Statistics Report

No. ICC 1/2557

Mineral Statistics of Thailand

2009 - 2013

Statistics Group

Information Technology and Communication Center

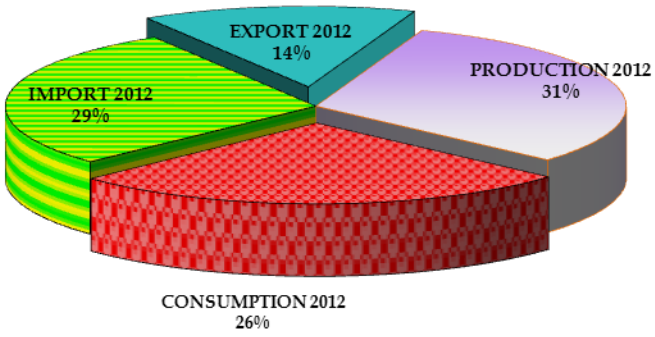
Department of Primary Industries and Mines

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Information Technology and Communication Center

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A N D E S I T E

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Phetchabun	410,259	447,104	307,040	395,904	455,896
Uttaradit	520,396	761,131	638,547	464,435	449,038
Northeastern Region					
Loei	-	1,000	-	-	-
Central Region					
Sara Buri	-	-	-	149,351	204,204
Total Production	**930,655**	**1,209,235**	**945,587**	**1,009,690**	**1,109,138**
Value (Million Baht)	**125.6**	**163.2**	**127.7**	**136.3**	**149.7**
Consumption					
Total Consumption	**765,806**	**1,230,985**	**799,192**	**918,429**	**1,018,830**
Value (Million Baht)	**103.4**	**166.2**	**107.9**	**123.9**	**137.5**

A N H Y D R I T E

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Nakhon Sawan	120	860	3,240	1,000	-
Southern Region					
Nakhon Si Thammarat	-	28,700	49,530	36,000	-
Surat Thani	633,700	506,560	561,378	820,172	1,264,077
Total Production	**633,820**	**536,120**	**614,148**	**857,172**	**1,264,077**
Value (Million Baht)	**350.2**	**279.3**	**304.0**	**424.3**	**648.7**
Export					
1. Ground					
Asia					
Japan	160	200	120	300	-
Total Export	**160**	**200**	**120**	**300**	**-**
Value (Million Baht)	**0.5**	**0.6**	**0.4**	**1.1**	**-**
2. Unground					
Asia					
China	-	4,070	-	-	-
India	-	37,650	45,000	33,950	159,200
Indonesia	-	-	8,000	-	-
Japan	317,720	344,010	383,100	437,785	504,282
Korea, South	169,100	140,160	195,300	231,116	369,550
Malaysia	47,000	57,100	49,650	72,055	128,625
Vietnam	-	18,000	23,500	14,000	9,750
Total Export	**533,820**	**600,990**	**704,550**	**788,906**	**1,171,407**
Value (Million Baht)	**291.2**	**308.7**	**344.0**	**401.3**	**545.6**

Tonnes

	2009	2010	2011	2012	2013
Consumption					
Total Consumption	**-**	**32,634**	**3,240**	**25,150**	**-**
Value (Million Baht)	**-**	**16.5**	**1.6**	**12.4**	**-**
Import[1]					
Total Import	**4**	**25**	**0****	**0****	**19**
Value (Million Baht)	**0.0***	**0.7**	**0.0***	**0.0***	**0.5**

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

	2009	2010	2011	2012	2013
Import[1]					
Total Import	**677,522**	**367,817**	**210,701**	**138,064**	**101,683**
Value (Million Baht)	**2,209.5**	**1,539.6**	**1,407.3**	**808.1**	**570.0**

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

A N T I M O N Y

Tonnes

		2009	2010	2011	2012	2013
Production						
Southern Region						
Satun	Ore	35	738	56	-	-
	Low grade	-	-	172	43	-
Total Production	**Ore**	**35**	**738**	**56**	**-**	**-**
	Low grade	**-**	**-**	**172**	**43**	**-**
Value (Million Baht)	**Ore**	**1.0**	**21.3**	**1.6**	**-**	**-**
	Low grade	**-**	**-**	n.a.	n.a.	**-**
Export						
Ore						
Asia						
China		400	1,310	5,323	5,130	5,523
Hong Kong		98	404	1,884	1,000	-
India		41	-	-	-	27
Korea, South		-	-	100	-	-
Laos		-	34	-	-	-
Malaysia		-	-	24	50	-
Myanmar		-	-	-	-	3
Taiwan		-	-	50	23	-
Vietnam		-	-	-	65	592
Total Export		**539**	**1,748**	**7,381**	**6,268**	**6,145**
Value (Million Baht)		**7.5**	**32.8**	**142.4**	**124.3**	**147.4**
Consumption						
Total Consumption		**-**	**56**	**-**	**-**	**-**
Value (Million Baht)		**-**	**1.2**	**-**	**-**	**-**
Import[1]						
Total Import		**1,496**	**4,356**	**8,803**	**6,949**	**8,290**
Value (Million Baht)		**23.8**	**134.6**	**263.1**	**145.2**	**218.6**

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

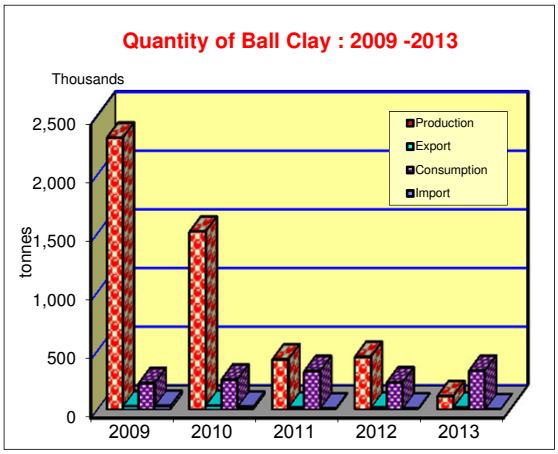
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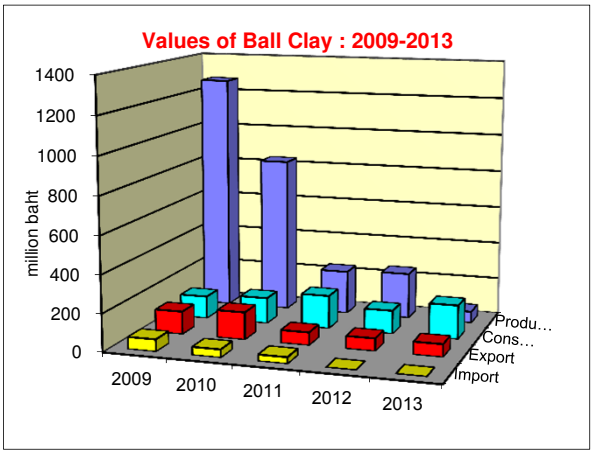
Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Chiang Rai	7,350	34,595	3,600	5,480	46,400
Lampang	2,251,495	1,397,969	346,435	364,055	-
Central Region					
Prachin Buri	260	363	203	2,703	2,500
Sara Buri	52,520	80,840	74,120	74,900	61,882
Southern Region					
Nakhon Si Thammarat	1,000	-	690	210	1,405
Total Production	**2,312,625**	**1,513,767**	**425,048**	**447,348**	**112,187**
Value (Million Baht)	**1,271.9**	**832.6**	**233.8**	**246.0**	**61.7**
Export					
Asia					
Bangladesh	-	1	300	300	1060
China	3,373	1,638	2,400	745	1,630
India	469	989	1,000	1,593	1,541
Indonesia	7,892	12,480	1,614	-	-
Korea, South	700	704	160	-	-
Malaysia	9,525	9,335	5,015	5,234	6,155
Philippines	264	600	128	344	-
Taiwan	264	288	-	-	-
Vietnam	3,256	4,280	4,588	5,375	4,760
Europe					
Germany	-	1	-	-	-
Total Export	**25,743**	**30,316**	**15,205**	**13,591**	**15,146**
Value (Million Baht)	**122.5**	**146.3**	**68.6**	**67.0**	**67.3**

Tonnes

	2009	2010	2011	2012	2013
Consumption					
Total Consumption	**221,472**	**253,292**	**324,283**	**227,150**	**328,729**
Value (Million Baht)	**121.8**	**139.3**	**178.4**	**124.9**	**180.8**
Import[1]					
Total Import	**20,508**	**6,592**	**5,463**	**-**	**-**
Value (Million Baht)	**64.2**	**42.4**	**33.8**	**-**	**-**





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

B A R I T E

Tonnes

	2009	2010	2011	2012	2013
Production					
1. Ground (Chemical grade)					
Northeastern Region					
Loei	1,985	3,865	2,403	3,301	3,889
Total Production	**1,985**	**3,865**	**2,403**	**3,301**	**3,889**
Value (Million Baht)	**11.6**	**22.6**	**14.1**	**19.3**	**22.8**
2. Ground (Drilling Mud grade)					
Northern Region					
Phrae	-	-	-	14,200	40,693
Total Production	**-**	**-**	**-**	**14,200**	**40,693**
Value (Million Baht)	**-**	**-**	**-**	**55.3**	**158.5**
3. Unground					
Northern Region					
Phayao	1,000	1,800	-	-	-
Northeastern Region					
Udon Thani	-	-	45,000	-	-
Southern Region					
Nakhon Si Thammarat	48,910	27,800	20,300	46,998	62,855
Total Production	**49,910**	**29,600**	**65,300**	**46,998**	**62,855**
Value (Million Baht)	**74.1**	**44.0**	**97.0**	**69.8**	**93.3**

Tonnes

	2009	2010	2011	2012	2013
Export					
1. Ground (Chemical grade)					
Africa					
Mauritius	-	-	25	-	-
South Africa	-	-	21	84	11
Asia					
China	-	-	-	-	625
Hong Kong	-	-	40	60	60
India	-	-	-	-	552
Indonesia	-	-	68	245	180
Japan	-	-	935	530	381
Jordan	-	-	20	-	70
Korea, South	-	-	175	272	168
Malaysia	17,008	12	338	670	3,294
Singapore	-	-	105	250	280
Taiwan	-	-	357	281	167
U.A.E.	-	-	-	87	154
Vietnam	-	-	200	557	2,458
Australia / Oceania					
Australia	-	-	624	1,032	1,440
New Zealand	-	-	44	-	117
Europe					
Netherlands	-	-	-	24	-
Total Export	**17,008**	**12**	**2,952**	**4,092**	**9,957**
Value (Million Baht)	**34.4**	**0.1**	**24.0**	**39.9**	**62.0**
Consumption					
1. Ground (Chemical)	**49**	**-**	**-**	**-**	**-**
Value (Million Baht)	**0.3**	**-**	**-**	**-**	**-**
2.Ground (Drilling mud)	**-**	**-**	**-**	**13,956**	**21,707**
Value (Million Baht)	**-**	**-**	**-**	**54.4**	**84.5**
3. Unground	**10,420**	**9,334**	**21,229**	**-**	**-**
Value (Million Baht)	**15.5**	**13.9**	**31.5**	**-**	**-**
Import[1]					
Total Import	**57,452**	**78,862**	**94,650**	**104,668**	**67,537**
Value (Million Baht)	**178.7**	**274.1**	**399.2**	**509.8**	**285.9**

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

B A S A L T

Tonnes

	2009	2010	2011	2012	2013
Production					
Northeastern Region					
Buri Ram	3,712,789	4,322,951	4,310,095	4,160,688	4,036,141
Nakhon Ratchasima	1,299,552	1,373,600	1,286,013	1,318,488	1,359,865
Si Sa Ket	221,414	438,856	133,072	-	-
Surin	3,706,377	4,480,852	3,826,236	3,289,275	2,867,249
Ubon Ratchathani	1,580,624	1,871,741	1,762,796	1,944,372	2,609,835
Central Region					
Trat	1,200	1,200	-	-	500
Total Production	**10,521,955**	**12,489,201**	**11,318,212**	**10,712,823**	**10,873,590**
Value (Million Baht)	**1,420.5**	**1,686.0**	**1,528.0**	**1,446.2**	**1,467.9**
Consumption					
Total Consumption	**10,878,292**	**12,164,953**	**10,985,713**	**10,450,773**	**10,228,376**
Value (Million Baht)	**1,468.6**	**1,642.3**	**1,483.1**	**1,410.9**	**1,380.8**
Import[1]					
Total Import	**17,091**	**268,767**	**57,184**	**39,125**	**25,392**
Value (Million Baht)	**98.8**	**102.3**	**103.5**	**113.2**	**163.8**

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

B E N T O N I T E

Tonnes

	2009	2010	2011	2012	2013
Production					
Central Region					
Lop Buri	110	130	55,220	141,000	150
Total Production	**110**	**130**	**55,220**	**141,000**	**150**
Value (Million Baht)	**0.1**	**0.1**	**33.1**	**84.6**	**0.1**
Consumption					
Total Consumption	**10,000**	**10,000**	**40,000**	**30,000**	**150**
Value (Million Baht)	**6.0**	**6.0**	**24.0**	**18.0**	**0.1**
Import[1]					
Total Import	**42,429**	**65,096**	**103,555**	**83,377**	**103,228**
Value (Million Baht)	**272.5**	**408.2**	**505.9**	**555.1**	**639.3**

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

C A L C I T E

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Lamphun	25	-	-	-	1,000
Uttaradit	3,160	10,330	3,200	-	-
Central Region					
Lop Buri	540,834	683,424	783,050	865,800	840,746
Total Production	**544,019**	**693,754**	**786,250**	**865,800**	**841,746**
Value (Million Baht)	**107.2**	**136.7**	**154.9**	**170.6**	**165.8**
Consumption					
Total Consumption	**477,732**	**578,500**	**439,759**	**803,377**	**839,246**
Value (Million Baht)	**94.1**	**113.9**	**86.6**	**158.3**	**165.3**

C E M E N T C L A Y

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Lampang	74,224	443,966	143,475	-	-
Nakhon Sawan	-	76,525	34,699	-	-
Northeastern Region					
Nakhon Ratchasima	695,256	2,709,729	272,360	58,406	758,081
Central Region					
Lop Buri	236,511	226,014	962,414	-	128,036
Prachin Buri	232,377	1,093,728	431,000	-	-
Ratcha Buri	15,000	-	-	-	-
Sara Buri	2,629,811	2,849,061	4,130,813	5,948,633	1,381,108
Sing Buri	-	10,000	-	-	-
Southern Region					
Krabi	-	-	219,087	-	266,872
Nakhon Si Thammarat	1,011,150	841,800	2,378,036	-	-
Total Production	**4,894,329**	**8,250,823**	**8,571,884**	**6,007,039**	**2,534,097**
Value (Million Baht)	**440.5**	**742.6**	**771.5**	**540.6**	**228.1**
Consumption					
Total Consumption	**4,876,744**	**6,833,705**	**6,525,005**	**1,622,039**	**3,793,366**
Value (Million Baht)	**438.9**	**615.0**	**587.3**	**145.9**	**341.4**

C E R A M I C C L A Y

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Chiang Rai	9,113	12,044	37,173	-	-
Lampang	4,651	9,148	164,076	-	-
Northeastern Region					
Chaiyaphum	111,700	547,000	-	-	15,000
Nakhon Ratchasima	-	-	180,956	-	-
Central Region					
Sara Buri	128,500	188,470	21,924	60,327	62,358
Sing Buri	18,500	172,500	-	-	-
Total Production	**272,464**	**929,162**	**404,129**	**60,327**	**77,358**
Value (Million Baht)	**149.9**	**511.0**	**222.3**	**33.2**	**42.6**
Consumption					
Total Consumption	**226,849**	**233,286**	**276,466**	**67,847**	**138,723**
Value (Million Baht)	**124.8**	**128.3**	**152.1**	**37.3**	**76.3**

0.0* denoting the amount of less than 0.05 million baht

C O P P E R

Tonnes

	2009	2010	2011	2012	2013
Production (metal)					
Northeastern Region					
Loei	0.2	723	525	721	-
Total Production	**0.2**	**723**	**525**	**721**	**-**
Value (Million Baht)	**0.0***	**168.5**	**146.4**	**186.5**	**-**
Export					
1. Metal					
Asia					
Hong Kong	0.2	723	525	721	-
Total Export	**0.2**	**723**	**525**	**721**	**-**
Value (Million Baht)	**0.0***	**168.5**	**146.4**	**186.5**	**-**
2. Dross					
Europe					
Belgium	86	44	-	-	-
Total Export	**86**	**44**	**-**	**-**	**-**
Value (Million Baht)	**14.6**	**14.7**	**-**	**-**	**-**
3. Powder					
Europe					
U.K	-	4	2	-	-
Total Export	**-**	**4**	**2**	**-**	**-**
Value (Million Baht)	**-**	**1.2**	**0.7**	**-**	**-**
Import (ore)[1]					
Total Import	**25**	**374**	**352**	**1,735**	**6,666**
Value (Million Baht)	**0.6**	**4.9**	**4.1**	**7.4**	**37.3**

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

	2009	2010	2011	2012	2013
Production					
Northern Region					
Lampang	5,600	7,100	38,130	8,500	-
Total Production	**5,600**	**7,100**	**38,130**	**8,500**	**-**
Value (Million Baht)	**5.0**	**6.4**	**34.3**	**7.7**	**-**
Consumption					
Total Consumption	**5,730**	**7,625**	**11,300**	**27,060**	**-**
Value (Million Baht)	**5.2**	**6.9**	**10.2**	**24.4**	**-**

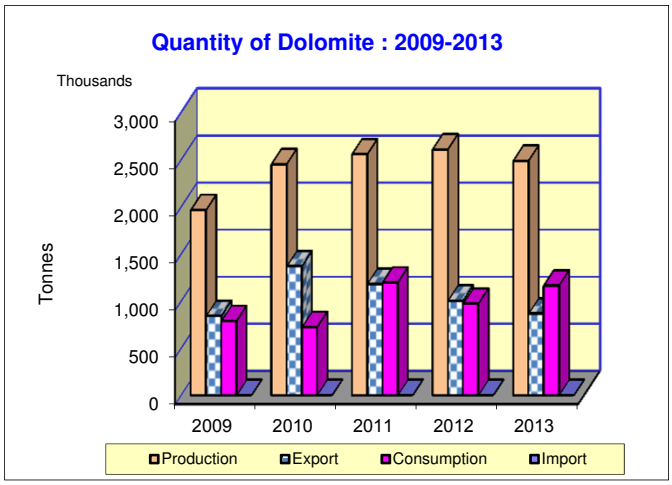
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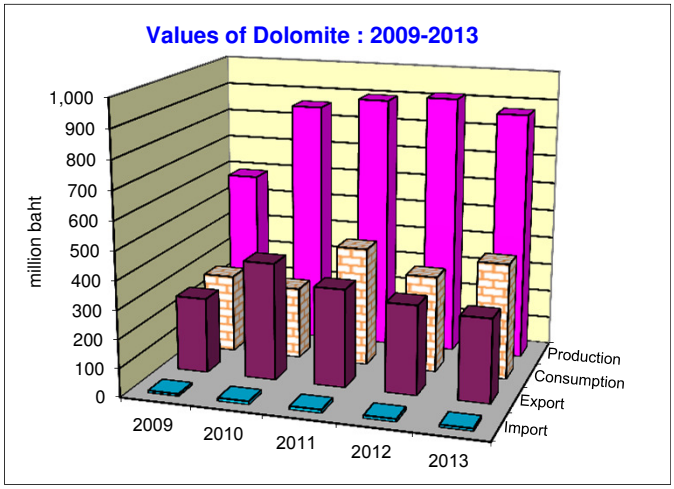
Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Phetchabun	12,200	9,700	9,710	12,680	13,510
Phrae	4,800	4,800	2,380	3,873	4,653
Central Region					
Kanchanaburi	247,050	330,750	588,047	150,400	95,400
Southern Region					
Krabi	88,047	80,000	102,000	120,000	120,000
Phangnga	134,582	121,679	98,593	123,898	141,341
Songkhla	-	-	-	25,724	114,699
Surat Thani	1,414,313	1,838,467	1,752,370	1,938,937	1,613,533
Trang	63,418	66,594	3,665	233,485	384,000
Total Production	**1,964,410**	**2,451,990**	**2,556,765**	**2,608,997**	**2,487,135**
Value (Million Baht)	**587.5**	**858.2**	**894.9**	**913.1**	**870.5**
Export					
1. Ground					
Asia					
Bangladesh	-	6	30	30	616
Japan	80	-	-	-	-
Laos	3	6	-	-	-
Malaysia	78	-	-	-	20
Myanmar	1400	-	-	-	-
Philippines	84	90	59	135	2,453
Total Export	**1,644**	**102**	**89**	**165**	**3,089**
Value (Million Baht)	**1.4**	**0.5**	**0.4**	**0.7**	**0.7**
2. Unground					
Asia					
India	278,500	572,130	452,620	167,110	347,480
Japan	561,580	789,140	728,640	836,050	519,150
Malaysia	128	128	-	-	-
Vietnam	-	6,800	-	-	-
Total Export	**840,208**	**1,368,198**	**1,181,260**	**1,003,160**	**866,630**
Value (Million Baht)	**264.5**	**410.9**	**343.8**	**313.0**	**292.5**

Tonnes

	2009	2010	2011	2012	2013
Consumption					
Total Consumption	**786,973**	**722,216**	**1,194,362**	**970,750**	**1,163,580**
Value (Million Baht)	**275.4**	**252.8**	**418.0**	**339.8**	**407.3**
Import[1]					
Total Import	**595**	**977**	**1,224**	**940**	**853**
Value (Million Baht)	**8.5**	**11.6**	**12.2**	**10.5**	**9.5**





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

F E L D S P A R

Tonnes

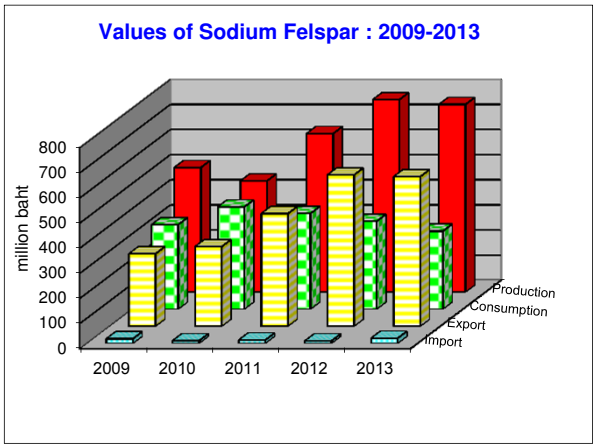
	2009	2010	2011	2012	2013
Production					
1. Potassium Feldspar (Ground)					
Northern Region					
Tak	120	-	-	-	-
Total Production	**120**	**-**	**-**	**-**	**-**
Value (Million Baht)	**0.3**	**-**	**-**	**-**	**-**
2. Potassium Feldspar (Unground)					
Central Region					
Kanchanaburi	9,630	8,920	138,500	2,000	3,000
Prachuap Khiri Khan	142	140	169	210	168
Southern Region					
Nakhon Si Thammarat	-	-	500	3,500	1,690
Total Production	**9,772**	**9,060**	**139,169**	**5,710**	**4,858**
Value (Million Baht)	**16.6**	**15.4**	**236.6**	**9.7**	**8.3**
3. Sodium Feldspar (Ground)					
Northern Region					
Tak	65	120	-	-	-
Total Production	**65**	**120**	**-**	**-**	**-**
Value (Million Bath)	**0.1**	**0.2**	**-**	**-**	**-**
4. Sodium Feldspar (Unground)					
Northern Region					
Tak	162,648	164,047	132,493	204,930	183,098
Central Region					
Kanchanaburi	1,260	920	640	630	500
Ratchaburi	67,300	90,900	98,350	71,253	108,700
Southern Region					
Nakhon Si Thammarat	477,527	376,853	670,500	818,200	775,500
Total Production	**708,735**	**632,720**	**901,983**	**1,095,013**	**1,067,798**
Value (Million Bath)	**496.1**	**442.9**	**631.4**	**766.5**	**747.5**

Tonnes

	2009	2010	2011	2012	2013
Export					
1. Potassium Feldspar (Ground)					
Asia					
Vietnam	-	-	72	-	-
Total Export	**-**	**-**	**72**	**-**	**-**
Value (Million Baht)	**-**	**-**	**0.2**	**-**	**-**
2. Sodium Feldspar (Ground)					
Asia					
Bangladesh	12,400	23,300	24,700	84,240	115,769
China	-	-	-	-	96
Hong Kong	-	62,900	-	-	-
India	6,300	15,800	56,800	57,200	39,386
Indonesia	38,852	60,452	71,189	114,008	113,228
Malaysia	66,998	108,732	186,903	191,130	111,411
Myanmar	-	-	14	-	3,600
U.A.E.	159,600	87,537	243,874	212,770	321,230
Vietnam	40,453	24,461	24,817	37,217	30,973
Europe					
U.K	51,400	-	-	-	-
North America					
Grenada	-	-	-	21,000	-
Total Export	**376,003**	**383,181**	**608,297**	**717,565**	**735,693**
Value (Million Baht)	**289.1**	**317.6**	**449.0**	**603.0**	**596.0**
3. Sodium Feldspar (Unground)					
Asia					
India	-	-	8,200	-	-
Indonesia	-	17,500	-	-	-
Malaysia	-	17,300	-	-	-
U.A.E.	-	31,500	-	-	-
Total Export	**-**	**66,300**	**8,200**	**-**	**-**
Value (Million Baht)	**-**	**50.9**	**3.6**	**-**	**-**

Tonnes

	2009	2010	2011	2012	2013
Consumption					
1. Potassium Feldspar - ground	**52**	**-**	**-**	**-**	**-**
Value (Million Baht)	**0.1**	**-**	**-**	**-**	**-**
2. Potassium Feldspar - Unground	**2,906**	**3,330**	**13,935**	**2,618**	**1,856**
Value (Million Baht)	**4.9**	**5.7**	**23.7**	**4.5**	**3.1**
3. Sodium Feldspar - ground	**170,723**	**171,233**	**165,403**	**162,716**	**172,043**
Value (Million Baht)	**239.0**	**239.7**	**231.6**	**227.8**	**240.8**
4. Sodium Feldspar - Unground	**139,750**	**239,877**	**214,211**	**175,272**	**100,401**
Value (Million Baht)	**97.8**	**167.9**	**150.0**	**122.7**	**70.3**
Import[1]					
1. Potassium Feldspar	**28,996**	**25,928**	**33,342**	**35,505**	**30,395**
Value (Million Baht)	**89.5**	**81.4**	**104.6**	**115.1**	**94.6**
2. Sodium Feldspar	**7,850**	**3,010**	**3,772**	**2,140**	**5,871**
Value (Million Baht)	**19.0**	**11.1**	**13.8**	**10.4**	**20.9**
3. Other Feldspar	**3,590**	**3,891**	**3,935**	**3,900**	**5,612**
Value (Million Baht)	**22.3**	**24.0**	**22.1**	**28.0**	**35.9**



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

F L U O R I T E

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Lamphun	81,670	694	4,393	7,602	2,432
Mae Hong Son	3,775	1,465	-	-	-
Phrae	-	63	700	2,000	-
Central Region					
Kanchanaburi	920	-	-	-	-
Total Production	**86,365**	**2,222**	**5,093**	**9,602**	**2,432**
Value (Million Baht)	**351.1**	**9.0**	**20.7**	**50.8**	**14.1**
Export					
1. Metallurgical Grade					
Asia					
India	-	-	-	6	-
Japan	-	-	-	20	-
Total Export	**-**	**-**	**-**	**26**	**-**
Value (Million Baht)	**-**	**-**	**-**	**0.2**	**-**
2. Metallurgical Grade (Ground)					
Asia					
India	-	-	-	-	760
Taiwan	-	-	-	-	690
Total Export	**-**	**-**	**-**	**-**	**1,450**
Value (Million Baht)	**-**	**-**	**-**	**-**	**7.8**
3. Metallurgical Grade (Unground)					
Asia					
India	-	-	-	-	60
Taiwan	-	-	-	-	910
Europe					
Turkey	-	-	-	-	150
Total Export	**-**	**-**	**-**	**-**	**1,120**
Value (Million Baht)	**-**	**-**	**-**	**-**	**6.0**
Consumption					
Total Consumption	**7,622**	**1,412**	**2,832**	**1,423**	**48**
Value (Million Baht)	**30.9**	**5.7**	**11.5**	**5.9**	**0.3**

Tonnes

	2009	2010	2011	2012	2013
Import[1]					
Total Import	**472**	**508**	**1022**	**555**	**578**
Value (Million Baht)	**10.8**	**9.8**	**18.0**	**12.1**	**12.2**

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

G A R N E T

Tonnes

	2009	2010	2011	2012	2013
Export					
Europe					
Ukraine	-	-	-	23	54
Total Export	**-**	**-**	**-**	**23**	**54**
Value (Million Baht)	**-**	**-**	**-**	**0.1**	**0.2**

G E M S T O N E

Gram

	2009	2010	2011	2012	2013
Production					
Central Region					
Kanchanaburi	570	240	-	-	-
Total Production	**570**	**240**	**-**	**-**	**-**
Value (Million Baht)	**n.a.**	**n.a.**	**-**	**-**	**-**
Consumption					
Total Consumption	**610**	**240**	**-**	**-**	**-**
Value (Million Baht)	**n.a.**	**n.a.**	**-**	**-**	**-**

G L A S S S A N D

Tonnes

	2009	2010	2011	2012	2013
Production					
Central Region					
Cha Choeng Sao	-	-	-	30,000	80,000
Chanthaburi	193,485	108,790	117,470	107,600	96,431
Rayong	162,050	215,195	102,851	295,294	464,850
Trat	2,050	-	-	-	-
Southern Region					
Chumphon	-	-	1,400	1,200	234,804
Total Production	**357,585**	**323,985**	**221,721**	**434,094**	**876,085**
Value (Million Baht)	**125.2**	**113.4**	**77.6**	**151.9**	**306.6**
Consumption					
Total Consumption	**355,133**	**364,215**	**196,778**	**393,269**	**568,904**
Value (Million Baht)	**124.3**	**127.5**	**68.9**	**137.6**	**199.1**
Import[1]					
Total Import	**31,013**	**28,195**	**27,943**	**51,698**	**110,329**
Value (Million Baht)	**106.2**	**94.6**	**120.3**	**192.5**	**234.9**

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

G N E I S S

Tonnes

	2009	2010	2011	2012	2013
Production					
Central Region					
Prachuap Khiri Khan	-	-	60	140	30
Total Production	**-**	**-**	**60**	**140**	**30**
Value (Million Baht)	**-**	**-**	**0.2**	**0.6**	**0.1**
Consumption					
Total Consumption	**46**	**100**	**60**	**40**	**125**
Value (Million Baht)	**0.2**	**0.4**	**0.2**	**0.2**	**0.5**

G O L D

Gram

	2009	2010	2011	2012	2013
Production (Metal)					
Northern Region					
Phetchabun	1,747,780	1,236,195	1,197,788	3,486,881	1,770,621
Phichit	2,776,730	2,117,256	1,072,040	821,347	2,625,470
Northeastern Region					
Loei	341,623	692,116	590,401	586,793	-
Total Production	**4,866,133**	**4,045,567**	**2,860,229**	**4,895,021**	**4,396,091**
Value (Million Baht)	**5,235.0**	**5,023.0**	**4,425.4**	**8,119.9**	**6,076.8**
Export (Metal)					
Asia					
Hong Kong	4,866,133	4,045,567	2,860,229	4,895,021	4,396,091
Total Export	**4,866,133**	**4,045,567**	**2,860,229**	**4,895,021**	**4,396,091**
Value (Million Baht)	**5,235.0**	**5,023.0**	**4,425.4**	**8,119.9**	**6,076.8**

G R A N I T E

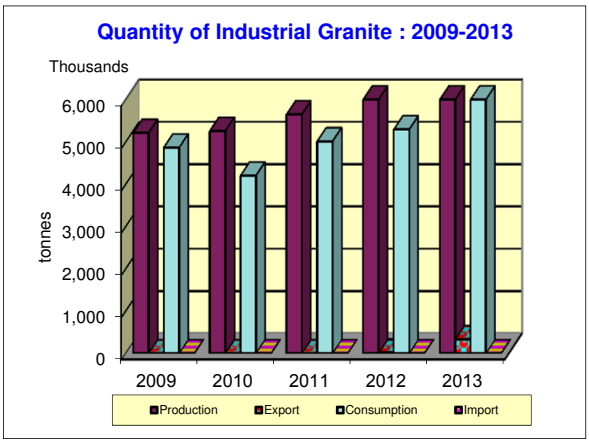
Tonnes

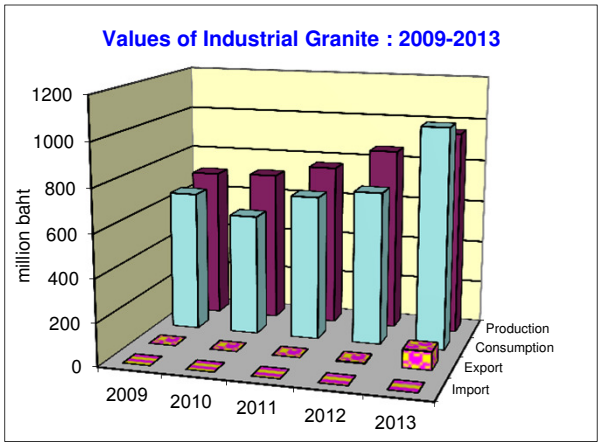
	2009	2010	2011	2012	2013
Production					
1. Dimension Stone*					
Northern Region					
Nakhon Sawan	267	250	189	27	-
Phichit	15	66	50	5	-
Tak	4,780	4,303	4,164	4,000	2,010
Central Region					
Cha Choeng Sao	500	500	450	459	220
Nakhon Nayok	-	40	20	-	-
Prachuap Khiri Khan	790	965	395	1,015	720
Total Production	**6,352**	**6,124**	**5,268**	**5,506**	**2,950**
Value (Million Baht)	**32.4**	**31.2**	**26.9**	**28.1**	**17.4**
2. Industrial Rock					
Northern Region					
Nakhon Sawan	22,000	-	-	-	-
Tak	66,900	116,800	106,200	97,100	138,900
Central Regrion					
Cha Chaeng Sao	88,580	81,640	131,240	108,600	137,950
Chon Buri	2,192,347	2,441,590	2,360,071	2,362,516	2,855,235
Kanchanaburi	4,000	-	-	6,000	-
Prachuap Khiri Khan	49,215	73,389	17,904	19,189	21,059
Rayong	1,427,747	975,723	1,285,870	1,909,800	1,896,900
Southern Region					
Nakhon Si Thammarat	20,000	-	-	-	-
Narathiwat	518,912	637,715	700,555	679,464	853,306
Phangnga	353,914	461,069	502,678	508,958	544,954
Songkhla	466,689	470,683	543,941	655,129	619,930
Total Production	**5,210,304**	**5,258,609**	**5,648,459**	**6,346,756**	**7,068,234**
Value (Million Baht)	**703.4**	**709.9**	**762.5**	**856.8**	**954.2**

* unit : cubic meter

Tonnes

	2009	2010	2011	2012	2013
Export					
Industrial Rock					
Asia					
Singapore	-	-	-	8,500	331,474
Total Export	**-**	**-**	**-**	**8,500**	**331,474**
Value (Million Baht)	**-**	**-**	**-**	**4.0**	**85.9**
Consumption					
1. Dimension Stone *	**6,102**	**6,053**	**6,069**	**5,383**	**4,210**
Value (Million Baht)	**31.1**	**30.9**	**30.9**	**27.5**	**24.8**
2. Industrial Rock	**4,865,279**	**4,199,593**	**5,013,445**	**5,293,829**	**7,601,333**
Value (Million Baht)	**656.8**	**566.9**	**676.8**	**714.7**	**1,026.2**
Import (Dimension Stone)[1]					
Total Import	**137,656**	**138,476**	**136,495**	**136,741**	**132,200**
Value (Million Baht)	**553.7**	**476.9**	**482.9**	**491.3**	**491.8**





* unit : cubic meter

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

G R A V E L

Tonnes

	2009	2010	2011	2012	2013
Export (Industrial Rock)					
Asia					
Malaysia	271	314	349	129	113
Qatar	-	-	-	-	81
Singapore	650	624	336	360	432
Total Export	**921**	**938**	**685**	**489**	**626**
Value (Million Baht)	**3.6**	**2.9**	**2.0**	**1.9**	**2.4**

G R A Y W A C K E

Tonnes

	2009	2010	2011	2012	2013
Production (Industrial Rock)					
Central Region					
Chanthaburi	319,757	416,059	430,267	269,637	328,737
Trat	410,840	552,631	536,550	467,984	532,713
Total Production	**730,597**	**968,690**	**966,817**	**737,621**	**861,450**
Value (Million Baht)	**76.7**	**101.7**	**101.5**	**77.5**	**90.5**
Consumption (Industrial Rock)					
Total Consumption	**765,450**	**914,307**	**934,171**	**810,849**	**769,942**
Value (Million Baht)	**80.4**	**96.0**	**91.1**	**85.1**	**80.8**

G Y P S U M

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Nakhon Sawan	2,080,437	2,192,970	2,500,980	3,272,585	3,392,836
Phichit	246,847	455,466	424,874	22,308	134,400
Southern Region					
Nakhon Si Thammarat	1,695,715	1,602,656	1,730,224	1,946,534	2,217,212
Surat Thani	4,608,798	5,921,537	6,337,996	6,205,772	6,638,200
Total Production	**8,631,797**	**10,172,629**	**10,994,074**	**11,447,199**	**12,382,648**
Value (Million Baht)	**4,788.3**	**5,270.4**	**5,442.1**	**5,666.4**	**6,358.7**
Export					
1. Ground					
Asia					
China	-	-	-	-	22
Japan	1,478	1,340	1,520	2,080	2,340
Myanmar	-	80	408	120	1,392
Taiwan	280	913	210	378	352
Total Export	**1,758**	**2,333**	**2,138**	**2,578**	**4,106**
Value (Million Baht)	**6.3**	**6.9**	**7.9**	**10.3**	**15.8**

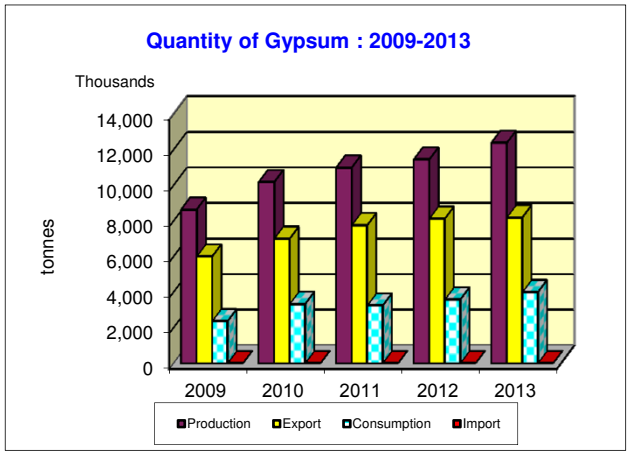
Tonnes

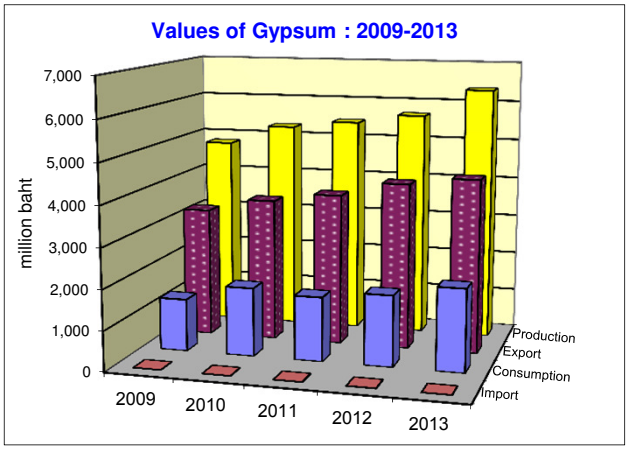
	2009	2010	2011	2012	32012
2. Unground					
Asia					
Bangladesh	481,300	467,148	474,649	642,955	594,375
Brunei	15,650	15,950	15,400	15,700	16,000
Cambodia	36,500	36,000	56,000	86,780	62,800
China	6,020	6,020	11,400	26,028	84,090
India	935,845	1,186,080	1,303,811	865,895	480,905
Indonesia	1,193,925	1,357,778	1,611,060	1,879,282	1,923,604
Japan	706,336	572,500	997,701	929,600	1,082,160
Korea,South	46,500	65,600	92,860	108,500	120,300
Malaysia	967,168	1,070,470	1,165,757	1,284,704	1,344,784
Nepal	-	-	-	-	8,000
Philippines	125,560	282,635	280,896	372,270	412,150
Singapore	4,100	4,500	11,000	5,000	4,500
Sri Lanka	50,470	92,720	118,350	137,020	134,700
Taiwan	99,200	184,100	58,300	-	-
Vietnam	1,295,070	1,587,766	1,528,624	1,602,887	1,614,534
Africa					
Cote d'Ivoire (Ivory Cote)	17,000	-	-	-	-
Madagascar	-	5,000	10,000	-	-
Reunion (La Reunion)	9,400	18,000	11,000	10,000	10,000
Tanzania	-	41,353	-	-	-
Australia / Oceania					
Australia	356	-	6,220	150,500	293,960
Total Export	**5,990,400**	**6,993,620**	**7,753,028**	**8,117,121**	**8,186,862**
Value(Million Baht)	**3,252.3**	**3,572.8**	**3,791.7**	**4,151.4**	**4,331.5**
Consumption					
Total Consumption	**2,363,350**	**3,327,023**	**3,240,627**	**3,577,011**	**3,990,108**
Value (Million Baht)	**1,312.2**	**1,713.8**	**1,604.1**	**1,770.6**	**2,052.4**
Import[1]					
Total Import	**452**	**522**	**614**	**659**	**488**
Value (Million Baht)	**8.5**	**9.0**	**9.9**	**11.4**	**8.3**

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

Tonnes

	2009	2010	2011	2012	2013





I L M E N I T E

Tonnes

	2009	2010	2011	2012	2013
Export					
Asia					
China	210	-	4,278	970	-
India	-	-	46	-	-
Indonesia	-	-	-	10	-
Korea,South	-	-	5,911	-	-
Malaysia	-	-	930	422	620
Philippines	233	210	336	278	653
Total Export	**443**	**210**	**11,501**	**1,680**	**1,273**
Value (Million Baht)	**2.3**	**0.8**	**31.5**	**6.5**	**5.0**
Import[1]					
Total Import	**1,005**	**903**	**753**	**1,097**	**978**
Value (Million Baht)	**11.2**	**9.6**	**11.5**	**34.8**	**21.2**

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

I R O N

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Nakhon Sawan	25,000	-	4,400	33,500	56,250
Phayao	-	74,950	-	-	-
Phetchabun	-	7,000	7,952	20,900	35,500
Uthai Thani	10,430	31,000	5,200	-	-
Northeastern Region					
Loei	309,513	421,297	350,571	188,333	257,155
Central Region					
Cha Choeng Sao	120,456	30,000	-	3,000	5,000
Chon Buri	-	40,500	60,000	57,500	15,715
Lop Buri	123,000	101,000	-	-	-
Southern Region					
Nakhon Si Thammarat	28,000	271,190	61,236	-	20,000
Total Production	**616,399**	**976,937**	**489,359**	**303,233**	**389,620**
Value (Million Baht)	**756.0**	**1,360.0**	**903.8**	**751.7**	**907.3**
Export					
Asia					
China	200,150	321,950	390,580	161,139	296,208
Hong Kong	-	159,065	62,500	-	40
India	-	-	-	-	50
Indonesia	-	-	-	-	20
Japan	-	-	-	-	80
Myanmar	-	-	-	-	264
Singapore	-	20	-	-	-
Total Export	**200,150**	**481,035**	**453,080**	**161,139**	**296,662**
Value (Million Baht)	**306.4**	**452.3**	**510.7**	**532.3**	**597.8**
Consumption					
Total Consumption	**96,500**	**-**	**-**	**-**	**-**
Value (Million Baht)	**120.1**	**-**	**-**	**-**	**-**
Import[1]					
1.Iron Ore	**192,038**	**457,508**	**161,427**	**16,217**	**5,774**
Value (Million Baht)	**509.9**	**1,689.8**	**770.2**	**69.8**	**41.6**
2.Iron Pyrite	**189**	**314**	**230**	**299**	**278**
Value (Million Baht)	**3.4**	**4.2**	**3.1**	**3.5**	**3.2**

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

K A O L I N

Tonnes

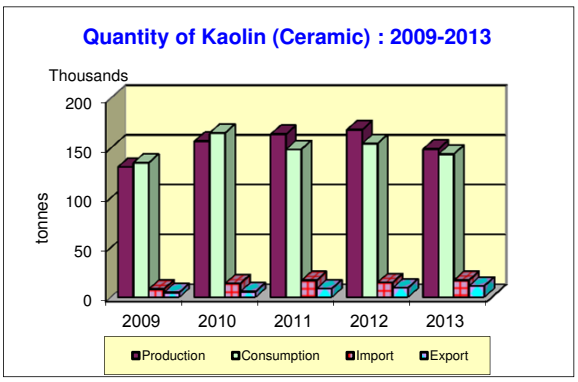
	2009	2010	2011	2012	2013
Production					
1. Kaolin (Washed)					
Northern Region					
Lampang	31,639	33,749	28,033	35,670	18,322
Central Region					
Chanthaburi	-	-	-	-	315
Phetchaburi	28,900	31,300	29,350	26,700	29,500
Ratchaburi	3,000	3,200	6,200	-	-
Southern Region					
Narathiwat	6,100	6,985	6,415	6,975	7,110
Ranong	61,492	81,593	93,884	99,119	93,765
Total Production	**131,131**	**156,827**	**163,882**	**168,464**	**149,012**
Value (Million Baht)	**125.9**	**150.6**	**157.3**	**161.7**	**143.1**
2. Kaolin (Unwashed)					
Northern Region					
Lampang	481,817	180,154	386,391	464,095	207,833
Uthai Thani	64,000	64,450	147,400	255,080	50,000
Uttaradit	5,250	7,100	92,900	21,000	-
Central Region					
Chanthaburi	6,262	28,190	50,335	-	3,100
Kanchanaburi	125,600	234,100	173,000	135,300	241,300
Lop Buri	9,300	51,000	68,300	80,500	82,000
Prachin Buri	16,517	18,000	14,000	18,300	16,600
Southern Region					
Surat Thani	-	-	-	-	800
Total Production	**708,746**	**582,994**	**932,326**	**974,275**	**601,633**
Value (Million Baht)	**272.9**	**224.5**	**358.9**	**375.1**	**231.6**

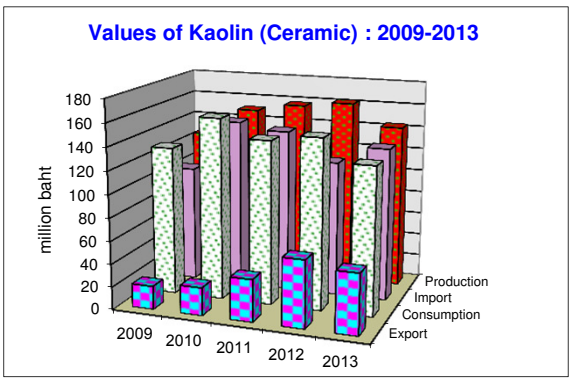
Tonnes

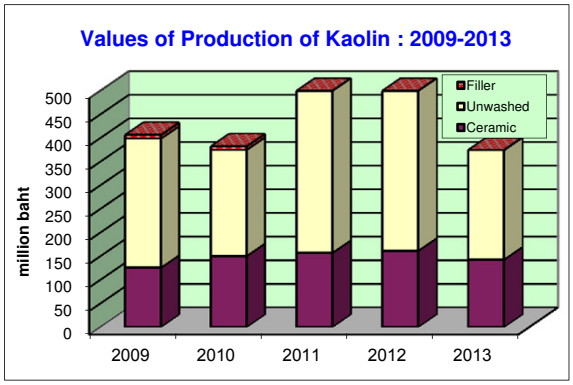
	2009	2010	2011	2012	2013
3. Kaolin (Filler)					
Northern Region					
Uttaradit	4,046	3,837	4,329	300	-
Total Production	**4,046**	**3,837**	**4,329**	**300**	**-**
Value (Million Baht)	**7.7**	**7.3**	**8.2**	**0.6**	**-**
Export					
1.Washed					
Asia					
Bangladesh	-	88	622	765	584
China	22	64	189	20	566
India	132	971	258	758	939
Indonesia	792	528	1,076	1,488	1,348
Korea,South	-	-	-	1	27
Malaysia	658	842	2,300	1,790	3,508
Myanmar	-	-	9	-	-
Pakistan	-	48	40	-	88
Philippines	192	240	398	506	552
Singapore	-	-	-	-	24
Sri Lanka	48	-	-	-	-
Vietnam	3,058	2,848	3,744	4,140	3,778
Europe					
U.K	-	-	-	20	-
Total Export	**4,902**	**5,629**	**8,636**	**9,488**	**11,414**
Value (Million Baht)	**20.5**	**24.5**	**37.0**	**58.7**	**52.8**
2. Unwashed					
Asia					
Vietnam	4,200	-	21	-	-
Total Export	**4,200**	**-**	**21**	**-**	**-**
Value (Million Baht)	**0.1**	**-**	**0.1**	**-**	**-**

Tonnes

	2009	2010	2011	2012	2013
Consumption					
1. Washed	**135,265**	**165,187**	**148,741**	**154,594**	**143,966**
Value (Million Baht)	**129.9**	**158.6**	**142.8**	**148.4**	**128.7**
2. Unwashed	**471,121**	**404,635**	**634,639**	**962,495**	**574,731**
Value (Million Baht)	**181.4**	**155.8**	**244.3**	**370.6**	**221.3**
3. Filler	**3,774**	**3,837**	**4,029**	**300**	**-**
Value (Million Baht)	**7.2**	**7.3**	**7.7**	**0.6**	**-**
Import[1]					
1. Ceramic	**8,410**	**13,880**	**16,907**	**14,965**	**17,240**
Value (Million Baht)	**102.0**	**147.3**	**141.9**	**117.9**	**133.2**
2. Paper	**4,534**	**5,918**	**4,423**	**4,404**	**3,166**
Value (Million Baht)	**54.9**	**62.5**	**42.7**	**41.1**	**29.6**
3. Others	**68,336**	**65,956**	**65,691**	**68,868**	**69,061**
Value (Million Baht)	**405.7**	**536.9**	**543.5**	**663.2**	**639.9**







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

L E A D

Tonnes

	2009	2010	2011	2012	2013
Import (Lead Ore)[1]					
Total Import	**0.2**	**283**	**32**	**2**	**0****
Value (Million Baht)	**0.0***	**5.5**	**0.7**	**0.0***	**0.0***

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

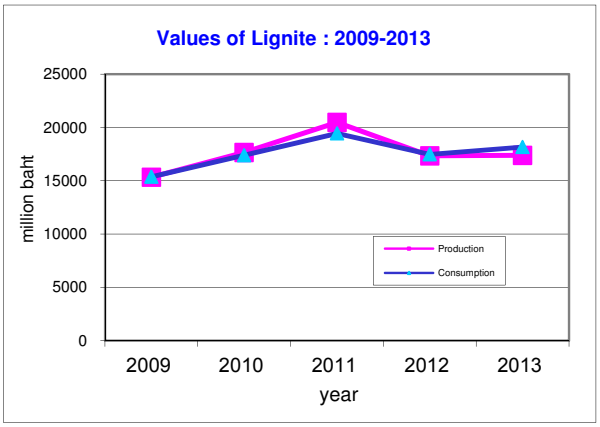
	2009	2010	2011	2012	2013
Export					
Asia					
China	1,512	1,224	-	-	-
India	426	256	448	-	46
Indonesia	-	273	299	1	148
Iran	-	-	648	-	-
Japan	-	-	-	21	-
Korea, South	-	-	539	556	462
Malaysia	-	-	357	84	252
Philippines	-	24	383	1,102	420
Singapore	-	-	-	-	24
Taiwan	207	24	63	-	-
Africa					
Tunisia	160	-	-	72	-
Europe					
Iceland	-	-	336	-	-
Turkey	292	216	671	561	205
Ukraine	-	-	-	-	63
Total Export	**2,597**	**2,017**	**3,744**	**2,397**	**1,620**
Value (Million Baht)	**33.7**	**33.3**	**65.3**	**60.3**	**43.5**
Import[1]					
Total Import	**4,535**	**8,080**	**3,389**	**3,461**	**2,540**
Value (Million Baht)	**122.9**	**215.2**	**104.6**	**265.6**	**128.5**

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

L I G N I T E

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Lampang	17,576,961	18,165,299	20,881,950	17,778,246	17,884,763
Lamphun	181,900	160,600	352,960	145,433	3,000
Tak	-	73,500	92,196	145,749	223,000
Total Production	**17,758,861**	**18,399,399**	**21,327,106**	**18,069,428**	**18,110,763**
Value (Million Baht)	**15,334.8**	**17,663.4**	**20,474.0**	**17,346.7**	**17,386.3**
Consumption					
Total Consumption	**17,842,528**	**18,117,685**	**20,256,989**	**18,198,546**	**18,926,159**
Value (Million Baht)	**15,376.6**	**17,393.0**	**19,446.7**	**17,470.6**	**18,169.1**
Import[1]					
Total Import	**23**	**79**	**15**	**481**	**4,870**
Value (Million Baht)	**0.5**	**1.2**	**0.3**	**16.2**	**24.8**



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

L I M E S T O N E

Tonnes

	2009	2010	2011	2012	2013
Production					
1. Cement Industry					
Northern Region					
Lampang	1,424,530	2,236,129	2,224,080	2,489,710	2,357,795
Nakhon Sawan	152,688	-	-	-	496,789
Northeastern Region					
Nakhon Ratchasima	34,018	36,674	30,926	14,950	14,831
Central Region					
Phetchaburi	41,270	340,471	530,319	399,205	533,075
Sara Buri	49,302,757	52,226,265	53,156,082	55,771,160	58,254,579
Southern Region					
Nakhon Si Thammarat	5,893,231	6,609,103	7,066,604	7,159,780	6,929,365
Total Production	**56,848,494**	**61,448,642**	**63,008,011**	**65,834,805**	**68,586,434**
Value (Million Baht)	**6,821.8**	**7,373.8**	**7,561.0**	**7,900.2**	**8,230.4**
2. Other Industries					
Northern Region					
Lampang	1,374,735	1,380,000	1,625,812	1,593,150	1,464,842
Northeastern Region					
Nakhon Ratchasima	21,937	80,832	62,365	94,636	176,243
Central Region					
Kanchanaburi	310	900	1,900	3,700	-
Sara Buri	2,143,932	2,243,644	2,594,355	3,357,937	4,462,533
Total Production	**3,540,914**	**3,705,376**	**4,284,432**	**5,049,423**	**6,103,618**
Value (Million Baht)	**424.9**	**444.6**	**514.1**	**605.9**	**732.4**
3. Dimension Stone					
Northern Region					
Kamphaeng Phet	1,820	-	-	-	-
Nan	80	-	-	-	-
Central Region					
Sara Buri	41	34	27	60	135
Total Production	**1,941**	**34**	**27**	**60**	**135**
Value (Million Baht)	**3.9**	**0.1**	**0.1**	**0.1**	**0.3**

Tonnes

	2009	2010	2011	2012	2013
4. Construction					
Northern Region					
Chiang Mai	652,600	1,306,313	1,538,608	2,051,300	1,966,600
Chiang Rai	1,012,145	985,120	1,677,070	1,981,480	1,516,825
Kamphaeng Phet	256,259	337,724	932,462	543,321	655,817
Lampang	1,364,858	866,873	668,317	900,995	908,639
Lamphun	972,689	973,310	689,283	450,210	1,081,447
Nakhon Sawan	2,260,398	3,489,484	2,699,768	2,775,065	2,889,134
Nan	270,450	442,000	118,412	254,131	182,784
Phayao	1,523,214	445,071	294,686	872,735	933,897
Phetchabun	1,839,752	2,051,249	1,575,687	1,893,858	1,539,250
Phitsanulok	-	103,329	245,946	316,912	274,417
Phrae	287,023	310,314	204,856	244,191	274,646
Sukhothai	574,074	988,388	1,036,475	1,150,233	1,710,214
Tak	309,843	320,136	348,950	653,220	737,870
Uthai Thani	254,424	342,787	284,061	427,766	354,342
Uttaradit	458,958	556,589	169,871	-	-
Northeastern Region					
Khon Kaen	3,765,780	3,910,720	5,779,595	3,063,236	3,355,908
Loei	2,026,854	2,156,224	2,594,267	2,898,620	2,990,422
Nakhon Ratchasima	1,945,352	2,390,503	2,536,384	2,309,724	2,189,684
Nong Bua Lamphu	1,285,852	1,197,510	1,235,802	1,218,982	1,290,209
Udon Thani	441,600	368,712	200,000	279,100	290,520
Central Region					
Cha Choeng Sao	-	-	-	-	516
Chai Nai	24,165	34,013	50,643	113,220	20,517
Chanthaburi	101,055	101,908	120,659	173,001	171,000
Chon Buri	8,124,039	7,610,566	9,457,415	9,079,492	9,927,498
Kanchanaburi	1,043,583	1,650,047	1,745,124	1,331,891	3,979,072
Lop Buri	917,772	658,671	947,000	695,500	539,787
Phetchaburi	604,721	1,018,488	1,623,957	1,442,057	1,304,775
Prachin Buri	319,214	100,079	283,021	327,710	259,910
Prachuap Khiri Khan	796,928	1,154,890	1,124,612	1,274,998	1,380,002
Ratchaburi	4,663,175	2,918,732	2,890,462	3,729,490	4,342,807
Rayong	630,230	617,715	476,980	546,496	520,309
Sa Kaeo	240,974	261,662	228,366	503,182	41,946
Sara Buri	10,648,244	9,488,282	11,458,877	11,624,816	14,244,290
Suphan Buri	9,108,539	10,891,410	11,556,842	12,444,394	13,386,874

Tonnes

	2009	2010	2011	2012	2013
Southern Region					
Chumphon	1,438,316	553,707	866,189	828,599	978,837
Krabi	612,929	744,135	713,672	631,279	511,807
Nakhon Si Thammarat	3,828,089	3,687,151	4,233,315	4,590,647	4,414,295
Phangnga	686,536	613,557	492,617	529,880	528,998
Phatthalung	155,323	204,008	423,487	-	-
Satun	282,500	511,526	761,762	1,015,576	808,203
Songkhla	1,254,452	506,550	696,840	440,383	311,224
Surat Thani	1,479,692	2,218,459	2,319,260	2,333,327	2,747,333
Trang	757,565	316,540	397,929	407,544	503,250
Yala	970,478	429,569	580,891	886,714	683,638
Total Production	**70,190,643**	**69,834,022**	**78,280,420**	**79,235,275**	**86,749,513**
Value (Million Baht)	**7,370.0**	**7,332.6**	**8,219.4**	**8,319.7**	**9,108.7**

Export

1. Construction

Asia					
Bangladesh	30,900	53,737	22,000	40,900	42,000
Cambodia	600	-	-	-	-
India	1,186,826	202,750	213,183	153,192	283,706
Singapore	-	-	-	87,164	-
Vietnam	-	60	-	-	-
Taiwan	-	-	27,700	38,500	84,000
Australia / Oceania					
New Caledonia	-	-	66,859	-	65,740
Europe					
Germany	3	1	1	9	-
Total Export	**1,218,329**	**256,548**	**329,743**	**319,765**	**475,446**
Value (Million Baht)	**487.7**	**88.5**	**132.1**	**110.6**	**185.9**

Tonnes

	2009	2010	2011	2012	2013
2. Other Industries					
Asia					
Brunei	-	-	1	-	-
Cambodia	2,254	1,560	1,146	834	126
China	-	-	-	22	-
India	300	-	-	-	-
Indonesia	-	-	-	3,123	-
Jordan	-	-	22	21	21
Laos	-	-	-	440	1,518
Malaysia	1	-	-	-	-
Myanmar	0.3	-	56	33	-
Vietnam	11	5	-	-	42
Africa					
Nigeria	-	2	-	-	-
South Africa	59	-	-	-	-
Australia / Oceania					
Australia	45	120	241	384	309
Europe					
Denmark	-	-	2	-	-
Germany	-	-	11	1	-
Total Export	**2,669**	**1,687**	**1,479**	**4,859**	**2,016**
Value (Million Baht)	**4.3**	**3.5**	**3.4**	**15.0**	**7.0**

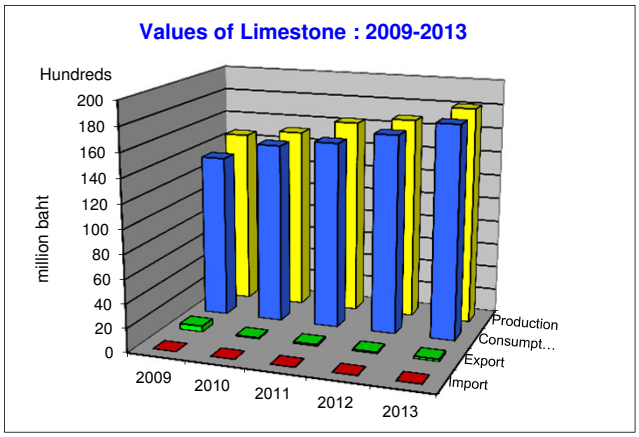
Consumption

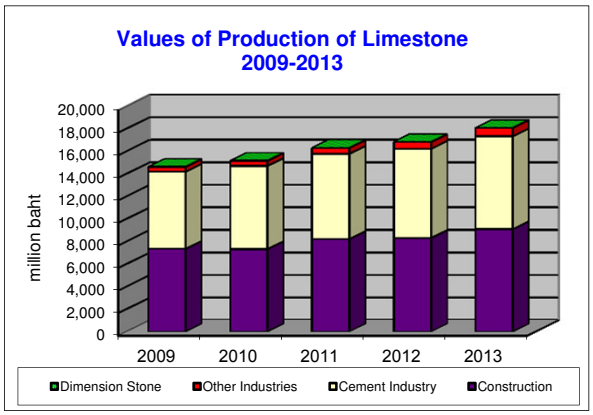
1. Cement Industry	**54,882,205**	**60,614,383**	**62,530,873**	**63,783,890**	**65,731,000**
Value (Million Baht)	**6,585.9**	**7,273.7**	**7,503.7**	**7,654.1**	**7,887.7**
2. Construction	**62,552,086**	**69,205,206**	**71,141,814**	**78,234,119**	**86,400,163**
Value (Million Baht)	**6,567.9**	**7,266.5**	**7,469.9**	**8,214.6**	**9,072.0**
3. Dimension Stone	**41**	**34**	**12**	**60**	**135**
Value (Million Baht)	**0.1**	**0.1**	**0.0***	**0.1**	**0.3**
4. Other Industries	**3,266,563**	**3,383,776**	**4,304,560**	**5,137,747**	**5,816,898**
Value (Million Baht)	**392.0**	**406.1**	**516.6**	**616.5**	**698.0**

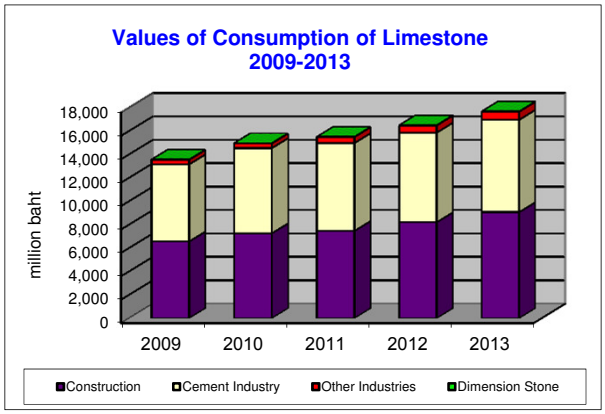
0.0* denoting the amount of less than 0.05 million baht

Tonnes

	2009	2010	2011	2012	2013
Import[1]					
Total Import	**4,045**	**3,256**	**6,842**	**3,421**	**3,057**
Value (Million Baht)	**3.8**	**4.3**	**14.6**	**1.9**	**3.3**







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

M A N G A N E S E

Tonnes

	2009	2010	2011	2012	2013
Production					
Metallurgical grade					
Northern Region					
Chiang Mai	23,500	1,650	-	-	-
Chiang Rai	16,430	17,800	398	8,151	14,320
Lamphun	25,000	31,000	-	-	-
Total Production	**64,930**	**50,450**	**398**	**8,151**	**14,320**
Value (Million Baht)	**187.5**	**146.3**	**1.2**	**30.4**	**73.3**
Export					
Metallurgical grade					
Asia					
Bangladesh	-	1,234	2,860	-	-
China	19,055	57,075	16,381	12,375	10,640
India	-	1,389	-	100	-
Indonesia	-	-	-	300	-
Jordan	-	-	-	50	-
Malaysia	-	1	-	-	-
Total Export	**19,055**	**59,699**	**19,241**	**12,825**	**10,640**
Value (Million Baht)	**56.6**	**754.0**	**63.0**	**51.4**	**31.6**
Consumption					
Total Consumption	**11,500**	**54,415**	**-**	**1,118**	**3,575**
Value (Million Baht)	**33.4**	**157.8**	**-**	**4.3**	**18.2**
Import (Manganese Ore)[1]					
Total Import	**50**	**4,530**	**18,633**	**24,282**	**18,017**
Value (Million Baht)	**1.6**	**17.8**	**42.8**	**52.8**	**38.3**

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

M A R B L E

Cubic metre

	2009	2010	2011	2012	2013
Production					
1. Dimension Stone					
Northern Region					
Kamphaeng Phet	-	2,469	320	-	-
Lampang	1,140	-	-	-	-
Nakhon Sawan	-	25	10	10	-
Sukhothai	2,303	2,229	1,403	769	450
Uthai Thani	-	-	-	-	1,197
Uttaradit	-	835	-	-	-
Northeastern Region					
Nakhon Ratchasima	903	779	421	668	600
Central Region					
Kanchanaburi	30	-	-	-	-
Lop Buri	-	-	10	500	-
Sara Buri	6,460	5,760	5,510	5,275	5,920
Total Production	**10,836**	**12,097**	**7,674**	**7,222**	**8,167**
Value (Million Baht)	**40.1**	**44.8**	**28.4**	**26.7**	**31.9**
2. Fragment					
Northern Region					
Kamphaeng Phet	152,306	215,284	139,353	-	-
Lampang	-	-	-	-	-
Lamphun	-	-	-	38,503	88,787
Sukhothai	21,795	-	5,308	14,000	-
Tak	42,803	73,773	105,219	-	-
Uttaradit	4,000	750	99,697	252,144	364,915
Northeastern Region					
Nakhon Ratchasima	-	-	-	-	29,500
Central Region					
Lop Buri	-	-	200	-	1,000
Sara Buri	503,476	477,330	151,786	-	-
Total Production	**724,380**	**767,137**	**501,563**	**304,647**	**484,202**
Value (Million Baht)	**163.0**	**249.3**	**163.0**	**99.0**	**157.4**

Cubic metre

	2009	2010	2011	2012	2013
Consumption					
1. Dimension Stone	**68,994**	**182,996**	**128,512**	**26,457**	**32,920**
Value (Million Baht)	**255.3**	**677.1**	**475.5**	**97.9**	**128.4**
2. Fragment	**851,561**	**1,078,912**	**535,439**	**221,766**	**484,188**
Value (Million Baht)	**191.6**	**350.6**	**174.0**	**72.1**	**157.4**
Import[1]					
Total Import	**39,806**	**45,010**	**49,532**	**44,094**	**37,128**
Value (Million Baht)	**313.4**	**322.0**	**364.0**	**386.5**	**348.0**

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

M A R L

Tonnes

	2009	2010	2011	2012	2013
Production					
Central Region					
Sara Buri	98,000	68,000	65,000	100,000	75,500
Total Production	**98,000**	**68,000**	**65,000**	**100,000**	**75,500**
Value (Million Baht)	**8.3**	**5.8**	**5.5**	**8.5**	**6.4**
Consumption					
Total Consumption	**86,550**	**69,550**	**69,000**	**113,100**	**13,300**
Value (Million Baht)	**7.4**	**5.9**	**5.9**	**9.6**	**1.1**

M I C A

Tonnes

	2009	2010	2011	2012	2013
Import[1]					
Total Import	**2,991**	**5,504**	**4,860**	**4,577**	**4,504**
Value (Million Baht)	**80.7**	**125.3**	**128.8**	**140.7**	**119.6**

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

M O N A Z I T E

Tonnes

	2009	2010	2011	2012	2013
Export					
Asia					
China	6,510	9,345	4,328	-	210
India	105	-	-	-	-
Korea, South	60	60	-	-	-
Laos	-	-	760	-	-
Malaysia	-	-	-	200	-
Total Export	**6,675**	**9,405**	**5,088**	**200**	**210**
Value (Million Baht)	**180.8**	**284.3**	**171.6**	**10.4**	**9.3**

P E R L I T E

Tonnes

	2009	2010	2011	2012	2013
Production					
Central Region					
Lop Buri	13,500	14,700	26,500	41,400	14,293
Total Production	**13,500**	**14,700**	**26,500**	**41,400**	**14,293**
Value (Million Baht)	**9.5**	**10.4**	**18.7**	**29.2**	**10.1**
Consumption					
Total Consumption	**11,350**	**11,634**	**13,796**	**12,687**	**14,293**
Value (Million Baht)	**8.0**	**8.2**	**9.7**	**7.7**	**10.1**

P H O S P H A T E

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Kamphaeng Phet	-	822	-	-	-
Lamphun	50	34,210	3,020	-	-
Central Region					
Kanchanaburi	-	-	-	1,740	-
Phetchaburi	608	751	280	250	350
Total Production	**658**	**35,783**	**3,300**	**1,990**	**350**
Value (Million Baht)	**0.3**	**14.9**	**1.4**	**0.8**	**0.1**
Consumption					
Total Consumption	**12,506**	**2,316**	**344**	**1,799**	**264**
Value (Million Baht)	**5.2**	**1.0**	**0.1**	**0.7**	**0.1**
Import[1]					
1. Ground	**11,670**	**356**	**71**	**-**	**0****
Value (Million Baht)	**66.6**	**3.0**	**0.7**	**-**	**0.0***
2. Unground	**-**	**11,000**	**1**	**-**	**-**
Value (Million Baht)	**-**	**25.0**	**0.1**	**-**	**-**

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'

P Y R O P H Y L L I T E

Tonnes

	2009	2010	2011	2012	2012
Production					
Central Region					
Sara Buri	124,384	2,205	5,300	35,000	26,820
Total Production	**124,384**	**2,205**	**5,300**	**35,000**	**26,820**
Value (Million Baht)	**43.5**	**0.8**	**1.9**	**12.3**	**9.4**
Export					
Asia					
China	-	-	-	-	200
Indonesia	1,500	880	5,812	3,856	1,936
Japan	-	-	-	-	40
Malaysia	103	198	52	20	40
Vietnam	1,040	1,500	3,300	2,100	3,680
Total Export	**2,643**	**2,578**	**9,164**	**5,976**	**5,896**
Value (Million Baht)	**8.6**	**7.2**	**25.2**	**16.3**	**17.5**
Consumption					
Total Consumption	**5,630**	**2,205**	**5,300**	**33,000**	**26,000**
Value (Million Baht)	**2.0**	**0.8**	**1.9**	**11.6**	**9.1**
Import[1]					
Total Import	**-**	**-**	**-**	**56**	**42**
Value (Million Baht)	**-**	**-**	**-**	**10.0**	**0.7**

Q U A R T Z

Tonnes

	2009	2010	2011	2012	2013
Production					
1. Ground					
Northern Region					
Tak	2,144	2,994	3,046	3,040	2,938
Total Production	**2,144**	**2,994**	**3,046**	**3,040**	**2,938**
Value (Million Baht)	**1.6**	**2.2**	**2.3**	**2.3**	**2.2**
2. Unground					
Central Region					
Kanchanaburi	10,180	38,870	116,710	107,700	126,700
Prachuap Khiri Khan	-	-	1,500	4,500	800
Southern Region					
Nakhon Si Thammarat	630	2,200	2,100	-	-
Total Production	**10,810**	**41,070**	**120,310**	**112,200**	**127,500**
Value (Million Baht)	**8.1**	**30.8**	**90.2**	**84.2**	**95.6**
3. Industrial Rock					
Central Region					
Kanchanaburi	-	5,000	-	-	-
Southern Region					
Songkhla	-	-	29,220	289,560	263,353
Total Production	**-**	**5,000**	**29,220**	**289,560**	**263,353**
Value (Million Baht)	**-**	**0.5**	**3.1**	**30.4**	**27.7**
Export					
Ground					
Asia					
Taiwan	300	-	-	-	-
Total Export	**300**	-	-	-	-
Value (Million Baht)	**1.1**	-	-	-	-

Tonnes

	2009	2010	2011	2012	2013
Consumption					
1. Ground	**2,494**	**2,908**	**4,706**	**3,237**	**2,737**
Value (Million Baht)	**1.9**	**2.2**	**3.5**	**2.4**	**2.1**
2. Unground	**4,250**	**29,433**	**64,300**	**47,190**	**66,560**
Value (Million Baht)	**3.2**	**22.1**	**48.2**	**35.4**	**49.9**
3. Industrial Rock	**-**	**200**	**15,576**	**194,460**	**226,585**
Value (Million Baht)	**-**	**0.0***	**1.6**	**20.4**	**23.8**
Import[1]					
Total Import	**2,595**	**2,572**	**3,127**	**3,082**	**3,248**
Value (Million Baht)	**10.9**	**23.5**	**14.0**	**15.6**	**17.7**

0.0* denoting the amount of less than 0.05 million baht

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

R H Y O L I T E

Tonnes

	2009	2010	2011	2012	2013
Production					
Central Region					
Sara Buri	217,462	313,631	562,314	794,226	1,244,388
Total Production	**217,462**	**313,631**	**562,314**	**794,226**	**1,244,388**
Value (Million Baht)	**22.8**	**32.9**	**59.0**	**83.4**	**130.7**
Consumption					
Total Consumption	**243,270**	**334,891**	**647,913**	**609,717**	**861,707**
Value (Million Baht)	**25.5**	**35.2**	**68.0**	**64.0**	**90.5**

R O C K S A L T

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Nakhon Ratchasima	1,376,037	1,405,406	1,359,493	1,363,539	1,300,156
Total Production	**1,376,037**	**1,405,406**	**1,359,493**	**1,363,539**	**1,300,156**
Value (Million Baht)	**1,513.6**	**1,545.9**	**1,495.4**	**1,499.9**	**1,430.2**
Consumption					
Total Consumption	**1,380,363**	**1,396,015**	**1,351,073**	**1,344,162**	**1,312,516**
Value (Million Baht)	**1,518.4**	**1,535.6**	**1,486.2**	**1,478.6**	**1,443.8**
Import[1]					
Total Import	**2**	**1**	**5**	**-**	**-**
Value (Million Baht)	**0.0***	**0.0***	**0.1**	**-**	**-**

0.0* denoting the amount of less than 0.05 million baht

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

R U T I L E

Tonnes

	2009	2010	2011	2012	2013
Export					
Asia					
China	24	504	1,242	10	-
India	1,039	210	-	-	-
Indonesia	46	-	-	-	-
Iran	-	96	48	93	410
Korea, South	41	-	-	-	-
Malaysia	-	24	305	-	-
Pakistan	100	-	-	-	-
Philippines	84	651	577	-	-
Europe					
Netherlands	132	-	-	-	-
Turkey	651	813	428	-	-
Ukraine	-	-	115	514	-
Total Export	**2,117**	**2,298**	**2,715**	**617**	**410**
Value (Million Baht)	**28.7**	**38.5**	**53.2**	**21.2**	**14.4**
Import[1]					
Total Import	**7,331**	**7,276**	**6,684**	**5,492**	**3,991**
Value (Million Baht)	**68.5**	**77.9**	**181.5**	**460.1**	**220.3**

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

S A N D S T O N E

Tonnes

	2009	2010	2011	2012	2013
Production					
1. Dimension Stone					
Northern Region					
Nakhon Ratchasima	670	2,642	2,883	1,498	2,445
Total Production	670	2,642	2,883	1,498	2,445
Value (Million Baht)	**0.5**	**1.8**	**2.0**	**1.0**	**1.7**
2. Industrial Rock					
Southern Region					
Phangnga	116,885	127,625	127,450	228,131	189,182
Satun	-	50,861	180,720	167,549	191,906
Total Production	**116,885**	**178,486**	**308,170**	**395,680**	**381,089**
Value (Million Baht)	**11.7**	**17.9**	**30.8**	**39.6**	**38.1**
Consumption					
1. Dimension Stone	**640**	**2,642**	**2,883**	**1,498**	**2,415**
Value (Million Baht)	**0.4**	**1.8**	**2.0**	**1.0**	**1.7**
2. Industrial Rock	**116,885**	**187,048**	**301,811**	**322,860**	**316,637**
Value (Million Baht)	**11.7**	**18.7**	**30.2**	**32.3**	**31.7**
Import[1]					
Dimension Stone	**738**	**1,508**	**473**	**768**	**220**
Value (Million Baht)	**12.0**	**26.1**	**3.6**	**10.9**	**2.6**

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'

S H A L E

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Lampang	46,737	-	-	1,147	3,031
Central Region					
Sara Buri	3,720,054	4,180,593	4,593,446	4,754,237	4,304,409
Total Production	**3,766,791**	**4,180,593**	**4,593,446**	**4,755,384**	**4,307,440**
Value (Million Baht)	**470.9**	**522.6**	**574.2**	**594.4**	**538.4**
Consumption					
Total Consumption	**4,078,561**	**4,126,822**	**4,343,767**	**4,698,855**	**4,028,571**
Value (Million Baht)	**509.8**	**515.9**	**543.0**	**587.4**	**503.6**

S I L V E R

Gram

	2009	2010	2011	2012	2013
Production					
Northern Region					
Phetchabun	5,640,670	7,072,696	10,075,526	26,193,636	12,703,941
Phichit	10,562,930	10,359,768	9,245,833	5,631,776	19,675,044
Northeastern Region					
Loei	59,818	126,009	134,533	221,389	-
Total Production	**16,263,418**	**17,558,473**	**19,455,892**	**32,046,801**	**32,378,984**
Value (Million Baht)	**264.0**	**359.3**	**661.7**	**988.4**	**747.4**
Export					
Asia					
Hong Kong	16,263,418	17,558,473	19,456,075	32,046,801	32,378,984
Total Export	**16,263,418**	**17,558,473**	**19,456,075**	**32,046,801**	**32,378,984**
Value (Million Baht)	**263.9**	**359.3**	**661.7**	**988.4**	**775.5**
Import[1]					
Total Import	**13**	**25**	**19**	**-**	**12**
Value (Million Baht)	**0.6**	**1.3**	**1.7**	**-**	**1.2**

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

S T R U V E R I T E

Tonnes

	2009	2010	2011	2012	2013
Export					
Asia					
China	-	276	642	410	147
Total Export	**-**	**276**	**642**	**410**	**147**
Value (Million Baht)	**-**	**26.7**	**71.1**	**39.0**	**27.1**

T A L C

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Uttaradit	504	672	2,304	5,856	7,880
Total Production	**504**	**672**	**2,304**	**5,856**	**7,880**
Value (Million Baht)	**0.3**	**0.4**	**1.4**	**3.5**	**4.7**
Consumption					
Total Consumption	**488**	**647**	**3,024**	**5,732**	**7,465**
Value (Million Baht)	**0.3**	**0.4**	**1.8**	**3.4**	**4.5**
Import[1]					
Total Import	**100,919**	**135,219**	**126,254**	**138,694**	**143,049**
Value (Million Baht)	**5,089.2**	**1,452.9**	**1,380.8**	**1,786.2**	**1,751.1**

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

T A N T A L U M

Tonnes

	2009	2010	2011	2012	2013
Export					
1. Columbium Pentoxide Powder					
Asia					
China	-	-	**150**	-	-
Total Export	**-**	**-**	**150**	**-**	**-**
Value (Million Baht)	**-**	**-**	**15.7**	**-**	**-**
Import (Tantalite)[1]					
Total Import	**-**	**-**	**483**	**652**	**42**
Value (Million Baht)	**-**	**-**	**946.8**	**675.3**	**77.0**

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

T I N

Tonnes

	2009	2010	2011	2012	2013
Production					
1. Production of Tin Concentrates by changwat					
Northern Region					
Chiang Mai	105	216	228	154	75
Central Region					
Kanchanaburi	14	5	5	13	18
Phetchaburi	6	10	8	-	-
Southern Region					
Ranong	42	60	45	32	39
Total Production	**167**	**292**	**286**	**199**	**132**
Value (Million Baht)	**57.3**	**134.3**	**172.0**	**94.1**	**65.6**
2. Production of Tin Concentrates by Mining Methods.					
Open Pitting	125	232	241	167	93
Dulang Washing	42	60	45	32	39
Total Production	**167**	**292**	**286**	**199**	**132**
3. Percentage of Tin Production by Mining Methods.					
Open Pitting	74.9	79.4	84.3	83.9	70.4
Dulang Washing	25.1	20.6	15.7	16.1	29.6
4. Production of Primary Tin Metal					
Total Production	**19,248**	**23,319**	**23,714**	**22,797**	**22,923**
Value (Million Baht)	**8,835.4**	**15,116.9**	**19,042.1**	**15,012.7**	**15,574.7**

Tonnes

	2009	2010	2011	2012	2013
Export					
1. Primary Tin Metal					
Africa					
Egypt	4	5	-	-	-
Guinea	-	-	204	-	-
South Africa	-	-	-	125	-
U.A.E	-	5	-	-	-
Asia					
Bangladesh	-	-	-	-	20
China	260	80	200	519	715
Hong Kong	1385.0	80.0	50.0	51.3	84
India	620	120	255	585	175
Israel	-	-	-	-	10
Japan	6,299	13,952	10,156	9,524	9,209
Korea, South	893	1,334	1,181	2,673	3,318
Malaysia	791	521	184	140	180
Pakistan	-	-	-	-	6
Philippines	2	31	6	10	117
Russia	-	-	-	-	10
Singapore	4,785	1,595	4,000	134	-
Taiwan	351	353	393	361	607
Vietnam	-	-	-	-	44
Australia / Oceania					
Australia	312	190	498	213	92
New Zealand	-	-	6	-	7
Europe					
Austria	-	50	178	-	-
Belgium	20	20	122	158	168
France	10	-	-	120	-
Germany	26	394	1,400	484	158
Italy	571	125	-	50	1,000
Netherlands	306	21	-	1,975	2,400
Switzerland	-	25	1,125	-	-
Turkey	25	-	-	25	-
U.K.	3	462	57	301	227
North America					
U.S.A.	-	-	-	2,180	1,175
Total Export	**16,661**	**19,363**	**20,015**	**19,628**	**19,721**
Value (Million Baht)	**7,890.1**	**12,694.3**	**16,387.6**	**13,248.0**	**13,483.4**

Tonnes

	2009	2010	2011	2012	2013
2. Tin-Lead Alloy					
Asia					
Hong Kong	22	14	-	-	-
Malaysia	21	-	-	-	-
Europe					
Belgium	-	22	37	55	25
Total Export	**43**	**36**	**37**	**55**	**25**
Value (Million Baht)	**17.1**	**19.7**	**33.8**	**30.5**	**9.8**
3. Final Slag					
Asia					
China	1,910	1,271	50	57	37
India	-	-	-	-	1
Total Export	**1,910**	**1,271**	**50**	**57**	**38**
Value (Million Baht)	**157.0**	**105.6**	**3.7**	**6.4**	**7.2**
4. Metallic Residue					
Asia					
Japan	-	-	-	20	-
Total Export	**-**	**-**	**-**	**20**	**-**
Value (Million Baht)	**-**	**-**	**-**	**12.5**	**-**
5. Tin Slag					
Asia					
China	-	-	74	-	-
Total Export	**-**	**-**	**74**	**-**	**-**
Value (Million Baht)	**-**	**-**	**4.4**	**-**	**-**

Tonnes

	2009	2010	2011	2012	2013
6. Hard Head					
Africa					
U.A.E	-	-	-	86	-
Europe					
Belgium	1,357	1,389	297	280	45
Total Export	**1,357**	**1,389**	**297**	**366**	**45**
Value (Million Baht)	**271.3**	**422.3**	**138.5**	**164.5**	**16.1**
7. Tin Dross					
Asia					
Saudi Arabia	-	-	22	-	-
U.A.E.	-	39	86	-	-
Europe					
Belgium	-	20	-	39	-
Total Export	**-**	**59**	**108**	**39**	**-**
Value (Million Baht)	**-**	**24.8**	**48.0**	**13.9**	**-**
Consumption					
1. Primary Tin Metal	**2,603**	**3,707**	**3,321**	**3,321**	**3,012**
Value (Million Baht)	**1,216.5**	**2,346.8**	**2,648.3**	**2,176.1**	**2,044.3**
2. Tin-lead Alloy	**697**	**1,037**	**985**	**833**	**-**
Value (Million Baht)	**n.a.**	**n.a.**	**n.a.**	**n.a.**	**-**
Import[1]					
Tin ore	**17,985**	**3,432**	**2,716**	**2,842**	**648**
Value (Million Baht)	**4,272.0**	**685.0**	**257.2**	**397.0**	**280.4**

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

T R A V E R T I N E

Tonnes

	2009	2010	2011	2012	2013
Production					
Central Region					
Sara Buri	2,910	1,760	900	900	-
Total Production	**2,910**	**1,760**	**900**	**900**	**-**
Value (Million Baht)	**5.8**	**3.5**	**1.8**	**1.8**	**-**
Consumption					
Total Consumption	**2,910**	**1,720**	**900**	**900**	**-**
Value (Million Baht)	**5.8**	**3.4**	**1.8**	**1.8**	**-**
Import[1]					
Total Import	**0.1**	**0.1**	**0.1**	**0****	**0****
Value (Million Baht)	**0.0***	**0.0***	**0.1**	**0.0***	**0.0***

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'

T U N G S T E N

Tonnes

		2009	2010	2011	2012	2013
1. Wolfram						
Production						
Northern Region						
Phrae		200	320	146	-	108
	Low grade	-	256	-	-	-
Central Region						
Kanchanaburi		-	4.5	7.3	2.5	5.2
Phetchaburi		0**	1.9	0.3	-	-
Total Production		**200**	**326.4**	**153.6**	**2.5**	**113.2**
	Low grade	**-**	**256**	**-**	**-**	**-**
Value (Million Baht)		**19.9**	**32.4**	**15.3**	**0.2**	**11.3**
	Low grade	**-**	**7.0**	**-**	**-**	**-**
Export						
Asia						
China		160	320	204	-	60
Europe						
Germany		-	20	-	-	-
North America						
U.S.A.		-	7	-	-	-
Total Export		**160**	**347**	**204**	**-**	**60**
Value (Million Baht)		**47.3**	**2.3**	**3.1**	**-**	**1.7**
Import[1]						
Total Import		**8**	**7**	**39**	**21**	**5**
Value (Million Baht)		**0.7**	**0.1**	**2.9**	**1.8**	**1.3**

0** denoting the amount of less than 0.1 tonnes

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

Tonnes

	2009	2010	2011	2012	2013
2. Scheelite					
Production					
Northern Region					
Chiang Mai	150	129	138	130	139
Total Production	**150**	**129**	**138**	**130**	**139**
Value (Million Baht)	**14.9**	**12.8**	**13.7**	**12.9**	**13.8**
Export					
Asia					
China	-	-	19	-	-
Hong Kong	-	-	-	17	-
Vietnam	-	-	19	21	-
Europe					
Austria	-	-	-	43	71
North America					
U.S.A.	122	116	122	135	102
Total Export	**122**	**116**	**160**	**216**	**173**
Value (Million Baht)	**46.6**	**43.9**	**46.5**	**22.0**	**17.2**
3. Other Tungsten					
Import[1]					
Total Import	**-**	**0****	**0****	**-**	**-**
Value (Million Baht)	**-**	**0.0***	**0.0***	**-**	**-**

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

	2009	2010	2011	2012	2013
Export					
Asia					
China	-	42	21	-	-
Total Export	**-**	**42**	**21**	**-**	**-**
Value(Million Baht)	**-**	**0.1**	**1.9**	**-**	**-**

Z I N C

Tonnes

	2009	2010	2011	2012	2013
Production					
Northern Region					
Tak	183,288	146,470	148,391	166,642	172,578
Total Production	**183,288**	**146,470**	**148,391**	**166,642**	**172,578**
Value (Million Baht)	**2,056.1**	**2,099.2**	**2,006.3**	**2,102.8**	**2,080.2**
Export					
1. Zinc Metal					
Africa					
Nigeria	-	-	13	35	-
Asia					
Cambodia	-	-	51	20	45
China	6,574	-	-	-	-
Hong Kong	121	-	-	-	-
India	122	1	-	250	133
Indonesia	609	7	7	8	1
Japan	-	-	982	41	-
Korea, South	2,420	302	-	80	-
Laos	121	273	374	-	-
Malaysia	637	1	2,023	1,271	3
Myanmar	40	615	-	1,342	-
Saudi Arabia	4,023	-	-	-	-
Singapore	919	-	2,407	331	212
Taiwan	-	-	-	2	389
Vietnam	3,362	3,322	4,678	3,758	303
Europe					
Italy	-	-	20	-	-
Total Export	**18,947**	**4,522**	**10,555**	**7,138**	**1,086**
Value (Million Baht)	**911.2**	**329.1**	**714.5**	**441.1**	**87.7**

Tonnes

	2009	2010	2011	2012	2013
2. Zinc Alloy					
Africa					
Nigeria	-	-	62	-	-
Asia					
Cambodia	22	18	0.4	-	-
Japan	-	-	21	-	-
Malaysia	-	-	-	41	39
Auatralia / Oceania					
Australia	-	96	59	55	3
Total Export	**22**	**114**	**142**	**96**	**42**
Value (Million Baht)	**1.9**	**6.6**	**10.5**	**5.2**	**2.2**
Consumption					
1. Zinc Alloy	**24,045**	**30,873**	**36,253**	**34,735**	**32,493**
Value (Million Baht)	**1,517.6**	**2,380.1**	**2,746.8**	**2,324.3**	**2,134.8**
2. Zinc Metal	**55,817**	**61,142**	**54,410**	**51,960**	**33,168**
Value (Million Baht)	**3,205.9**	**4,390.3**	**3,802.8**	**3,266.0**	**2,039.5**
Import (Zinc Ore)[1]					
Total Import	**148,441**	**174,586**	**125,818**	**139,625**	**119,896**
Value (Million Baht)	**1,845.4**	**3,781.4**	**3,273.4**	**3,090.1**	**2,451.5**

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

Z I R C O N

Tonnes

	2009	2010	2011	2012	2013
Export					
Asia					
China	10,420	7,512	11,064	4,882	7,673
India	16	-	-	-	-
Philippines	21	64	-	-	-
Taiwan	-	-	138	240	-
Total Export	**10,457**	**7,576**	**11,202**	**5,122**	**7,673**
Value(Million Baht)	**165.9**	**133.3**	**277.3**	**176.9**	**254.8**
Import (Zirconium Ore)[1]					
Total Import	**18,138**	**47,451**	**46,633**	**12,334**	**35,696**
Value (Million Baht)	**266.8**	**493.1**	**1,351.6**	**615.0**	**506.8**

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

NUMBER OF ACTIVE MINES BY KIND OF MINERALS

	2009	2010	2011	2012	2013
Andesite	2	2	2	3	3
Antimony	1	2	2	2	-
Ball clay	17	11	7	6	6
Barite	4	4	4	4	4
Basalt (industrial rock)	30	31	29	26	26
Bentonite	1	1	1	1	1
Calcite	8	7	6	6	7
Cement clay	47	37	31	4	9
Ceramic clay	17	14	10	2	2
Diatomite	2	2	1	1	-
Dolomite	16	17	18	22	19
Feldspar	25	23	22	23	22
Fluorite	5	4	4	3	2
Gem stone	1	1	-	-	-
Glass sand	13	12	11	9	11
Gneiss	1	1	1	1	1
Gold	4	4	4	4	4
Granite (dimension stone)	33	30	28	23	22
Granite (industrial rock)	19	19	18	17	18
Graywacke	1	1	1	1	1
Gypsum	45	48	49	47	46
Iron	10	10	9	13	14
Kaolin	32	33	34	31	29
Lignite	9	9	8	8	7
Limestone (cement)	18	19	18	15	14
Limestone (construction)	195	179	186	190	192
Limestone (dimension)	3	3	3	4	5
Limestone (others)	21	18	19	19	13
Manganese	3	2	3	3	2
Marble	31	32	25	19	17
Marl	4	4	3	3	3

NUMBER OF ACTIVE MINES BY KIND OF MINERALS

	2009	2010	2011	2012	2013
Perlite	2	2	2	2	3
Phosphate	2	2	2	1	1
Pyrophyllite	3	2	2	3	3
Quartz	2	2	4	7	7
Quartz (industrial rock)	1	1	-	-	-
Rhyolite (industrial rock)	1	1	1	1	1
Rock salt	4	4	4	4	4
Sand stone (dimension)	10	8	7	7	8
Sand stone (industrial rock)	2	2	2	3	4
Shale	7	7	7	7	6
Talc	1	1	1	1	2
Tin*	5	5	5	3	3
Travertine	4	4	3	3	3
Wolfram	1	1	1	1	1
Zinc	1	1	1	1	1
Total	664	623	599	554	547

* Including tin-tungsten mines

NUMBER OF WORKERS EMPLOYED IN MINES BY KIND OF MINERAL

	2009	2010	2011	2012	2013
Andesite	43	35	33	30	30
Antimony	7	11	13	21	-
Ball clay	200	161	141	283	354
Barite	71	97	68	55	85
Basalt (industrial rock)	580	709	626	554	544
Bentonite	12	12	11	12	12
Calcite	111	120	89	93	109
Cement clay	261	272	233	35	123
Ceramic clay	90	89	60	17	19
Diatomite	9	5	4	4	-
Dolomite	243	249	257	284	259
Feldspar	357	327	330	324	330
Fluorite	186	145	108	95	67
Gem stone	15	9	-	-	-
Glass sand	64	61	43	30	37
Gneiss	7	7	7	7	7
Gold	207	224	229	213	383
Granite (dimension)	392	338	310	251	221
Granite (industrial rock)	316	314	310	340	354
Graywacke	24	29	31	29	27
Gypsum	1017	1024	1008	1017	933
Iron	342	337	267	353	407
Kaolin	348	353	380	361	344
Lignite	2087	1967	1967	1954	1921
Limestone (cement)	1021	1288	1263	1170	1114
Limestone (construction)	3626	3032	3233	3399	3598
Limestone (dimension)	25	25	25	30	24
Limestone (others)	354	287	316	361	308
Manganese	41	27	24	12	9
Marble	594	561	390	298	295
Marl	23	20	19	16	18

NUMBER OF WORKERS EMPLOYED IN MINES BY KIND OF MINERAL

	2009	2010	2011	2012	2013
Perlite	29	31	28	31	69
Phosphate	22	26	45	59	60
Pyrophyllite	34	23	24	35	37
Quartz	30	31	61	103	108
Quartz (industrial rock)	27	27	-	-	-
Rhyolite (industrial rock)	43	43	43	43	43
Rock salt	124	127	125	128	126
Sand stone (dimension)	55	53	45	42	55
Sand stone (industrial rock)	30	25	25	39	59
Shale	132	140	85	85	84
Talc	6	6	6	8	19
Tin*	283	313	282	269	256
Travertine	22	17	18	19	19
Wolfram	15	15	15	125	76
Zinc	362	292	301	298	256
Dulang Washer	321	209	188	266	246
Total	14,208	13,513	13,086	13,198	13,445

* Including workers employed in tin-tungsten mines

Mineral Production of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Mineral Fuels and Energy										
Lignite	17,758,861	15,334.8	18,399,399	17,663.4	21,327,106	20,474.0	18,069,428	17,346.7	18,110,763	17,386.3
Total		15,334.8		17,663.4		20,474.0		17,346.7		17,386.3
%		29.21		30.98		34.22		28.31		28.64
Iron and Ferro Alloy										
Iron ore	616,399	756.0	976,937	1,360.0	489,359	903.7	303,233	751.7	389,620	907.3
Manganese (metallurgical grade)	64,930	187.5	50,450	146.3	398	1.2	8,151	30.4	14,320	73.3
Tungsten										
- Scheelite	150	14.9	129	12.8	138	13.7	130	12.9	139	13.8
- Wolfram	200	19.9	326	32.4	154	15.3	3	0.2	113	11.2
- Low grade	-	-	256	7.0	-	-	-	-	-	-
Total		978.3		1,558.5		933.9		795.2		1,005.6
%		1.86		2.73		1.56		1.30		1.66
Base Metals										
Antimony										
- Low grade	-	-	-	-	172	n.a.	43	n.a.	-	n.a.
- Ore	35	1.0	738	21.3	56	1.6	-	-	-	-
Copper metal	0	0.0**	723	168.5	525	146.4	721	186.5	-	-
Tin concentrates	167	57.3	292	134.3	286	172.0	199	94.0	132	65.7
Zinc ore	183,288	2,056.1	146,470	2,099.2	148,391	2,006.3	166,642	2,102.8	172,578	2,080.2
Total		2,114.4		2,423.3		2,326.3		2,383.3		2,145.9
%		4.03		4.25		3.89		3.89		3.54

Mineral Production of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Precious Metals and Precious Stone										
Gem stone (unit : gram)	570	n.a.	240	n.a.	-	-	-	-	-	-
Gold metal (unit : gram)	4,866,133	5,235.0	4,045,567	5,023.0	2,860,229	4,425.4	4,895,021	8,119.9	4,396,091	6,076.8
Silver metal (unit : gram)	16,263,418	264.0	17,558,473	359.3	19,455,892	661.7	32,046,801	988.4	32,378,984	747.4
Total		5,499.0		5,382.3		5,087.1		9,108.3		6,824.2
%		10.48		9.44		8.50		14.87		11.24
Cement Industrial Minerals										
Anhydrite	633,820	350.2	536,120	279.3	614,148	304.0	857,172	424.3	1,264,077	648.7
Cement Clay	4,894,329	440.5	8,250,823	742.6	8,571,884	771.5	6,007,039	540.6	2,534,097	228.1
Gypsum (unground)	8,631,797	4,788.3	10,172,629	5,270.4	10,994,074	5,442.1	11,447,199	5,666.4	12,382,648	6,358.7
Limestone	56,848,493	6,821.8	61,448,642	7,373.8	63,008,011	7,561.0	65,834,804	7,900.2	68,586,434	8,230.4
Marl	98,000	8.3	68,000	5.8	65,000	5.5	100,000	8.5	75,500	6.4
Shale	3,766,791	470.9	4,180,593	522.6	4,593,446	574.2	4,755,384	594.4	4,307,440	538.4
Total		12,880.0		14,194.5		14,658.3		15,134.4		16,010.7
%		24.54		24.89		24.50		24.70		26.38
Ceramic Industrial Minerals										
Ball clay	2,312,625	1,271.9	1,513,767	832.6	425,048	233.8	447,348	246.0	112,187	61.7
Ceramic Clay	272,464	149.9	929,162	511.0	404,129	222.3	60,327	33.2	77,358	42.6
Dolomite	1,964,410	687.5	2,451,990	858.2	2,556,765	894.9	2,608,997	913.1	2,487,135	870.5
Feldspar										
- Potassium (ground)	120	0.3	-	-	-	-	-	-	-	-
- Potassium (unground)	9,772	16.6	9,060	15.4	139,169	236.6	5,710	9.7	4,858	8.3

Mineral Production of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Ceramic Industrial Minerals										
Feldspar										
- Sodium (ground)	65	0.1	120	0.2	-	-	-	-	-	-
- Sodium (unground)	708,735	496.1	632,720	442.9	901,983	631.4	1,095,013	766.5	1,067,798	747.5
Glass sand	357,585	125.2	323,985	113.4	221,721	77.6	434,094	151.9	876,085	306.6
Kaolin										
- Filler	4,046	7.7	3,837	7.3	4,329	8.2	300	0.6	-	-
- Unwashed	708,746	272.9	582,994	224.5	932,326	358.9	974,275	375.1	601,633	231.6
- Washed	131,131	125.9	156,827	150.6	163,881	157.3	168,464	161.7	149,012	143.1
Quartz										
- Ground	2,144	1.6	2,994	2.2	3,046	2.3	3,040	2.3	2,938	2.2
- Unground	10,810	8.1	41,070	30.8	120,310	90.2	112,200	84.2	127,500	95.6
Total		3,163.8		3,189.1		2,913.5		2,744.3		2,509.7
%		6.03		5.59		4.87		4.48		4.13
Dimension Stone										
Gneiss	-	-	-	-	60	0.2	140	0.6	30	0.1
Granite	6,352*	32.4	6,123*	31.2	5,267*	26.9	5,505*	28.1	2,950*	17.4
Limestone	1,941	3.9	34	0.1	27	0.1	60	0.1	135	0.3
Marble	10,836*	40.1	12,097*	44.8	7,674*	28.4	7,222*	26.7	8,167*	31.9
Sandstone	670	0.5	2,642	1.8	2,883	2.0	1,498	1.0	2,445	1.7
Travertine	2,910	5.8	1,760	3.5	900	1.8	900	1.8	-	-
Total		82.7		81.4		59.4		58.3		51.4
%		0.16		0.14		0.10		0.10		0.08

Mineral Production of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Industrial Rock										
Andesite	930,655	125.6	1,209,235	163.2	945,587	127.7	1,009,690	136.3	1,109,138	149.7
Basalt	10,521,955	1,420.5	12,489,201	1,686.0	11,318,212	1,528.0	10,712,823	1,446.2	10,873,590	1,467.9
Granite	5,210,304	703.4	5,258,609	709.9	5,648,459	762.5	6,346,756	856.8	7,068,234	954.2
Graywacke	730,597	76.7	968,690	101.7	966,817	101.5	737,621	77.5	861,450	90.5
Limestone	70,190,643	7,370.0	69,834,022	7,332.6	78,280,420	8,219.4	79,235,275	8,319.7	86,749,513	9,108.7
Marble (fragment)	724,380*	163.0	767,137*	249.3	501,563*	163.0	304,647*	99.0	484,202*	157.4
Perlite	13,500	9.5	14,700	10.4	26,500	18.7	41,400	29.2	14,293	10.1
Quartz	-	-	5,000	0.5	29,220	3.1	289,560	30.4	263,353	27.7
Rhyolite	217,462	22.8	313,631	32.9	562,314	59.0	794,226	83.4	1,244,388	130.7
Sandstone	116,885	11.7	178,486	17.9	308,170	30.8	395,680	39.6	381,089	38.1
Total		9,903.2		10,304.4		11,013.7		11,118.1		12,135.0
%		18.87		18.07		18.41		18.15		19.99
Other Industrial Minerals										
Barite										
- Chemical grade (ground)	1,985	11.6	3,865	22.6	2,403	14.1	3,301	19.3	3,889	22.8
- Drilling mud (ground)	-	-	-	-	-	-	14,200	55.3	40,693	158.5
- Unground	49,910	74.1	29,600	44.0	65,300	96.9	46,998	69.8	62,855	93.3
Bentonite	110	0.1	130	0.1	55,220	33.1	141,000	84.6	150	0.1
Calcite	544,019	107.2	693,754	136.7	786,250	154.9	865,800	170.6	841,746	165.8
Diatomite	5,600	5.0	7,100	6.4	38,130	34.3	8,500	7.7	-	-

Mineral Production of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Other Industrial Minerals										
Fluorite (metallurgical grade)	86,365	351.1	2,222	9.0	5,093	20.7	9,602	50.8	2,432	14.1
Limestone	3,540,914	424.9	3,705,376	444.6	4,284,432	514.1	5,049,423	605.9	6,103,618	732.4
Phosphate	658	0.3	35,783	14.9	3,300	1.4	1,990	0.8	350	0.1
Pyrophyllite	124,384	43.5	2,205	0.8	5,300	1.9	35,000	12.3	26,820	9.4
Rock salt	1,376,037	1,513.6	1,405,406	1,545.9	1,359,493	1,495.4	1,363,539	1,499.9	1,300,156	1,430.2
Talc (unground)	504	0.3	672	0.4	2,304	1.4	5,856	3.5	7,880	4.7
Total		2,531.7		2,225.4		2,368.2		2,580.5		2,631.4
%		4.82		3.90		3.96		4.21		4.34
Grand Total		**52,487.9**		**57,022.3**		**59,834.4**		**61,269.1**		**60,700.2**

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

Mineral Export of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Iron and Ferro Alloy										
Columbium pentoxide powder	-	-	-	-	150	15.7	-	-	-	-
Iron ore	200,150	306.4	481,035	452.3	453,080	510.7	161,139	532.3	296,662	597.8
Manganese (metallurgical grade)	19,055	56.6	59,699	754.0	19,241	63.0	12,825	51.4	10,640	31.6
Tungsten										
- Scheelite	122	46.6	116	43.9	160	46.5	216	22.0	173	17.2
- Wolfram	160	47.3	347	2.3	204	3.1	-	-	60	1.7
Total		456.9		1,252.5		639.0		605.7		648.3
%		2.24		4.83		2.18		2.02		2.32
Base Metals										
Antimony ore	539	7.5	1,748	32.8	7,381	142.4	6,268	124.3	6,145	147.4
Copper										
- Metal	0*	0.0**	723	168.5	525	146.4	721	186.5	-	-
- Dross	86	14.6	44	14.7	-	-	-	-	-	-
- Powder	-	-	4	1.2	2	0.7	-	-	-	-
Tin										
- Tin dross	-	-	59	24.8	108	48.0	39	13.9	-	-
- Final slag	1,910	157.0	1,271	105.6	50	3.7	57	6.4	40	8.0
- Hard head	1,357	271.3	1,389	422.3	297	138.5	366	164.5	45	16.1
- Tin metal	16,661	7,890.1	19,363	12,694.3	20,015	16,387.6	19,628	13,248.0	19,721	13,483.4
- Metallic residue	-	-	-	-	-	-	20	12.5	-	-
- Tin-lead alloy	43	17.1	36	19.7	37	33.8	55	30.5	25	9.8
- Tin slag	-	-	-	-	74	4.4	-	-	-	-

Mineral Export of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Base Metals										
Zinc										
- Zinc alloy	22	1.9	114	6.6	142	10.5	96	5.2	42	2.2
- Zinc metal	18,947	911.2	4,522	329.1	10,555	714.5	7,137	441.1	1,086	87.7
Total		9,270.7		13,819.6		17,630.5		14,232.9		13,754.6
%		45.37		53.33		60.25		47.36		49.13
Precious Metals and Precious Stone										
Garnet	-	-	-	-	-	-	23	0.1	162	0.7
Gold metal (unit : gram)	4,866,133	5,234.9	4,045,567	5,022.9	2,860,229	4,425.4	4,895,021	8,119.9	4,396,092	6,076.8
Silver metal (unit : gram)	16,263,418	263.9	17,558,473	359.3	19,455,892	661.7	32,046,801	988.4	32,378,984	775.5
Total		5,498.8		5,382.2		5,087.1		9,108.4		6,853.0
%		26.91		20.77		17.38		30.31		24.48
Light Metals and Rare Earth										
Ilmenite	443	2.3	210	0.8	11,501	31.5	1,680	6.5	1,273	5.1
Leucoxene	2,597	33.7	2,017	33.3	3,744	65.3	2,397	60.3	1,729	46.3
Monazite	6,675	180.8	9,405	284.3	5,088	171.6	200	10.4	210	9.3
Rutile	2,117	28.7	2,298	38.5	2,715	53.2	617	21.2	410	14.4
Struverite	-	-	276	26.7	642	71.1	410	39.0	147	27.1
Xenotime	-	-	42	0.1	21	1.9	-	-	-	-
Zircon	10,457	165.9	7,576	133.3	11,202	277.3	5,122	176.9	8,681	277.8
Total		411.4		517.0		671.9		314.3		380.0
%		2.01		2.00		2.30		1.05		1.36

Mineral Export of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Cement Industrial Minerals										
Anhydrite										
- Unground	533,820	291.2	600,990	308.7	704,550	344.0	788,906	401.3	1,171,407	611.4
- Ground	160	0.5	200	0.6	120	0.4	300	1.1	-	-
Gypsum										
- Ground	1,758	6.3	2,333	6.9	2,138	7.9	2,578	10.3	4,106	15.8
- Unground	5,990,400	3,252.3	6,993,620	3,572.8	7,753,028	3,791.7	8,117,121	4,151.4	8,186,862	4,342.0
Total		3,550.3		3,889.0		4,144.0		4,564.1		4,969.2
%		17.38		15.01		14.16		15.19		17.75
Ceramic Industrial Minerals										
Ball clay	25,743	122.5	30,316	146.3	15,205	68.6	13,591	66.9	19,733	87.7
Dolomite										
- Ground	1,644	1.4	102	0.5	89	0.4	165	0.7	3,129	0.9
- Unground	840,208	264.5	1,368,198	410.9	1,181,260	343.8	1,003,160	313.0	866,630	292.5
Feldspar										
- Potassium (ground)	-	-	-	-	72	0.2	-	-	-	-
- Sodium (ground)	376,003	289.1	383,181	317.6	608,297	449.0	717,565	603.0	735,693	596.0
- Sodium (unground)	-	-	66,300	50.9	8,200	3.6	-	-	-	-
Kaolin										
- Filler	-	-	-	-	-	-	-	-	400	2.5
- Unwashed	4,200	0.1	-	-	21	0.1	-	-	-	-
- Washed	4,902	20.5	5,629	24.5	8,636	37.0	9,488	58.7	11,489	53.1
Quartz (ground)	300	1.1	-	-	-	-	-	-	-	-
Total		699.2		950.7		902.7		1,042.3		1,032.7
%		3.42		3.67		3.09		3.47		3.69

Mineral Export of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Industrial Rock										
Granite (industrial rock)	-	-	-	-	-	-	8,500	4.0	331,474	85.9
Gravel (industrail rock)	921	3.6	938	2.9	685	2.0	489	1.9	626	2.4
Limestone (industrial rock-construction)	1,218,329	487.7	256,548	88.5	329,743	132.1	319,765	110.6	475,446	185.9
Total		491.3		91.4		134.1		116.5		274.2
%		2.40		0.35		0.46		0.39		0.98
Other Industrial Minerals										
Barite chemical grade (ground)	17,008	34.4	12	0.1	2,952	24.0	4,091	39.9	5,535	43.3
Fluorite (metallurgical grade)										
- Metallurgical grade-ground	-	-	-	-	-	-	-	-	1,450	7.8
- Metallurgical grade-unground	-	-	-	-	-	-	-	-	1,120	6.0
- Metallurgical grade	-	-	-	-	-	-	26	0.2	-	-
Limestone (industrial rock-others)	2,669	4.3	1,687	3.5	1,479	3.4	4,859	15.0	2,016	7.0
Pyrophyllite	2,643	8.6	2,578	7.2	9,164	25.2	5,976	16.3	5,896	17.5
Total		47.3		10.8		52.6		71.4		81.6
%		0.23		0.04		0.18		0.24		0.29
Grand Total		**20,425.9**		**25,913.2**		**29,261.9**		**30,055.6**		**27,993.6**

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

Mineral Consumption of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Mineral Fuels and Energy										
Lignite	17,842,528	15,376.6	18,117,685	17,393.0	20,256,989	19,446.7	18,198,546	17,470.6	18,926,159	18,169.1
Total		15,376.6		17,393.0		19,446.7		17,470.6		18,169.1
%		35.67		33.99		36.45		34.79		35.39
Iron and Ferro Alloy										
Iron ore	96,500	120.1	-	-	-	-	-	-	-	-
Manganese (metallurgical grade)	11,500	33.4	54,415	157.8	-	-	1,118	4.3	3,575	18.2
Total		153.5		157.8		-		4.3		18.2
%		0.35		0.31		-		0.01		0.03
Base Metals										
Antimony ore	-	-	56	1.2	-	-	-	-	-	-
Tin										
- Tin metal	2,603	1,216.5	3,707	2,346.8	3,321	2,648.3	3,321	2,176.1	3,012	2,044.3
- Tin-lead alloy	697	n.a.	1,037	n.a.	985	n.a.	833	n.a.	-	n.a.
Zinc										
- Zinc alloy	24,045	1,517.6	30,873	2,380.1	36,253	2,746.8	34,735	2,324.3	32,493	2,134.8
- Zinc metal	55,817	3,205.9	61,142	4,390.3	54,410	3,802.8	51,960	3,266.0	33,168	2,039.5
Total		5,940.0		9,118.4		9,197.9		7,766.4		6,218.6
%		13.78		17.82		17.24		15.46		12.11
Precious Metals and Precious Stone										
Gem stone (unit : gram)	610	n.a.	240	n.a.	-	-	-	-	-	-
Total		n.a.		n.a.		-		-		-
%		-		-		-		-		-

Mineral Consumption of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Cement Industrial Minerals										
Anhydrite	-	-	32,634	16.5	3,240	1.6	25,150	12.4	-	-
Cement clay (industeial rock)	4,876,744	438.9	6,833,705	615.0	6,525,005	587.3	1,622,039	145.9	3,793,366	341.4
Gypsum (unground)	2,363,350	1,312.2	3,327,023	1,713.8	3,240,627	1,604.1	3,577,011	1,770.6	3,990,108	2,052.4
Limestone	54,882,205	6,585.9	60,614,383	7,273.7	62,530,873	7,503.7	63,783,890	7,654.1	65,731,000	7,887.7
Marl	86,550	7.4	69,550	5.9	69,000	5.9	113,100	9.6	13,300	1.1
Shale	4,078,561	509.8	4,126,822	515.9	4,343,767	543.0	4,698,855	587.4	4,028,571	503.6
Total		8,854.2		10,140.8		10,245.6		10,180.0		10,786.2
%		20.54		19.82		19.20		20.27		21.01
Ceramic Industrial Minerals										
Ball clay	221,472	121.8	253,292	139.3	324,283	178.4	227,150	124.9	328,729	180.8
Ceramic clay	226,849	124.8	233,286	128.3	276,466	152.1	67,847	37.3	138,723	76.3
Dolomite	786,973	275.4	722,216	252.8	1,194,362	418.0	970,750	339.8	1,163,580	407.3
Feldspar										
- Potassium (ground)	52	0.1	-	-	-	-	-	-	-	-
- Potassium (unground)	2,906	4.9	3,330	5.7	13,935	23.7	2,618	4.5	1,856	3.1
- Sodium (ground)	170,723	239.0	171,233	239.7	165,403	231.6	162,716	227.8	172,043	240.8
- Sodium (unground)	139,750	97.8	239,877	167.9	214,211	150.0	175,272	122.7	100,401	70.3
Glass sand	355,133	124.3	364,215	127.5	196,778	68.9	393,269	137.6	568,904	199.1

Mineral Consumption of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Ceramic Industrial Minerals										
Kaolin										
- Filler	3,774	7.2	3,837	7.3	4,029	7.7	300	0.6	-	-
- Unwashed	471,121	181.4	404,635	155.8	634,639	244.3	962,495	370.6	574,731	221.3
- Washed	135,265	129.9	165,187	158.6	148,741	142.8	154,594	148.4	143,966	128.7
Quartz										
- Ground	2,494	1.9	2,908	2.2	4,706	3.5	3,237	2.4	2,737	2.1
- Unground	4,250	3.2	29,433	22.1	64,300	48.2	47,190	35.4	66,560	49.9
Total		1,311.7		1,407.2		1,669.2		1,552.0		1,579.7
%		3.04		2.75		3.13		3.09		3.08
Dimension Stone										
Gneiss	46	0.2	100	0.4	60	0.2	40	0.2	125	0.5
Granite	6,102*	31.1	6,053*	30.9	6,069*	30.9	5,383*	27.5	4,210*	24.8
Limestone	41	0.1	34	0.1	12	0.0**	60	0.1	135	0.3
Marble	68,994*	255.3	182,996*	677.1	128,512*	475.5	26,457*	97.9	32,920*	128.4
Sand stone	640	0.4	2,642	1.8	2,883	2.0	1,498	1.0	2,415	1.7
Travertine	2,910	5.8	1,720	3.4	900	1.8	900	1.8	-	-
Total		292.9		713.7		510.4		128.5		155.7
%		0.68		1.39		0.96		0.26		0.30

Mineral Consumption of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Industrial Rock										
Andesite	765,806	103.4	1,230,985	166.2	799,192	107.9	918,429	123.9	1,018,830	137.5
Basalt	10,878,292	1,468.6	12,164,953	1,642.3	10,985,713	1,483.1	10,450,773	1,410.9	10,228,376	1,380.8
Granite	4,865,279	656.8	4,199,593	566.9	5,013,445	676.8	5,293,829	714.7	7,601,333	1,026.2
Grawacke	765,450	80.4	914,307	96.0	934,171	91.1	810,849	85.1	769,942	80.8
Limestone	62,552,086	6,567.9	69,205,206	7,266.5	71,141,814	7,469.9	78,234,119	8,214.6	86,400,163	9,072.0
Marble (fragment)	851,561*	191.6	1,078,912*	350.6	535,439*	174.0	221,766*	72.1	484,188*	157.4
Perlite	11,350	8.0	11,634	8.2	13,796	9.7	12,687	7.7	14,293	10.1
Quartz	-	-	200	0.0**	15,576	1.6	194,460	20.4	226,585	23.8
Rhyolite	243,270	25.5	334,891	35.2	647,913	68.0	609,717	64.0	861,707	90.5
Sand stone	116,885	11.7	187,048	18.7	301,811	30.2	322,860	32.3	316,637	31.7
Total		9,113.9		10,150.6		10,112.3		10,745.7		12,010.8
%		21.14		19.84		18.95		21.40		23.39
Other Industrial Minerals										
Barite										
- Chemical grade (ground)	49	0.3	-	-	-	-	-	-	-	-
- Drilling mud (ground)	-	-	-	-	-	-	13,956	54.4	21,707	84.5
- Unground	10,420	15.5	9,334	13.9	21,229	31.5	-	-	-	-
Bentonite	10,000	6.0	10,000	6.0	40,000	24.0	30,000	18.0	150	0.1
Calcite	477,732	94.1	578,500	113.9	439,759	86.6	803,377	158.3	839,246	165.3
Diatomite	5,730	5.2	7,625	6.9	11,300	10.2	27,060	24.4	-	-
Fluorite (metallurgical grade)	7,622	30.9	1,412	5.7	2,832	11.5	1,423	5.9	48	0.3

Mineral Consumption of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Other Industrial Minerals										
Limestone	3,266,563	392.0	3,383,776	406.1	4,304,560	516.6	5,137,747	616.5	5,816,898	698.0
Phosphate	12,506	5.2	2,316	1.0	344	0.1	1,799	0.7	264	0.1
Pyrophyllite	5,630	2.0	2,205	0.8	5,300	1.9	33,000	11.6	26,000	9.1
Rock salt	1,380,363	1,518.4	1,396,015	1,535.6	1,351,073	1,486.2	1,344,162	1,478.6	1,312,516	1,443.8
Talc (unground)	488	0.3	647	0.4	3,024	1.8	5,732	3.4	7,465	4.5
Total		2,069.9		2,090.3		2,170.4		2,371.8		2,405.7
%		4.80		4.08		4.07		4.72		4.69
Grand Total		**43,112.7**		**51,171.8**		**53,352.5**		**50,219.3**		**51,344.0**

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

Mineral Import of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Mineral Fuels and Energy										
Anthracite	677,522	2,209.5	367,817	1,539.6	210,701	1,407.3	138,064	808.1	101,683	570.0
Bituminous coal	7,066,802	16,445.4	6,619,170	15,548.3	4,484,690	13,077.7	7,326,828	19,864.9	8,308,880	21,464.0
Coke	117,544	1,224.2	208,729	2,922.0	108,164	1,667.5	36,019	647.6	39,090	515.7
Lignite	23	0.5	79	1.2	15	0.3	481	16.2	4,870	24.8
Peat	6,237	51.6	7,770	64.7	9,644	81.7	8,239	69.9	9,182	79.7
Coal Solid Fuels from Coal	8,520,470	17,003.1	9,700,720	19,286.5	11,459,285	25,973.6	152,025,749	25,297.6	9,559,821	19,086.6
Total		36,934.3		39,362.3		42,208.2		46,704.3		41,740.8
%		67.65		70.11		71.35		74.30		75.27
Iron and Ferro Alloy										
Chromite ore	1,140	14.8	2,785	37.6	2,202	40.4	3,053	56.4	2,739	40.1
Cobalt ore	0*	0.1	-	-	-	-	-	-	-	-
Columbite	123	95.8	-	-	196	81.0	30	26.7	117	88.5
Iron ore	192,062	509.9	457,508	1,689.8	161,427	770.2	16,217	69.8	5,774	41.6
Iron Pyrites	189	3.4	314	4.2	230	3.1	299	3.5	278	3.2
Manganese ore	50	1.6	4,530	17.8	18,633	42.8	24,282	52.8	18,017	38.3
Molybdenite ore	4,771	500.4	9,864	1,627.7	10,420	1,406.1	8,611	922.2	7,144	426.1
Nickel ore	1	0.1	0*	0.1	4	4.2	0.1	0.2	-	-

Mineral Import of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Iron and Ferro Alloy										
Tungsten										
- Scheelite	-	-	-	-	-	-	-	-	0*	0.0**
- Wolfram	8	0.7	7	0.1	39	2.9	21	1.8	5	1.3
- Other tungsten	-	-	0*	0.0**	0*	0.0**	-	-	-	-
Total		1,126.8		3,377.3		2,350.7		1,133.4		639.1
%		2.06		6.02		3.97		1.8		1.2
Base Metals										
Aluminium ore	31,519	297.1	32,051	270.3	32,736	284.9	29,077	289.4	42,327	317.9
Antimony ore	1,496	23.8	4,356	134.6	8,803	263.1	6,949	145.2	8,290	218.6
Copper	25	0.6	374	4.9	352	4.1	1,735	7.4	6,666	37.3
Lead ore	0.2	0.0**	283	5.5	32	0.7	2	0.0**	0*	0.0**
Tin ore	17,985	4,272.0	3,432	685.0	2,716	257.2	2,842	397.0	648	280.4
Zinc ore	148,441	1,845.4	174,586	3,781.4	125,818	3,273.4	139,625	3,090.1	119,896	2,451.5
Total		6,438.9		4,881.7		4,083.4		3,929.1		3,305.7
%		11.80		8.69		6.90		6.25		5.96
Precious Metals and Precious Stone										
Emery	3,900	47.2	4,812	53.7	4,804	52.7	32,712	115.7	7,093	74.3
Silver ore	13	0.6	25	1.3	19	1.7	-	-	12	1.2
Total		47.8		55.0		54.4		115.7		75.5
%		0.09		0.10		0.09		0.18		0.14

Mineral Import of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Light Metals and Rare Earth										
ilmenite ore	125	3.1	63	1.5	73	3.3	197	13.6	78	4.0
Niobium and Vanadium ore	10,773	38.0	11,863	1,101.8	8,075	686.1	13,165	1,602.7	12,810	1,656.4
Titanium ore										
- Rutile	7,331	68.5	7,276	77.9	6,684	181.5	5,492	460.1	3,991	220.3
- Leucoxene	4,535	122.9	8,080	215.2	3,389	104.6	3,461	265.6	2,540	128.5
- Ilmenite	880	8.1	840	8.1	680	8.2	900	21.2	900	17.2
- Other Titanium ore	319	5.8	1,003	27.7	1,035	67.3	1,044	22.1	1,161	15.0
Thorium ore	-	-	0*	0.1	20,069	114.8	1	0.1	-	-
Tantalite	-	-	-	-	483	946.8	652	675.3	42	77.0
Xenotime	-	-	-	-	-	-	60	0.7	-	-
Zirconium ore	18,138	266.8	47,451	493.1	46,633	1,351.6	12,334	615.0	35,696	506.8
Total		513.2		1,925.4		3,464.2		3,676.4		2,625.2
%		0.94		3.43		5.86		5.85		4.73
Cement Industrial Minerals										
Anhydrite	4	0.0**	25	0.7	0*	0.0**	0*	0.0**	19	0.4
Gypsum	452	8.5	522	9.0	614	9.9	659	11.4	488	8.3
Limestone	4,045	3.8	3,256	4.3	6,842	14.6	3,421	1.9	3,057	3.3
Total		12.3		14.0		24.5		13.3		12.0
%		0.02		0.02		0.04		0.02		0.02

Mineral Import of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Ceramic Industrial Minerals										
Andalusite, Kyannite and Sillimanite	2,304	33.8	2,856	41.5	3,555	47.5	2,227	29.8	4,744	53.9
Attapulgite	7	0.6	146	1.1	412	3.2	-	-	-	-
Ball Clay	20,508	64.2	6,592	42.4	5,463	33.8	-	-	-	-
Dolomite	595	8.5	977	11.6	1,224	12.2	940	10.5	853	9.5
Feldspar										
- Potassium	28,996	89.5	25,928	81.4	33,342	104.6	35,505	115.1	30,395	94.6
- Sodium	7,850	19.0	3,010	11.1	3,772	13.8	2,140	10.4	5,871	20.9
- Other Feldspar	3,590	22.3	3,891	24.0	3,935	22.1	3,900	28.0	5,612	35.9
Kaolin										
- Ceramic	8,410	102.0	13,880	147.3	16,907	141.9	14,965	117.9	17,240	133.2
- Paper	4,534	54.9	5,918	62.5	4,423	42.8	4,404	41.1	3,166	29.6
- Others	68,336	405.7	65,956	536.9	65,691	543.5	68,868	663.2	69,061	639.9
Lucite, Nepheline and Nepheline Syenit	1,805	16.8	1,489	15.1	1,535	14.5	1,347	13.3	1,464	13.7
Mullite	902	15.5	1,771	26.1	1,671	23.3	1,661	23.6	2,115	29.2
Quartz	2,595	10.9	2,572	23.5	3,127	14.0	3,082	15.6	3,248	17.7
Silica sand	31,013	106.2	28,195	94.6	27,943	120.3	51,698	192.5	110,329	234.9
Total		949.9		1,119.1		1,137.5		1,260.9		1,313.0
%		1.74		2.00		1.92		2.01		2.37

Mineral Import of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Dimension Stone										
Ecaussine	11	0.1	2	0.0**	3	0.7	-	-	-	-
Marble	39,806	313.4	45,010	322.0	49,532	364.0	44,094	386.5	37,128	348.0
Granite	137,656	553.7	138,476	476.9	136,495	482.9	136,741	491.3	132,200	491.8
Travertine	0.1	0.0**	0*	0.0**	0.1	0.1	0*	0.0**	0*	0.0**
Sandstone	738	12.0	1,508	26.1	473	3.6	768.0	10.9	220.0	2.6
Slate	-	-	346	4.4	21	0.3	93	0.6	117	0.8
Total		879.2		829.4		851.6		889.3		843.2
%		1.61		1.48		1.44		1.41		1.52
Industrial Rock										
Basalt	17,091	98.8	268,767	102.3	57,184	103.5	39,126	113.2	25,392	163.8
Flint	1,663	13.7	6,503	15.2	45,200	22.9	1,766	12.7	1,345	10.9
Pumice stone	4,213	44.8	5,286	56.5	5,077	58.6	5,275	65.9	5,475	58.4
Vermiculite, Perlite and Chlorites	1,192	9.7	1,944	14.9	3,133	28.8	4,901	39.9	3,859	34.5
Total		167.0		188.9		213.9		231.7		267.6
%		0.31		0.34		0.36		0.37		0.48

Mineral Import of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Other Industrial Minerals										
Apatile										
- Ground	1,815	25.8	3,140	39.5	2,705	17.8	1,763	7.1	1,292	6.5
- Unground	-	-	-	-	2	0.0**	0*	0.0*	-	-
Asbestos	102,739	1,432.7	79,250	1,121.5	81,411	1,111.9	58,037	839.5	53,130	826.9
Barite	57,452	178.7	78,862	274.1	94,650	399.2	104,668	509.8	67,537	285.9
Bentonite	42,429	272.5	65,096	408.2	103,555	505.9	83,377	555.1	103,228	639.3
Calcite	-	-	-	-	-	-	12	0.1	-	-
Chalk	9	0.7	31	1.2	62	1.6	53	1.8	67	1.4
Fireclay	67	1.1	4,688	61.6	1,621	20.6	729	9.8	618	10.6
Fluorite	472	10.8	508	9.8	1,022	18.0	555	12.1	578	12.2
Kieserite	8,189	63.2	2,847	17.1	8,062	57.6	11,172	68.0	10,444	59.0
Epsomite	-	-	-	-	-	-	-	-	-	-
Mica	2,991	80.7	5,504	125.3	4,860	128.8	4,577	140.7	4,504	119.6
Orpiment	-	-	0*	0.0**	1	0.0**	20	1.0	163	1.0
Phosphate										
- Ground	11,670	66.6	356	3.0	71	0.7	0*	0.0*	0*	0.0**
- Unground	-	-	11,000	25.0	1	0.1	-	-	-	-
Graphite	898	48.0	1,372	75.9	1,397	98.2	1,398	113.2	2,121	118.1
Magnesite	2,028	40.2	3,530	48.9	4,429	62.7	4,867	52.6	7,073	92.5
Steatite	2,632	14.1	2,295	11.6	1,451	10.1	2,014	22.4	927	12.0

Mineral Import of Thailand 2009 - 2013

Quantity : Tonnes
Value : Million Baht

Mineral	2009		2010		2011		2012		2013	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Other Industrial Minerals										
Potash	0*	0.0**	-	-	-	-	-	-	-	-
Pyrophyllite	-	-	-	-	-	-	56	1.0	42	0.7
Rock salt	2	0.0**	1	0.0**	5	0.1	-	-	-	-
Sulphur	57,076	196.3	132,199	713.9	125,722	937.7	102,175	760.4	137,587	685.0
Talc	100,919	5,089.2	135,219	1,452.9	126,254	1,380.8	138,694	1,786.2	143,049	1,751.1
Witherite	450	4.1	501	4.8	1,149	16.6	1,500	21.6	325	4.3
Total		7,524.7		4,394.3		4,768.4		4,902.4		4,626.1
%		13.78		7.83		8.06		7.80		8.34
Grand Total		**54,594.1**		**56,147.4**		**59,156.8**		**62,856.6**		**55,448.2**

:- 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 2009-2013

unit: Thousand Baht

Mineral	2009	2010	2011	2012	2013
Andesite (Industrial rock)	3,933.00	7,318.19	6,663.09	5,903.14	4,762.30
Anhydrite	11,969.62	12,399.08	13,914.01	18,175.13	20,339.39
Antimony	182.07	1,104.75	690.71	257.21	265.88
Ball clay	7,922.92	8,172.66	7,656.37	5,518.41	7,492.48
Barite					
- Chemical grade (ground)	208.26	231.66	258.66	389.95	301.14
- Drilling mud (ground)	-	-	-	1,090.60	1,939.09
- Unground	5,351.24	3,838.87	2,835.16	4,471.83	6,062.26
Basalt (Industrial rock)	57,733.48	67,462.88	66,577.69	69,492.32	56,871.98
Bentonite	240.00	240.00	1,200.00	3,120.00	3.60
Calcite	4,101.28	5,683.93	6,673.37	6,874.60	7,102.49
Ceramic clay	5,170.92	9,861.71	10,411.74	9,513.17	2,588.63
Cement clay	8,410.87	24,984.02	33,232.04	19,520.73	9,709.27
Conglomerate (Industrial rock)	127.18	298.60	345.36	16.80	0.00
Copper Ore	262.89	5,329.39	4,217.55	4,954.11	0.00
Diatomite	103.14	137.25	203.40	730.62	0.00
Dolomite	27,271.51	36,937.79	38,103.36	33,152.83	32,301.20
Feldspar					
- Potassium (ground)	-	24.00	-	96.00	145.92
- Potassium (unground)	522.64	212.84	1,180.82	189.18	736.89
- Sodium (ground)	9,199.40	9,709.42	7,155.24	10,591.08	10,936.02
- Sodium (unground)	11,325.08	9,842.18	17,424.37	22,526.08	20,201.79
Fluorite					
- Metallurgical grade	4,027.81	1,285.60	2,674.31	5,949.73	8,364.24
- Acid grade	-	-	-	114.00	0.00
Garnet	12.00	12.00	12.00	-	12.00

Mineral Royalty of Thailand 2009-2013

unit: Thousand Baht

Mineral	2009	2010	2011	2012	2013
Gem stone	141.00	-	-	-	-
Glass sand	12,452.55	9,559.81	2,555.22	6,630.97	8,152.50
Gneiss (Dimension stone)	3.20	16.00	16.00	24.00	25.60
Gold Ore	363,281.71	387,933.06	419,771.42	828,741.64	518,734.38
Granite					
- Dimension stone	1,449.02	1,246.63	1,131.02	807.59	652.16
- Industrial rock	28,691.83	27,005.11	30,038.53	30,695.23	44,447.66
Graywacke	1,781.61	2,408.26	3,108.08	3,150.29	3,119.61
Gypsum	192,455.57	214,696.61	216,150.76	231,672.08	255,417.03
Ilmenite	563.94	-	58.42	69.20	63.61
Iron Ore	38,622.58	76,185.71	31,556.92	16,663.98	20,154.56
Kaolin					
- Filler	616.24	881.34	1,001.60	1,164.07	1,259.59
- Unwashed	8,569.13	7,334.57	12,770.39	15,161.50	8,836.54
- Washed	4,077.01	4,787.02	5,121.76	5,231.61	5,021.96
Lead Ore	7,568.27	-	-	-	-
Lignite	601,707.09	713,015.84	769,432.59	698,853.48	726,748.80
Limestone					
- Dimension stone	3.12	2.88	2.16	0.96	1.20
- Industrial rock-construction	302,790.69	316,833.66	307,195.92	370,631.85	366,613.66
- Industrial rock-cement	477,311.26	518,157.58	519,311.47	532,792.66	519,020.10
- Industrial rock-others	16,142.47	17,727.08	21,026.40	25,421.63	29,442.94
Manganese					
- Metallurgical grade	-	170.59	-	-	499.05
- Metallurgical-others	1,332.08	4,266.99	-	162.01	693.25

Mineral Royalty of Thailand 2009-2013

unit: Thousand Baht

Mineral	2009	2010	2011	2012	2013
Marble					
- Dimension stone	1,377.36	1,655.36	1,165.93	1,505.06	1,158.88
- Fragment	21,587.55	16,554.04	5,564.77	4,064.86	6,811.09
Marl	328.95	255.85	262.14	452.20	348.16
Monazite	-	282.50	83.73	50.47	156.49
Perlite (Industrial rock)	379.10	537.18	474.32	520.86	403.63
Phosphate	25.21	117.31	90.52	36.61	101.62
Pyrophyllite	1,363.43	225.05	152.74	490.00	424.54
Quartz	275.73	2,154.38	2,938.82	3,084.48	2,695.14
Rhyolite (Industrial rock)	1,021.73	1,439.41	1,827.48	2,560.81	3,619.17
Rock salt	61,273.98	62,260.00	56,584.00	59,356.00	44,352.00
Rutile	246.54	-	25.54	-	-
Sand Stone					
- Dimension stone	36.75	75.29	78.88	49.71	51.63
- Industrial rock	481.36	721.08	1,265.28	1,438.04	1,573.68
Scheelite	910.20	1,653.54	1,062.41	1,170.87	956.69
Shale (Industrial rock-cement)	35,912.33	36,536.86	40,500.82	41,908.04	35,305.14
Silver Ore	26,243.12	36,175.78	66,052.69	98,992.78	74,524.46
Struverite	87.56	78.81	2,622.15	109.33	1,530.00
Talc	12.10	14.98	50.69	142.85	186.62
Tin	4,661.27	11,912.33	20,529.68	10,389.14	5,404.14
Tin Slag (Ta2O5<13%)	31.49	27.93	-	1.74	0.00
Tin Slag (Ta2O5<5%)	-	-	166.01	-	-
Travertine (Dimension)	303.36	189.60	73.60	106.40	0.00
Wolfram	697.02	1,690.58	816.68	3.47	203.75
Xenotime	47.44	60.83	149.98	-	72.72

Mineral Royalty of Thailand 2009-2013

unit: Thousand Baht

Mineral	2009	2010	2011	2012	2013
Zinc					
- Metal	45,079.69	38,191.39	33,331.97	42,703.11	32,314.07
- Ore	344.21	-	-	-	-
Zircon	28.10	-	45.35	-	-
Total	**2,420,391.25**	**2,720,125.64**	**2,797,594.06**	**3,259,659.11**	**2,911,234.42**