

Statistics Report

No. ICC 1/2558

Mineral Statistics of Thailand

2010 - 2014

Statistics Group

Information Technology and Communication Center

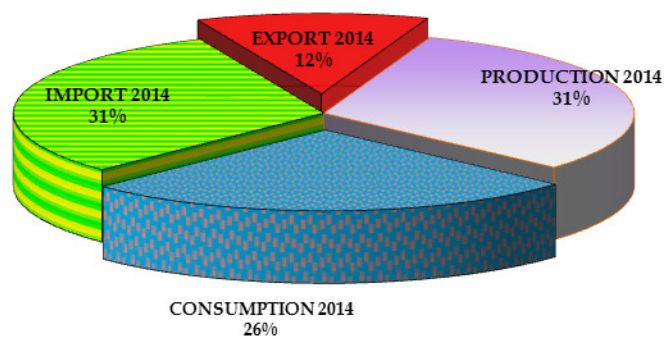
Department of Primary Industries and Mines

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Information Technology and Communication Center
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A N D E S I T E

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Phetchabun	447,104	307,040	395,904	455,896	421,168
Uttaradit	761,131	638,547	464,435	449,038	388,810
Northeastern Region					
Loei	1,000	-	-	-	-
Central Region					
Sara Buri	-	-	149,351	204,204	142,537
Total Production	1,209,235	945,587	1,009,690	1,530,306	952,515
Value (Million Baht)	163.3	127.7	136.3	149.7	128.6
<u>Consumption</u>					
Total Consumption	1,230,985	799,192	918,429	1,018,830	974,721
Value (Million Baht)	166.2	107.9	123.9	137.5	131.6

ANHYDRITE

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Nakhon Sawan	860	3,240	1,000	-	-
Southern Region					
Nakhon Si Thammarat	28,700	49,530	36,000	-	7,260
Surat Thani	506,560	561,378	820,172	1,264,077	969,558
Total Production	536,120	614,148	857,172	1,264,077	976,818
Value (Million Baht)	279.3	304.0	424.3	648.7	565.5
<u>Export</u>					
1. Ground					
Asia					
Japan	200	120	300	-	-
Total Export	200	120	300	-	-
Value (Million Baht)	0.6	0.4	1.1	-	-
2. Unground					
Asia					
China	4,070	-	-	-	-
India	37,650	45,000	33,950	159,200	35,000
Indonesia	-	8,000	-	-	-
Japan	344,010	383,100	437,785	504,282	547,940
Korea, South	140,160	195,300	231,116	369,550	391,111
Malaysia	57,100	49,650	72,055	128,625	135,100
Philippines	-	-	-	-	2,000
Vietnam	18,000	23,500	14,000	9,750	-
Total Export	600,990	704,550	788,906	1,171,407	1,111,151
Value (Million Baht)	308.7	344.0	401.3	545.6	630.0

	Tonnes				
	2010	2011	2012	2013	2014
<u>Consumption</u>					
Total Consumption	32,634	3,240	25,150	-	142
Value (Million Baht)	16.5	1.6	12.4	-	0.1
<u>Import</u>¹					
Total Import	25	0**	0**	19	-
Value (Million Baht)	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

	2010	2011	2012	2013	2014
<u>Import</u>¹					
Total Import	367,817	210,701	138,064	101,683	184,231
Value (Million Baht)	1,539.6	1,407.3	808.1	570.0	833.9

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

ANTIMONY

Tonnes

		2010	2011	2012	2013	2014
<u>Production</u>						
Southern Region						
Satun	Ore	738	56	-	-	-
	Low grade	-	172	43	-	-
Total Production	Ore	738	56	-	-	-
	Low grade	-	172	43	-	-
Value (Million Baht)	Ore	21.3	1.6	-	-	-
	Low grade	-	n.a.	n.a.	-	-
<u>Export</u>						
Ore						
Asia						
China		1,310	5,323	5,130	5,523	2,023
Hong Kong		404	1,884	1,000	-	25
India		-	-	-	27	-
Korea, South		-	100	-	-	-
Laos		34	-	-	-	-
Malaysia		-	24	50	-	-
Myanmar		-	-	-	3	0.2
Taiwan		-	50	23	-	38
Vietnam		-	-	65	592	1,425
Europe						
Belgium		-	-	-	-	25
Total Export		1,748	7,381	6,268	6,145	3,536
Value (Million Baht)		32.8	142.4	124.3	147.4	107.4
<u>Consumption</u>						
Total Consumption		56	-	-	-	-
Value (Million Baht)		1.2	-	-	-	-
<u>Import</u>¹						
Total Import		4,356	8,803	6,949	8,290	4,392
Value (Million Baht)		134.6	263.1	145.2	218.6	145.0

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

BALL CLAY

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Chiang Rai	34,595	3,600	5,480	46,400	-
Lampang	1,397,969	346,435	364,055	-	-
Central Region					
Prachin Buri	363	203	2,703	2,500	112
Sara Buri	80,840	74,120	74,900	61,882	120,500
Southern Region					
Nakhon Si Thammarat	-	690	210	1,405	2,470
Total Production	1,513,767	425,048	447,348	112,187	123,082
Value (Million Baht)	832.6	233.8	246.0	61.7	67.7
<u>Export</u>					
Asia					
Bangladesh	1	300	300	1,060	2,354
China	1,638	2,400	745	2,255	2,660
India	989	1,000	1,593	2,093	2,520
Indonesia	12,480	1,614	-	-	-
Korea, South	704	160	-	-	-
Malaysia	9,335	5,015	5,234	7,255	7,060
Philippines	600	128	344	-	-
Taiwan	288	-	-	-	-
Vietnam	4,280	4,588	5,375	7,070	8,920
Europe					
Germany	1	-	-	-	-
Total Export	30,316	15,205	13,591	19,733	23,514
Value (Million Baht)	146.3	68.6	67.0	87.7	190.5

Tonnes

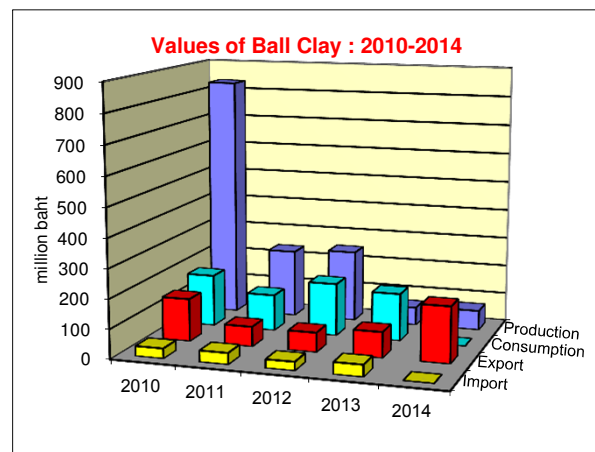
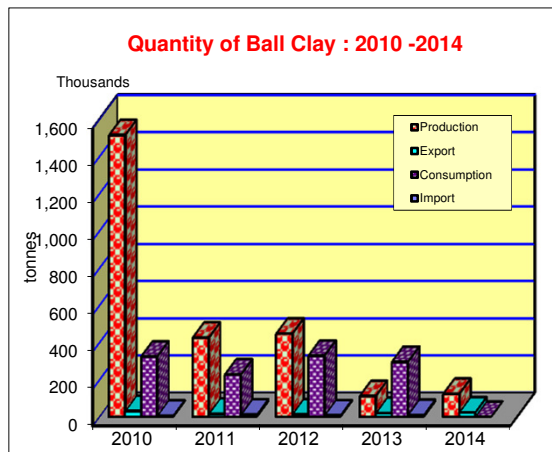
	2010	2011	2012	2013	2014
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Consumption

Total Consumption	253,292	324,283	227,150	328,729	295,379
Value (Million Baht)	139.3	178.4	124.9	180.8	162.5

Import¹

Total Import	6,592	5,523	11,006	6,932	9,710
Value (Million Baht)	42.4	34.2	38.7	29.5	40.3



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

B A R I T E

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
1. Ground (Chemical grade)					
Northeastern Region					
Loei	3,865	2,403	3,301	3,889	4,425
Total Production	3,865	2,403	3,301	3,889	4,425
Value (Million Baht)	22.6	14.1	19.3	22.8	25.9
2. Ground (Drilling Mud grade)					
Northern Region					
Phrae	-	-	14,200	40,693	48,540
Total Production	-	-	14,200	40,693	48,540
Value (Million Baht)	-	-	55.3	158.5	189.1
3. Unground					
Northern Region					
Phayao	1,800	-	-	-	-
Northeastern Region					
Udon Thani	-	45,000	-	-	-
Southern Region					
Nakhon Si Thammarat	27,800	20,300	46,998	62,855	81,996
Total Production	29,600	65,300	46,998	62,855	81,996
Value (Million Baht)	44.0	96.9	69.8	93.3	121.8

	Tonnes				
	2010	2011	2012	2013	2014
<u>Export</u>					
1. Ground (Chemical grade)					
Africa					
Egypt	-	-	-	-	22
Mauritius	-	25	-	-	-
South Africa	-	21	84	11	-
Asia					
China	-	-	-	-	4
Hong Kong	-	40	60	60	80
India	-	-	-	-	21
Indonesia	-	68	245	180	1,049
Japan	-	935	530	381	454
Jordan	-	20	-	70	88
Korea, South	-	175	272	168	147
Malaysia	12	338	670	2,359	2,404
Singapore	-	105	250	280	220
Taiwan	-	357	281	167	377
U.A.E.	-	-	87	154	176
Vietnam	-	200	557	148	832
Australia / Oceania					
Australia	-	624	1,032	1,440	768
New Zealand	-	44	-	117	48
Europe					
Netherlands	-	-	24	-	-
Total Export	12	2,952	4,092	5,535	6,690
Value (Million Baht)	0.1	24.0	39.9	43.3	52.5
2. Ground (Drilling Mud grade)					
Asia					
Malaysia	-	-	-	-	756
Singapore	-	-	-	-	756
Total Export	-	-	-	-	1,512
Value (Million Baht)	-	-	-	-	8.5
3. Unground					
Asia					
Indonesia	-	-	-	-	40
Total Export	-	-	-	-	40
Value (Million Baht)	-	-	-	-	0.2

Tonnes

	2010	2011	2012	2013	2014
<u>Consumption</u>					
1. Ground (Drilling mud)	-	-	13,956	21,707	48,540
Value (Million Baht)	-	-	54.4	84.5	189.1
2. Unground	9,334	21,229	-	-	1,270
Value (Million Baht)	13.9	31.5	-	-	1.9
<u>Import¹</u>					
Total Import	78,862	94,650	104,668	67,537	65,236
Value (Million Baht)	274.1	399.2	509.8	285.9	202

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

B A S A L T

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northeastern Region					
Buri Ram	4,322,951	4,310,095	4,160,688	4,036,141	4,517,885
Nakhon Ratchasima	1,373,600	1,286,013	1,318,488	1,359,865	1,694,692
Si Sa Ket	438,856	133,072	-	-	-
Surin	4,480,852	3,826,236	3,289,275	2,867,249	5,919,373
Ubon Ratchathani	1,871,741	1,762,796	1,944,372	2,609,835	1,998,660
Central Region					
Trat	1,200	-	-	500	2,000
Total Production	12,489,201	11,318,212	10,712,823	10,873,590	14,132,610
Value (Million Baht)	1,686.0	1,527.9	1,446.2	1,467.9	1,907.9
<u>Consumption</u>					
Total Consumption	12,164,953	10,985,713	10,450,773	10,223,704	13,980,299
Value (Million Baht)	1,642.3	1,483.1	1,410.9	1,380.2	1,887.3
<u>Import</u>¹					
Total Import	268,767	57,240	39,126	25,392	25,937
Value (Million Baht)	102.3	104	113.2	163.8	166.5

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

BENTONITE

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Central Region					
Lop Buri	130	55,220	141,000	150	-
Total Production	130	55,220	141,000	150	-
Value (Million Baht)	0.1	33.1	84.6	0.1	-
<u>Consumption</u>					
Total Consumption	10,000	40,000	30,000	150	-
Value (Million Baht)	6.0	24.0	18.0	0.1	-
<u>Import¹</u>					
Total Import	65,096	103,555	83,377	103,228	101,284
Value (Million Baht)	408.2	505.9	555.1	639.3	665.3

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

CALCITE

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Lamphun	-	-	-	1,000	-
Uttaradit	10,330	3,200	-	-	-
Northeastern Region					
Nakhon Ratchasima	-	-	-	-	21,417
Central Region					
Lop Buri	683,424	783,050	865,800	840,746	970,564
Total Production	693,754	786,250	865,800	841,746	991,981
Value (Million Baht)	136.7	154.9	170.6	165.8	195.4
<u>Consumption</u>					
Total Consumption	578,500	439,759	803,377	839,246	975,020
Value (Million Baht)	113.9	86.6	158.3	165.3	192.1
<u>Import</u>¹					
Total Import	-	-	12	60	41
Value (Million Baht)	-	-	0.1	0.2	0.2

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

CEMENT CLAY

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Lampang	443,966	143,475	-	-	81,258
Nakhon Sawan	76,525	34,699	-	-	20,000
Northeastern Region					
Nakhon Ratchasima	2,709,729	272,360	58,406	758,081	872,665
Central Region					
Lop Buri	226,014	962,414	-	128,036	280,510
Prachin Buri	1,093,728	431,000	-	-	9,000
Sara Buri	2,849,061	4,130,813	5,948,633	1,381,108	1,963,455
Sing Buri	10,000	-	-	-	-
Southern Region					
Krabi	-	219,087	-	266,872	897,128
Nakhon Si Thammarat	841,800	2,378,036	-	-	-
Total Production	8,250,823	8,571,884	6,007,039	2,534,097	4,124,016
Value (Million Baht)	742.6	771.5	540.6	228.1	371.2
<u>Consumption</u>					
Total Consumption	6,833,705	6,525,005	1,622,039	3,793,366	4,452,240
Value (Million Baht)	615.0	587.3	145.9	341.4	407.9

C E R A M I C C L A Y

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Chiang Rai	12,044	37,173	-	-	-
Lampang	9,148	164,076	-	-	-
Northeastern Region					
Chaiyaphum	547,000	-	-	15,000	221,500
Nakhon Ratchasima	-	180,956	-	-	-
Central Region					
Sara Buri	188,470	21,924	60,327	62,358	91,463
Sing Buri	172,500	-	-	-	-
Total Production	929,162	404,129	60,327	77,358	312,963
Value (Million Baht)	511.0	222.3	33.2	42.6	172.1
<u>Consumption</u>					
Total Consumption	233,286	276,466	67,847	138,723	220,093
Value (Million Baht)	128.3	152.1	37.3	76.3	121.1

0.0* denoting the amount of less than 0.05 million baht

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

Tonnes

	2010	2011	2012	2013	2014
<u>Export</u>					
Asia					
China	-	-	-	-	50
Total Export	-	-	-	-	50
Value (Million Baht)	-	-	-	-	7.1
<u>Import (Columbite)¹</u>					
Total Import	-	196	30	117	10
Value (Million Baht)	-	81.0	26.7	88.5	5.5

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

C O P P E R

Tonnes

	2010	2011	2012	2013	2014
<u>Production (metal)</u>					
Northeastern Region					
Loei	723	525	721	0**	229
Total Production	723	525	721	0**	229
Value (Million Baht)	168.5	146.4	186.5	0.0*	52.3
<u>Export</u>					
1. Metal					
Asia					
Hong Kong	723	525	721	0**	229
Total Export	723	525	721	0**	229
Value (Million Baht)	168.5	146.4	186.5	0.0*	52.3
2. Dross					
Europe					
Belgium	44	-	-	-	8
Total Export	44	-	-	-	8
Value (Million Baht)	14.7	-	-	-	3.4
3. Powder					
Europe					
U.K	4	2	-	-	-
Total Export	4	2	-	-	-
Value (Million Baht)	1.2	0.7	-	-	-
<u>Import (ore)¹</u>					
Total Import	374	352	1,735	6,666	9,502
Value (Million Baht)	4.9	4.1	7.4	37.3	56.8

0** denoting the amount of less than 0.1 tonnes

0.0* denoting the amount of less than 0.05 million baht

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

D I A T O M I T E

Tonnes

	2010	2011	2012	2013	2013
<u>Production</u>					
Northern Region					
Lampang	7,100	38,130	8,500	-	-
Total Production	7,100	38,130	8,500	-	-
Value (Million Baht)	6.4	34.3	7.7	-	-
<u>Consumption</u>					
Total Consumption	7,625	11,300	27,060	-	-
Value (Million Baht)	6.9	10.2	24.4	-	-

D O L O M I T E

Tonnes

	2010	2011	2012	2013	2013
<u>Production</u>					
Northern Region					
Phetchabun	9,700	9,710	12,680	13,510	14,190
Phrae	4,800	2,380	3,873	4,653	4,792
Central Region					
Kanchanaburi	330,750	588,047	150,400	95,400	59,368
Southern Region					
Krabi	80,000	102,000	120,000	120,000	153,514
Phangnga	121,679	98,593	123,898	141,341	150,615
Songkhla	-	-	25,724	114,699	285,800
Surat Thani	1,838,467	1,752,370	1,938,937	1,613,533	1,608,207
Trang	66,594	3,665	233,485	384,000	195,000
Total Production	2,451,990	2,556,765	2,608,997	2,487,135	2,471,486
Value (Million Baht)	858.2	894.9	913.1	870.5	865.0
<u>Export</u>					
1. Ground					
Asia					
Bangladesh	6	30	30	616	1,354
Laos	6	-	-	-	-
Malaysia	-	-	-	20	-
Myanmar	-	-	-	-	1,500
Philippines	90	59	135	2,493	1,580
Total Export	102	89	165	3,129	4,434
Value (Million Baht)	0.5	0.4	0.7	0.8	1.1
2. Underground					
Asia					
India	572,130	452,620	167,110	347,480	588,415
Indonesia	-	-	-	-	8,300
Japan	789,140	728,640	836,050	519,150	553,750
Malaysia	128	-	-	-	7,385
Taiwan	-	-	-	-	90,000
Vietnam	6,800	-	-	-	-
Total Export	1,368,198	1,181,260	1,003,160	866,630	1,247,850
Value (Million Baht)	410.9	343.8	313.0	292.5	469.9

Tonnes

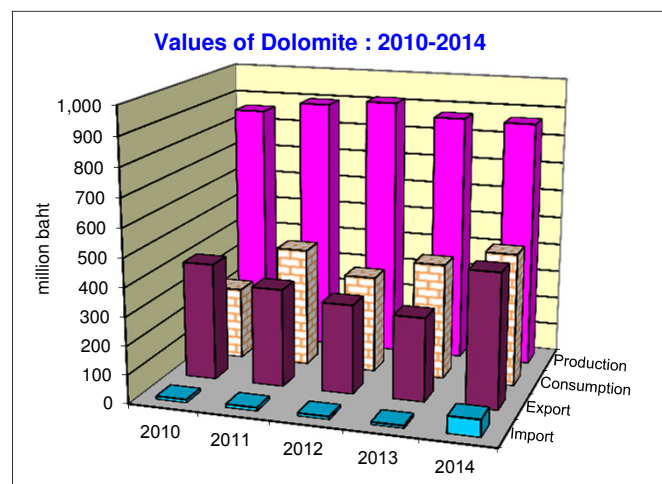
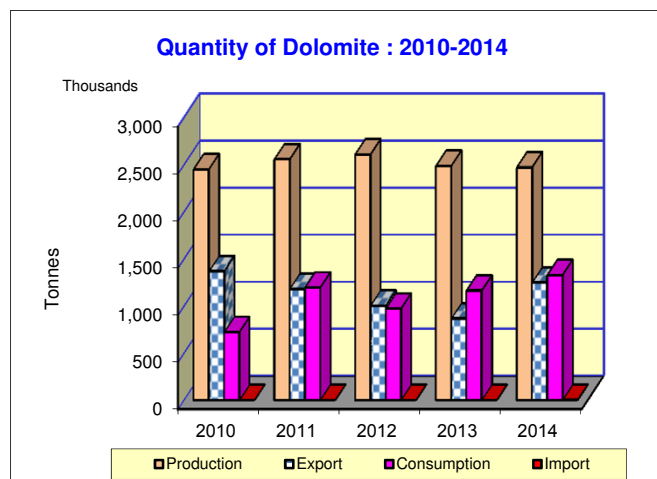
	2010	2011	2012	2013	2014
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Consumption

Total Consumption	722,216	1,194,362	970,750	1,163,580	1,328,785
Value (Million Baht)	252.8	418.0	339.8	407.3	465.1

Import¹

Total Import	977	1,224	940	853	3,137
Value (Million Baht)	11.6	12.2	10.5	9.5	59.9



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

F E L D S P A R

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
1. Potassium Feldspar (Unground)					
Central Region					
Kanchanaburi	8,920	138,500	2,000	3,000	11,000
Prachuap Khiri Khan	140	169	210	168	-
Southern Region					
Nakhon Si Thammarat	-	500	3,500	1,690	4,220
Total Production	9,060	139,169	5,710	4,858	15,220
Value (Million Baht)	15.4	236.6	9.7	8.3	25.9
2. Sodium Feldspar (Ground)					
Northern Region					
Tak	120	-	-	-	-
Total Production	120	-	-	-	-
Value (Million Bath)	0.2	-	-	-	-
3. Sodium Feldspar (Unground)					
Northern Region					
Tak	164,047	132,493	204,930	183,098	273,346
Central Region					
Kanchanaburi	920	640	630	500	900
Ratchaburi	90,900	98,350	71,253	108,700	92,402
Southern Region					
Nakhon Si Thammarat	376,853	670,500	818,200	775,500	1,031,560
Total Production	632,720	901,983	1,095,013	1,067,798	1,398,208
Value (Million Bath)	442.9	631.4	766.5	747.5	978.7

Tonnes

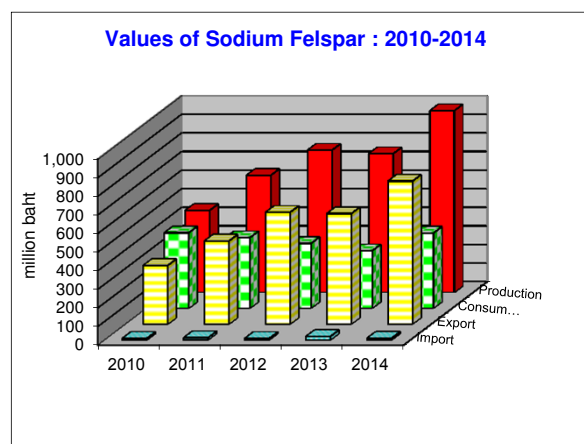
	2010	2011	2012	2013	2014
Export					
1. Potassium Feldspar (Ground)					
Asia					
Vietnam	-	72	-	-	-
Total Export	-	72	-	-	-
Value (Million Baht)	-	0.2	-	-	-
2. Sodium Feldspar (Ground)					
Asia					
Bangladesh	23,300	24,700	84,240	115,769	126,722
China	-	-	-	96	-
Hong Kong	62,900	-	-	-	-
India	15,800	56,800	57,200	39,386	25,700
Indonesia	60,452	71,189	114,008	113,228	171,716
Malaysia	108,732	186,903	191,130	111,411	98,910
Myanmar	-	14	-	3,600	-
Saudi Arabia	-	-	-	-	15,000
U.A.E.	87,537	243,874	212,770	321,230	369,500
Vietnam	24,461	24,817	37,217	30,973	46,574
Europe					
Belgium	-	-	-	-	28,950
North America					
Grenada	-	-	21,000	-	-
Total Export	383,181	608,297	717,565	735,693	883,072
Value (Million Baht)	317.6	449.0	603.0	596.0	770.5
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

	2010	2011	2012	2013	2014
<u>Consumption</u>					
1. Potassium Feldspar - Unground	3,330	13,935	2,618	1,856	9,950
Value (Million Baht)	5.7	23.7	4.5	3.1	15.3
2. Sodium Feldspar - ground	171,233	165,403	162,716	172,043	212,094
Value (Million Baht)	239.7	231.6	227.8	240.8	296.9
3. Sodium Feldspar - Unground	239,877	214,211	175,272	100,401	155,867
Value (Million Baht)	167.9	150.0	122.7	70.3	109.1

Import¹

1. Potassium Feldspar	25,928	33,342	35,505	30,395	36,000
Value (Million Baht)	81.4	104.6	115.1	94.6	117.6
2. Sodium Feldspar	3,010	3,772	2,140	5,871	2,807
Value (Million Baht)	11.1	13.8	10.4	20.9	11.6
3. Other Feldspar	3,891	3,935	3,900	5,612	8,275
Value (Million Baht)	24.0	22.1	28.0	35.9	53.6



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

F L U O R I T E

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Lamphun	694	4,393	7,602	2,432	4,590
Mae Hong Son	1,465	-	-	-	-
Phrae	63	700	2,000	-	-
Total Production	2,222	5,093	9,602	2,432	4,590
Value (Million Baht)	9.0	20.7	50.8	14.1	30.7
<u>Export</u>					
1. Metallurgical Grade					
Asia					
India	-	-	6	-	-
Japan	-	-	20	-	-
Total Export	-	-	26	-	-
Value (Million Baht)	-	-	0.2	-	-
2. Metallurgical Grade (Ground)					
Asia					
Hong Kong	-	-	-	-	150
India	-	-	-	760	2,985
Korea, South	-	-	-	-	150
Taiwan	-	-	-	690	-
Total Export	-	-	-	1,450	3,285
Value (Million Baht)	-	-	-	7.8	24.9
3. Metallurgical Grade (Unground)					
Asia					
Hong Kong	-	-	-	-	175
India	-	-	-	60	105
Indonesia	-	-	-	-	200
Korea, South	-	-	-	-	260
Taiwan	-	-	-	910	850
Europe					
Turkey	-	-	-	150	-
Total Export	-	-	-	1,120	1,590
Value (Million Baht)	-	-	-	6.0	10.5

	Tonnes				
	2010	2011	2012	2013	2014
<u>Consumption</u>					
Total Consumption	1,412	2,832	1,423	48	60
Value (Million Baht)	5.7	11.5	5.9	0.3	0.4
<u>Import¹</u>					
Total Import	508	1022	555	578	545
Value (Million Baht)	9.8	18.0	12.1	12.2	12.1

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

G A R N E T

Tonnes

	2010	2011	2012	2013	2014
<u>Export</u>					
Europe					
Ukraine	-	-	23	162	216
Total Export	-	-	23	162	216
Value (Million Baht)	-	-	0.1	0.7	1.1

G E M S T O N E

Gram

	2010	2011	2012	2013	2014
<u>Production</u>					
Central Region					
Kanchanaburi	240	-	-	-	-
Total Production	240	-	-	-	-
Value (Million Baht)	n.a.	-	-	-	-
<u>Consumption</u>					
Total Consumption	240	-	-	-	-
Value (Million Baht)	n.a.	-	-	-	-

GLASS SAND

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northeastern Region					
Bueng Kan	-	-	-	-	1,887
Roi Et	-	-	-	-	5,950
Central Region					
Cha Choeng Sao	-	-	30,000	80,000	190,000
Chanthaburi	108,790	117,470	107,600	96,431	240,110
Rayong	215,195	102,851	295,294	464,850	509,111
Southern Region					
Chumphon	-	1,400	1,200	234,804	136,116
Total Production	323,985	221,721	434,094	876,085	1,083,174
Value (Million Baht)	113.4	77.6	151.9	306.6	379.1
<u>Consumption</u>					
Total Consumption	364,215	196,778	393,269	568,904	1,059,202
Value (Million Baht)	127.5	68.9	137.6	199.1	370.7
<u>Import</u>¹					
Total Import	28,195	27,943	51,698	110,329	165,366
Value (Million Baht)	94.6	120.3	192.5	234.9	299.3

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

G N E I S S

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Central Region					
Prachuap Khiri Khan	-	60	140	30	-
Total Production	-	60	140	30	-
Value (Million Baht)	-	0.2	0.6	0.1	-
<u>Consumption</u>					
Total Consumption	100	60	40	125	-
Value (Million Baht)	0.4	0.2	0.2	0.5	-

G O L D

Gram

	2010	2011	2012	2013	2014
<u>Production (Metal)</u>					
Northern Region					
Phetchabun	1,236,195	1,197,788	3,486,881	1,770,621	4,114,053
Phichit	2,117,256	1,072,040	821,347	2,625,470	311,815
Northeastern Region					
Loei	692,116	590,401	586,793	22,797	87,726
Total Production	4,045,567	2,860,229	4,895,021	4,418,889	4,513,594
Value (Million Baht)	5,023.0	4,425.4	8,119.8	6,105.7	5,946.4
<u>Export (Metal)</u>					
Asia					
Hong Kong	4,045,567	2,860,229	4,895,021	4,418,889	4,513,594
Total Export	4,045,567	2,860,229	4,895,021	4,418,889	4,513,594
Value (Million Baht)	5,023.0	4,425.4	8,119.8	6,105.7	5,946.4

G R A N I T E

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
1. Dimension Stone*					
Northern Region					
Nakhon Sawan	250	189	27	-	82
Phichit	66	50	5	-	-
Tak	4,303	4,164	4,000	2,010	2,136
Central Region					
Cha Choeng Sao	500	450	459	220	58
Nakhon Nayok	40	20	-	-	-
Prachuap Khiri Khan	965	395	1,015	720	700
Total Production	6,124	5,268	5,506	2,950	2,976
Value (Million Baht)	31.2	26.9	28.1	17.4	17.6
2. Industrial Rock					
Northern Region					
Tak	116,800	106,200	97,100	138,900	199,571
Central Region					
Cha Chaeng Sao	81,640	131,240	108,600	137,950	222,200
Chon Buri	2,441,590	2,360,071	2,362,516	2,855,235	3,348,695
Kanchanaburi	-	-	6,000	-	-
Prachuap Khiri Khan	73,389	17,904	19,189	21,059	31,738
Rayong	975,723	1,285,870	1,909,800	1,896,900	997,000
Southern Region					
Narathiwat	637,715	700,555	679,464	853,306	1,130,395
Phangnga	461,069	502,678	508,958	544,954	609,607
Songkhla	470,683	543,941	655,129	619,930	1,051,406
Total Production	5,258,609	5,648,459	6,346,756	7,068,234	7,590,612
Value (Million Baht)	709.9	762.5	856.8	954.2	1,024.7

* unit : cubic meter

Tonnes

	2010	2011	2012	2013	2014
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Export**Industrial Rock****Asia**

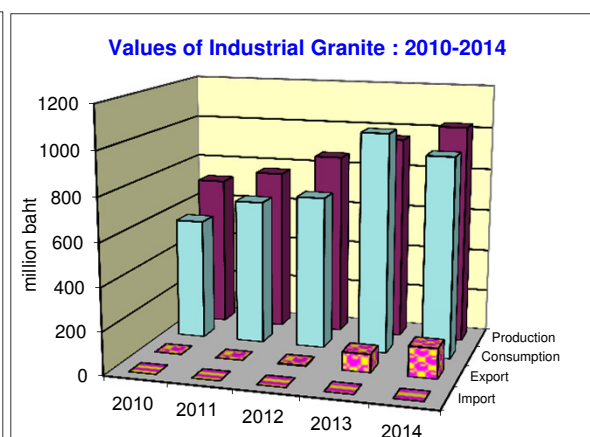
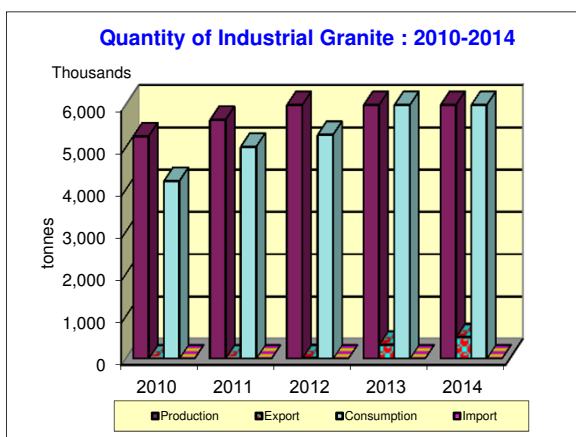
Myanmar	-	-	-	-	4.5
Singapore	-	-	8,500	331,474	505,710
Total Export	-	-	8,500	331,474	505,714
Value (Million Baht)	-	-	4.0	85.9	140.7

Consumption

1. Dimension Stone *	6,053	6,069	5,383	4,210	3,339
Value (Million Baht)	30.9	30.9	27.5	24.8	19.7
2. Industrial Rock	4,199,593	5,013,445	5,293,829	7,601,333	6,925,257
Value (Million Baht)	566.9	676.8	714.7	1,026.2	934.9

Import (Dimension Stone)¹

Total Import	138,476	136,495	136,741	132,200	128,227
Value (Million Baht)	476.9	482.9	491.3	491.8	525.1



* unit : cubic meter

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

G R A V E L

Tonnes

	2010	2011	2012	2013	2014
<u>Export (Industrial Rock)</u>					
Asia					
Malaysia	314	349	129	113	45
Qatar	-	-	-	81	-
Singapore	624	336	360	432	528
Total Export	938	685	489	626	573
Value (Million Baht)	2.9	2.0	1.9	2.4	2.8

G R A Y W A C K E

Tonnes

	2010	2011	2012	2013	2014
<u>Production (Industrial Rock)</u>					
Central Region					
Chanthaburi	416,059	430,267	269,637	328,737	338,634
Trat	552,631	536,550	467,984	532,713	716,187
Total Production	968,690	966,817	737,621	861,450	1,054,821
Value (Million Baht)	101.7	101.5	77.5	90.5	110.8
<u>Consumption (Industrial Rock)</u>					
Total Consumption	914,307	934,171	810,849	769,942	1,018,120
Value (Million Baht)	96.0	91.1	85.1	80.8	106.9

G Y P S U M

Tonnes

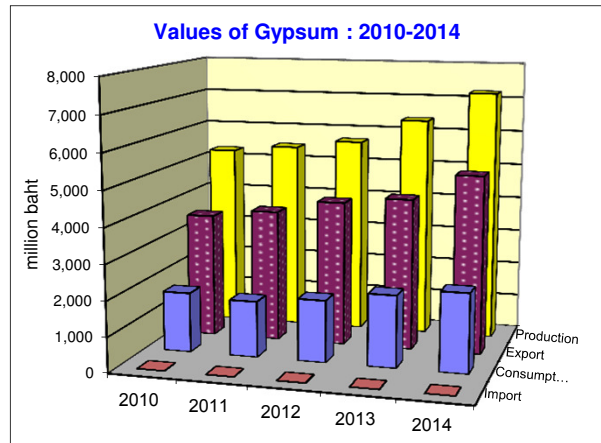
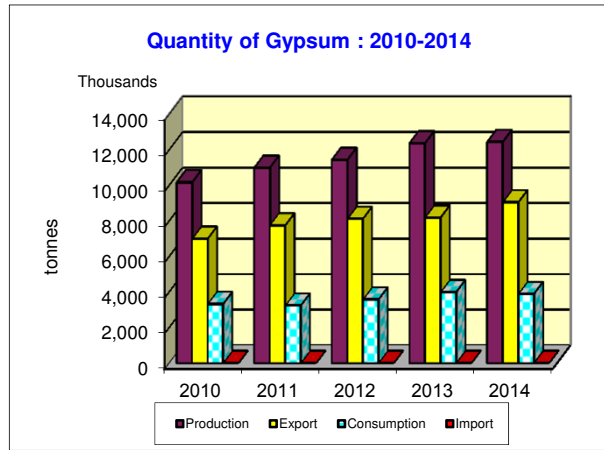
	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Nakhon Sawan	2,192,970	2,500,980	3,272,585	3,392,836	3,688,369
Phichit	455,466	424,874	22,308	134,400	453,102
Southern Region					
Nakhon Si Thammarat	1,602,656	1,730,224	1,946,534	2,217,212	1,472,991
Surat Thani	5,921,537	6,337,996	6,205,772	6,638,200	6,830,638
Total Production	10,172,629	10,994,074	11,447,199	12,382,648	12,445,100
Value (Million Baht)	5,270.4	5,442.1	5,666.4	6,358.7	7,205.1
<u>Export</u>					
1. Ground					
Asia					
China	-	-	-	22	220
Japan	1,340	1,520	2,080	2,340	1,560
Myanmar	80	408	120	1,392	528
Taiwan	913	210	378	352	903
Total Export	2,333	2,138	2,578	4,106	3,211
Value (Million Baht)	6.9	7.9	10.3	15.8	11.2

	Tonnes				
	2010	2011	2012	2013	2014
2. Unground					
Asia					
Bangladesh	467,148	474,649	642,955	594,375	567,268
Brunei	15,950	15,400	15,700	16,000	8,800
Cambodia	36,000	56,000	86,780	62,800	80,600
China	6,020	11,400	26,028	84,090	87,210
India	1,186,080	1,303,811	865,895	480,905	91,650
Indonesia	1,357,778	1,611,060	1,879,282	1,923,604	2,008,490
Japan	572,500	997,701	929,600	1,082,160	1,426,345
Korea,South	65,600	92,860	108,500	120,300	145,880
Malaysia	1,070,470	1,165,757	1,284,704	1,344,784	1,360,885
Nepal	-	-	-	8,000	-
Philippines	282,635	280,896	372,270	412,150	727,287
Singapore	4,500	11,000	5,000	4,500	-
Sri Lanka	92,720	118,350	137,020	134,700	101,000
Taiwan	184,100	58,300	-	-	186,550
Vietnam	1,587,766	1,528,624	1,602,887	1,614,534	2,003,190
Africa					
Madagascar	5,000	10,000	-	-	-
Reunion (La Reunion)	18,000	11,000	10,000	10,000	11,000
Tanzania	41,353	-	-	-	-
Australia / Oceania					
Australia	-	6,220	150,500	293,960	221,600
Fiji	-	-	-	-	14,000
Total Export	6,993,620	7,753,028	8,117,121	8,186,862	9,041,755
Value(Million Baht)	3,572.8	3,791.7	4,151.4	4,331.5	5,092.7
Consumption					
Total Consumption	3,327,023	3,240,627	3,577,011	3,990,108	3,883,504
Value (Million Baht)	1,713.8	1,604.1	1,770.6	2,052.4	2,250.2
Import¹					
Total Import	522	614	659	488	456
Value (Million Baht)	9.0	9.9	11.4	8.3	7.3

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

Tonnes

2010 2011 2012 2013 2014



ILMENITE

Tonnes

	2010	2011	2012	2013	2014
<u>Export</u>					
Asia					
Bangladesh	-	-	-	-	60
China	-	4,278	970	-	-
India	-	46	-	-	-
Indonesia	-	-	10	-	-
Korea,South	-	5,911	-	-	-
Malaysia	-	930	422	620	21
Philippines	210	336	278	653	66
Total Export	210	11,501	1,680	1,273	147
Value (Million Baht)	0.8	31.5	6.5	5.0	1.3
<u>Import¹</u>					
Total Import	903	753	1,097	978	1,358
Value (Million Baht)	9.6	11.5	34.8	21.2	25.1

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

I R O N

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Nakhon Sawan	-	4,400	33,500	56,250	66,650
Phayao	74,950	-	-	-	-
Phetchabun	7,000	7,952	20,900	35,500	-
Uthai Thani	31,000	5,200	-	-	-
Northeastern Region					
Loei	421,297	350,571	188,333	257,155	185,488
Central Region					
Cha Choeng Sao	30,000	-	3,000	5,000	12,000
Chon Buri	40,500	60,000	57,500	15,715	250
Lop Buri	101,000	-	-	-	-
Southern Region					
Nakhon Si Thammarat	271,190	61,236	-	20,000	83,530
Total Production	976,937	489,359	303,233	389,620	347,918
Value (Million Baht)	1,360.0	903.7	751.7	907.3	739.7
<u>Export</u>					
Asia					
China	321,950	390,580	161,139	296,208	167,011
Hong Kong	159,065	62,500	-	40	-
India	-	-	-	50	-
Indonesia	-	-	-	20	-
Japan	-	-	-	80	80
Myanmar	-	-	-	264	264
Singapore	20	-	-	-	-
Total Export	481,035	453,080	161,139	296,662	167,355
Value (Million Baht)	452.3	510.7	532.3	597.8	312.7
<u>Import</u>¹					
1.Iron Ore	457,508	161,427	16,217	5,774	4,422
Value (Million Baht)	1,689.8	770.2	69.8	41.6	35.2
2.Iron Pyrite	314	230	299	278	310
Value (Million Baht)	4.2	3.1	3.5	3.2	4.7

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

K A O L I N

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
1. Kaolin (Washed)					
Northern Region					
Lampang	33,749	28,033	35,670	18,322	18,540
Central Region					
Chanthaburi	-	-	-	315	940
Ratchaburi	3,200	6,200	-	-	-
Southern Region					
Narathiwat	6,985	6,415	6,975	7,110	6,680
Ranong	81,593	93,884	99,119	93,765	97,461
Total Production	125,527	134,532	141,764	119,512	123,621
Value (Million Baht)	120.5	129.2	136.1	114.7	118.7
2. Kaolin (Unwashed)					
Northern Region					
Lampang	180,154	386,391	464,095	207,833	425,829
Uthai Thani	64,450	147,400	255,080	50,000	-
Uttaradit	7,100	92,900	21,000	-	13,000
Central Region					
Chanthaburi	28,190	50,335	-	3,100	11,800
Kanchanaburi	234,100	173,000	135,300	241,300	227,000
Lop Buri	51,000	68,300	80,500	82,000	48,000
Phetchaburi	31,300	29,350	26,700	29,500	17,200
Prachin Buri	18,000	14,000	18,300	16,600	13,084
Southern Region					
Surat Thani	-	-	-	800	-
Total Production	614,294	961,676	1,000,975	631,133	755,913
Value (Million Baht)	236.5	370.2	385.4	243.0	291.0

	Tonnes				
	2010	2011	2012	2013	2014
3. Kaolin (Filler)					
Northern Region					
Uttaradit	3,837	4,329	300	-	-
Total Production	3,837	4,329	300	-	-
Value (Million Baht)	7.3	8.2	0.6	-	-
<u>Export</u>					
1. Washed					
Asia					
Bangladesh	88	622	765	584	1,606
China	64	189	20	566	966
India	971	258	758	939	769
Indonesia	528	1,076	1,488	1,372	840
Iran	-	-	-	-	7
Korea, South	-	-	1	27	24
Malaysia	842	2,300	1,790	3,583	3,621
Myanmar	-	9	-	-	-
Pakistan	48	40	-	88	40
Philippines	240	398	506	552	648
Taiwan	-	-	-	-	790
Vietnam	2,848	3,744	4,140	3,778	4,001
Europe					
U.K	-	-	20	-	-
Total Export	5,629	8,636	9,488	11,489	13,312
Value (Million Baht)	24.5	37.0	58.7	53.1	69.8
2. Unwashed					
Asia					
Vietnam	-	21	-	-	-
Total Export	-	21	-	-	-
Value (Million Baht)	-	0.1	-	-	-
3. Kaolin (Filler)					
Asia					
Vietnam	-	-	-	400	-
Total Export	-	-	-	400	-
Value (Million Baht)	-	-	-	2.5	-

Tonnes

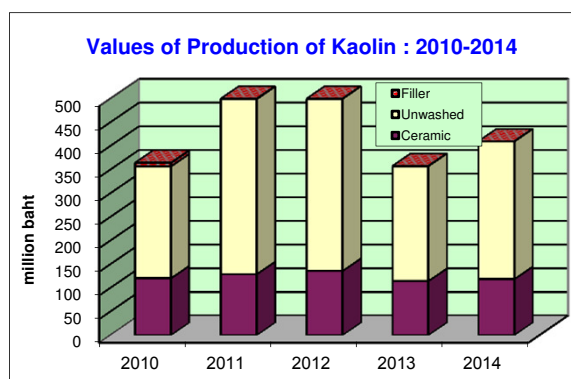
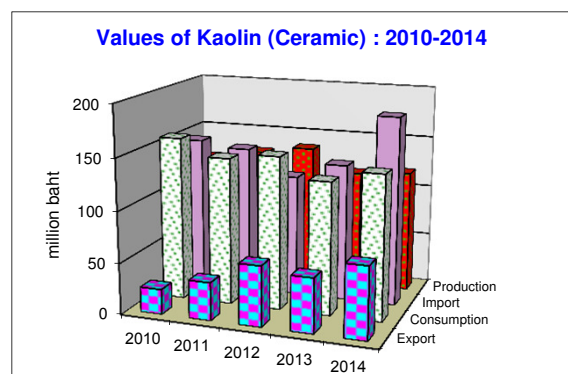
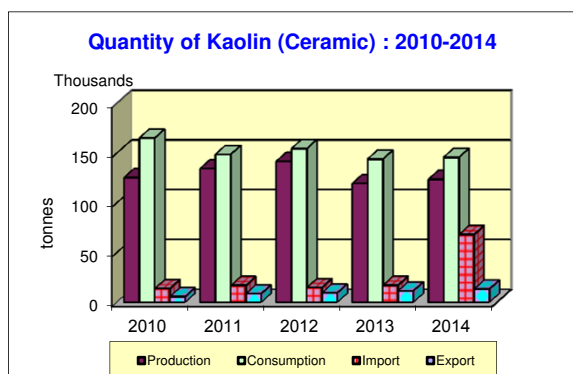
	2010	2011	2012	2013	2014
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Consumption

1. Washed	165,187	148,741	154,594	143,966	145,738
Value (Million Baht)	158.6	142.8	148.4	128.7	139.9
2. Unwashed	404,635	634,639	962,495	574,731	661,055
Value (Million Baht)	155.8	244.3	370.6	221.3	254.5
3. Filler	3,837	4,029	300	-	-
Value (Million Baht)	7.3	7.7	0.6	-	-

Import¹

1. Ceramic	13,880	16,907	14,965	17,240	68,240
Value (Million Baht)	147.3	141.9	117.9	133.2	182.7
2. Paper	5,918	4,423	4,404	3,166	7,486
Value (Million Baht)	62.5	42.7	41.1	29.6	74.7
3. Others	65,956	65,691	68,868	69,061	66,833
Value (Million Baht)	536.9	543.5	663.2	639.9	697.6



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

L E A D

Tonnes

	2010	2011	2012	2013	2014
<u>Import (Lead Ore)¹</u>					
Total Import	283	32	2	0**	20
Value (Million Baht)	5.5	0.7	0.0*	0.0*	0.3

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'

LEUCOXENE

Tonnes

	2010	2011	2012	2013	2014
<u>Export</u>					
Asia					
China	1,224	-	-	-	-
India	256	448	-	-	200
Indonesia	273	299	1	240	278
Iran	-	648	-	-	-
Japan	-	-	21	-	42
Korea, South	-	539	556	462	359
Malaysia	-	357	84	315	484
Philippines	24	383	1,102	420	22
Singapore	-	-	-	24	-
Taiwan	24	63	-	-	-
Africa					
Tunisia	-	-	72	-	-
Europe					
Iceland	-	336	-	-	-
Turkey	216	671	561	205	62
Ukraine	-	-	-	63	-
Total Export	2,017	3,744	2,397	1,729	1,447
Value (Million Baht)	33.3	65.3	60.3	46.3	35.9
<u>Import</u>¹					
Total Import	8,080	3,389	3,461	2,540	1,700
Value (Million Baht)	215.2	104.6	265.6	128.5	59.0

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

LIGNITE

Tonnes

	2010	2011	2012	2013	2014
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Production

Northern Region

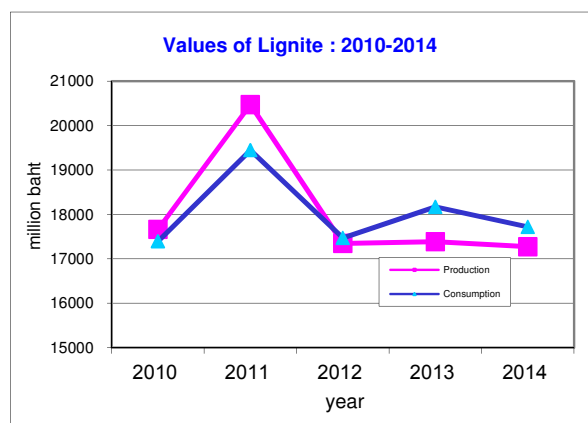
Lampang	18,165,299	20,881,950	17,778,246	17,884,763	17,828,910
Lamphun	160,600	352,960	145,433	3,000	9,640
Tak	73,500	92,196	145,749	223,000	152,812
Total Production	18,399,399	21,327,106	18,069,428	18,110,763	17,991,362
Value (Million Baht)	17,663.4	20,474.0	17,346.7	17,386.3	17,271.7

Consumption

Total Consumption	18,117,685	20,256,989	18,198,546	18,926,159	18,457,189
Value (Million Baht)	17,393.0	19,446.7	17,470.6	18,169.1	17,718.9

Import¹

Total Import	79	15	481	4,870	35,502
Value (Million Baht)	1.2	0.3	16.2	24.8	50.5



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

L I M E S T O N E

Tonnes

	2010	2011	2012	2013	2014
Production					
1. Cement Industry					
Northern Region					
Lampang	2,236,129	2,224,080	2,489,710	2,357,795	2,774,218
Nakhon Sawan	-	-	-	496,789	558,062
Northeastern Region					
Nakhon Ratchasima	36,674	30,926	14,950	14,831	51,053
Central Region					
Phetchaburi	340,471	530,319	399,205	533,075	621,775
Sara Buri	52,226,265	53,156,082	55,771,160	58,254,579	60,521,082
Southern Region					
Nakhon Si Thammarat	6,609,103	7,066,604	7,159,780	6,929,365	6,414,718
Total Production	61,448,642	63,008,011	65,834,805	68,586,434	70,940,908
Value (Million Baht)	7,373.8	7,561.0	7,900.2	8,230.4	8,512.9
2. Other Industries					
Northern Region					
Lampang	1,380,000	1,625,812	1,593,150	1,464,842	1,142,687
Northeastern Region					
Nakhon Ratchasima	80,832	62,365	94,636	176,243	92,907
Central Region					
Kanchanaburi	900	1,900	3,700	-	-
Sara Buri	2,243,644	2,594,355	3,357,937	4,462,533	4,646,038
Total Production	3,705,376	4,284,432	5,049,423	6,103,618	5,881,632
Value (Million Baht)	444.6	514.1	605.9	732.4	705.8
3. Dimension Stone					
Central Region					
Sara Buri	34	27	60	135	60
Total Production	34	27	60	135	60
Value (Million Baht)	0.1	0.1	0.1	0.3	0.1

	Tonnes				
	2010	2011	2012	2013	2014
4. Construction					
Northern Region					
Chiang Mai	1,306,313	1,538,608	2,051,300	1,966,600	2,141,495
Chiang Rai	985,120	1,677,070	1,981,480	1,516,825	1,571,420
Kamphaeng Phet	337,724	932,462	543,321	655,817	768,098
Lampang	866,873	668,317	900,995	908,639	1,183,500
Lamphun	973,310	689,283	450,210	1,081,447	886,189
Nakhon Sawan	3,489,484	2,699,768	2,775,065	2,889,134	2,507,685
Nan	442,000	118,412	254,131	182,784	302,050
Phayao	445,071	294,686	872,735	933,897	904,497
Phetchabun	2,051,249	1,575,687	1,893,858	1,539,250	1,952,090
Phitsanulok	103,329	245,946	316,912	274,417	272,373
Phrae	310,314	204,856	244,191	274,646	327,854
Sukhothai	988,388	1,036,475	1,150,233	1,710,214	1,921,731
Tak	320,136	348,950	653,220	737,870	832,664
Uthai Thani	342,787	284,061	427,766	354,342	179,214
Uttaradit	556,589	169,871	-	-	-
Northeastern Region					
Khon Kaen	3,910,720	5,779,595	3,063,236	3,355,908	2,826,484
Loei	2,156,224	2,594,267	2,898,620	2,990,422	3,971,675
Nakhon Ratchasima	2,390,503	2,536,384	2,309,724	2,189,684	2,207,586
Nong Bua Lamphu	1,197,510	1,235,802	1,218,982	1,290,209	900,365
Udon Thani	368,712	200,000	279,100	290,520	427,840
Central Region					
Cha Choeng Sao	-	-	-	516	-
Chai Nai	34,013	50,643	113,220	20,517	-
Chanthaburi	101,908	120,659	173,001	171,000	246,140
Chon Buri	7,610,566	9,457,415	9,079,492	9,927,498	11,339,203
Kanchanaburi	1,650,047	1,745,124	1,331,891	3,979,072	1,751,714
Lop Buri	658,671	947,000	695,500	539,787	541,000
Phetchaburi	1,018,488	1,623,957	1,442,057	1,304,775	1,284,264
Prachin Buri	100,079	283,021	327,710	259,910	454,170
Prachuap Khiri Khan	1,154,890	1,124,612	1,274,998	1,380,002	1,256,700
Ratchaburi	2,918,732	2,890,462	3,729,490	4,342,807	4,213,401
Rayong	617,715	476,980	546,496	520,309	538,254
Sa Kaeo	261,662	228,366	503,182	41,946	300,553
Sara Buri	9,488,282	11,458,877	11,624,816	14,244,290	14,449,942
Suphan Buri	10,891,410	11,556,842	12,444,394	13,386,874	14,381,758

Tonnes

	2010	2011	2012	2013	2014
Southern Region					
Chumphon	553,707	866,189	828,599	978,837	1,287,708
Krabi	744,135	713,672	631,279	511,807	611,173
Nakhon Si Thammarat	3,687,151	4,233,315	4,590,647	4,414,295	3,657,949
Phangnga	613,557	492,617	529,880	528,998	610,848
Phatthalung	204,008	423,487	-	-	218,608
Satun	511,526	761,762	1,015,576	808,203	887,939
Songkhla	506,550	696,840	440,383	311,224	357,938
Surat Thani	2,218,459	2,319,260	2,333,327	2,747,333	2,706,632
Trang	316,540	397,929	407,544	503,250	689,818
Yala	429,569	580,891	886,714	683,638	819,856
Total Production	69,834,022	78,280,420	79,235,275	86,749,513	88,690,378
Value (Million Baht)	7,332.6	8,219.4	8,319.7	9,108.7	9,312.5

Export**1. Construction****Asia**

Bangladesh	53,737	22,000	40,900	42,000	293,692
Cambodia	-	-	-	-	20
India	202,750	213,183	153,192	283,706	284,367
Indonesia	-	-	-	-	18,850
Malaysia	-	-	-	-	5,000
Singapore	-	-	87,164	-	-
Vietnam	60	-	-	-	-
Taiwan	-	27,700	38,500	84,000	80,800

Australia / Oceania

New Caledonia	-	66,859	-	65,740	140,350
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Europe

Italy	-	-	-	-	7
Germany	1	1	9	-	-

Total Export	256,548	329,743	319,765	475,446	823,086
Value (Million Baht)	88.5	132.1	110.6	185.9	296.6

	Tonnes				
	2010	2011	2012	2013	2014
2. Other Industries					
Asia					
Brunei	-	1	-	-	-
Cambodia	1,560	1,146	834	126	-
China	-	-	22	-	-
Indonesia	-	-	3,123	-	-
Jordan	-	22	21	21	-
Laos	-	-	440	1,518	309
Myanmar	-	56	33	-	945
Vietnam	5	-	-	42	-
Africa					
Nigeria	2	-	-	-	-
Australia / Oceania					
Australia	120	241	384	309	480
Europe					
Denmark	-	2	-	-	-
Germany	-	11	1	-	-
Total Export	1,687	1,479	4,859	2,016	1,734
Value (Million Baht)	3.5	3.4	15.0	7.0	3.6
<u>Consumption</u>					
1. Cement Industry	60,614,383	62,530,873	63,783,890	65,731,000	66,468,509
Value (Million Baht)	7,273.7	7,503.7	7,654.1	7,887.7	7,976.2
2. Construction	69,205,206	71,141,814	78,234,119	86,413,239	89,139,804
Value (Million Baht)	7,266.5	7,469.9	8,214.6	9,073.4	9,359.7
3. Dimension Stone	34	12	60	135	60
Value (Million Baht)	0.1	0.0*	0.1	0.3	0.1
4. Other Industries	3,383,776	4,304,560	5,137,747	5,816,898	6,262,694
Value (Million Baht)	406.1	516.6	616.5	698.0	751.5

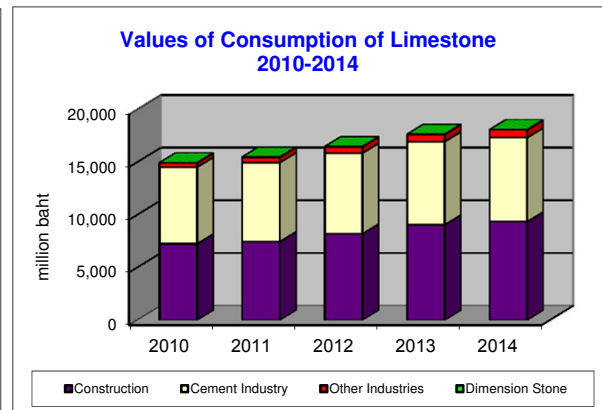
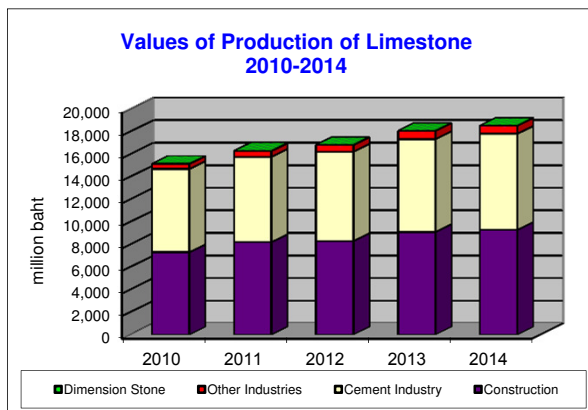
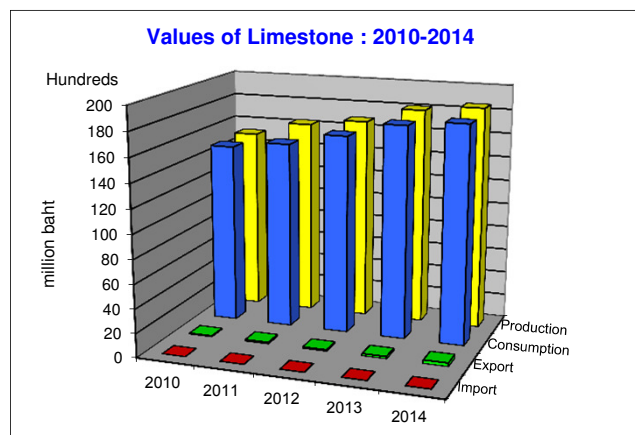
0.0* denoting the amount of less than 0.05 million baht

Tonnes

	2010	2011	2012	2013	2014
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Import¹

Total Import	3,256	6,842	3,421	3,057	3,046
Value (Million Baht)	4.3	14.6	1.9	3.3	3.9



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

M A N G A N E S E

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Metallurgical grade					
Northern Region					
Chiang Mai	1,650	-	-	-	500
Chiang Rai	17,800	398	8,151	14,320	13,830
Lamphun	31,000	-	-	-	-
Total Production	50,450	398	8,151	14,320	14,330
Value (Million Baht)	146.3	1.2	30.4	73.3	70.5
<u>Export</u>					
Metallurgical grade					
Asia					
Bangladesh	1,234	2,860	-	-	-
China	57,075	16,381	12,375	10,640	30,368
India	1,389	-	100	-	-
Indonesia	-	-	300	-	-
Jordan	-	-	50	-	-
Malaysia	1	-	-	-	-
Total Export	59,699	19,241	12,825	10,640	30,368
Value (Million Baht)	754.0	63.0	51.4	31.6	96.1
<u>Consumption</u>					
Total Consumption	54,415	-	1,118	3,575	2,730
Value (Million Baht)	157.8	-	4.3	18.2	13.5
<u>Import (Manganese Ore)¹</u>					
Total Import	4,530	18,633	24,282	18,017	18,518
Value (Million Baht)	17.8	42.8	52.8	38.3	37.3

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

MARBLE

Cubic metre

	2010	2011	2012	2013	2014
<u>Production</u>					
1. Dimension Stone					
Northern Region					
Kamphaeng Phet	2,469	320	-	-	-
Nakhon Sawan	25	10	10	-	-
Sukhothai	2,229	1,403	769	450	38
Uthai Thani	-	-	-	1,197	1,437
Uttaradit	835	-	-	-	-
Northeastern Region					
Nakhon Ratchasima	779	421	668	600	600
Central Region					
Lop Buri	-	10	500	-	-
Sara Buri	5,760	5,510	5,275	5,920	9,048
Total Production	12,097	7,674	7,222	8,167	11,123
Value (Million Baht)	44.8	28.4	26.7	31.9	43.4
2. Fragment					
Northern Region					
Kamphaeng Phet	215,284	139,353	-	-	18,849
Lamphun	-	-	38,503	88,787	-
Nakhon Sawan	-	-	-	-	126,848
Sukhothai	-	5,308	14,000	-	-
Tak	73,773	105,219	-	-	-
Uttaradit	750	99,697	252,144	364,915	493,562
Northeastern Region					
Nakhon Ratchasima	-	-	-	29,500	-
Central Region					
Lop Buri	-	200	-	1,000	-
Sara Buri	477,330	151,786	-	-	-
Total Production	767,137	501,563	304,647	484,202	639,259
Value (Million Baht)	249.3	163.0	99.0	157.4	207.8

	Cubic metre				
	2010	2011	2012	2013	2014
<u>Consumption</u>					
1. Dimension Stone	182,996	128,512	26,457	32,920	7,338
Value (Million Baht)	677.1	475.5	97.9	128.4	28.6
2. Fragment	1,078,912	535,439	221,766	484,188	624,357
Value (Million Baht)	350.6	174.0	72.1	157.4	202.9
<u>Import</u>¹					
Total Import	45,010	49,532	44,094	37,128	38,279
Value (Million Baht)	322.0	364.0	386.5	348.0	387.6

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

M A R L

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Central Region					
Sara Buri	68,000	65,000	100,000	75,500	1,200
Total Production	68,000	65,000	100,000	75,500	1,200
Value (Million Baht)	5.8	5.5	8.5	6.4	0.1
<u>Consumption</u>					
Total Consumption	69,550	69,000	113,100	13,300	3,000
Value (Million Baht)	5.9	5.9	9.6	1.1	0.3

M I C A

	Tonnes				
	2010	2011	2012	2013	2014
<u>Import</u>¹					
Total Import	5,504	4,860	4,577	4,504	4,392
Value (Million Baht)	125.3	128.8	140.7	119.6	122.2

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

MONAZITE

Tonnes

	2010	2011	2012	2013	2014
<u>Export</u>					
Asia					
China	9,345	4,328	-	210	3,150
Korea, South	60	-	-	-	-
Laos	-	760	-	-	-
Malaysia	-	-	200	-	-
Total Export	9,405	5,088	200	210	3,150
Value (Million Baht)	284.3	171.6	10.4	9.3	147.1

P E R L I T E

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Central Region					
Lop Buri	14,700	26,500	41,400	14,293	54,100
Total Production	14,700	26,500	41,400	14,293	54,100
Value (Million Baht)	10.4	18.7	29.2	10.1	38.2
<u>Consumption</u>					
Total Consumption	11,634	13,796	12,687	14,293	12,200
Value (Million Baht)	8.2	9.7	7.7	10.1	8.6

P H O S P H A T E

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Kamphaeng Phet	822	-	-	-	-
Lamphun	34,210	3,020	-	-	-
Central Region					
Kanchanaburi	-	-	1,740	-	500
Phetchaburi	751	280	250	350	-
Total Production	35,783	3,300	1,990	350	500
Value (Million Baht)	14.9	1.4	0.8	0.1	0.2
<u>Consumption</u>					
Total Consumption	2,316	344	1,799	264	500
Value (Million Baht)	1.0	0.1	0.7	0.1	0.2
<u>Import</u>¹					
1. Ground	356	71	-	0**	1
Value (Million Baht)	3.0	0.7	-	0.0*	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'

PYROPHYLLITE

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Central Region					
Sara Buri	2,205	5,300	35,000	26,820	49,100
Total Production	2,205	5,300	35,000	26,820	49,100
Value (Million Baht)	0.8	1.9	12.3	9.4	19.9
<u>Export</u>					
Asia					
China	-	-	-	200	100
Indonesia	880	5,812	3,856	1,936	480
Japan	-	-	-	40	-
Malaysia	198	52	20	40	-
Vietnam	1,500	3,300	2,100	3,680	2,180
Total Export	2,578	9,164	5,976	5,896	2,760
Value (Million Baht)	7.2	25.2	16.3	17.5	9.3
<u>Consumption</u>					
Total Consumption	2,205	5,300	33,000	26,000	34,900
Value (Million Baht)	0.8	1.9	11.6	9.1	13.6
<u>Import</u>¹					
Total Import	-	-	56	42	1
Value (Million Baht)	-	-	1.0	0.7	0.5

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

QUARTZ

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
1. Ground					
Northern Region					
Tak	2,994	3,046	3,040	2,938	3,250
Total Production	2,994	3,046	3,040	2,938	3,250
Value (Million Baht)	2.2	2.3	2.3	2.2	2.4
2. Underground					
Central Region					
Kanchanaburi	38,870	116,710	107,700	126,700	88,940
Prachuap Khiri Khan	-	1,500	4,500	800	9,400
Southern Region					
Nakhon Si Thammarat	2,200	2,100	-	-	-
Total Production	41,070	120,310	112,200	127,500	98,340
Value (Million Baht)	30.8	90.2	84.2	95.6	73.8
3. Industrial Rock					
Central Region					
Kanchanaburi	5,000	-	-	-	-
Southern Region					
Songkhla	-	29,220	289,560	263,353	93,241
Total Production	5,000	29,220	289,560	263,353	93,241
Value (Million Baht)	0.5	3.1	30.4	27.7	9.8

	Tonnes				
	2010	2011	2012	2013	2014
<u>Consumption</u>					
1. Ground	2,908	4,706	3,237	2,737	3,093
Value (Million Baht)	2.2	3.5	2.4	2.1	2.3
2. Underground	29,433	64,300	47,190	66,560	160,147
Value (Million Baht)	22.1	48.2	35.4	49.9	120.1
3. Industrial Rock	200	15,576	194,460	226,585	95,665
Value (Million Baht)	0.0*	1.6	20.4	23.7	10.0
<u>Import</u>¹					
Total Import	2,572	3,127	3,082	3,248	5,920
Value (Million Baht)	23.5	14.0	15.6	17.7	39.4

0.0* denoting the amount of less than 0.05 million baht

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

RHYOLITE

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Central Region					
Sara Buri	313,631	562,314	794,226	1,244,388	837,314
Total Production	313,631	562,314	794,226	1,244,388	837,314
Value (Million Baht)	32.9	59.0	83.4	130.7	87.9
<u>Consumption</u>					
Total Consumption	334,891	647,913	609,717	861,707	818,859
Value (Million Baht)	35.2	68.0	64.0	90.5	85.9

R O C K S A L T

Tonnes

	2010	2011	2012	2013	2013
<u>Production</u>					
Northeastern Region					
Nakhon Ratchasima	1,405,406	1,359,493	1,363,539	1,300,156	1,381,067
Total Production	1,405,406	1,359,493	1,363,539	1,300,156	1,381,067
Value (Million Baht)	1,545.9	1,495.4	1,499.9	1,430.2	1,519.2
<u>Consumption</u>					
Total Consumption	1,396,015	1,351,073	1,344,162	1,312,516	1,372,904
Value (Million Baht)	1,535.6	1,486.2	1,478.6	1,443.8	1,510.2
<u>Import</u>¹					
Total Import	1	5	-	-	-
Value (Million Baht)	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

	2010	2011	2012	2013	2014
<u>Export</u>					
Asia					
China	504	1,242	10	-	-
India	210	-	-	-	-
Iran	96	48	93	410	-
Malaysia	24	305	-	-	-
Philippines	651	577	-	-	-
Europe					
Turkey	813	428	-	-	-
Ukraine	-	115	514	-	194
Total Export	2,298	2,715	617	410	194
Value (Million Baht)	38.5	53.2	21.2	14.4	5.6
<u>Import</u>¹					
Total Import	7,276	6,684	5,492	3,991	6,799
Value (Million Baht)	77.8	181.5	460.1	220.3	241.1

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

S A N D S T O N E

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
1. Dimension Stone					
Northeastern Region					
Nakhon Ratchasima	2,642	2,883	1,498	2,445	357
Total Production	2,642	2,883	1,498	2,445	357
Value (Million Baht)	1.8	2.0	1.0	1.7	0.2
2. Industrial Rock					
Northern Region					
Uttaradit	-	-	-	-	61,835
Southern Region					
Phangnga	127,625	127,450	228,131	189,182	147,516
Satun	50,861	180,720	167,549	191,906	39,727
Total Production	178,486	308,170	395,680	381,089	249,078
Value (Million Baht)	17.9	30.8	39.6	38.1	24.9
<u>Consumption</u>					
1. Dimension Stone					
Value (Million Baht)	1.8	2.0	1.0	1.7	0.2
2. Industrial Rock					
Value (Million Baht)	18.7	30.2	32.3	31.7	26.0
<u>Import</u>¹					
Dimension Stone					
Value (Million Baht)	26.1	3.6	10.9	2.6	11.6

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

S H A L E

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Lampang	-	-	1,147	3,031	-
Central Region					
Sara Buri	4,180,593	4,593,446	4,754,237	4,304,409	5,408,521
Total Production	4,180,593	4,593,446	4,755,384	4,307,440	5,408,521
Value (Million Baht)	522.6	574.2	594.4	538.4	676.1
<u>Consumption</u>					
Total Consumption	4,126,822	4,343,767	4,698,855	4,028,571	5,313,821
Value (Million Baht)	515.9	543.0	587.4	503.6	664.2

S I L V E R

Gram

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Phetchabun	7,072,696	10,075,526	26,193,636	12,703,941	28,495,328
Phichit	10,359,768	9,245,833	5,631,776	19,675,044	2,457,823
Northeastern Region					
Loei	126,009	134,533	221,389	2,280	92,765
Total Production	17,558,473	19,455,892	32,046,801	32,381,264	31,045,916
Value (Million Baht)	359.3	661.7	988.4	747.5	618.4
<u>Export</u>					
Asia					
Hong Kong	17,558,473	19,456,075	32,046,801	32,381,264	31,045,916
Total Export	17,558,473	19,456,075	32,046,801	32,381,264	31,045,916
Value (Million Baht)	359.3	661.7	988.4	747.5	618.4
<u>Import</u>¹					
Total Import	25	19	-	12	12
Value (Million Baht)	1.3	1.7	-	1.2	1.2

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

S T R U V E R I T E

Tonnes

	2010	2011	2012	2013	2014
<u>Export</u>					
Asia					
China	276	642	410	147	87
Total Export	276	642	410	147	87
Value (Million Baht)	26.7	71.1	39.0	27.1	16.7

T A L C

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Uttaradit	672	2,304	5,856	7,880	8,208
Total Production	672	2,304	5,856	7,880	8,208
Value (Million Baht)	0.4	1.4	3.5	4.7	4.9
<u>Consumption</u>					
Total Consumption	647	3,024	5,732	7,465	8,123
Value (Million Baht)	0.4	1.8	3.4	4.5	4.9
<u>Import¹</u>					
Total Import	135,219	126,254	138,694	143,049	137,228
Value (Million Baht)	1,452.9	1,380.8	1,786.2	1,751.1	1,662.8

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

TANTALUM

Tonnes

	2010	2011	2012	2013	2014
<u>Export</u>					
1. Columbium Pentoxide Powder					
Asia					
China	-	150	-	-	-
Total Export	-	150	-	-	-
Value (Million Baht)	-	15.7	-	-	-
<u>Import (Tantalite)¹</u>					
Total Import	-	483	652	42	182
Value (Million Baht)	-	946.8	675.3	77.0	356.2

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

T I N

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
1. Production of Tin Concentrates by changwat					
Northern Region					
Chiang Mai	216	228	154	75	100
Central Region					
Kanchanaburi	5	5	13	18	31
Phetchaburi	10	8	-	-	-
Southern Region					
Ranong	60	45	32	39	25
Total Production	292	286	199	132	156
Value (Million Baht)	134.3	172.0	94.0	65.7	80.0
2. Production of Tin Concentrates by Mining Methods.					
Open Pitting	232	241	167	93	131
Dulang Washing	60	45	32	39	25
Total Production	292	286	199	132	156
Value (Million Baht)	134.3	172.0	94.1	65.6	80.1
3. Percentage of Tin Production by Mining Methods.					
Open Pitting	79.4	84.3	83.9	70.4	84.0
Dulang Washing	20.6	15.7	16.1	29.6	16.0
4. Production of Primary Tin Metal					
Total Production	23,319	23,714	22,797	22,923	16,494
Value (Million Baht)	15,116.9	19,042.1	15,012.7	15,574.7	11,831.1

	Tonnes				
	2010	2011	2012	2013	2014
Export					
1. Primary Tin Metal					
Africa					
Egypt	5	-	-	-	4
Guinea	-	204	-	-	-
South Africa	-	-	125	-	-
U.A.E	5	-	-	-	-
Asia					
Bangladesh	-	-	-	20	35
China	80	200	519	715	170
Hong Kong	80.0	50.0	51.3	84	61
India	120	255	585	175	45
Israel	-	-	-	10	-
Japan	13,952	10,156	9,524	9,209	5,774
Korea, South	1,334	1,181	2,673	3,318	3,835
Malaysia	521	184	140	180	88
Pakistan	-	-	-	6	5
Philippines	31	6	10	117	9
Russia	-	-	-	10	-
Singapore	1,595	4,000	134	-	62
Taiwan	353	393	361	607	191
Vietnam	-	-	-	44	172
Australia / Oceania					
Australia	190	498	213	92	138
New Zealand	-	6	-	7	5
Europe					
Austria	50	178	-	-	-
Belgium	20	122	158	168	272
France	-	-	120	-	25
Germany	394	1,400	484	158	74
Iceland	-	-	-	-	50
Italy	125	-	50	1,000	125
Netherlands	21	-	1,975	2,400	2,037
Switzerland	25	1,125	-	-	-
Turkey	-	-	25	-	-
U.K.	462	57	301	227	596
North America					
U.S.A.	-	-	2,180	1,175	115
Total Export	19,363	20,015	19,628	19,721	13,890
Value (Million Baht)	12,694.3	16,387.6	13,248.0	13,483.4	9,150.3

	Tonnes				
	2010	2011	2012	2013	2014
2. Tin-Lead Alloy					
Asia					
Hong Kong	14	-	-	-	-
Malaysia	-	-	-	-	2
Europe					
Belgium	22	37	55	25	-
Total Export	36	37	55	25	2
Value (Million Baht)	19.7	33.8	30.5	9.8	1.0
3. Final Slag					
Asia					
China	1,271	50	57	37	113
India	-	-	-	1	-
Europe					
Germany	-	-	-	3	-
Total Export	1,271	50	57	40	113
Value (Million Baht)	105.6	3.7	6.4	8.0	18.5
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				
	2010	2011	2012	2013	2014
6. Hard Head					
Africa					
U.A.E	-	-	86	-	-
Asia					
Singapore	-	-	-	-	13
Europe					
Belgium	1,389	297	280	45	145
Total Export	1,389	297	366	45	158
Value (Million Baht)	422.3	138.5	164.5	16.1	53.3
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	-	-
<u>Consumption</u>					
1. Primary Tin Metal	3,707	3,321	3,321	3,012	3,257
Value (Million Baht)	2,346.8	2,648.3	2,176.1	2,044.3	2,313.0
2. Tin-lead Alloy	1,037	985	833	-	-
Value (Million Baht)	n.a.	n.a.	n.a.	-	-
<u>Import</u>¹					
Tin ore	3,432	2,716	2,842	648	5,851
Value (Million Baht)	685.0	257.2	397.0	280.4	2,385.5

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

T R A V E R T I N E

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Central Region					
Sara Buri	1,760	900	900	-	5,103
Total Production	1,760	900	900	-	5,103
Value (Million Baht)	3.5	1.8	1.8	-	10.2
<u>Consumption</u>					
Total Consumption	1,720	900	900	-	1,103
Value (Million Baht)	3.4	1.8	1.8	-	2.2
<u>Import¹</u>					
Total Import	0.1	0**	0**	0**	17.0
Value (Million Baht)	0.0*	0.1	0.0*	0.0*	0.2

0** denoting the amount of less than 0.1 tonnes

0.0* denoting the amount of less than 0.05 million baht

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

TUNGSTEN

Tonnes

	2010	2011	2012	2013	2014
<u>1. Wolfram</u>					
<u>Production</u>					
Northern Region					
Phrae	320	146	-	108	36
Low grade	256	-	-	-	-
Central Region					
Kanchanaburi	4.5	7.3	2.5	5.2	9.9
Phetchaburi	1.9	0.3	-	-	-
Total Production	326.4	153.6	2.5	113.2	45.9
Low grade	256	-	-	-	-
Value (Million Baht)	32.4	15.3	0.2	11.2	4.6
Low grade	7.0	-	-	-	-
<u>Export</u>					
Asia					
China	320	204	-	60	-
Europe					
Germany	20	-	-	-	-
Virgin Islands	-	-	-	-	16
North America					
U.S.A.	7	-	-	-	-
Total Export	347	204	-	60	16
Value (Million Baht)	2.3	3.1	-	1.7	1.1
<u>Import¹</u>					
Total Import	7	39	21	5	3
Value (Million Baht)	0.6	2.9	1.8	1.3	0.8

0** denoting the amount of less than 0.1 tonnes

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

	Tonnes				
	2010	2011	2012	2013	2014
<u>2. Scheelite</u>					
<u>Production</u>					
Northern Region					
Chiang Mai	129	138	130	139	127
Total Production	129	138	130	139	127
Value (Million Baht)	12.8	13.7	12.9	13.8	12.6
<u>Export</u>					
Asia					
China	-	19	-	-	-
Hong Kong	-	-	17	-	-
Vietnam	-	19	21	-	-
Europe					
Austria	-	-	43	71	21
North America					
U.S.A.	116	122	135	102	97
Total Export	116	160	216	173	119
Value (Million Baht)	43.9	46.5	22.0	17.2	11.8
<u>3. Other Tungsten</u>					
<u>Import¹</u>					
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

	2010	2011	2012	2013	2014
<u>Export</u>					
Asia					
China	42	21	-	-	-
Total Export	42	21	-	-	-
Value(Million Baht)	0.1	1.9	-	-	-
<u>Import¹</u>					
Total Import	-	-	60	-	-
Value (Million Baht)	-	-	0.7	-	-

Z I N C

Tonnes

	2010	2011	2012	2013	2014
<u>Production</u>					
Northern Region					
Tak	146,470	148,391	166,642	172,578	226,893
Total Production	146,470	148,391	166,642	172,578	226,893
Value (Million Baht)	2,099.2	2,006.3	2,102.8	2,080.2	3,312.5
<u>Export</u>					
1. Zinc Metal					
Africa					
Niger	-	-	-	-	76
Nigeria	-	13	35	-	152
Asia					
Cambodia	-	51	20	45	25
India	1	-	250	133	627
Indonesia	7	7	8	1	28
Japan	-	982	41	-	-
Korea, South	302	-	80	-	-
Laos	273	374	-	-	3
Malaysia	1	2,023	1,271	3	504
Myanmar	615	-	1,342	-	144
Singapore	-	2,407	331	212	1,010
Taiwan	-	-	2	389	-
Vietnam	3,322	4,678	3,758	303	0.2
Europe					
Italy	-	20	-	-	-
Total Export	4,522	10,555	7,138	1,086	2,569
Value (Million Baht)	329.1	714.5	441.1	87.7	199.4

	Tonnes				
	2010	2011	2012	2013	2014
2. Zinc Alloy					
Africa					
Nigeria	-	62	-	-	-
Asia					
Cambodia	18	0.4	-	-	-
Japan	-	21	-	-	-
Malaysia	-	-	41	39	-
Australia / Oceania					
Australia	96	59	55	3	-
Total Export	114	142	96	42	-
Value (Million Baht)	6.6	10.5	5.2	2.2	-
<u>Consumption</u>					
1. Zinc Alloy	30,873	36,253	34,735	32,493	29,833
Value (Million Baht)	2,380.1	2,746.8	2,324.3	2,134.8	2,379.2
2. Zinc Metal	61,142	54,410	51,960	33,168	28,638
Value (Million Baht)	4,390.3	3,802.8	3,266.0	2,039.5	2,079.0
<u>Import (Zinc Ore)¹</u>					
Total Import	174,586	125,818	139,625	119,896	41,747
Value (Million Baht)	3,781.4	3,273.4	3,090.1	2,451.5	999.0

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

Z I R C O N

Tonnes

	2010	2011	2012	2013	2014
<u>Export</u>					
Asia					
China	7,512	11,064	4,882	8,681	9,175
India	-	-	-	-	1,479
Malaysia	-	-	-	-	84
Philippines	64	-	-	-	-
Taiwan	-	138	240	-	-
Total Export	7,576	11,202	5,122	8,681	10,738
Value(Million Baht)	133.3	277.3	176.9	277.8	273.7
<u>Import (Zirconium Ore)¹</u>					
Total Import	47,451	46,633	12,334	35,696	51,545
Value (Million Baht)	493.1	1,351.6	615.0	506.8	629.1

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

NUMBER OF ACTIVE MINES BY KIND OF MINERALS

	2010	2011	2012	2013	2014
Andesite	2	2	3	3	3
Antimony	2	2	2	-	-
Ball clay	11	7	6	6	5
Barite	4	4	4	4	6
Basalt (industrial rock)	31	29	26	26	32
Bentonite	1	1	1	1	-
Calcite	7	6	6	7	7
Cement clay	37	31	4	9	16
Ceramic clay	14	10	2	2	4
Diatomite	2	1	1	-	-
Dolomite	17	18	22	19	20
Feldspar	23	22	23	22	20
Fluorite	4	4	3	2	2
Gem stone	1	-	-	-	-
Glass sand	12	11	9	11	11
Gneiss	1	1	1	1	1
Gold	4	4	4	4	4
Granite (dimension stone)	30	28	23	22	22
Granite (industrial rock)	19	18	17	18	18
Graywacke	1	1	1	1	1
Gypsum	48	49	47	46	44
Iron	10	9	13	14	15
Kaolin	33	34	31	29	27
Lignite	9	8	8	7	6
Limestone (cement)	19	18	15	14	17
Limestone (construction)	179	186	190	192	196
Limestone (dimension)	3	3	4	5	3
Limestone (others)	18	19	19	13	15
Manganese	2	3	3	2	3
Marble	32	25	19	17	17
Marl	4	3	3	3	3

NUMBER OF ACTIVE MINES BY KIND OF MINERALS

	2010	2011	2012	2013	2014
Perlite	2	2	2	3	3
Phosphate	2	2	1	1	1
Pyrophyllite	2	2	3	3	3
Quartz	2	4	7	7	7
Quartz (industrial rock)	1	-	-	-	-
Rhyolite (industrial rock)	1	1	1	1	1
Rock salt	4	4	4	4	3
Sand stone (dimension)	8	7	7	8	9
Sand stone (industrial rock)	2	2	3	4	3
Shale	7	7	7	6	6
Talc	1	1	1	2	2
Tin*	5	5	3	3	3
Travertine	4	3	3	3	2
Wolfram	1	1	1	1	1
Zinc	1	1	1	1	1
Total	623	599	554	547	563

* Including tin-tungsten mines

NUMBER OF WORKERS EMPLOYED IN MINES
BY KIND OF MINERAL

	2010	2011	2012	2013	2014
Andesite	35	33	30	30	30
Antimony	11	13	21	-	-
Ball clay	161	141	283	354	351
Barite	97	68	55	85	131
Basalt (industrial rock)	709	626	554	544	686
Bentonite	12	11	12	12	-
Calcite	120	89	93	109	76
Cement clay	272	233	35	123	340
Ceramic clay	89	60	17	19	47
Diatomite	5	4	4	-	-
Dolomite	249	257	284	259	262
Feldspar	327	330	324	330	288
Fluorite	145	108	95	67	74
Gem stone	9	-	-	-	-
Glass sand	61	43	30	37	73
Gneiss	7	7	7	7	7
Gold	224	229	213	383	427
Granite (dimension)	338	310	251	221	224
Granite (industrial rock)	314	310	340	354	500
Graywacke	29	31	29	27	28
Gypsum	1,024	1,008	1,017	933	865
Iron	337	267	353	407	380
Kaolin	353	380	361	344	326
Lignite	1,967	1,967	1,954	1,921	1,884
Limestone (cement)	1,288	1,263	1,170	1,114	874
Limestone (construction)	3,032	3,233	3,399	3,598	3,947
Limestone (dimension)	25	25	30	24	15
Limestone (others)	287	316	361	308	351
Manganese	27	24	12	9	37
Marble	561	390	298	295	312
Marl	20	19	16	18	22

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

	2010	2011	2012	2013	2014
Perlite	31	28	31	69	69
Phosphate	26	45	59	60	60
Pyrophyllite	23	24	35	37	31
Quartz	31	61	103	108	110
Quartz (industrial rock)	27	-	-	-	-
Rhyolite (industrial rock)	43	43	43	43	43
Rock salt	127	125	128	126	128
Sand stone (dimension)	53	45	42	55	51
Sand stone (industrial rock)	25	25	39	59	56
Shale	140	85	85	84	113
Talc	6	6	8	19	26
Tin*	313	282	269	256	256
Travertine	17	18	19	19	10
Wolfram	15	15	125	76	57
Zinc	292	301	298	256	231
Dulang Washer	209	188	266	246	148
Total	13,513	13,086	13,198	13,445	13,946

* Including workers employed in tin-tungsten mines

Mineral Production of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Mineral Fuels and Energy										
Lignite	18,399,399	17,663.4	21,327,106	20,474.0	18,069,428	17,346.7	18,110,763	17,386.3	17,991,362	17,271.7
Total		17,663.4		20,474.0		17,346.7		17,386.3		17,271.7
%		30.99		34.22		28.32		28.64		26.92
Iron and Ferro Alloy										
Iron ore	976,937	1,360.0	489,359	903.7	303,233	751.7	389,620	907.3	347,918	739.7
Manganese (metallurgical grade)	50,450	146.3	398	1.2	8,151	30.4	14,320	73.3	14,330	70.5
Tungsten										
- Scheelite	129	12.8	138	13.7	130	12.9	139	13.8	127	12.6
- Wolfram	326	32.4	154	15.3	3	0.2	113	11.2	46	4.6
- Low grade	256	7.0	-	-	-	-	-	-	-	-
Total		1,558.5		933.9		795.2		1,005.6		827.4
%		2.74		1.56		1.30		1.66		1.29
Base Metals										
Antimony										
- Low grade	-	-	172	n.a.	43	n.a.	-	-	-	-
- Ore	738	21.3	56	1.6	-	-	-	-	-	-
Copper metal	723	168.5	525	146.4	721	186.5	-	-	229	52.3
Tin concentrates	292	134.3	286	172.0	199	94.0	132	65.7	156	80.0
Zinc ore	146,470	2,099.2	148,391	2,006.3	166,642	2,102.8	172,578	2,080.2	226,893	3,312.5
Total		2,423.3		2,326.3		2,383.3		2,145.9		3,444.8
%		4.25		3.89		3.89		3.53		5.37

Mineral Production of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Precious Metals and Precious Stone										
Gem stone (unit : gram)	240	n.a.	-	-	-	-	-	-	-	-
Gold metal (unit : gram)	4,045,567	5,023.0	2,860,229	4,425.4	4,895,021	8,119.8	4,418,889	6,105.7	4,513,594	5,946.4
Silver metal (unit : gram)	17,558,473	359.3	19,455,892	661.7	32,046,801	988.4	32,381,264	747.5	31,045,916	618.4
Total		5,382.3		5,087.1		9,108.2		6,853.2		6,564.8
%		9.44		8.51		14.87		11.29		10.23
Cement Industrial Minerals										
Anhydrite	536,120	279.3	614,148	304.0	857,172	424.3	1,264,077	648.7	976,818	565.5
Cement Clay	8,250,823	742.6	8,571,884	771.5	6,007,039	540.6	2,534,097	228.1	4,124,016	371.2
Gypsum (unground)	10,172,629	5,270.4	10,994,074	5,442.1	11,447,199	5,666.4	12,382,648	6,358.7	12,445,100	7,205.1
Limestone	61,448,642	7,373.8	63,008,011	7,561.0	65,834,804	7,900.2	68,586,434	8,230.4	70,940,908	8,512.9
Marl	68,000	5.8	65,000	5.5	100,000	8.5	75,500	6.4	1,200	0.1
Shale	4,180,593	522.6	4,593,446	574.2	4,755,384	594.4	4,307,440	538.4	5,408,521	676.1
Total		14,194.5		14,658.3		15,134.4		16,010.7		17,330.9
%		24.90		24.51		24.71		26.37		27.02
Ceramic Industrial Minerals										
Ball clay	1,513,767	832.6	425,048	233.8	447,348	246.0	112,187	61.7	123,082	67.7
Ceramic Clay	929,162	511.0	404,129	222.3	60,327	33.2	77,358	42.6	312,963	172.1
Dolomite	2,451,990	858.2	2,556,765	894.9	2,608,997	913.1	2,487,135	870.5	2,471,486	865.0
Feldspar										
- Potassium (unground)	9,060	15.4	139,169	236.6	5,710	9.7	4,858	8.3	14,220	24.2

Mineral Production of Thailand 2010 - 2014

Quantity : Tonnes

Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Ceramic Industrial Minerals										
Feldspar										
- Sodium (ground)	120	0.2	-	-	-	-	-	-	-	-
- Sodium (unground)	632,720	442.9	901,983	631.4	1,095,013	766.5	1,067,798	747.5	1,399,208	979.4
Glass sand	323,985	113.4	221,721	77.6	434,094	151.9	876,085	306.6	1,083,174	379.1
Kaolin										
- Filler	3,837	7.3	4,329	8.2	300	0.6	-	-	-	-
- Unwashed	614,294	236.5	961,676	370.2	1,000,975	385.4	631,133	243.0	755,913	291.0
- Washed	125,527	120.5	134,531	129.2	141,764	136.1	119,512	114.7	124,094	119.1
Quartz										
- Ground	2,994	2.2	3,046	2.3	3,040	2.3	2,938	2.2	3,250	2.4
- Unground	41,070	30.8	120,310	90.2	112,200	84.2	127,500	95.6	98,340	73.8
Total		3,171.0		2,896.7		2,729.0		2,492.7		2,973.8
%		5.36		4.84		4.46		4.11		4.64
Dimension Stone										
Gneiss	-	-	60	0.2	140	0.6	30	0.1	-	-
Granite	6,123*	31.2	5,267*	26.9	5,505*	28.1	2,950*	17.4	2,976*	17.6
Limestone	34	0.1	27	0.1	60	0.1	135	0.3	60	0.1
Marble	12,097*	44.8	7,674*	28.4	7,222*	26.7	8,167*	31.9	11,123*	43.4
Sandstone	2,642	1.8	2,883	2.0	1,498	1.0	2,445	1.7	357	0.2
Travertine	1,760	3.5	900	1.8	900	1.8	-	-	5,103	10.2
Total		81.4		59.4		58.3		51.4		71.5
%		0.14		0.10		0.09		0.08		0.11

Mineral Production of Thailand 2010 - 2014

Quantity : Tonnes

Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Industrial Rock										
Andesite	1,209,235	163.2	945,587	127.7	1,009,690	136.3	1,109,138	149.7	952,515	128.6
Basalt	12,489,201	1,686.0	11,318,212	1,527.9	10,712,823	1,446.2	10,873,590	1,467.9	14,132,610	1,907.9
Granite	5,258,609	709.9	5,648,459	762.5	6,346,756	856.8	7,068,234	954.2	7,590,612	1,024.7
Graywacke	968,690	101.7	966,817	101.5	737,621	77.5	861,450	90.5	1,054,821	110.8
Limestone	69,834,022	7,332.6	78,280,420	8,219.4	79,235,275	8,319.7	86,749,513	9,108.7	88,690,378	9,312.5
Marble (fragment)	767,137*	249.3	501,563*	163.0	304,647*	99.0	484,202*	157.4	639,259*	207.8
Perlite	14,700	10.4	26,500	18.7	41,400	29.2	14,293	10.1	54,100	38.2
Quartz	5,000	0.5	29,220	3.1	289,560	30.4	263,353	27.7	93,241	9.8
Rhyolite	313,631	32.9	562,314	59.0	794,226	83.4	1,244,388	130.7	837,314	87.9
Sandstone	178,486	17.9	308,170	30.8	395,680	39.6	381,089	38.1	249,078	24.9
Total		10,304.4		11,013.6		11,118.1		12,135.0		12,853.1
%		18.08		18.41		18.15		19.99		20.04
Other Industrial Minerals										
Barite										
- Chemical grade (ground)	3,865	22.6	2,403	14.1	3,301	19.3	3,889	22.8	4,425	25.9
- Drilling mud (ground)	-	-	-	-	14,200	55.3	40,693	158.5	48,540	189.1
- Unground	29,600	44.0	65,300	96.9	46,998	69.8	62,855	93.3	81,996	121.8
Bentonite	130	0.1	55,220	33.1	141,000	84.6	150	0.1	-	-
Calcite	693,754	136.7	786,250	154.9	865,800	170.6	841,746	165.8	991,981	195.4
Diatomite	7,100	6.4	38,130	34.3	8,500	7.7	-	-	-	-

Mineral Production of Thailand 2010 - 2014

Quantity : Tonnes

Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Other Industrial Minerals										
Fluorite (metallurgical grade)	2,222	9.0	5,093	20.7	9,602	50.8	2,432	14.1	4,590	30.7
Limestone	3,705,376	444.6	4,284,432	514.1	5,049,423	605.9	6,103,618	732.4	5,881,632	705.8
Phosphate	35,783	14.9	3,300	1.4	1,990	0.8	350	0.1	500	0.2
Pyrophyllite	2,205	0.8	5,300	1.9	35,000	12.3	26,820	9.4	49,100	19.9
Rock salt	1,405,406	1,545.9	1,359,493	1,495.4	1,363,539	1,499.9	1,300,156	1,430.2	1,381,067	1,519.2
Talc (unground)	672	0.4	2,304	1.4	5,856	3.5	7,880	4.7	8,208	4.9
Total		2,225.4		2,368.2		2,580.5		2,631.4		2,812.9
%		3.90		3.96		4.21		4.33		4.38
Grand Total		57,004.3		59,817.5		61,253.7		60,712.2		64,150.9

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

Mineral Export of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Iron and Ferro Alloy</u>										
Columbium pentoxide powder	-	-	150	15.7	-	-	-	-	-	-
Iron ore	481,035	452.3	453,080	510.7	161,139	532.3	296,662	597.8	167,355	312.7
Manganese (metallurgical grade)	59,699	754.0	19,241	63.0	12,825	51.4	10,640	31.6	30,368	96.1
Tungsten										
- Scheelite	116	43.9	160	46.5	216	22.0	173	17.2	119	11.8
- Wolfram	347	2.3	204	3.1	-	-	60	1.7	16	1.1
Total		1,252.5		639.0		605.7		648.3		421.7
%		4.83		2.18		2.02		2.32		1.70
<u>Base Metals</u>										
Antimony ore	1,748	32.8	7,381	142.4	6,268	124.3	6,145	147.4	3,536	107.4
Copper										
- Metal	723	168.5	525	146.4	721	186.5	-	-	229	52.4
- Dross	44	14.7	-	-	-	-	-	-	8	3.4
- Powder	4	1.2	2	0.7	-	-	-	-	-	-
Tin										
- Tin dross	59	24.8	108	48.0	39	13.9	-	-	-	-
- Final slag	1,271	105.6	50	3.7	57	6.4	40	8.0	113	18.5
- Hard head	1,389	422.3	297	138.5	366	164.5	45	16.1	158	53.3
- Tin metal	19,363	12,694.3	20,015	16,387.6	19,628	13,248.0	19,721	13,483.4	13,890	9,150.4
- Metallic residue	-	-	-	-	20	12.5	-	-	-	-
- Tin-lead alloy	36	19.7	37	33.8	55	30.5	25	9.8	2	1.0
- Tin slag	-	-	74	4.4	-	-	-	-	-	-

Mineral Export of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Base Metals										
Zinc										
- Zinc alloy	114	6.6	142	10.5	96	5.2	42	2.2	-	-
- Zinc metal	4,522	329.1	10,555	714.5	7,137	441.1	1,086	87.7	2,569	199.4
Total		13,819.6		17,630.5		14,232.9		13,754.6		9,585.8
%		53.33		60.25		47.36		49.13		38.55
Precious Metals and Precious Stone										
Garnet	-	-	-	-	23	0.1	162	0.7	216	1.1
Gold metal (unit : gram)	4,045,567	5,022.9	2,860,229	4,425.4	4,895,021	8,119.9	4,418,889	6,105.7	4,513,594	5,967.1
Silver metal (unit : gram)	17,558,473	359.3	19,455,892	661.7	32,046,801	988.4	32,381,264	747.5	31,045,916	618.4
Total		5,382.2		5,087.1		9,108.4		6,853.9		6,586.6
%		20.77		17.38		30.31		24.48		26.49
Light Metals and Rare Earth										
Columbite-tantalite	-	-	-	-	-	-	-	-	50	7.1
Ilmenite	210	0.8	11,501	31.5	1,680	6.5	1,273	5.1	147	1.3
Leucoxene	2,017	33.3	3,744	65.3	2,397	60.3	1,729	46.3	1,447	35.9
Monazite	9,405	284.3	5,088	171.6	200	10.4	210	9.3	3,150	147.2
Rutile	2,298	38.5	2,715	53.2	617	21.2	410	14.4	194	5.6
Struverite	276	26.7	642	71.1	410	39.0	147	27.1	87	16.7
Xenotime	42	0.1	21	1.9	-	-	-	-	-	-
Zircon	7,576	133.3	11,202	277.3	5,122	176.9	8,681	277.8	10,738	273.7
Total		517.0		671.9		314.3		380.0		487.5
%		2.00		2.30		1.05		1.36		1.96

Mineral Export of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Cement Industrial Minerals										
Anhydrite										
- Anhydrite	600,990	308.7	704,550	344.0	788,906	401.3	1,171,407	611.4	1,111,151	630.0
- Ground	200	0.6	120	0.4	300	1.1	-	-	-	-
Gypsum										
- Ground	2,333	6.9	2,138	7.9	2,578	10.3	4,106	15.8	3,211	11.2
- Unground	6,993,620	3,572.8	7,753,028	3,791.7	8,117,121	4,151.4	8,186,862	4,342.0	9,041,755	5,092.7
Total		3,889.0		4,144.0		4,564.1		4,969.2		5,733.9
%		15.01		14.16		15.19		17.75		23.06
Ceramic Industrial Minerals										
Ball clay	30,316	146.3	15,205	68.6	13,591	66.9	19,733	87.7	23,514	190.5
Dolomite										
- Ground	102	0.5	89	0.4	165	0.7	3,129	0.9	4,434	1.1
- Unground	1,368,198	410.9	1,181,260	343.8	1,003,160	313.0	866,630	292.5	1,247,850	469.9
Feldspar										
- Potassium (ground)	-	-	72	0.2	-	-	-	-	30	0.1
- Sodium (ground)	383,181	317.6	608,297	449.0	717,565	603.0	735,693	596.0	883,072	770.5
- Sodium (unground)	66,300	50.9	8,200	3.6	-	-	-	-	-	-
Kaolin										
- Filler	-	-	-	-	-	-	400	2.5	-	-
- Unwashed	-	-	21	0.1	-	-	-	-	-	-
- Washed	5,629	24.5	8,636	37.0	9,488	58.7	11,489	53.1	13,312	69.8
Total		950.7		902.7		1,042.3		1,032.7		1,501.9
%		3.67		3.08		3.47		3.69		6.04

Mineral Export of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014		
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	
Industrial Rock											
Granite (industrial rock)	-	-	-	-	8,500	4.0	331,474	85.9	505,714	140.8	
Gravel (industrial rock)	938	2.9	685	2.0	489	1.9	626	2.4	573	2.8	
Limestone (industrial rock-construction)	256,548	88.5	329,743	132.1	319,765	110.6	475,446	185.9	823,086	296.6	
Total		91.4		134.1		116.5		274.2		440.2	
%		0.35		0.46		0.39		0.98		1.77	
Other Industrial Minerals											
Barite											
- Chemical grade (ground)	12	0.1	2,952	24.0	4,091	39.9	5,535	43.3	6,690	52.5	
- Drilling mud (ground)	-	-	-	-	-	-	-	-	1,512	8.5	
- Unground	-	-	-	-	-	-	-	-	40	0.2	
Fluorite											
- Metallurgical grade-ground	-	-	-	-	-	-	1,450	7.8	3,285	24.9	
- Metallurgical grade-unground	-	-	-	-	-	-	1,120	6.0	1,590	10.5	
- Metallurgical grade	-	-	-	-	26	0.2	-	-	-	-	
Limestone (industrial rock-others)	1,687	3.5	1,479	3.4	4,859	15.0	2,016	7.0	1,734	3.6	
Pyrophyllite	2,578	7.2	9,164	25.2	5,976	16.3	5,896	17.5	2,760	9.3	
Total		10.8		52.6		71.4		81.6		109.5	
%		0.04		0.18		0.24		0.29		0.44	
Grand Total			25,913.2		29,261.9		30,055.6		27,994.5		24,867.1

-: 0.0** = denoting the amount of less than 0.05 million baht

Mineral Consumption of Thailand 2010 - 2014

Quantity : Tonnes

Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Mineral Fuels and Energy										
Lignite	18,117,685	17,393.0	20,256,989	19,446.7	18,198,546	17,470.6	18,926,159	18,169.1	18,457,189	17,718.9
Total		17,393.0		19,446.7		17,470.6		18,169.1		17,718.9
%		33.99		36.45		34.79		35.39		33.23
Iron and Ferro Alloy										
Manganese (metallurgical grade)	54,415	157.8	-	-	1,118	4.3	3,575	18.2	2,730	13.5
Total		157.8		-		4.3		18.2		13.5
%		0.31		-		0.01		0.03		0.02
Base Metals										
Antimony ore	56	1.2	-	-	-	-	-	-	-	-
Tin										
- Tin metal	3,707	2,346.8	3,321	2,648.3	3,321	2,176.1	3,012	2,044.3	3,257	2,313.0
- Tin-lead alloy	1,037	n.a.	985	n.a.	833	n.a.	-	-	-	-
Zinc										
- Zinc alloy	30,873	2,380.1	36,253	2,746.8	34,735	2,324.3	32,493	2,134.8	29,833	2,379.2
- Zinc metal	61,142	4,390.3	54,410	3,802.8	51,960	3,266.0	33,168	2,039.5	28,638	2,079.0
Total		9,118.4		9,197.9		7,766.4		6,218.6		6,771.2
%		17.82		17.24		15.46		12.11		12.70
Precious Metals and Precious Stone										
Gem stone (unit : gram)	240	n.a.	-	-	-	-	-	-	-	-
Total		n.a.		-		-		-		-
%		-		-		-		-		-

Mineral Consumption of Thailand 2010 - 2014

Quantity : Tonnes

Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Cement Industrial Minerals</u>										
Anhydrite	32,634	16.5	3,240	1.6	25,150	12.4	-	-	142	0.1
Cement clay (industrial rock)	6,833,705	615.0	6,525,005	587.3	1,622,039	145.9	3,793,366	341.4	4,452,240	407.9
Gypsum (unground)	3,327,023	1,713.8	3,240,627	1,604.1	3,577,011	1,770.6	3,990,108	2,052.4	3,883,504	2,250.2
Limestone	60,614,383	7,273.7	62,530,873	7,503.7	63,783,890	7,654.1	65,731,000	7,887.7	66,468,509	7,976.2
Marl	69,550	5.9	69,000	5.9	113,100	9.6	13,300	1.1	3,000	0.3
Shale	4,126,822	515.9	4,343,767	543.0	4,698,855	587.4	4,028,571	503.6	5,313,821	664.2
Total		10,140.8		10,245.6		10,180.0		10,786.2		11,298.9
%		19.82		19.20		20.27		21.01		21.19
<u>Ceramic Industrial Minerals</u>										
Ball clay	253,292	139.3	324,283	178.4	227,150	124.9	328,729	180.8	295,379	162.5
Ceramic clay	233,286	128.3	276,466	152.1	67,847	37.3	138,723	76.3	220,093	121.1
Dolomite	722,216	252.8	1,194,362	418.0	970,750	339.8	1,163,580	407.3	1,328,785	465.1
Feldspar										
- Potassium (unground)	3,330	5.7	13,935	23.7	2,618	4.5	1,856	3.1	9,950	15.3
- Sodium (ground)	171,233	239.7	165,403	231.6	162,716	227.8	172,043	240.8	212,094	296.9
- Sodium (unground)	239,877	167.9	214,211	150.0	175,272	122.7	100,401	70.3	155,867	109.1
Glass sand	364,215	127.5	196,778	68.9	393,269	137.6	568,904	199.1	1,059,202	370.7
Kaolin										
- Filler	3,837	7.3	4,029	7.7	300	0.6	-	-	-	-
- Unwashed	404,635	155.8	634,639	244.3	962,495	370.6	574,731	221.3	661,055	254.5
- Washed	165,187	158.6	148,741	142.8	154,594	148.4	143,966	128.7	145,738	139.9

Mineral Consumption of Thailand 2010 - 2014

Quantity : Tonnes

Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Ceramic Industrial Minerals										
Quartz										
- Ground	2,908	2.2	4,706	3.5	3,237	2.4	2,737	2.1	3,093	2.3
- Unground	29,433	22.1	64,300	48.2	47,190	35.4	66,560	49.9	160,147	120.1
Total		1,407.2		1,669.2		1,552.0		1,579.7		2,057.5
%		2.75		3.13		3.09		3.08		3.86
Dimension Stone										
Gneiss	100	0.4	60	0.2	40	0.2	125	0.5	-	-
Granite	6,053*	30.9	6,069*	30.9	5,383*	27.5	4,210*	24.8	3,339*	19.7
Limestone	34	0.1	12	0.0**	60	0.1	135	0.3	60	0.1
Marble	182,996*	677.1	128,512*	475.5	26,457*	97.9	32,920*	128.4	7,338*	28.6
Sand stone	2,642	1.8	2,883	2.0	1,498	1.0	2,415	1.7	357	0.2
Travertine	1,720	3.4	900	1.8	900	1.8	-	-	1,103	2.2
Total		713.7		510.4		128.5		155.7		50.8
%		1.39		0.96		0.26		0.30		0.09
Industrial Rock										
Andesite	1,230,985	166.2	799,192	107.9	918,429	123.9	1,018,830	137.5	974,721	131.6
Basalt	12,164,953	1,642.3	10,985,713	1,483.1	10,450,773	1,410.9	10,228,376	1,380.2	13,980,299	1,887.3
Granite	4,199,593	566.9	5,013,445	676.8	5,293,829	714.7	7,601,333	1,026.2	6,925,257	934.9
Grawacke	914,307	96.0	934,171	91.1	810,849	85.1	769,942	80.8	1,018,120	106.9
Limestone	69,205,206	7,266.5	71,141,814	7,469.9	78,234,119	8,214.6	86,400,163	9,073.4	89,139,804	9,359.7
Marble (fragment)	1,078,912*	350.6	535,439*	174.0	221,766*	72.1	484,188*	157.4	624,357*	202.9
Perlite	11,634	8.2	13,796	9.7	12,687	7.7	14,293	10.1	12,200	8.6
Quartz	200	0.0**	15,576	1.6	194,460	20.4	226,585	23.7	95,665	10.0

Mineral Consumption of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Industrial Rock										
Rhyolite	334,891	35.2	647,913	68.0	609,717	64.0	861,707	90.5	818,859	85.9
Sand stone	187,048	18.7	301,811	30.2	322,860	32.3	316,637	31.7	259,635	26.0
Total		10,150.6		10,112.3		10,745.7		12,011.5		12,753.8
%		19.84		18.95		21.40		23.39		23.92
Other Industrial Minerals										
Barite										
- Drilling mud (ground)	-	-	-	-	13,956	54.4	21,707	84.5	48,540	189.1
- Unground	9,334	13.9	21,229	31.5	-	-	-	-	1,270	1.9
Bentonite	10,000	6.0	40,000	24.0	30,000	18.0	150	0.1	-	-
Calcite	578,500	113.9	439,759	86.6	803,377	158.3	839,246	165.3	975,020	192.1
Diatomite	7,625	6.9	11,300	10.2	27,060	24.4	-	-	-	-
Fluorite (metallurgical grade)	1,412	5.7	2,832	11.5	1,423	5.9	48	0.3	60	0.4
Other Industrial Minerals										
Limestone	3,383,776	406.1	4,304,560	516.6	5,137,747	616.5	5,816,898	698.0	6,262,694	751.5
Phosphate	2,316	1.0	344	0.1	1,799	0.7	264	0.1	500	0.2
Pyrophyllite	2,205	0.8	5,300	1.9	33,000	11.6	26,000	9.1	34,900	13.6
Rock salt	1,396,015	1,535.6	1,351,073	1,486.2	1,344,162	1,478.6	1,312,516	1,443.8	1,372,904	1,510.2
Talc (unground)	647	0.4	3,024	1.8	5,732	3.4	7,465	4.5	8,123	4.9
Total		2,090.3		2,170.4		2,371.8		2,405.7		2,663.9
%		4.08		4.07		4.72		4.69		4.99
Grand Total		51,171.8		53,352.5		50,219.3		51,344.7		53,328.5

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

Mineral Import of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Mineral Fuels and Energy</u>										
Anthracite	367,817	1,539.6	210,701	1,407.3	138,064	808.1	101,683	570.0	184,231	833.9
Bituminous coal	6,619,170	15,548.3	4,484,690	13,077.7	7,326,828	19,864.9	8,308,880	21,464.0	10,731,867	28,802.4
Coke	208,729	2,922.0	108,164	1,667.5	36,019	647.6	39,090	515.7	39,102	504.5
Lignite	79	1.2	15	0.3	481	16.2	4,870	24.8	35,502	50.5
Peat	7,770	64.7	9,644	81.7	8,239	69.9	9,182	79.7	10,662	96.7
Coal Solid Fuels from Coal	9,761,030	19,301.8	11,523,976	25,973.6	11,104,617	25,297.6	9,559,821	19,086.6	9,931,740	17,664.0
Total		39,377.6		42,208.1		46,704.3		41,740.8		47,952.0
%		70.11		71.35		74.25		75.19		75.58
<u>Iron and Ferro Alloy</u>										
Chromite ore	2,785	37.6	2,202	40.4	3,053	56.4	2,739	40.1	2,473	35.0
Columbite	-	-	196	81.0	30	26.7	117	88.5	10	5.5
Iron ore	457,508	1,689.8	161,427	770.2	16,217	69.8	5,774	41.6	4,422	35.2
Iron Pyrites	314	4.2	230	3.1	299	3.5	278	3.2	310	4.7
Manganese ore	4,530	17.8	18,633	42.8	24,282	52.8	18,017	38.3	18,518	37.3
Molybdenite ore	9,864	1,627.7	10,420	1,406.1	8,611	922.2	7,144	426.1	13,594	1,660.1
Nickel ore	0.2	0.1	4	4.2	0.1	0.2	-	-	45	3.6
Tungsten										
- Scheelite	-	-	-	-	-	-	-	0.0*	-	-
- Wolfram	7	0.6	39	2.9	21	1.8	5	1.3	3	0.8
- Other tungsten	-	0.0*	-	0.0*	-	-	-	-	-	-
Total		3,377.8		2,350.7		1,133.4		639.1		1,782.2
%		6.01		3.98		1.80		1.15		2.81

Mineral Import of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Base Metals</u>										
Aluminium ore	32,051	270.2	32,736	285.0	29,077	289.4	42,327	317.9	40,667	305.7
Antimony ore	4,356	134.6	8,803	263.1	6,949	145.2	8,290	218.6	4,392	145.0
Copper	374	4.9	352	4.1	1,735	7.4	6,666	37.3	9,502	56.8
Lead ore	283	5.5	32	0.7	2	0.0*	0*	0.0*	20	0.3
Tin ore	3,432	685.0	2,716	257.2	2,842	397.0	648	280.4	5,851	2,385.5
Zinc ore	174,586	3,781.4	125,818	3,273.4	139,625	3,090.1	119,896	2,451.5	41,747	999.0
Total		4,881.6		4,083.5		3,929.1		3,305.7		3,892.3
%		8.69		6.90		6.25		5.95		6.14
<u>Precious Metals and Precious Stone</u>										
Emery	4,812	53.6	4,804	52.7	32,712	115.7	7,093	74.3	17,953	173.3
Silver ore	25	1.3	19	1.7	-	-	12	1.2	12	1.2
Total		54.9		54.4		115.7		75.5		174.5
%		0.10		0.09		0.18		0.14		0.27
<u>Light Metals and Rare Earth</u>										
ilmenite ore	63	1.5	73	3.3	197	13.6	78	4.0	198	7.0
Niobium and Vanadium ore	11,863	1,101.8	8,075	686.1	13,165	1,602.7	12,810	1,656.3	14,050	1,084.7
Titanium ore										
- Rutile	7,276	77.8	6,684	181.5	5,492	460.1	3,991	220.3	6,799	241.1
- Leucoxene	8,080	215.2	3,389	104.6	3,461	265.6	2,540	128.5	1,700	59.0
- Ilmenite	840	8.0	680	8.2	900	21.2	900	17.2	1,160	18.1
- Other Titanium ore	1,003	27.6	1,035	67.3	1,044	22.1	1,161	15.0	2,064	25.5

Mineral Import of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Light Metals and Rare Earth</u>										
Thorium ore	0.02	0.1	20,069	114.8	1	0.1	-	-	-	-
Tantalite	-	-	483	946.8	652	675.3	42	77.0	182	356.2
Xenotime	-	-	-	-	60	0.7	-	-	-	-
Zirconium ore	47,451	493.1	46,633	1,351.6	12,334	615.0	35,696	506.8	51,545	629.1
Total		1,925.1		3,464.2		3,676.4		2,625.1		2,420.7
%		3.43		5.86		5.85		4.73		3.82
<u>Cement Industrial Minerals</u>										
Anhydrite	25	0.7	0*	0.0**	0*	0.0*	19	0.5	-	-
Gypsum	522	9.0	614	9.9	659	11.4	488	8.3	456	7.3
Limestone	3,256	4.3	6,842	14.6	3,421	1.9	3,057	3.3	3,046	3.9
Total		14.0		24.5		13.3		12.1		11.2
%		0.03		0.04		0.02		0.02		0.02
<u>Ceramic Industrial Minerals</u>										
Andalusite, Kyannite and Sillimanite	2,856	41.5	3,555	47.5	2,227	29.8	4,744	53.9	2,726	34.3
Attapulgit	146	1.1	412	3.2	250	4.6	20	0.8	276	7.5
Ball Clay	6,592	42.4	5,523	34.2	11,006	38.7	6,932	29.5	9,710	40.3
Dolomite	977	11.6	1,224	12.2	940	10.5	853	9.5	3,137	59.9
Feldspar										
- Potassium	25,928	81.4	33,342	104.6	35,505	115.1	30,395	94.6	36,000	117.6
- Sodium	3,010	11.1	3,772	13.8	2,140	10.4	5,871	20.9	2,807	11.6
- Other Feldspar	3,891	24.0	3,935	22.1	3,900	28.0	5,612	35.9	8,275	53.6

Mineral Import of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Ceramic Industrial Minerals</u>										
Kaolin										
- Ceramic	13,880	147.3	16,907	141.9	14,965	117.9	17,240	133.2	68,240	182.7
- Paper	5,918	62.5	4,423	42.7	4,404	41.1	3,166	29.6	7,486	74.7
- Others	65,956	536.9	65,691	543.5	68,868	663.2	69,061	639.9	66,833	697.6
Lucite, Nepheline and Nepheline Syenite	1,489	15.1	1,535	14.5	1,347	13.3	1,464	13.7	1,338	13.7
Mullite	1,771	26.1	1,671	23.3	1,661	23.6	2,115	29.2	1,898	28.9
Quartz	2,572	23.5	3,127	14.0	3,082	15.6	3,248	17.7	5,920	39.4
Silica sand	28,195	94.6	27,943	120.3	51,698	192.5	110,329	234.9	165,366	299.3
Total		1,119.1		1,137.8		1,304.2		1,343.3		1,661.1
%		1.99		1.92		2.07		2.42		2.62
<u>Dimension Stone</u>										
Ecaussine	2	0.0*	3	0.7	1	0.7	2,858	36.6	1,023	9.9
Marble	45,010	322.0	49,532	364.0	44,094	386.5	37,128	348.0	38,279	387.6
Granite	138,476	476.9	136,495	482.9	136,741	491.3	132,200	491.8	128,227	525.1
Travertine	0.1	0.0*	0*	0.1	0*	0.0*	0*	0.0*	17	0.2
Sandstone	1,508	26.1	473	3.6	768	10.9	220	2.6	823	11.6
Slate	346	4.4	21	0.3	93	0.6	117	0.8	150	1.0
Total		829.4		851.6		890.0		879.8		935.4
%		1.48		1.44		1.42		1.59		1.47

Mineral Import of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Industrial Rock										
Basalt	268,812	102.3	57,240	104.0	39,126	113.2	25,392	163.8	25,937	166.5
Flint	6,503	15.2	45,200	22.9	1,766	12.7	1,345	10.9	30,663	18.9
Pumice stone	5,286	56.5	5,077	58.7	5,275	65.9	5,475	58.4	5,035	51.6
Vermiculite, Perlite and Chlorites	1,944	14.9	3,133	28.8	4,901	39.9	3,859	34.5	4,617	48.3
Total		188.9		214.4		231.7		267.6		285.3
%		0.34		0.36		0.37		0.48		0.45
Other Industrial Minerals										
Apatite										
- Ground	3,140	39.5	2,705	17.8	1,763	7.1	1,292	6.5	1,427	6.2
- Unground	-	-	2	0.0*	-	0.0*	-	-	-	-
Asbestos	79,250	1,121.5	81,411	1,111.9	58,037	839.5	53,130	826.9	42,625	684.0
Barite	78,862	274.1	94,650	399.2	104,668	509.8	67,537	285.9	65,236	202.0
Bentonite	65,096	408.2	103,555	505.9	83,377	555.1	103,228	639.3	101,284	665.3
Calcite	-	-	-	-	12	0.1	60	0.2	41	0.2
Chalk	31	1.2	62	1.6	53	1.8	67	1.4	81	2.5
Fireclay	4,688	61.6	1,621	20.6	729	9.8	618	10.6	553	6.6
Fluorite	508	9.8	1,022	18.0	555	12.1	578	12.2	545	12.1
Kieserite	2,847	17.1	8,062	57.6	11,172	68.0	10,444	59.0	4,848	27.8
Mica	5,504	125.3	4,860	128.8	4,577	140.7	4,504	119.6	4,392	122.2
Orpiment	0.1	0.0*	1	0.0*	20	1.0	163	1.0	0.1	0.0*

Mineral Import of Thailand 2010 - 2014

Quantity : Tonnes
Value : Million Baht

Mineral	2010		2011		2012		2013		2014	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Other Industrial Minerals (Continue)										
Phosphate										
- Ground	356	3.0	71	0.7	-	0.0*	0*	0.0*	1	0.03
- Underground	11,000	25.0	1	0.1	-	-	-	-	-	-
Graphite	1,372	75.9	1,397	98.2	1,398	113.2	2,121	118.1	3,300	119.7
Magnesite	3,530	48.8	4,429	62.7	4,867	52.6	7,073	92.5	7,146	81.1
Steatite	2,295	11.6	1,451	10.1	2,014	22.4	927	12.0	805	15.2
Pyrophyllite	-	-	-	-	56	1.0	42	0.7	1	0.5
Rock salt	1	0.0*	5	0.1	-	-	-	-	-	-
Sulphur	132,199	713.9	125,722	937.7	102,175	760.4	137,587	685.0	115,426	715.5
Talc	135,219	1,452.9	126,254	1,380.8	138,694	1,786.2	143,049	1,751.1	137,228	1,662.8
Witherite	501	4.7	1,149	16.6	1,500	21.6	325	4.3	191	2.6
Total		4,394.1		4,768.4		4,902.4		4,626.3		4,326.3
%		7.82		8.06		7.79		8.33		6.82
Grand Total		56,162.5		59,157.6		62,900.6		55,515.3		63,441.0

:- 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 2010-2014

unit: Thousand Baht

Mineral	2010	2011	2012	2013	2014
Andesite (Industrial rock)	7,318.19	6,663.09	5,903.14	5,178.40	6,013.60
Anhydrite	12,399.08	13,914.01	18,175.13	20,339.39	24,734.44
Antimony	1,104.75	690.71	257.21	265.88	96.82
Ball clay	8,172.66	7,656.37	5,518.41	7,493.89	7,733.67
Barite					
- Chemical grade (ground)	231.66	258.66	389.95	629.90	505.73
- Drilling mud (ground)	-	-	1,090.60	1,939.09	4,221.71
- Unground	3,838.87	2,835.16	4,471.83	6,062.26	6,068.60
Basalt (Industrial rock)	67,462.88	66,577.69	69,492.32	62,089.98	74,171.29
Bentonite	240.00	1,200.00	3,120.00	3.60	-
Calcite	5,683.93	6,673.37	6,874.60	7,102.49	7,920.97
Cement clay	24,984.02	33,232.04	19,520.73	10,609.27	16,138.34
Ceramic clay	9,861.71	10,411.74	9,513.17	2,676.63	5,454.53
Conglomerate (Industrial rock)	298.60	345.36	16.80	-	-
Copper Ore	5,329.39	4,217.55	4,954.11	-	1,315.19
Diatomite	137.25	203.40	730.62	-	-
Dolomite	36,937.79	38,103.36	33,152.83	32,503.50	42,889.31
Feldspar					
- Potassium (ground)	24.00	-	96.00	145.92	192.96
- Potassium (unground)	212.84	1,180.82	189.18	784.49	676.60
- Sodium (ground)	9,709.42	7,155.24	10,591.08	10,936.02	13,184.47
- Sodium (unground)	9,842.18	17,424.37	22,526.08	20,932.59	26,398.65
Fluorite	1,285.60	2,674.31	6,063.72	8,364.24	18,282.20
Garnet	12.00	12.00	-	12.00	-
Glass sand	9,559.81	2,555.22	6,630.97	8,866.81	14,534.21
Gneiss (Dimension stone)	16.00	16.00	24.00	25.60	224.80

Mineral Royalty of Thailand 2010-2014

unit: Thousand Baht

Mineral	2010	2011	2012	2013	2014
Gold Ore	387,933.06	419,771.42	828,741.64	518,734.38	485,845.66
Granite					
- Dimension stone	1,246.63	1,131.02	807.59	777.48	970.58
- Industrial rock	27,005.11	30,038.53	30,695.23	45,681.69	41,886.29
Graywacke	2,408.26	3,108.08	3,150.29	3,119.61	4,740.04
Gypsum	214,696.61	216,150.76	231,672.08	255,417.03	302,309.40
Ilmenite	-	58.42	69.20	63.61	-
Iron Ore	76,185.71	31,556.92	16,663.98	24,369.89	24,901.21
Kaolin					
- Filler	881.34	1,001.60	1,164.07	1,269.98	874.76
- Unwashed	7,334.57	12,770.39	15,161.50	9,458.11	10,503.75
- Washed	4,787.02	5,121.76	5,231.61	5,752.76	4,873.44
Lignite	713,015.84	769,432.59	698,853.48	726,748.80	708,759.88
Limestone					
- Dimension stone	2.88	2.16	0.96	1.20	-
- Industrial rock-construction	316,833.66	307,195.92	370,631.85	387,773.22	391,663.35
- Industrial rock-cement	518,157.58	519,311.47	532,792.66	520,648.24	600,813.37
- Industrial rock-others	17,727.08	21,026.40	25,421.63	30,120.18	36,234.68
Manganese (Metallurgical grade)	4,437.58	-	162.01	1,208.95	720.25
Marble					
- Dimension stone	1,655.36	1,165.93	1,505.06	1,174.48	1,867.52
- Fragment	16,554.04	5,564.77	4,064.86	6,891.69	7,126.04
Marl	255.85	262.14	452.20	348.16	564.16
Monazite	282.50	83.73	50.47	156.49	-
Perlite (Industrial rock)	537.18	474.32	520.86	403.63	390.05

Mineral Royalty of Thailand 2010-2014

unit: Thousand Baht

Mineral	2010	2011	2012	2013	2014
Phosphate	117.31	90.52	36.61	101.62	6.32
Pyrophyllite	225.05	152.74	490.00	424.54	610.61
Quartz	2,154.38	2,938.82	3,084.48	3,181.14	5,264.40
Rhyolite (Industrial rock)	1,439.41	1,827.48	2,560.81	3,619.17	3,439.21
Rock salt	62,260.00	56,584.00	59,356.00	58,124.00	61,160.00
Rutile	-	25.54	-	-	-
Sand Stone					
- Dimension stone	75.29	78.88	49.71	59.10	7.96
- Industrial rock	721.08	1,265.28	1,438.04	1,573.68	1,635.90
Scheelite	1,653.54	1,062.41	1,170.87	1,057.83	672.24
Shale (Industrial rock-cement)	36,536.86	40,500.82	41,908.04	35,305.14	50,276.73
Silver Ore	36,175.78	66,052.69	98,992.78	74,524.46	61,863.29
Struverite	78.81	2,622.15	109.33	1,530.00	542.21
Talc	14.98	50.69	142.85	186.62	196.99
Tin	11,912.33	20,529.68	10,389.14	7,679.80	7,746.66
Tin Slag (Ta ₂ O ₅ <13%)	27.93	-	1.74	-	-
Tin Slag (Ta ₂ O ₅ <5%)	-	166.01	-	-	-
Travertine (Dimension)	189.60	73.60	106.40	-	182.32
Wolfram	1,690.58	816.68	3.47	203.75	137.52
Xenotime	60.83	149.98	-	72.72	45.45
Zinc					
- Metal	38,191.39	33,331.97	42,703.11	32,314.07	54,954.52
- Ore	-	-	-	-	20.49
Zircon	-	45.35	-	-	107.48
Total	2,720,125.64	2,797,594.06	3,259,659.11	2,967,039.20	3,144,672.84