

Statistics Report
BPI 1/2009

THAILAND
METAL STATISTICS YEAR 2008

Kittiphan Bangyikhan

Bureau of Primary Industries
Department of Primary Industries and Mines

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PREFACE

The publication of metal statistics entitled "Thailand Metal Statistics Year 2008" covers production, import, export and price of metal products of the country.

This publication has been published to serve the market for various industries and business.

We welcome your input for ideas, mistake corrections and suggestions for future update.

Bureau of Primary Industries

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OVERALL

Table 1 Overall Metal Production Statistics 2006-2008**Unit : Metric Tonnes****Value : Million Baht**

ITEM	Quantities			Value ^E		
	2006	2007	2008	2006	2007	2008
1. Antimony	544	271	422	115	60	95
2. Lead	61,160	73,159	73,303	3,670	7,755	6,744
3. Steel^{1/}	10,134	10,659	9,994	207,750	268,500	299,820
4. Tantalum Powder	230	142	158	2,570	1,429	1,821
5. Tin	27,540	23,104	21,860	10,050	12,453	14,668
6. Zinc	94,779	99,337	107,753	12,700	12,914	9,159
7. Gold and Silver	16.1	10.4	8.3	3,225	2,194	2,671
- Gold	4.3	3.0	2.8	3,070	2,094	2,582
- Silver	11.8	7.4	5.5	155	100	89
8. Copper	27,050	12,714	438	7,275	3,445	116

1/ : Unit in 1,000 Tonnes

E : Estimate

PRODUCTION

Table 2 Nonferrous Production Statistics 2004 - 2008

Unit : Metric Tonnes

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Antimony	2	460	544	271	422	56
2. Lead	57,500	61,100	61,160	73,159	73,303	0
3. Tantalum Powder	317	150	230	142	158	11
4. Tin	20,800	31,600	27,540	23,104	21,860	-5
5. Zinc	115,500	104,500	94,780	99,337	107,753	8
6. Gold and Silver	15.2	18.5	16.1	10.4	8.3	-21
- Gold	4.5	4.4	4.3	3.0	2.8	
- Silver	10.7	14.1	11.8	7.4	5.5	
7. Copper	5,800	15,800	27,050	12,714	438	-97

1/ : % Changes as compared with 2007

Table 3 Steel Production Statistics 2004 - 2008

Unit : 1,000 Tonnes

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Semi-finished Products	4,144	4,232	5,050	5,894	5,429	-8
2. Long Products ^{E1}	4,907	4,578	3,280	3,912	3,054	-22
3. Flat Products	5,783	5,757	5,375	5,304	5,475	3
Hot-Rolled Coils / Plates	3,840	4,434	3,995	3,995	3,670	
Cold-Rolled Coils	1,943	1,323	1,380	1,315	1,805	
4. Others Products ^{2/}	17	26	49	47	49	4
5. Coated Steel	1,042	850	1,010	984	983	0
Tinplates	335	228	300	216	253	
Tin Free Steel	137	129	150	158	156	
Galvanized Sheets	440	311	320	304	288	
Zincalume, Colorbond, ShutterEx and Paint	129	182	240	306	287	
6. Pipes & Tubes ^{E2}	436	406	420	414	434	5
Steel Products Total ^{3/}	12,185	11,617	10,134	10,661	9,994	-6

1/ : % Changes as compared with 2007

2/ : Electric Arc Furnace - EAF

3/ : Excludes Item 1

E1 : Estimates (Included Bars, Wire Rods and Sections)

E2 : Bank of Thailand

IMPORT

Table 4 Aluminium Import Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Scrap	31,177	31,784	53,405	49,837	101,207	103
Value	1,768	1,893	3,923	3,576	6,781	90
2. Unwrought	392,748	386,924	418,445	420,857	437,359	4
Aluminium	184,760 ^E	165,084	197,606	205,877	199,079	-3
Aluminium alloys	207,988	221,841	220,838	214,980	238,280	11
Value	28,092	30,586	41,012	40,043	40,759	2
3. Powders & Flakes	1,021	434	546	648	744	15
Value	75	92	110	116	141	22
4. Bars, Rods & Profiles	4,141	5,905	9,472	9,919	10,013	1
Aluminium	650	527	405	700	1,182	69
Aluminium alloys	3,490	5,378	9,067	9,219	8,831	-4
Value	680	970	1,400	1,505	1,476	-2
5. Wire	3,258	2,685	2,952	3,438	3,882	13
Aluminium	225	175	90	94	86	-9
Aluminium alloys	3,033	2,510	2,862	3,344	3,796	14
Value	366	339	466	522	541	4
6. Plates, Sheets & Strip (t > 0.2mm)	80,949	47,690	31,918	40,411	36,059	-11
Aluminium	9,670	9,356	9,899	10,953	12,977	18
Aluminium alloys	71,278	38,333	22,019	29,458	23,082	-22
Value	9,354	5,809	4,621	5,570	5,512	-1
7. Foil (t ≤ 0.2mm)	33,275	13,517	12,836	15,001	16,920	13
Not backed	28,054	9,086	8,031	10,297	11,105	8
Backed	5,221	4,431	4,806	4,704	5,815	24
Value	5,493	2,057	1,968	2,299	2,657	16
8. Tubes, Pipes & Fittings	3,091	6,142	6,670	6,893	9,775	42
Tubes & Pipes	2,839	5,781	6,158	6,441	9,363	45
Fittings	251	361	512	452	412	-9
Value	1,102	1,875	2,121	1,841	2,370	29
Total Quantity	549,659	495,081	536,244	547,004	615,959	13
Total Value	46,929	43,621	55,621	55,472	60,236	9

1/ : % Changes as compared with 2007

E : Estimates (Source of Customs Department : Quantity of Aluminium unwrought is 1,182,453 tonnes)

Table 5 Copper Import Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Matte & Cement	1	1	71	403	1,175	192
Value	0	0	3	12	13	8
2. Scrap	6,560	5,015	6,426	7,583	9,187	21
Value	608	602	1,227	1,646	1,994	21
3. Unwrought	282,313	246,279	310,884	363,637	273,849	-25
Copper	229,840	235,715	301,123	357,575	266,968	-25
Copper alloys	52,473	10,564	9,761	6,062	6,881	14
Value	27,838	35,596	69,499	64,667	67,781	5
4. Powders & Flakes	721	1,242	1,090	2,553	2,205	-14
Value	167	1,655	278	687	702	2
5. Bars, Rods & Profiles	7,733	11,227	13,422	12,157	14,530	20
Copper	946	2,219	1,802	1,245	957	-23
Copper alloys	6,786	9,008	11,620	10,912	13,573	24
Value	1,255	1,664	3,001	2,996	3,492	17
6. Wire	52,436	39,097	39,950	37,845	36,446	-4
Copper	49,166	35,934	36,437	34,224	31,678	-7
Copper alloys	3,270	3,163	3,513	3,621	4,768	32
Value	6,838	6,431	10,838	13,206	9,681	-27
7. Plates, Sheets & Strip (t > 0.15 mm)	34,939	35,374	39,949	39,158	44,693	14
Copper	11,217	11,836	12,592	14,375	17,571	22
Copper alloys	23,722	23,539	27,357	24,783	27,122	9
Value	7,027	8,048	11,976	12,442	15,012	21
8. Foil (t ≤ 0.15 mm)	15,844	13,215	13,486	14,594	15,579	7
Not backed	7,519	8,012	8,112	7,974	7,633	-4
Backed	8,325	5,203	5,373	6,620	7,946	20
Value	4,159	4,461	5,312	6,075	6,547	8
9. Tubes, Pipes & Fittings	13,778	14,943	17,793	20,988	23,131	10
Tubes & Pipes	13,268	13,898	16,530	19,441	21,923	13
Fittings	510	1,046	1,263	1,547	1,208	-22
Value	2,698	3,293	4,732	6,397	8,182	28
Total Quantity	414,323	366,394	443,071	498,918	420,795	-16
Total Value	50,590	61,750	106,865	108,128	113,404	5

1/ : % Changes as compared with 2007

Table 6 Iron and Steel Import Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Pig Iron/DRI/HBI	918,151	967,640	574,104	924,055	792,194	-14
Value	8,204	11,740	7,387	12,271	17,039	39
2. Ferro-alloys	84,389	79,975	97,021	106,645	106,916	0
Ferro-chromium	11,031	15,616	18,317	23,252	22,213	-4
Ferro-manganese	12,209	9,597	14,476	12,935	9,606	-26
Ferro-silicon	26,240	24,142	27,348	29,999	34,624	15
Ferro-silicon-manganese	32,602	27,748	34,377	36,350	37,930	4
Other	2,307	2,873	2,503	4,109	2,543	-38
Value	3,494	3,191	3,229	4,533	7,460	65
3. Scrap	1,849,787	1,683,042	1,372,761	1,784,006	2,577,354	44
Carbon Steel	1,696,333	1,451,420	1,179,579	1,330,248	1,863,758	40
Cast Iron	78,531	194,201	139,908	360,120	651,193	81
Stainless Steel	4,650	3,646	5,496	5,364	5,153	-4
Other Alloy Steel	70,009	33,624	47,631	88,171	57,250	-35
Other	263	152	147	102	0	-100
Value	21,383	19,527	14,796	21,329	45,849	115
4. Semi-Finished Products	5,012,311	5,709,947	3,924,818	2,444,718	3,428,102	40
Billet	2,151,221	1,825,237	1,525,704	817,677	1,068,921	31
Billet & Slab (≥ 0.25 C)	470,573	366,324	281,691	194,266	109,297	-44
Ingot	732	475	523	1,433	7,740	440
Slab	2,317,763	3,475,634	2,083,935	1,294,888	2,096,285	62
Other	72,022	42,277	32,966	136,454	145,859	7
Value	79,227	95,353	57,676	41,166	86,789	111
5. Long Products	930,379	1,301,349	1,562,096	1,360,198	1,518,679	12
Angles, Shapes & Sections	12,991	21,695	16,739	42,122	55,579	32
Bars	334,562	400,010	811,642	405,171	492,821	22
Cold-drawn Bars	43,618	51,840	54,472	60,684	108,831	79
Wire Rods	448,759	715,663	553,703	645,724	628,291	-3
Wires	90,450	112,141	125,539	206,497	233,157	13
Value	27,549	21,695	38,726	43,242	79,991	85
6. Hot Rolled Flat Product	2,718,985	2,940,612	2,362,645	2,934,373	3,137,655	7
Coil	2,466,459	2,597,199	2,140,582	2,654,457	2,885,701	9
Plate & Sheet	210,669	173,881	174,226	271,510	244,692	-10
Strip	41,856	169,533	47,837	8,407	7,262	-14
Value	60,749	84,206	66,241	82,869	106,397	28

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
7. Cold Rolled Flat Product	738,613	857,447	841,489	638,460	609,498	-5
Coil	521,280	551,868	587,060	442,346	402,116	-9
Plate & Sheet	168,302	233,430	186,783	148,733	154,140	4
Strip	49,032	72,149	67,645	47,381	53,242	12
Value	24,553	34,134	32,550	26,252	28,911	10
8. Coated Products	1,086,426	1,459,211	1,529,278	1,702,817	826,985	-51
Chromium Plate	33,492	30,832	37,227	49,208	60,145	22
Electro Galvanized	131,444	151,667	153,402	153,236	165,833	8
Hot dip Galvanized	555,110	865,591	804,205	926,608	105,275	-89
Tinplate	99,193	75,319	100,506	132,601	140,601	6
Other	132,604	201,851	281,408	165,303	194,378	18
Zincalume/ Color Coated	134,583	133,951	152,530	275,862	160,753	-42
Value	31,689	51,360	46,856	52,957	30,559	-42
9. Pipes & Fittings	329,144	500,451	1,075,658	488,636	463,549	-5
Fittings	17,132	22,187	26,072	30,856	46,214	50
Seam Pipes	104,856	114,549	102,611	293,210	167,065	-43
Seamless Pipes	207,157 ^E	363,715	946,974	164,570	250,270	52
Value	18,301	29,663	44,461	30,694	44,603	45
10. Sheet Piling	714	150	76	2,967	2,156	-27
Stainless Steel	-	0	3	20	1	-95
Other Alloy Steel	-	-	-	-	-	-
Other	714	149	73	2,947	2,155	-27
Value	14	6	10	263	118	-55
11. Rails and Accessories	10,909	17,889	22,655	14,837	12,340	-17
Value	266	712	658	548	691	26
Finished Steel Products Total^{2/}	5,815,170	7,077,109	7,393,894	7,142,288	6,570,862	-11
Finished Steel Products Value^{2/}	163,121	221,775	229,502	236,827	291,270	27
Total Quantity	13,679,807	15,517,712	13,362,598	12,401,711	13,475,428	1
Total Value	275,429	351,586	312,589	316,126	448,407	43

1/ : % Changes as compared with 2007

2/ : Excludes item 1 - 4

E : Estimates (Source of Customs Department : Quantity of Seamless Pipes from Japan and Malaysia under code 7304100001 is 350,145 and 51,199 tonnes respectively)

Table 7 Lead Import Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Scrap	29	3	1	4,877	3,330	-
Value	3	2	0	227	127	-
2. Unwrought	81,244	74,918	87,142	73,971	62,341	-16
Lead	75,086	66,554	78,136	65,853	53,818	-18
Lead alloys	6,159	8,364	9,006	8,118	8,523	5
Value	3,194	3,275	4,404	6,949	5,268	-24
3. Powders & Flakes	7	94	27	50	34	-32
Value	7	5	2	4	4	22
4. Bars, Rods, Profiles & Wire	483	364	306	269	69	-74
Value	167	160	203	212	45	-79
5. Plates, Sheets, Strip & Foil	114	92	84	74	121	63
Value	25	18	15	22	28	26
6. Tubes, Pipes & Fittings	6	0	2	8	3	-62
Value	1	0	1	1	1	-25
Total Quantity	81,884	75,471	87,562	79,249	65,898	-17
Total Value	3,398	3,460	4,625	7,415	5,473	-26

1/ : % Changes as compared with 2007

Table 8 Nickel Import Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Matte & Sinters	0	8,717	1,557	312	6	-98
Value	0	206	146	8	5	-41
2. Scrap	64	89	80	116	131	13
Value	39	47	68	137	117	-15
3. Unwrought	2,478	2,822	2,403	2,140	2,451	15
Nickel	2,425	2,756	2,353	2,025	2,333	15
Nickel alloys	53	66	50	115	118	3
Value	1,437	1,743	1,871	2,889	2,079	-28
4. Powders & Flakes	125	154	222	109	334	206
Value	101	107	152	126	192	53
5. Bars, Rods & Profiles	22	22	29	22	24	7
Value	22	28	42	38	41	9
6. Wire	162	216	206	133	217	63
Value	101	155	156	164	403	146
7. Plates, Sheets & Strip	101	133	316	398	447	12
Value	49	116	288	507	381	-25
8. Foil	0	1	4	5	3	-44
Value	1	3	9	8 ^E	4	-9
9. Tubes, Pipes & Fittings	62	73	77	33	63	88
Value	33	62	54	41	53	30
Total Quantity	3,013	12,227	4,894	3,268	3,676	12
Total Value	1,782	2,466	2,787	3,917	3,275	-16

1/ : % Changes as compared with 2007

E : Estimates (Source of Customs Department : Value of Nickel foil is 2,360,879 baht.)

Table 9 Tin Import Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Scrap	10	-	-	0	0	-80
Value	1	-	-	0	0	-50
2. Unwrought	9,950	17,377	21,264	15,935	12,956	-19
Tin	9,684	17,142	20,753	15,000	12,345	-18
Tin alloys	266	235	511	935	611	-35
Value	3,393	5,139	6,812	8,099	8,346	3
3. Powders & Flakes	2	6	5	11	6	-42
Value	1	3	3	7	6	-18
4. Bars, Rods, & Profiles	215	219	159	334	141	-58
Value	144	161	117	221	315	43
5. Wire	132	125	113	93	37	-60
Value	12	18	11	18	27	49
6. Plates, Sheets & Strip (t > 0.2mm)	17	194	323	711	198	-72
Value	11	28	24	35	10	-70
7. Foil	1	10	10	0	0	-24
Value	0	1	1	1	0	-98
8. Other	37	32	37	76	40	-47
Value	40	33	40	61	39	-36
Total Quantity	10,365	17,962	21,910	17,159	13,379	-22
Total Value	3,603	5,383	7,009	8,407	8,743	4

1/ : % Changes as compared with 2007

Table 10 Zinc Import Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Scrap	58	65	223	160	95	-41
Value	1	3	14	12	5	-61
2. Unwrought	42,702	33,053	33,758	21,057	31,045	47
Zinc	31,577	23,407	23,073	12,316	20,559	67
Zinc alloys	11,125	9,646	10,685	8,741	10,486	20
Value	2,004	1,895	3,896	2,644	2,342	-11
3. Dust, Powders & Flakes	1,678	2,197	2,219	2,535	3,474	37
Value	112	164	308	365	336	-8
4. Bars, Rods, & Profiles	221	34	49	8	338	na
Value	76	13	7	1	14	na
5. Wire	854	810	801	609	884	45
Value	67	69	113	100	99	-1
6. Plates, Sheets & Strip	666	1,283	517	302	598	98
Value	58	58	20	30	66	118
7. Foil	3	120	0	79	214	170
Value	2	4	0	9	8	-1
8. Tubes, Pipes & Fittings	7	3	62	404	221	-45
Value	2	2	6	12	21	71
Total Quantity	46,189	37,566	37,629	25,154	36,869	47
Total Value	2,321	2,207	4,364	3,172	2,892	-9

1/ : % Changes as compared with 2007

Table 11 Precious Metals Import Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Silver	2,060	2,384	1,569	2,556	1,652	-35
Metal product	1,960 ^E	1,817	1,472	2,300	1,599	-30
Jewellery	100	568	97	256	54	-79
Value	12,937	14,118	15,097	19,303	20,146	4
2. Gold	156	154	128	157	250	60
Metal product	142	144	115	111	240	116
Jewellery	14	10	13	46	10	-78
Value	51,320	84,978	75,015	62,348	220,147	253
3. Platinum	-	-	-	1	3	201
Unwrought / Powder				0	1	1,300
Other				1	2	75
Value	-	-	-	822	1,059	29
4. Palladium	-	-	-	0	0	-10
Unwrought / Powder				0	0	-60
Other				0	0	3
Value	-	-	-	127	123	-3
5. Rhodium	-	-	-	0	0	-91
Unwrought / Powder				0	0	0
Other				0	0	-91
Value	-	-	-	13	2	-87
6. Other	25	44	59	1,801	620	-66
Unwrought / Powder				0	0	0
Other				1,801	620	-66
Value	1,200	1,393	1,360	566	1,418	151
Total Quantity	2,242	2,583	1,756	4,515	2,525	-44
Total Value	65,457	100,489	91,472	83,179	242,895	192

1/ : % Changes as compared with 2007

2/ : Includes Palladium, Rhodium, Iridium, Osmium and Ruthenium

3/ : Catalyst, Reports, Dishes and Laboratory Product etc.

E : Estimates (Source of Customs Department : Quantity of Silver metal product is 10,613 tonnes)

Table 12 Others Import Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Antimony	755	318	558	506	255	-50
Value	86	44	111	97	53	-45
2. Beryllium	1	2	1	3	2	-45
Value	2	2	1	3	3	4
3. Bismuth	18	14	26	45	41	-10
Value	10	23	41	72	60	-17
4. Cadmium	0	0	0	1	2	122
Value	0	0	0	4	0	-95
5. Chromium	31	31	32	59	55	-6
Value	28	47	57	57	56	-2
6. Cobalt	123	175	243	215	202	-6
Value	232	292	360	392	572	46
7. Germanium	0	0	0	-	-	na
Value	1	6	11	-	-	na
8. Magnesium	1,354	1,351	1,450	1,107	1,229	11
Value	126	116	120	112	206	84
9. Manganese	234	679	1,695	1,074	716	-33
Value	17	53	94	136	74	-45
10. Molybdenum	48	51	45	55	44	-21
Value	159	236	190	249	190	-24
11. Tantalum	83	68	91	111	101	-9
Value	1,229	1,177	1,450	1,555	1,482	-5
12. Titanium	104	237	200	241	278	15
Value	371	602	549	466	587	26
13. Tungsten	148	198	249	273	239	-13
Value	382	552	583	435	466	7
14. Zirconium	143	249	217	224	145	-35
Value	12	24	30	20	27	35
15. Other	0	20	42	68	46	-32
Value	2	10	8	29	32	10
Total Quantity	3,043	3,392	4,850	3,982	3,353	-16
Total Value	2,657	3,183	3,606	3,627	3,807	5

1/ : % Changes as compared with 2007

EXPORT

Table 13 Aluminium Export Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Scrap	20,623	21,298	26,311	30,076	30,655	2
Value	944	1,103	1,864	1,849	2,069	12
2. Unwrought	12,312	13,295	11,414	19,749	29,117	47
Aluminium	1,339	172	230	847	248	-71
Aluminium alloys	10,974	13,123	11,184	18,903	28,869	53
Value	902	1,111	1,136	1,670	2,559	53
3. Powders & Flakes	161	8	789	305	13	-96
Value	12	1	137	46	0	-99
4. Bars, Rods & Profiles	22,489	20,587	28,956	33,609	32,033	-5
Aluminium	14,301	15,447	24,648	30,491	29,579	-3
Aluminium alloys	8,188	5,140	4,308	3,118	2,454	-21
Value	1,746	1,829	3,097	3,330	3,045	-9
5. Wire	347	47	59	133	35	-73
Aluminium	272	0	0	0	0	0
Aluminium alloys	75	47	59	133	35	-73
Value	14	8	10	25	13	-48
6. Plates, Sheets & Strip (t > 0.2mm)	9,927	11,714	12,377	11,629	13,041	12
Aluminium	6,736	8,046	8,997	11,322	13,007	15
Aluminium alloys	3,191	3,668	3,380	307	34	-89
Value	1,023	1,173	1,421	1,277	1,469	15
7. Foil (t ≤ 0.2mm)	3,524	2,292	2,924	4,997	5,285	6
Not backed	2,611	511	907	1,681	1,037	-38
Backed	913	1,781	2,017	3,316	4,248	28
Value	544	348	494	1,234	932	-25
8. Tubes, Pipes & Fittings	2,808	3,406	3,799	3,311	3,029	-9
Tubes & Pipes	2,352	2,762	3,197	2,552	2,298	-10
Fittings	456	644	602	759	731	-4
Value	666	943	1,149	998	1,012	1
Total Quantity	72,190	72,648	86,628	103,809	113,207	9
Total Value	5,851	6,515	9,307	10,430	11,098	6

1/ : % Changes as compared with 2007

Table 14 Copper Export Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Matte & Cement	-	0	0	26	0	-99
Value	-	0	0	5	0	-100
2. Scrap	51,322	58,257	60,410	68,900 ^{E2}	76,378	11
Value	4,546	7,117	12,364	13,338	11,115	-17
3. Unwrought	4,596	20,668	54,288	58,335	9,953	-83
Copper	3,893	19,944	53,214	57,338	9,460	-84
Copper alloys	703	724	1,074	997	494	-50
Value	564	2,684	8,926	9,091	1,554	-83
4. Powders & Flakes	94	101	169	7,732	76	-99
Value	20	1,246	25	609	30	-95
5. Bars, Rods & Profiles	10,185	9,958	14,828	19,249	19,585	2
Copper	8,970	9,561	14,544	18,975	19,274	2
Copper alloys	1,216	397	284	274	311	13
Value	1,359	1,727	4,109	5,375	5,325	-1
6. Wire	889	5,345	1,215	3,702	2,804	-24
Copper	560	4,878	544	3,103	2,405	-22
Copper alloys	329	467	670	599	399	-33
Value	168	303	308	1,072	783	-27
7. Plates, Sheets & Strip (t > 0.15 mm)	6,890	6,818	11,331	12,361	9,967	-19
Copper	1,975	1,889	3,909	4,222	3,163	-25
Copper alloys	4,915 ^{E1}	4,929	7,422	8,139	6,804	-16
Value	1,005	1,066	2,875	3,242	2,857	-12
8. Foil (t ≤ 0.15 mm)	7,390	9,212	10,501	10,358	9,893	-4
Not backed	1,521	1,884	2,117	2,531	1,164	-54
Backed	5,869	7,328	8,384	7,827	8,729	12
Value	883	1,799	1,943	2,028	1,474	-27
9. Tubes, Pipes & Fittings	31,319	23,056	27,611	44,210	26,309	-40
Tubes & Pipes	25,984	18,699	22,986	40,889	24,178	-41
Fittings	5,335	4,357	4,625	3,321	2,131	-36
Value	5,551	4,800	8,596	11,595	8,439	-27
Total Quantity	112,686	133,416	180,353	224,873	154,965	-31
Total Value	14,096	20,741	39,146	46,355	31,576	-32

1/ : % Changes as compared with 2007

E1 : Estimates (Source of Customs Department : Quantity of Copper Plates, Sheets & Strips is 18,916 tonnes)

E2 : Estimates (Source of Customs Department : Quantity of Scrap is 106,897 tonnes)

Table 15 Iron and Steel Export Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Pig Iron/DRI/HBI	24,006	24,822	99,998	52,031	72,803	40
Value	545	525	634	730	1,488	104
2. Ferro-alloys	21	61	33	2,702	1,482	-45
Ferro-chromium	-	23	-	39	78	99
Ferro-manganese	10	0	0	40	191	373
Ferro-silico-manganese	-	-	-	0	0	0
Ferro-silicon	11	38	32	2,049	149	-93
Other	-	0	0	574	1,065	85
Value	1	5	2	180 ^E	48	-73
3. Scrap	154,321	172,693	245,428	298,202	361,269	21
Carbon Steel	87,721	95,802	134,364	169,968	203,021	19
Cast Iron	1,554	3,345	4,406	9,993	20,810	108
Stainless Steel	57,703	66,168	72,774	54,704	66,768	22
Other Alloy Steel	7,343	7,378	33,812	63,537	70,626	11
Other	-	-	72	-	44	-
Value	3,303	3,972	5,478	8,066	6,120	-24
4. Semi-Finished Products	72,334	39,654	18,471	132,499	143,301	8
Billet	54,909	39,245	18,101	93,222	135,239	45
Billet & Slab (t ≥ 0.25 C)	15,898	71	8	37,669	55	-
Ingot	499	236	300	1,525	767	-50
Slab	-	101	2	78	5,093	-
Other	1,028	2	61	6	2,147	37,567
Value	993	555	349	2,467	3,415	38
5. Long Products	615,732	514,821	625,388	606,421	767,621	27
Angles, Shapes & Sections	285,984	257,993	279,774	271,353	236,323	-13
Bars	54,806	40,194	83,394	114,726	244,484	113
Cold-drawn Bars	154,154	91,095	124,257	100,564	148,003	47
Wire Rods	9,345	7,588	8,654	26,309	47,723	81
Wires	111,442	117,952	129,310	93,470	91,089	-3
Value	16,348	15,331	17,134	16,796	25,615	53
6. Hot Rolled Flat Product	626,613	775,106	736,422	898,304	789,568	-12
Coil	470,561	460,417	465,745	704,176	534,275	-24
Plate & Sheet	153,904	313,812	269,711	193,144	254,012	32
Strip	2,148	877	966	984	1,281	30
Value	13,742	15,774	15,277	18,062	22,113	22

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
7. Cold Rolled Flat Product	525,762	376,732	282,145	417,016	229,301	-45
Coil	390,074	276,907	153,797	186,108	113,351	-39
Plate & Sheet	126,878	95,360	126,486	228,694	112,337	-51
Strip	8,810	4,464	1,862	2,214	3,613	63
Value	16,527	15,327	11,537	15,027	10,779	-28
8. Coated Products	141,605	85,694	160,227	238,453	46,222	-81
Chromium Plate	36	42	204	494	159	-68
Electro Galvanized	44,698	17,571	20,804	21,572	12	-100
Hot dip Galvanized	52,153	30,560	45,565	56,426	6,822	-88
Tinplate	5,668	1,792	3,830	3,245	1,406	-57
Other	9,799	11,802	36,130	41,049	8,900	-78
Zincalume/ Color Coated	29,251	23,927	53,693	115,668	28,923	-75
Value	4,043	3,968	5,212	7,543	2,140	-72
9. Pipes & Fittings	287,193	266,299	285,661	285,800	370,587	30
Fittings	68,864	64,754	72,187	77,924	77,108	-1
Seam Pipes	177,245	165,642	192,872	189,337	275,450	45
Seamless Pipes	41,085	35,902	20,602	18,540	18,030	-3
Value	12,852	15,359	17,675	18,745	23,850	27
10. Sheet Piling	8,050	22,636	25,770	36,989	28,421	-23
Stainless Steel	12	48	12	42	211	402
Other Alloy Steel	-	-	34	5	102	100
Other	8,038	22,589	25,723	36,942	28,108	-24
Value	183	527	587	964	853	-11
11. Rails and Accessories	1,171	901	703	593	1,669	182
Value	54	45	35	46	80	71
Finished Steel Products Total^{2/}	2,206,125	2,042,189	2,116,316	2,483,575	2,233,388	-10
Finished Steel Products Value^{2/}	63,748	66,330	67,456	77,182	85,429	11
Total Quantity	2,456,806	2,279,420	2,480,246	2,969,009	2,812,243	-5
Total Value	68,590	71,387	73,920	88,625	96,499	9

1/ : % Changes as compared with 2007

2/ : Excludes item 1 - 4

E : Estimates (Source of Customs Department : Value of Ferro-alloys was 405 million bahts)

Table 16 Lead Export Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Scrap	964	290	271	229	314	37
Value	84	29	39	57	77	34
2. Unwrought	912	766	2,174	1,172	4,898	318
Lead	9	100	893	495	1,764	256
Lead alloys	903	666	1,281	677	3,134	363
Value	29	15	113	101	273	170
3. Powders & Flakes	0	0	170	0	1,226	na
Value	1	0	11	0	11	na
4. Bars, Rods, Profiles & Wire	10	3	0	52	26	na
Value	2	1	0	15	9	na
5. Plates, Sheets, Strip & Foil	38	22	33	22	24	8
Value	5	4	4	3	5	98
6. Tubes, Pipes & Fittings	2	1	0	4	6	34
Value	0	0	0	1	1	120
Total Quantity	1,926	1,082	2,648	1,479	6,467	337
Total Value	121	49	167	176	376	113

1/ : % Changes as compared with 2007

Table 17 Nickel Export Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Matte & Sinters	-	1	2	0	0	0
Value	-	0	1	0	0	0
2. Scrap	1,137	1,216	994	1,056	829	-22
Value	183	236	258	406 ^{E1}	209	-5
3. Unwrought	5	7	55	0	1	232
Nickel	5	7	55	0	0	-26
Nickel alloys	0	-	-	0	1	na
Value	3	4	31	1	2	143
4. Powders & Flakes	25	46	46	41	332	701
Value	2	5	2	7	7	-5
5. Bars, Rods & Profiles	0	8	0	0	50	na
Value	0	3	0	0	5	na
6. Wire	1	2	1	9	0	-100
Value	0	1	0	1	1	-58
7. Plates, Sheets & Strip	6	2	7	0	0	-53
Value	13	3	4	0	1	107
8. Foil	1	0	0	1 ^{E2}	0	-72
Value	0	0	0	1	0	-74
9. Tubes, Pipes & Fittings	3	-	27	484	2,488	414
Value	1	-	6	37	215	487
Total Quantity	1,178	1,282	1,132	1,592	3,700	132
Total Value	202	253	301	4,107	438	-89

1/ : % Changes as compared with 2007

E1 : Estimates (Source of Customs Department : Value of Nickel scrap is 1,096 million baht)

E2 : Estimates (Source of Customs Department : Quantity of Nickel foil is 8.8 ton.)

Table 18 Tin Export Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Scrap	207	323	328	1,226	1,420	16
Value	4	11	11	286	406	42
2. Unwrought	13,571	24,927	19,913	18,898	16,756	-11
Tin	13,514	24,855	19,857	18,813	16,706	-11
Tin alloys	57	72	55	85	51	-40
Value	4,681	7,642	6,502	9,523	10,412	9
3. Powders & Flakes	30	57	73	0	20	na
Value	11	22	25	0	12	na
4. Bars, Rods, & Profiles	839	1,760	2,400	1,093	0	na
Value	307	626	816	547	0	na
5. Wire	1	21	60	98	52	-47
Value	0	7	22	40	16	-60
6. Plates, Sheets & Strip (t > 0.2mm)	2	5	26	15	7	-56
Value	0	0	2	15	4	-75
7. Foil	1	1	0	10	3	-74
Value	1	0	0	6	1	-84
8. Other	444	324	244	224	218	-3
Value	246	237	190	216	269	25
Total Quantity	15,097	27,419	23,044	21,564	18,476	-14
Total Value	5,250	8,545	7,568	10,631	11,120	5

1/ : % Changes as compared with 2007

Table 19 Zinc Export Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Scrap	2,088	1,123	3,563	5,600	4,153	-26
Value	53	29	182	126	88	-31
2. Unwrought	17,139	15,628	4,855	14,307	18,789	31
Zinc	2,819	176	2,468	6,323	11,820	87
Zinc alloys	14,321	15,453	2,386	7,984	6,969	-13
Value	767	864	704	1,726	1,162	-33
3. Dust, Powders & Flakes	1,422	1,544	1,576	1,951	4,611	136
Value	21	27	85	74	126	70
4. Bars, Rods, & Profiles	23	5	6	2	0	na
Value	1	0	0	0	0	na
5. Wire	53	22	62	56	394	605
Value	3	1	2	3	16	487
6. Plates, Sheets & Strip	8,649	12,372	4,812	1,588	2,653	67
Value	215	400	149	33	122	267
7. Foil	1	0	84	23	40	71
Value	0	0	2	2	4	57
8. Tubes, Pipes & Fittings	565	419	520	841	1,012	20
Value	74	72	40	43	53	22
Total Quantity	29,940	31,113	15,478	24,368	31,652	30
Total Value	1,133	1,394	1,165	2,009	1,570	-22

1/ : % Changes as compared with 2007

Table 20 Precious Metals Export Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Silver	1,745	1,444	2,885	4,083	1,574	-61
Metal product	209	85	192	279	305	10
Jewellery	1,536	1,359	2,693	3,804	1,269	-67
Value	20,432	21,061	22,875	28,714	29,622	3
2. Gold	101	155	51	165	190	15
Metal product	23	32	51	78	130	67
Jewellery	78	123	239 ^E	88	60	-63
Value	37,909	54,679	61,888	93,798	173,794	85
3. Platinum	-	-	-	6	5	-7
Unwrought / Powder				2	4	117
Other				4	2	-61
Value	-	-	-	713	1,126	58
4. Palladium	-	-	-	6	11	90
Unwrought / Powder				0	2	na
Other				6	9	52
Value	-	-	-	4	21	426
5. Rhodium	-	-	-	12	48	293
Unwrought / Powder				12	44	273
Other				0	4	1,067
Value	-	-	-	18	86	380
6. Other	9	16	376	2,865	131	-95
Unwrought / Powder				0	0	0
Other				2,865	131	-95
Value	657	1,816	1,538	1,897	3,399	79
Total Quantity	1,855	1,614	5,702	7,137	1,958	-73
Total Value	58,998	77,556	86,300	125,144	208,048	66

1/ : % Changes as compared with 2007

2/ : Includes Palladium, Rhodium, Iridium, Osmium and Ruthenium

3/ : Catalyst, Reports, Dishes and Laboratory Product etc.

E : Estimates (Source of Customs Department : Quantity of Gold Jewellery Products is 2,390 tonnes)

Table 21 Others Export Statistics 2004 - 2008

Unit : Metric Tonnes

Value : Million Baht

ITEM	2004	2005	2006	2007	2008	%Δ ^{1/}
1. Antimony	-	171	170	90	62	-32
Value	-	22	33	12	12	2
2. Beryllium	0	-	-	0	0	0
Value	0	-	-	0	0	0
3. Bismuth	0	-	0	48	0	-100
Value	1	-	3	1	0	-48
4. Cadmium	-	7	4	1	2	15
Value	-	1	0	0	1	300
5. Chromium	0	0	0	4	13	218
Value	0	0	0	0	0	0
6. Cobalt	-	20	0	2	15	633
Value	-	2	0	3	47	1,503
7. Germanium	0	-	-	-	-	na
Value	0	-	-	-	-	na
8. Magnesium	11	14	6	11	4	-67
Value	1	0	0	0	1	265
9. Manganese	2,900	-	1	0	0	na
Value	8	-	0	0	0	na
10. Molybdenum	1	5	0	1	2	91
Value	2	8	0	2	5	130
11. Tantalum	226	102	168	79	104	31
Value	2,233	826	1,574	795	896	13
12. Titanium	2	23	26	71	35	-50
Value	10	35	24	61	26	-57
13. Tungsten	30	60	240	255	1,090	327
Value	61	60	105	65	118	83
14. Zirconium	-	0	0	28	2,494	8,904
Value	-	0	0	1	18	2,150
15. Other	0	-	0	0	0	170
Value	0	-	1	0	0	100
Total Quantity	3,170	401	615	591	3,820	546
Total Value	2,316	954	1,742	940	1,125	20

1/ : % Changes as compared with 2007

DOMESTIC PRICE

Table 22 Metals Domestic Price Statistics 2008

Unit : Baht/Kg.

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1. Aluminium	95	106	108	110	118	120	130	119	111	96	87	100	108
2. Antimony	213	213	201	206	206	206	233	233	260	256	232	240	225
3. Brass	246	256	222	229	230	225	235	233	233	186	110	110	210
4. Copper	255	284	285	304	302	306	321	293	270	196	153	200	264
5. Gold^{1/}	931	952	967	917	908	937	999	907	895	899	849	904	922
6. Lead	101	117	108	105	96	95	90	90	87	77	69	70	92
7. Nickel	970	979	1,103	977	885	867	740	696	655	456	403	450	765
8. Tin	576	607	655	738	829	826	846	733	676	534	507	530	671
9. Zinc	91	95	92	86	94	91	87	82	82	67	62	85	85

Gold Bullion : Weight 1 Baht = 15.244 g.

1/ : Unit in Baht/g. Source : Gold Traders Association

Source : Local Market Trader

Table 23 Iron and Steel Domestic Price Statistics 2008

Unit : Baht/Kg.

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1. Scrap^{1/}	16.0	17.0	20.0	25.0	21.0	20.0	19.0	20.0	17.0	15.0	13.0	14.0	18.1
2. Round Bars SR.24 Ø 12 mm.	26.9	28.9	29.5	30.5	37.0	38.6	38.6	35.8	28.9	21.6	20.1	19.1	29.6
3. Deformed Bars SD.30 Ø 12 mm.	26.5	28.7	29.3	30.2	36.5	38.3	38.3	35.5	28.3	21.5	19.7	18.7	29.3
4. Deformed Bars SD.40 Ø 12 mm.	26.7	28.9	29.5	30.5	36.8	38.5	38.6	35.7	28.5	21.6	19.9	18.9	29.5
5. Angle (Size 40x40x4 mm.)	28.9	31.5	32.9	34.8	39.2	40.4	40.5	37.9	33.4	26.2	23.9	24.2	32.8
6. Channel (Size 75x40x40x5 mm.)	28.6	30.9	32.1	33.4	38.9	40.5	40.1	36.7	32.8	27.8	24.8	24.9	32.6
7. Wires (No. 18)	33.3	36.5	38.9	40.4	43.8	46.5	46.1	43.0	40.6	33.9	31.2	30.7	38.7
8. P.C. WIRE	39.8	40.5	42.3	45.2	48.5	49.8	52.2	53.5	53.5	52.2	50.3	49.7	48.1
9. P.C. STRAND	40.5	41.2	43.2	46.0	49.2	50.5	53.2	54.5	54.5	53.2	51.3	50.7	49.0
10. HR coil (2 mm.)	25.9	28.1	31.0	32.7	35.1	37.8	38.1	36.6	32.9	30.2	25.2	24.6	31.5
11. Stainless steel sheet (1.5 mm.)	148.0	148.0	154.0	152.0	150.0	150.0	148.0	143.1	137.3	122.6	104.9	90.2	137.3

Source: 1/ Entrepreneur

: Bureau of Trade and Economic Indicies

APPENDIX I

METALS WORLD PRICE STATISTICS

Table I-1 Aluminium World Price Statistics 1999 - 2008

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1999	1,219	1,187	1,182	1,279	1,324	1,316	1,404	1,432	1,493	1,475	1,473	1,155	1,328
2000	1,681	1,671	1,577	1,458	1,467	1,507	1,564	1,528	1,602	1,501	1,474	1,566	1,550
2001	1,616	1,605	1,510	1,497	1,539	1,467	1,417	1,377	1,345	1,283	1,328	1,345	1,444
2002	1,369	1,369	1,405	1,370	1,343	1,354	1,338	1,292	1,301	1,311	1,372	1,375	1,350
2003	1,378	1,422	1,389	1,332	1,398	1,410	1,436	1,456	1,416	1,474	1,508	1,555	1,431
2004	1,606	1,686	1,656	1,730	1,623	1,678	1,709	1,692	1,724	1,820	1,814	1,849	1,716
2005	1,834	1,882	1,982	1,894	1,743	1,731	1,778	1,867	1,840	1,928	2,050	2,247	1,898
2006	2,377	2,455	2,429	2,621	2,861	2,477	2,512	2,459	2,472	2,654	2,702	2,813	2,569
2007	2,818	2,831	2,762	2,815	2,793	2,677	2,679	2,517	2,391	2,442	2,507	2,383	2,635
2008	2,447	2,777	3,005	2,959	2,903	2,967	3,058	2,765	2,531	2,122	1,853	1,495	2,574

Source : London Metal Exchange (LME)

Table I-2 Antimony World Price Statistics 1999 - 2008

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1999	1,550	1,550	1,538	1,483	1,425	1,425	1,375	1,375	1,325	1,325	1,275	1,300	1,412
2000	1,225	1,195	1,144	1,080	1,107	1,247	1,511	1,724	1,804	1,698	1,657	1,543	1,411
2001	1,500	1,460	1,445	1,404	1,294	1,177	1,105	1,050	1,408	1,462	1,450	1,295	1,338
2002	1,500	1,450	1,450	1,450	1,450	1,450	1,640	1,990	2,305	3,275	3,275	2,645	1,990
2003	2,608	2,431	2,538	2,591	2,589	2,413	2,350	2,350	2,350	2,260	2,113	2,215	2,401
2004	2,511	2,678	2,933	2,891	2,800	2,706	2,583	3,031	3,033	3,022	3,050	2,888	2,844
2005	2,988	3,144	3,150	3,089	3,156	3,828	3,528	3,667	3,847	3,850	3,850	3,850	3,496
2006	3,890	4,200	4,983	5,682	5,523	4,886	5,234	5,450	5,359	5,360	5,485	5,500	5,129
2007	5,550	5,550	5,575	5,550	5,519	5,375	5,400	5,500	5,560	5,613	5,625	5,613	5,536
2008	5,614	6,008	5,894	6,003	6,375	6,415	6,356	6,689	6,750	6,635	5,869	4,439	6,087

Source : MB Free Market

Table I-3 Cadmium (99.99%) World Price Statistics 1999 - 2008

Unit : US\$/Pound

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1999	0.24	0.27	0.28	0.27	0.25	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.23
2000	0.21	0.21	0.21	0.21	0.20	0.23	0.21	0.20	0.20	0.20	0.20	0.20	0.21
2001	0.20	0.20	0.24	0.36	0.50	0.46	0.45	0.57	0.60	0.60	0.55	0.40	0.43
2002	0.40	0.40	0.39	0.33	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.38
2003	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.69	0.65	0.65	0.75
2004	0.62	0.60	0.60	0.60	0.61	0.65	0.67	0.73	0.75	0.75	0.75	0.75	0.67
2005	0.78	0.89	0.92	0.95	1.06	1.59	2.15	2.23	2.10	2.03	2.03	2.01	1.56
2006	1.71	1.43	1.15	1.29	1.66	1.81	1.70	1.66	1.41	1.36	1.56	1.85	1.55
2007	1.96	2.33	2.40	2.73	4.63	5.95	5.78	4.50	4.16	3.62	3.68	3.68	3.79
2008	3.38	3.34	3.36	3.45	3.32	3.16	3.03	2.55	2.55	2.50	1.58	0.74	2.75

Source : MB Free Market

Table I-4 Copper World Price Statistics 1999 - 2008

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1999	1,431	1,411	1,378	1,466	1,511	1,422	1,640	1,648	1,750	1,724	1,727	1,765	1,573
2000	1,844	1,801	1,739	1,679	1,786	1,753	1,799	1,788	1,960	1,899	1,795	1,851	1,808
2001	1,788	1,766	1,739	1,664	1,682	1,608	1,525	1,464	1,426	1,377	1,428	1,471	1,578
2002	1,504	1,562	1,605	1,590	1,595	1,647	1,589	1,479	1,478	1,483	1,582	1,595	1,559
2003	1,647	1,683	1,659	1,587	1,648	1,686	1,710	1,760	1,789	1,920	2,055	2,201	1,779
2004	2,423	2,759	3,008	2,947	2,733	2,686	2,807	2,845	2,894	3,011	3,122	3,145	2,865
2005	3,169	3,253	3,379	3,394	3,248	3,523	3,614	3,797	3,857	4,059	4,269	4,576	3,678
2006	4,734	4,982	5,102	6,386	8,044	7,196	7,710	7,694	7,601	7,499	7,028	6,199	6,681
2007	5,639	5,680	6,180	7,766	7,674	7,476	7,974	7,510	7,649	8,008	6,934	6,567	7,088
2008	7,061	7,888	8,439	8,685	8,383	8,261	8,414	7,635	6,990	4,926	3,717	3,095	6,958

Source : London Metal Exchange (LME)

Table I-5 Gold World Price Statistics 1999 - 2008

Unit : US\$/Troy Oz.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1999	287	287	286	282	277	261	256	257	267	311	293	283	279
2000	284	300	286	280	275	286	282	274	274	270	266	272	279
2001	266	262	263	261	272	270	268	273	285	283	277	276	271
2002*	282	296	294	303	315	321	313	310	319	317	319	343	311
2003	357	360	341	328	355	356	351	360	379	379	389	407	364
2004	414	405	407	404	384	393	380	401	405	420	438	442	408
2005	424	423	434	429	423	431	424	438	457	470	475	510	445
2006	549	555	557	610	674	596	635	632	597	586	627	630	604
2007	624	660	651	679	625	659	661	666	707	746	807	803	691
2008	888	924	971	910	889	890	941	840	825	813	758	820	872

Source : London Metal Exchange (LME)

: *World Gold Council

Table I-6 Lead World Price Statistics 1999 - 2008

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1999	492	514	508	519	541	496	496	503	507	497	478	479	503
2000	472	452	441	421	412	419	452	473	487	486	468	462	454
2001	478	502	498	477	467	444	462	483	465	468	486	483	476
2002	513	480	480	472	452	440	446	423	421	418	442	443	452
2003	444	475	456	437	463	468	514	496	521	587	622	692	515
2004	758	888	886	753	808	870	939	921	935	932	967	974	886
2005	952	977	1,005	985	988	986	854	887	932	1,004	1,018	1,124	976
2006	1,256	1,276	1,192	1,170	1,166	963	1,052	1,173	1,342	1,531	1,624	1,724	1,289
2007	1,660	1,782	1,914	2,001	2,102	2,426	3,084	3,112	3,227	3,720	3,314	2,589	2,578
2008	2,608	3,080	3,008	2,825	2,285	1,863	1,945	1,924	1,868	1,480	1,292	965	2,095

Source : London Metal Exchange (LME)

Table I-7 Nickel World Price Statistics 1999 - 2008

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1999	4,273	4,630	5,015	5,106	5,403	5,198	5,704	6,452	7,031	7,325	7,953	8,087	6,015
2000	8,314	9,658	10,284	9,731	10,134	8,415	8,164	8,007	8,642	7,683	7,344	7,319	8,641
2001	6,999	6,528	6,138	6,333	7,065	6,645	5,940	5,525	5,030	4,828	5,082	5,267	5,948
2002	6,043	6,029	6,538	6,958	6,761	7,120	7,143	6,717	6,640	6,804	7,314	7,193	6,772
2003	8,026	8,623	8,379	7,910	8,331	8,875	8,797	9,351	9,965	11,047	12,087	14,163	9,630
2004	15,327	15,145	13,715	12,848	11,118	13,534	15,023	13,680	13,271	14,404	14,045	13,769	13,823
2005	14,501	15,345	16,185	16,136	16,920	16,154	14,571	14,887	14,223	12,397	12,111	13,426	14,738
2006	14,550	14,975	14,893	17,932	21,065	20,747	26,569	30,728	30,117	32,693	32,100	33,540	24,159
2007	35,567	41,273	46,325	50,267	52,113	41,719	33,426	27,529	28,919	31,055	30,561	25,897	37,054
2008	27,669	27,957	31,225	28,763	25,735	22,549	20,162	18,928	17,672	12,140	10,702	9,632	21,095

Source : London Metal Exchange (LME)

Table I-8 Platinum World Price Statistics 1999 - 2008

Unit : US\$/Troy Oz.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1999	355	365	370	358	356	356	349	349	372	423	435	440	377
2000	473	517	481	497	546	560	560	577	591	580	593	610	549
2001	620	600	584	595	610	579	525	457	459	434	436	460	530
2002*	472	471	512	541	534	556	526	546	556	581	588	596	540
2003	630	682	677	625	650	662	682	693	705	732	760	808	692
2004	851	846	899	881	810	807	809	847	848	843	854	849	845
2005	859	865	868	865	867	880	874	899	915	931	963	979	897
2006	1,029	1,041	1,042	1,102	1,264	1,189	1,229	1,234	1,184	1,084	1,183	1,117	1,141
2007	1,145	1,200	1,224	1,272	1,309	1,289	1,298	1,281	1,288	1,393	1,451	1,475	1,302
2008	1,582	1,995	2,058	1,990	2,055	2,041	1,916	1,492	1,225	914	842	845	1,580

Source : London Metal Exchange (LME)

: *Kitco Inc.

Table I-9 Palladium World Price Statistics 1999 - 2008

Unit : US\$/Troy Oz.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1999	322	352	353	361	330	321	332	340	362	387	401	423	357
2000	441	604	730	570	572	654	704	760	728	740	793	917	684
2001	1,042	972	779	698	656	614	525	455	442	335	336	399	604
2002*	410	374	375	370	357	335	323	325	328	317	286	243	337
2003	255	253	226	163	167	180	173	182	211	202	197	198	201
2004	216	235	268	297	246	229	221	216	211	218	214	192	230
2005	186	182	197	199	190	187	184	187	189	208	246	266	202
2006	274	289	310	353	369	316	318	329	322	313	325	328	320
2007	337	342	352	366	370	371	369	354	334	362	371	352	357
2008	374	464	492	447	437	450	428	316	250	191	207	177	353

Source : London Metal Exchange (LME)

: *Kitco Inc.

Table I-10 Silver World Price Statistics 1999 - 2008

Unit : US\$/Troy Oz.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1999	5.15	5.52	5.19	5.07	5.28	5.00	5.20	5.30	5.30	5.40	5.20	5.10	5.23
2000	5.18	5.06	5.06	5.00	5.00	4.99	4.97	4.85	4.89	4.83	4.68	4.64	4.93
2001	4.66	4.55	4.40	4.37	4.43	4.36	4.26	4.20	4.36	4.40	4.18	4.34	4.38
2002*	4.52	4.42	4.53	4.57	4.71	4.89	4.92	4.54	4.55	4.40	4.51	4.67	4.60
2003	4.86	4.68	4.55	4.54	4.75	4.56	4.86	5.03	5.21	5.04	5.21	5.65	4.91
2004	6.37	6.48	7.29	7.09	5.88	5.88	6.08	6.71	6.42	7.15	7.51	7.12	6.67
2005	6.66	7.07	7.28	7.16	7.05	7.34	7.04	7.03	7.19	7.70	7.86	8.69	7.34
2006	9.18	9.52	10.38	12.64	13.37	10.77	11.21	12.25	11.60	11.62	12.98	13.00	11.54
2007	12.24	13.96	13.16	13.73	13.17	13.16	12.93	12.37	12.89	13.72	14.68	14.31	13.36
2008	15.96	17.57	19.51	17.50	17.05	16.97	18.03	14.69	12.37	10.44	9.87	10.29	15.02

Source : London Metal Exchange (LME)

: *Kitco Inc.

Table I-11 Steel World Price Statistics 2008

Unit : US\$/Metric Ton

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
<u>US</u>													
Pig iron	393	439	488	620	690	813	921	875	790	790	661	270	646
Scrap (HMS 1&2)	374	382	826	538	622	639	637	537	366	218	199	223	463
Rebars	625	663	670	808	845	892	954	1,056	1,028	921	721	676	822
Wire rods	650	690	722	826	920	992	1,055	1,100	1,086	1,030	982	837	908
CR coil	718	788	866	1,070	1,169	1,158	1,160	1,155	1,084	1,020	903	685	981
HR coil	628	708	786	975	1,089	1,082	1,080	1,075	1,004	905	798	610	895
Galvanized coil	863	918	996	1,138	1,275	1,296	1,303	1,292	1,208	1,139	1,070	764	1,105
<u>China</u>													
Billet	510	510	510	510	626	1,057	1,114	1,150	942	860	636	609	753
Rebars	669	715	715	715	793	1,085	1,165	1,029	924	793	646	656	825
Wire rods	668	710	711	710	786	1,043	1,065	1,023	1,099	1,140	776	665	866
CR coil	681	846	918	996	1,000	1,000	1,000	1,000	1,000	1,000	1,000	881	944
HR coil	684	693	831	892	968	1,018	1,029	1,008	855	715	543	510	812
Galvanized sheet	823	866	998	1,050	1,096	1,165	1,166	1,100	1,015	865	645	603	949
<u>CIS*</u>													
Pig iron	413	470	514	572	705	980	960	960	810	498	313	275	623
Slab	553	587	676	790	865	945	994	1,085	1,085	883	724	450	803
Billet	599	660	767	883	974	1,156	1,184	982	697	454	310	358	752
Rebars	634	715	817	940	1,057	1,243	1,208	1,185	828	549	423	435	836
Wire rods	585	675	813	934	1,060	1,237	1,255	1,185	828	549	423	435	832
CR coil	665	706	888	1,080	1,088	1,110	1,124	1,168	1,168	1,168	1,168	1,168	1,042
HR coil	590	665	812	973	975	1,036	1,053	1,130	1,130	920	651	475	868
<u>EU</u>													
Scrap (HMS 1&2)	398	398	476	564	633	647	632	503	351	223	200	230	438
Rebars	721	821	897	1,000	1,128	1,333	1,321	1,209	969	698	518	569	932
Wire rods	685	802	893	1,020	1,137	1,328	1,311	1,188	993	698	518	569	929
CR coil	816	957	1,033	1,183	1,186	1,286	1,386	1,306	1,177	1,015	936	906	1,099
HR coil	712	885	1,027	1,084	1,105	1,194	1,284	1,220	1,117	942	854	803	1,019
Galvanized sheet	875	1,041	1,193	1,215	1,211	1,330	1,402	1,345	1,252	1,118	1,067	1,010	1,172
<u>Stainless Steel</u>													
CR Coil 2 mm. (304)													
ASIA	3,721	3,800	4,060	4,275	4,200	3,990	3,950	3,950	3,950	3,950	3,950	3,050	3,904
EU	4,605	4,010	4,010	4,010	4,010	4,010	4,010	4,010	4,010	4,010	4,010	4,010	4,060

Source : Metal Bulletin

* : Commonwealth of Independent States

Table I-12 Tin World Price Statistics 1999 - 2008

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1999	5,109	5,269	5,360	5,393	5,649	5,266	5,216	5,230	5,343	5,431	5,842	5,721	5,402
2000	5,928	5,646	5,458	5,384	5,451	5,457	5,341	5,301	5,474	5,282	5,270	5,234	5,436
2001	5,170	5,122	5,046	4,949	4,945	4,828	4,351	3,896	3,695	3,751	4,042	4,018	4,484
2002	3,859	3,728	3,840	4,021	4,147	4,283	4,328	3,831	3,954	4,239	4,227	4,234	4,058
2003	4,433	4,568	4,601	4,563	4,734	4,692	4,736	4,819	4,909	5,233	5,359	6,054	4,892
2004	6,481	6,668	7,616	8,944	9,448	9,189	9,032	9,013	9,010	9,036	9,062	8,549	8,504
2005	7,729	8,083	8,426	8,134	8,119	7,615	7,165	7,183	6,778	6,420	6,154	6,710	7,376
2006	7,046	7,819	7,932	8,846	8,830	7,889	8,410	8,492	9,031	9,759	10,070	11,615	8,812
2007	11,391	12,992	13,893	14,053	14,145	14,107	14,747	15,160	15,023	16,071	16,703	16,274	14,547
2008	16,338	17,339	19,804	21,659	24,062	22,229	23,139	20,071	18,369	14,402	13,644	11,372	18,536

Source : London Metal Exchange (LME)

Table I-13 Zinc World Price Statistics 1999 - 2008

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1999	933	1,017	1,030	1,019	1,041	1,000	1,072	1,131	1,123	1,148	1,147	1,183	1,070
2000	1,179	1,059	1,116	1,128	1,157	1,118	1,136	1,169	1,224	1,096	1,059	1,060	1,125
2001	1,033	1,021	1,005	970	938	895	852	828	799	762	773	755	886
2002	793	771	819	808	769	767	794	747	756	754	765	797	778
2003	781	785	791	754	775	790	827	817	818	898	914	977	827
2004	1,017	1,087	1,105	1,032	1,028	1,021	988	975	975	1,064	1,095	1,180	1,047
2005	1,246	1,326	1,377	1,300	1,243	1,275	1,194	1,298	1,397	1,488	1,611	1,821	1,381
2006	2,090	2,219	2,416	3,084	3,565	3,225	3,339	3,346	3,402	3,822	4,381	4,258	3,262
2007	3,735	3,302	3,271	3,557	3,821	3,603	3,547	3,261	2,881	2,975	2,532	2,349	3,236
2008	2,340	2,438	2,533	2,264	2,182	1,895	1,853	1,723	1,736	1,302	1,153	1,101	1,877

Source : London Metal Exchange (LME)