

**Statistics Report
No. BPI 34/2004**

**THAILAND
METAL STATISTICS YEAR 2004 (JAN-JUN)**

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

**Statistics Report
No. BPI 34/2004**

**THAILAND
METAL STATISTICS YEAR 2004 (JAN-JUN)**

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PREFACE

The publication of metal statistics entitled "Thailand Metal Statistics Year 2004 (Jan-Jun)" 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

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OVERALL

Table 1 Overall Metal Production Statistics 2002-2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	Quantities			Value ^E		
	2002	2003	2004 (Jan-Jun)	2002	2003	2004 (Jan-Jun)
1. Antimony	0	12	0	0	1	0
2. Lead	42,900	45,300	25,900	800	930	803
3. Steel^{1/}	9,460	10,236	6,066	137,200	186,500	131,500
4. Tantalum Powder	102	168	153	1,450	2,190	1,989
5. Tin	18,600	15,400	9,700	3,150	3,100	2,920
6. Zinc	104,800	116,400	55,000	3,440	3,850	2,035
7. Gold and Silver	23.0	16.8	9.0	2,235	2,184	1,492
- Gold	4.9	4.3	2.8	2,123	2,077	1,450
- Silver	18.0	12.5	6.2	112	107	42

1/ : Unit in 1,000 Tonnes

E : Estimate

PRODUCTION

Table 2 Nonferrous Production Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

ITEM	1999	2000	2001	2002	2003	2004 (Jan-Jun)
1. Antimony	40	16	12	0	12	0
2. Lead	26,800	27,200	30,000	42,900	45,300	25,900
3. Tantalum Powder	100	210	150	102	168	153
4. Tin	17,300	17,100	22,900	18,600	15,400	9,700
5. Zinc	97,300	101,100	104,300	104,800	116,400	55,000
6. Gold and Silver	-	-	1.5	23.0	16.8	9.0
- Gold			0.3	4.9	4.3	2.8
- Silver			1.2	18.0	12.5	6.2

Table 3 Steel Production Statistics 2000 - 2004 (Jan-Jun)

Unit : 1,000 Tonnes

ITEM	1999	2000	2001	2002	2003	2004 (Jan-Jun)
1. Semi-finished Products	1,474	1,648	1,711	2,008	2,472	1,883
2. Long Products ^{E1}	2,046	2,210	2,500	3,343	3,534	2,600
3. Flat Products	2,557	3,660	3,358	4,617	5,246	2,658
Hot-Rolled Coils	1,560	2,243	1,895	2,952	3,321	1,710
Hot-Rolled Plates						
Cold-Rolled Coils	997	1,417	1,464	1,665	1,925	948
4. Others Products ^{1/}	17	25	46	46	24	6
5. Coated Steel	797	878	825	944	997	564
Tinplates	250	208	212	244	274	180
Tin Free Steel	116	100	104	109	137	70
Galvanized Sheets	287	385	326	444	468	249
Zincalume, Colorbond, ShutterEx and Paint	144	186	183	147	119	65
6. Pipes & Tubes ^{E2}	640	900	480	513	435	238
Steel Products Total^{2/}	6,057	7,673	7,210	9,462	10,236	6,066

1/ : Electric Arc Furnace - EAF

2/ : Excludes Item 1

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

E2 : Estimates

IMPORT

Table 4 Aluminium Import Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Scrap	7,156	11,485	13,126	17,602	22,364	11,911
<i>Value</i>	<i>304</i>	<i>569</i>	<i>699</i>	<i>890</i>	<i>1,158</i>	<i>673</i>
2. Unwrought	159,635	236,949	234,692	259,324	330,317	142,350
Aluminium	82,393	113,133	125,858	124,554	144,159	44,389 ^{E2}
Aluminium alloys	77,242	123,816 ^{E1}	108,834	134,769	186,158	97,961
<i>Value</i>	<i>9,664</i>	<i>14,280</i>	<i>17,122</i>	<i>16,343</i>	<i>20,128</i>	<i>13,459</i>
3. Powders & Flakes	232	581	580	671	864	491
<i>Value</i>	<i>44</i>	<i>59</i>	<i>64</i>	<i>62</i>	<i>78</i>	<i>33</i>
4. Bars, Rods & Profiles	3,084	3,911	3,416	2,615	4,278	1,652
Aluminium	334	1,503	1,609	432	641	316
Aluminium alloys	2,750	2,408	1,807	2,184	3,638	1,336
<i>Value</i>	<i>398</i>	<i>499</i>	<i>431</i>	<i>359</i>	<i>575</i>	<i>264</i>
5. Wire	2,357	2,360	2,528	2,741	2,634	1,845
Aluminium	511	270	231	205	308	110
Aluminium alloys	1,846	2,090	2,297	2,536	2,326	1,735
<i>Value</i>	<i>291</i>	<i>367</i>	<i>356</i>	<i>314</i>	<i>311</i>	<i>203</i>
6. Plates, Sheets & Strip (t>0.2mm)	40,534	56,680	56,166	61,025	70,755	40,060
Aluminium	13,743	16,392	7,124	7,612	7,930	5,230
Aluminium alloys	26,792	40,289	49,042	53,413	62,825	34,829
<i>Value</i>	<i>4,390</i>	<i>6,169</i>	<i>6,689</i>	<i>6,805</i>	<i>7,804</i>	<i>4,466</i>
7. Foil (t<=0.2mm)	80,989	17,950	20,407	21,686	26,571	17,506
Not backed	79,172	15,245	16,457	17,574	22,278	14,779
Backed	1,817	2,706	3,950	4,112	4,293	2,727
<i>Value</i>	<i>2,888</i>	<i>3,387</i>	<i>3,683</i>	<i>3,693</i>	<i>4,290</i>	<i>2,800</i>
8. Tubes, Pipes & Fittings	1,732	2,140	1,866	2,160	2,391	1,433
Tubes & Pipes	1,629	2,024	1,746	1,843	2,191	1,315
Fittings	103	115	120	317	200	118
<i>Value</i>	<i>551</i>	<i>599</i>	<i>786</i>	<i>742</i>	<i>890</i>	<i>523</i>
Total Quantity	295,720	332,057	332,781	367,824	460,174	217,247
Total Value	18,530	25,930	29,830	29,209	35,234	22,420

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 1,099,829 tonnes)

Table 5 Copper Import Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Matte & Cement	-	0	15	176	1	0
Value	-	0	3	3	0	0
2. Scrap	2,949	4,358	4,210	4,245	4,757	4,026
Value	138	247	287	208	360	379
3. Unwrought	123,283	159,067	175,331	195,465	217,016	154,124
Copper	117,465	150,864	166,795	186,633	205,187	127,149
Copper alloys	5,818	8,203	8,535	8,832	11,829	6,873 ^E
Value	7,853	11,990	13,693	14,153	16,243	14,620
4. Powders & Flakes	735	570	450	559	587	304
Value	62	79	80	101	118	69
5. Bars, Rods & Profiles	3,446	3,759	4,074	6,202	7,705	4,051
Copper	225	669	407	671	934	623
Copper alloys	3,221	3,089	3,666	5,530	6,771	3,429
Value	382	488	513	692	888	678
6. Wire	33,909	28,799	26,680	36,362	45,421	26,992
Copper	31,079	25,379	23,140	31,792	41,128	25,533
Copper alloys	2,830	3,420	3,540	4,570	4,293	1,459
Value	2,332	2,809	2,632	2,837	4,171	3,259
7. Plates, Sheets & Strip (t>0.15 mm)	14,266	19,875	18,170	26,365	28,732	17,641
Copper	2,198	5,591	5,828	8,058	8,594	5,522
Copper alloys	12,068	14,284	12,342	18,308	20,139	12,119
Value	2,375	3,470	3,968	3,956	4,585	3,313
8. Foil (t<=0.15 mm)	14,061	14,110	12,102	14,154	14,517	8,185
Not backed	8,036	6,272	6,111	5,870	6,725	3,955
Backed	6,025	7,838	5,991	8,284	7,791	4,230
Value	2,961	3,331	2,826	2,881	3,524	1,974
9. Tubes, Pipes & Fittings	12,617	8,453	10,585	9,619	11,578	6,819
Tubes & Pipes	12,449	8,139	10,190	9,365	11,172	6,527
Fittings	168	314	396	254	406	292
Value	1,315	1,403	1,863	1,649	1,953	1,231
Total Quantity	205,266	238,992	251,616	293,148	330,314	222,143
Total Value	17,418	23,817	25,865	26,481	31,844	25,523

P : Preliminary

E : Estimates (Source of Customs Department : Quantity of Copper alloys unwrought from Australia under code 7403290007 is 20,122 tonnes)

Table 6 Iron and Steel Import Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Pig Iron/DRI/HBI	139,450	312,764	113,478	203,968	369,589	306,261
<i>Value</i>	<i>1,009</i>	<i>1,910</i>	<i>987</i>	<i>1,586</i>	<i>3,216</i>	<i>3,482</i>
2. Ferro-alloys	45,174	54,617	48,185	54,457	72,017	44,627
Ferro-chromium	3,976	7,188	4,218	5,471	8,628	5,260
Ferro-manganese	5,527	7,211	6,593	7,221	8,070	4,331
Ferro-silicon	14,910	17,506	17,291	18,223	26,423	14,896
Ferro-silicon-manganese	19,148	20,859	19,040	22,047	27,511	19,158
Other	1,613	1,853	1,043	1,495	1,385	981
<i>Value</i>	<i>1,111</i>	<i>1,281</i>	<i>1,231</i>	<i>1,326</i>	<i>1,834</i>	<i>1,746</i>
3. Scrap	629,698	741,332	696,512	977,555	1,279,889	780,214
Carbon Steel	612,235	706,587	636,004	945,155	1,220,880	708,602
Cast Iron	758	144	65	197	13,463	26,228
Stainless Steel	693	7,660	343	4,038	3,970	2,369
Other Alloy Steel	14,658	25,464	52,280	28,090	41,562	42,975
Other	1,354	1,476	7,821	75	15	40
<i>Value</i>	<i>3,578</i>	<i>4,642</i>	<i>4,675</i>	<i>6,697</i>	<i>9,926</i>	<i>8,897</i>
4. Semi-Finished Products	3,190,959	2,736,852	2,791,793	5,014,269	4,166,099	2,499,500
Billet	861,662	602,584	1,044,638	1,759,849	1,619,441	1,146,117
Billet & Slab (>= 0.25 C)	312,450	110,006	180,475	250,427	313,445	342,001
Ingot	361	139	255	719	2,009	415
Slab	1,926,176	1,818,973	1,492,175	2,939,626	2,173,120	974,333
Other	90,310	205,150	74,250	63,649	58,083	36,634
<i>Value</i>	<i>21,244</i>	<i>22,137</i>	<i>22,476</i>	<i>41,979</i>	<i>46,177</i>	<i>34,956</i>
5. Long Products	559,672	625,922	623,088	822,073	843,077	459,995
Angles, Shapes & Sections	25,249	58,719	35,110	14,027	20,262	11,223
Bars	129,664	171,300	183,006	239,440	268,056	165,486
Cold-drawn Bars	14,211	21,610	21,048	21,152	39,203	22,231
Wire Rods	334,456	323,388	329,709	473,352	443,191	215,997
Wires	56,092	50,905	54,215	74,101	72,364	45,058
<i>Value</i>	<i>13,083</i>	<i>16,009</i>	<i>16,703</i>	<i>18,528</i>	<i>20,353</i>	<i>12,924</i>
6. Hot Rolled Flat Product	1,837,495	2,074,998	2,372,782	2,426,063	2,990,162	1,283,936
Coil	1,716,425	1,929,829	2,176,596	2,281,682	2,565,333	1,218,975
Plate & Sheet	116,113	138,170	189,975	138,958	418,366	61,737
Strip	4,957	7,000	6,212	5,422	6,463	3,224
<i>Value</i>	<i>25,008</i>	<i>32,267</i>	<i>32,991</i>	<i>34,386</i>	<i>45,038</i>	<i>26,338</i>

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
7. Cold Rolled Flat Product	973,879	667,269	716,117	586,447	666,749	361,419
Coil	781,266	469,419	448,546	323,506	463,986	248,658
Plate & Sheet	166,419	159,831	233,397	224,822	165,722	88,729
Strip	26,194	38,019	34,174	38,119	37,041	24,031
Value	21,387	17,253	18,056	15,216	18,828	10,813
8. Coated Products	460,602	542,437	556,119	885,420	895,727	505,883
Chromium Plate	5,451	8,058	14,385	39,916	30,752	15,887
Electro Galvanized	103,508	135,725	129,088	145,435	131,125	54,258
Hot dip Galvanized	227,778	256,585	302,374	360,630	462,214	246,468
Tinplate	88,697	98,263	62,592	111,640	84,085	59,692
Other	38,011	43,806	47,679	23,887	55,054	56,803
Zincalume/ Color Coated			-	203,911	132,497	72,774
Value	12,217	14,146	14,163	18,025	21,529	13,460
9. Pipes & Fittings	175,583	123,427	146,034	162,497	232,664	289,956
Fittings	11,063	10,911	10,365	12,376	15,444	8,851
Seam Pipes	43,911	54,342	62,376	50,478	55,786	54,755
Seamless Pipes	120,609	58,175	73,293	99,644	161,434	226,350 ^E
Value	7,492	6,575	7,921	7,976	11,305	10,438
10. Sheet Piling	2,609	4,667	1,339	2,104	1,191	598
Stainless Steel	-	0	0	-	0	-
Other Alloy Steel	-	703	-	-	0	-
Other	2,609	3,964	1,339	2,104	1,191	598
Value	30	68	28	29	19	11
11. Rails and Accessories	29,321	42,101	29,387	37,248	24,679	8,865
Value	861	1,154	927	751	434	137
Finished Steel Products Total^{1/}	4,039,161	4,080,822	4,444,866	4,921,853	5,654,248	2,910,652
Finished Steel Products Value^{1/}	80,078	87,471	90,789	94,912	117,505	74,121
Total Quantity	8,044,442	7,926,386	8,094,834	11,172,101	11,541,842	6,541,254
Total Value	107,020	117,442	120,158	146,501	178,659	123,202

1/ : Excludes item 1 - 4

P : Preliminary

E : Estimates (Source of Customs Department : Quantity of Seamless Pipes from Japan under code 7304100001 is 296,763 tonnes)

Table 7 Lead Import Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Scrap	49	372	142	41	45	7
<i>Value</i>	2	6	3	0	1	1
2. Unwrought	39,956	79,176	57,466	68,797	84,598	39,716
Lead	30,793 ^E	34,674	41,513	59,918	76,951	36,918
Lead alloys	9,163	44,502	15,953	8,879	7,647	2,798
<i>Value</i>	898	1,342	1,306	1,465	1,892	1,424
3. Powders & Flakes	6	5	6	3	0	2
<i>Value</i>	1	4	3	1	0	0
4. Bars, Rods, Profiles & Wire	409	642	590	634	408	251
<i>Value</i>	79	131	137	133	83	74
5. Plates, Sheets, Strip & Foil	79	95	137	110	69	65
<i>Value</i>	14	28	28	23	13	12
6. Tubes, Pipes & Fittings	8	8	1	5	12	2
<i>Value</i>	1	1	0	1	1	0
Total Quantity	40,507	80,299	58,341	69,590	85,132	40,044
Total Value	995	1,513	1,477	1,623	1,990	1,512

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 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Matte & Sinters	-	-	-	0	1	0
<i>Value</i>	-	-	-	0	0	0
2. Scrap	22	31	39	11	60	30
<i>Value</i>	5	11	11	4	21	18
3. Unwrought	7,056	1,872	1,411	1,721	1,903	1,275
Nickel	6,947	1,720	1,359	1,693	1,861	1,252
Nickel alloys	109	152	52	28	41	23
<i>Value</i>	269	714	459	519	718	718
4. Powders & Flakes	53	54	64	87	79	55
<i>Value</i>	24	39	51	56	56	42
5. Bars, Rods & Profiles	10	44	126	8	9	8
<i>Value</i>	9	19	19	10	12	9
6. Wire	134	135	236	156	259	89
<i>Value</i>	45	63	111	74	121	51
7. Plates, Sheets & Strip	79	88	45	284	113	49
<i>Value</i>	52	48	27	35	29	21
8. Foil	1	17	8	1	1	0
<i>Value</i>	2	3	3	9	2	1
9. Tubes, Pipes & Fittings	72	16	14	9	21	29
<i>Value</i>	3	26	58	11	32	22
Total Quantity	7,427	2,257	1,943	2,278	2,445	1,535

1/ : % Changes as compared with 2002

P : Preliminary

Table 9 Tin Import Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Scrap	16	-	-	-	-	2
<i>Value</i>	1	-	-	-	-	0
2. Unwrought	195	439	199	544	1,933	4,478
Tin	5	117	20	182	1,414	4,343
Tin alloys	190	322	179	362	518	135
<i>Value</i>	36	90	41	125	444	1,447
3. Powders & Flakes	2	4	5	3	6	1
<i>Value</i>	1	1	2	1	2	0
4. Bars, Rods, & Profiles	39	56	-	91	130	90
<i>Value</i>	5	13	-	14	63	50
5. Wire	58	157	147	206	147	79
<i>Value</i>	5	12	13	22	18	8
6. Plates, Sheets & Strip (t>0.2mm)	19	28	188	26	8	10
<i>Value</i>	1	3	9	4	4	6
7. Foil	1	0	71	6	1	1
<i>Value</i>	0	1	4	1	1	0
8. Tubes, Pipes & Fittings	-	6	-	-	-	-
<i>Value</i>	-	8	-	-	-	-
9. Other	23	45	19	7	15	19
<i>Value</i>	16	25	9	8	16	17
Total Value	55	152	78	175	550	1,528

1/ : % Changes as compared with 2002

P : Preliminary

Table 10 Zinc Import Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Scrap	80	79	4	-	-	14
<i>Value</i>	1	2	0	-	-	0
2. Unwrought	18,689	23,832	24,049	35,980	34,029	25,381
Zinc	10,209	15,304	15,698	24,477	20,944	19,245
Zinc alloys	8,480	8,528	8,351	11,503	13,085	6,136
<i>Value</i>	864	1,206	1,131	1,285	1,220	1,183
3. Dust, Powders & Flakes	755	736	894	949	1,566	804
<i>Value</i>	65	64	67	61	91	52
4. Bars, Rods, & Profiles	30	63	132	232	170	81
<i>Value</i>	3	5	9	15	18	27
5. Wire	527	730	510	579	741	449
<i>Value</i>	45	61	43	41	54	33
6. Plates, Sheets & Strip	60	34	54	120	130	243
<i>Value</i>	4	8	8	18	17	25
7. Foil	1	-	-	3	0	3
<i>Value</i>	0	-	-	1	0	2
8. Tubes, Pipes & Fittings	1	9	11	3	12	7
Total Quantity	20,143	25,482	25,654	37,867	36,648	26,982
Total Value	983	1,347	1,259	1,422	1,401	1,324

1/ : % Changes as compared with 2002

P : Preliminary

Table 11 Precious Metals Import Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Silver	1,027	2,163	1,015	926	1,752	770
Metal product	894	1,912	852	896	1,520	706
Jewellery	133	252	164	30	232	64
Value	3,120	3,952	4,800	5,069	8,717	5,513
2. Gold	1,556	1,256	297	147	158	77
Metal product	559	1,216	283	137	145	72
Jewellery	997	40	14	11	12	5
Value	14,520	25,342	40,000	38,120	34,320	27,796
3. Platinum - Group^{1/}	38	30	20	5	8	10
Metal product	10	16	7	1	1	0
Jewellery	1	14	13	3	7	8
Value	598	1,952	1,146	900	1,043	572
Total Quantity	2,621	3,450	1,332	1,078	1,918	857
Total Value	18,238	31,246	45,946	44,089	44,080	33,881

1/ : % Changes as compared with 2002

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

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

P : Preliminary

Table 12 Others Import Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Antimony	562	857	443	370	501	428
Value	24	39	20	20	49	47
2. Beryllium	49	23	0	6	1	0
Value	3	2	1	3	1	1
3. Bismuth	8	8	11	14	13	6
Value	5	4	6	6	7	3
4. Cadmium	0	0	0	0	0	0
Value	0	0	0	0	1	0
5. Chromium	8	11	19	21	23	17
Value	7	6	12	23	16	13
6. Cobalt	131	204	100	83	118	62
Value	229	283	121	68	111	112
7. Germanium	-	-	-	0	0	0
Value	-	-	-	0	1	0
8. Magnesium	491	572	521	786	941	577
Unwrought	447	480	431	638	696	416
Scrap	32	28	42	118	169	142
Other	12	64	49	30	76	19
Value	45	55	46	65	78	55
9. Manganese	114	150	190	185	216	116
Value	10	12	18	13	16	9
10. Molybdenum	24	12	17	14	40	25
Powders	0	2	3	2	2	1
Wire	19	5	6	5	5	4
Other	5	5	8	7	33	19
Value	32	33	64	69	184	69
11. Tantalum	23	29	23	27	41	42
Value	450	597	674	634	826	583
12. Titanium	109	109	129	190	110	44
Value	603	529	688	301	182	202
13. Tungsten	141	230	80	97	120	71
Powders	0	8	33	41	50	28
Wire	114	14	22	25	23	15
Other	27	208	26	32	47	29
Value	145	142	166	195	280	174

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
14. Vanadium	0	0	0	0	0	0
<i>Value</i>	0	0	0	0	0	0
15. Zirconium	2	31	100	169	89	45
<i>Value</i>	4	5	8	15	10	5
<i>Value</i>	3	0	7	6	2	2
Total Quantity	1,662	2,236	1,638	1,967	2,214	1,433
Total Value	1,560	1,710	1,831	1,417	1,764	1,275

1/ : % Changes as compared with 2002

P : Preliminary

EXPORT

Table 13 Aluminium Export Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Scrap	11,065	11,503^{E1}	13,389	15,321	17,489	10,583
Value	449	543	658	708	735	459
2. Unwrought	4,631	6,837	5,139	9,535	6,905	5,072
Aluminium	1,392	139	168	140	657	1,080
Aluminium alloys	3,239	6,698 ^{E2}	4,971	9,395	6,249	3,992
Value	258	438	333	586	452	354
3. Powders & Flakes	1	20	4	12	143	152
Value	0	1	1	2	10	10
4. Bars, Rods & Profiles	7,786	10,509	13,124	13,949	17,052	9,531
Aluminium	2,299	5,581	5,026	4,309	10,558	6,186
Aluminium alloys	5,487	4,928	8,098	9,640	6,494	3,345
Value	682	795	1,085	1,020	1,224	703
5. Wire	553	72	494	167	149	103
Aluminium	294	19	357	121	108	65
Aluminium alloys	259	52	138	46	41	38
Value	69	9	53	11	11	9
6. Plates, Sheets & Strip (t>0.2mm)	2,753	7,604	4,642	3,871	7,610	4,438
Aluminium	2,302	4,853	3,723	3,542	6,686	2,839
Aluminium alloys	451	2,751	919	329	925	1,598
Value	347	1,198	551	372	664	436
7. Foil (t<=0.2mm)	867	1,068	1,354	2,321	2,322	1,423
Not backed	533	739	1,041	2,022	1,924	1,253
Backed	334	329	313	299	398	170
Value	136	177	282	341	346	212
8. Tubes, Pipes & Fittings	630	849	1,190	1,764	2,325	1,341
Tubes & Pipes	530	693	1,030	1,495	1,883	1,124
Fittings	100	156	159	269	442	217
Value	109	179	327	458	530	295
Total Quantity	28,286	38,461	39,336	46,941	53,996	32,643
Total Value	2,052	3,340	3,289	3,499	3,973	2,477

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 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Matte & Cement	39	39	37	-	-	-
Value	1	2	3	-	-	-
2. Scrap	15,536	18,446	26,942	22,449	54,920	21,555
Value	734	1,034	1,121	1,251	2,181	1,840
3. Unwrought	898	2,164	394	181	659	268
Copper	10	0	5	13	18	8
Copper alloys	888	2,164	389	168	641	260
Value	47	116	29	20	52	45
4. Powders & Flakes	71	181	35	50	60	38
Value	14	13	9	11	14	9
5. Bars, Rods & Profiles	7,456	8,880	10,806	9,812	7,886	5,902
Copper	7,306	8,526	10,420	9,099	7,046	5,347
Copper alloys	150	355	387	712	840	555
Value	637	892	1,163	907	751	758
6. Wire	3,602	5,252	2,243	571	613	394
Copper	3,578	5,054	1,797	147	324	263
Copper alloys	24	198	446	424	289	131
Value	284	693	273	163	168	71
7. Plates, Sheets & Strip (t>0.15 mm)	674	1,467	898	1,812	5,127	3,916
Copper	391	436	380	1,034	1,418	1,007
Copper alloys	283	1,032	519	779	3,709 ^E	2,910
Value	82	209	105	141	474	462
8. Foil (t<0.15 mm)	7,731	9,005	6,944	7,862	6,762	3,780
Not backed	1,374	1,945	1,736	1,443	1,251	826
Backed	6,357	7,061	5,208	6,420	5,511	2,954
Value	1,348	2,261	1,117	983	834	439
9. Tubes, Pipes & Fittings	8,163	19,688	21,779	25,189	27,596	16,264
Tubes & Pipes	5,424	12,844	18,348	21,420	23,251	13,543
Fittings	2,739	6,844	3,431	3,769	4,346	2,721
Value	1,171	2,313	3,176	3,678	3,865	2,750
Total Quantity	44,170	65,124	70,078	67,927	103,622	52,118

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 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Pig Iron/DRI/HBI	15,316	15,787	13,562	17,100	19,172	12,172
<i>Value</i>	329	457	362	373	438	276
2. Ferro-alloys	2	1,005	121	9	26	0
Ferro-chromium	0	5	-	-	-	-
Ferro-manganese	2	0	1	-	1	-
Ferro-silico-manganese	-	-	-	-	-	-
Ferro-silicon	-	994	121	9	25	-
Other	-	5	0	-	0	-
<i>Value</i>	1	23	2	1	2	0
3. Scrap	76,003	99,960	102,465	87,122	117,927	78,237
Carbon Steel	41,121	58,712	56,332	43,870	61,808	46,878
Cast Iron	38	187	51	131	129	458
Stainless Steel	27,757	29,696	35,569	39,784	51,806	27,697
Other Alloy Steel	2,195	2,697	3,470	3,337	4,185	3,205
Other	4,892	8,668	7,043	-	-	-
<i>Value</i>	830	1,380	1,116	1,414	2,198	1,618
4. Semi-Finished Products	258	33,191	9,824	1,007	84,442	39,241
Billet	41	25,331	5,478	18	62,541	33,505
Billet & Slab (>= 0.25 C)	2	0	0	-	18,344	5,010
Ingot	3	47	14	415	48	42
Slab	52	11	41	1	0	-
Other	160	7,803	4,290	573	3,508	683
<i>Value</i>	6	271	91	10	897	529
5. Long Products	426,690	613,719	732,827	536,414	568,314	286,885
Angles, Shapes & Sections	209,958	313,606	261,759	250,743	288,344	130,802
Bars	137,686	81,777	261,230	57,773	50,274	13,822
Cold-drawn Bars	14,920	74,204	119,574	131,798	122,918	86,862
Wire Rods	8,148	28,062	13,855	10,788	6,957	4,377
Wires	55,978	116,070	76,409	85,312	99,820	51,022
<i>Value</i>	5,230	8,567	8,403	9,155	10,741	7,046
6. Hot Rolled Flat Product	160,245	472,845	79,826	236,520	275,923	152,148
Coil	134,611	435,360	50,605	216,009	253,549	145,413
Plate & Sheet	25,300	36,127	28,833	20,403	20,619	5,761
Strip	334	1,357	388	108	1,756	974
<i>Value</i>	1,704	5,348	822	3,242	3,941	2,943

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
7. Cold Rolled Flat Product	409,207	537,192	494,486	534,571	641,576	307,121
Coil	370,000	519,432	473,250	428,350	487,786	240,165
Plate & Sheet	29,353	10,233	19,377	105,011	151,864	62,961
Strip	9,854	7,527	1,859	1,211	1,926	3,995
Value	7,613	12,068	9,793	10,928	15,677	7,948
8. Coated Products	112,994	132,659	122,423	136,062	150,963	88,098
Chromium Plate	793	725	288	72	49	-
Electro Galvanized	46,605	36,262	27,864	46,470	46,336	28,080
Hot dip Galvanized	31,923	34,508	38,714	33,451	52,627	38,568
Tinplate	6,135	3,850	14,071	1,540	1,061	1,263 ^E
Other	27,538	57,314	41,485	19,822	10,112	5,462
Zincalume/ Color Coated				34,707	40,777	15,988
Value	1,944	2,525	2,373	3,047	3,965	2,403
9. Pipes & Fittings	241,312	338,493	284,012	266,659	237,540	155,327
Fittings	51,433	53,166	54,151	56,613	61,034	34,133
Seam Pipes	164,388	256,680	201,940	180,354	142,401	99,975
Seamless Pipes	25,491	28,647	27,921	29,691	34,106	21,218
Value	6,926	8,640	8,732	8,498	9,308	5,893
10. Sheet Piling	1,329	3,729	13,328	14,139	23,749	5,945
Stainless Steel	212	24	58	0	49	11
Other Alloy Steel	-	-	0	0	0	-
Other	1,117	3,705	13,269	14,138	23,701	5,934
Value	16	56	166	171	360	124
11. Rails and Accessories	776	732	1,715	1,615	1,385	493
Value	33	27	50	77	48	15
Finished Steel Products Total^{1/}	1,352,554	2,099,369	1,728,617	1,725,980	1,899,450	996,017
Finished Steel Products Value^{1/}	23,466	37,231	30,339	35,118	44,041	26,373
Total Quantity	1,444,133	2,249,313	1,854,589	1,831,218	2,121,016	1,125,667
Total Value	24,632	39,361	31,910	36,915	47,575	28,795

1/ : % Changes as compared with 2002

1/ : Excludes item 1 - 4

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

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

Table 16 Lead Export Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Scrap	775	788	761	819	687	611
<i>Value</i>	<i>47</i>	<i>53</i>	<i>47</i>	<i>44</i>	<i>60</i>	<i>54</i>
2. Unwrought	16	169	54	1	144	903
Lead	2	0	12 ^E	0	24	0
Lead alloys	14	169	42	1	120	903
<i>Value</i>	<i>1</i>	<i>4</i>	<i>1</i>	<i>1</i>	<i>4</i>	<i>28</i>
3. Powders & Flakes	38	55	0	0	-	-
<i>Value</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>-</i>	<i>-</i>
4. Bars, Rods, Profiles & Wire	2	2	3	10	15	5
<i>Value</i>	<i>1</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>2</i>	<i>1</i>
5. Plates, Sheets, Strip & Foil	1	0	6	0	8	22
<i>Value</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>1</i>	<i>2</i>
6. Tubes, Pipes & Fittings	0	5	9	0	2	0
<i>Value</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>
Total Quantity	832	1,019	834	830	857	1,541

1/ : % Changes as compared with 2002

P : Preliminary

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

Table 17 Nickel Export Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Matte & Sinters	-	-	-	-	-	-
<i>Value</i>	-	-	-	-	-	-
2. Scrap	294	228	148	138	906	591
<i>Value</i>	15	8	5	6	82	84
3. Unwrought	0	-	23	0	1	0
Nickel	0	-	23	0	1	-
Nickel alloys	-	-	-	-	-	0
<i>Value</i>	0	-	7	0	0	0
4. Powders & Flakes	20	-	1	-	0	1
<i>Value</i>	0	-	0	-	0	0
5. Bars, Rods & Profiles	0	-	-	-	0	0
<i>Value</i>	2	-	-	-	0	0
6. Wire	17	0	15	0	2	1
<i>Value</i>	1	0	5	0	1	0
7. Plates, Sheets & Strip	0	1	13	6	0	2
<i>Value</i>	1	1	4	6	8	6
8. Foil	0	1	-	-	0	-
<i>Value</i>	0	0	-	-	0	-
<i>Value</i>	1	1	0	-	2	0
Total Quantity	345	232	200	144	912	594
Total Value	20	10	21	13	92	90

1/ : % Changes as compared with 2002

P : Preliminary

Table 18 Tin Export Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Scrap	169	51	168	76	144	125
<i>Value</i>	1	1	2	1	2	2
2. Unwrought	12,367	13,036	18,945	12,758	9,837	5,566
Tin	12,336	12,833	18,714	12,661	9,762	5,526
Tin alloys	31	203	231	97	75	40
<i>Value</i>	2,491	2,802	3,649	2,241	1,989	1,668
3. Powders & Flakes	2	-	-	-	0	24
<i>Value</i>	0	-	-	-	0	9
4. Bars, Rods, & Profiles	0	2	40	263	628	526
<i>Value</i>	0	0	9	70	176	165
5. Wire	0	-	8	0	2	1
<i>Value</i>	0	-	0	0	1	0
6. Plates, Sheets & Strip (t>0.2mm)	59	73	40	0	-	-
<i>Value</i>	7	8	4	0	-	-
7. Foil	0	-	0	-	-	0
<i>Value</i>	0	-	0	-	-	0
<i>Value</i>	-	-	0	0	-	1
9. Other	314	567	553	420	431	167
<i>Value</i>	207	240	240	222	230	101
Total Quantity	12,597	13,730	19,755	13,516	11,042	6,410
Total Value	2,706	3,051	3,904	2,536	2,398	1,947

1/ : % Changes as compared with 2002

P : Preliminary

Table 19 Zinc Export Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Scrap	873	448	510	1,077	1,736	1,256
<i>Value</i>	8	7	8	26	40	31
2. Unwrought	30,658	26,062	66,191	20,334	24,044	7,904
Zinc	21,959	18,758	60,369	9,170	7,902	1,306
Zinc alloys	8,699	7,305	5,823	11,163	16,142	6,598
<i>Value</i>	1,251	1,230	1,124	756	897	346
3. Dust, Powders & Flakes	308	163	96	748	1,172	604
<i>Value</i>	6	3	3	14	16	9
4. Bars, Rods, & Profiles	-	-	17	157	17	10
<i>Value</i>	-	-	1	5	1	0
5. Wire	89	77	29	21	129	24
<i>Value</i>	3	1	1	0	3	1
6. Plates, Sheets & Strip	7,967	6,829	3,973	6,516	11,277	5,465
<i>Value</i>	199	140	95	134	274	125
7. Foil	4	-	0	-	0	1
<i>Value</i>	0	-	0	-	0	0
<i>Value</i>	50	57	74	49	55	31
Total Quantity	40,180	33,910	71,401	29,118	38,809	15,503
Total Value	1,517	1,438	1,305	980	1,284	544

1/ : % Changes as compared with 2002

P : Preliminary

Table 20 Precious Metals Export Statistics 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Silver	6,224	77,817	2,427	1,973	2,227	841
Metal product	9	600	2,418	1,909	201	90
Jewellery	6,215	77,217	9	64	2,027	750
Value	8,707	10,289	12,287	13,904	17,502	8,914
2. Gold	210	2,716	259	128	173	46
Metal product	19	7	5	42 ^E	49	13
Jewellery	191	2,709	254	86	124	33
Value	28,394	23,191	31,143	38,771	46,161	17,280
3. Platinum - Group^{1/}	16	26	15	6	17	4
Metal product	1	3	0	0	0	0
Others ^{2/}	0	0	0	-	0	1
Value	1,451	692	1,566	542	664	343
Total Quantity	6,450	80,559	2,701	2,107	2,417	891
Total Value	38,552	34,172	44,996	53,218	64,327	26,537

1/ : % Changes as compared with 2002

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

2/ : 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 1999 - 2004 (Jan-Jun)

Unit : Metric Tonnes

Value : Million Baht

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
1. Antimony	47	193	130	123	370	-
Value	3	13	6	12	34	-
2. Beryllium	0	0	-	-	-	0
Value	0	0	-	-	-	0
3. Bismuth	-	-	-	-	-	-
Value	-	-	-	-	-	-
4. Cadmium	1	19	-	2	1	-
Value	0	0	-	0	0	-
5. Chromium	0	0	-	-	0	0
Value	0	0	-	-	0	0
6. Cobalt	15	46	0	0	0	-
Value	1	3	0	1	0	-
7. Germanium	-	-	-	-	-	0
Value	-	-	-	-	-	0
8. Magnesium	126	0	35	3	30	6
Unwrought	-	-	-	-	30	6
Scrap	126	-	20	-	-	0
Other	-	-	15	3	0	-
Value	0	-	3	0	2	0
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	0
Value	4	1	0	0	1	1
11. Tantalum	78	156	81	265	108	111
Value	763	2,185	1,550	1,976	1,288	1,133
12. Titanium	1	4	3	8	4	2
Value	9	29	9	24	16	7
13. Tungsten	21	5	6	16	21	14
Powders	19	2	1	11	6	3
Wire	1	0	0	0	0	0
Other	1	3	4	4	16	11
Value	1	2	4	13	26	26

ITEM	1999	2000	2001	2002	2003 ^P	2004 ^P (Jan-Jun)
14. Vanadium	-	-	-	-	-	-
<i>Value</i>	-	-	-	-	-	-
15. Zirconium	-	3	1	-	-	-
16. Other	0	0	-	3	-	0
<i>Value</i>	0	0	-	2	-	0
Total Quantity	410	427	255	420	535	133
Total Value	782	2,232	1,573	2,028	1,366	1,167

1/ : % Changes as compared with 2002

P : Preliminary

DOMESTIC PRICE

Table 22 Metals Domestic Price Statistics 2004 (Jan-Sep)

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				77
2. Antimony	108	120	130	125	125	125	120	140	145				126
3. Brass	65	85	83	80	70	80	80	85	85				79
4. Copper	120	125	140	120	98	110	130	140	150				126
5. Gold^{1/}	494	483	488	489	477	485	494	506	512				492
6. Lead	35	40	38	38	40	43	45	44	46				41
7. Nickel	600	600	600	550	500	600	650	650	600				594
8. Tin	281	285	330	392	420	430	398	410	420				374
9. Zinc	48	52	57	58	54	55	52	53	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 (Jan-Sep)

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	7.29	7.04	7.89	n.a.				8.31
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				21.10
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				19.72
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				19.66
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				19.86
6. Angle (Size 40x40x3 mm.)	18.79	21.72	21.72	23.24	23.07	21.00	21.26	22.74	23.54				21.90
7. Channel (Size 75x40 mm	18.43	20.84	20.84	20.83	21.39	21.14	21.03	22.61	23.09				21.13
8. Wires (No. 18)	23.33	28.20	28.50	29.50	28.75	28.46	28.67	29.54	31.67				28.51
9. P.C. WIRE	33.83	35.33	37.00	38.33	38.33	38.67	38.67	38.67	38.67				37.50
10. P.C. STRAND	34.83	36.33	38.00	39.33	39.83	39.67	39.67	39.67	39.67				38.56
11. HR coil	18.20	21.70	22.66	22.60	22.55	21.97	22.50	24.15	24.95				22.36

Source: 1/ Entrepreneur

: Bureau of Trade and Economic Indicies

APPENDIX I

METALS WORLD PRICE STATISTICS

Table I-1 Aluminium World Price Statistics 1991-2004 (Jan-Sep)

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	1,720				1,678

Source : London Metal Exchange (LME)

Table I-2 Antimony World Price Statistics 1991-2004 (Jan-Sep)

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	3,100				2,804

Source : MB Free Market

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

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	0.55				0.63

Source : MB Free Market

Table I-4 Copper World Price Statistics 1991-2004 (Jan-Sep)

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	2,887				2,788

Source : London Metal Exchange (LME)

Table I-5 Gold World Price Statistics 1991-2004 (Jan-Sep)

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
2004	414	405	407	404	384	393	380	401	405				399

Source : London Metal Exchange (LME)

: *World Gold Council

Table I-6 Lead World Price Statistics 1991-2004 (Jan-Sep)

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
2004	758	888	886	753	808	870	939	921	933				862

Source : London Metal Exchange (LME)

Table I-7 Nickel World Price Statistics 1991-2004 (Jan-Sep)

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
2004	15,327	15,145	13,715	12,848	11,118	13,534	15,023	13,680	13,260				13,739

Source : London Metal Exchange (LME)

Table I-8 Platinum World Price Statistics 1991-2004 (Jan-Sep)

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
2004	851	846	899	881	810	807	809	847	842				844

Source : London Metal Exchange (LME)

: *Kitco Inc.

Table I-9 Palladium World Price Statistics 1991-2004 (Jan-Sep)

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
2004	216	235	268	297	246	229	221	216	228				239

Source : London Metal Exchange (LME)

: *Kitco Inc.

Table I-10 Silver World Price Statistics 1991-2004 (Jan-Sep)

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
2004	6.37	6.48	7.29	7.09	5.88	5.88	6.08	6.71	6.39				6.46

Source : London Metal Exchange (LME)

: *Kitco Inc.

Table I-11 Steel World Price Statistics 2004 (Jan-Sep)

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				478
Max	390	470	525	520	520	520	508	520	507				498
Merchant bars													
Min	400	447	na	na	na	580	582	590	590				532
Max	420	467	na	na	na	600	602	610	610				552
Wire rod													
Min	370	465	540	520	520	520	514	530	530				501
Max	400	490	562	540	540	540	534	550	550				523
CR coil													
Min	na	598	633	647	660	660	662	710	720				661
Max	na	623	675	673	680	680	674	725	740				684
HR coil													
Min	360	500	573	550	550	600	612	690	680				568
Max	420	525	603	580	580	605	617	705	690				592
Galvanized coil													
Min	na	635	730	740	740	763	770	na	na				730
Max	na	663	750	750	750	773	816	840	840				773
China													
Slab													
Min	354	439	448	440	na	na	na	na	na				420
Max	361	453	458	450	na	na	na	na	na				431
Billet													
Min	358	431	453	450	na	na	na	na	na				423
Max	370	453	461	455	na	na	na	na	na				435
Merchant bars													
Min	na	na	na	na	na	na	na	na	na				na
Max	na	na	na	na	na	na	na	na	na				na
CR coil													
Min	476	573	568	573	560	548	514	540	638				554
Max	500	590	583	590	580	583	534	550	660				574
HR coil													
Min	400	455	453	463	438	430	422	440	na				438
Max	419	465	463	497	458	450	434	460	na				456

	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				436
Max	336	424	458	500	490	460	466	470	493				455
HR coil													
Min	295	398	478	533	na	510	528	540	560				480
Max	310	433	520	560	525	530	556	570	590				510
CR coil													
Min	405	500	578	617	610	610	628	640	660				583
Max	425	530	615	653	628	630	640	658	678				606
Galvanized coil													
Min	456	553	670	700	700	710	726	740	750				667
Max	475	590	700	730	728	730	756	770	780				695
CIS*													
Slab													
Min	348	388	435	445	445	445	448	460	480				433
Max	370	411	465	470	470	470	470	480	500				456
Billet													
Min	339	385	392	380	326	290	340	380	380				357
Max	355	406	414	390	338	304	358	395	390				372
Rebars													
Min	351	408	428	460	430	396	395	420	430				413
Max	365	425	455	470	440	406	405	435	450				428
Wire rods													
Min	353	409	438	460	433	396	410	420	430				417
Max	364	426	455	470	443	406	420	435	450				430
CR coil													
Min	466	524	560	560	550	520	520	520	570				532
Max	490	548	596	580	573	550	550	550	600				560
HR coil													
Min	368	445	480	460	435	430	438	450	520				447
Max	400	485	560	520	505	500	500	500	550				502
Brussel													
Merchant bars													
Min	310	326	404	427	458	468	480	480	510				429
Max	320	336	422	448	478	488	500	500	530				447
Wire rod													
Min	310	336	403	420	430	438	450	450	480				413
Max	320	351	421	438	460	460	470	470	500				432

	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				536
Max	403	425	524	567	599	600	600	600	660				553
ECSC**													
Merchant bars													
Min	370	443	470	na	na	na	na	na	na				428
Max	388	455	480	525	na	na	na	na	na				462
Wire rod													
Min	310	445	522	515	460	440	440	440	500				452
Max	335	483	537	530	480	450	450	450	530				472
HR coil													
Min	340	419	480	480	540	560	560	560	580				502
Max	354	439	510	510	563	580	580	580	600				524
CR coil													
Min	413	476	560	557	628	650	650	650	670				584
Max	431	503	590	582	650	670	670	670	690				606
Galvanized coil													
Min	428	530	650	650	684	695	695	695	695				636
Max	453	573	670	670	708	720	720	720	720				662

Source : Metal Bulletin

* : Commonwealth of Independent States

** : European Coal and Steel Community

Table I-12 Tin World Price Statistics 1991-2004 (Jan-Sep)

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	4,433	4,568	4,601	4,563	4,734	4,692	4,736	4,819	4,909	5,233	5,359	6,054	4,892

Source : London Metal Exchange (LME)

Table I-13 Zinc World Price Statistics 1991-2004 (Jan-Sep)

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
2004	1,017	1,087	1,105	1,032	1,028	1,021	988	975	974				1,025

Source : London Metal Exchange (LME)