.9	48	0.3	60	0.4	-	-
Limestone	4,304,560	516.5	5,137,747	616.5	5,816,898	698.0	6,262,694	751.5	6,568,305	900.4
Phosphate	344	0.1	1,799	0.7	264	0.1	500	0.2	-	-
Pyrophyllite	5,300	1.9	33,000	11.6	26,000	9.1	34,900	13.6	45,488	27.3
Rock salt	1,351,073	1,486.2	1,344,162	1,478.6	1,312,516	1,443.8	1,372,904	1,510.2	1,397,168	2,124.5
Talc (unground)	3,024	1.8	5,732	3.4	7,465	4.5	8,123	4.9	6,765	4.1
Total		2,170.3		2,371.8		2,405.7		2,663.9		4,058.5
%		4.10		4.73		4.69		4.99		7.44
<b>Grand Total</b>		<b>52,937.7</b>		<b>50,154.1</b>		<b>51,264.5</b>		<b>53,334.0</b>		<b>54,534.4</b>

:- n.a. = not available    :- \* = Cubic Meter    :- 0.0\*\* = denoting the amount of less than 0.05 million baht

## Mineral Import of Thailand 2011 - 2015

Quantity : Tonnes

Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b><u>Mineral Fuels and Energy</u></b>										
Anthracite	210,701	1,407.3	138,064	808.1	101,683	570.0	184,231	833.9	166,002	667.6
Bituminous coal	4,484,690	13,077.7	7,326,828	19,864.9	8,308,880	21,464.0	10,731,867	28,802.4	10,617,077	25,968.2
Coke	108,164	1,667.5	36,019	647.6	39,090	515.7	39,102	504.5	23,462	286.3
Lignite	15	0.3	481	16.2	4,870	24.8	35,502	50.5	30,366	46.0
Peat	9,644	81.7	8,239	69.9	9,182	79.7	10,662	96.7	12,441	105.4
Coal Solid Fuels from Coal	11,523,976	25,973.6	11,104,617	25,297.6	9,559,821	19,086.6	9,931,740	17,664.0	11,083,001	18,241.0
Total		42,208.1		46,704.3		41,740.8		47,952.0		45,314.5
%		71.35		74.25		75.19		75.58		73.11
<b><u>Iron and Ferro Alloy</u></b>										
Chromite ore	2,202	40.4	3,053	56.4	2,739	40.1	2,473	35.0	2,177	27.9
Cobalt ore	-	-	-	-	-	-	-	-	0*	0.0*
Columbite	196	81.0	30	26.7	117	88.5	10	5.5	319	143.1
Iron ore	161,427	770.2	16,217	69.8	5,774	41.6	4,422	35.2	1,567	11.0
Iron Pyrites	230	3.1	299	3.5	278	3.2	310	4.7	330	4.6
Manganese ore	18,633	42.8	24,282	52.8	18,017	38.3	18,518	37.3	18,562	41.1
Molybdenite ore	10,420	1,406.1	8,611	922.2	7,144	426.1	13,594	1,660.1	11,007	755.5
Nickel ore	4	4.2	0.1	0.2	-	-	45	3.6	0.1	0.1
Tungsten										
- Scheelite	-	-	-	-	-	0.0*	-	-	-	-
- Wolfram	39	2.9	21	1.8	5	1.3	3	0.8	-	-
- Other tungsten	-	0.0*	-	-	-	-	-	-	0.4	0.8
Total		2,350.7		1,133.4		639.1		1,782.2		984.1
%		3.98		1.80		1.15		2.81		1.59

## Mineral Import of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b><u>Base Metals</u></b>										
Aluminium ore	32,736	285.0	29,077	289.4	42,327	317.9	40,667	305.7	24,157	251.4
Antimony ore	8,803	263.1	6,949	145.2	8,290	218.6	4,392	145.0	6,134	378.4
Copper	352	4.1	1,735	7.4	6,666	37.3	9,502	56.8	18,818	815.4
Lead ore	32	0.7	2	0.0*	0*	0.0*	20	0.3	1	0.0*
Tin ore	2,716	257.2	2,842	397.0	648	280.4	5,851	2,385.5	5,742	1,731.6
Zinc ore	125,818	3,273.4	139,625	3,090.1	119,896	2,451.5	41,747	999.0	82,710	1,902.7
Total		4,083.5		3,929.1		3,305.7		3,892.3		5,079.5
%		6.90		6.25		5.95		6.14		8.20
<b><u>Precious Metals and Precious Stone</u></b>										
Emery	4,804	52.7	32,712	115.7	7,093	74.3	17,953	173.3	20,363	185.0
Silver ore	19	1.7	-	-	12	1.2	12	1.2	12	1.3
Total		54.4		115.7		75.5		174.5		186.3
%		0.09		0.18		0.14		0.27		0.30
<b><u>Light Metals and Rare Earth</u></b>										
ilmenite ore	73	3.3	197	13.6	78	4.0	198	7.0	99	3.2
Niobium and Vanadium ore	8,075	686.1	13,165	1,602.7	12,810	1,656.3	14,050	1,084.7	13,605	1,100.0
Titanium ore										
- Rutile	6,684	181.5	5,492	460.1	3,991	220.3	6,799	241.1	5,220	169.5
- Leucoxene	3,389	104.6	3,461	265.6	2,540	128.5	1,700	59.0	2,798	97.4
- Ilmenite	680	8.2	900	21.2	900	17.2	1,160	18.1	1,040	15.7
- Other Titanium ore	1,035	67.3	1,044	22.1	1,161	15.0	2,064	25.5	1,704	22.8



## Mineral Import of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b><u>Light Metals and Rare Earth</u></b>										
Thorium ore	20,069	114.8	1	0.1	-	-	-	-	-	-
Tantalite	483	946.8	652	675.3	42	77.0	182	356.2	387	693.0
Xenotime	-	-	60	0.7	-	-	-	-	40	0.5
Zirconium ore	46,633	1,351.6	12,334	615.0	35,696	506.8	51,545	629.1	81,932	958.0
Total		3,464.2		3,676.4		2,625.1		2,420.7		3,060.1
%		5.86		5.85		4.73		3.82		4.94
<b><u>Cement Industrial Minerals</u></b>										
Anhydrite	0*	0.0**	0*	0.0*	19	0.5	-	-	-	-
Gypsum	614	9.9	659	11.4	488	8.3	456	7.3	258	5.5
Limestone	6,842	14.6	3,421	1.9	3,057	3.3	3,046	3.9	2,844	7.6
Total		24.5		13.3		12.1		11.2		13.1
%		0.04		0.02		0.02		0.02		0.02
<b><u>Ceramic Industrial Minerals</u></b>										
Andalusite, Kyannite and Sillimanite	3,555	47.5	2,227	29.8	4,744	53.9	2,726	34.3	2,926	32.7
Attapulgit	412	3.2	250	4.6	20	0.8	276	7.5	186	7.3
Ball Clay	5,523	34.2	11,006	38.7	6,932	29.5	9,710	40.3	8,246	43.0
Dolomite	1,224	12.2	940	10.5	853	9.5	3,137	59.9	1,495	21.6
Feldspar										
- Potassium	33,342	104.6	35,505	115.1	30,395	94.6	36,000	117.6	34,389	116.2
- Sodium	3,772	13.8	2,140	10.4	5,871	20.9	2,807	11.6	1,645	7.0
- Other Feldspar	3,935	22.1	3,900	28.0	5,612	35.9	8,275	53.6	14,403	84.0

## Mineral Import of Thailand 2011 - 2015

Quantity : Tonnes

Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b><u>Ceramic Industrial Minerals</u></b>										
Kaolin										
- Ceramic	16,907	141.9	14,965	117.9	17,240	133.2	68,240	182.7	73,587	181.5
- Paper	4,423	42.7	4,404	41.1	3,166	29.6	7,486	74.7	3,600	39.5
- Others	65,691	543.5	68,868	663.2	69,061	639.9	66,833	697.6	65,872	675.7
Lucite, Nepheline and Nepheline Syenite	1,535	14.5	1,347	13.3	1,464	13.7	1,338	13.7	414	5.9
Mullite	1,671	23.3	1,661	23.6	2,115	29.2	1,898	28.9	1,961	30.1
Quartz	3,127	14.0	3,082	15.6	3,248	17.7	5,920	39.4	9,978	95.2
Silica sand	27,943	120.3	51,698	192.5	110,329	234.9	165,366	299.3	144,273	250.3
Total		1,137.8		1,304.2		1,343.3		1,661.1		1,590.0
%		1.92		2.07		2.42		2.62		2.56
<b><u>Dimension Stone</u></b>										
Ecaussine	3	0.7	1	0.7	2,858	36.6	1,023	9.9	-	-
Marble	49,532	364.0	44,094	386.5	37,128	348.0	38,279	387.6	55,610	565.7
Granite	136,495	482.9	136,741	491.3	132,200	491.8	128,227	525.1	112,695	492.4
Travertine	0*	0.1	0*	0.0*	0*	0.0*	17	0.2	-	-
Sandstone	473	3.6	768	10.9	220	2.6	823	11.6	6,847	12.1
Slate	21	0.3	93	0.6	117	0.8	150	1.0	94	1.3
Total		851.6		890.0		879.8		935.4		1,071.5
%		1.44		1.42		1.59		1.47		1.73

## Mineral Import of Thailand 2011 - 2015

Quantity : Tonnes

Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Industrial Rock</b>										
Basalt	57,240	104.0	39,126	113.2	25,392	163.8	25,937	166.5	25,122	199.5
Flint	45,200	22.9	1,766	12.7	1,345	10.9	30,663	18.9	31,214	13.3
Pumice stone	5,077	58.7	5,275	65.9	5,475	58.4	5,035	51.6	5,005	49.7
Vermiculite, Perlite and Chlorites	3,133	28.8	4,901	39.9	3,859	34.5	4,617	48.3	4,831	43.9
Total		214.4		231.7		267.6		285.3		306.4
%		0.36		0.37		0.48		0.45		0.49
<b>Other Industrial Minerals</b>										
Apatite										
- Ground	2,705	17.8	1,763	7.1	1,292	6.5	1,427	6.2	448	2.7
- Unground	2	0.0*	-	0.0*	-	-	-	-	-	-
Asbestos	81,411	1,111.9	58,037	839.5	53,130	826.9	42,625	684.0	36,513	659.2
Barite	94,650	399.2	104,668	509.8	67,537	285.9	65,236	202.0	98,358	183.6
Bentonite	103,555	505.9	83,377	555.1	103,228	639.3	101,284	665.3	104,569	717.7
Calcite	-	-	12	0.1	60	0.2	41	0.2	-	-
Chalk	62	1.6	53	1.8	67	1.4	81	2.5	96	5.4
Fireclay	1,621	20.6	729	9.8	618	10.6	553	6.6	484	8.2
Fluorite	1,022	18.0	555	12.1	578	12.2	545	12.1	498	8.7
Kieserite	8,062	57.6	11,172	68.0	10,444	59.0	4,848	27.8	10,496	63.0
Mica	4,860	128.8	4,577	140.7	4,504	119.6	4,392	122.2	5,501	167.2
Orpiment	1	0.0*	20	1.0	163	1.0	0.1	0.0*	166.0	1.2

## Mineral Import of Thailand 2011 - 2015

Quantity : Tonnes  
Value : Million Baht

Mineral	2011		2012		2013		2014		2015	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Other Industrial Minerals (Continue)</b>										
Phosphate										
- Ground	71	0.7	-	0.0*	0*	0.0*	1	0.03	0.1	0.0*
- Underground	1	0.1	-	-	-	-	-	-	0*	0.0*
Graphite	1,397	98.2	1,398	113.2	2,121	118.1	3,300	119.7	4,435	113.9
Magnesite	4,429	62.7	4,867	52.6	7,073	92.5	7,146	81.1	3,456	42.5
Steatite	1,451	10.1	2,014	22.4	927	12.0	805	15.2	491	12.2
Pyrophyllite	-	-	56	1.0	42	0.7	1	0.5	0.1	0.0*
Rock salt	5	0.1	-	-	-	-	-	-	-	-
Sulphur	125,722	937.7	102,175	760.4	137,587	685.0	115,426	715.5	122,771	759.3
Talc	126,254	1,380.8	138,694	1,786.2	143,049	1,751.1	137,228	1,662.8	134,397	1,626.2
Witherite	1,149	16.6	1,500	21.6	325	4.3	191	2.6	193	2.7
Total		4,768.4		4,902.4		4,626.3		4,326.3		4,373.7
%		8.06		7.79		8.33		6.82		7.06
<b>Grand Total</b>		<b>59,157.6</b>		<b>62,900.6</b>		<b>55,515.3</b>		<b>63,441.0</b>		<b>61,979.2</b>

:- 0\* denoting the amount of less than 0.1 metric tonnes :- 0.0\* denoting the amount of less than 0.05 million baht

data from 'www.customs.go.th'

## Mineral Royalty of Thailand 2011-2015

*unit: Thousand Baht*

Mineral	2011	2012	2013	2014	2015
Andesite (Industrial rock)	6,663.09	5,903.14	5,178.40	6,013.60	6,864.31
Anhydrite	13,914.01	18,175.13	20,339.39	24,734.44	26,341.59
Antimony	690.71	257.21	265.88	96.82	-
Ball clay	7,656.37	5,518.41	7,493.89	7,733.67	6,548.59
Barite					
- Chemical grade (ground)	258.66	389.95	629.90	505.73	466.67
- Drilling mud (ground)	-	1,090.60	1,939.09	4,221.71	10,326.50
- Unground	2,835.16	4,471.83	6,062.26	6,068.60	4,941.47
Basalt (Industrial rock)	66,577.69	69,492.32	62,089.98	74,171.29	72,145.26
Bentonite	1,200.00	3,120.00	3.60	-	260.40
Calcite	6,673.37	6,874.60	7,102.49	7,920.97	23,180.86
Cement clay	33,232.04	19,520.73	10,609.27	16,138.34	18,613.16
Ceramic clay	10,411.74	9,513.17	2,676.63	5,806.53	8,686.48
Conglomerate (Industrial rock)	345.36	16.80	-	-	-
Copper Ore	4,217.55	4,426.90	0.04	1,315.19	-
Diatomite	203.40	730.62	-	-	-
Dolomite	38,103.36	33,152.83	32,503.50	42,889.31	55,665.70
Dolomitic Marl	-	-	-	-	6.37
Feldspar					
- Potassium (ground)	-	96.00	145.92	192.96	133.44
- Potassium (unground)	1,180.82	189.18	784.49	676.60	967.37
- Sodium (ground)	7,155.24	10,591.08	10,936.02	13,184.47	6,857.79
- Sodium (unground)	17,424.37	22,526.08	20,932.59	26,398.65	32,808.32
Fluorite	2,674.31	6,063.72	8,364.24	18,424.02	16,346.67
Garnet	12.00	-	12.00	-	-
Glass sand	2,555.22	6,630.97	8,866.81	14,539.25	30,455.43

## Mineral Royalty of Thailand 2011-2015

*unit: Thousand Baht*

Mineral	2011	2012	2013	2014	2015
Gneiss (Dimension stone)	16.00	24.00	25.60	224.80	17.60
Gold Ore	419,771.42	817,107.08	521,187.64	485,845.66	333,447.48
Granite					
- Dimension stone	1,131.02	807.59	777.48	970.58	1,083.11
- Industrial rock	30,038.53	30,699.07	45,681.69	41,886.29	49,055.74
Graywacke	3,108.08	3,150.29	3,119.61	3,782.60	4,173.10
Gypsum	216,150.76	231,672.08	255,417.03	302,309.40	297,944.55
Ilmenite	58.42	69.20	63.61	-	-
Iron Ore	31,556.92	16,663.98	24,369.89	24,901.21	789.81
Kaolin					
- Filler	1,001.60	1,164.07	1,269.98	874.76	1,055.49
- Unwashed	12,770.39	15,161.50	9,458.11	10,503.75	8,130.59
- Washed	5,121.76	5,227.77	5,752.76	4,873.44	5,427.58
Lignite	769,432.59	698,853.48	726,748.80	708,759.88	588,546.59
Limestone					
- Dimension stone	2.16	0.96	1.20	-	-
- Industrial rock-construction	307,195.92	370,674.27	387,773.22	399,779.46	457,249.14
- Industrial rock-cement	519,311.47	532,792.66	520,648.24	600,813.37	662,127.06
- Industrial rock-others	21,026.40	25,379.21	30,120.18	36,234.68	40,776.81
Manganese (Metallurgical grade)	-	162.01	1,208.95	720.25	78.77
Marble					
- Dimension stone	1,165.93	1,505.06	1,174.48	1,867.52	2,173.48
- Fragment	5,564.77	4,064.86	6,891.69	7,126.04	10,939.57
Marl	262.14	452.20	348.16	564.16	288.66
Monazite	83.73	50.47	156.49	-	-
Other Stone	-	-	-	321.42	635.64

## Mineral Royalty of Thailand 2011-2015

*unit: Thousand Baht*

Mineral	2011	2012	2013	2014	2015
Perlite (Industrial rock)	474.32	520.86	403.63	390.05	419.70
Phosphate	90.52	36.61	101.62	6.32	4.49
Pyrophyllite	152.74	490.00	424.54	610.61	1,091.71
Quartz	2,873.40	1,913.18	2,352.32	4,862.61	2,221.05
Quartzite	65.42	1,171.30	828.81	401.79	435.41
Rhyolite (Industrial rock)	1,827.48	2,560.81	3,619.17	595.44	1,238.46
Rock salt	56,584.00	59,356.00	58,124.00	61,160.00	85,000.60
Rutile	25.54	-	-	-	-
Sand Stone					
- Dimension stone	78.88	49.71	59.10	7.96	191.45
- Industrial rock	1,265.28	1,438.04	1,573.68	1,455.69	3,127.68
Serpentine (Industrial rock)	-	-	-	-	1.68
Scheelite	1,062.41	1,170.87	1,057.83	777.93	994.40
Shale (Industrial rock-cement)	40,500.82	41,908.04	35,305.14	50,276.73	65,474.54
Silver Ore	66,052.69	98,876.24	74,529.53	61,863.29	36,533.86
Struverite	2,622.15	109.33	1,530.00	542.21	-
Talc	50.69	142.85	186.62	196.99	165.89
Tin	20,529.68	10,389.14	7,679.80	7,746.66	3,100.10
Tin Slag (Ta <sub>2</sub> O <sub>5</sub> <13%)	-	1.74	-	-	-
Tin Slag (Ta <sub>2</sub> O <sub>5</sub> <5%)	166.01	-	-	-	-
Travertine (Dimension)	73.60	106.40	-	182.32	208.83
Wolfram	816.68	3.47	203.75	139.31	60.98
Xenotime	149.98	-	72.72	45.45	0.00
Zinc Metal	33,331.97	42,703.11	32,314.07	54,954.52	48,694.39
Zircon	45.35	-	-	20.49	-
<b>Total</b>	<b>2,797,594.06</b>	<b>3,247,380.79</b>	<b>2,969,497.56</b>	<b>3,149,627.81</b>	<b>3,034,522.31</b>

## Total Values of Mineral of Thailand 2011-2015

Million Baht

	2011	2012	2013	2014	2015
PRODUCTION	59,817.5	61,265.1	60,724.3	64,182.7	63,404.8
CONSUMPTION	52,937.7	50,154.1	51,264.5	53,334.0	54,534.4
IMPORT	59,157.6	62,900.6	55,515.3	63,441.0	61,979.2
EXPORT	29,261.9	30,066.9	27,994.5	24,756.4	17,436.0

