

Statistics Report

No. BITC 1/2555

Mineral Statistics of Thailand

2007 – 2011

Statistics Group

Bureau of Information Technology and Communication

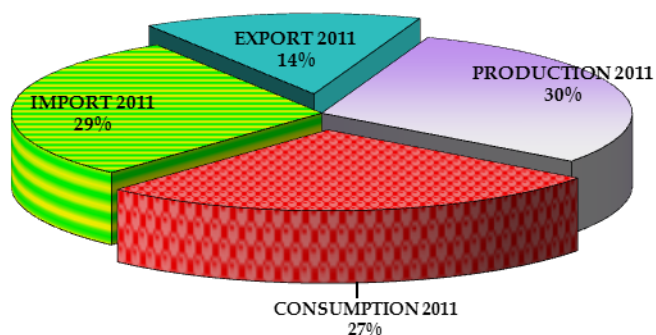
Department of Primary Industries and Mines

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ANDESITE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Phetchabun	442,277	396,086	410,259	447,104	307,040
Uttaradit	785,177	604,906	520,396	761,131	638,547
Northeastern Region					
Loei	-	-	-	1,000	-
Central Region					
Sara Buri	175,101	-	-	-	-
Total Production	1,402,555	1,000,992	930,655	1,209,235	945,587
Value (Million Baht)	140.3	114.2	125.6	163.2	127.7
<u>Consumption</u>					
Total Consumption	1,265,647	980,541	765,806	1,230,985	799,192
Value (Million Baht)	126.6	112.2	103.4	166.2	107.9

ANHYDRITE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Phichit	300	-	-	-	-
Nakhon Sawan	200	-	120	860	3,240
Southern Region					
Nakhon Si Thammarat	19,300	47,340	-	28,700	49,530
Surat Thani	673,077	441,341	633,700	506,560	561,378
Total Production	692,877	488,681	633,820	536,120	614,148
Value (Million Baht)	317.5	219.6	350.2	279.3	304.0
<u>Export</u>					
1. Ground					
Asia					
Japan	12,140	460	160	200	120
Korea, South	6,200	-	-	-	-
Total Export	18340	460	160	200	120
Value (Million Baht)	9.0	1.5	0.5	0.6	0.4
2. Unground					
Asia					
China	-	-	-	4,070	-
India	-	38,020	-	37,650	45,000
Indonesia	-	-	-	-	8,000
Japan	256,250	212,949	317,720	344,010	383,100
Korea, South	201,675	240,205	169,100	140,160	195,300
Malaysia	64,600	79,540	47,000	57,100	49,650
Philippines	-	18,513	-	-	-
Vietnam	-	-	-	18,000	23,500
Total Export	522,525	589,227	533,820	600,990	704,550
Value (Million Baht)	236.1	276.4	291.2	308.7	344.0

Tonnes

	2007	2008	2009	2010	2011
<u>Consumption</u>					
Total Consumption	58,360	13,748	-	32,634	3,290
Value (Million Baht)	26.7	6.1	-	16.5	1.6
<u>Import</u>					
Total Import	126	0**	4	25	0**
Value (Million Baht)	1.1	0.0*	0.0*	0.7	0.0*

0** denoting the amount of less than 0.1 tonnes

0.0* denoting the amount of less than 0.05 million baht

ANTHRACITE

Tonnes

	2007	2008	2009	2010	2011
<u>Import</u>					
Total Import	305,460	242,197	677,522	367,817	210,701
Value (Million Baht)	836.4	1,280.4	2,209.5	1,539.6	1,407.3

A N T I M O N Y

Tonnes

		2007	2008	2009	2010	2011
<u>Production</u>						
Southern Region						
Satun	Ore	-	-	35	738	56
	Low grade	-	-	-	-	172
Total Production	Ore	-	-	35	738	56
	Low grade	-	-	-	-	172
Value (Million Baht)	Ore	-	-	1.0	21.3	1.6
	Low grade	-	-	-	-	n.a.
<u>Export</u>						
Ore						
Asia						
China		108	253	400	1,310	5,323
Hong Kong		52	-	98	404	1,884
India		10	-	41	-	-
Korea, South		-	-	-	-	100
Laos		-	-	-	34	-
Malaysia		-	-	-	-	24
Taiwan		-	-	-	-	50
Total Export		170	253	539	1,748	7,381
Value (Million Baht)		5.8	5.1	7.5	32.8	142.4
<u>Consumption</u>						
Total Consumption		-	-	-	56	-
Value (Million Baht)		-	-	-	1.2	-
<u>Import</u>						
Total Import		1,072	1,218	1,496	4,356	8,803
Value (Million Baht)		15.3	22.0	23.8	134.6	263.1

BALL CLAY

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Chiang Rai	2,050	3,780	7,350	34,595	3,600
Lampang	539,523	1,447,753	2,251,495	1,397,969	346,435
Central Region					
Prachin Buri	1,380	1,474	260	363	306
Sara Buri	20,400	31,250	52,520	80,840	74,120
Southern Region					
Nakhon Si Thammarat	-	15,736	1,000	-	690
Total Production	563,353	1,499,993	2,312,625	1,513,767	425,151
Value (Million Baht)	309.8	824.9	1,271.9	832.6	233.8
<u>Export</u>					
Asia					
Bangladesh	-	-	-	1	300
China	7,600	4,120	3,373	1,638	2,400
India	379	1,000	469	989	1,000
Indonesia	8,784	11,839	7,892	12,480	1,614
Korea, South	580	480	700	704	160
Malaysia	10,669	8,254	9,525	9,335	5,015
Philippines	129	356	264	600	128
Sri Lanka	-	2	-	-	-
Taiwan	272	384	264	288	-
Vietnam	3,700	3,337	3,256	4,280	4,588
Europe					
Germany	-	-	-	1	-
Total Export	32,113	29,772	25,743	30,316	15,205
Value (Million Baht)	143.8	111.7	122.5	146.3	68.6

Tonnes

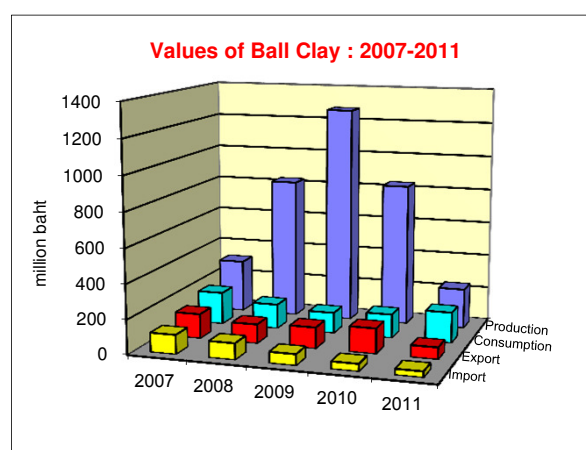
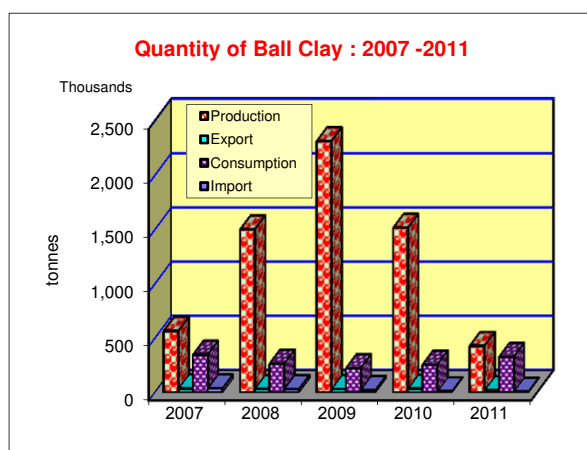
	2007	2008	2009	2010	2011
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Consumption

Total Consumption	345,179	262,598	221,472	253,292	324,386
Value (Million Baht)	189.9	144.4	121.8	139.3	178.4

Import

Total Import	33,579	28,981	20,508	6,592	5,463
Value (Million Baht)	111.8	94.3	64.2	42.4	33.8



B A R I T E

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
1. Ground (Chemical grade)					
Northeastern Region					
Loei	4,322	2,480	1,985	3,865	2,403
Total Production	4,322	2,480	1,985	3,865	2,403
Value (Million Baht)	25.4	14.5	11.6	22.6	14.1
2. Unground					
Northern Region					
Phayao	-	-	1,000	1,800	-
Northeastern Region					
Loei	-	300	-	-	-
Udon Thani	-	-	-	-	45,000
Southern Region					
Nakhon Si Thammarat	4,309	6,400	48,910	27,800	20,300
Total Production	4,309	6,700	49,910	29,600	65,300
Value (Million Baht)	6.4	9.9	74.1	44.0	97.0

0.0* denoting the amount of less than 0.05 million baht

Tonnes

	2007	2008	2009	2010	2011
<u>Export</u>					
1. Ground(Chemical grade)					
Africa					
Mauritius	-	-	-	-	25
South Africa	52	21	-	-	21
Asia					
China	160	-	-	-	-
Egypt	21	-	-	-	-
Hong Kong	60	40	-	-	40
Indonesia	-	-	-	-	68
Japan	598	299	-	-	935
Jordan	82	-	-	-	20
Korea, South	147	126	-	-	175
Malaysia	155	5,722	17,008	12	338
Singapore	1,200	260	-	-	105
Taiwan	252	315	-	-	357
Vietnam	-	-	-	-	200
Australia / Oceania					
Australia	1,350	218	-	-	624
New Zealand	44	22	-	-	44
Total Export	4,121	7,023	17,008	12	2,952
Value (Million Baht)	24.8	31.2	34.4	0.1	24.0
<u>Consumption</u>					
1. Ground (Chemical)	1,025	-	49	-	-
Value (Million Baht)	6.1	-	0.3	-	-
2. Ground (Drilling mud)	800	-	-	-	-
Value (Million Baht)	3.1	-	-	-	-
3. Unground	2,140	6,210	10,420	9,334	21,229
Value (Million Baht)	3.2	9.2	15.5	13.9	31.5
<u>Import</u>					
Total Import	78,408	96,433	57,452	78,862	94,650
Value (Million Baht)	228.6	391.6	178.7	274.1	399.2

B A S A L T

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northeastern Region					
Buri Ram	3,121,602	2,713,393	3,712,789	4,322,951	4,310,095
Nakhon Ratchasima	1,251,812	1,190,985	1,299,552	1,373,600	1,286,013
Si Sa ket	291,624	182,981	221,414	438,856	133,072
Surin	3,345,219	3,107,404	3,706,377	4,480,852	3,826,236
Ubon Ratchathani	1,778,814	1,661,830	1,580,624	1,871,741	1,762,796
Central Region					
Trat	153,618	20,959	1,200	1,200	67,035
Total Production	9,942,689	8,877,552	10,521,955	12,489,201	11,385,247
Value (Million Baht)	994.3	1,026.9	1,420.5	1,686.0	1,537.0
<u>Consumption</u>					
Total Consumption	9,558,772	8,736,654	10,878,292	12,164,953	10,985,713
Value (Million Baht)	955.9	1,010.7	1,468.6	1,642.3	1,483.1
<u>Import</u>					
Total Import	18,992	20,857	17,091	268,767	57,184
Value (Million Baht)	95.8	112.4	98.8	102.3	103.5

BENTONITE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Central Region					
Lop Buri	650	210	110	130	55,220
Total Production	650	210	110	130	55,220
Value (Million Baht)	0.4	0.1	0.1	0.1	33.1
<u>Consumption</u>					
Total Consumption	-	-	10,000	10,000	40,000
Value (Million Baht)	-	-	6.0	6.0	24.0
<u>Import</u>					
Total Import	39,345	54,345	42,429	65,096	103,555
Value (Million Baht)	207.9	378.4	272.5	408.2	505.9

CADMIUM METAL

Tonnes

	2007	2008	2009	2010	2011
<u>Consumption</u>					
Total Consumption	25	-	-	-	-
Value (Million Baht)	8.6	-	-	-	-

CALCITE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Lamphun	-	-	25	-	-
Tak	-	686	-	-	-
Uttaradit	1,650	4,300	3,160	10,330	3,200
Central Region					
Lop Buri	670,930	818,720	540,834	683,424	783,050
Total Production	672,580	823,706	544,019	693,754	786,250
Value (Million Baht)	132.5	162.3	107.2	136.7	154.9
<u>Consumption</u>					
Total Consumption	677,601	817,801	477,732	578,500	439,759
Value (Million Baht)	133.5	161.1	94.1	113.9	86.6
<u>Import</u>					
Total Import	1,672	1,109	-	-	-
Value (Million Baht)	5.4	3.5	-	-	-

CEMENT CLAY

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Lampang	-	97,677	74,224	443,966	143,475
Nakhon Sawan	-	375,600	-	76,525	34,699
Northeastern Region					
Nakhon Ratchasima	-	418,453	695,256	2,709,729	272,360
Central Region					
Lop Buri	27,757	169,761	236,511	226,014	962,414
Prachin Buri	-	205,000	232,377	1,093,728	431,000
Ratcha Buri	-	11,500	15,000	-	-
Sara Buri	43,258	1,246,219	2,629,811	2,849,061	4,130,813
Sing Buri	-	-	-	10,000	-
Southern Region					
Krabi	-	-	-	-	219,087
Nakhon Si Thammarat	45,167	1,229,407	1,011,150	841,800	2,378,036
Total Production	116,182	3,753,617	4,894,329	8,250,823	8,571,884
Value (Million Baht)	10.5	337.8	440.5	742.6	771.5
<u>Consumption</u>					
Total Consumption	94,999	3,692,042	4,876,744	6,833,705	6,525,005
Value (Million Baht)	8.5	332.3	438.9	615.0	587.3

C E R A M I C C L A Y

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Chiang Rai	-	600	9,113	12,044	37,173
Lampang	75	5,067	4,651	9,148	164,076
Northeastern Region					
Chaiyaphum	-	-	111,700	547,000	-
Nakhon Ratchasima	-	-	-	-	180,956
Central Region					
Nakhon Nayok	-	185,960	-	-	-
Sara Buri	-	114,500	128,500	188,470	21,924
Sing Buri	-	35,100	18,500	172,500	-
Total Production	75	341,227	272,464	929,162	404,129
Value (Million Baht)	0.0*	187.7	149.9	511.0	222.3
<u>Consumption</u>					
Total Consumption	45	135,241	226,849	233,286	276,466
Value (Million Baht)	0.0*	74.4	124.8	128.3	152.1

0.0* denoting the amount of less than 0.05 million baht

C O P P E R

Tonnes

	2007	2008	2009	2010	2011
<u>Production (ore)</u>					
Northeastern Region					
Loei	0.5	0.5	0.2	723	525
Total Production	0.5	0.5	0.2	723	525
Value (Million Baht)	0.1	0.1	0.0*	168.5	146.4
<u>Export</u>					
1. Ore					
Asia					
Hong Kong	0.5	0.5	0.2	723	525
Total Export	0.5	0.5	0.2	723	525
Value (Million Baht)	0.1	0.1	0.0*	168.5	146.4
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
<u>Consumption (metal)</u>					
Total Consumption	514	419	441	833	1,824
Value (Million Baht)	87.3	109.6	76.9	193.5	515.3
<u>Import (ore)</u>					
Total Import	74,624	16	25	374	352
Value (Million Baht)	4,635.5	0.2	0.6	4.9	4.1

0.0* denoting the amount of less than 0.05 million baht

DIATOMITE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Lampang	1,260	4,075	5,600	7,100	38,130
Total Production	1,260	4,075	5,600	7,100	38,130
Value (Million Baht)	1.1	3.7	5.0	6.4	34.3
<u>Consumption</u>					
Total Consumption	1,700	4,400	5,730	7,625	11,300
Value (Million Baht)	1.5	4.0	5.2	6.9	10.2

DOLOMITE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Phetchabun	8,600	11,000	12,200	9,700	9,710
Phrae	6,200	4,805	4,800	4,800	2,380
Central Region					
Kanchanaburi	154,596	246,450	247,050	330,750	588,047
Southern Region					
Krabi	94,487	120,500	88,047	80,000	102,000
Phangnga	115,776	184,498	134,582	121,679	98,593
Surat Thani	623,890	735,890	1,414,313	1,838,467	1,752,370
Trang	104,876	50,620	63,418	66,594	3,665
Total Production	1,108,425	1,353,763	1,964,410	2,451,990	2,556,765
Value (Million Baht)	387.9	473.8	587.5	858.2	894.9

Export

1. Ground

Asia

Bangladesh	-	12	-	6	30
Japan	40	1,000	80	-	-
Laos	-	-	3	6	-
Malaysia	558	596	78	-	-
Myanmar	45	22	1400	-	-
Philippines	-	-	84	90	59

Total Export	643	1,630	1,644	102	89
Value (Million Baht)	4.7	4.3	1.4	0.5	0.4

2. Unground

Asia

India	-	-	278,500	572,130	452,620
Japan	669,210	701,070	561,580	789,140	728,640
Malaysia	56	1,176	128	128	-
Philippines	-	300	-	-	-
Vietnam	-	-	-	6,800	-

Total Export	669,266	702,546	840,208	1,368,198	1,181,260
Value (Million Baht)	166.8	201.6	264.5	410.9	343.8

Tonnes

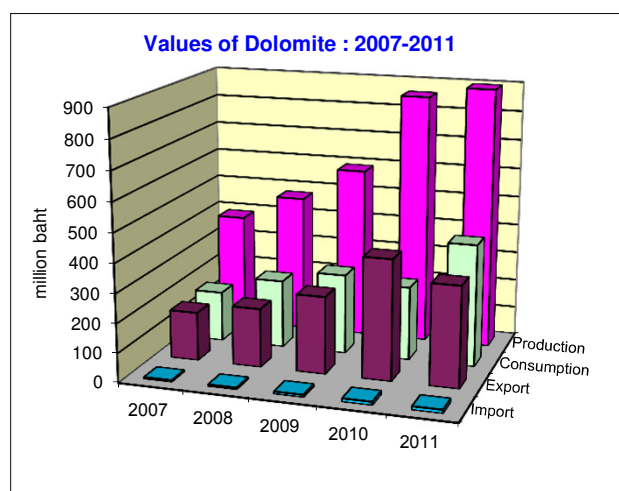
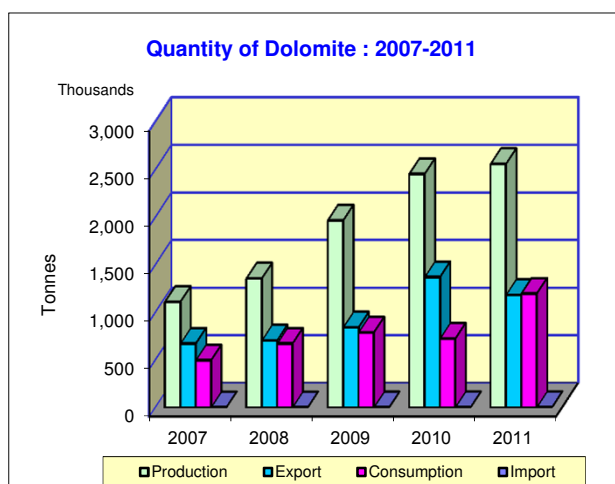
	2007	2008	2009	2010	2011
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Consumption

Total Consumption	494,183	669,702	786,973	722,216	1,194,362
Value (Million Baht)	173.0	234.4	275.4	252.8	418.0

Import

Total Import	505	502	595	977	1,224
Value (Million Baht)	6.2	6.3	8.5	11.6	12.2



F E L D S P A R

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
1. Potassium Feldspar (Ground)					
Northern Region					
Tak	-	123	120	-	-
Total Production	-	123	120	-	-
Value (Million Baht)	-	0.3	0.3	-	-
2. Potassium Feldspar (Unground)					
Central Region					
Kanchanaburi	2,330	330	9,630	8,920	138,500
Prachuap Khiri Khan	108	93	142	140	169
Total Production	2,438	423	9,772	9,060	138,669
Value (Million Baht)	4.1	0.7	16.6	15.4	235.7
3. Sodium Feldspar (Ground)					
Northern Region					
Tak	9,685	3,191	65	120	-
Total Production	9,685	3,191	65	120	-
Value (Million Bath)	13.6	4.5	0.1	0.2	-
4. Sodium Feldspar (Unground)					
Northern Region					
Tak	172,935	144,006	162,648	164,047	132,493
Central Region					
Kanchanaburi	25,500	-	1,260	920	640
Ratchaburi	59,200	41,300	67,300	90,900	98,350
Southern Region					
Nakhon Si Thammarat	414,910	481,575	477,527	376,853	671,000
Total Production	672,545	666,881	708,735	632,720	902,483
Value (Million Bath)	470.8	466.8	496.1	442.9	631.7

	Tonnes				
	2007	2008	2009	2010	2011
<u>Export</u>					
1. Potassium Feldspar (Ground)					
Asia					
Vietnam	-	-	-	-	72
Total Export	-	-	-	-	72
Value (Million Baht)	-	-	-	-	0.2
2. Sodium Feldspar (Ground)					
Asia					
Bangladesh	14,300	8,810	12,400	23,300	24,700
China	-	54,750	-	-	-
Hong Kong	16,500	-	-	62,900	-
India	28,250	-	6,300	15,800	56,800
Indonesia	24,224	41,791	38,852	60,452	71,189
Japan	90	-	-	-	-
Kuwait	-	28,599	-	-	-
Malaysia	80,457	56,158	66,998	108,732	186,903
Myanmar	-	10	-	-	14
Singapore	8,500	-	-	-	-
U.A.E.	87,750	170,300	159,600	87,537	243,874
Vietnam	34,761	53,496	40,453	24,461	24,817
Europe					
U.K	-	-	51,400	-	-
Total Export	294,832	413,914	376,003	383,181	608,297
Value (Million Baht)	230.6	330.8	289.1	317.6	449.0
3. Sodium Feldspar (Unground)					
Asia					
Bangladesh	26,500	19,358	-	-	-
India	-	-	-	-	8,200
Indonesia	-	-	-	17,500	-
Malaysia	61,095	11,616	-	17,300	-
U.A.E.	116,256	101,164	-	31,500	-
Vietnam	8,500	20,933	-	-	-
Total Export	212,351	153,071	-	66,300	8,200
Value (Million Baht)	143.6	104.2	-	50.9	3.6

Tonnes

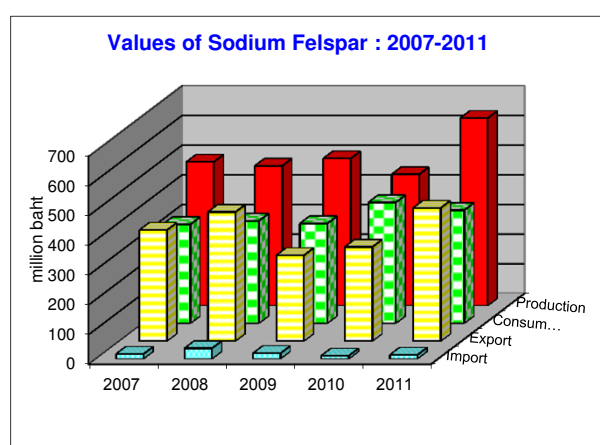
	2007	2008	2009	2010	2011
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Consumption

1. Potassium Feldspar - ground	-	45	52	-	-
Value (Million Baht)	-	0.1	0.1	-	-
2. Potassium Feldspar - Unground	2,070	1,004	2,906	3,330	13,935
Value (Million Baht)	3.6	1.7	4.9	5.7	23.7
3. Sodium Feldspar - ground	193,860	201,745	170,723	171,233	165,403
Value (Million Baht)	271.4	282.4	239.0	239.7	231.6
4. Sodium Feldspar - Unground	89,245	90,205	139,750	239,877	214,211
Value (Million Baht)	62.5	63.1	97.8	167.9	150.0

Import

1. Potassium Feldspar	34,448	32,446	28,996	25,928	33,342
Value (Million Baht)	70.9	100.9	89.5	81.4	104.6
2. Sodium Feldspar	7,098	16,592	7,850	3,010	3,772
Value (Million Baht)	16.8	35.8	19.0	11.1	13.8
3. Other Feldspar	15,598	14,339	3,590	3,891	3,935
Value (Million Baht)	47.3	49.4	22.3	24.0	22.1



FLUORITE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Lamphun	30	16,079	81,670	694	4,393
Mae Hong Son	1,790	10,039	3,775	1,465	-
Phrae	-	-	-	63	700
Central Region					
Kanchanaburi	-	-	920	-	-
Total Production	1,820	26,118	86,365	2,222	5,093
Value (Million Baht)	7.4	106.2	351.1	9.0	20.7
<u>Consumption</u>					
Total Consumption	3,182	19,756	7,622	1,412	2,832
Value (Million Baht)	12.9	80.3	30.9	5.7	11.5
<u>Import</u>					
Total Import	619	841	472	508	1022
Value (Million Baht)	12.7	11.2	10.8	9.8	18.0

G E M S T O N E

Gram

	2007	2008	2009	2010	2011
<u>Production</u>					
Central Region					
Kanchanaburi	20,490	6,381	570	240	-
Total Production	20,490	6,381	570	240	-
Value (Million Baht)	n.a.	n.a.	n.a.	n.a.	-
<u>Consumption</u>					
Total Consumption	20,789	6,378	610	240	-
Value (Million Baht)	n.a.	n.a.	n.a.	n.a.	-

GLASS SAND

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Central Region					
Chanthaburi	262,291	220,278	193,485	108,790	117,470
Rayong	576,780	273,470	162,050	215,195	102,851
Trat	5,000	2,100	2,050	-	-
Southern Region					
Chumphon	-	-	-	-	1,400
Total Production	844,071	495,848	357,585	323,985	221,721
Value (Million Baht)	295.4	173.5	125.2	113.4	77.6
<u>Consumption</u>					
Total Consumption	828,020	486,790	355,133	364,215	196,778
Value (Million Baht)	289.8	170.4	124.3	127.5	68.9
<u>Import</u>					
Total Import	58,251	66,685	31,013	28,195	27,943
Value (Million Baht)	168.4	258.3	106.2	94.6	120.3

G N E I S S

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Central Region					
Prachuap Khiri Khan	150	-	-	-	60
Total Production	150	-	-	-	60
Value (Million Baht)	0.6	-	-	-	0.2
<u>Consumption</u>					
Total Consumption	42	109	46	100	80
Value (Million Baht)	0.2	0.4	0.2	0.4	0.2

G O L D

Gram

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Phetchabun	1,246,475	283,190	1,747,780	1,236,195	1,190,055
Phichit	1,226,385	1,434,150	2,776,730	2,117,256	1,079,763
Northeastern Region					
Loei	928,524	1,003,806	341,623	692,116	590,401
Total Production	3,401,384	2,721,146	4,866,133	4,045,567	2,860,219
Value (Million Baht)	2,610.4	2,527.7	5,235.0	5,023.0	4,425.4
<u>Export</u>					
Asia					
Hong Kong	3,401,384	2,721,146	4,866,133	4,045,567	2,860,219
Total Export	3,401,384	2,721,146	4,866,133	4,045,567	2,860,219
Value (Million Baht)	2,610.4	2,527.7	5,235.0	5,023.0	4,425.4

G R A N I T E

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
1. Dimension Stone*					
Northern Region					
Kamphaeng Phet	-	30	-	-	-
Nakhon Sawan	576	484	267	250	189
Phichit	50	10	15	66	50
Tak	8,152	6,148	4,780	4,303	4,164
Northeastern Region					
Loei	-	2,000	-	-	-
Central Region					
Cha Choeng Sao	507	503	500	500	450
Nakhon Nayok	20	20	-	40	20
Phetchaburi	470	500	-	-	-
Prachuap Khiri Khan	500	704	790	965	395
Ratchaburi	240	180	-	-	-
Total Production	10,515	10,579	6,352	6,124	5,267
Value (Million Baht)	53.5	54.0	32.4	31.2	26.9
2. Industrial Rock					
Northern Region					
Nakhon Sawan	-	-	22,000	-	-
Tak	83,500	116,500	66,900	116,800	106,200
Central Region					
Cha Chaeng Sao	151,977	158,720	88,580	81,640	131,240
Chon Buri	2,403,040	2,302,282	2,192,347	2,441,590	2,360,071
Kanchanaburi	20,000	-	4,000	-	-
Prachuap Khiri Khan	64,485	31,551	49,215	73,389	17,904
Rayong	1,056,128	1,265,476	1,427,747	975,723	1,285,870
Southern Region					
Nakhon Si Thammarat	30,000	16,030	20,000	-	-
Narathiwat	540,368	436,681	518,912	637,715	700,555
Phangnga	374,441	371,013	353,914	461,069	502,678
Songkhla	504,981	491,576	466,689	470,683	543,941
Total Production	5,228,920	5,189,829	5,210,304	5,258,609	5,648,459
Value (Million Baht)	522.8	614.1	703.4	709.9	762.5

* unit : cubic meter

Tonnes

	2007	2008	2009	2010	2011
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Export**Industrial Rock****Asia**

Singapore	103,300	-	-	-	-
Total Export	103,300	-	-	-	-
Value (Million Baht)	30.5	-	-	-	-

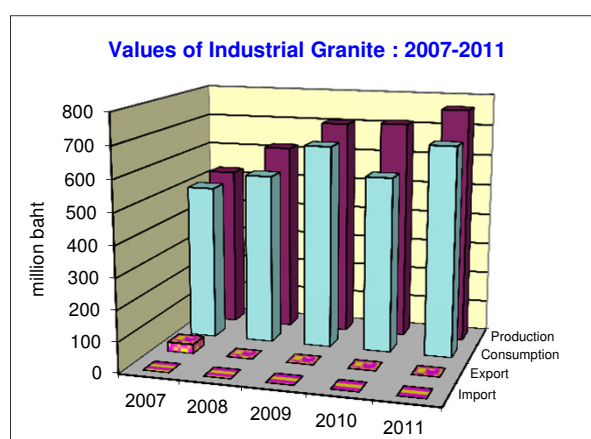
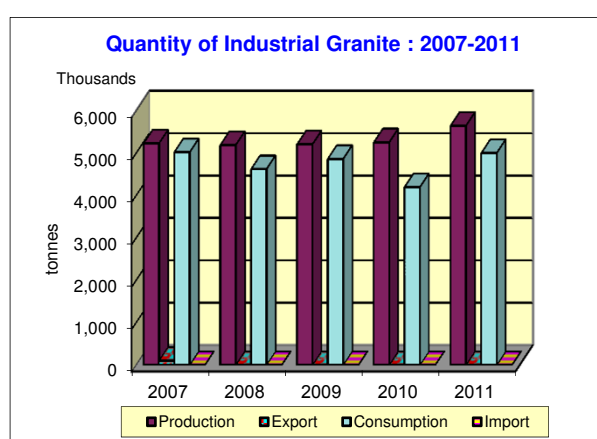
Consumption

1. Dimension Stone *	9,652	7,628	6,102	54,553	16,062
Value (Million Baht)	49.1	38.9	31.1	278.2	81.9
2. Industrial Rock	5,019,764	4,620,994	4,865,279	4,199,593	5,003,452
Value (Million Baht)	502.0	551.5	656.8	566.9	675.5

Import (Dimension Stone)

Total Import	258,084	138,162	137,656	138,476	136,495
Value (Million Baht)	555.0	538.7	553.7	476.9	482.9

* unit : cubic meter



GRAVEL

Tonnes

	2007	2008	2009	2010	2011
<u>Export</u> (Industrial Rock)					
Asia					
Malaysia	292	248	271	314	349
Singapore	263	584	650	624	336
Total Export	555	832	921	938	685
Value (Million Baht)	1.8	3.3	3.6	2.9	2.0

GRAYWACKE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u> (Industrial Rock)					
Central Region					
Chanthaburi	335,761	270,067	319,757	416,059	430,267
Trat	462,313	478,506	410,840	552,631	469,515
Total Production	798,074	748,573	730,597	968,690	899,782
Value (Million Baht)	55.9	65.1	76.7	101.7	94.5
<u>Consumption</u> (Industrial Rock)					
Total Consumption	744,666	719,682	765,450	914,307	934,171
Value (Million Baht)	52.1	61.8	80.4	96.0	91.1

G Y P S U M

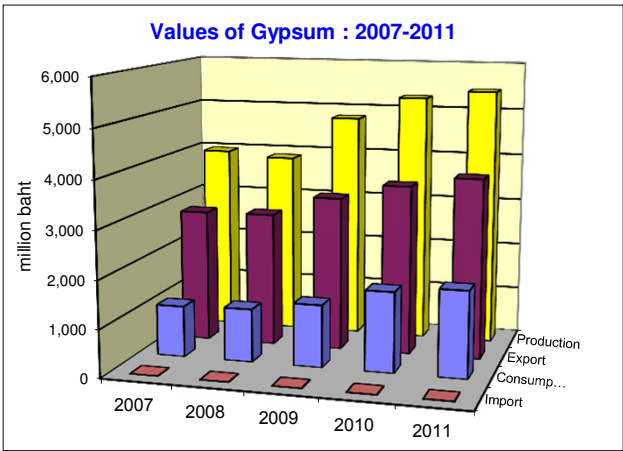
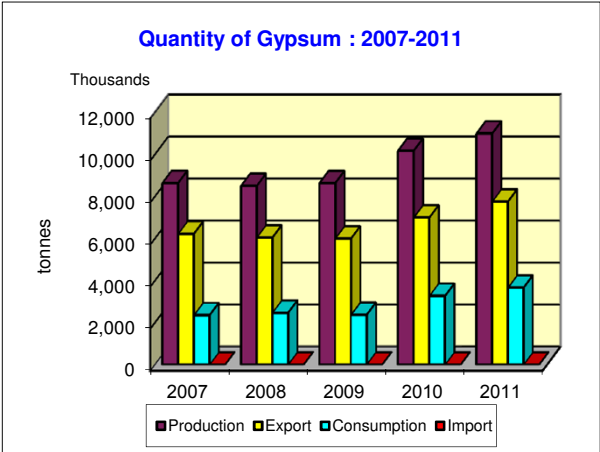
Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Nakhon Sawan	2,244,505	2,136,914	2,080,437	2,192,970	2,500,980
Phichit	330,169	332,730	246,847	455,466	424,874
Southern Region					
Nakhon Si Thammarat	2,306,606	2,192,358	1,695,715	1,602,656	1,730,224
Surat Thani	3,762,111	3,838,399	4,608,798	5,921,537	6,337,996
Total Production	8,643,391	8,500,401	8,631,797	10,172,629	10,994,074
Value (Million Baht)	3,963.7	3,861.3	4,788.3	5,270.4	5,442.1
<u>Export</u>					
1. Ground					
Asia					
Bangladesh	84	105	-	-	-
Indonesia	24	-	-	-	-
Japan	2,068	1,898	1,478	1,340	1,520
Malaysia	72	6,934	-	-	-
Myanmar	-	-	-	80	408
Si Lanka	20	-	-	-	-
Taiwan	350	185	280	913	210
Australia / Oceania					
Australia	480	528	-	-	-
New Zealand	-	24	-	-	-
Europe					
Portugal	20	-	-	-	-
Total Export	3,118	9,674	1,758	2,333	2,138
Value (Million Baht)	10.7	15.5	6.3	6.9	7.9

	Tonnes				
	2007	2008	2009	2010	2011
2. Unground					
Asia					
Bangladesh	330,850	394,326	481,300	467,148	474,649
Brunei	6,600	14,000	15,650	15,950	15,400
Cambodia	16,500	36,600	36,500	36,000	56,000
China	11,000	11,000	6,020	6,020	11,400
India	347,715	572,112	935,845	1,186,080	1,303,811
Indonesia	1,370,686	1,261,382	1,193,925	1,357,778	1,611,060
Japan	1,132,796	794,083	706,336	572,500	997,701
Korea, South	116,900	66,480	46,500	65,600	92,860
Malaysia	1,085,504	1,127,599	967,168	1,070,470	1,165,757
Philippines	214,140	308,800	125,560	282,635	280,896
Singapore	7,500	5,000	4,100	4,500	11,000
Sri Lanka	77,020	103,750	50,470	92,720	118,350
Taiwan	512,800	209,600	99,200	184,100	58,300
Vietnam	971,930	1,083,460	1,295,070	1,587,766	1,528,624
Africa					
Cote d'Ivoire (Ivory Cote)	-	-	17,000	-	-
Madagascar	-	8,000	-	5,000	10,000
Reunion (La Reunion)	-	18,000	9,400	18,000	11,000
South Africa	22,000	-	-	-	-
Tanzania	-	-	-	41,353	-
Australia / Oceania					
Australia	720	19,030	356	-	6,220
Total Export	6,224,661	6,033,222	5,990,400	6,993,620	7,753,028
Value (Million Baht)	2,808.8	2,820.5	3,252.3	3,572.8	3,791.7
Consumption					
Total Consumption	2,352,592	2,467,276	2,363,350	3,271,973	3,657,190
Value (Million Baht)	1,080.5	1,121.7	1,312.2	1,685.1	1,810.3
Import					
Total Import	605	470	452	522	614
Value (Million Baht)	6.2	7.2	8.5	9.0	9.9

Tonnes

2007	2008	2009	2010	2011
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ILMENITE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Southern Region					
Yala	2,067	-	-	-	-
Total Production	2,067	-	-	-	-
Value (Million Baht)	14.5	-	-	-	-
<u>Export</u>					
Asia					
China	324	850	210	-	4,278
India	-	-	-	-	46
Korea,South	3	10,053	-	-	5,911
Malaysia	1,150	500	-	-	930
Philippines	-	-	233	210	336
Singapore	3,500	-	-	-	-
Total Export	4,977	11,403	443	210	11,501
Value (Million Baht)	10.3	24.6	2.3	0.8	31.5
<u>Import</u>					
Total Import	891	21,961	1,005	903	753
Value (Million Baht)	8.9	10.0	11.2	9.6	11.5

IRON

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Nakhon Sawan	-	44,700	25,000	-	4,400
Phayao	-	-	-	74,950	-
Phetchabun	10,000	18,500	-	7,000	7,952
Uthai Thani	98,980	43,490	10,430	31,000	5,200
Northeastern Region					
Loei	1,445,880	1,601,450	309,513	421,297	350,571
Central Region					
Cha Choeng Sao	-	1,610	120,456	30,000	-
Chon Buri	-	-	-	40,500	60,000
Lop Buri	-	-	123,000	101,000	-
Southern Region					
Nakhon Si Thammarat	-	-	28,000	271,190	61,236
Total Production	1,554,860	1,709,750	616,399	976,937	489,359
Value (Million Baht)	2,129.2	2,114.6	770.6	1,360.0	903.8
<u>Export</u>					
Asia					
China	1,281,829	875,678	200,150	321,950	390,580
Hong Kong	-	-	-	159,065	62,500
India	-	1,864	-	-	-
Singapore	-	-	-	20	-
Total Export	1,281,829	877,542	200,150	481,035	453,080
Value (Million Baht)	1,699.7	1,027.4	306.4	452.3	510.7
<u>Consumption</u>					
Total Consumption	-	3,200	96,500	-	-
Value (Million Baht)	-	4.1	120.1	-	-
<u>Import</u>					
1.Iron Ore	76	10,216	192,038	457,508	161,427
Value (Million Baht)	2.1	69.5	509.9	1,689.8	770.2
2.Iron Pyrite	231	243	189	314	230
Value (Million Baht)	3.8	4.5	3.4	4.2	3.1

KAOLIN

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
1. Kaolin (Washed)					
Northern Region					
Lampang	28,061	35,605	31,639	33,749	40,032
Central Region					
Phetchaburi	25,000	31,400	28,900	31,300	29,350
Ratchaburi	2,900	3,000	3,000	3,200	6,200
Southern Region					
Narathiwat	5,705	6,780	6,100	6,985	6,415
Ranong	97,520	84,430	61,492	81,593	93,884
Total Production	159,186	161,215	131,131	156,827	175,881
Value (Million Baht)	152.8	154.8	125.9	150.6	168.8
2. Kaolin (Unwashed)					
Northern Region					
Lampang	328,056	354,588	481,817	180,154	368,251
Uthai Thani	52,000	16,190	64,000	64,450	147,400
Uttaradit	1,900	4,650	5,250	7,100	92,900
Central Region					
Chanthaburi	290	352	6,262	28,190	50,335
Kanchanaburi	101,388	63,200	125,600	234,100	173,000
Lop Buri	33,000	23,000	9,300	51,000	68,300
Prachin Buri	1,509	8,981	16,517	18,000	15,000
Southern Region					
Nakhon Si Thammarat	-	8,482	-	-	-
Total Production	518,143	479,443	708,746	582,994	915,186
Value (Million Baht)	199.5	184.6	272.9	224.5	352.4

Tonnes

	2007	2008	2009	2010	2011
3. Kaolin (Filler)					
Northern Region					
Uttaradit	7,985	6,061	4,046	3,837	4,329
Total Production	7,985	6,061	4,046	3,837	4,329
Value (Million Baht)	15.2	11.5	7.7	7.3	8.2

Export**1. Washed****Asia**

Bangladesh	-	-	-	88	622
China	-	6	22	64	189
India	-	-	132	971	258
Indonesia	62	692	792	528	1,076
Malaysia	843	1,006	658	842	2,300
Myanmar	-	-	-	-	9
Pakistan	20	40	-	48	40
Philippines	370	368	192	240	398
Sri Lanka	4	48	48	-	-
Vietnam	1,989	4,041	3,058	2,848	3,744
Total Export	3,288	6,201	4,902	5,629	8,636
Value (Million Baht)	14.8	28.0	20.5	24.5	37.0

2. Unwashed**Asia**

Vietnam	11,500	22,100	4,200	-	21
Total Export	11,500	22,100	4,200	-	21
Value (Million Baht)	9.4	16.2	0.1	-	0.1

Tonnes

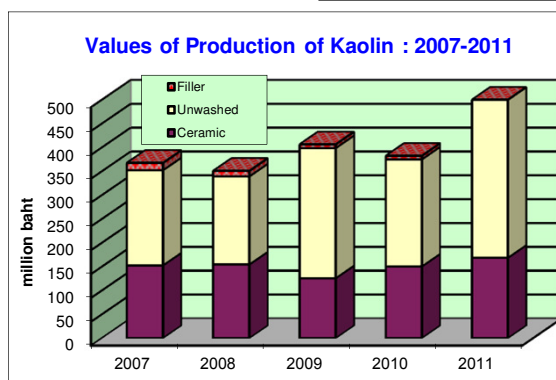
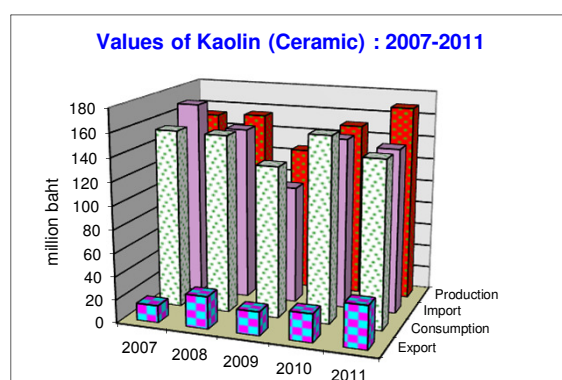
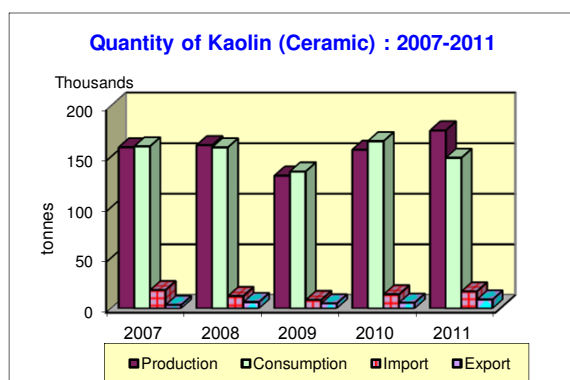
	2007	2008	2009	2010	2011
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Consumption

1. Washed	160,070	159,059	135,265	165,187	148,741
Value (Million Baht)	153.7	152.7	129.9	158.6	142.8
2. Unwashed	475,664	460,689	471,121	404,635	635,639
Value (Million Baht)	183.1	175.9	181.4	155.8	244.7
3. Filler	8,585	6,111	3,774	3,837	4,029
Value (Million Baht)	16.3	11.6	7.2	7.3	7.7

Import

1. Ceramic	18,061	12,204	8,410	13,880	16,907
Value (Million Baht)	169.0	149.7	102.0	147.3	141.9
2. Paper	7,202	11,989	4,534	5,918	4,423
Value (Million Baht)	63.4	105.0	54.9	62.5	42.7
3. Others	52,856	59,004	68,336	65,956	65,691
Value (Million Baht)	412.1	468.2	405.7	536.9	543.5



LEAD

Tonnes

	2007	2008	2009	2010	2011
<u>Import (Lead Ore)</u>					
Total Import	20	26	0.2	283	32
Value (Million Baht)	0.3	0.4	0.0*	5.5	0.7

0.0* denoting the amount of less than 0.05 million baht

LEUCOXENE

Tonnes

	2007	2008	2009	2010	2011
<u>Export</u>					
Asia					
China	-	1	1,512	1,224	-
India	42	-	426	256	448
Indonesia	-	24	-	273	299
Iran	600	210	-	-	648
Japan	224	-	-	-	-
Korea, South	-	21	-	-	539
Malaysia	-	-	-	-	357
Philippines	-	-	-	24	383
Taiwan	-	-	207	24	63
Africa					
Tunisia	-	132	160	-	-
Europe					
Iceland	-	-	-	-	336
Turkey	-	64	292	216	671
Total Export	866	452	2,597	2,017	3,744
Value (Million Baht)	11.8	5.8	33.7	33.3	65.3
<u>Import</u>					
Total Import	5,747	7,371	4,535	8,080	3,389
Value (Million Baht)	125.2	165.5	122.9	215.2	104.6

LIGNITE

Tonnes

	2007	2008	2009	2010	2011
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Production

Northern Region

Chaing Mai	97,800	-	-	-	-
Lampang	17,721,610	17,746,831	17,576,961	18,165,299	20,879,250
Lamphun	4,920	133,531	181,900	160,600	352,960
Phayao	387,734	191,725	-	-	-
Tak	-	-	-	73,500	92,196

Southern Region

Krabi	27,112	23,248	-	-	-
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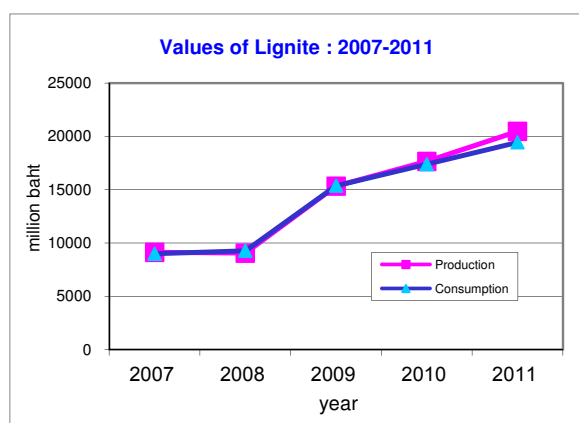
Total Production	18,239,176	18,095,335	17,758,861	18,399,399	21,324,406
Value (Million Baht)	9,119.6	9,047.7	15,334.8	17,663.4	20,471.4

Consumption

Total Consumption	17,970,429	18,531,550	17,842,528	18,117,685	20,256,989
Value (Million Baht)	8,985.2	9,265.8	15,376.6	17,393.0	19,446.7

Import

Total Import	1	6	23	79	15
Value (Million Baht)	0.7	0.1	0.5	1.2	0.3



L I M E S T O N E

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
1. Cement Industry					
Northern Region					
Lampang	1,611,286	1,253,296	1,424,530	2,236,129	2,224,080
Nakhon Sawan	1,001,230	543,059	152,688	-	-
Northeastern Region					
Nakhon Ratchasima	27,901	55,813	34,018	36,674	30,926
Central Region					
Phetchaburi	759,958	572,482	41,270	340,471	530,319
Sara Buri	53,472,641	45,788,896	49,302,757	52,226,265	53,156,082
Southern Region					
Nakhon Si Thammarat	6,926,268	6,623,185	5,893,231	6,609,103	7,066,604
Total Production	63,799,284	54,836,731	56,848,493	61,448,642	63,008,011
Value (Million Baht)	5,422.9	5,587.1	6,821.8	7,373.8	7,561.0
2. Other Industries					
Northern Region					
Lampang	1,296,972	1,442,318	1,374,735	1,380,000	1,625,812
Northeastern Region					
Nakhon Ratchasima	95,264	18,000	21,937	80,832	62,365
Central Region					
Kanchanaburi	2,975	1,760	310	900	1,900
Sara Buri	2,580,204	2,516,060	2,143,932	2,243,644	2,594,355
Southern Region					
Surat Thani	-	98,896	-	-	-
Total Production	3,975,415	4,077,034	3,540,914	3,705,376	4,284,432
Value (Million Baht)	337.9	411.7	424.9	444.6	514.1
3. Dimension Stone					
Northern Region					
Kamphaeng Phet *	-	-	1,820	-	-
Nan	190	60	80	-	-
Central Region					
Sara Buri	43	34	41	34	27
Total Production	233	94	1,941	34	27
Value (Million Baht)	0.5	0.2	3.9	0.1	0.1

Tonnes

	2007	2008	2009	2010	2011
4. Construction					
Northern Region					
Chiang Mai	1,521,196	1,808,243	652,600	1,306,313	1,538,608
Chiang Rai	1,390,934	519,500	1,012,145	985,120	1,677,070
Kamphaeng Phet	350,574	260,194	256,259	337,724	932,462
Lampang	750,785	686,441	1,364,858	866,873	668,317
Lamphun	1,581,691	1,123,179	972,689	973,310	689,283
Nakhon Sawan	2,619,604	1,940,248	2,260,398	3,489,484	2,699,768
Nan	265,000	235,000	270,450	442,000	118,412
Phayao	655,154	746,082	1,523,214	445,071	294,686
Phetchabun	1,682,876	1,609,653	1,839,752	2,051,249	1,575,687
Phitsanulok	381,376	507,000	-	103,329	245,946
Phrae	395,093	418,937	287,023	310,314	204,856
Sukhothai	572,125	964,013	574,074	988,388	1,036,475
Tak	416,477	328,478	309,843	320,136	348,950
Uthai Thani	232,556	165,536	254,424	342,787	284,061
Uttaradit	654,285	516,135	458,958	556,589	169,871
Northeastern Region					
Chaiyaphum	139,424	-	-	-	-
Khon Kaen	3,308,107	3,451,228	3,765,780	3,910,720	5,779,595
Loei	1,982,330	1,354,600	2,026,854	2,156,224	2,594,267
Nakhon Ratchasima	2,208,008	2,088,308	1,945,352	2,390,503	2,536,384
Nong Bua Lamphu	1,266,848	1,219,832	1,285,852	1,197,510	1,235,802
Udon Thani	614,255	323,118	441,600	368,712	200,000
Central Region					
Chai Nai	107,072	111,056	24,165	34,013	50,643
Chanthaburi	189,870	183,437	101,055	101,908	120,659
Chon Buri	10,625,510	9,358,385	8,124,039	7,610,566	9,457,415
Kanchanaburi	2,252,065	1,594,622	1,043,583	1,650,047	1,745,124
Lop Buri	728,665	714,152	917,772	658,671	947,000
Phetchaburi	328,836	368,474	604,721	1,018,488	1,623,957
Prachin Buri	968,686	594,263	319,214	100,079	283,021
Prachuap Khiri Khan	1,378,084	1,061,118	796,928	1,154,890	1,124,612
Ratchaburi	5,704,176	4,878,213	4,663,175	2,918,732	2,890,462
Rayong	669,900	627,245	630,230	617,715	476,980
Sa Kaeo	283,023	245,528	240,974	261,662	228,366
Sara Buri	13,199,173	10,442,197	10,648,244	9,488,282	11,458,877
Suphan Buri	8,916,270	8,937,564	9,108,539	10,891,410	11,556,842

	Tonnes				
	2007	2008	2009	2010	2011
Southern Region					
Chumphon	1,046,878	677,383	1,438,316	553,707	866,189
Krabi	751,659	1,035,333	612,929	744,135	713,672
Nakhon Si Thammarat	6,891,878	3,976,845	3,828,089	3,687,151	4,233,315
Phangnga	805,795	714,667	686,536	613,557	492,617
Phatthalung	125,547	143,313	155,323	204,008	423,487
Satun	642,767	869,094	282,500	511,526	761,762
Songkhla	1,201,410	967,080	1,254,452	506,550	696,840
Surat Thani	2,393,872	3,331,752	1,479,692	2,218,459	2,319,260
Trang	492,436	595,022	757,565	316,540	397,929
Yala	734,373	726,925	970,478	429,569	580,891
Total Production	83,426,643	72,419,391	70,190,643	69,834,022	78,280,420
Value (Million Baht)	5,839.9	6,204.9	7,370.0	7,332.6	8,219.4

Export

1. Construction

Asia

Bangladesh	-	-	30,900	53,737	22,000
Cambodia	-	2,960	600	-	-
India	610,374	1,157,099	1,186,826	202,750	213,183
Laos	-	105	-	-	-
Malaysia	7	3,600	-	-	-
Singapore	39,612	-	-	-	-
Vietnam	-	-	-	60	-
Taiwan	-	-	-	-	27,700

Australia / Oceania

New Caledonia	-	-	-	-	66,859
New Zealand	-	7	-	-	-

Europe

Germany	1	-	3	1	1
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North America

Mexico	16	-	-	-	-
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Total Export	650,010	1,163,771	1,218,329	256,548	329,743
Value (Million Baht)	239.0	460.0	487.7	88.5	132.1

Tonnes

	2007	2008	2009	2010	2011
2. Other Industries					
Asia					
Brunei	-	-	-	-	1
Cambodia	472	-	2,254	1,560	1,146
India	-	-	300	-	-
Laos	16,774	-	-	-	-
Japan	-	4	-	-	-
Jordan	-	-	-	-	22
Malaysia	5	-	1	-	-
Myanmar	-	1	0.3	-	56
Taiwan	-	460	-	-	-
Vietnam	-	4	11	5	-
Africa					
Nigeria	-	-	-	2	-
South Africa	-	5	59	-	-
Australia / Oceania					
Australia	20	-	45	120	241
French Polynesia	-	24	-	-	-
Europe					
Denmark	-	-	-	-	2
Germany	2	-	-	-	11
Total Export	17,273	498	2,669	1,687	1,479
Value (Million Baht)	55.7	1.3	4.3	3.5	3.4

Consumption

1. Cement Industry	62,361,409	55,969,381	54,882,205	60,614,383	62,530,873
Value (Million Baht)	5,300.7	5,712.2	6,585.9	7,273.7	7,503.7
2. Construction	83,524,932	68,801,246	62,552,086	69,205,206	71,118,597
Value (Million Baht)	5,846.7	5,896.6	6,567.9	7,266.5	7,467.5
3. Dimension Stone	43	34	41	34	12
Value (Million Baht)	0.1	0.1	0.1	0.1	0.0*
4. Other Industries	4,036,792	3,908,735	3,266,563	3,383,776	4,304,560
Value (Million Baht)	343.1	394.8	392.0	406.1	516.6

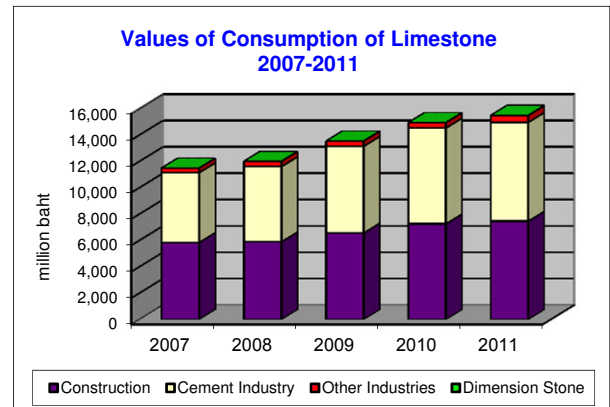
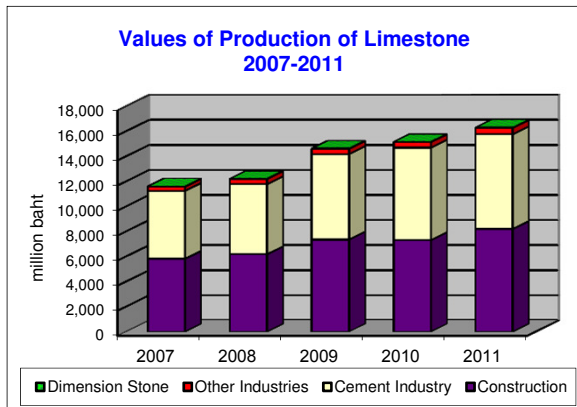
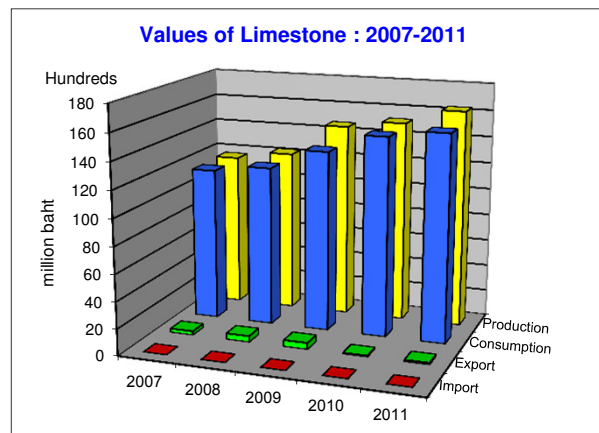
0.0* denoting the amount of less than 0.05 million baht

Tonnes

	2007	2008	2009	2010	2011
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Import

Total Import	441	2,072	4,045	76	16
Value (Million Baht)	3.7	2.2	3.8	2.4	0.1



M A N G A N E S E

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Metallurgical grade					
Northern Region					
Chiang Mai	-	-	23,500	1,650	-
Chiang Rai	9,500	500	16,430	17,800	398
Lamphun	-	-	25,000	31,000	-
Northeastern Region					
Loei	-	110,500	-	-	-
Total Production	9,500	111,000	64,930	50,450	398
Value (Million Baht)	9.6	112.3	187.5	146.3	1.2
<u>Export</u>					
Metallurgical grade					
Asia					
Bangladesh	-	-	-	1,234	2,860
China	3,308	70	19,055	57,075	16,381
India	-	-	-	1,389	-
Malaysia	-	-	-	1	-
Total Export	3,308	70	19,055	59,699	19,241
Value (Million Baht)	5.3	0.1	56.6	754.0	63.0
<u>Consumption</u>					
Total Consumption	-	10,425	11,500	54,415	-
Value (Million Baht)	-	10.6	33.4	157.8	-
<u>Import</u>					
Total Import	201	694	50	4,530	18,633
Value (Million Baht)	13.7	9.5	1.6	17.8	42.8

M A R B L E

Cubic metre

	2007	2008	2009	2010	2011
<u>Production</u>					
1. Dimension Stone					
Northern Region					
Kamphaeng Phet	1,671	3,716	-	2,469	320
Lampang	671	974	1,140	-	-
Nakhon Sawan	20	60	-	25	10
Sukhothai	2,181	1,759	2,303	2,229	1,403
Uttaradit	-	-	-	835	-
Northeastern Region					
Nakhon Ratchasima	964	101	903	779	421
Central Region					
Kanchanaburi	-	-	30	-	-
Lop Buri	-	-	-	-	10
Sara Buri	8,430	4,405	6,460	5,760	5,510
Total Production	13,937	11,015	10,836	12,097	7,674
Value (Million Baht)	51.1	40.7	40.1	44.8	28.4
2. Fragment					
Northern Region					
Kamphaeng Phet	152,570	120,455	152,306	215,284	139,353
Lampang	2,480	-	-	-	-
Sukhothai	199,983	4,598	21,795	-	5,308
Tak	36,400	41,137	42,803	73,773	105,219
Uttaradit	-	-	4,000	750	99,697
Central Region					
Lop Buri	-	-	-	-	200
Sara Buri	443,436	487,725	503,476	477,330	151,786
Total Production	834,869	653,915	724,380	767,137	501,563
Value (Million Baht)	187.8	147.1	163.0	249.3	163.0

Cubic metre

	2007	2008	2009	2010	2011
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Consumption

1. Dimension Stone	14,385	10,590	68,994	182,996	128,512
Value (Million Baht)	52.8	39.1	255.3	677.1	475.5
2. Fragment	940,381	628,165	851,561	1,078,912	535,439
Value (Million Baht)	211.6	141.3	191.6	350.6	174.0

Import

Total Import	32,166	39,215	39,806	45,010	49,532
Value (Million Baht)	231.9	301.0	313.4	322.0	364.0

M A R L

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Central Region					
Sara Buri	31,750	41,720	98,000	68,000	65,000
Total Production	31,750	41,720	98,000	68,000	65,000
Value (Million Baht)	2.7	3.5	8.3	5.8	5.5
<u>Consumption</u>					
Total Consumption	31,550	41,900	86,550	69,550	69,000
Value (Million Baht)	2.7	3.6	7.4	5.9	5.9

M I C A

Tonnes

	2007	2008	2009	2010	2011
<u>Import</u>					
Total Import	5,176	4,904	2,991	5,504	4,860
Value (Million Baht)	98.4	107.2	80.7	125.3	128.8

MONAZITE

Tonnes

	2007	2008	2009	2010	2011
<u>Export</u>					
Asia					
China	6,402	4,615	6,510	9,345	4,328
India	-	-	105	-	-
Korea, South	100	120	60	60	-
Laos	-	-	-	-	760
Philippines	-	84	-	-	-
Taiwan	20	-	-	-	-
North America					
Canada	496	-	-	-	-
Total Export	7,018	4,819	6,675	9,405	5,088
Value (Million Baht)	105.1	97.4	180.8	284.3	171.6
<u>Import</u>					
Total Import	2	-	-	-	-
Value (Million Baht)	0.0*	-	-	-	-

0.0*denoting the amount of less than 0.05 million baht

PERLITE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Central Region					
Lop Buri	6,400	7,000	13,500	14,700	26,500
Total Production	6,400	7,000	13,500	14,700	26,500
Value (Million Baht)	4.5	4.9	9.5	10.4	18.7
<u>Consumption</u>					
Total Consumption	15,600	16,625	11,350	11,634	13,796
Value (Million Baht)	11.0	11.7	8.0	8.2	9.7

PHOSPHATE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Kamphaeng Phet	-	-	-	822	-
Lamphun	1,850	925	50	34,210	3,020
Central Region					
Kanchanaburi	-	300	-	-	-
Phetchaburi	1,700	2,250	608	751	280
Total Production	3,550	3,475	658	35,783	3,300
Value (Million Baht)	1.5	1.4	0.3	14.9	1.4
<u>Consumption</u>					
Total Consumption	2,500	2,475	12,506	2,316	344
Value (Million Baht)	1.0	1.0	5.2	1.0	0.1
<u>Import</u>					
1. Ground	11,920	10,530	11,670	356	71
Value (Million Baht)	34.8	46.2	66.6	3.0	0.7
2. Underground	1	-	-	11,000	1
Value (Million Baht)	0.3	-	-	25.0	0.1

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

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Central Region					
Sara Buri	415,420	106,600	124,384	2,205	5,300
Total Production	415,420	106,600	124,384	2,205	5,300
Value (Million Baht)	145.4	37.3	43.5	0.8	1.9
<u>Export</u>					
Asia					
Indonesia	2,620	2,813	1,500	880	5,812
Malaysia	122	69	103	198	52
Vietnam	1,560	2,800	1,040	1,500	3,300
Total Export	4,302	5,682	2,643	2,578	9,164
Value (Million Baht)	12.7	16.0	8.6	7.2	25.2
<u>Consumption</u>					
Total Consumption	249,536	84,336	5,630	2,205	5,300
Value (Million Baht)	87.3	29.5	2.0	0.8	1.9
<u>Import</u>					
Total Import	187	-	-	-	-
Value (Million Baht)	1.1	-	-	-	-

Q U A R T Z

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
1. Ground					
Northern Region					
Tak	3,874	2,290	2,144	2,994	3,046
Total Production	3,874	2,290	2,144	2,994	3,046
Value (Million Baht)	2.9	1.7	1.6	2.2	2.3
2. Unground					
Central Region					
Kanchanaburi	-	500	10,180	38,870	116,710
Phetchaburi	1,050	500	-	-	-
Prachuap Khiri Khan	-	-	-	-	1,500
Southern Region					
Nakhon Si Thammarat	-	-	630	2,200	2,100
Total Production	1,050	1,000	10,810	41,070	120,310
Value (Million Baht)	0.8	0.8	8.1	30.8	90.2
3. Industrial Rock					
Central Region					
Kanchanaburi	-	-	-	5,000	-
Southern Region					
Songkhla	-	-	-	-	29,220
Total Production	-	-	-	5,000	29,220
Value (Million Baht)	-	-	-	0.5	3.1
<u>Export</u>					
Ground					
Asia					
Taiwan	-	-	300	-	-
Total Export	-	-	300	-	-
Value (Million Baht)	-	-	1.1	-	-

Tonnes

	2007	2008	2009	2010	2011
<u>Consumption</u>					
1. Ground	934	2,410	2,494	2,908	4,706
Value (Million Baht)	0.7	1.8	1.9	2.2	3.5
2. Underground	200	100	4,250	29,433	64,300
Value (Million Baht)	0.2	0.1	3.2	22.1	48.2
3. Industrial Rock	-	-	-	200	15,576
Value (Million Baht)	-	-	-	0.0*	1.6
<u>Import</u>					
Total Import	3,499	1,884	2,595	2,572	3,127
Value (Million Baht)	11.3	8.4	10.9	23.5	14.0

0.0* denoting the amount of less than 0.05 million baht

RHYOLITE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Central Region					
Sara Buri	776,061	288,056	217,462	313,631	562,314
Total Production	776,061	288,056	217,462	313,631	562,314
Value (Million Baht)	54.3	25.9	22.8	32.9	59.0
<u>Consumption</u>					
Total Consumption	796,406	274,627	243,270	334,891	647,913
Value (Million Baht)	55.8	25.4	25.5	35.2	68.0

ROCK SALT

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Nakhon Ratchasima	1,134,931	1,211,581	1,376,037	1,405,406	1,359,493
Total Production	1,134,931	1,211,581	1,376,037	1,405,406	1,359,493
Value (Million Baht)	567.5	1,301.7	1,513.6	1,545.9	1,495.4
<u>Consumption</u>					
Total Consumption	1,154,459	1,200,901	1,380,363	1,396,015	1,351,073
Value (Million Baht)	577.2	1,292.2	1,518.4	1,535.6	1,486.2
<u>Import</u>					
Total Import	5	700	2	1	5
Value (Million Baht)	0.1	10.9	0.0*	0.0*	0.1

0.0*denoting the amount of less than 0.05 million baht

R U T I L E

Tonnes

	2007	2008	2009	2010	2011
<u>Export</u>					
Asia					
China	-	-	24	504	1,242
India	-	105	1,039	210	-
Indonesia	-	-	46	-	-
Iran	-	462	-	96	48
Japan	-	88	-	-	-
Korea, South	-	-	41	-	-
Malaysia	-	-	-	24	305
Pakistan	-	-	100	-	-
Philippines	-	-	84	651	577
Europe					
Netherlands	-	-	132	-	-
Turkey	-	-	651	813	428
Ukraine	-	-	-	-	115
Total Export	-	655	2,117	2,298	2,715
Value (Million Baht)	-	8.8	28.7	38.5	53.2
<u>Import</u>					
Total Import	2,487	6,779	7,331	7,276	6,684
Value (Million Baht)	54.9	94.4	68.5	77.9	181.5

S A N D S T O N E

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
1. Dimension Stone					
Northern Region					
Nakhon Ratchasima	870	500	670	2,642	2,883
Total Production	870	500	670	2,642	2,883
Value (Million Baht)	0.6	0.3	0.5	1.8	2.0
2. Industrial Rock					
Southern Region					
Phangnga	127,646	136,325	116,885	127,625	127,450
Satun	-	-	-	50,861	180,720
Total Production	127,646	136,325	116,885	178,486	308,170
Value (Million Baht)	6.4	10.3	11.7	17.9	30.8
<u>Consumption</u>					
1. Dimension Stone	820	500	640	2,642	2,883
Value (Million Baht)	0.6	0.3	0.4	1.8	2.0
2. Industrial Rock	127,646	136,325	116,885	187,048	298,452
Value (Million Baht)	6.4	10.3	11.7	18.7	29.8
<u>Import</u>					
Dimension Stone	3,779	939	738	0.0**	-
Value (Million Baht)	19.6	9.2	12.0	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

SHALE

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Lampang	1,344	35,652	46,737	-	-
Central Region					
Sara Buri	4,767,329	3,991,222	3,720,054	4,180,593	4,593,446
Total Production	4,768,673	4,026,874	3,766,791	4,180,593	4,593,446
Value (Million Baht)	429.2	427.9	470.9	522.6	574.2
<u>Consumption</u>					
Total Consumption	4,545,900	3,912,722	4,078,561	4,126,822	4,343,767
Value (Million Baht)	403.9	425.2	509.8	515.9	543.0

S I L V E R

Gram

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Phetchabun	4,388,837	881,000	5,640,670	7,072,696	9,734,848
Phichit	3,229,835	4,490,630	10,562,930	10,359,768	9,586,510
Northeastern Region					
Loei	108,489	93,849	59,818	126,009	134,533
Total Production	7,727,161	5,465,479	16,263,418	17,558,473	19,455,892
Value (Million Baht)	114.8	91.4	264.0	359.3	661.7
<u>Export</u>					
Asia					
Hong Kong	8,148,567	5,465,479	16,263,418	17,558,473	19,456,075
Total Export	8,148,567	5,465,479	16,263,418	17,558,473	19,456,075
Value (Million Baht)	114.9	91.4	263.9	359.3	661.7
<u>Import</u>					
Total Import	8	13	13	25	19
Value (Million Baht)	2.0	0.6	0.6	1.3	1.7

STRUVERITE

Tonnes

	2007	2008	2009	2010	2011
<u>Export</u>					
Asia					
China	-	40	-	276	642
Total Export	-	40	-	276	642
Value (Million Baht)	-	4.7	-	26.7	71.1

T A L C

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Uttaradit	3,508	3,264	504	672	2,304
Total Production	3,508	3,264	504	672	2,304
Value (Million Baht)	2.1	2.0	0.3	0.4	1.4
<u>Consumption</u>					
Total Consumption	3,400	3,249	488	647	3,024
Value (Million Baht)	2.0	2.0	0.3	0.4	1.8
<u>Import</u>					
Total Import	98,735	116,906	100,919	135,219	126,254
Value (Million Baht)	791.9	1,033.8	5,089.2	1,452.9	1,380.8

TANTALUM

Tonnes

	2007	2008	2009	2010	2011
<u>Export</u>					
1. Columbium Oxide					
Europe					
Germany	16	-	-	-	-
Total Export	16	-	-	-	-
Value (Million Baht)	5.4	-	-	-	-
2. Columbium Pentoxide Powder					
Asia					
China	-	-	-	-	150
Total Export	-	-	-	-	150
Value (Million Baht)	-	-	-	-	15.7
3. Tantalum Pentoxide Powder					
Europe					
Germany	1	-	-	-	-
Total Export	1	-	-	-	-
Value (Million Baht)	5.3	-	-	-	-
4. Tantalum Powder					
Asia					
Japan	4	-	-	-	-
Europe					
Germany	8	-	-	-	-
North America					
U.S.A.	16	-	-	-	-
Total Export	28	-	-	-	-
Value (Million Baht)	280.2	-	-	-	-
5. Tantalum Oxide					
Europe					
Germany	4	-	-	-	-
Total Export	4	-	-	-	-
Value (Million Baht)	21.2	-	-	-	-

Tonnes

	2007	2008	2009	2010	2011
<u>Import (Tantalite)</u>					
Total Import	348	11,043	-	-	483.0
Value (Million Baht)	213.3	91.8	-	-	946.8

TIN

Tonnes

	2007	2008	2009	2010	2011
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Production

1. Production of Tin Concentrates by changwat

Northern Region

Chiang Mai	82	183	105	216	228
Chiang Rai	1	-	-	-	-
Tak	2	-	-	-	-

Central Region

Kanchanaburi	11	11	15	5	5
Phetchaburi	-	-	6	10	8

Southern Region

Ranong	19	41	42	60	45
Songkhla	-	-	-	-	-
Yala	34	-	-	-	-

Total Production	149	235	168	292	286
Value (Million Baht)	53.9	105.1	57.3	134.3	172.0

2. Production of Tin Concentrates by Mining Methods.

Open Pitting	130	194	126	231	241
Dulang Washing	19	41	42	60	45

Total Production	149	235	168	291	286
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3. Percentage of Tin Production by Mining Methods.

Open Pitting	87.2	82.5	74.9	79.4	84.3
Dulang Washing	12.8	17.5	25.1	20.6	15.7

4. Production of Primary Tin Metal

Total Production	22,742	21,618	19,248	23,319	23,714
Value (Million Baht)	11,620.4	13,388.6	8,835.4	15,116.9	19,042.1

	Tonnes				
	2007	2008	2009	2010	2011
<u>Export</u>					
1. Primary Tin Metal					
Africa					
Egypt	-	-	4	5	-
Guinea	-	-	-	-	204
U.A.E	-	-	-	5	-
Asia					
China	330	40	260	80	200
Hong Kong	340	171	1,385	80	50
India	220	20	620	120	255
Japan	6,562	10,705	6,299	13,952	10,156
Korea, South	832	1,916	893	1,334	1,181
Malaysia	1,030	1,060	791	521	184
Philippines	-	55	2	31	6
Singapore	6,800	812	4,785	1,595	4,000
Taiwan	225	150	351	353	393
Vietnam	-	155	-	-	-
Australia / Oceania					
Australia	80	102	312	190	498
New Zealand	-	-	-	-	6
Europe					
Austria	-	-	-	50	178
Belgium	-	31	20	20	122
Estonia	14	-	-	-	-
France	-	41	10	-	-
Germany	62	101	26	394	1,400
Italy	582	483	571	125	-
Netherlands	2,400	1,279	306	21	-
Spain	24	-	-	-	-
Switzerland	-	-	-	25	1,125
Turkey	-	250	25	-	-
U.K.	135	20	3	462	57
North America					
U.S.A.	-	16	-	-	-
Total Export	19,636	17,407	16,661	19,363	20,015
Value (Million Baht)	9,995.4	10,939.1	7,890.1	12,694.3	16,387.6

	Tonnes				
	2007	2008	2009	2010	2011
2. Tin-Lead Alloy					
Asia					
Hong Kong	-	-	22	14	-
Japan	59	-	-	-	-
Malaysia	64	-	21	-	-
Europe					
Belgium	317	-	-	22	37
Total Export	440	-	43	36	37
Value (Million Baht)	132.6	-	17.1	19.7	33.8
3. Final Slag					
Asia					
China	41	934	1,910	1,271	50
Hong Kong	409	-	-	-	-
Total Export	450	934	1,910	1,271	50
Value (Million Baht)	42.8	93.1	157.0	105.6	3.7
4. Tin Slag					
Asia					
China	-	-	-	-	74
Total Export	-	-	-	-	74
Value (Million Baht)	-	-	-	-	4.4

Tonnes

	2007	2008	2009	2010	2011
5. Hard Head					
Asia					
China	-	114	-	-	-
Malaysia	-	23	-	-	-
Europe					
Belgium	740	1,000	1,357	1,389	297
U.K.	-	20	-	-	-
South America					
Peru	-	170	-	-	-
Total Export	740	1,327	1,357	1,389	297
Value (Million Baht)	191.8	403.0	271.3	422.3	138.5
6. Tin Dross					
Asia					
Saudi Arabia	-	-	-	-	22.1
U.A.E.	-	-	-	39	85.4
Europe					
Belgium	-	-	-	20	-
Total Export	-	-	-	59	108
Value (Million Baht)	-	-	-	24.8	48.0
<u>Consumption</u>					
1. Primary Tin Metal	3,210	4,080	2,603	3,707	3,321
Value (Million Baht)	1,593.9	2,525.9	1,216.5	2,346.8	2,648.3
2. Tin-lead Alloy	718	684	697	1,037	985
Value (Million Baht)	n.a.	n.a.	n.a.	n.a.	n.a.
<u>Import</u>					
Tin ore	12,974	18,771	17,985	3,432	2,716
Value (Million Baht)	3,980.3	5,865.6	4,272.0	685.0	257.2

TR A V E R T I N E

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Central Region					
Sara Buri	3,490	3,640	2,910	1,760	900
Total Production	3,490	3,640	2,910	1,760	900
Value (Million Baht)	6.9	7.3	5.8	3.5	1.8
<u>Consumption</u>					
Total Consumption	3,430	3,280	2,910	1,720	900
Value (Million Baht)	6.9	6.6	5.8	3.4	1.8
<u>Import</u>					
Total Import	0.3	-	0.1	0.1	0.1
Value (Million Baht)	0.0*	-	0.0*	0.0*	0.1

0.0* denoting the amount of less than 0.05 million baht

TUNGSTEN

Tonnes

		2007	2008	2009	2010	2011
<u>1. Wolfram</u>						
<u>Production</u>						
Northern Region						
Phrae		620	368	200	320	146
	Low grade	100	530	-	256	-
Tak		2	-	-	-	-
Central Region						
Kanchanaburi		4	-	-	4.5	7.3
Phetchaburi		10	15	0**	1.9	0.3
Total Production		636	383	200	326.4	153.6
	Low grade	100	530	-	256	-
Value (Million Baht)		63.2	38.1	19.9	32.4	15.3
	Low grade	2.8	14.6	-	7.0	-
<u>Export</u>						
Asia						
China		766	550	160	320	204
Europe						
Germany		-	-	-	20	-
North America						
U.S.A.		-	-	-	7	-
Total Export		766	550	160	347	204
Value (Million Baht)		262.8	198.9	47.3	2.3	3.1
<u>Import</u>						
Total Import		-	-	8	7	39
Value (Million Baht)		-	-	0.7	0.1	2.9

0** denoting the amount of less than 0.1 tonnes

	Tonnes				
	2007	2008	2009	2010	2011
<u>2. Scheelite</u>					
<u>Production</u>					
Northern Region					
Chiang Mai	180	199	150	129	138
Chiang Rai	4	-	-	-	-
Central Region					
Kanchanaburi	3	-	-	-	-
Total Production	187	199	150	129	138
Value (Million Baht)	18.6	19.8	14.9	12.8	13.7
<u>Export</u>					
Asia					
China	-	-	-	-	19
Vietnam	-	-	-	-	19
North America					
U.S.A.	204	163	122	116	122
Total Export	204	163	122	116	160
Value (Million Baht)	67.9	55.6	46.6	43.9	46.5
<u>3. Other Tungsten</u>					
<u>Import</u>					
Total Import	0.2	-	-	0**	0**
Value (Million Baht)	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

X E N O T I M E

Tonnes

	2007	2008	2009	2010	2011
<u>Export</u>					
Asia					
China	153	-	-	42	21
Korea, South	20	-	-	-	-
Total Export	173	-	-	42	21
Value(Million Baht)	4.4	-	-	0.1	1.9

Z I N C

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Northern Region					
Tak	176,042	118,739	183,288	146,470	148,391
Total Production	176,042	118,739	183,288	146,470	148,391
Value (Million Baht)	4,390.0	1,395.8	2,056.1	2,099.2	2,006.3
<u>Export</u>					
1. Zinc Metal					
Africa					
Nigeria	-	-	-	-	13
Asia					
Cambodia	-	-	-	-	51
China	301	909	6,574	-	-
Hong Kong	100	1,362	121	-	-
India	96	-	122	1	-
Indonesia	304	661	609	7	7
Japan	422	-	-	-	982
Korea, South	-	-	2,420	302	-
Laos	101	50,237	121	273	374
Malaysia	571	3,055	637	1	2,023
Myanmar	600	62,639	40	615	-
Philippines	161	-	-	-	-
Saudi Arabia	7	-	4,023	-	-
Singapore	-	242	919	-	2,407
Sri Lanka	50	24,946	-	-	-
Taiwan	1,145	4,347	-	-	-
Vietnam	1,434	316	3,362	3,322	4,678
Europe					
Belgium	1,006	-	-	-	-
Italy	-	-	-	-	20
North America					
Jamaica	7	-	-	-	-
Total Export	6,305	148,714	18,947	4,522	10,555
Value (Million Baht)	770.0	666.9	911.2	329.1	714.5

Tonnes

	2007	2008	2009	2010	2011
2. Zinc Alloy					
Africa					
Nigeria	-	-	-	-	62
Asia					
Cambodia	-	120	22	18	0.4
Japan	-	-	-	-	21
Malaysia	17	55	-	-	-
Australia / Oceania					
Australia	-	-	-	96	59
Total Export	17	175	22	114	142
Value (Million Baht)	1.9	8.1	1.9	6.6	10.5

Consumption

1. Zinc Alloy	27,236	26,814	24,045	30,873	8,970
Value (Million Baht)	3,352.6	1,995.7	1,517.6	2,380.1	714.5
2. Zinc Metal	57,629	57,902	55,817	61,142	80,601
Value (Million Baht)	6,897.7	4,068.6	3,205.9	4,390.3	5,631.4

Import

Zinc Ore	169,623	193,809	148,441	174,586	125,818
Value (Million Baht)	6,204.2	3,499.3	1,845.4	3,781.4	3,273.4

Z I R C O N

Tonnes

	2007	2008	2009	2010	2011
<u>Production</u>					
Southern Region					
Yala	1,023	-	-	-	-
Total Production	1,023	-	-	-	-
Value (Million Baht)	11.7	-	-	-	-
<u>Export</u>					
Asia					
China	6,539	8,868	10,420	7,512	11,064
India	305	-	16	-	-
Philippines	21	21	21	64	-
Taiwan	107	-	-	-	138
Total Export	6,972	8,889	10,457	7,576	11,202
Value (Million Baht)	160.6	121.0	165.9	133.3	277.3
<u>Consumption</u>					
Total Consumption	525	-	-	-	-
Value (Million Baht)	6.7	-	-	-	-
<u>Import</u>					
Total Import	8,885	48,724	18,138	47,451	46,633
Value (Million Baht)	268.5	623.9	266.8	493.1	1,351.6

NUMBER OF ACTIVE MINES BY KIND OF MINERALS

	2007	2008	2009	2010	2011
Andesite	3	2	2	2	2
Antimony	-	-	1	2	2
Ball clay	18	17	17	11	7
Barite	4	3	4	4	4
Basalt (industrial rock)	30	28	30	31	29
Bentonite	1	1	1	1	1
Calcite	6	7	8	7	6
Cement clay	32	45	47	37	31
Ceramic clay	3	16	17	14	10
Diatomite	2	2	2	2	1
Dolomite	20	19	16	17	18
Feldspar	27	26	25	23	22
Fluorite	4	4	5	4	4
Gem stone	1	2	1	1	-
Glass sand	12	12	13	12	11
Gneiss	1	1	1	1	1
Gold	3	4	4	4	4
Granite (dimension stone)	35	32	33	30	28
Granite (industrial rock)	19	22	19	19	18
Graywacke	1	1	1	1	1
Gypsum	47	42	45	48	49
Iron	7	8	10	10	9
Kaolin	34	38	32	33	34
Lignite	8	9	9	9	8
Limestone (cement)	21	20	18	19	18
Limestone (construction)	221	203	195	179	186
Limestone (dimension)	3	3	3	3	3
Limestone (others)	20	21	21	18	19
Manganese	2	2	3	2	3
Marble	41	37	31	32	25
Marl	2	3	4	4	3

NUMBER OF ACTIVE MINES BY KIND OF MINERALS

	2007	2008	2009	2010	2011
Perlite	2	2	2	2	2
Phosphate	2	2	2	2	2
Pyrophyllite	5	4	3	2	2
Quartz	-	1	2	2	4
Quartz (industrial rock)	-	-	1	1	0
Rhyolite (industrial rock)	2	1	1	1	1
Rock salt	3	3	4	4	4
Sand stone (dimension)	7	11	10	8	7
Sand stone (industrial rock)	3	2	2	2	2
Shale	4	6	7	7	7
Talc	2	2	1	1	1
Tin*	7	6	5	5	5
Travertine	4	4	4	4	3
Wolfram	2	2	1	1	1
Zinc	1	1	1	1	1
Total	672	677	664	623	599

* Including tin-tungsten mines

NUMBER OF WORKERS EMPLOYED IN MINES BY KIND OF MINERAL

	2007	2008	2009	2010	2011
Andesite	51	43	43	35	33
Antimony	-	-	7	11	13
Ball clay	263	222	200	161	141
Barite	47	40	71	97	68
Basalt (industrial rock)	644	542	580	709	626
Bentonite	12	12	12	12	11
Calcite	89	83	111	120	89
Cement clay	159	216	261	272	233
Ceramic clay	17	63	90	89	60
Diatomite	7	7	9	5	4
Dolomite	284	278	243	249	257
Feldspar	403	365	357	327	330
Fluorite	131	160	186	145	108
Gem stone	37	42	15	9	-
Glass sand	62	68	64	61	43
Gneiss	7	7	7	7	7
Gold	218	225	207	224	229
Granite (dimension)	488	420	392	338	310
Granite (industrial rock)	277	351	316	314	310
Graywacke	25	23	24	29	31
Gypsum	1,113	1,017	1017	1024	1008
Iron	120	192	342	337	267
Kaolin	433	458	348	353	380
Lignite	2,565	2,530	2087	1967	1967
Limestone (cement)	966	967	1021	1288	1263
Limestone (construction)	4,433	3,885	3626	3032	3233
Limestone (dimension)	51	25	25	25	25
Limestone (others)	355	372	354	287	316
Manganese	26	24	41	27	24
Marble	765	665	594	561	390
Marl	13	17	23	20	19

NUMBER OF WORKERS EMPLOYED IN MINES

BY KIND OF MINERAL

	2007	2008	2009	2010	2011
Perlite	32	28	29	31	28
Phosphate	31	32	22	26	45
Pyrophyllite	72	52	34	23	24
Quartz	-	19	30	31	61
Quartz (industrial rock)	-	-	27	27	-
Rhyolite (industrial rock)	43	43	43	43	43
Rock salt	124	122	124	127	125
Sand stone (dimension)	50	60	55	53	45
Sand stone (industrial rock)	30	28	30	25	25
Shale	101	118	132	140	85
Talc	12	9	6	6	6
Tin*	232	251	283	313	282
Travertine	27	24	22	17	18
Wolfram	25	18	15	15	15
Zinc	372	364	362	292	301
Dulang Washer	160	285	321	209	188
Total	15,372	14,772	14,208	13,513	13,086

* Including workers employed in tin-tungsten mines

Mineral Production of Thailand 2007 - 2011

Quantity : Tonnes

Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Mineral Fuels and Energy</u>										
Lignite	18,239,176	9,119.6	18,095,375	9,047.7	17,758,861	15,334.8	18,399,399	17,663.4	21,327,106	20,474.0
Total		9,119.6		9,047.7		15,334.8		17,663.4		20,474.0
%		22.98		23.35		29.21		30.98		34.21
<u>Iron and Ferro Alloy</u>										
Iron ore	1,554,860	2,129.2	1,709,750	2,114.6	616,399	770.6	976,937	1,360.0	489,359	903.8
Manganese (metallurgical grade)	9,500	9.6	111,000	112.3	64,930	187.5	50,450	146.3	398	1.2
Tungsten										
- Scheelite	187	18.6	199	19.8	150	14.9	129	12.8	138	13.7
- Wolfram	636	63.2	383	38.1	200	19.9	326	32.4	154	15.3
- Low grade	100	2.8	530	14.6	-	-	256	7.0	-	-
Total		2,223.4		2,299.4		992.9		1,558.5		934.0
%		5.60		5.93		1.89		2.73		1.56
<u>Base Metals</u>										
Antimony										
- Low grade	-	-	-	-	-	-	-	-	172	n.a.
- Ore	-	-	-	-	35	1.0	738	21.3	56	1.6
Copper ore	1	0.1	1	0.1	0	0.0**	723	168.5	525	146.4
Tin concentrates	149	53.9	235	105.1	167	57.3	292	134.3	286	172.0
Zinc ore	176,042	4,390.0	118,739	1,395.8	183,288	2,056.1	146,470	2,099.2	148,391	2,006.3
Total		4,444.0		1,501.0		2,114.4		2,423.3		2,326.3
%		11.20		3.87		4.03		4.25		3.89

Mineral Production of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Precious Metals and Precious Stone										
Gem stone (unit : gram)	20,490	n.a.	6,381	n.a.	570	n.a.	240	n.a.	-	-
Gold ore (unit : gram)	3,401,384	2,610.4	2,721,146	2,527.7	4,866,133	5,235.0	4,045,567	5,023.0	2,860,219	4,425.4
Silver ore (unit : gram)	7,727,161	114.8	5,465,479	91.4	16,263,418	264.0	17,558,473	359.3	19,455,892	661.7
Total		2,725.2		2,619.1		5,499.0		5,382.3		5,087.1
%		6.87		6.76		10.47		9.44		8.50
Light Metals and Rare Earth										
Ilmenite	2,067	14.5	-	-	-	-	-	-	-	-
Zircon	1,023	11.7	-	-	-	-	-	-	-	-
Total		26.2		-		-		-		-
%		0.07		-		-		-		-
Cement Industrial Minerals										
Anhydrite	692,877	317.5	488,681	219.6	633,820	350.2	536,120	279.3	614,148	304.0
Cement Clay	116,182	10.5	3,753,617	337.8	4,894,329	440.5	8,250,823	742.6	8,571,884	771.5
Gypsum (unground)	8,643,391	3,963.7	8,500,401	3,861.3	8,631,797	4,788.3	10,172,629	5,270.4	10,994,074	5,442.1
Limestone	63,799,284	5,422.9	54,836,731	5,587.1	56,848,493	6,821.8	61,448,642	7,373.8	63,008,011	7,561.0
Marl	31,750	2.7	41,720	3.5	98,000	8.3	68,000	5.8	65,000	5.5
Shale	4,768,673	429.2	4,026,874	427.9	3,766,791	470.9	4,180,593	522.6	4,593,446	574.2
Total		10,146.5		10,437.2		12,880.0		14,194.5		14,658.3
%		25.57		26.93		24.53		24.89		24.50

Mineral Production of Thailand 2007 - 2011

Quantity : Tonnes

Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Ceramic Industrial Minerals</u>										
Ball Clay	563,353	309.8	1,499,993	824.9	2,312,625	1,271.9	1,513,767	832.6	425,151	233.8
Ceramic Clay	75	0.0**	341,227	187.7	272,464	149.9	929,162	511.0	404,129	222.3
Dolomite	1,108,425	387.9	1,353,763	473.8	1,964,410	687.5	2,451,990	858.2	2,556,765	894.9
Feldspar										
- Potassium (ground)	-	-	123	0.3	120	0.3	-	-	-	-
- Potassium (unground)	2,438	4.1	423	0.7	9,772	16.6	9,060	15.4	138,669	235.7
- Sodium (ground)	9,685	13.6	3,191	4.5	65	0.1	120	0.2	-	-
- Sodium (unground)	672,545	470.8	666,881	466.8	708,735	496.1	632,720	442.9	902,483	631.7
Glass Sand	844,071	295.4	495,848	173.5	357,585	125.2	323,985	113.4	221,721	77.6
Kaolin										
- Filler	7,985	15.2	6,061	11.5	4,046	7.7	3,837	7.3	4,329	8.2
- Unwashed	518,143	199.5	479,443	184.6	708,746	272.9	582,994	224.5	915,186	352.3
- Washed	159,186	152.8	161,215	154.8	131,131	125.9	156,827	150.6	175,881	168.8
Quartz										
- Ground	3,874	2.9	2,290	1.7	2,144	1.6	2,994	2.2	3,046	2.3
- Unground	1,050	0.8	1,000	0.8	10,810	8.1	41,070	30.8	120,310	90.2
Total		1,852.8		2,485.6		3,163.8		3,189.1		2,917.8
%		4.67		6.41		6.03		5.59		4.87

Mineral Production of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Dimension Stone</u>										
Gneiss	150	0.6	-	-	-	-	-	-	60	0.2
Granite	10,515*	53.5	10,579*	54.0	6,352*	32.4	6,123*	31.2	5,267*	26.9
Limestone	233	0.5	94	0.2	1,941	3.9	34	0.1	27	0.1
Marble	13,937*	51.1	11,015*	40.7	10,836*	40.1	12,097*	44.8	7,674*	28.4
Sand Stone	870	0.6	500	0.3	670	0.5	2,642	1.8	2,883	2.0
Travertine	3,490	6.9	3,640	7.3	2,910	5.8	1,760	3.5	900	1.8
Total		113.2		102.5		82.7		81.4		59.4
%		0.29		0.26		0.16		0.14		0.10
<u>Industrial Rock</u>										
Andesite	1,402,555	140.3	1,000,992	114.2	930,655	125.6	1,209,235	163.2	945,587	127.7
Basalt	9,942,689	994.3	8,877,552	1,026.9	10,521,955	1,420.5	12,489,201	1,686.0	11,385,247	1,537.0
Granite	5,228,920	522.8	5,189,829	614.1	5,210,304	703.4	5,258,609	709.9	5,648,459	762.5
Graywacke	798,074	55.9	748,573	65.1	730,597	76.7	968,690	101.7	899,782	94.5
Limestone	83,426,643	5,839.9	72,419,391	6,204.9	70,190,643	7,370.0	69,634,022	7,332.6	78,280,420	8,219.4
Marble (fragment)	834,869*	187.8	653,915*	147.1	724,380*	163.0	767,137*	249.3	501,563*	163.0
Perlite	6,400	4.5	7,000	4.9	13,500	9.5	14,700	10.4	26,500	18.7
Quartz	-	-	-	-	-	-	5,000	0.5	29,220	3.1
Rhyolite	776,061	54.3	288,056	25.9	217,462	22.8	313,631	32.9	562,314	59.0
Sand Stone	127,646	6.4	136,325	10.3	116,885	11.7	178,486	17.9	308,170	30.8
Total		7,806.2		8,213.4		9,903.2		10,304.4		11,015.7
%		19.67		21.19		18.86		18.07		18.41

Mineral Production of Thailand 2007 - 2011

Quantity : Tonnes

Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Other Industrial Minerals										
Barite										
- Chemical grade (ground)	4,322	25.4	2,480	14.5	1,985	11.6	3,865	22.6	2,403	14.1
- Unground	4,309	6.4	6,700	9.9	49,910	74.1	29,600	44.0	65,300	97.0
Bentonite	650	0.4	210	0.1	110	0.1	130	0.1	55,220	33.1
Calcite	672,580	132.5	823,706	162.3	544,019	107.2	693,754	136.7	786,250	154.9
Diatomite	1,260	1.1	4,075	3.7	5,600	5.0	7,100	6.4	38,130	34.3
Fluorite (metallurgical grade)	1,820	7.4	26,118	106.2	86,365	351.1	2,222	9.0	5,093	20.7
Limestone	3,975,415	337.9	4,077,034	411.7	3,540,914	424.9	3,705,376	444.6	4,284,432	514.1
Phosphate	3,550	1.5	3,475	1.4	658	0.3	35,783	14.9	3,300	1.4
Pyrophyllite	415,420	145.4	106,600	37.3	124,384	43.5	2,205	0.8	5,300	1.9
Rock salt	1,134,931	567.5	1,211,581	1,301.7	1,376,037	1,513.6	1,405,406	1,545.9	1,359,493	1,495.4
Talc (unground)	3,508	2.1	3,264	2.0	504	0.3	672	0.4	2,304	1.4
Total		1,227.6		2,050.8		2,531.7		2,225.4		2,368.3
%		3.09		5.29		4.82		3.90		3.96
Grand Total		39,684.7		38,756.7		52,502.5		57,022.3		59,840.9

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

Mineral Export of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Iron and Ferro Alloy</u>										
Columbium										
- Pentoxide powder	-	-	-	-	-	-	-	-	150	15.7
- Oxide	16	5.4	-	-	-	-	-	-	-	-
Iron ore	1,281,829	1,699.7	877,542	1,027.4	200,150	306.4	481,035	452.3	453,080	510.7
Manganese (metallurgical grade)	3,308	5.3	70	0.1	19,055	56.6	59,699	754.0	19,241	63.0
Tantalum pentoxide powder	1	5.3	-	-	-	-	-	-	-	-
Tantalum powder	28	280.2	-	-	-	-	-	-	-	-
Tantalum oxide	4	21.2	-	-	-	-	-	-	-	-
Tungsten										
- Scheelite	204	67.9	163	55.6	122	46.6	116	43.9	160	46.5
- Wolfram	766	262.8	550	198.9	160	47.3	347	2.3	204	3.1
Total		2,347.8		1,282.0		456.9		1,252.5		639.0
%		11.37		6.29		2.24		4.83		2.18

Mineral Export of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Base Metals</u>										
Antimony ore	170	5.8	253	5.1	539	7.5	1,748	32.8	7,381	142.4
Copper										
- Ore	0.5	0.1	0.5	0.1	0.2	0.0**	723	168.5	525	146.4
- Dross	-	-	-	-	86	14.6	44	14.7	-	-
- Powder	-	-	-	-	-	-	4	1.2	2	0.7
Tin										
- Tin dross	-	-	-	-	-	-	59	24.8	108	48.0
- Final slag	450	42.8	934	93.1	1,910	157.0	1,271	105.6	50	3.7
- Hard head	740	191.8	1,327	403.0	1,357	271.3	1,389	422.3	297	138.5
- Tin metal	19,636	9,995.4	17,407	10,939.1	16,661	7,890.1	19,363	12,694.3	20,015	16,387.6
- Tin-lead alloy	440	132.6	-	-	43	17.1	36	19.7	37	33.8
- Tin slag	-	-	-	-	-	-	-	-	74	4.4
Zinc										
- Zinc alloy	17	1.9	175	8.1	22	1.9	114	6.6	142	10.5
- Zinc metal	6,305	770.0	148,714	666.9	18,947	911.2	4,522	329.1	10,555	714.5
Total		11,140.4		12,115.4		9,270.7		13,819.6		17,630.5
%		53.95		58.53		45.39		53.33		60.25
<u>Precious Metals and Precious Stone</u>										
Gold metal (unit : gram)	3,401,384	2,610.4	2,721,146	2,527.7	4,866,133	5,234.9	4,045,567	5,022.9	2,860,219	4,425.4
Silver metal (unit : gram)	7,727,171	114.8	5,433,094	91.0	16,263,418	263.9	17,558,473	359.3	19,455,892	661.7
Total		2,725.2		2,618.7		5,498.8		5,382.2		5,087.1
%		13.20		12.65		26.92		20.77		17.38

Mineral Export of Thailand 2007 - 2011

Quantity : Tonnes

Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Light Metals and Rare Earth</u>										
Ilmenite	4,977	10.3	11,403	24.6	443	2.3	210	0.8	11,501	31.5
Leucoxene	866	11.8	452	5.8	2,597	33.7	2,017	33.3	3,744	65.3
Monazite	7,018	105.1	4,819	97.4	6,675	180.8	9,405	284.3	5,088	171.6
Rutile	-	-	655	8.8	2,117	28.7	2,298	38.5	2,715	53.2
Struverite	-	-	40	4.7	-	-	276	26.7	642	71.1
Xenotime	173	4.4	-	-	-	-	42	0.1	21	1.9
Zircon	6,972	160.6	8,889	121.0	10,457	165.9	7,576	133.3	11,202	277.3
Total		292.2		262.3		411.4		517.0		671.9
%		1.42		1.29		2.01		2.00		2.30
<u>Cement Industrial Minerals</u>										
Anhydrite										
- Anhydrite	522,525	236.1	589,227	276.4	533,820	291.2	600,990	308.7	704,550	344.0
- Ground	18,340	9.0	460	1.5	160	0.5	200	0.6	120	0.4
Gypsum										
- Ground	3,118	10.7	9,674	15.5	1,758	6.3	2,333	6.9	2,138	7.9
- Unground	6,224,661	2,808.8	6,033,222	2,820.5	5,990,400	3,252.3	6,993,620	3,572.8	7,753,028	3,791.7
Total		3,064.6		3,113.9		3,550.3		3,889.0		4,144.0
%		14.84		15.27		17.38		15.01		14.16

Mineral Export of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Ceramic Industrial Minerals</u>										
Ball clay	32,113	143.8	29,772	111.7	25,743	122.5	30,316	146.3	15,205	68.6
Dolomite										
- Ground	643	4.7	1,630	4.3	1,644	1.4	102	0.5	89	0.4
- Unground	669,266	166.8	702,546	201.6	840,208	264.5	1,368,198	410.9	1,181,260	343.8
Feldspar										
- Potassium (ground)	-	-	-	-	-	-	-	-	72	0.2
- Sodium (ground)	294,832	230.6	413,914	330.8	376,003	289.1	383,181	317.6	608,297	449.0
- Sodium (unground)	212,351	143.6	153,071	104.2	-	-	66,300	50.9	8,200	3.6
Kaolin										
- Unwashed	11,500	9.4	22,100	16.2	4,200	0.1	-	-	21	0.1
- Washed	3,288	14.8	6,201	28.0	4,902	20.5	5,629	24.5	8,636	37.0
Quartz (ground)	-	-	-	-	300	1.1	-	-	-	-
Total		713.7		796.8		699.2		950.7		902.7
%		3.46		3.91		3.42		3.67		3.09
<u>Industrial Rock</u>										
Granite	103,300	30.5	-	-	-	-	-	-	-	-
Gravel	555	1.8	832	3.3	921	3.6	938	2.9	685	2.0
Limestone	650,010	239.0	1,163,771	460.0	1,218,329	487.7	256,548	88.5	329,743	132.1
Total		271.3		463.3		491.3		91.4		134.1
%		1.31		2.27		2.41		0.35		0.46

Mineral Export of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Other Industrial Minerals										
Barite chemical grade (ground)	4,121	24.8	7,023	31.2	17,008	34.4	12	0.1	2,952	24.0
Limestone	17,273	55.7	498	1.3	2,669	4.3	1,687	3.5	1,479	3.4
Pyrophyllite	4,302	12.7	5,682	16.0	2,643	8.6	2,578	7.2	9,164	25.2
Total		93.2		48.5		47.3		10.8		52.6
%		0.45		0.23		0.23		-		0.18
Grand Total		20,648.4		20,700.9		20,425.9		25,913.2		29,261.9

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

Mineral Consumption of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Mineral Fuels and Energy</u>										
Lignite	17,970,429	8,985.2	18,531,550	9,265.8	17,842,528	15,376.6	18,117,685	17,393.0	20,256,989	19,446.7
Total		8,985.2		9,265.8		15,376.6		17,393.0		19,446.7
%		23.55		25.20		35.60		33.70		36.07
<u>Iron and Ferro Alloy</u>										
Iron ore	-	-	3,200	4.1	96,500	-	-	-	-	-
Manganese (metallurgical grade)	-	-	10,425	10.6	11,500	33.4	54,415	157.8	-	-
Total		-		14.7		153.5		157.8		-
%		-		0.0**		0.36		0.31		-
<u>Base Metals</u>										
Antimony ore	-	-	-	-	-	-	56	1.2	-	-
Cadmium metal	25	8.6	-	-	-	-	-	-	-	-
Copper metal	514	87.3	419	109.6	441	76.9	833	193.5	1,824	515.3
Lead metal	-	-	-	-	-	-	-	-	-	-
Tin										
- Tin metal	3,210	1,593.9	4,080	2,525.9	2,603	1,216.5	3,707	2,346.8	3,321	2,648.3
- Tin-lead alloy	718	n.a.	684	n.a.	697	n.a.	1,037	n.a.	985	n.a.
Zinc										
- Zinc alloy	27,236	3,352.6	26,814	1,995.7	24,045	1,517.6	30,873	2,380.1	8,970	714.5
- Zinc metal	57,629	6,897.7	57,902	4,068.6	55,817	3,205.9	61,142	4,390.3	80,601	5,631.4
Total		11,940.1		8,699.8		6,016.9		9,311.9		9,509.5
%		31.30		23.66		13.93		18.05		17.64

Mineral Consumption of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Precious Metals and Precious Stone										
Gem stone (unit : gram)	20,789	n.a.	6,378	n.a.	610	n.a.	240	n.a.	-	-
Total		n.a.		n.a.		n.a.		n.a.		-
%		-		-		-		-		-
Light Metals and Rare Earth										
Zircon	-									
	525	6.7	-	-	-	-	-	-	-	-
Total		6.7		-		-		-		-
%		0.0**		-		-		-		-
Cement Industrial Minerals										
Anhydrite	58,360	26.7	13,748	6.1	-	-	32,634	16.5	3,290	1.6
Cement clay	94,999	8.5	3,692,042	332.3	4,876,744	438.9	6,833,705	615.0	6,525,005	587.3
Gypsum (unground)	2,352,592	1,080.5	2,467,276	1,121.7	2,363,350	1,312.2	3,271,973	1,685.1	3,657,190	1,810.3
Limestone	62,361,409	5,300.7	55,969,381	5,712.2	54,882,205	6,585.9	60,614,383	7,273.7	62,530,873	7,503.7
Marl	31,550	2.7	41,900	3.6	86,550	7.4	69,550	5.9	69,000	5.9
Shale	4,545,900	403.9	3,912,722	425.2	4,078,561	509.8	4,126,822	515.9	4,343,767	543.0
Total		6,823.0		7,601.1		8,854.2		10,112.1		10,451.8
%		17.89		20.67		20.50		19.60		19.38

Mineral Consumption of Thailand 2007 - 2011

Quantity : Tonnes

Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Ceramic Industrial Minerals</u>										
Ball clay	345,179	189.9	262,598	144.4	221,472	121.8	253,292	139.3	324,386	178.4
Ceramic clay	45	0.0**	135,241	74.4	226,849	124.8	233,286	128.3	276,466	152.1
Dolomite	494,183	173.0	669,702	234.4	786,973	275.4	722,216	252.8	1,194,362	418.0
Feldspar										
- Potassium (ground)	-	-	45	0.1	52	0.1	-	-	-	-
- Potassium (unground)	2,070	3.6	1,004	1.7	2,906	4.9	3,330	5.7	13,935	23.7
- Sodium (ground)	193,860	271.4	201,745	282.4	170,723	239.0	171,233	239.7	165,403	231.6
- Sodium (unground)	89,245	62.5	90,205	63.1	139,750	97.8	239,877	167.9	214,211	150.0
Glass sand	828,020	289.8	486,790	170.4	355,133	124.3	364,215	127.5	196,778	68.9
Kaolin										
- Filler	8,585	16.3	6,111	11.6	3,774	7.2	3,837	7.3	4,029	7.7
- Unwashed	475,664	183.1	460,689	175.9	471,121	181.4	404,635	155.8	635,639	244.7
- Washed	160,070	153.7	159,059	152.7	135,265	129.9	165,187	158.6	148,741	142.8
Quartz										
- Ground	934	0.7	2,410	1.8	2,494	1.9	2,908	2.2	4,706	3.5
- Unground	200	0.2	100	0.1	4,250	3.2	29,433	22.1	64,300	48.2
Total		1,344.2		1,313.0		1,311.7		1,407.2		1,669.6
%		3.52		3.57		3.04		2.73		3.10

Mineral Consumption of Thailand 2007 - 2011

Quantity : Tonnes

Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Dimension Stone</u>										
Gneiss	42	0.2	109	0.4	46	0.2	100	0.4	60	0.2
Granite	9,652*	49.1	7,628*	38.9	6,102*	31.1	54,553*	278.2	16,062*	81.9
Limestone	43	0.1	34	0.1	41	0.1	34	0.1	12	0.0**
Marble	14,385*	52.8	10,590*	39.1	68,994*	255.3	182,996*	677.1	128,512*	475.5
Sand stone	820	0.6	500	0.3	640	0.4	2,642	1.8	2,883	2.0
Travertine	3,430	6.9	3,280	6.6	2,910	5.8	1,720	3.4	900	1.8
Total		109.7		85.4		292.9		961.0		561.4
%		0.29		0.23		0.68		1.86		1.04
<u>Industrial Rock</u>										
Andesite	1,265,647	126.6	980,541	112.2	765,806	103.4	1,230,985	166.2	799,192	107.9
Basalt	9,558,772	955.9	8,736,654	1,010.7	10,878,292	1,468.6	12,164,953	1,642.3	10,985,713	1,483.1
Granite	5,019,764	502.0	4,620,994	551.5	4,865,279	656.8	4,199,593	566.9	5,003,452	675.5
Grawacke	744,666	52.1	719,682	61.8	765,450	80.4	914,307	96.0	934,171	91.1
Limestone	83,524,932	5,846.7	68,801,246	5,896.6	62,552,086	6,567.9	69,205,206	7,266.5	71,118,597	7,467.5
Marble (fragment)	940,381*	211.6	628,165*	141.3	851,561*	191.6	1,078,912*	350.6	535,439*	174.0
Perlite	15,600	11.0	16,625	11.7	11,350	8.0	11,634	8.2	13,796	9.7
Quartz	-	-	-	-	-	-	200	0.0**	15,576	1.6
Rhyolite	796,406	55.8	274,627	25.4	243,270	25.5	334,891	35.2	647,913	68.0
Sand stone	127,646	6.4	136,325	10.3	116,885	11.7	187,048	18.7	298,452	29.8
Total		7,768.1		7,821.5		9,113.9		10,150.6		10,108.2
%		20.36		21.27		21.10		19.68		18.8

Mineral Consumption of Thailand 2007 - 2011

Quantity : Tonnes

Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Other Industrial Minerals										
Barite										
- Chemical grade (ground)	1,025	6.1	-	-	49	0.3	-	-	-	-
- Drilling mud (ground)	800	3.1	-	-	-	-	-	-	-	-
- Unground	2,140	3.2	6,210	9.2	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
Calcite	677,601	133.5	817,801	161.1	477,732	94.1	578,500	113.9	439,759	86.6
Diatomite	1,700	1.5	4,400	4.0	5,730	5.2	7,625	6.9	11,300	10.2
Fluorite (metallurgical grade)	3,182	12.9	19,756	80.3	7,622	30.9	1,412	5.7	2,832	11.5
Limestone	4,036,792	343.1	3,908,735	394.8	3,266,563	392.0	3,383,776	406.1	4,304,560	516.6
Phosphate	2,500	1.0	2,475	1.0	12,506	5.2	2,316	1.0	344	0.1
Pyrophyllite	249,536	87.3	84,336	29.5	5,630	2.0	2,205	0.8	5,300	1.9
Rock salt	1,154,459	577.2	1,200,901	1,292.2	1,380,363	1,518.4	1,396,015	1,535.6	1,351,073	1,486.2
Talc (unground)	3,400	2.0	3,249	2.0	488	0.3	647	0.4	3,024	1.8
Total		1,170.9		1,974.1		2,069.9		2,090.3		2,170.4
%		3.07		5.37		4.79		4.05		4.02
Grand Total		38,147.9		36,775.4		43,189.6		51,583.9		53,917.6

:- n.a. = not available :- 0* = denoting the amount of less than 0.1 metric tonnes :- 0.0** = denoting the amount of less than 0.05 million baht

Mineral Import of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Mineral Fuels and Energy</u>										
Anthracite	305,460	836.4	242,197	1,280.4	677,522	2,209.5	367,817	1,539.6	210,701	1,407.3
Bituminous coal	7,607,862	15,426.9	7,299,492	17,465.6	7,066,802	16,445.4	6,619,170	15,548.3	4,484,690	13,077.7
Coke	66,317	663.8	52,593	1,040.3	117,544	1,224.2	208,729	2,922.0	108,164	1,667.5
Lignite	0.5	0.7	6	0.1	23	0.5	79	1.2	15	0.3
Peat	213,511	3,324.9	4,874	45.0	6,237	51.6	7,770	64.7	9,644	81.7
Other coal	6,288,470	9,398.8	8,379,841	16,624.7	8,520,470	17,003.1	9,700,720	19,286.5	11,459,285	25,973.6
Total		29,651.5		36,456.1		36,934.3		39,362.3		42,208.2
%		58.26		64.17		67.65		70.14		71.37
<u>Iron and Ferro Alloy</u>										
Chromite ore	2,538	25.7	2,235	35.9	1,140	14.8	2,785	37.6	2,202	40.4
Cobalt ore	-	-	-	-	0*	0.1	-	-	-	-
Columbite	-	-	25	21.9	123	95.8	-	-	196	81.0
Iron ore	76	2.1	10,216	69.5	192,062	509.9	457,508	1,689.8	161,427	770.2
Iron Pyrites	231	3.8	243	4.5	189	3.4	314	4.2	230	3.1
Manganese ore	201	13.7	694	9.5	50	1.6	4,530	17.8	18,633	42.8
Molybdenite ore	5	0.6	1,427	277.1	4,771	500.4	9,864	1,627.7	10,420	1,406.1
Nickel ore	1,816	10.2	400	2.3	1	0.1	0.2	0.1	4	4.2
Tungsten										
- Wolfram	-	-	-	-	8	0.7	7	0.1	39	2.9
- Other tungsten	0.2	0.1	-	-	-	-	-	0.0**	-	0.0**
Total		56.2		420.7		1,126.8		3,377.3		2,350.7
%		0.11		0.74		2.06		6.02		3.98

Mineral Import of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Base Metals</u>										
Aluminium ore	31,749	150.1	51,779	480.4	31,519	297.1	32,051	270.3	32,736	284.9
Antimony ore	1,072	15.3	1,218	22.0	1,496	23.8	4,356	134.6	8,803	263.1
Copper	74,624	4,635.5	16	0.2	25	0.6	374	4.9	352	4.1
Lead ore	20	0.3	26	0.4	0.2	0.0**	283	5.5	32	0.7
Tin ore	12,974	3,980.3	18,771	5,865.6	17,985	4,272.0	3,432	685.0	2,716	257.2
Zinc ore	169,623	6,204.2	193,809	3,499.3	148,441	1,845.4	174,586	3,781.4	125,818	3,273.4
Total		14,985.7		9,867.9		6,438.9		4,881.7		4,083.4
%		29.44		17.37		11.80		8.70		6.90
<u>Precious Metals and Precious Stone</u>										
Emery	3,704	40.9	4,411	55.1	3,900	47.2	4,812	53.7	4,804	52.7
Silver ore	8	2.0	13	0.6	13	0.6	25	1.3	19	1.7
Total		42.9		55.7		47.8		55.0		54.4
%		0.09		0.10		0.09		0.10		0.09
<u>Light Metals and Rare Earth</u>										
ilmenite ore	70	1.6	21,041	1.4	125	3.1	63	1.5	73	3.3
Niobium and Vanadium ore	11,409	400.7	17,591	346.6	10,773	38.0	11,863	1,101.8	8,075	686.1
Titanium ore										
- Rutile	2,487	54.9	6,779	94.4	7,331	68.5	7,276	77.9	6,684	181.5
- Leucoxene	5,747	125.2	7,371	165.5	4,535	122.9	8,080	215.2	3,389	104.6
- Ilmenite	821	7.3	920	8.6	880	8.1	840	8.1	680	8.2
- Other Titanium ore	1,168	23.6	371	9.4	319	5.8	1,003	27.7	1,035	67.3

Mineral Import of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Light Metals and Rare Earth</u>										
Thorium ore	-	-	-	-	-	-	0*	0.1	20,069	114.8
Tantalite	348	213.3	11,043	91.8	-	-	-	-	483	946.8
Uranium ore	1	0.3	-	-	-	-	-	-	-	-
Zirconium ore	8,885	268.5	48,724	623.9	18,138	266.8	47,451	493.1	46,633	1,351.6
Total		1,095.4		1,341.6		513.2		1,925.4		3,464.2
%		2.15		2.36		0.94		3.43		5.86
<u>Cement Industrial Minerals</u>										
Anhydrite	126	1.1	0*	0.0**	4	0.0**	25	0.7	-	0.0**
Gypsum	605	6.2	470	7.2	452	8.5	522	9.0	614	9.9
Limestone	441	3.7	2,072	2.2	4,045	3.8	76	2.4	16	0.1
Total		11.0		9.4		12.3		12.1		10.0
%		0.02		0.01		0.02		0.02		0.02
<u>Ceramic Industrial Minerals</u>										
Andalusite, Kyannite and Sillimanite	1,791	21.1	2,858	36.0	2,304	33.8	2,856	41.5	3,555	47.5
Attapulgit	3	0.1	116	1.2	7	0.6	146	1.1	412	3.2
Ball Clay	33,579	111.8	28,981	94.3	20,508	64.2	6,592	42.4	5,463	33.8
Dolomite	505	6.2	502	6.3	595	8.5	977	11.6	1,224	12.2
Feldspar										
- Potassium	34,448	70.9	32,446	100.9	28,996	89.5	25,928	81.4	33,342	104.6
- Sodium	7,098	16.8	16,592	35.8	7,850	19.0	3,010	11.1	3,772	13.8
- Other Feldspar	15,598	47.3	14,339	49.4	3,590	22.3	3,891	24.0	3,935	22.1

Mineral Import of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Ceramic Industrial Minerals</u>										
Kaolin										
- Ceramic	18,061	169.0	12,204	149.7	8,410	102.0	13,880	147.3	16,907	141.9
- Paper	7,202	63.4	11,989	105.0	4,534	54.9	5,918	62.5	4,423	42.7
- Others	52,856	412.1	59,004	468.2	68,336	405.7	65,956	536.9	65,691	543.5
Lucite, Nepheline and Nepheline Syenite	1,224	9.7	2,786	22.8	1,805	16.8	1,489	15.1	1,535	14.5
Mullite	1,740	27.6	1,466	25.1	902	15.5	1,771	26.1	1,671	23.3
Quartz	3,499	11.3	1,884	8.4	2,595	10.9	2,572	23.5	3,127	14.0
Silica sand	58,251	168.4	66,685	258.3	31,013	106.2	28,195	94.6	27,943	120.3
Total		1,135.7		1,361.4		949.9		1,119.1		1,137.6
%		2.23		2.40		1.74		2.00		1.92
<u>Dimension Stone</u>										
Ecaussine	392	2.8	104	0.9	11	0.1	2	0.0*	3	0.7
Marble	32,166	231.9	39,215	301.0	39,806	313.4	45,010	322.0	49,532	364.0
Granite	258,084	555.0	138,162	538.7	137,656	553.7	138,476	476.9	136,495	482.9
Travertine	0.3	0.0**	-	-	0.1	0.0**	0.1	0.0**	0.1	0.1
Sandstone	3,779	19.6	939	9.2	738	12.0	0*	0.0**	-	-
Slate	637	2.0	179	2.7	-	-	346	4.4	21	0.3
Total		811.3		852.5		879.2		803.3		848.0
%		1.59		1.50		1.61		1.43		1.44

Mineral Import of Thailand 2007 - 2011

Quantity : Tonnes
Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<u>Industrial Rock</u>										
Basalt	18,992	95.8	20,857	112.4	17,091	98.8	268,767	102.3	57,184	103.5
Flint	3,123	14.5	1,929	16.2	1,663	13.7	6,503	15.2	45,200	22.9
Pumice stone	5,520	47.1	5,194	50.4	4,213	44.8	5,286	56.5	5,077	58.6
Vermiculite, Perlite and Chlorites	1,017	8.0	1,437	11.2	1,192	9.7	1,944	14.9	3,133	28.8
Total		165.4		190.2		167.0		188.9		213.9
%		0.33		0.34		0.31		0.33		0.36
<u>Other Industrial Minerals</u>										
Apatite										
- Ground	-	-	1,611	14.4	1,815	25.8	3,140	39.5	2,705	17.8
- Unground	19.0	0.2	-	-	-	-	-	-	2	0.0**
Asbestos	86,525	920.7	94,278	1,071.6	102,739	1,432.7	79,250	1,121.5	81,411	1,111.9
Barite	78,408	228.6	96,433	391.6	57,452	178.7	78,862	274.1	94,650	399.2
Bentonite	39,345	207.9	54,345	378.4	42,429	272.5	65,096	408.2	103,555	505.9
Calcite	1,672	5.4	1,109	3.5	-	-	-	-	-	-
Chalk	16	0.7	13	0.6	9	0.7	31	1.2	62	1.6
Fireclay	28	0.7	81	1.4	67	1.1	4,688	61.6	1,621	20.6
Fluorite	619	12.7	841	11.2	472	10.8	508	9.8	1,022	18.0
Kieserite	19,238	86.9	29,768	269.2	8,189	63.2	2,847	17.1	8,062	57.6
Epsomite	481	2.5	-	-	-	-	-	-	-	-
Mica	5,176	98.4	4,904	107.2	2,991	80.7	5,504	125.3	4,860	128.8
Monazite	2	0.0**	-	-	-	-	-	-	-	-
Orpiment	773	7.1	20	0.2	-	-	0.1	0.0**	1	0.0**

Mineral Import of Thailand 2007 - 2011

Quantity : Tonnes

Value : Million Baht

Mineral	2007		2008		2009		2010		2011	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Other Industrial Minerals										
Phosphate										
- Ground	11,920	34.8	10,530	46.2	11,670	66.6	356	3.0	71	0.7
- Unground	0.5	0.3	-	-	-	-	11,000	25.0	1	0.1
Graphite	760	43.4	1,792	66.9	898	48.0	1,372	75.9	1,397	98.2
Magnesite	5,808	95.8	10,538	193.7	2,028	40.2	3,530	48.9	4,429	62.7
Steatite	5,602	37.9	4,705	67.0	2,632	14.1	2,295	11.6	1,451	10.1
Potash	-	-	-	-	0*	0.0**	-	-	-	-
Pyrophyllite	187	1.1	-	-	-	-	-	-	-	-
Rock salt	5	0.1	700	10.9	2	0.0**	1	0.0**	5	0.1
Sulphur	71,184	361.2	119,862	2,581.6	57,076	196.3	132,199	713.9	125,722	937.7
Talc	98,735	791.9	116,906	1,033.8	100,919	5,089.2	135,219	1,452.9	126,254	1,380.8
Witherite	391	4.4	698	6.4	450	4.1	501	4.8	1,149	16.6
Total		2,942.7		6,255.8		7,524.7		4,394.3		4,768.5
%		5.78		11.01		13.78		7.83		8.06
Grand Total		50,897.8		56,811.3		54,594.1		56,119.4		59,138.7

0* denoting the amount of less than 0.1 metric tonnes

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

Mineral Royalty of Thailand 2007-2011

unit: Thousand Baht

Mineral	2007	2008	2009	2010	2011
Andesite (Industrial rock)	5,211.04	4,897.63	3,933.00	7,318.19	6,663.09
Anhydrite	11,895.05	11,167.13	11,969.62	12,399.08	13,914.01
Antimony	234.02	153.74	182.07	1,104.75	690.71
Ball clay	9,028.84	10,304.72	7,922.92	8,172.66	7,653.40
Barite					
- Chemical grade (ground)	512.32	388.64	208.26	231.66	258.66
- Unground	1,158.00	2,789.71	5,351.24	3,838.87	2,849.53
Basalt (Industrial rock)	41,152.91	41,845.61	57,733.48	67,462.88	67,554.54
Bentonite	-	-	240.00	240.00	1,200.00
Calcite	5,353.36	6,414.72	4,101.28	5,683.93	6,673.37
Ceramic clay	0.99	5,646.74	5,170.92	9,861.71	10,122.74
Cement clay	240.07	9,143.21	8,410.87	24,984.02	32,440.04
Conglomerate (Industrial rock)	261.20	87.26	127.18	298.60	345.36
Copper Ore	1.68	2.42	1,349.64	5,022.33	4,217.55
Diatomite	21.60	79.20	103.14	137.25	203.40
Dolomite	14,971.00	18,726.71	27,271.51	36,937.79	38,075.36
Feldspar					
- Potassium (ground)	-	5.88	-	24.00	-
- Potassium (unground)	140.76	68.27	522.64	212.84	1,196.73
- Sodium (ground)	10,020.16	9,937.38	9,199.40	9,709.42	7,155.24
- Sodium (unground)	10,991.06	11,725.14	11,325.08	9,842.18	17,424.37
Fluorite	1,388.89	6,494.04	4,027.81	1,285.60	2,640.91
Garnet	-	-	12.00	12.00	12.00
Gem stone	22.44	133.00	141.00	-	-
Glass sand	20,552.28	13,085.96	12,452.55	9,559.81	2,555.22
Gneiss (Dimension stone)	43.20	3.20	3.20	16.00	16.00
Gold Ore	74,127.97	132,711.26	356,714.67	388,262.13	419,771.42

Mineral Royalty of Thailand 2007-2011

unit: Thousand Baht

Mineral	2007	2008	2009	2010	2011
Granite					
- Dimension stone	1,517.72	1,344.92	1,449.02	1,246.63	1,131.02
- Industrial rock	21,015.96	23,066.11	28,691.83	27,005.11	29,913.05
Graywacke	1,320.67	1,843.46	1,781.61	2,408.26	3,108.08
Gypsum	161,833.99	157,159.43	192,455.57	214,696.61	216,210.16
Ilmenite	1,563.30	375.70	563.94	-	58.42
Iron Ore	66,906.42	112,318.07	38,622.58	76,185.71	31,556.92
Kaolin					
- Filler	786.32	650.52	616.24	881.34	1,001.60
- Unwashed	9,070.82	8,210.68	8,569.13	7,334.57	12,770.39
- Washed	4,890.11	4,974.75	4,077.01	4,787.02	5,121.76
Lead Ore	-	24,882.53	7,568.27	-	-
Lignite	361,758.00	370,781.45	601,707.09	713,015.84	769,432.59
Limestone					
- Dimension stone	3.40	2.72	3.12	2.88	2.16
- Industrial rock-construction	252,779.56	251,446.49	302,790.69	316,833.66	304,949.19
- Industrial rock-cement	366,924.29	391,152.12	477,311.26	518,157.58	519,311.47
- Industrial rock-others	22,947.96	18,428.16	16,142.47	17,727.08	20,671.55
Manganese					
- Battery grade	22.93	-	-	-	-
- Metallurgical grade	-	-	-	170.59	-
- Metallurgical-others	259.94	699.65	1,332.08	4,266.99	-
Marble					
- Dimension stone	2,516.45	1,660.76	1,377.36	1,655.36	1,165.93
- Fragment	9,264.25	17,123.20	21,587.55	16,554.04	5,564.77
Marl	124.95	151.98	328.95	255.85	262.14
Monazite	312.15	70.64	-	282.50	83.73

Mineral Royalty of Thailand 2007-2011

unit: Thousand Baht

Mineral	2007	2008	2009	2010	2011
Perlite (Industrial rock)	604.25	553.48	379.10	537.18	474.32
Phosphate	36.61	42.43	25.21	117.31	90.52
Pyrophyllite	3,473.75	1,196.00	1,363.43	225.05	152.74
Quartz	152.46	124.86	275.73	2,154.38	2,873.40
Rhyolite (Industrial rock)	2,229.94	938.62	1,021.73	1,439.41	1,827.48
Rock salt	22,429.40	51,196.40	61,273.98	62,260.00	56,809.37
Rutile	-	-	246.54	-	25.54
Sand Stone					
- Dimension stone	34.75	8.21	36.75	75.29	78.88
- Industrial rock	1,862.51	378.72	481.36	721.08	1,265.28
Scheelite	1,029.18	910.20	910.20	1,653.54	1,062.41
Shale (Industrial rock-cement)	28,504.70	31,300.32	35,912.33	36,536.86	40,500.82
Silver Ore	11,446.33	9,107.59	26,384.07	35,880.00	66,052.69
Struverite	2,451.76	87.56	87.56	78.81	2,622.15
Talc	81.79	79.54	12.10	14.98	50.69
Tin	14,961.93	8,202.21	4,661.27	11,912.33	20,529.68
Tin Slag (Ta ₂ O ₅ <13%)	-	7.58	31.49	27.93	-
Tin Slag (Ta ₂ O ₅ <5%)	-	-	-	-	166.01
Travertine (Dimension)	287.44	318.64	303.36	189.60	73.60
Wolfram	3,503.35	5,913.69	697.02	1,690.58	777.69
Xenotime	254.54	1,050.44	47.44	60.83	149.98
Zinc					
- Metal	88,553.05	38,055.92	45,079.69	38,191.39	34,819.29
- Ore	-	42.75	344.21	-	-
Zircon	342.50	-	28.10	-	45.35
Total	1,675,388.26	1,821,670.08	2,415,051.91	2,719,851.88	2,796,396.45