

Statistics Report

THAILAND
METAL STATISTICS YEAR 2004

Bureau of Primary Industries
Department of Primary Industries and Mines

Statistics Report

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METAL STATISTICS YEAR 2004

Slila Yanyongsawat
Tawatchai Yongnate

Bureau of Primary Industries
Department of Primary Industries and Mines

Director General- Department of Primary Industries and Mines
Mr. Anusorn Nuangpolmak

Director - Bureau of Primary Industries
Mr. Surapong Chiengtong

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Department of Primary Industries and Mines,
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PREFACE

The publication of metal statistics entitled "Thailand Metal Statistics Year 2004" 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.

(Surapong Chiengtong)
Director

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Editors

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OVERALL

Table 1 Overall Metal Production Statistics 2002-2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	Quantities			Value ^E		
	2002	2003	2004	2002	2003	2004
1. Antimony	0	12	2	0	1	0
2. Lead	42,900	45,300	57,500	800	930	2,010
3. Steel^{1/}	9,460	10,236	12,185	137,200	186,500	267,800
4. Tantalum Powder	102	168	317	1,450	2,190	4,120
5. Tin	18,600	15,400	20,800	3,150	3,100	6,780
6. Zinc	104,800	116,400	115,500	3,440	3,850	4,620
7. Gold and Silver	23.0	16.8	15.2	2,235	2,184	2,342
- Gold	4.9	4.3	4.5	2,123	2,077	2,250
- Silver	18.0	12.5	10.7	112	107	92
8. Copper	-	-	5,800	-	-	725

1/ : Unit in 1,000 Tonnes

E : Estimate

PRODUCTION

Table 2 Nonferrous Production Statistics 2000 - 2004

Unit : Metric Tonnes

ITEM	2000	2001	2002	2003	2004	%Δ ^{1/}
1. Antimony	16	12	0	12	2	-83
2. Lead	27,200	30,000	42,900	45,300	57,500	27
3. Tantalum Powder	210	150	102	168	317	89
4. Tin	17,100	22,900	18,600	15,400	20,800	35
5. Zinc	101,100	104,300	104,800	116,400	115,500	-1
6. Gold and Silver	-	1.5	23.0	16.8	15.2	-9
- Gold		0.3	4.9	4.3	4.5	4
- Silver		1.2	18.0	12.5	10.7	-14
7. Copper	-	-	-	-	5,800	-

1/ : % Changes as compared with 2003

Table 3 Steel Production Statistics 2000 - 2004

Unit : 1,000 Tonnes

ITEM	2000	2001	2002	2003	2004	%Δ ^{1/}
1. Semi-finished Products	1,648	1,711	2,008	2,472	4,144	68
2. Long Products^{E1}	2,210	2,500	3,343	3,534	4,907	39
3. Flat Products	3,660	3,358	4,617	5,246	5,783	10
Hot-Rolled Coils	2,243	1,895	2,952	3,321	3,840	16
Hot-Rolled Plates						
Cold-Rolled Coils	1,417	1,464	1,665	1,925	1,943	1
4. Others Products^{2/}	25	46	46	24	17	-30
5. Coated Steel	878	825	944	997	1,042	4
Tinplates	208	212	244	274	335	22
Tin Free Steel	100	104	109	137	137	1
Galvanized Sheets	385	326	444	468	440	-6
Zincalume, Colorbond, ShutterEx and Paint	186	183	147	119	129	9
6. Pipes & Tubes^{E2}	490	510	511	435	436	0
Steel Products Total^{3/}	7,263	7,240	9,461	10,236	12,185	19

1/ : % Changes as compared with 2003

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 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Scrap	11,485	13,126	17,602	22,364	31,177	39
<i>Value</i>	569	699	890	1,158	1,768	53
2. Unwrought	236,949	234,692	259,324	330,317	392,748	19
Aluminium	113,133	125,858	124,554	144,159	184,760 ^{E2}	28
Aluminium alloys	123,816 ^{E1}	108,834	134,769	186,158	207,988	12
<i>Value</i>	14,280	17,122	16,343	20,128	28,092	40
3. Powders & Flakes	581	580	671	864	1,021	18
<i>Value</i>	59	64	62	78	75	-3
4. Bars, Rods & Profiles	3,911	3,416	2,615	4,278	4,141	-3
Aluminium	1,503	1,609	432	641	650	2
Aluminium alloys	2,408	1,807	2,184	3,638	3,490	-4
<i>Value</i>	499	431	359	575	680	18
5. Wire	2,360	2,528	2,741	2,634	3,258	24
Aluminium	270	231	205	308	225	-27
Aluminium alloys	2,090	2,297	2,536	2,326	3,033	30
<i>Value</i>	367	356	314	311	366	18
6. Plates, Sheets & Strip (t>0.2mm)	56,680	56,166	61,025	70,755	80,949	14
Aluminium	16,392	7,124	7,612	7,930	9,670	22
Aluminium alloys	40,289	49,042	53,413	62,825	71,278	13
<i>Value</i>	6,169	6,689	6,805	7,804	9,354	20
7. Foil (t<=0.2mm)	17,950	20,407	21,686	26,571	33,275	25
Not backed	15,245	16,457	17,574	22,278	28,054	26
Backed	2,706	3,950	4,112	4,293	5,221	22
<i>Value</i>	3,387	3,683	3,693	4,290	5,493	28
8. Tubes, Pipes & Fittings	2,140	1,866	2,160	2,391	3,091	29
Tubes & Pipes	2,024	1,746	1,843	2,191	2,839	30
Fittings	115	120	317	200	251	26
<i>Value</i>	599	786	742	890	1,102	24
Total Quantity	332,057	332,781	367,824	460,174	549,659	19
Total Value	25,930	29,830	29,209	35,234	46,929	33

1/ : % Changes as compared with 2003

P : Preliminary

E1 : Estimates (Source of Customs Department : Quantity of Aluminium alloys unwrought is 242,964 tonnes)

E2 : Estimates (Source of Customs Department : Quantity of Aluminium unwrought is 1,182,453 tonnes)

Table 5 Copper Import Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Matte & Cement	0	15	176	1	1	6
Value	0	3	3	0	0	11
2. Scrap	4,358	4,210	4,245	4,757	6,560	38
Value	247	287	208	360	608	69
3. Unwrought	159,067	175,331	195,465	217,016	282,313	30
Copper	150,864	166,795	186,633	205,187	229,840	12
Copper alloys	8,203	8,535	8,832	11,829	52,473	344
Value	11,990	13,693	14,153	16,243	27,838	71
4. Powders & Flakes	570	450	559	587	721	23
Value	79	80	101	118	167	41
5. Bars, Rods & Profiles	3,759	4,074	6,202	7,705	7,733	0
Copper	669	407	671	934	946	1
Copper alloys	3,089	3,666	5,530	6,771	6,786	0
Value	488	513	692	888	1,255	41
6. Wire	28,799	26,680	36,362	45,421	52,436	15
Copper	25,379	23,140	31,792	41,128	49,166	20
Copper alloys	3,420	3,540	4,570	4,293	3,270	-24
Value	2,809	2,632	2,837	4,171	6,838	64
7. Plates, Sheets & Strip (t>0.15 mm)	19,875	18,170	26,365	28,732	34,939	22
Copper	5,591	5,828	8,058	8,594	11,217	31
Copper alloys	14,284	12,342	18,308	20,139	23,722	18
Value	3,470	3,968	3,956	4,585	7,027	53
8. Foil (t<=0.15 mm)	14,110	12,102	14,154	14,517	15,844	9
Not backed	6,272	6,111	5,870	6,725	7,519	12
Backed	7,838	5,991	8,284	7,791	8,325	7
Value	3,331	2,826	2,881	3,524	4,159	18
9. Tubes, Pipes & Fittings	8,453	10,585	9,619	11,578	13,778	19
Tubes & Pipes	8,139	10,190	9,365	11,172	13,268	19
Fittings	314	396	254	406	510	26
Value	1,403	1,863	1,649	1,953	2,698	38
Total Quantity	238,992	251,616	293,148	330,314	414,323	25
Total Value	23,817	25,865	26,481	31,844	50,590	59

1/ : % Changes as compared with 2003

P : Preliminary

Table 6 Iron and Steel Import Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Pig Iron/DRI/HBI	312,764	113,478	203,968	369,589	918,151	148
<i>Value</i>	<i>1,910</i>	<i>987</i>	<i>1,586</i>	<i>3,216</i>	<i>8,204</i>	155
2. Ferro-alloys	54,617	48,185	54,457	72,017	84,389	17
Ferro-chromium	7,188	4,218	5,471	8,628	11,031	28
Ferro-manganese	7,211	6,593	7,221	8,070	12,209	51
Ferro-silicon	17,506	17,291	18,223	26,423	26,240	-1
Ferro-silicon-manganese	20,859	19,040	22,047	27,511	32,602	19
Other	1,853	1,043	1,495	1,385	2,307	67
<i>Value</i>	<i>1,281</i>	<i>1,231</i>	<i>1,326</i>	<i>1,834</i>	<i>3,494</i>	91
3. Scrap	741,332	696,512	977,555	1,279,889	1,849,787	45
Carbon Steel	706,587	636,004	945,155	1,220,880	1,696,333	39
Cast Iron	144	65	197	13,463	78,531	483
Stainless Steel	7,660	343	4,038	3,970	4,650	17
Other Alloy Steel	25,464	52,280	28,090	41,562	70,009	68
Other	1,476	7,821	75	15	263	1,656
<i>Value</i>	<i>4,642</i>	<i>4,675</i>	<i>6,697</i>	<i>9,926</i>	<i>21,383</i>	115
4. Semi-Finished Products	2,736,852	2,791,793	5,014,269	4,166,099	5,012,311	20
Billet	602,584	1,044,638	1,759,849	1,619,441	2,151,221	33
Billet & Slab (>= 0.25 C)	110,006	180,475	250,427	313,445	470,573	50
Ingot	139	255	719	2,009	732	-64
Slab	1,818,973	1,492,175	2,939,626	2,173,120	2,317,763	7
Other	205,150	74,250	63,649	58,083	72,022	24
<i>Value</i>	<i>22,137</i>	<i>22,476</i>	<i>41,979</i>	<i>46,177</i>	<i>79,227</i>	72
5. Long Products	625,922	623,088	822,073	843,077	930,379	10
Angles, Shapes & Sections	58,719	35,110	14,027	20,262	12,991	-36
Bars	171,300	183,006	239,440	268,056	334,562	25
Cold-drawn Bars	21,610	21,048	21,152	39,203	43,618	11
Wire Rods	323,388	329,709	473,352	443,191	448,759	1
Wires	50,905	54,215	74,101	72,364	90,450	25
<i>Value</i>	<i>16,009</i>	<i>16,703</i>	<i>18,528</i>	<i>20,353</i>	<i>27,549</i>	35
6. Hot Rolled Flat Product	2,074,998	2,372,782	2,426,063	2,990,162	2,718,985	-9
Coil	1,929,829	2,176,596	2,281,682	2,565,333	2,466,459	-4
Plate & Sheet	138,170	189,975	138,958	418,366	210,669	-50
Strip	7,000	6,212	5,422	6,463	41,856	548
<i>Value</i>	<i>32,267</i>	<i>32,991</i>	<i>34,386</i>	<i>45,038</i>	<i>60,749</i>	35

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
7. Cold Rolled Flat Product	667,269	716,117	586,447	666,749	738,613	11
Coil	469,419	448,546	323,506	463,986	521,280	12
Plate & Sheet	159,831	233,397	224,822	165,722	168,302	2
Strip	38,019	34,174	38,119	37,041	49,032	32
Value	17,253	18,056	15,216	18,828	24,553	30
8. Coated Products	542,437	556,119	885,420	895,727	1,086,426	21
Chromium Plate	8,058	14,385	39,916	30,752	33,492	9
Electro Galvanized	135,725	129,088	145,435	131,125	131,444	0
Hot dip Galvanized	256,585	302,374	360,630	462,214	555,110	20
Tinplate	98,263	62,592	111,640	84,085	99,193	18
Other	43,806	47,679	23,887	55,054	132,604	141
Zincalume/ Color Coated		-	203,911	132,497	134,583	2
Value	14,146	14,163	18,025	21,529	31,689	47
9. Pipes & Fittings	123,427	146,034	162,497	232,664	329,144	41
Fittings	10,911	10,365	12,376	15,444	17,132	11
Seam Pipes	54,342	62,376	50,478	55,786	104,856	88
Seamless Pipes	58,175	73,293	99,644	161,434	207,157 ^E	28
Value	6,575	7,921	7,976	11,305	18,301	62
10. Sheet Piling	4,667	1,339	2,104	1,191	714	-40
Stainless Steel	0	0	-	0	-	-
Other Alloy Steel	703	-	-	0	-	-
Other	3,964	1,339	2,104	1,191	714	-40
Value	68	28	29	19	14	-25
11. Rails and Accessories	42,101	29,387	37,248	24,679	10,909	-56
Value	1,154	927	751	434	266	-39
Finished Steel Products Total^{2/}	4,080,822	4,444,866	4,921,853	5,654,248	5,815,170	3
Finished Steel Products Value^{2/}	87,471	90,789	94,912	117,505	163,121	39
Total Quantity	7,926,386	8,094,834	11,172,101	11,541,842	13,679,807	19
Total Value	117,442	120,158	146,501	178,659	275,429	54

1/ : % Changes as compared with 2003

2/ : Excludes item 1 - 4

P : Preliminary

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 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Scrap	372	142	41	45	29	-34
<i>Value</i>	<i>6</i>	<i>3</i>	<i>0</i>	<i>1</i>	<i>3</i>	413
2. Unwrought	79,176	57,466	68,797	84,598	81,244	-4
Lead	34,674	41,513	59,918	76,951	75,086	-2
Lead alloys	44,502	15,953	8,879	7,647	6,159	-19
<i>Value</i>	<i>1,342</i>	<i>1,306</i>	<i>1,465</i>	<i>1,892</i>	<i>3,194</i>	69
3. Powders & Flakes	5	6	3	0	7	3,360
<i>Value</i>	<i>4</i>	<i>3</i>	<i>1</i>	<i>0</i>	<i>7</i>	3,584
4. Bars, Rods, Profiles & Wire	642	590	634	408	483	18
<i>Value</i>	<i>131</i>	<i>137</i>	<i>133</i>	<i>83</i>	<i>167</i>	103
5. Plates, Sheets, Strip & Foil	95	137	110	69	114	65
<i>Value</i>	<i>28</i>	<i>28</i>	<i>23</i>	<i>13</i>	<i>25</i>	85
6. Tubes, Pipes & Fittings	8	1	5	12	6	-45
<i>Value</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>1</i>	23
Total Quantity	80,299	58,341	69,590	85,132	81,884	-4
Total Value	1,513	1,477	1,623	1,990	3,398	71

1/ : % Changes as compared with 2003

P : Preliminary

Table 8 Nickel Import Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Matte & Sinters	-	-	0	1	0	-92
<i>Value</i>	-	-	0	0	0	-86
2. Scrap	31	39	11	60	64	7
<i>Value</i>	11	11	4	21	39	80
3. Unwrought	1,872	1,411	1,721	1,903	2,478	30
Nickel	1,720	1,359	1,693	1,861	2,425	30
Nickel alloys	152	52	28	41	53	28
<i>Value</i>	714	459	519	718	1,437	100
4. Powders & Flakes	54	64	87	79	125	58
<i>Value</i>	39	51	56	56	101	81
5. Bars, Rods & Profiles	44	126	8	9	22	149
<i>Value</i>	19	19	10	12	22	80
6. Wire	135	236	156	259	162	-37
<i>Value</i>	63	111	74	121	101	-16
7. Plates, Sheets & Strip	88	45	284	113	101	-11
<i>Value</i>	48	27	35	29	49	70
8. Foil	17	8	1	1	0	-61
<i>Value</i>	3	3	9	2	1	-64
9. Tubes, Pipes & Fittings	16	14	9	21	62	193
<i>Value</i>	26	58	11	32	33	3
Total Quantity	2,257	1,943	2,278	2,445	3,013	23
Total Value	924	739	718	991	1,782	80

1/ : % Changes as compared with 2003

P : Preliminary

Table 9 Tin Import Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Scrap	-	-	-	-	10	-
<i>Value</i>	-	-	-	-	1	-
2. Unwrought	439	199	544	1,933	9,950	415
Tin	117	20	182	1,414	9,684	585
Tin alloys	322	179	362	518	266	-49
<i>Value</i>	90	41	125	444	3,393	663
3. Powders & Flakes	4	5	3	6	2	-68
<i>Value</i>	1	2	1	2	1	-50
4. Bars, Rods, & Profiles	56	-	91	130	215	65
<i>Value</i>	13	-	14	63	144	129
5. Wire	157	147	206	147	132	-10
<i>Value</i>	12	13	22	18	12	-35
6. Plates, Sheets & Strip (t>0.2mm)	28	188	26	8	17	110
<i>Value</i>	3	9	4	4	11	144
7. Foil	0	71	6	1	1	132
<i>Value</i>	1	4	1	1	0	-60
8. Tubes, Pipes & Fittings	6	-	-	-	-	-
<i>Value</i>	8	-	-	-	-	-
9. Other	45	19	7	15	37	150
<i>Value</i>	25	9	8	16	40	148
Total Quantity	736	629	885	2,240	10,365	363
Total Value	152	78	175	550	3,603	555

1/ : % Changes as compared with 2003

P : Preliminary

Table 10 Zinc Import Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Scrap	79	4	-	-	58	-
<i>Value</i>	2	0	-	-	1	-
2. Unwrought	23,832	24,049	35,980	34,029	42,702	25
Zinc	15,304	15,698	24,477	20,944	31,577	51
Zinc alloys	8,528	8,351	11,503	13,085	11,125	-15
<i>Value</i>	1,206	1,131	1,285	1,220	2,004	64
3. Dust, Powders & Flakes	736	894	949	1,566	1,678	7
<i>Value</i>	64	67	61	91	112	22
4. Bars, Rods, & Profiles	63	132	232	170	221	29
<i>Value</i>	5	9	15	18	76	337
5. Wire	730	510	579	741	854	15
<i>Value</i>	61	43	41	54	67	23
6. Plates, Sheets & Strip	34	54	120	130	666	414
<i>Value</i>	8	8	18	17	58	249
7. Foil	-	-	3	0	3	20525
<i>Value</i>	-	-	1	0	2	3901
8. Tubes, Pipes & Fittings	9	11	3	12	7	-39
<i>Value</i>	1	1	1	1	2	79
Total Quantity	25,482	25,654	37,867	36,648	46,189	26
Total Value	1,347	1,259	1,422	1,401	2,321	66

1/ : % Changes as compared with 2003

P : Preliminary

Table 11 Precious Metals Import Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Silver	2,163	1,015	926	1,752	10,714	512
Metal product	1,912	852	896	1,520	10,613	598
Jewellery	252	164	30	232	100	-57
Value	3,952	4,800	5,069	8,717	12,937	48
2. Gold	1,256	297	147	158	156	-1
Metal product	1,216	283	137	145	142	-2
Jewellery	40	14	11	12	14	15
Value	25,342	40,000	38,120	34,320	51,320	50
3. Platinum - Group^{2/}	30	20	5	8	25	213
Metal product	16	7	1	1	1	-22
Jewellery	14	13	3	7	16	134
Others ^{3/}	1	0	1	0	9	3,022
Value	1,952	1,146	900	1,043	1,200	15
Total Quantity	3,450	1,332	1,078	1,918	10,896	468
Total Value	31,246	45,946	44,089	44,080	65,457	48

1/ : % Changes as compared with 2003

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

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

P : Preliminary

Table 12 Others Import Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Antimony	857	443	370	501	755	69
<i>Value</i>	39	20	20	49	86	188
2. Beryllium	23	0	6	1	1	4
<i>Value</i>	2	1	3	1	2	12
3. Bismuth	8	11	14	13	18	32
<i>Value</i>	4	6	6	7	10	47
4. Cadmium	0	0	0	0	0	-17
<i>Value</i>	0	0	0	1	0	-78
5. Chromium	11	19	21	23	31	40
<i>Value</i>	6	12	23	16	28	56
6. Cobalt	204	100	83	118	123	7
<i>Value</i>	283	121	68	111	232	178
7. Germanium	-	-	0	0	0	40
<i>Value</i>	-	-	0	1	1	8
8. Magnesium	572	521	786	941	1,354	53
Unwrought	480	431	638	696	938	38
Scrap	28	42	118	169	372	172
Other	64	49	30	76	44	-107
<i>Value</i>	55	46	65	78	126	75
9. Manganese	150	190	185	216	234	10
<i>Value</i>	12	18	13	16	17	7
10. Molybdenum	12	17	14	40	48	56
Powders	2	3	2	2	2	14
Wire	5	6	5	5	9	58
Other	5	8	7	33	37	62
<i>Value</i>	33	64	69	184	159	-36
11. Tantalum	29	23	27	41	83	156
<i>Value</i>	597	674	634	826	1229	64
12. Titanium	109	129	190	110	104	-3
<i>Value</i>	529	688	301	182	371	63
13. Tungsten	230	80	97	120	148	29
Powders	8	33	41	50	63	31
Wire	14	22	25	23	28	23
Other	208	26	32	47	57	30
<i>Value</i>	142	166	195	280	382	52

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
14. Vanadium	0	0	0	0	0	-
<i>Value</i>	0	0	0	0	0	-35
15. Zirconium	31	100	169	89	143	32
<i>Value</i>	5	8	15	10	12	11
16. Other	0	5	5	0	0	-2
<i>Value</i>	0	7	6	2	2	16
Total Quantity	2,236	1,638	1,967	2,214	3,043	42
Total Value	1,710	1,831	1,417	1,764	2,657	63

1/ : % Changes as compared with 2003

P : Preliminary

EXPORT

Table 13 Aluminium Export Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Scrap	11,503^{E1}	13,389	15,321	17,489	20,623	18
Value	543	658	708	735	944	28
2. Unwrought	6,837	5,139	9,535	6,905	12,312	78
Aluminium	139	168	140	657	1,339	104
Aluminium alloys	6,698 ^{E2}	4,971	9,395	6,249	10,974	76
Value	438	333	586	452	902	100
3. Powders & Flakes	20	4	12	143	161	13
Value	1	1	2	10	12	19
4. Bars, Rods & Profiles	10,509	13,124	13,949	17,052	22,489	32
Aluminium	5,581	5,026	4,309	10,558	14,301	35
Aluminium alloys	4,928	8,098	9,640	6,494	8,188	26
Value	795	1,085	1,020	1,224	1,746	43
5. Wire	72	494	167	149	347	132
Aluminium	19	357	121	108	272	152
Aluminium alloys	52	138	46	41	75	81
Value	9	53	11	11	14	24
6. Plates, Sheets & Strip (t>0.2mm)	7,604	4,642	3,871	7,610	9,927	30
Aluminium	4,853	3,723	3,542	6,686	6,736	1
Aluminium alloys	2,751	919	329	925	3,191	245
Value	1,198	551	372	664	1,023	54
7. Foil (t<=0.2mm)	1,068	1,354	2,321	2,322	3,524	52
Not backed	739	1,041	2,022	1,924	2,611	36
Backed	329	313	299	398	913	130
Value	177	282	341	346	544	57
8. Tubes, Pipes & Fittings	849	1,190	1,764	2,325	2,808	21
Tubes & Pipes	693	1,030	1,495	1,883	2,352	25
Fittings	156	159	269	442	456	3
Value	179	327	458	530	666	26
Total Quantity	38,461	39,336	46,941	53,996	72,190	34
Total Value	3,340	3,289	3,499	3,973	5,851	47

1/ : % Changes as compared with 2003

P : Preliminary

E1 : Estimates (Source of Customs Department : Quantity of Aluminum Scrap is 70,697 tonnes)

E2 : Estimates (Source of Customs Department : Quantity of Aluminum alloy Unwrought is 160,854 tonnes)

Table 14 Copper Export Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Matte & Cement	39	37	-	-	-	-
Value	2	3	-	-	-	-
2. Scrap	18,446	26,942	22,449	54,920	51,322	-7
Value	1,034	1,121	1,251	2,181	4,546	108
3. Unwrought	2,164	394	181	659	4,596	597
Copper	0	5	13	18	3,893	21,972
Copper alloys	2,164	389	168	641	703	10
Value	116	29	20	52	564	976
4. Powders & Flakes	181	35	50	60	94	58
Value	13	9	11	14	20	41
5. Bars, Rods & Profiles	8,880	10,806	9,812	7,886	10,185	29
Copper	8,526	10,420	9,099	7,046	8,970	27
Copper alloys	355	387	712	840	1,216	45
Value	892	1,163	907	751	1,359	81
6. Wire	5,252	2,243	571	613	889	45
Copper	5,054	1,797	147	324	560	73
Copper alloys	198	446	424	289	329	14
Value	693	273	163	168	168	0
7. Plates, Sheets & Strip (t>0.15 mm)	1,467	898	1,812	5,127	6,890	34
Copper	436	380	1,034	1,418	1,975	39
Copper alloys	1,032	519	779	3,709 ^{E1}	4,915 ^{E2}	33
Value	209	105	141	474	1,005	112
8. Foil (t<0.15 mm)	9,005	6,944	7,862	6,762	7,390	9
Not backed	1,945	1,736	1,443	1,251	1,521	22
Backed	7,061	5,208	6,420	5,511	5,869	6
Value	2,261	1,117	983	834	883	6
9. Tubes, Pipes & Fittings	19,688	21,779	25,189	27,596	31,319	13
Tubes & Pipes	12,844	18,348	21,420	23,251	25,984	12
Fittings	6,844	3,431	3,769	4,346	5,335	23
Value	2,313	3,176	3,678	3,865	5,551	44
Total Quantity	65,124	70,078	67,927	103,622	112,686	9
Total Value	7,533	6,995	7,153	8,341	14,096	69

1/ : % Changes as compared with 2003

P : Preliminary

E1 : Estimates (Source of Customs Department : Quantity of Copper Plates, Sheets & Strips is 21,334 tonnes)

E2 : Estimates (Source of Customs Department : Quantity of Copper Plates, Sheets & Strips is 18,916 tonnes)

Table 15 Iron and Steel Export Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Pig Iron/DRI/HBI	15,787	13,562	17,100	19,172	24,006	25
Value	457	362	373	438	545	25
2. Ferro-alloys	1,005	121	9	26	21	-19
Ferro-chromium	5	-	-	-	-	-
Ferro-manganese	0	1	-	1	10	-
Ferro-silico-manganese	-	-	-	-	-	-
Ferro-silicon	994	121	9	25	11	24
Other	5	0	-	0	-	-
Value	23	2	1	2	1	-38
3. Scrap	99,960	102,465	87,122	117,927	154,321	31
Carbon Steel	58,712	56,332	43,870	61,808	87,721	42
Cast Iron	187	51	131	129	1,554	1,108
Stainless Steel	29,696	35,569	39,784	51,806	57,703	11
Other Alloy Steel	2,697	3,470	3,337	4,185	7,343	75
Other	8,668	7,043	-	-	-	-
Value	1,380	1,116	1,414	2,198	3,303	50
4. Semi-Finished Products	33,191	9,824	1,007	84,442	72,334	-14
Billet	25,331	5,478	18	62,541	54,909	-12
Billet & Slab (>= 0.25 C)	0	0	-	18,344	15,898	-13
Ingot	47	14	415	48	499	942
Slab	11	41	1	0	-	-
Other	7,803	4,290	573	3,508	1,028	-71
Value	271	91	10	897	993	11
5. Long Products	613,719	732,827	536,414	568,314	615,732	8
Angles, Shapes & Sections	313,606	261,759	250,743	288,344	285,984	-1
Bars	81,777	261,230	57,773	50,274	54,806	9
Cold-drawn Bars	74,204	119,574	131,798	122,918	154,154	25
Wire Rods	28,062	13,855	10,788	6,957	9,345	34
Wires	116,070	76,409	85,312	99,820	111,442	12
Value	8,567	8,403	9,155	10,741	16,348	52
6. Hot Rolled Flat Product	472,845	79,826	236,520	275,923	626,613	127
Coil	435,360	50,605	216,009	253,549	470,561	86
Plate & Sheet	36,127	28,833	20,403	20,619	153,904	646
Strip	1,357	388	108	1,756	2,148	22
Value	5,348	822	3,242	3,941	13,742	249

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
7. Cold Rolled Flat Product	537,192	494,486	534,571	641,576	525,762	-18
Coil	519,432	473,250	428,350	487,786	390,074	-20
Plate & Sheet	10,233	19,377	105,011	151,864	126,878	-16
Strip	7,527	1,859	1,211	1,926	8,810	357
Value	12,068	9,793	10,928	15,677	16,527	5
8. Coated Products	132,659	122,423	136,062	150,963	141,605	-6
Chromium Plate	725	288	72	49	36	-27
Electro Galvanized	36,262	27,864	46,470	46,336	44,698	-4
Hot dip Galvanized	34,508	38,714	33,451	52,627	52,153	-1
Tinplate	3,850	14,071	1,540	1,061	5,668	434
Other	57,314	41,485	19,822	10,112	9,799	-3
Zincalume/ Color Coated	-	-	34,707	40,777	29,251	-28
Value	2,525	2,373	3,047	3,965	4,043	2
9. Pipes & Fittings	338,493	284,012	266,659	237,540	287,193	21
Fittings	53,166	54,151	56,613	61,034	68,864	13
Seam Pipes	256,680	201,940	180,354	142,401	177,245	24
Seamless Pipes	28,647	27,921	29,691	34,106	41,085	20
Value	8,640	8,732	8,498	9,308	12,852	38
10. Sheet Piling	3,729	13,328	14,139	23,749	8,050	-66
Stainless Steel	24	58	0	49	12	-75
Other Alloy Steel	-	0	0	0	-	-
Other	3,705	13,269	14,138	23,701	8,038	-66
Value	56	166	171	360	183	-49
11. Rails and Accessories	732	1,715	1,615	1,385	1,171	-15
Value	27	50	77	48	54	12
Finished Steel Products Total^{2/}	2,099,369	1,728,617	1,725,980	1,899,450	2,206,125	16
Finished Steel Products Value^{2/}	37,231	30,339	35,118	44,041	63,748	45
Total Quantity	2,249,313	1,854,589	1,831,218	2,121,016	2,456,806	16
Total Value	39,361	31,910	36,915	47,575	68,590	44

1/ : % Changes as compared with 2003

2/ : Excludes item 1 - 4

P : Preliminary

E : Estimates (Source of Customs Department : Quantity of Tinplate of Indonesia under code 7210120002 is 4,038 tonnes)

Table 16 Lead Export Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Scrap	788	761	819	687	964	40
<i>Value</i>	53	47	44	60	84	38
2. Unwrought	169	54	1	144	912	532
Lead	0	12 ^E	0	24	9	-63
Lead alloys	169	42	1	120	903	650
<i>Value</i>	4	1	1	4	29	734
3. Powders & Flakes	55	0	0	-	0	-
<i>Value</i>	0	0	0	-	1	-
4. Bars, Rods, Profiles & Wire	2	3	10	15	10	-36
<i>Value</i>	0	1	1	2	2	-29
5. Plates, Sheets, Strip & Foil	0	6	0	8	38	385
<i>Value</i>	0	0	0	1	5	422
6. Tubes, Pipes & Fittings	5	9	0	2	2	-3
<i>Value</i>	1	1	0	0	0	50
Total Quantity	1,019	834	830	857	1,926	125
Total Value	59	51	46	67	121	80

1/ : % Changes as compared with 2003

P : Preliminary

E : Estimates (Source of Customs Department : Quantity of Lead Unwrought is 5,403 tonnes)

Table 17 Nickel Export Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Matte & Sinters	-	-	-	-	-	-
<i>Value</i>	-	-	-	-	-	-
2. Scrap	228	148	138	906	1,137	26
<i>Value</i>	8	5	6	82	183	123
3. Unwrought	-	23	0	1	5	748
Nickel	-	23	0	1	5	733
Nickel alloys	-	-	-	-	0	-
<i>Value</i>	-	7	0	0	3	1,194
4. Powders & Flakes	-	1	-	0	25	43,739
<i>Value</i>	-	0	-	0	2	3,413
5. Bars, Rods & Profiles	-	-	-	0	0	194
<i>Value</i>	-	-	-	0	0	23
6. Wire	0	15	0	2	1	-20
<i>Value</i>	0	5	0	1	0	-47
7. Plates, Sheets & Strip	1	13	6	0	6	-
<i>Value</i>	1	4	6	8	13	68
8. Foil	1	-	-	0	1	166
<i>Value</i>	0	-	-	0	0	5,299
9. Tubes, Pipes & Fittings	3	1	-	4	3	-29
<i>Value</i>	1	0	-	2	1	-37
Total Quantity	232	200	144	912	1,178	29
Total Value	10	21	13	92	202	119

1/ : % Changes as compared with 2003

P : Preliminary

Table 18 Tin Export Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Scrap	51	168	76	144	207	44
<i>Value</i>	1	2	1	2	4	60
2. Unwrought	13,036	18,945	12,758	9,837	13,571	38
Tin	12,833	18,714	12,661	9,762	13,514	38
Tin alloys	203	231	97	75	57	-24
<i>Value</i>	2,802	3,649	2,241	1,989	4,681	135
3. Powders & Flakes	-	-	-	0	30	25,306
<i>Value</i>	-	-	-	0	11	12,156
4. Bars, Rods, & Profiles	2	40	263	628	839	34
<i>Value</i>	0	9	70	176	307	74
5. Wire	-	8	0	2	1	-40
<i>Value</i>	-	0	0	1	0	-78
6. Plates, Sheets & Strip (t>0.2mm)	73	40	0	-	2	-
<i>Value</i>	8	4	0	-	0	-
7. Foil	-	0	-	-	1	-
<i>Value</i>	-	0	-	-	1	-
8. Tubes, Pipes & Fittings	-	1	0	-	1	-
<i>Value</i>	-	0	0	-	1	-
9. Other	567	553	420	431	444	3
<i>Value</i>	240	240	222	230	246	7
Total Quantity	13,730	19,755	13,516	11,042	15,097	37
Total Value	3,051	3,904	2,536	2,398	5,250	119

1/ : % Changes as compared with 2003

P : Preliminary

Table 19 Zinc Export Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Scrap	448	510	1,077	1,736	2,088	20
<i>Value</i>	7	8	26	40	53	34
2. Unwrought	26,062	66,191	20,334	24,044	17,139	-29
Zinc	18,758	60,369	9,170	7,902	2,819	-64
Zinc alloys	7,305	5,823	11,163	16,142	14,321	-11
<i>Value</i>	1,230	1,124	756	897	767	-14
3. Dust, Powders & Flakes	163	96	748	1,172	1,422	21
<i>Value</i>	3	3	14	16	21	26
4. Bars, Rods, & Profiles	-	17	157	17	23	35
<i>Value</i>	-	1	5	1	1	98
5. Wire	77	29	21	129	53	-59
<i>Value</i>	1	1	0	3	3	9
6. Plates, Sheets & Strip	6,829	3,973	6,516	11,277	8,649	-23
<i>Value</i>	140	95	134	274	215	-21
7. Foil	-	0	-	0	1	-
<i>Value</i>	-	0	-	0	0	-
8. Tubes, Pipes & Fittings	331	601	422	451	565	25
<i>Value</i>	57	74	49	55	74	35
Total Quantity	33,910	71,401	29,118	38,809	29,940	-23
Total Value	1,438	1,305	980	1,284	1,133	-12

1/ : % Changes as compared with 2003

P : Preliminary

Table 20 Precious Metals Export Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Silver	77,817	2,427	1,973	2,227	1,745	-22
Metal product	600	2,418	1,909	201	209	4
Jewellery	77,217	9	64	2,027	1,536	-24
Value	10,289	12,287	13,904	17,502	20,432	17
2. Gold	2,716	259	128	173	101	-42
Metal product	7	5	42 ^E	49	23	-53
Jewellery	2,709	254	86	124	78	-37
Value	23,191	31,143	38,771	46,161	37,909	-18
3. Platinum - Group^{2/}	26	15	6	17	9	-47
Metal product	3	0	0	0	1	356
Jewellery	23	14	6	17	8	-53
Others ^{3/}	0	0	-	0	1	78
Value	692	1,566	542	664	657	-1
Total Quantity	80,559	2,701	2,107	2,417	1,855	-23
Total Value	34,172	44,996	53,218	64,327	58,998	-8

1/ : % Changes as compared with 2003

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 Metal Products is 1,874 tonnes)

P : Preliminary

Table 21 Others Export Statistics 2000 - 2004

Unit : Metric Tonnes

Value : Million Baht

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
1. Antimony	193	130	123	370	-	-
Value	13	6	12	34	-	-
2. Beryllium	0	-	-	-	0	-
Value	0	-	-	-	0	-
3. Bismuth	-	-	-	-	0	-
Value	-	-	-	-	1	-
4. Cadmium	19	-	2	1	-	-
Value	0	-	0	0	-	-
5. Chromium	0	-	-	0	0	321
Value	0	-	-	0	0	-75
6. Cobalt	46	0	0	0	-	-
Value	3	0	1	0	-	-
7. Germanium	-	-	-	-	0	-
Value	-	-	-	-	0	-
8. Magnesium	0	35	3	30	11	-64
Unwrought	-	-	-	30	11	-64
Scrap	-	20	-	-	0	-
Other	-	15	3	0	-	-
Value	-	3	0	2	1	-60
9. Manganese	1	-	-	-	2,900	-
Value	0	-	-	-	8	-
10. Molybdenum	0	0	0	0	1	1,330
Powders	-	-	0	-	-	-
Wire	0	-	-	-	-	-
Other	-	0	-	0	1	1330
Value	1	0	0	1	2	228
11. Tantalum	156	81	265	108	226	109
Value	2,185	1,550	1,976	1,288	2,233	73
12. Titanium	4	3	8	4	2	-49
Value	29	9	24	16	10	-37
13. Tungsten	5	6	16	21	30	40
Powders	2	1	11	6	3	-47
Wire	0	0	0	0	1	621
Other	3	4	4	16	26	66
Value	2	4	13	26	61	139

ITEM	2000	2001	2002	2003	2004 ^P	%Δ ^{1/}
14. Vanadium	-	-	-	-	-	-
<i>Value</i>	-	-	-	-	-	-
15. Zirconium	3	1	-	-	-	-
<i>Value</i>	0	0	-	-	-	-
16. Other	0	-	3	-	0	-
<i>Value</i>	0	-	2	-	0	-
Total Quantity	427	255	420	535	3,170	493
Total Value	2,232	1,573	2,028	1,366	2,316	69

1/ : % Changes as compared with 2003

P : Preliminary

DOMESTIC PRICE

Table 22 Metals Domestic Price Statistics 2004

Unit : Baht/Kg.

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1. Aluminium	73	78	77	77	75	75	78	80	80	85	85	80	79
2. Antimony	108	120	130	125	125	125	120	140	145	140	140	130	129
3. Brass	65	85	83	80	70	80	80	85	85	95	93	83	82
4. Copper	120	125	140	120	98	110	130	140	150	140	145	150	131
5. Gold^{1/}	494	483	488	489	477	485	494	506	512	535	547	539	504
6. Lead	35	40	38	38	40	43	45	44	46	47	47	45	42
7. Nickel	600	600	600	550	500	600	650	650	600	650	640	600	603
8. Tin	281	285	330	392	420	430	398	410	420	400	400	370	378
9. Zinc	48	52	57	58	54	55	52	53	55	55	56	55	54

Gold Bullion : Weight 1 Baht = 15.244 g

1/ : Unit in Baht/g. Source : Bank of Thailand

Source : Local Market Trader

Table 23 Iron and Steel Domestic Price Statistics 2004

Unit : Baht/Kg.

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1. Scrap^{1/}	7.86	8.93	9.39	9.37	8.69	8.16	7.82	8.95	9.35	10.05	10.11	10.00	9.06
2. Round Bars SR.24 Ø 6 mm.	19.85	21.23	22.05	21.95	20.68	19.12	20.48	22.28	22.28	22.75	22.18	21.41	21.36
3. Round Bars SR.24 Ø 12 mm.	18.27	19.96	20.64	20.52	19.47	17.66	18.90	20.70	21.36	21.31	20.73	19.73	19.94
4. Deformed Bars SD.30 Ø 12	18.36	19.71	20.54	20.45	19.09	18.00	18.87	20.64	21.24	21.24	20.65	19.69	19.87
5. Deformed Bars SD.40 Ø 12	18.53	19.98	20.74	20.85	19.33	17.67	19.09	21.00	21.52	21.50	20.85	19.88	20.08
6. Angle (Size 40x40x3 mm.)	18.79	21.72	21.72	23.24	23.07	21.00	21.26	22.74	23.54	23.66	23.40	22.85	22.25
7. Channel (Size 75x40 mm	18.43	20.84	20.84	20.83	21.39	21.14	21.03	22.61	23.09	23.09	23.09	21.57	21.50
8. Wires (No. 18)	23.33	28.20	28.50	29.50	28.75	28.46	28.67	29.54	31.67	31.33	29.67	29.33	28.91
9. P.C. WIRE	33.83	35.33	37.00	38.33	38.33	38.67	38.67	38.67	38.67	38.67	38.00	38.00	37.68
10. P.C. STRAND	34.83	36.33	38.00	39.33	39.83	39.67	39.67	39.67	39.67	39.67	38.83	38.50	38.67
11. HR coil	18.20	21.70	22.66	22.60	22.55	21.97	22.50	24.15	24.95	26.01	24.57	24.47	23.03

Source: 1/ Entrepreneur

: Bureau of Trade and Economic Indices

APPENDIX I

METALS WORLD PRICE STATISTICS

Table I-1 Aluminium World Price Statistics 1991-2004

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1991	1,516	1,505	1,497	1,392	1,297	1,276	1,297	1,257	1,212	1,150	1,135	1,098	1,303
1992	1,178	1,267	1,281	1,316	1,307	1,276	1,311	1,305	1,268	1,174	1,159	1,204	1,254
1993	1,207	1,202	1,152	1,109	1,124	1,163	1,203	1,172	1,116	1,087	1,040	1,095	1,139
1994	1,175	1,270	1,289	1,279	1,323	1,401	1,493	1,460	1,570	1,698	1,893	1,879	1,478
1995	2,061	1,901	1,806	1,849	1,763	1,780	1,860	1,889	1,761	1,675	1,655	1,657	1,805
1996	1,589	1,592	1,612	1,587	1,589	1,482	1,459	1,463	1,407	1,336	1,449	1,500	1,505
1997	1,575	1,580	1,631	1,561	1,625	1,568	1,592	1,711	1,611	1,608	1,599	1,531	1,599
1998	1,486	1,466	1,438	1,419	1,365	1,308	1,310	1,311	1,342	1,304	1,295	1,249	1,358
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

Source : London Metal Exchange (LME)

Table I-2 Antimony World Price Statistics 1991-2004

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1991	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	1,728	1,720	1,721	1,741	1,750	1,748	1,749	1,748	1,738	1,731	1,737	1,706	1,735
1993	1,710	1,709	1,688	1,700	1,666	1,619	1,595	1,609	1,613	1,618	1,643	1,654	1,652
1994	1,694	1,729	1,837	2,056	2,663	3,461	4,756	5,231	5,622	5,914	6,005	5,722	3,891
1995	5,206	5,113	4,769	3,979	3,094	3,039	4,322	4,971	4,807	3,817	3,572	3,386	4,173
1996	3,339	3,531	3,648	3,522	3,088	3,006	2,843	2,806	2,611	2,178	2,048	2,167	2,899
1997	2,345	2,412	2,237	2,390	2,253	2,149	2,039	1,966	1,943	1,910	1,773	1,621	2,087
1998	1,715	1,661	1,611	1,573	1,527	1,450	1,352	1,274	1,356	1,381	1,421	1,262	1,465
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

Source : MB Free Market

Table I-3 Cadmium (99.99%) World Price Statistics 1991-2004

Unit : US\$/Pound

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1991	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	1.84	1.56	1.39	1.35	1.24	1.02	1.05	1.01	0.96	0.90	0.84	0.67	1.15
1993	0.65	0.65	0.61	0.55	0.55	0.58	0.58	0.58	0.53	0.53	0.52	0.50	0.57
1994	0.56	0.76	0.72	0.82	0.88	0.82	0.90	1.51	1.79	2.21	2.00	1.88	1.24
1995	1.77	1.69	1.60	1.50	1.41	1.49	2.11	2.28	2.22	2.22	2.30	2.19	1.90
1996	2.08	1.94	1.71	1.60	1.27	1.11	1.23	1.21	1.19	0.96	0.81	0.81	1.33
1997	0.84	0.82	0.78	0.67	0.67	0.63	0.65	0.62	0.56	0.51	0.50	0.44	0.64
1998	0.40	0.44	0.32	0.40	0.67	0.35	0.33	0.31	0.24	0.21	0.22	0.24	0.34
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

Source : MB Free Market

Table I-4 Copper World Price Statistics 1991-2004

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1991	2,451	2,451	2,416	2,474	2,308	2,221	2,235	2,235	2,323	2,364	2,379	2,218	2,340
1992	2,140	2,206	2,228	2,218	2,217	2,300	2,519	2,520	2,417	2,255	2,159	2,210	2,282
1993	2,259	2,212	2,154	1,952	1,795	1,853	1,927	1,947	1,862	1,651	1,630	1,724	1,914
1994	1,805	1,866	1,915	1,882	2,151	2,364	2,458	2,406	2,506	2,548	2,802	2,985	2,307
1995	3,009	2,878	2,924	2,904	2,773	2,995	3,076	3,037	2,916	2,813	2,977	2,926	2,936
1996	2,615	2,637	2,560	2,595	2,657	2,170	1,984	2,008	1,941	1,961	2,230	2,267	2,302
1997	2,434	2,404	2,421	2,390	2,514	2,613	2,450	2,251	2,107	2,052	1,917	1,762	2,276
1998	1,688	1,665	1,748	1,801	1,733	1,660	1,651	1,621	1,648	1,586	1,574	1,474	1,654
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

Source : London Metal Exchange (LME)

Table I-5 Gold World Price Statistics 1991-2004

Unit : US\$/Troy Oz.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1991	385	364	363	358	357	366	368	357	348	359	360	362	362
1992	354	354	345	339	337	341	352	344	345	344	335	335	344
1993	329	329	330	342	367	372	392	380	356	364	374	383	360
1994	387	382	384	378	381	386	385	380	391	390	384	379	384
1995	379	377	382	391	385	388	386	383	383	383	385	387	384
1996	399	405	397	393	392	385	383	388	383	381	378	369	388
1997	355	347	352	344	344	341	324	324	323	325	307	289	331
1998	289	297	296	308	299	292	293	284	289	297	294	290	294
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

Source : London Metal Exchange (LME)

: *World Gold Council

Table I-6 Lead World Price Statistics 1991-2004

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1991	601	593	605	601	556	550	548	541	540	522	506	531	558
1992	515	505	521	533	522	548	622	654	621	538	461	456	541
1993	437	414	406	421	407	395	388	388	376	384	400	461	406
1994	490	485	451	440	474	525	580	571	614	642	667	634	548
1995	667	580	586	609	596	612	622	624	593	637	714	732	631
1996	709	769	817	815	840	796	783	815	796	741	716	688	774
1997	692	670	694	642	618	615	634	608	634	600	563	526	625
1998	532	517	560	573	543	528	546	537	520	493	494	501	529
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

Source : London Metal Exchange (LME)

Table I-7 Nickel World Price Statistics 1991-2004

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1991	8,578	8,674	8,705	9,026	8,457	8,283	8,548	8,148	7,684	7,446	7,247	7,121	8,160
1992	7,520	7,865	7,420	7,423	7,325	7,195	7,489	7,271	6,899	6,281	5,567	5,721	6,998
1993	5,933	6,041	5,974	5,975	5,765	5,543	5,039	4,723	4,355	4,451	4,636	5,121	5,296
1994	5,580	5,827	5,590	5,410	6,089	6,284	6,230	5,861	6,367	6,750	7,559	8,560	6,342
1995	9,596	8,509	7,536	7,400	7,236	7,874	8,599	8,947	8,408	8,065	8,509	8,094	8,231
1996	7,862	8,216	8,022	8,043	8,027	7,709	7,203	7,054	7,318	7,031	6,943	6,679	7,509
1997	7,170	7,734	7,895	7,315	7,483	7,065	6,838	6,747	6,504	6,380	6,137	5,945	6,934
1998	5,494	5,390	5,399	5,397	5,023	4,479	4,329	4,084	4,106	3,875	4,135	3,881	4,633
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

Source : London Metal Exchange (LME)

Table I-8 Platinum World Price Statistics 1991-2004

Unit : US\$/Troy Oz.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1991	409	386	400	398	390	376	376	347	349	363	365	355	376
1992	341	362	357	348	358	369	383	360	362	358	356	362	360
1993	359	359	350	369	385	384	403	393	362	368	375	383	374
1994	388	394	400	397	398	401	411	412	417	419	413	410	405
1995	414	414	416	449	437	438	433	425	430	413	413	410	424
1996	416	420	411	404	401	392	393	400	390	384	382	370	397
1997	359	364	380	371	389	431	416	425	425	424	393	367	395
1998	375	386	399	414	389	356	378	370	360	351	347	350	373
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

Source : London Metal Exchange (LME)

: *Kitco Inc.

Table I-9 Palladium World Price Statistics 1991-2004

Unit : US\$/Troy Oz.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1991	87	84	86	97	96	97	95	83	82	85	85	83	88
1992	83	86	84	84	83	81	87	86	91	95	95	107	89
1993	110	110	106	115	120	127	139	137	121	130	128	125	122
1994	124	132	133	134	136	137	146	152	153	155	157	154	143
1995	156	157	163	170	161	159	155	150	144	137	134	132	152
1996	129	139	138	137	132	129	132	127	122	118	117	117	128
1997	121	136	149	154	171	204	179	215	191	205	208	199	178
1998	226	236	262	321	354	284	307	288	283	283	277	297	285
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

Source : London Metal Exchange (LME)

: *Kitco Inc.

Table I-10 Silver World Price Statistics 1991-2004

Unit : US\$/Troy Oz.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1991	4.05	3.74	3.95	3.98	4.05	4.39	4.35	3.96	4.04	4.12	4.07	3.95	4.05
1992	4.12	4.15	4.11	4.05	4.07	4.06	3.97	3.82	3.77	3.75	3.77	3.73	3.95
1993	3.68	3.66	3.65	3.96	4.46	4.37	5.02	4.84	4.22	4.34	4.53	4.97	4.31
1994	5.14	5.25	5.43	5.31	5.42	5.39	5.28	5.19	5.52	5.46	5.19	4.78	5.28
1995	4.77	4.72	4.65	5.50	5.54	5.35	5.17	5.39	5.44	5.37	5.32	5.18	5.20
1996	5.47	5.62	5.53	5.41	5.37	5.16	5.06	5.13	5.04	4.93	4.83	4.79	5.20
1997	4.76	5.09	5.20	4.76	4.76	4.75	4.36	4.51	4.72	5.01	5.06	5.72	4.89
1998	5.84	6.72	6.24	6.32	5.56	5.27	5.46	5.18	4.99	5.13	4.98	4.86	5.55
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

Source : London Metal Exchange (LME)

: *Kitco Inc.

Table I-11 Steel World Price Statistics 2004

Unit : US\$/Metric Ton

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
US Steel Import													
Rebar													
Min	370	450	505	500	500	500	495	505	480	na	na	460	477
Max	390	470	525	520	520	520	508	520	507	480	480	480	493
Merchant bars													
Min	400	447	na	na	na	580	582	590	590	590	590	590	551
Max	420	467	na	na	na	600	602	610	610	610	610	610	571
Wire rod													
Min	370	465	540	520	520	520	514	530	530	510	510	507	503
Max	400	490	562	540	540	540	534	550	550	520	520	517	522
CR coil													
Min	na	598	633	647	660	660	662	710	720	na	700	na	666
Max	na	623	675	673	680	680	674	725	740	720	713	720	693
HR coil													
Min	360	500	573	550	550	600	612	690	680	680	635	627	588
Max	420	525	603	580	580	605	617	705	690	760	655	647	616
Galvanized coil													
Min	na	635	730	740	740	763	770	na	na	na	na	790	738
Max	na	663	750	750	750	773	816	840	840	841	842	843	792
China													
Slab													
Min	354	439	448	440	na	na	na	na	na	na	540	540	460
Max	361	453	458	450	na	na	na	na	na	na	555	550	471
Billet													
Min	358	431	453	450	na	na	na	na	na	400	385	367	406
Max	370	453	461	455	na	na	na	na	na	420	405	377	420
Merchant bars													
Min	na	na	na	na	na	na	na	na	na	na	na	na	na
Max	na	na	na	na	na	na	na	na	na	na	na	na	na
CR coil													
Min	476	573	568	573	560	548	514	540	638	666	670	670	583
Max	500	590	583	590	580	583	534	550	660	696	700	700	606
HR coil													
Min	400	455	453	463	438	430	422	440	na	600	600	600	482
Max	419	465	463	497	458	450	434	460	na	630	630	630	503

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Latin America													
Wire rods													
Min	315	415	440	480	473	450	na	na	480	473	445	430	440
Max	336	424	458	500	490	460	466	470	493	483	448	440	456
HR coil													
Min	295	398	478	533	na	510	528	540	560	560	568	570	504
Max	310	433	520	560	525	530	556	570	590	590	598	600	532
CR coil													
Min	405	500	578	617	610	610	628	640	660	660	663	650	602
Max	425	530	615	653	628	630	640	658	678	681	708	700	629
Galvanized coil													
Min	456	553	670	700	700	710	726	740	750	750	750	737	687
Max	475	590	700	730	728	730	756	770	780	780	788	790	718
CIS*													
Slab													
Min	348	388	435	445	445	445	448	460	480	488	500	483	447
Max	370	411	465	470	470	470	470	480	500	508	530	533	473
Billet													
Min	339	385	392	380	326	290	340	380	380	370	351	330	355
Max	355	406	414	390	338	304	358	395	390	380	361	340	369
Rebars													
Min	351	408	428	460	430	396	395	420	430	428	413	400	413
Max	365	425	455	470	440	406	405	435	450	443	423	413	428
Wire rods													
Min	353	409	438	460	433	396	410	420	430	435	450	447	423
Max	364	426	455	470	443	406	420	435	450	455	463	457	437
CR coil													
Min	466	524	560	560	550	520	520	520	570	590	590	570	545
Max	490	548	596	580	573	550	550	550	600	643	673	690	587
HR coil													
Min	368	445	480	460	435	430	438	450	520	548	500	480	463
Max	400	485	560	520	505	500	500	500	550	610	588	600	527
Brussel													
Merchant bars													
Min	310	326	404	427	458	468	480	480	510	528	548	510	429
Max	320	336	422	448	478	488	500	500	530	550	568	530	447
Wire rod													
Min	310	336	403	420	430	438	450	450	480	530	578	555	448
Max	320	351	421	438	460	460	470	470	500	548	598	573	467

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
CR coil													
Min	393	410	512	553	580	580	580	580	640	679	715	703	577
Max	403	425	524	567	599	600	600	600	660	695	735	717	594
ECSC**													
Merchant bars													
Min	370	443	470	na	na	na	na	na	na	na	na	na	428
Max	388	455	480	525	na	na	na	na	na	na	na	na	462
Wire rod													
Min	310	445	522	515	460	440	440	440	500	545	530	497	470
Max	335	483	537	530	480	450	450	450	530	575	560	527	492
HR coil													
Min	340	419	480	480	540	560	560	560	580	580	580	580	522
Max	354	439	510	510	563	580	580	580	600	604	605	605	544
CR coil													
Min	413	476	560	557	628	650	650	650	670	678	680	680	608
Max	431	503	590	582	650	670	670	670	690	695	700	700	629
Galvanized coil													
Min	428	530	650	650	684	695	695	695	695	699	705	700	636
Max	453	573	670	670	708	720	720	720	720	728	733	730	662

Source : Metal Bulletin

* : Commonwealth of Independent States

** : European Coal and Steel Community

Table I-12 Tin World Price Statistics 1991-2004

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1991	5,623	5,589	5,517	5,560	5,702	5,711	5,670	5,639	5,570	5,550	5,506	5,510	5,596
1992	5,477	5,616	5,632	5,839	6,109	6,619	7,001	6,780	6,627	5,998	5,736	5,754	6,099
1993	5,901	5,791	5,659	5,591	5,504	4,972	4,973	4,809	4,491	4,681	4,641	4,778	5,149
1994	4,943	5,443	5,405	5,386	5,504	5,509	5,311	5,162	5,321	5,474	6,161	5,947	5,464
1995	6,199	5,478	5,532	5,872	5,926	6,671	6,669	6,992	6,328	6,221	6,387	6,290	6,214
1996	6,274	6,192	6,192	6,477	6,409	6,189	6,247	6,107	6,098	5,939	5,989	5,833	6,162
1997	5,875	5,881	5,906	5,745	5,708	5,366	5,443	5,426	5,494	5,561	5,651	5,514	5,631
1998	5,206	5,243	5,477	5,714	5,874	5,970	5,654	5,692	5,486	5,432	5,478	5,258	5,540
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

Source : London Metal Exchange (LME)

Table I-13 Zinc World Price Statistics 1991-2004

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1991	1,207	1,187	1,199	1,256	1,091	1,062	1,064	1,047	1,024	992	1,094	1,189	1,118
1992	1,154	1,131	1,215	1,305	1,368	1,386	1,314	1,361	1,363	1,172	1,047	1,058	1,240
1993	1,061	1,072	996	1,005	982	927	928	884	875	915	929	975	962
1994	997	969	936	924	956	967	964	945	993	1,059	1,152	1,115	998
1995	1,157	1,033	1,023	1,062	1,037	1,010	1,027	1,015	987	980	1,031	1,018	1,032
1996	1,019	1,036	1,064	1,045	1,036	1,008	1,000	1,007	1,000	1,003	1,046	1,036	1,025
1997	1,086	1,179	1,255	1,240	1,311	1,354	1,518	1,654	1,641	1,280	1,117	1,102	1,311
1998	1,097	1,045	1,048	1,097	1,061	1,010	1,040	1,030	1,000	940	967	959	1,025
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

Source : London Metal Exchange (LME)