

**Statistics Report
No. BPI 6/2004**

**THAILAND
METAL STATISTICS YEAR 2003**

**Bureau of Primary Industries
Department of Primary Industries and Mines**

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No. BPI 6/2004**

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METAL STATISTICS YEAR 2003**

Teerawut Tunnukij

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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 2003" 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.

(Monthop Valayapetre)
Director

CONTENT

	Page
PREFACE	iii
OVERALL TITLE	
Table 1 Overall Metal Production Statistics 2001-2003	3
PRODUCTION	
Table 2 Nonferrous Production Statistics 1999 - 2003	7
Table 3 Steel Production Statistics 1999 - 2003	7
IMPORT	
Table 4 Aluminium Import Statistics 1999 - 2003	11
Table 5 Copper Import Statistics 1999 - 2003	12
Table 6 Iron and Steel Import Statistics 1999 - 2003	13
Table 7 Lead Import Statistics 1999 - 2003	15
Table 8 Nickel Import Statistics 1999 - 2003	16
Table 9 Tin Import Statistics 1999 - 2003	17
Table 10 Zinc Import Statistics 1999 - 2003	18
Table 11 Precious Metals Import Statistics 1999 - 2003	19
Table 12 Others Import Statistics 1999 - 2003	20
EXPORT	
Table 13 Aluminium Export Statistics 1999 - 2003	25
Table 14 Copper Export Statistics 1999 - 2003	26
Table 15 Iron and Steel Export Statistics 1999 - 2003	27
Table 16 Lead Export Statistics 1999 - 2003	29
Table 17 Nickel Export Statistics 1999 - 2003	30
Table 18 Tin Export Statistics 1999 - 2003	31
Table 19 Zinc Export Statistics 1999 - 2003	32
Table 20 Precious Metals Export Statistics 1999 - 2003	33
Table 21 Others Export Statistics 1999 - 2003	34
PRICE	
Table 22 Metals Domestic Price Statistics 2003	39
Table 23 Iron and Steel Domestic Price Statistics 2003	39
APPENDIX I METALS WORLD PRICE STATISTICS	
Table I-1 Aluminium World Price Statistics 1990-2003	43
Table I-2 Antimony World Price Statistics 1990-2003	43
Table I-3 Cadmium (99.99%) World Price Statistics 1990-2003	44
Table I-4 Copper World Price Statistics 1990-2003	44
Table I-5 Gold World Price Statistics 1990-2003	45
Table I-6 Lead World Price Statistics 1990-2003	45
Table I-7 Nickel World Price Statistics 1990-2003	46
	Page

Table I-8	Platinum World Price Statistics 1990-2003	46
Table I-9	Palladium World Price Statistics 1990-2003	47
Table I-10	Silver World Price Statistics 1990-2003	47
Table I-11	Steel World Price Statistics 2003	48
Table I-12	Tin World Price Statistics 1990-2003	51
Table I-13	Zinc World Price Statistics 1990-2003	51

OVERALL

Table 1 Overall Metal Production Statistics 2001-2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	Quantities			Value ^E		
	2001	2002	2003	2001	2002	2003
1. Antimony	12	0	12	1	0	1
2. Lead	30,000	42,900	45,300	640	800	930
3. Steel^{1/}	7,210	9,460	10,236	99,970	137,200	186,500
4. Tantalum Powder	150	102	168	2,600	1,450	2,190
5. Tin	22,900	18,600	15,400	4,600	3,150	3,100
6. Zinc	104,300	104,800	116,400	4,110	3,440	3,850
7. Gold and Silver	1.5	23.0	16.8	132	2,235	2,184
- Gold	0.3	4.9	4.3	125	2,123	2,077
- Silver	1.2	18.0	12.5	7	112	107

1/ : Unit in 1,000 Tonnes

E : Estimate

PRODUCTION

Table 2 Nonferrous Production Statistics 1999 - 2003

Unit : Metric Tonnes

ITEM	1999	2000	2001	2002	2003	% Δ ^{1/}
1. Antimony	40	16	12	0	12	-
2. Lead	26,800	27,200	30,000	42,900	45,300	6
3. Tantalum Powder	100	210	150	102	168	65
4. Tin	17,300	17,100	22,900	18,600	15,400	-17
5. Zinc	97,300	101,100	104,300	104,800	116,400	11
6. Gold and Silver	-	-	1.5	23.0	16.8	-27
- Gold			0.3	4.9	4.3	-13
- Silver			1.2	18.0	12.5	-31

1/ : % Changes as compared with 2002

Table 3 Steel Production Statistics 1999 - 2003

Unit : 1,000 Tonnes

ITEM	1999	2000	2001	2002	2003	% Δ ^{1/}
1. Semi-finished Products	1,474	1,648	1,711	2,008	2,472	23
2. Long Products ^{E1}	2,046	2,210	2,500	3,343	3,534	6
3. Flat Products	2,557	3,660	3,358	4,617	5,003	8
Hot-Rolled Coils	1,560	2,243	1,895	2,952	3,321	13
Hot-Rolled Plates						
Cold-Rolled Coils	997	1,417	1,464	1,665	1,682	1
4. Others Products ^{2/}	17	25	46	46	24	-47
5. Coated Steel	797	878	825	944	1,240	31
Tinplates	250	208	212	244	274	12
Tin Free Steel	116	100	104	109	137	25
Galvanized Sheets	287	385	326	444	710	60
Zincalume, Colorbond, ShutterEx and Paint	144	186	183	147	119	-19
6. Pipes & Tubes ^{E2}	640	900	480	513	435	-15
Steel Products Total ^{3/}	6,057	7,673	7,210	9,462	10,236	8

1/ : % Changes as compared with 2002

2/ : Electric Arc Furnace - EAF

3/ : Excludes Item 1

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

E2 : Estimates

IMPORT

Table 4 Aluminium Import Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Scrap	7,156	11,485	13,126	17,602	22,364	27
<i>Value</i>	304	569	699	890	1,158	30
2. Unwrought	159,635	236,949	235,196	259,324	330,317	27
Aluminium	82,393	113,133	126,562 ^{E2}	124,554	144,159	16
Aluminium alloys	77,242	123,816 ^{E1}	108,634	134,769	186,158	38
<i>Value</i>	9,664	14,280	17,122	16,343	20,128	23
3. Powders & Flakes	232	581	580	671	864	29
<i>Value</i>	44	59	64	62	78	26
4. Bars, Rods & Profiles	3,084	3,911	3,416	2,615	4,278	64
Aluminium	334	1,503	1,609	432	641	48
Aluminium alloys	2,750	2,408	1,807	2,184	3,638	67
<i>Value</i>	398	499	431	359	575	60
5. Wire	2,357	2,360	2,528	2,741	2,634	-4
Aluminium	511	270	231	205	308	51
Aluminium alloys	1,846	2,090	2,297	2,536	2,326	-8
<i>Value</i>	291	367	356	314	311	-1
6. Plates, Sheets & Strip (t>0.2mm)	40,534	56,680	56,166	61,025	70,755	16
Aluminium	13,743	16,392	7,124	7,612	7,930	4
Aluminium alloys	26,792	40,289	49,042	53,413	62,825	18
<i>Value</i>	4,390	6,169	6,689	6,805	7,804	15
7. Foil (t<=0.2mm)	80,989	17,950	20,407	21,686	26,571	23
Not backed	79,172	15,245	16,457	17,574	22,278	27
Backed	1,817	2,706	3,950	4,112	4,293	4
<i>Value</i>	2,888	3,387	3,683	3,693	4,290	16
8. Tubes, Pipes & Fittings	1,732	2,140	1,866	2,160	2,391	11
Tubes & Pipes	1,629	2,024	1,746	1,843	2,191	19
Fittings	103	115	120	317	200	-37
<i>Value</i>	551	599	786	742	890	20
Total Quantity	295,720	332,057	333,285	367,824	460,174	25
Total Value	18,530	25,930	29,830	29,209	35,234	21

1/ : % Changes as compared with 2002

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 alloys unwrought is 1,924,018 tonnes)

Table 5 Copper Import Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Matte & Cement	-	0	15	176	1	-100
<i>Value</i>	-	0	3	3	0	-90
2. Scrap	2,949	4,358	4,210	4,245	4,757	12
<i>Value</i>	138	247	287	208	360	73
3. Unwrought	123,283	159,067	175,331	195,465	217,016	11
Copper	117,465	150,864	166,795	186,633	205,187	10
Copper alloys	5,818	8,203	8,535	8,832	11,829	34
<i>Value</i>	7,853	11,990	13,693	14,153	16,243	15
4. Powders & Flakes	735	570	450	559	587	5
<i>Value</i>	62	79	80	101	118	17
5. Bars, Rods & Profiles	3,446	3,759	4,074	6,202	7,705	24
Copper	225	669	407	671	934	39
Copper alloys	3,221	3,089	3,666	5,530	6,771	22
<i>Value</i>	382	488	513	692	888	28
6. Wire	33,909	28,799	26,680	36,362	45,421	25
Copper	31,079	25,379	23,140	31,792	41,128	29
Copper alloys	2,830	3,420	3,540	4,570	4,293	-6
<i>Value</i>	2,332	2,809	2,632	2,837	4,171	47
7. Plates, Sheets & Strip (t>0.15 mm)	14,266	19,875	18,170	26,365	28,732	9
Copper	2,198	5,591	5,828	8,058	8,594	7
Copper alloys	12,068	14,284	12,342	18,308	20,139	10
<i>Value</i>	2,375	3,470	3,968	3,956	4,585	16
8. Foil (t<=0.15 mm)	14,061	14,110	12,102	14,154	14,517	3
Not backed	8,036	6,272	6,111	5,870	6,725	15
Backed	6,025	7,838	5,991	8,284	7,791	-6
<i>Value</i>	2,961	3,331	2,826	2,881	3,524	22
9. Tubes, Pipes & Fittings	12,617	8,453	10,585	9,619	11,578	20
Tubes & Pipes	12,449	8,139	10,190	9,365	11,172	19
Fittings	168	314	396	254	406	60
<i>Value</i>	1,315	1,403	1,863	1,649	1,953	18
Total Quantity	205,266	238,992	251,616	293,148	330,314	13
Total Value	17,418	23,817	25,865	26,481	31,844	20

1/ : % Changes as compared with 2002

P : Preliminary

E : Estimates (Source of Customs Department : Quantity of Copper wire is 105,815 tonnes)

Table 6 Iron and Steel Import Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Pig Iron/DRI/HBI	139,450	312,764	113,478	203,968	369,589	81
<i>Value</i>	<i>1,009</i>	<i>1,910</i>	<i>987</i>	<i>1,586</i>	<i>3,216</i>	103
2. Ferro-alloys	45,174	54,617	48,185	54,457	72,017	32
Ferro-chromium	3,976	7,188	4,218	5,471	8,628	58
Ferro-manganese	5,527	7,211	6,593	7,221	8,070	12
Ferro-silicon	14,910	17,506	17,291	18,223	26,423	45
Ferro-silicon-manganese	19,148	20,859	19,040	22,047	27,511	25
Other	1,613	1,853	1,043	1,495	1,385	-7
<i>Value</i>	<i>1,111</i>	<i>1,281</i>	<i>1,231</i>	<i>1,326</i>	<i>1,834</i>	38
3. Scrap	629,698	741,332	696,512	977,555	1,279,889	31
Carbon Steel	612,235	706,587	636,004	945,155	1,220,880	29
Cast Iron	758	144	65	197	13,463	6,732
Stainless Steel	693	7,660	343	4,038	3,970	-2
Other Alloy Steel	14,658	25,464	52,280	28,090	41,562	48
Other	1,354	1,476	7,821	75	15	-80
<i>Value</i>	<i>3,578</i>	<i>4,642</i>	<i>4,675</i>	<i>6,697</i>	<i>9,926</i>	48
4. Semi-Finished Products	3,190,959	2,736,852	2,791,793	5,014,269	4,166,099	-17
Billet	861,662	602,584	1,044,638	1,759,849	1,619,441	-8
Billet & Slab (>= 0.25 C)	312,450	110,006	180,475	250,427	313,445	25
Ingot	361	139	255	719	2,009	179
Slab	1,926,176	1,818,973	1,492,175	2,939,626	2,173,120	-26
Other	90,310	205,150	74,250	63,649	58,083	-9
<i>Value</i>	<i>21,244</i>	<i>22,137</i>	<i>22,476</i>	<i>41,979</i>	<i>46,177</i>	10
5. Long Products	559,672	625,922	623,088	822,073	843,077	3
Angles, Shapes & Sections	25,249	58,719	35,110	14,027	20,262	44
Bars	129,664	171,300	183,006	239,440	268,056	12
Cold-drawn Bars	14,211	21,610	21,048	21,152	39,203	85
Wire Rods	334,456	323,388	329,709	473,352	443,191	-6
Wires	56,092	50,905	54,215	74,101	72,364	-2
<i>Value</i>	<i>13,083</i>	<i>16,009</i>	<i>16,703</i>	<i>18,528</i>	<i>20,353</i>	10
6. Hot Rolled Flat Product	1,837,495	2,074,998	2,372,782	2,426,063	2,990,162	23
Coil	1,716,425	1,929,829	2,176,596	2,281,682	2,565,333	12
Plate & Sheet	116,113	138,170	189,975	138,958	418,366	201
Strip	4,957	7,000	6,212	5,422	6,463	19
<i>Value</i>	<i>25,008</i>	<i>32,267</i>	<i>32,991</i>	<i>34,386</i>	<i>45,038</i>	31

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
7. Cold Rolled Flat Product	973,879	667,269	716,117	586,447	666,749	14
Coil	781,266	469,419	448,546	323,506	463,986	43
Plate & Sheet	166,419	159,831	233,397	224,822	165,722	-26
Strip	26,194	38,019	34,174	38,119	37,041	-3
Value	21,387	17,253	18,056	15,216	18,828	24
8. Coated Products	460,602	542,437	556,119	885,566	895,727	1
Chromium Plate	5,451	8,058	14,385	39,916	30,752	-23
Electro Galvanized	103,508	135,725	129,088	145,435	131,125	-10
Hot dip Galvanized	227,778	256,585	302,374	360,630	462,214	28
Tinplate	88,697	98,263	62,592	111,786 ^{E2}	84,085	-25
Other	38,011	43,806	47,679	23,887	55,054	130
Zincalume/ Color Coated			-	203,911	132,497	-35
Value	12,217	14,146	14,163	18,025	21,529	19
9. Pipes & Fittings	175,583	123,427	146,034	162,497	232,664	43
Fittings	11,063	10,911	10,365	12,376	15,444	25
Seam Pipes	43,911	54,342	62,376	50,478	55,786	11
Seamless Pipes	120,609	58,175	73,293	99,644	161,434	62
Value	7,492	6,575	7,921	7,976	11,305	42
10. Sheet Piling	2,609	4,667	1,339	2,104	1,191	-43
Stainless Steel	-	0	0	-	0	-
Other Alloy Steel	-	703	-	-	0	-
Other	2,609	3,964	1,339	2,104	1,191	-43
Value	30	68	28	29	19	-35
11. Rails and Accessories	29,321	42,101	29,387	37,248	24,679	-34
Value	861	1,154	927	751	434	-42
Finished Steel Products Total^{2/}	4,039,161	4,080,822	4,444,866	4,921,999	5,654,248	15
Finished Steel Products Value^{2/}	80,078	87,471	90,789	94,912	117,505	24
Total Quantity	8,044,442	7,926,386	8,094,834	11,172,247	11,541,842	3
Total Value	107,020	117,442	120,158	146,501	178,659	22

1/ : % Changes as compared with 2002

2/ : Excludes item 1 - 4

E1 : Estimates (Source of Customs Department : Quantity of Ferro-silicon is 838,073 tonnes)

E2 : Estimates (Source of Customs Department : Quantity of Tinplate is 1,926,192 tonnes)

P : Preliminary

Table 7 Lead Import Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Scrap	49	372	142	41	45	9
<i>Value</i>	2	6	3	0	1	67
2. Unwrought	39,956	79,176	57,466	68,797	84,598	23
Lead	30,793 ^E	34,674	41,513	59,918	76,951	28
Lead alloys	9,163	44,502	15,953	8,879	7,647	-14
<i>Value</i>	898	1,342	1,306	1,465	1,892	29
3. Powders & Flakes	6	5	6	3	0	-93
<i>Value</i>	1	4	3	1	0	-80
4. Bars, Rods, Profiles & Wire	409	642	590	634	408	-36
<i>Value</i>	79	131	137	133	83	-38
5. Plates, Sheets, Strip & Foil	79	95	137	110	69	-37
<i>Value</i>	14	28	28	23	13	-42
6. Tubes, Pipes & Fittings	8	8	1	5	12	132
<i>Value</i>	1	1	0	1	1	90
Total Quantity	40,507	80,299	58,341	69,590	85,132	22
Total Value	995	1,513	1,477	1,623	1,990	23

1/ : % Changes as compared with 2002

P : Preliminary

E : Estimates (Source of Customs Department : Quantity of Lead Unwrought is 157,016 tonnes)

Table 8 Nickel Import Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Matte & Sinters	-	-	-	0	1	475
<i>Value</i>	-	-	-	0	0	122
2. Scrap	22	31	39	11	60	426
<i>Value</i>	5	11	11	4	21	508
3. Unwrought	7,056	1,872	1,411	1,721	1,903	11
Nickel	6,947	1,720	1,359	1,693	1,861	10
Nickel alloys	109	152	52	28	41	51
<i>Value</i>	269	714	459	519	718	38
4. Powders & Flakes	53	54	64	87	79	-9
<i>Value</i>	24	39	51	56	56	-1
5. Bars, Rods & Profiles	10	44	126	8	9	9
<i>Value</i>	9	19	19	10	12	28
6. Wire	134	135	236	156	5	-96
<i>Value</i>	45	63	111	74	10	-86
7. Plates, Sheets & Strip	79	88	45	284	113	-60
<i>Value</i>	52	48	27	35	29	-19
8. Foil	1	17	8	1	1	-22
<i>Value</i>	2	3	3	9	2	-78
9. Tubes, Pipes & Fittings	72	16	14	9	21	127
<i>Value</i>	3	26	58	11	32	196
Total Quantity	7,427	2,257	1,943	2,278	2,192	-4
Total Value	409	924	739	718	880	23

1/ : % Changes as compared with 2002

P : Preliminary

Table 9 Tin Import Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Scrap	16	-	-	-	-	-
<i>Value</i>	<i>1</i>	-	-	-	-	-
2. Unwrought	195	439	199	544	1,933	255
Tin	5	117	20	182	1,414	676
Tin alloys	190	322	179	362	518	43
<i>Value</i>	<i>36</i>	<i>90</i>	<i>41</i>	<i>125</i>	<i>444</i>	254
3. Powders & Flakes	2	4	5	3	6	94
<i>Value</i>	<i>1</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>2</i>	126
4. Bars, Rods, & Profiles	39	56	-	91	130	43
<i>Value</i>	<i>5</i>	<i>13</i>	-	<i>14</i>	<i>63</i>	353
5. Wire	58	157	147	206	147	-29
<i>Value</i>	<i>5</i>	<i>12</i>	<i>13</i>	<i>22</i>	<i>18</i>	-17
6. Plates, Sheets & Strip (t>0.2mm)	19	28	188	26	8	-69
<i>Value</i>	<i>1</i>	<i>3</i>	<i>9</i>	<i>4</i>	<i>4</i>	21
7. Foil	1	0	71	6	1	-91
<i>Value</i>	<i>0</i>	<i>1</i>	<i>4</i>	<i>1</i>	<i>1</i>	10
8. Tubes, Pipes & Fittings	-	6	-	-	-	-
<i>Value</i>	-	<i>8</i>	-	-	-	-
9. Other	23	45	19	7	15	100
<i>Value</i>	<i>16</i>	<i>25</i>	<i>9</i>	<i>8</i>	<i>16</i>	109
Total Quantity	353	736	629	885	2,240	153
Total Value	55	152	78	175	550	214

1/ : % Changes as compared with 2002

P : Preliminary

Table 10 Zinc Import Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Scrap	80	79	4	-	-	-
<i>Value</i>	1	2	0	-	-	-
2. Unwrought	18,689	23,832	24,049	35,980	34,029	-5
Zinc	10,209	15,304	15,698	24,477	20,944	-14
Zinc alloys	8,480	8,528	8,351	11,503	13,085	14
<i>Value</i>	864	1,206	1,131	1,285	1,220	-5
3. Dust, Powders & Flakes	755	736	894	949	1566	65
<i>Value</i>	65	64	67	61	91	51
4. Bars, Rods, & Profiles	30	63	132	232	170	-27
<i>Value</i>	3	5	9	15	18	13
5. Wire	527	730	510	579	741	28
<i>Value</i>	45	61	43	41	54	31
6. Plates, Sheets & Strip	60	34	54	120	130	8
<i>Value</i>	4	8	8	18	17	-8
7. Foil	1	-	-	3	0	-99
<i>Value</i>	0	-	-	1	0	-96
8. Tubes, Pipes & Fittings	1	9	11	3	12	240
<i>Value</i>	1	1	1	1	1	26
Total Quantity	20,143	25,482	25,654	37,867	36,648	-3
Total Value	983	1,347	1,259	1,422	1,401	-2

1/ : % Changes as compared with 2002

P : Preliminary

Table 11 Precious Metals Import Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Silver	1,027	2,163	1,015	926	1,752	89
Metal product	894	1,912	852	896	1,520	70
Jewellery	133	252	164	30	232	669
Value	3,120	3,952	4,800	5,069	8,717	72
2. Gold	1,556	1,256	297	147	158	7
Metal product	559	1,216	283	137	145	6
Jewellery	997	40	14	11	12	17
Value	14,520	25,342	40,000	38,120	34,320	-10
3. Platinum - Group^{2/}	38	30	20	5	8	71
Metal product	10	16	7	1	1	-14
Jewellery	1	14	13	3	7	148
Others ^{3/}	27	1	0	1	0	-58
Value	598	1,952	1,146	900	1,043	16
Total Quantity	2,621	3,450	1,332	1,078	1,918	78
Total Value	18,238	31,246	45,946	44,089	44,080	0

1/ : % Changes as compared with 2002

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

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

P : Preliminary

Table 12 Others Import Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Antimony	562	857	443	370	501	36
<i>Value</i>	24	39	20	20	49	149
2. Beryllium	49	23	0	6	1	-89
<i>Value</i>	3	2	1	3	1	-41
3. Bismuth	8	8	11	14	13	-5
<i>Value</i>	5	4	6	6	7	16
4. Cadmium	0	0	0	0	0	-24
<i>Value</i>	0	0	0	0	1	60
5. Chromium	8	11	19	21	23	10
<i>Value</i>	7	6	12	23	16	-31
6. Cobalt	131	204	100	83	118	42
<i>Value</i>	229	283	121	68	111	64
7. Germanium	-	-	-	0	0	100
<i>Value</i>	-	-	-	0	1	165
8. Magnesium	491	572	521	786	941	20
Unwrought	447	480	431	638	696	9
Scrap	32	28	42	118	169	43
Other	12	64	49	30	76	151
<i>Value</i>	45	55	46	65	78	21
9. Manganese	114	150	190	185	216	17
<i>Value</i>	10	12	18	13	16	29
10. Molybdenum	24	12	17	14	40	183
Powders	0	2	3	2	2	44
Wire	19	5	6	5	5	3
Other	5	5	8	7	33	342
<i>Value</i>	32	33	64	69	184	167
11. Tantalum	23	29	23	27	41	52
<i>Value</i>	450	597	674	634	826	30
12. Titanium	109	109	129	190	110	-42
<i>Value</i>	603	529	688	301	182	-40
13. Tungsten	141	230	80	97	120	23
Powders	0	8	33	41	50	24
Wire	114	14	22	25	23	-8
Other	27	208	26	32	47	45
<i>Value</i>	145	142	166	195	280	44

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
14. Vanadium	0	0	0	0	0	-
<i>Value</i>	0	0	0	0	0	115
15. Zirconium	2	31	100	169	89	-47
<i>Value</i>	4	5	8	15	10	-33
16. Other	0	0	5	5	0	-95
<i>Value</i>	3	0	7	6	2	-73
Total Quantity	1,662	2,236	1,638	1,967	2,214	179
Total Value	1,560	1,710	1,831	1,417	1,764	642

1/ : % Changes as compared with 2002

P : Preliminary

EXPORT

Table 13 Aluminium Export Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Scrap	11,065	11,503^{E1}	13,389	15,321	17,489	14
Value	449	543	658	708	735	4
2. Unwrought	4,631	6,837	5,139	9,535	6,905	-28
Aluminium	1,392	139	168	140	657	370
Aluminium alloys	3,239	6,698 ^{E2}	4,971	9,395	6,249	-33
Value	258	438	333	586	452	-23
3. Powders & Flakes	1	20	4	12	143	1,106
Value	0	1	1	2	10	520
4. Bars, Rods & Profiles	7,786	10,509	13,124	13,949	17,052	22
Aluminium	2,299	5,581	5,026	4,309	10,558	145
Aluminium alloys	5,487	4,928	8,098	9,640	6,494	-33
Value	682	795	1,085	1,020	1,224	20
5. Wire	553	72	494	167	149	-11
Aluminium	294	19	357	121	108	-11
Aluminium alloys	259	52	138	46	41	-11
Value	69	9	53	11	11	9
6. Plates, Sheets & Strip (t>0.2mm)	2,753	7,604	4,642	3,871	7,610	97
Aluminium	2,302	4,853	3,723	3,542	6,686	89
Aluminium alloys	451	2,751	919	329	925	181
Value	347	1,198	551	372	664	78
7. Foil (t<=0.2mm)	867	1,068	1,354	2,321	2,322	0
Not backed	533	739	1,041	2,022	1,924	-5
Backed	334	329	313	299	398	33
Value	136	177	282	341	346	1
8. Tubes, Pipes & Fittings	630	849	1,190	1,764	2,325	32
Tubes & Pipes	530	693	1,030	1,495	1,883	26
Fittings	100	156	159	269	442	64
Value	109	179	327	458	530	16
Total Quantity	28,286	38,461	39,336	46,941	53,996	15
Total Value	2,052	3,340	3,289	3,499	3,973	14

1/ : % Changes as compared with 2002

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 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Matte & Cement	39	39	37	-	-	-
Value	1	2	3	-	-	-
2. Scrap	15,536	18,446	26,942	22,449	54,920	145
Value	734	1,034	1,121	1,251	2,181	74
3. Unwrought	898	2,164	394	181	659	264
Copper	10	0	5	13	18	34
Copper alloys	888	2,164	389	168	641	282
Value	47	116	29	20	52	159
4. Powders & Flakes	71	181	35	50	60	19
Value	14	13	9	11	14	32
5. Bars, Rods & Profiles	7,456	8,880	10,806	9,812	7,886	-20
Copper	7,306	8,526	10,420	9,099	7,046	-23
Copper alloys	150	355	387	712	840	18
Value	637	892	1,163	907	751	-17
6. Wire	3,602	5,252	2,243	571	613	7
Copper	3,578	5,054	1,797	147	324	121
Copper alloys	24	198	446	424	289	-32
Value	284	693	273	163	168	4
7. Plates, Sheets & Strip (t>0.15 mm)	674	1,467	898	1,812	5,127	183
Copper	391	436	380	1,034	1,418	37
Copper alloys	283	1,032	519	779	3,709 ^E	376
Value	82	209	105	141	474	236
8. Foil (t=<0.15 mm)	7,731	9,005	6,944	7,862	6,762	-14
Not backed	1,374	1,945	1,736	1,443	1,251	-13
Backed	6,357	7,061	5,208	6,420	5,511	-14
Value	1,348	2,261	1,117	983	834	-15
9. Tubes, Pipes & Fittings	8,163	19,688	21,779	25,189	27,596	10
Tubes & Pipes	5,424	12,844	18,348	21,420	23,251	9
Fittings	2,739	6,844	3,431	3,769	4,346	15
Value	1,171	2,313	3,176	3,678	3,865	5
Total Quantity	44,170	65,124	70,078	67,927	103,622	53
Total Value	4,318	7,533	6,995	7,153	8,341	17

1/ : % Changes as compared with 2002

P : Preliminary

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

Table 15 Iron and Steel Export Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Pig Iron/DRI/HBI	15,316	15,787	13,562	17,100	19,172	12
Value	329	457	362	373	438	17
2. Ferro-alloys	2	1,005	121	9	26	190
Ferro-chromium	0	5	-	-	-	-
Ferro-manganese	2	0	1	-	1	-
Ferro-silico-manganese	-	-	-	-	-	-
Ferro-silicon	-	994	121	9	25	180
Other	-	5	0	-	0	-
Value	1	23	2	1	2	213
3. Scrap	76,003	99,960	102,465	87,122	117,927	35
Carbon Steel	41,121	58,712	56,332	43,870	61,808	41
Cast Iron	38	187	51	131	129	-2
Stainless Steel	27,757	29,696	35,569	39,784	51,806	30
Other Alloy Steel	2,195	2,697	3,470	3,337	4,185	25
Other	4,892	8,668	7,043	-	-	-
Value	830	1,380	1,116	1,414	2,198	55
4. Semi-Finished Products	258	33,191	9,824	1,007	84,442	8,285
Billet	41	25,331	5,478	18	62,541	355,249
Billet & Slab (>= 0.25 C)	2	0	0	-	18,344	-
Ingot	3	47	14	415	48	-88
Slab	52	11	41	1	0	-91
Other	160	7,803	4,290	573	3,508	512
Value	6	271	91	10	897	9,280
5. Long Products	426,690	613,719	732,827	536,414	568,314	6
Angles, Shapes & Sections	209,958	313,606	261,759	250,743	288,344	15
Bars	137,686	81,777	261,230	57,773	50,274	-13
Cold-drawn Bars	14,920	74,204	119,574	131,798	122,918	-7
Wire Rods	8,148	28,062	13,855	10,788	6,957	-36
Wires	55,978	116,070	76,409	85,312	99,820	17
Value	5,230	8,567	8,403	9,155	10,741	17
6. Hot Rolled Flat Product	160,245	472,845	79,826	236,520	275,923	17
Coil	134,611	435,360	50,605	216,009	253,549	17
Plate & Sheet	25,300	36,127	28,833	20,403	20,619	1
Strip	334	1,357	388	108	1,756	1,532
Value	1,704	5,348	822	3,242	3,941	22

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
7. Cold Rolled Flat Product	409,207	537,192	494,486	534,571	641,576	20
Coil	370,000	519,432	473,250	428,350	487,786	14
Plate & Sheet	29,353	10,233	19,377	105,011	151,864	45
Strip	9,854	7,527	1,859	1,211	1,926	59
Value	7,613	12,068	9,793	10,928	15,677	43
8. Coated Products	112,994	132,659	122,423	136,062	150,963	11
Chromium Plate	793	725	288	72	49	-32
Electro Galvanized	46,605	36,262	27,864	46,470	46,336	0
Hot dip Galvanized	31,923	34,508	38,714	33,451	52,627	57
Tinplate	6,135	3,850	14,071	1,540	1,061	-31
Other	27,538	57,314	41,485	19,822	10,112	-49
Zincalume/ Color Coated				34,707	40,777	17
Value	1,944	2,525	2,373	3,047	3,965	30
9. Pipes & Fittings	241,312	338,493	284,012	266,659	237,540	-11
Fittings	51,433	53,166	54,151	56,613	61,034	8
Seam Pipes	164,388	256,680	201,940	180,354	142,401	-21
Seamless Pipes	25,491	28,647	27,921	29,691	34,106	15
Value	6,926	8,640	8,732	8,498	9,308	10
10. Sheet Piling	1,329	3,729	13,328	14,139	23,749	68
Stainless Steel	212	24	58	0	49	44,236
Other Alloy Steel	-	-	0	0	0	-100
Other	1,117	3,705	13,269	14,138	23,701	68
Value	16	56	166	171	360	111
11. Rails and Accessories	776	732	1,715	1,615	1,385	-14
Value	33	27	50	77	48	-37
Finished Steel Products Total^{2/}	1,352,554	2,099,369	1,728,617	1,725,980	1,899,450	10
Finished Steel Products Value^{2/}	23,466	37,231	30,339	35,118	44,041	25
Total Quantity	1,444,133	2,249,313	1,854,589	1,831,218	2,121,016	16
Total Value	24,632	39,361	31,910	36,915	47,575	29

1/ : % Changes as compared with 2002

2/ : Excludes item 1 - 4

P : Preliminary

E1 : Estimates (Source of Customs Department : Quantity of Cold Rolled Flat Product in Coil is 6,844,286 tonnes)

Table 16 Lead Export Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%Δ ^{1/}
1. Scrap	775	788	761	819	687	-16
Value	47	53	47	44	60	36
2. Unwrought	16	169	54	1	144	12,713
Lead	2	0	12 ^{E1}	0	24	9,236
Lead alloys	14	169	42	1	120	13,740
Value	1	4	1	1	4	408
3. Powders & Flakes	38	55	0	0	-	-
Value	0	0	0	0	-	-
4. Bars, Rods, Profiles & Wire	2	2	3	10	15	60
Value	1	0	1	1	2	71
5. Plates, Sheets, Strip & Foil	1	0	6	0	8	1,841
Value	0	0	0	0	1	619
6. Tubes, Pipes & Fittings	0	5	9	0	2	1,563
Value	0	1	1	0	0	3,837
Total Quantity	832	1,019	834	830	857	3
Total Value	49	59	51	46	67	44

1/ : % Changes as compared with 2002

P : Preliminary

E1 : Estimates (Source of Customs Department : Quantity of Lead Unwrought is 5,403 tonnes)

Table 17 Nickel Export Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%D ^{1/}
1. Matte & Sinters	-	-	-	-	-	-
<i>Value</i>	-	-	-	-	-	-
2. Scrap	294	228	148	138	906	558
<i>Value</i>	15	8	5	6	82	1,164
3. Unwrought	0	-	23	0	1	100
Nickel	0	-	23	0	1	100
Nickel alloys	-	-	-	-	-	-
<i>Value</i>	0	-	7	0	0	145
4. Powders & Flakes	20	-	1	-	0	-
<i>Value</i>	0	-	0	-	0	-
5. Bars, Rods & Profiles	0	-	-	-	0	-
<i>Value</i>	2	-	-	-	0	-
6. Wire	17	0	15	0	2	2,221
<i>Value</i>	1	0	5	0	1	12,688
7. Plates, Sheets & Strip	0	1	13	6	0	-100
<i>Value</i>	1	1	4	6	8	17
8. Foil	0	1	-	-	0	-
<i>Value</i>	0	0	-	-	0	-
9. Tubes, Pipes & Fittings	13	3	1	-	4	-
<i>Value</i>	1	1	0	-	2	-
Total Quantity	345	232	200	144	912	534
Total Value	20	10	21	13	92	606

1/ : % Changes as compared with 2002

P : Preliminary

Table 18 Tin Export Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%D ^{1/}
1. Scrap	169	51	168	76	144	90
<i>Value</i>	<i>1</i>	<i>1</i>	<i>2</i>	<i>1</i>	<i>2</i>	65
2. Unwrought	12,367	13,036	18,945	12,758	9,837	-23
Tin	12,336	12,833	18,714	12,661	9,762	-23
Tin alloys	31	203	231	97	75	-23
<i>Value</i>	<i>2,491</i>	<i>2,802</i>	<i>3,649</i>	<i>2,241</i>	<i>1,989</i>	-11
3. Powders & Flakes	2	-	-	-	0	-
<i>Value</i>	<i>0</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0</i>	-
4. Bars, Rods, & Profiles	0	2	40	263	628	139
<i>Value</i>	<i>0</i>	<i>0</i>	<i>9</i>	<i>70</i>	<i>176</i>	150
5. Wire	0	-	8	0	2	3,156
<i>Value</i>	<i>0</i>	<i>-</i>	<i>0</i>	<i>0</i>	<i>1</i>	11333
6. Plates, Sheets & Strip (t>0.2mm)	59	73	40	0	-	-
<i>Value</i>	<i>7</i>	<i>8</i>	<i>4</i>	<i>0</i>	<i>-</i>	-
7. Foil	0	-	0	-	-	-
<i>Value</i>	<i>0</i>	<i>-</i>	<i>0</i>	<i>-</i>	<i>-</i>	-
8. Tubes, Pipes & Fittings	-	-	1	0	-	-
<i>Value</i>	<i>-</i>	<i>-</i>	<i>0</i>	<i>0</i>	<i>-</i>	-
9. Other	314	567	553	420	431	3
<i>Value</i>	<i>207</i>	<i>240</i>	<i>240</i>	<i>222</i>	<i>230</i>	3
Total Quantity	12,597	13,730	19,755	13,516	11,042	-18
Total Value	2,706	3,051	3,904	2,536	2,398	-5

1/ : % Changes as compared with 2002

P : Preliminary

Table 19 Zinc Export Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%D ^{1/}
1. Scrap	873	448	510	1,077	1,736	61
<i>Value</i>	8	7	8	26	40	51
2. Unwrought	30,658	26,062	66,191	20,334	24,044	18
Zinc	21,959	18,758	60,369	9,170	7,902	-14
Zinc alloys	8,699	7,305	5,823	11,163	16,142	45
<i>Value</i>	1,251	1,230	1,124	756	897	19
3. Dust, Powders & Flakes	308	163	96	748	1,172	57
<i>Value</i>	6	3	3	14	16	14
4. Bars, Rods, & Profiles	-	-	17	157	17	-89
<i>Value</i>	-	-	1	5	1	-90
5. Wire	89	77	29	21	129	527
<i>Value</i>	3	1	1	0	3	565
6. Plates, Sheets & Strip	7,967	6,829	3,973	6,516	11,277	73
<i>Value</i>	199	140	95	134	274	104
7. Foil	4	-	0	-	0	-
<i>Value</i>	0	-	0	-	0	-
8. Tubes, Pipes & Fittings	281	331	601	422	451	7
<i>Value</i>	50	57	74	49	55	10
Total Quantity	40,180	33,910	71,401	29,118	38,809	33
Total Value	1,517	1,438	1,305	980	1,284	31

1/ : % Changes as compared with 2002

P : Preliminary

Table 20 Precious Metals Export Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%D ^{1/}
1. Silver	6,224	77,817	2,427	1,973	2,227	13
Metal product	9	600	2,418	1,909	201	-89
Jewellery	6,215	77,217	9	64	2,027	3,049
Value	8,707	10,289	12,287	13,904	17,502	26
2. Gold	210	2,716	259	86	215	150
Metal product	19	7	5	42 ^{E1}	49	-88
Jewellery	191	2,709	254	86	124	45
Value	28,394	23,191	31,143	38,771	46,161	19
3. Platinum - Group^{2/}	16	26	15	6	17	174
Metal product	1	3	0	0	0	-73
Jewellery	15	23	14	6	17	189
Others ^{3/}	0	0	0	-	0	-
Value	1,451	692	1,566	542	664	22
Total Quantity	6,450	80,559	2,701	2,065	2,459	19
Total Value	38,552	34,172	44,996	53,218	64,327	21

1/ : % Changes as compared with 2002

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

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

E1 : Estimates (Source of Customs Department : Quantity of Gold Metal Products is 1,874 tonnes)

P : Preliminary

Table 21 Others Export Statistics 1999 - 2003

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002 ^P	2003 ^P	%D ^{1/}
1. Antimony	47	193	130	123	370	202
Value	3	13	6	12	34	181
2. Beryllium	0	0	-	-	-	-
Value	0	0	-	-	-	-
3. Bismuth	-	-	-	-	-	-
Value	-	-	-	-	-	-
4. Cadmium	1	19	-	2	1	-57
Value	0	0	-	0	0	-52
5. Chromium	0	0	-	-	0	-
Value	0	0	-	-	0	-
6. Cobalt	15	46	0	0	0	-5
Value	1	3	0	1	0	-81
7. Germanium	-	-	-	-	-	-
Value	-	-	-	-	-	-
8. Magnesium	126	0	35	3	30	833
Unwrought	-	-	-	-	30	-
Scrap	126	-	20	-	-	-
Other	-	-	15	3	0	-99
Value	0	-	3	0	2	670
9. Manganese	20	1	-	-	-	-
Value	1	0	-	-	-	-
10. Molybdenum	101	0	0	0	0	0
Powders	0	-	-	0	-	-
Wire	101	0	-	-	-	-
Other	0	-	0	-	0	-
Value	4	1	0	0	1	1,746
11. Tantalum	78	156	81	265	108	-59
Value	763	2,185	1,550	1,976	1,288	-35
12. Titanium	1	4	3	8	4	-50
Value	9	29	9	24	16	-33
13. Tungsten	21	5	6	16	21	36
Powders	19	2	1	11	6	-51
Wire	1	0	0	0	0	992
Other	1	3	4	4	16	256
Value	1	2	4	13	26	99

DOMESTIC PRICE

Table 22 Metals Domestic Price Statistics 2003

Unit : Baht/Kg.

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1. Aluminium	71	71	71	69	67	68	69	70	71	70	70	72	70
2. Antimony	110	120	120	120	130	100	110	110	120	120	110	110	115
3. Brass	53	57	57	52	50	55	54	55	60	67	67	70	58
4. Copper	85	90	90	87	85	90	85	85	85	90	100	120	91
5. Gold^{1/}	462	468	445	430	456	452	446	455	465	458	472	491	458
6. Lead	25	25	25	25	24	24	26	27	27	30	31	35	27
7. Nickel	360	400	400	340	310	400	320	380	420	400	450	550	394
8. Tin	204	225	225	250	210	220	220	220	220	230	235	275	228
9. Zinc	44	47	46	44	43	43	45	46	45	47	46	49	45

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 2003

Unit : Baht/Kg.

ITEM	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1. Scrap^{1/}	5.44	5.96	6.66	6.89	6.52	5.91	5.89	6.35	6.85	6.71	6.87	7.58	6.47
2. Round Bars SR.24 Ø 6 mm.	14.34	15.38	16.37	16.35	15.74	15.40	15.38	15.70	15.44	15.69	16.02	17.07	15.74
3. Round Bars SR.24 Ø 12 mm.	13.11	13.96	15.08	15.12	14.57	14.21	14.20	14.46	14.34	14.43	14.90	15.95	14.53
4. Deformed Bars SD.30 Ø 12	13.00	13.85	15.06	14.87	14.44	14.11	14.14	14.25	14.13	14.19	14.44	15.74	14.35
5. Deformed Bars SD.40 Ø 12	12.97	14.02	15.12	15.20	14.67	14.29	14.18	14.38	14.35	14.45	14.71	16.21	14.55
6. Angle (Size 40x40x3 mm.)	15.21	16.57	17.62	17.27	16.94	16.27	16.33	16.48	16.48	16.36	16.36	16.82	16.56
7. Channel (Size 75x40 mm	14.77	16.20	16.64	15.86	15.58	15.30	15.39	15.59	15.59	15.81	15.81	16.33	15.74
8. Wires (No. 18)	20.57	21.50	22.54	22.25	21.75	20.18	20.18	20.85	20.89	21.38	21.38	22.17	21.30
9. P.C. WIRE	27.33	27.33	29.00	29.00	29.00	29.00	29.33	29.83	29.83	29.83	29.83	29.83	29.10
10. P.C. STRAND	28.33	28.33	30.00	30.00	30.00	30.00	30.33	30.83	30.83	30.83	30.83	30.83	30.10
11. HR coil	15.98	16.96	17.37	17.52	16.79	16.44	16.64	17.34	17.66	17.32	17.32	18.00	17.11

Source: 1/ Entrepreneur

: Bureau of Trade and Economic Indicies

APPENDIX I

METALS WORLD PRICE STATISTICS

Table I-1 Aluminium World Price Statistics 1990-2003

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1990	1,528	1,454	1,567	1,526	1,527	1,566	1,571	1,782	2,067	1,946	1,618	1,522	1,640
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	1,557	1,431

Source : London Metal Exchange (LME)

Table I-2 Antimony World Price Statistics 1990-2003

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1990	-	-	-	-	-	-	-	-	-	-	-	-	-
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

Source : MB Free Market

Table I-3 Cadmium (99.99%) World Price Statistics 1990-2003

Unit : US\$/Pound

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1990	-	-	-	-	-	-	-	-	-	-	-	-	-
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
2002	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.69	0.65	0.60	0.78

Source : MB Free Market

Table I-4 Copper World Price Statistics 1990-2003

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1990	2,367	2,360	2,625	2,685	2,741	2,584	2,767	2,953	3,029	2,745	2,585	2,488	2,661
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

Source : London Metal Exchange (LME)

Table I-5 Gold World Price Statistics 1990-2003

Unit : US\$/Troy Oz.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1990	410	417	394	375	369	353	362	395	390	381	382	378	384
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

Source : London Metal Exchange (LME)

: *World Gold Council

Table I-6 Lead World Price Statistics 1990-2003

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1990	708	779	1,059	835	825	837	874	874	838	761	701	625	810
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

Source : London Metal Exchange (LME)

Table I-7 Nickel World Price Statistics 1990-2003

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1990	7,056	6,977	9,267	8,939	8,698	8,422	9,318	10,957	10,844	9,145	8,587	8,158	8,864
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

Source : London Metal Exchange (LME)

Table I-8 Platinum World Price Statistics 1990-2003

Unit : US\$/Troy Oz.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1990	498	516	497	478	488	481	479	492	463	424	421	421	472
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

Source : London Metal Exchange (LME)

: *Kitco Inc.

Table I-9 Palladium World Price Statistics 1990-2003

Unit : US\$/Troy Oz.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1990	135	136	130	127	120	116	117	116	106	96	94	90	115
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

Source : London Metal Exchange (LME)

: *Kitco Inc.

Table I-10 Silver World Price Statistics 1990-2003

Unit : US\$/Troy Oz.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1990	5.25	5.29	5.08	5.06	5.07	4.92	4.87	5.00	4.80	4.39	4.17	4.08	4.83
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

Source : London Metal Exchange (LME)

: *Kitco Inc.

Table I-11 Steel World Price Statistics 2003

Unit : US\$/Metric Ton

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
US Steel Import													
Rebar													
Min	250	255	260	280	na	na	280	280	280	296	300	na	276
Max	270	275	280	300	na	na	300	300	300	320	321	320	299
Merchant bars													
Min	280	280	280	300	300	300	300	300	300	324	348	350	305
Max	300	300	300	na	na	na	na	na	na	360	368	370	333
Wire rod													
Min	260	270	280	300	292	260	260	280	280	296	315	320	284
Max	280	290	300	320	na	280	280	300	300	324	330	330	303
CR coil													
Min	430	na	na	na	na	na	350	350	350	350	350	na	363
Max	na	na	na	na	na	na	na	na	na	na	na	na	na
HR coil													
Min	300	300	300	na	na	na	265	265	265	296	305	330	292
Max	320	na	na	na	na	na	na	na	na	306	na	na	313
Galvanized coil													
Min	470	470	na	na	na	na	na	390	390	390	390	na	417
Max	na	na	na	na	na	na	na	na	na	na	na	na	na
China													
Slab													
Min	270	275	286	258	237	236	250	267	278	280	280	305	269
Max	280	285	291	270	247	244	255	271	282	285	285	310	275
Billet													
Min	233	254	280	260	240	243	260	252	263	275	275	298	261
Max	239	259	285	269	245	249	270	262	274	285	285	308	269
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	418	446	477	392	352	379	412	410	416	420	420	435	415
Max	430	463	490	420	372	393	423	437	431	430	430	350	422
HR coil													
Min	313	341	334	277	248	260	307	302	313	320	320	353	307
Max	333	350	340	300	266	283	323	317	324	330	330	360	321

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Latin America													
Wire rods													
Min	245	250	275	275	267	265	265	275	275	275	275	275	268
Max	268	275	300	300	292	290	290	290	290	290	290	290	289
HR coil													
Min	285	285	295	295	289	280	280	280	280	280	280	280	284
Max	295	295	305	305	299	290	290	295	300	300	300	300	298
CR coil													
Min	355	355	370	370	372	375	375	378	388	390	390	390	376
Max	385	385	390	390	390	390	390	395	400	400	400	400	393
Galvanized coil													
Min	435	435	445	445	428	420	420	439	440	440	440	440	436
Max	455	455	465	465	448	440	440	459	460	460	460	460	456
CIS*													
Slab													
Min	225	228	235	235	235	235	232	235	235	235	245	289	239
Max	235	238	245	245	245	245	242	245	245	245	253	303	249
Billet													
Min	213	233	252	240	215	213	220	235	235	243	252	278	236
Max	223	243	262	250	225	221	231	245	245	253	261	290	246
Rebars													
Min	210	240	266	258	250	253	255	255	255	267	281	295	257
Max	224	250	276	266	260	265	266	265	265	277	291	306	268
Wire rods													
Min	230	250	266	263	255	255	255	255	255	275	277	283	260
Max	240	260	278	271	265	265	265	265	265	285	287	300	271
CR coil													
Min	359	377	408	366	340	323	334	360	367	370	382	413	367
Max	401	437	260	412	378	353	360	380	387	390	402	433	383
HR coil													
Min	283	293	299	256	233	225	244	270	277	284	291	316	273
Max	308	323	325	276	253	245	264	290	297	300	308	336	294
Brussel													
Merchant bars													
Min	310	313	310	305	305	305	305	305	305	309	310	310	308
Max	315	318	320	315	315	315	315	315	315	319	320	320	317
Wire rod													
Min	309	306	300	300	310	310	310	310	310	310	310	310	308
Max	315	315	310	310	320	320	317	315	315	320	320	320	316

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
CR coil													
Min	380	388	391	375	390	385	380	380	377	386	390	390	384
Max	390	398	401	404	400	395	390	390	387	396	400	400	396
ECSC**													
Merchant bars													
Min	271	280	283	310	310	310	310	310	310	310	310	310	302
Max	301	310	313	340	338	326	320	320	320	320	320	320	321
Wire rod													
Min	256	290	292	310	310	310	310	310	310	310	310	310	302
Max	271	310	312	330	330	326	320	320	320	320	320	320	317
HR coil													
Min	295	297	299	285	273	263	266	284	285	286	293	295	285
Max	315	321	324	310	292	278	281	299	300	302	310	315	304
CR coil													
Min	371	381	389	386	373	367	366	379	382	385	385	390	380
Max	401	420	429	424	402	388	381	395	397	401	405	415	405
Galvanized coil													
Min	438	444	445	435	408	402	400	400	400	402	410	415	417
Max	480	484	485	472	443	437	435	435	437	440	440	445	453

Source : Metal Bulletin

* : Commonwealth of Independent States

** : European Coal and Steel Community

Table I-12 Tin World Price Statistics 1990-2003

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1990	6,651	6,258	6,421	6,521	6,429	6,169	6,009	6,003	5,842	6,215	6,131	5,700	6,196
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	4,443	4,634	4,617	4,581	4,730	4,725	4,748	4,818	4,873	4,982	5,283	6,287	4,893

Source : London Metal Exchange (LME)

Table I-13 Zinc World Price Statistics 1990-2003

Unit : US\$/Metric Ton

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1990	1,293	1,395	1,666	1,686	1,775	1,715	1,637	1,615	1,538	1,353	1,278	1,265	1,518
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

Source : London Metal Exchange (LME)