

● **QUARTERLY REPORT ON THE STATUS
OF THE STEEL INDUSTRY**

Report to the Committee on
Ways and Means on Investigation
No. 332-226 Under Section 332
of the Tariff Act of 1930

QUARTERLY REPORT ON THE STATUS OF THE STEEL INDUSTRY—MARCH 1992

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Washington, DC 20436

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Global Ferrous Scrap Market

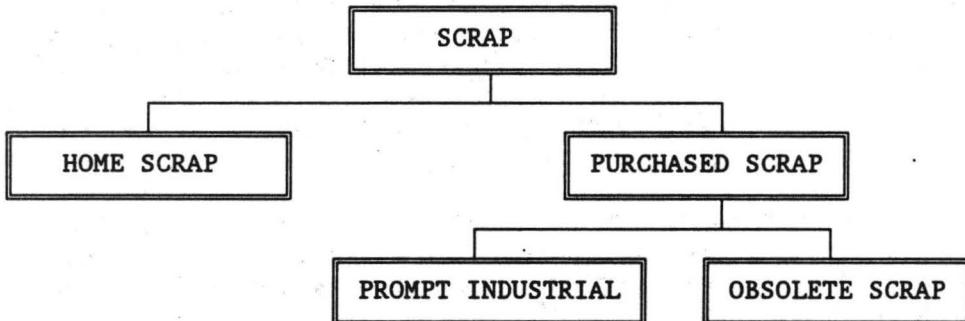
Introduction

This report examines current conditions in the global ferrous scrap market and the role of the U.S. scrap industry in that market. The United States has dominated North American and European scrap markets for decades. Although the industry's export focus is changing, several factors appear to assure a continued dominant U.S. global position, among them, the virtually unlimited supply of scrap in the United States and the knowledge and determination of U.S. scrap exporters.

Background

Steelmakers and foundries meet their scrap needs by remelting the scrap they generate internally (home scrap) and by purchasing scrap on the open market (figure 1). In 1990, home scrap accounted for 36 percent of the total U.S. supply of scrap. Scrap purchased from brokers or processors, which accounted for 64 percent of the total U.S. supply, is either prompt industrial scrap (estimated at 26 percent) which auto, appliance, and other manufacturers generate in their manufacturing process, or obsolete scrap (estimated at 38 percent), which comes from discarded autos, rails, and other steel-containing articles.¹

Figure 1
Types of scrap



Although electric arc furnace (EAF) steelmakers are the main scrap consumers, smaller amounts of scrap are also used in the integrated firms' basic oxygen furnace (BOF) steelmaking process as a supplement to molten pig iron from the blast furnace. In the United States, 58 percent of steel scrap was used in EAF steelmaking, whereas other steelmaking furnaces, primarily BOFs, consumed 13 percent. Iron and steel foundries consumed the remaining 29 percent of scrap steel.²

¹ U.S. Bureau of Mines official, telephone conversation with USITC staff, Feb. 18, 1992.

² U.S. Bureau of Mines, Mineral Industry Survey, May 1991, table 19, p. 25.

Factors Affecting Scrap Consumption

Global scrap consumption has apparently remained fairly stable in the past decade, representing an overall balance of factors that act to increase and diminish consumption.³ These three main factors are steel production, the EAF share of steel production, and the use of scrap substitutes.

Global crude steel production increased 9 percent to 770 million mt during 1981-90. As growth in EAF steelmaking has outpaced other forms of steelmaking, the EAF share of global steel production has grown from 22 percent in 1980 to 28 percent in 1990. Both of the factors serve to increase demand for scrap. On the other hand, the increasing use of scrap substitutes and improved furnace operating practices have dampened growth in the scrap market.

The main scrap substitute for minimills is direct-reduced iron (DRI), which is iron ore that has been purified in a gas- or coal-based reduction process. Because it is relatively free from impurities, DRI is particularly desirable in higher quality steel applications and can improve furnace productivity. However, DRI is generally more expensive; the current cost differential in the United States between DRI and premium grade scrap at the point of consumption was estimated to be between \$40 and \$50 per metric ton in 1990.⁴ In addition, DRI requires a stabilization process (usually by forming into briquettes) before being transported, needs more energy than scrap for steelmaking, and generates more slag (lowering yields). DRI is expanding most rapidly in South America, Southeast Asia, and the Middle East, where indigenous scrap supplies are limited and factors of production for DRI are plentiful, thereby narrowing the scrap/DRI cost differential. Current world DRI capacity is 29 million mt.⁵ In the five major DRI-producing countries (Venezuela, Mexico, Indonesia, Saudi Arabia, and Argentina), steel production increased 27 percent during 1981-90, fueling growth in DRI consumption.⁶

Another scrap substitute for EAF steelmakers, though of limited application, is pig iron. In some countries, particularly Brazil, pig iron is melted in EAFs. In most other countries, pig iron is too costly to serve as an effective scrap substitute.⁷

³ Data on scrap consumption are incomplete. Reporting country statistics indicate, however, that overall scrap consumption has not changed significantly in the past decade.

⁴ Robert Garino, "DRI-Scrap's Friend or Foe?" Scrap Processing and Recycling, Nov./Dec. 1991, p. 134.

⁵ Garino, p. 132.

⁶ Calculated by USITC staff using statistics of the International Iron and Steel Institute. Figure excludes production in the former Soviet Union, which is the third largest producer of DRI.

⁷ Even in Brazil, the use of pig iron as a raw material for electric furnace steelmaking is evidently dwindling. In 1990, the Brazilian government closed 60 of its 110 pig iron plants due to environmental problems.

Despite the potential of scrap substitutes, scrap remains the dominant material for EAF steelmaking, with global consumption over twenty times world DRI consumption. However, in countries and regions where relatively plentiful iron ore and natural gas enable lower DRI production costs, DRI becomes an important factor offsetting scrap consumption. Data on the specific consumption of scrap in EAFs (i.e. the amount of scrap used to produce a metric ton of EAF steel) reveal that EAF steel producers that rely solely on scrap generally employ 1.1 mt to 1.2 mt of scrap for each ton of steel produced. In countries where DRI use is more common, the specific consumption of scrap is considerably less. Mexico, for example, uses about 0.4 mt of scrap per ton of EAF steel produced.⁸

Global Supply and Consumption

As indicated in table 1, the former Soviet Union was the largest producer of steel scrap in 1990, followed by the United States, Japan, Germany, China, France, and the United Kingdom. Gross scrap generation levels, as well as the type of scrap generated, depend on a country's size, level of development, and steelmaking and manufacturing efficiency. Advanced industrialized economies, because of their developed infrastructure and supply of advanced consumer goods, tend to generate a higher ratio of obsolete scrap per capita. And because steelmakers in advanced countries have increased their use of continuous casting (which diminishes home scrap generation), they have had to increasingly rely on purchased scrap.⁹ In the United States, however, home scrap as a percent of total scrap declined from 51 percent to 36 percent during 1983-90. In China and the former Soviet Union, home scrap generation is believed to account for a much larger share of total scrap since steelmaking processes are less efficient. In 1989, less than one-fifth of the steel produced in eastern Europe and the Soviet Union was continuously cast.

Many of the countries that are producers of scrap are also major consumers of scrap (figure 2). Despite the similarities in the list of top producers and top consumers, some significant differences in the character of their scrap markets exist. The former Soviet Union, Japan, and China tend to run a fairly close balance within their domestic scrap markets: trade in scrap for these countries is minimal compared to their consumption/production levels. However, scrap exports by western countries represent a significant percentage of their annual production.

⁸ United Nations Economic Commission for Europe (U.N. ECE), Iron and Steel Scrap: Its Significance and Influence on Further Developments in the Iron and Steel Industries, ECE/Steel/74, 1991, p. 137.

⁹ U.N. ECE, Iron and Steel Scrap, p. 114.

Table 1

Ferrous scrap: Consumption, imports, exports, and apparent production, by selected countries or regions, 1990

(In thousand metric tons)

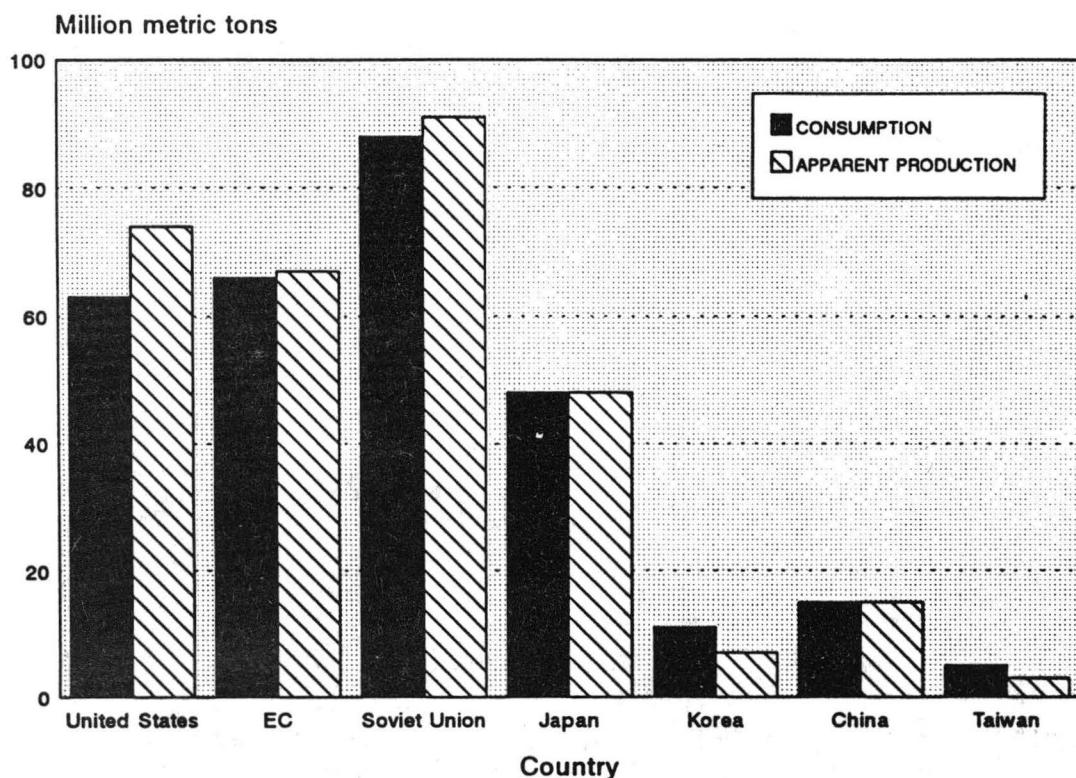
Country ¹	Consumption	Imports	Exports	Apparent Production
North America:				
United States.....	63,395	1,292	11,580	73,683
Canada.....	6,554	1,002	571	6,123
Total.....	69,949	2,294	12,151	79,806
Latin America.....	13,525	403	150	13,272
European Community:				
France.....	9,120	1,009	3,704	11,815
Germany.....	16,671	1,154	5,043	20,560
Netherlands.....	915	1,160	2,594	2,349
United Kingdom.....	7,255	60	3,199	10,394
Other.....	32,212	12,112	1,422	21,522
Total.....	66,173	15,495	15,962	66,640
European Free Trade Area..	9,396	4,970	796	5,222
Eastern Europe and the				
Soviet Union:				
Eastern Europe.....	21,750	915	338	21,173
Soviet Union.....	87,900	50	2,700	90,550
Total.....	109,650	915	3,038	111,773
Asia and Oceania:				
Japan.....	48,244	1,048	395	47,591
Korea.....	11,069	3,885	40	7,224
China.....	14,500	200	800	15,100
Taiwan.....	4,500	1,285	67	3,282
Australia.....	1,782	1	986	2,767
Africa.....	3,500	50	300	3,750
Total selected countries..	389,463	27,709	35,040	396,794

¹ Not all the countries are listed under a region.

Source: Compiled by USITC staff based on data from the U.S. Bureau of Mines and the International Iron and Steel Institute.

Figure 2

Ferrous scrap: Consumption and apparent production, by selected country, 1990



Source: IISI and Bureau of Mines

Trade

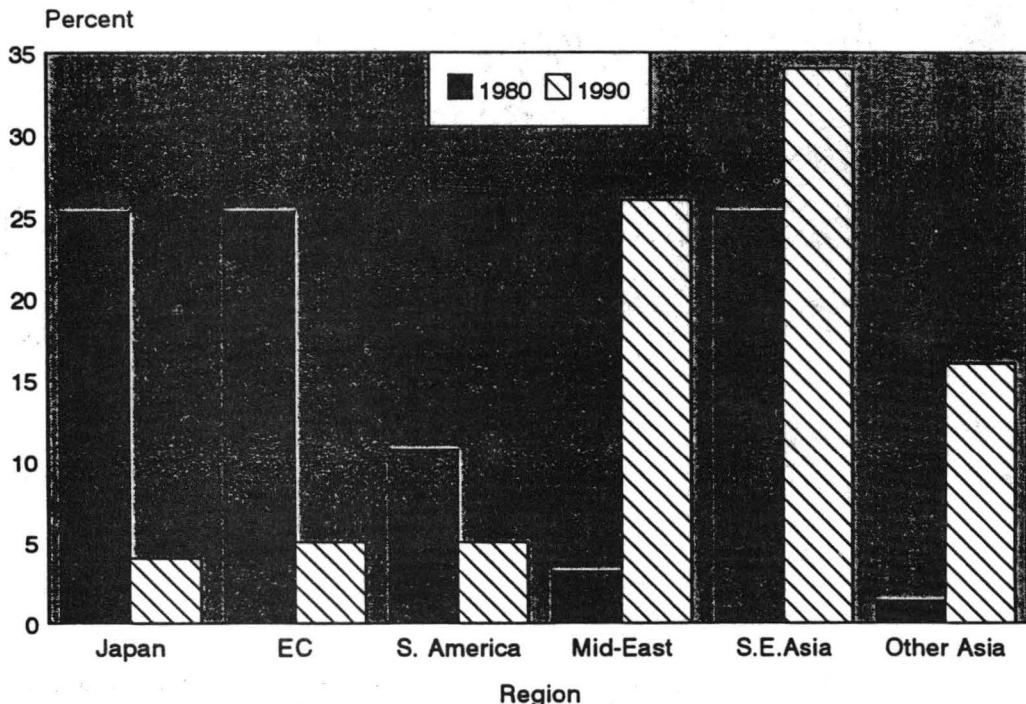
The United States is the dominant exporter in the global scrap market, exporting more than twice as much as the next largest exporting country, Germany. Furthermore, whereas the United States exports scrap to all regions of the world, close to 90 percent of scrap exports from Germany and other northern European countries stays within the EC (generally to southern EC countries). The republics of the former USSR, although significant exporters in the past, may be uncertain suppliers at this time.

Korea, Taiwan, and the southern EC countries are heavy importers of scrap, reflecting consumption that is higher relative to apparent production. Japan, which has historically been a major net importer, seems to be moving toward becoming a net-exporting country. Imports were down to around half a

million mt in 1991 from 4 million mt in 1984.¹⁰ Japan's exports are estimated at 331,000 mt during 1991, shipped principally to Taiwan, Indonesia, Singapore and other Asian markets.¹¹

Although the level of U.S. scrap exports have remained fairly steady over the past decade, U.S. scrap traders have redirected their exports from Europe to the Middle East and Pacific Rim regions (figure 3). This shift reflects not only the emergence of several western European countries as major

Figure 3
Ferrous scrap: U.S. exports, by country, 1980, 1990
Scrap exports shift from Europe, Japan to Asia, Mid-East



Source: Official statistics of the U.S. Department of Commerce.

net exporters, and of small but increasing export levels in eastern European countries, but also the emergence of expanding markets in developing countries. Whereas Europe was a major market for U.S. scrap exports in 1979,

¹⁰ Ross Cunningham, General Manager, Simsmetal, "Historical and Future Growth Trends in the Ferrous Scrap Markets of Asia," presented at Metal Bulletin's 2nd International Scrap and Secondary Metals Conference, Amsterdam, September 10 to 12, 1990, p. 6.

¹¹ International Iron and Steel Institute, and American Metal Market, Dec. 5, 1991, p. 1.

by 1990 less than 7 percent of scrap exports were directed there; most U.S. scrap was instead exported to either the Middle East¹² (26 percent), to Southeast Asia¹³ (34 percent), or to Asia¹⁴ (17 percent).¹⁵ Exports to the emerging economies of Southeast Asia have been growing at an estimated annual rate of 5 to 7 percent, which approximates the growth of raw steel production in the region¹⁶.

Outlook

The outlook for the United States as a scrap exporter appears favorable, particularly in the Asian market. The principal competitors in the Asian market--Germany, United Kingdom, France, and the Netherlands--are likely to continue focusing on export markets within the EC. Eastern Europe is not a serious competitor in Asia since it concentrates on gaining the markets and hard currencies of Western Europe. Although Japan may soon emerge as a net exporter, U.S. scrap industry sources indicate that, in the foreseeable future, Japanese steelmakers will continue to consume almost all of the scrap generated in Japan.¹⁷ This situation leaves a huge untapped and developing scrap market to U.S. exporters. The anticipated growth in EAF steelmaking in many regions of the world, particularly Southeast Asia, China, India, Pakistan, and the Middle East (principally Saudi Arabia, Iraq, Iran, Egypt, and Turkey) leaves the U.S. scrap industry with a positive outlook.¹⁸ Although increased DRI production in some of these countries will likely affect their demand for scrap purchases, the demand for EAF feed-stocks in such countries is expected to grow at a rate that exceeds the growth in DRI production.

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205-3437

¹² Egypt, Saudi Arabia and Turkey.

¹³ Hong Kong, Indonesia, S. Korea, Malaysia, Singapore, and Taiwan.

¹⁴ Thailand, Pakistan, China, and India.

¹⁵ U.S. Department of Commerce and the U.S. Bureau of Mines.

¹⁶ Direct from Midrex, 1st. Quarter 1991, p. 4.

¹⁷ U.S. scrap industry executive, telephone interview with USITC staff, Mar. 1, 1992.

¹⁸ Direct from Midrex, p. 5; Cunningham presentation; Marketing Director of ISRI and Executive Manager of Schiavoni-Bomono Corp., telephone interview with USITC staff, Feb. 6, 1992.

Quarterly Review:
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U.S. STEEL INDUSTRY HIGHLIGHTS

Figure I
U.S. average monthly and monthly steel shipments

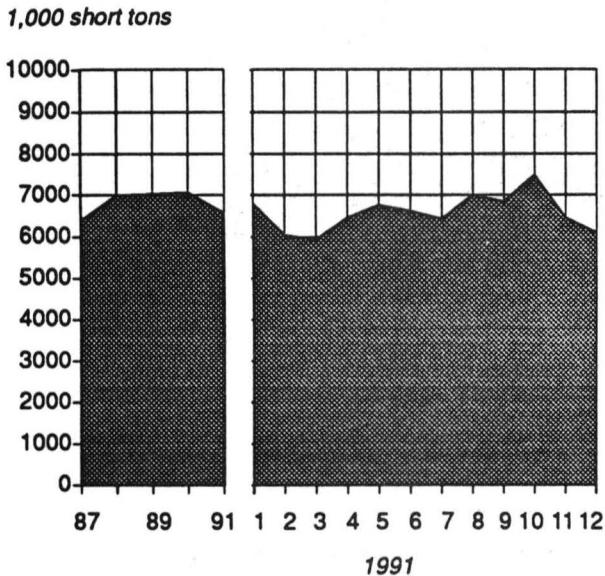


Figure II
U.S. average monthly and monthly steel imports

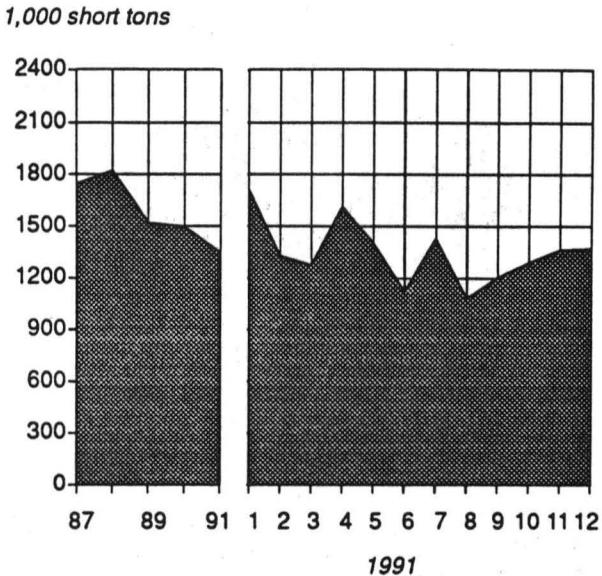


Figure III
U.S. average monthly and monthly steel exports

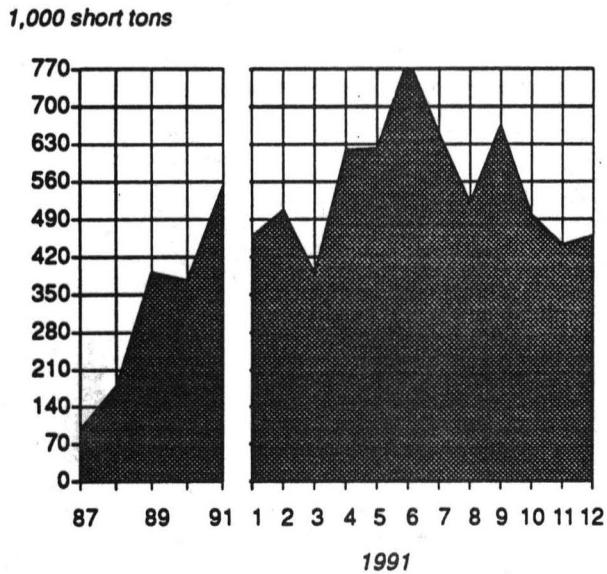
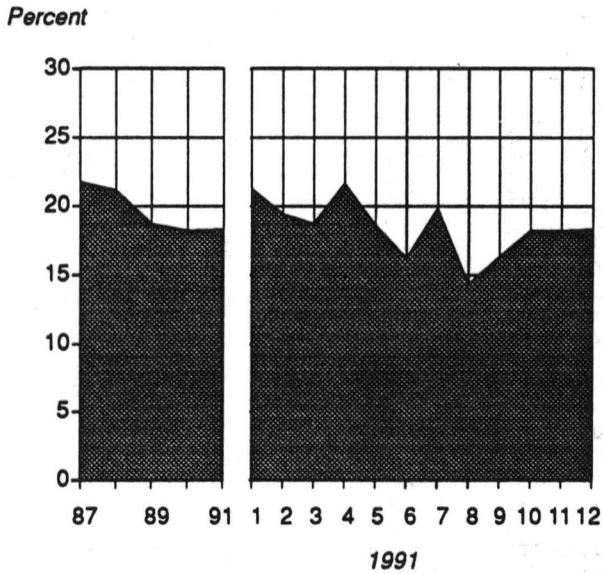


Figure IV
U.S. average monthly and monthly steel import penetration¹



¹ Import penetration is defined as the percent of apparent consumption represented by imports.

Source: Compiled from data of the American Iron and Steel Institute and official statistics of the U.S. Department of Commerce.

INTERNATIONAL PRODUCTION AND CONSUMPTION

Figure v
Raw steel: Geographic distribution of world production, 1990

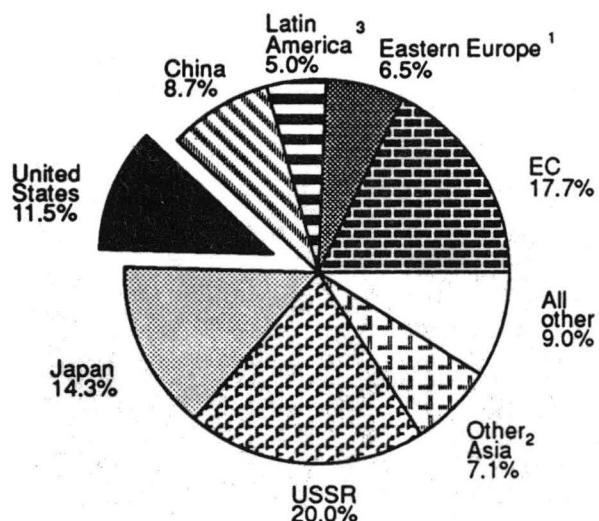
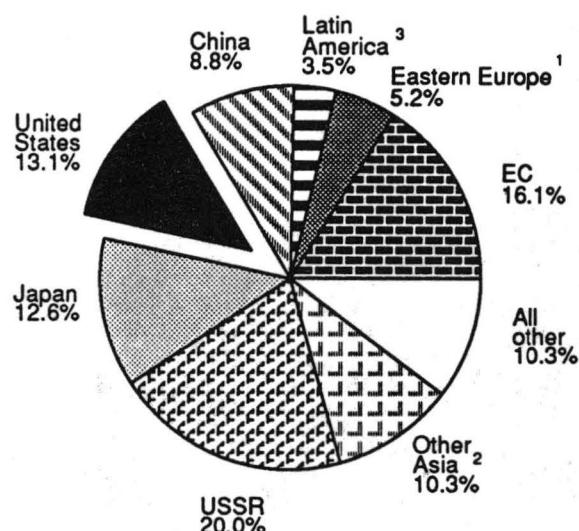


Figure vi
Raw steel: Geographic distribution of world apparent consumption, 1990



¹ Includes Bulgaria, Czechoslovakia, former German Democratic Republic, Hungary, Poland, and Romania.

² All Asian countries excluding Japan, China, North Korea, and the Middle East region.

³ Includes Mexico, Central America, South America and the Caribbean (including Cuba).

Source: International Iron and Steel Institute.

Table I
Raw Steel: Production of top 20 steelmakers, 1981, 1991

Company	Country	1981	1991	Volume change 1981-91	Percent change 1981-91
		(Million metric tons)			
Nippon Steel	Japan	29.6	28.6	-1.0	-3.4
Usinor Sacilor	France	19.8	22.8	3.0	15.3
Posco	S. Korea	8.7	19.1	10.4	119.7
British Steel	U.K.	13.2	12.9	-0.3	-2.3
NKK	Japan	12.6	12.5	-0.2	-1.4
ILVA	Italy	213.9	11.0	-2.9	-20.9
Kawasaki	Japan	11.4	10.9	-0.5	-4.3
Thyssen	Germany	11.8	10.9	-0.9	-7.7
Sumitomo	Japan	11.2	10.9	-0.3	-2.7
USS	U.S.	21.2	9.6	-11.7	-55.0
SAIL	India	5.5	9.4	3.9	70.5
Bethlehem	U.S.	15.2	9.1	-6.1	-40.1
Arbed	Luxembourg	11.0	7.6	-3.4	-30.8
Iscor	South Africa	6.9	7.6	0.7	10.3
LTV Steel	U.S.	39.9	6.9	-2.9	-29.5
Kobe Steel	Japan	6.7	6.5	-0.2	-3.0
China Steel	Taiwan	41.5	5.9	4.4	290.7
BHP	Australia	7.5	5.7	-1.8	-24.1
Hoogovens	Netherlands	5.2	4.9	-0.3	-5.0
National Steel	U.S.	7.4	4.8	-2.7	-36.0

¹ Represents combined production of Usinor and Sacilor, which merged to form Usinor-Sacilor in 1987.

² Represents production of FINSIDER, many of whose facilities were taken over by ILVA in early 1989.

³ Represents combined production at Jones & Laughlin Steel and Republic Steel, which merged to form LTV Steel in 1984.

⁴ Estimated.

Source: Metal Bulletin.

INTERNATIONAL PRODUCTION

Table II

Raw steel: Average annual production, by specified country/region, by specified 5-year periods, 1957-91

<i>Period</i>	<i>United States</i>	<i>EC-12</i>	<i>Japan</i>	<i>Principal steel-producing developing countries¹</i>	<i>World total</i>
<i>Million metric tons</i>					
1957-61	88.67	89.71	18.35	17.33	313.80
1962-66	108.90	108.55	37.56	22.33	420.98
1967-71	118.28	135.06	78.62	33.55	555.12
1972-76	122.36	152.82	108.61	48.71	669.32
1977-81	114.47	143.99	105.87	75.36	712.24
1982-86	76.49	128.82	101.18	102.24	690.10
1987-91	85.74	135.64	106.41	146.89	760.53
<i>Percent of world</i>					
1957-61	28.26	28.59	5.85	5.52	100.00
1962-66	25.87	25.78	8.92	5.30	100.00
1967-71	21.31	24.33	14.16	6.04	100.00
1972-76	18.28	22.83	16.23	7.28	100.00
1977-81	16.07	20.22	14.86	10.58	100.00
1982-86	11.08	18.67	14.66	14.82	100.00
1987-91	11.27	17.83	13.99	19.31	100.00

¹ Includes Brazil, Peoples Republic of China, India, Republic of Korea, Mexico, and Taiwan.

Source: U.K. Iron and Steel Statistics Bureau and International Iron and Steel Institute.

Table III

Raw steel: Production, by specified country/region, 1986-91

<i>Country/region</i>	<i>1986</i>	<i>1987</i>	<i>1988</i>	<i>1989</i>	<i>1990</i>	<i>1991</i>	<i>Percent Change 1986 -1991</i>
	<i>Thousand metric tons</i>						
Taiwan	5,545	5,915	8,288	9,047	9,554	10,957	97.6
Korea	14,555	16,782	19,118	21,873	23,125	26,002	78.6
Turkey	5,928	7,044	7,982	7,852	9,350	9,349	57.7
China	52,208	56,020	59,430	61,590	67,241	70,710	35.4
India	12,197	13,121	14,309	14,429	14,866	16,394	34.4
Japan	98,275	98,513	105,681	107,909	110,333	109,636	11.6
Mexico	7,225	7,642	7,779	7,851	8,682	8,013	10.9
EC-12	125,855	126,486	137,816	140,080	136,454	137,357	9.1
United States	74,032	80,876	90,650	88,834	88,900	79,393	7.2
Brazil	21,233	22,228	24,657	25,055	20,569	22,613	6.5
Australia	6,674	6,100	6,387	6,732	6,617	6,182	-7.4
Canada	14,081	14,737	14,866	15,458	12,100	12,994	-7.7
Soviet Union	160,537	161,935	163,037	160,096	154,333	133,643	-16.8
Czechoslovakia	15,112	15,416	15,380	15,465	14,877	12,273	-18.8
Poland	17,144	17,145	16,873	15,094	13,633	10,338	-39.7
Total selected countries/region	630,601	649,960	692,253	697,365	690,634	665,854	5.6
All other	82,782	85,942	87,396	87,575	79,615	68,546	-17.2
World total	713,383	735,902	779,649	784,940	770,249	734,400	2.9

Source: Compiled from statistics of the International Iron and Steel Institute.

INTERNATIONAL TRADE HIGHLIGHTS

Table v

Steel mill products: Average annual exports, by country/region of origin, by specified period, 1971–90¹

Period	United	EC-12 ²	Japan	Principal steel-producing developing countries ³	Other	World
	States					
<i>1,000 metric tons</i>						
1971–75	3,456	54,297	26,006	2,012	25,663	111,433
1976–80	2,627	61,511	32,423	4,911	33,810	134,983
1981–85	1,449	64,991	30,286	12,944	40,723	150,393
1986–90	2,365	69,458	22,720	19,074	51,187	164,805
<i>Percent of world exports</i>						
1971–75	3.1	48.7	23.3	1.8	23.0	100.0
1976–80	1.9	45.6	23.8	3.6	25.0	100.0
1981–85	1.0	43.2	20.1	8.6	27.1	100.0
1986–90	1.4	42.1	13.8	11.6	31.1	100.0
<i>Percent of shipments⁴</i>						
1971–75	3.8	45.9	30.5	5.9	(⁵)	22.0
1976–80	3.1	52.6	34.2	9.2	16.0	24.1
1981–85	2.2	59.9	32.6	17.2	18.2	26.6
1986–90	3.4	58.9	23.3	17.3	20.6	25.6

¹ Includes intra-EC trade.² Includes all twelve countries for all years.³ Includes Brazil, Peoples Republic of China, India, Republic of Korea, Mexico, and Taiwan.⁴ Derived by the staff of the International Trade Commission.⁵ Not available.

Source: Calculated from statistics of the International Iron and Steel Institute and the U.K. Iron and Steel Statistics Bureau, except as noted.

Table vi

Steel mill products: Average annual exports, by country/region of origin, by specified period, 1971–90¹

Period	United	EC-12 ²	Japan	Principal steel-producing developing countries ³	Other	World
	States					
<i>1,000 metric tons</i>						
1971–75	3,456	28,257	26,006	2,012	25,663	85,393
1976–80	2,627	33,131	32,123	4,911	33,810	107,056
1981–85	1,449	35,931	30,286	12,944	40,723	121,333
1986–90	2,365	28,857	22,720	19,074	51,187	124,204
<i>Percent of world exports</i>						
1971–75	4.0	33.1	30.5	2.3	30.1	100.0
1976–80	2.5	31.1	30.0	4.6	31.8	100.0
1981–85	1.2	29.6	25.0	10.7	33.6	100.0
1986–90	1.9	23.2	18.3	15.4	41.2	100.0
<i>Percent of shipments⁴</i>						
1971–75	3.8	30.7	30.5	5.9	(⁵)	17.8
1976–80	3.1	37.5	34.2	9.2	16.0	20.1
1981–85	2.2	45.2	32.6	17.2	18.2	22.6
1986–90	3.4	37.3	23.3	17.3	20.6	20.6

¹ Excludes intra-EC trade.² Includes all twelve countries for all years.³ Includes Brazil, Peoples Republic of China, India, Republic of Korea, Mexico, and Taiwan.⁴ Derived by the staff of the International Trade Commission.⁵ Not available.

Source: Calculated from statistics of the International Iron and Steel Institute and the U.K. Iron and Steel Statistics Bureau, except as noted.

INTERNATIONAL TRADE HIGHLIGHTS

Table vii

Steel mill products: Average annual imports, by country/region of origin, by specified period, 1971-90¹

Period	United	EC-12 ²	Japan	Principal steel- producing developing countries ³	Other	World
	States					
<i>Imports (1,000 metric tons)</i>						
1971-75	14,058	36,057	141	9,691	51,296	111,244
1976-80	15,644	41,910	675	13,891	63,263	135,383
1981-85	18,521	40,555	2,644	17,539	70,294	149,552
1986-90	17,527	53,839	5,930	21,542	67,796	166,634
<i>Percent of world</i>						
1971-75	12.6	32.4	0.1	8.7	46.1	100.0
1976-80	11.6	31.0	0.5	10.3	46.7	100.0
1981-85	12.4	27.1	1.8	11.7	47.0	100.0
1986-90	10.5	32.3	3.6	12.9	40.7	100.0
<i>Percent of apparent consumption of finished steel</i>						
1971-75	13.8	36.1	0.2	23.2	(⁴)	22.0
1976-80	16.2	43.0	1.1	22.2	26.3	24.2
1981-85	22.6	48.2	4.0	21.9	27.8	26.5
1986-90	20.6	52.7	7.4	19.1	25.6	25.8

¹ Includes intra-EC trade.² Includes all twelve countries for all years.³ Includes Brazil, Peoples Republic of China, India, Republic of Korea, Mexico, and Taiwan.⁴ Not available.

Source: Calculated from statistics of the International Iron and Steel Institute.

Table viii

Steel mill products: Average annual imports by country/region of origin, by specified period, 1971-90¹

Period	United	EC-12 ²	Japan	Principal steel- producing developing countries ³	Other	World
	States					
<i>Imports (1,000 metric tons)</i>						
1971-75	14,058	10,017	141	9,691	51,296	85,204
1976-80	15,644	13,374	675	13,891	63,263	107,003
1981-85	18,521	11,495	2,644	17,539	70,294	120,492
1986-90	17,527	13,238	5,930	21,542	67,796	126,033
<i>Percent of world</i>						
1971-75	16.5	11.8	0.2	11.4	60.2	100.0
1976-80	9.4	12.5	0.6	13.0	59.3	100.0
1981-85	15.4	9.5	2.2	14.6	58.3	100.0
1986-90	13.9	10.5	4.7	17.1	53.8	100.0
<i>Percent of apparent consumption of finished steel</i>						
1971-75	13.8	13.6	0.2	23.2	(⁴)	17.7
1976-80	16.2	19.4	1.1	22.2	26.3	20.1
1981-85	22.6	20.9	4.0	21.9	27.8	22.5
1986-90	20.6	21.5	7.4	19.1	25.6	20.8

¹ Excludes intra-EC trade.² Includes all twelve countries for all years.³ Includes Brazil, Peoples Republic of China, India, Republic of Korea, Mexico, and Taiwan.⁴ Not available.

Source: Calculated from statistics of the International Iron and Steel Institute.

Preface

On December 29, 1989, at the request of the Committee on Ways and Means, U.S. House of Representatives, and in accordance with the provisions of section 332(g) of the Tariff Act of 1930 (19 U.S.C. 1332(g)), the United States International Trade Commission announced the continuation of investigation No. 332-226, Monthly Reports on the Status of the Steel Industry.¹ The purpose of the reports is to monitor developments in the steel industry through March 1992, which corresponds with the President's extension of the voluntary restraint arrangements (VRAs) with certain countries and regions which export steel to the United States. The original investigation was instituted by the Commission on April 9, 1986. On December 12, 1990, with the approval of the Ways and Means Committee, the Commission announced that the reports would be published quarterly, with the first quarterly report to be published in March 1991.²

Background of the VRAs

On September 18, 1984, the President determined, under section 202(b)(1) of the Trade Act of 1974, that taking "escape clause" action was not in the national economic interest (49 Federal Register 36813). The decision followed an investigation conducted by the Commission in which imports of certain steel products were found to be a substantial cause of serious injury, or threat thereof, to certain domestic industries (investigation No. TA-201-51).³ Instead of taking action under the statute, the President established a nine-point policy to address the concerns of the industry. Under this policy, the President directed the United States Trade Representative to negotiate voluntary restraint arrangements (VRAs) to cover a five year period (from October 1, 1984 through September 30, 1989) with countries whose exports to the United States had increased significantly in previous years due to an unfair surge in imports. Although the structure of the arrangements varied from one country to another, each involved an agreement by the foreign government to limit exports of certain steel products to the United States; to bring the agreements into effect, U.S. producers withdrew pending unfair trade petitions and the U.S. Government suspended antidumping and countervailing duties that were in effect on steel products covered by the VRAs. The trade measures were expected to return the share of imports in the U.S. market to a more normal level of approximately 18.5 percent, excluding semifinished steel (which subsequent Administration statements indicated were limited to about 1.7 million tons per year).

¹See appendix A for a copy of the request letter and appendix C for notice of continuation.

²See appendix B for letter and appendix D for notice of change in frequency of publication.

³Affirmative decisions were rendered in the case of semifinished steel, plates, sheets and strip, wire and wire products, and structural shapes and units. Negative determinations were rendered in the case of wire rod, railway type products, bars, and pipes and tubes.

Specialty steel

On July 19, 1983, the President announced his decision to grant import relief to the specialty steel industry for a period of 4 years (53 Federal Register 52897). The relief was scheduled to expire on July 19, 1987. Under the relief, quotas were placed on imports of stainless steel bars, stainless steel wire rods, and certain alloy tool steel products; increased duties were imposed on stainless steel plates and stainless steel sheets and strip. On July 16, 1987, the President announced his decision to extend the import relief in the form then in effect for a period from July 20, 1987 through September 30, 1989. Under the steel VRAs, in return for their agreement to limit exports of stainless steel plates and sheets and strip, the VRA countries were exempted from having to pay additional duties (with the exception of Finland, whose VRA does not include stainless steel flat-rolled products). Quotas were unaffected by the VRAs for all countries except the EC-10, which negotiated limits on rods, bars, and alloy tool steel as part of its VRA; Brazil, whose VRA includes the specialty steel products subject to quotas; and Austria, which included alloy tool steel in its VRA.

Extension of the VRAs

On July 25, 1989, the President announced a Steel Trade Liberalization Program, under which the VRAs were extended for two and one-half years, terminating on March 31, 1992. The President directed the U.S. Trade Representative to negotiate VRAs at an overall restraint level of 18.4 percent (which is the same as the 1988 VRA import penetration level). In order to provide incentives for countries to eliminate trade-distorting practices and in order to respond to concerns of steel consumers for adequate supplies of raw materials, the President authorized up to an additional one percent import penetration annually that would be available to countries that entered into bilateral consensus agreements.⁴

On December 12, 1989, the U.S. Trade Representative announced that negotiations had been completed with the European Community and the 16 other countries that previously had VRAs.⁵ As a result of the negotiations, the restraint levels for steel mill products (including semifinished steel) increased to a 19.1 percent share of domestic consumption in the first period of the new VRA program (table A). Additional increases in restraint levels have been authorized for subsequent years for countries that have entered into bilateral consensus agreements.⁶ Product coverage under the VRAs remains

⁴Negotiations for bilateral agreements were conducted in order to restrict trade-distorting practices, and to address the causes rather than the symptoms affecting world trade in steel.

⁵South Africa is the only country with which the United States did not renew the VRA.

⁶Countries or regions with which the U.S. has negotiated bilateral agreements are the EC, Japan, South Korea, Brazil, Mexico, Australia, and Trinidad and Tobago. Although bilateral agreements have been reached with Austria, Finland
(continued...)

essentially unchanged though the agreements have been modified to include those specialty steel products that were previously subject to relief under section 203 of the Trade Act of 1974.

Operation of the VRAs

Under the VRAs, foreign governments agreed to limit their steel exports to the U.S. market over specified time periods. The foreign governments issue to their industries export certificates, which in turn must be presented to U.S. Customs officials as a condition of entry. The U.S. Department of Commerce, which administers the program, monitors compliance on the basis of these export certificates.⁷ Issues or problems regarding the program (including compliance) are discussed by contracting parties through periodic meetings between U.S. and foreign government officials.⁸

Some of the VRAs set fixed-tonnage limits, while others limit exports to a certain share of the U.S. market. With respect to market share agreements, the Department of Commerce uses forecasts of U.S. apparent consumption (published in February, May, August, October, and December of each year)⁹ to establish (and revise) quantitative export ceilings. Since final consumption can only be determined following the termination of a period, adjustments for over- or undershipping may be carried forward to the subsequent period.

⁶(...continued)

and Yugoslavia, there has been no announcement of additional market share increases for those countries.

⁷Although the import statistics in this report may serve as an indicator of the overall percent of the export ceilings that are met, they are not a substitute for the official statistics based on export certificates. Even as an indicator, however, the figures in this report tend to overstate the actual level of VRA exports. This is because product coverage varies among agreements, and imports of products covered by only some VRAs countries are considered VRA imports regardless of which VRA country is the country of origin; the degree of overstatement, however, is relatively small.

⁸In order to enforce compliance with the VRAs, the President may, among other things, direct Customs to deny entry to further shipments from countries surpassing their ceilings.

⁹Forecasts are provided to the U.S. Department of Commerce by DRI, a private sector consulting firm.

Table A
Overall ceiling levels under initial and extended voluntary restraint arrangements

<u>Country</u>	VRA I	(In percent)		
		Oct. 1, 1989-Dec. 31, 1990 ¹	Jan. 1, 1991-Dec. 31, 1991 ¹	Jan. 1, 1992-Mar. 31, 1992 ¹
Australia ² -----	0.26	0.39	0.49	0.59
Austria-----	0.24	0.25	0.25	0.25
Brazil ² -----	1.35	1.80	2.10	2.10
Czechoslovakia--	0.04	0.04	0.04	0.04
EC ² -----	6.94	7.00	7.00	7.00
Finland-----	0.24	0.25	0.25	0.25
East Germany ³ --	0.11	0.10	0.10	0.10
Hungary-----	0.03	0.05	0.05	0.05
Japan ² -----	6.19	5.00	5.30	5.30
South Korea ² ---	1.92	2.45	2.62	2.62
Mexico ² -----	0.49	0.95	1.10	1.10
PRC-----	0.08	0.08	0.09	0.09
Poland-----	0.09	0.13	0.13	0.13
Romania-----	0.11	0.11	0.11	0.11
Trinidad and Tobago ² -----	0.04	0.12	0.13	0.15
Venezuela-----	0.21	0.33	0.33	0.33
Yugoslavia-----	0.02	0.05	0.05	0.05
Total-----	18.36	19.10	20.14	20.26

¹ Numbers are approximate because some VRAs were negotiated for two 15-month periods, and others were negotiated for other combinations totaling 30 months. Market shares were calculated using 1989 apparent consumption as a basis. For each country, the ceilings for individual product groupings were added, and the total was divided by 1989 apparent consumption of steel mill products, adjusted according to the length of the period.

² Includes allocation of bonus percentage (see Preface for explanation). Amount of allocation not specified.

³ Following the reunification of Germany, responsibility for the administration of the voluntary restraint agreement with East Germany was transferred to the European Community. However, the export ceiling level for steelworks located in Eastern Germany remains unchanged.

Source: USTR press release, December 12, 1989.

Structure of the Report

- o The Quarterly Review section provides perspective on imports and trade by highlighting specific products, countries, or customs areas. The inclusion of such insights, which may not be readily apparent from the report's tabulated data, are intended to focus attention on important events in the steel industry. A chronological listing of Quarterly Review topics immediately follows each month's review.
- o Table 1 provides data on key items, including raw steel production, capability utilization, employment, wages, shipments, trade, and financial performance.
- o Tables 2-6 provide data on shipments, imports, exports, apparent consumption, and imports as a percent of apparent consumption by major product for all grades of steel, plus carbon and specialty products separately.
- o Table 7 provides quantity and value data on imports of total steel mill products and certain fabricated products. The EC and each VRA country are specified, as are the top 10 non-VRA suppliers. The table can be used to measure the extent to which penetration is approaching the levels anticipated under the President's steel policy.
- o Table 8 provides data on the quantity of steel other than semifinished steel, which is being imported from the EC, each VRA country, and the top non-VRA suppliers, and the market penetration of each country.
- o Table 9 provides data on the quantity of semifinished steel imported from the EC, each VRA country, and the top non-VRA suppliers, and presents the 1989 semifinished unadjusted export ceilings of each VRA country.
- o Tables 10-29 provide data on the quantity and value of major carbon and specialty steel imports on a product-by-product basis. The EC, each VRA country, and the top non-VRA suppliers are specified.
- o Table 30 provides data on the unit values of selected imports of carbon and specialty steel products.
- o Table 31 provides data on imports of selected carbon and specialty steel products. The table also provides information which permits an examination of the extent to which shifts in product mix within major product categories is occurring.
- o Tables 32-37 provide data on imports of steel mill products and certain fabricated products, by U.S. customs area.

Notes on Product Coverage and Methodology

Data on foreign trade and domestic shipments are compiled from official statistics of the U.S. Department of Commerce and from statistics of the American Iron and Steel Institute (AISI), respectively.

The products for which foreign trade data are collected generally correspond to those covered by the VRAs. Since the VRAs include certain fabricated products (defined as wire strand, wire ropes, cables, cordage and fabricated structural units), the data may exceed that compiled by other organizations such as the AISI. The additional tonnage, however, is relatively small. In 1990, AISI reported imports of 17.2 million tons, which compares to the 18.0 million tons indicated in this report. The product categories most affected are structural shapes and units (which includes fabricated structurals in this report) and wire and wire products (which includes wire rope and wire strand).

The EC VRA now includes Portugal and Spain, which are no longer subject to separate VRAs.

In table 30, unit values are calculated using unrounded data. Import values are customs value, i.e., the data do not include insurance and freight charges from the country of origin to the United States.

Trade data include imports under sections 9802.0060 and 9802.0080 of the Harmonized Tariff Schedule and sections 806.30 and 807.00 of the Tariff Schedule of the United States. These provisions apply to U.S. merchandise which is exported, processed, and reimported into the United States.

For the purposes of statistical continuity, South Africa continues to be listed as a VRA country.

As of the February 1990 report, the source for the data on employment levels in Table 1 was changed from the American Iron and Steel Institute (AISI) to the U.S. Department of Labor, Bureau of Labor Statistics (BLS). AISI employment figures cover reporting companies only; these companies represent a declining share of total raw steel production. The BLS data cover the entire steel industry, as defined by Standard Industrial Code 331, which includes the electrometallurgical products (or ferroalloy) industry. In the past, this industry, which is not generally defined as part of the steel industry, has represented less than three percent of total employment levels reporting under this SIC.

Beginning with the February 1990 report, data on tool steel imports were revised so as to exclude bearing steel products; the revisions affect data going back to January 1989. The revised data, which are consistent with industry practice and reports prior to 1989, treat bearing steel as an alloy steel and categorize it according to its end form--either plate, sheet and strip, or rod. Unlike data on imports and shipments, available data on tool steel exports include some bearing steel products. As a result, apparent consumption calculations (see table 5) are slightly understated in the case of

tool steel, and slightly overstated in the case of plate, sheet and strip, and rod. The ITC staff estimates, however, that the degree of understatement/overstatement is minor, as exports of bearing steel products are believed to be relatively low.

The continuity of certain trade data was affected by the implementation of the HTS due to changes in the metallurgical specifications of alloy steel and two important subsets of alloy steel: stainless steel and tool steel. In the case of alloy steel and tool steel, definitions have been broadened in some areas and narrowed in others, making it difficult to determine the net impact on trade figures. In the case of stainless steel, the definition has been broadened. Under the TSUS stainless steel was defined as any alloy steel which contained, by weight, less than 1 percent of carbon and over 11.5 percent of chromium; the HTS defines stainless steel as alloy steels containing, by weight, 1.2 percent or less of carbon and 10.5 percent or more of chromium, with or without other elements.

Following consultation with the U.S. Department of Commerce, the ITC staff made the following revision to the June, July and September 1990 export data: 686 tons of June 1990 tool steel exports to Iraq, valued at \$1,411,000, have been reclassified as electrical sheet and strip; 1,681 tons of July 1990 tool steel exports to Iraq, valued at \$2,360,000, have been similarly reclassified; and 25,122 tons of September 1990 stainless plate exports to France, valued at \$9,162,041, have been reclassified as carbon slab exports.

Product coverage under the new VRAs (negotiated during 1989) differs slightly from that under the original VRAs (negotiated during 1984-5). For the purpose of statistical continuity, product coverage in this report has remained unchanged. The categories affected by these modifications include carbon and certain alloy sheet and strip (HTS numbers 7208.90.00, 7209.90.00, 7211.90.00, 7225.90.00 have been added to the new VRAs) and stainless sheet and strip (7219.90.00 and 7220.90.00 have also been added). In addition, HTS numbers 7206.90.00 (previously included under carbon and certain alloy semifinished steel) and 7302.30.00 (rails and related products) have been excluded from the new VRAs. The overall impact of these changes is relatively minor; with modifications, overall 1990 imports would have increased one percent.

The rails and related products category includes both new and used rails (see appendix E for complete definition). Of the 303,596 tons of rails and related products imported into the United States during 1991, 29 percent (or 102,551 tons) were used rails.

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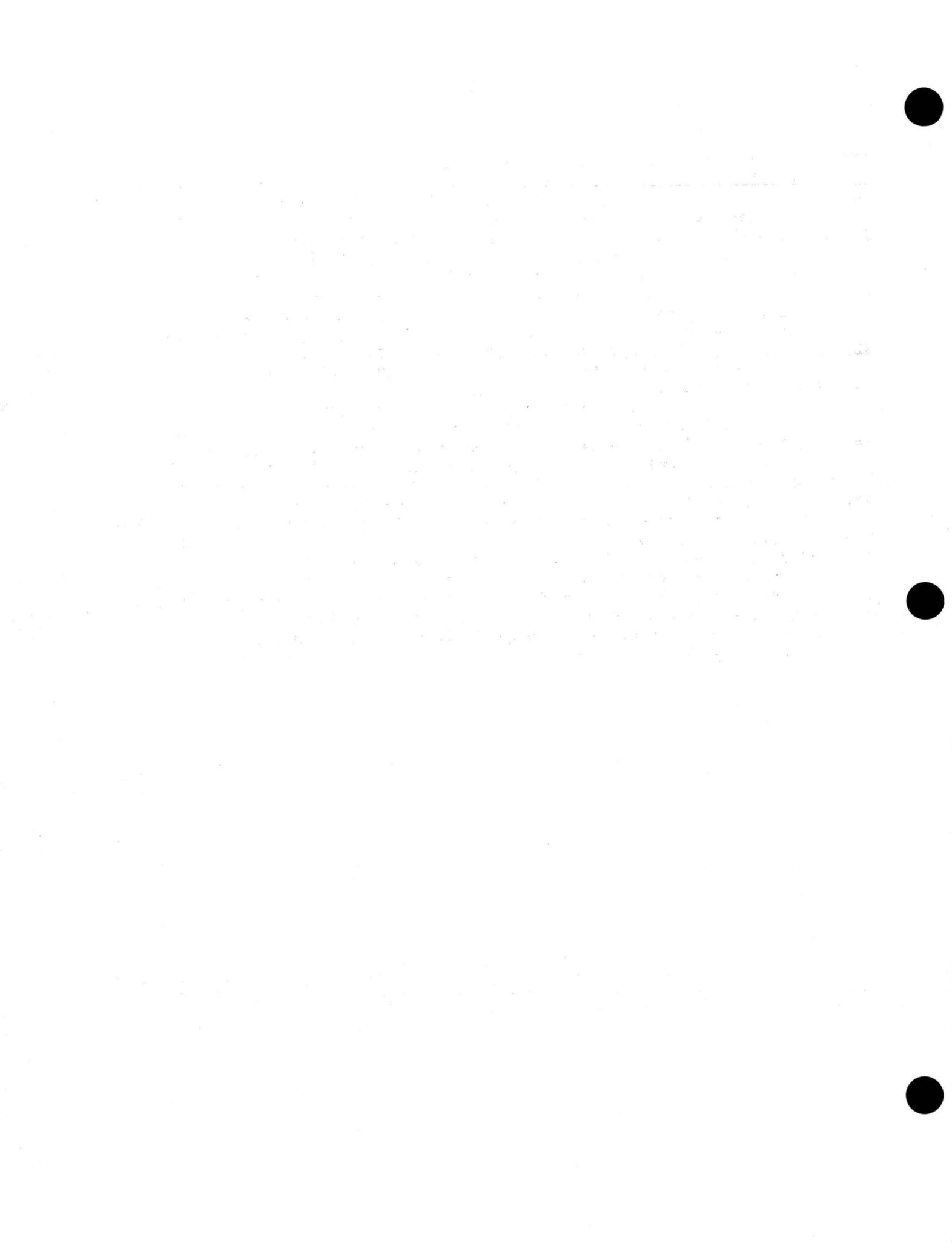


Table 1

Steel: U.S. raw steel production, capacity utilization, continuous cast steel, employment, wages, shipments, imports, exports, apparent consumption, net sales, net income, 1987-91

	1987	1988	1989	1990	1991
Raw steel:					
Production (1,000 short tons)...	89,151	99,924	97,480	98,906	87,310
Capacity utilization (percent)...	79.5	89.2	84.1	84.7	74.2
Continuously cast (percent).....	59.8	61.3	64.6	67.4	75.7
Employment:					
Total (thousands) ¹	268.4	278.5	279.2	275.4	² 260.9
Production workers (thousands) ¹	202.9	215.5	215.4	211.3	² 198.3
Hourly employment cost ³ (dollars).....	23.71	24.65	24.63	25.62	27.64
Steel:					
Shipments (1,000 short tons)....	76,654	83,840	84,259	84,981	78,868
Imports (1,000 short tons).....	20,938	21,869	18,219	17,959	16,179
Exports (1,000 short tons).....	1,176	2,152	4,692	4,509	6,617
Apparent consumption (1,000 short tons).....	96,416	103,558	97,786	98,431	88,431
Ratio of imports to consumption (percent).....	21.7	21.1	18.6	18.2	18.3
Export-shipment ratio (percent).....	1.5	2.6	5.6	5.3	8.4
Steel operations:					
Net steel sales (million dollars).....	26,933	32,466	31,525	29,424	⁴ 19,267
Net steel income (million dollars).....	1,077	(567)	1,597	(220)	⁴ (947)
Ratio of income to net sales (percent).....	4	(1.7)	5.1	-0.7	⁴ (4.9)

¹ These figures represent employment in Standard Industrial Code (SIC) 331. (See Notes for explanation).

² Preliminary.

³ Total employment costs (including benefits) of employees receiving wages.

⁴ Figures represent January to September time period, and reflect operating (not net) income. They are based on reporting companies representing 68 percent of the industry in terms of raw steel production.

Source: Compiled from data of the American Iron & Steel Institute and official statistics of the U.S. Department of Commerce and the U.S. Department of Labor (Bureau of Labor Statistics).

Table 2.--Steel mill products and certain fabricated steel products: U.S. producers shipments,
by product and grade of steel, 1987-1991

(Short tons)

Item	1987	1988	1989	1990	1991
All grades of steel:					
Semifinished-----	1,593,216	1,927,658	1,850,245	1,916,575	2,488,916
Plate-----	4,047,919	7,327,887	7,293,115	7,944,624	6,938,482
Sheet and strip-----	43,288,266	44,707,915	45,376,975	43,815,735	40,284,329
Bars & certain shapes 1/-----	13,575,114	14,488,773	14,510,007	14,726,831	13,213,553
Wire rod-----	3,840,494	4,048,230	4,229,889	4,396,283	4,382,845
Wire-----	800,063	1,072,698	1,005,407	917,950	864,492
Wire products-----	304,761	3/	3/	3/	3/
Structural shapes & units-----	5,119,714	5,208,754	5,438,404	6,092,821	5,721,532
Rails & related products-----	514,647	615,303	544,771	518,593	486,185
Pipe and tube-----	3,569,647	4,443,251	4,010,591	4,651,570	4,488,014
Total-----	76,653,841	83,840,469	84,259,404	84,980,982	78,868,348
Carbon & certain alloy 2/ steel:					
Semifinished-----	1,516,152	1,851,197	1,753,249	1,873,588	2,409,172
Plate-----	3,888,838	7,145,009	7,123,691	7,738,559	6,760,594
Sheet and strip-----	42,347,623	43,663,695	44,419,414	42,856,122	39,319,202
Bars & certain shapes-----	13,391,238	14,284,744	14,304,189	14,531,409	13,027,958
Wire rod-----	3,792,740	3,990,472	4,193,118	4,291,153	4,348,923
Wire-----	773,329	1,043,112	980,707	894,750	841,002
Wire products-----	304,761	3/	3/	3/	3/
Structural shapes & units-----	5,119,714	5,208,754	5,438,404	6,092,821	5,721,082
Rails & related products-----	514,647	615,303	544,771	518,593	486,185
Pipe and tube-----	3,527,867	4,387,761	3,962,470	4,610,197	4,453,781
Total-----	75,176,909	82,190,047	82,720,013	83,407,192	77,367,899
Stainless & alloy tool steel:					
Stainless steel:					
Semifinished-----	77,064	76,461	96,996	42,987	79,744
Plate-----	159,081	182,878	169,424	206,065	177,888
Sheet and strip-----	940,643	1,044,220	957,561	959,613	965,127
Bars & certain shapes-----	125,441	139,752	138,618	137,717	134,405
Wire rod-----	47,754	57,758	36,771	105,130	33,922
Wire-----	26,734	29,586	24,700	23,200	23,490
Pipe and tube-----	41,780	55,490	48,121	41,373	34,233
Tool steel (all forms)-----	58,435	64,277	67,200	57,705	51,190
Total-----	1,476,932	1,650,422	1,539,391	1,573,790	1,499,999

1/ Includes tool steel.

2/ Certain alloy refers to alloy steel other than stainless or tool steel.

3/ Shipment and apparent consumption data for wire and wire products have been combined and are reported in the category designated "wire".

Source: Compiled from data of the American Iron & Steel Institute.

Table 3.--Steel mill products and certain fabricated steel products: U.S. imports
by product and grade of steel, 1987-1991

(Short tons)

Item	1987	1988	1989	1990	1991
All grades of steel:					
Semifinished-----	2,288,995	2,844,979	2,197,811	2,362,820	2,045,572
Plate-----	1,566,694	1,872,937	1,437,109	1,572,722	1,291,064
Sheet and strip-----	7,875,891	7,303,964	6,443,362	6,866,501	6,407,872
Bars & certain shapes 1/-----	1,359,758	1,445,932	1,356,035	1,119,085	1,041,496
Wire rod-----	1,467,030	1,493,833	1,150,116	979,241	846,923
Wire-----	555,981	540,380	494,303	432,336	391,804
Wire products-----	649,377	572,451	703,602	660,325	511,839
Structural shapes & units-----	2,153,669	2,188,467	1,640,361	1,020,593	604,361
Rails & related products-----	245,988	319,432	322,985	349,555	303,596
Pipe and tube-----	2,775,091	3,286,690	2,472,802	2,595,989	2,734,661
Total-----	20,938,474	21,869,065	18,218,486	17,959,167	16,179,188
Carbon & certain alloy 2/ steel:					
Semifinished-----	2,232,270	2,782,572	2,135,690	2,301,998	1,996,610
Plate-----	1,555,577	1,857,090	1,419,396	1,552,071	1,269,565
Sheet and strip-----	7,746,596	7,185,380	6,302,844	6,712,159	6,247,191
Bars & certain shapes-----	1,281,168	1,361,113	1,264,305	1,035,255	943,845
Wire rod-----	1,448,720	1,474,623	1,128,417	956,113	821,026
Wire-----	536,897	519,727	472,984	414,008	374,750
Wire products-----	649,377	572,451	703,602	660,325	511,839
Structural shapes & units-----	2,153,669	2,188,467	1,640,361	1,020,593	604,361
Rails & related products-----	245,988	319,432	322,985	349,555	303,596
Pipe and tube-----	2,748,644	3,249,937	2,435,544	2,548,769	2,686,443
Total-----	20,598,906	21,510,792	17,826,128	17,550,846	15,759,226
Stainless & alloy tool steel:					
Stainless steel:					
Semifinished-----	56,725	62,407	62,121	60,822	48,962
Plate-----	11,118	15,847	17,713	20,651	21,498
Sheet and strip-----	129,295	118,584	140,519	154,342	160,680
Bars & certain shapes-----	37,991	40,724	43,417	44,526	52,493
Wire rod-----	18,311	19,210	21,698	23,128	25,897
Wire-----	19,084	20,653	21,319	18,328	17,054
Pipe and tube-----	26,448	36,752	37,258	47,220	48,218
Tool steel (all forms)-----	40,599	44,095	48,313	39,304	45,158
Total-----	339,571	358,272	392,358	408,321	419,960

1/ Includes tool steel.

2/ Certain alloy refers to alloy steel other than stainless or tool steel.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 4.--Steel mill products and certain fabricated steel products: U.S. exports of domestic merchandise, by product and grade of steel, 1987-1991

(Short tons)

Item	1987	1988	1989	1990	1991
All grades of steel:					
Semifinished-----	73,543	61,430	390,812	497,199	699,080
Plate-----	96,538	119,393	630,689	483,452	731,398
Sheet and strip-----	556,991	1,374,056	2,521,649	1,766,622	2,774,801
Bars & certain shapes 1/-----	121,869	141,461	258,660	451,278	585,849
Wire rod-----	8,217	10,161	36,093	106,632	166,455
Wire-----	26,669	36,668	31,344	70,052	89,415
Wire products-----	23,257	27,847	32,160	41,548	51,552
Structural shapes & units-----	101,373	111,614	260,750	495,007	657,019
Rails & related products-----	15,755	18,855	86,464	126,629	108,056
Pipe and tube-----	152,155	250,390	462,992	470,779	753,109
Total-----	1,176,367	2,151,875	4,691,593	4,509,198	6,616,734
Carbon & certain alloy 2/ steel:					
Semifinished-----	71,362	58,598	376,984	515,848	679,017
Plate-----	92,057	107,546	623,412	446,843	713,287
Sheet and strip-----	501,010	1,328,485	2,475,995	1,710,621	2,691,839
Bars & certain shapes-----	111,619	124,911	223,749	428,311	559,010
Wire rod-----	6,889	8,676	30,588	101,219	162,231
Wire-----	22,863	32,209	28,730	66,453	86,775
Wire products-----	23,257	27,847	32,160	41,548	51,552
Structural shapes & units-----	101,373	111,614	260,750	495,007	657,019
Rails & related products-----	15,755	18,855	86,464	126,629	108,056
Pipe and tube-----	143,405	244,192	434,925	457,336	738,176
Total-----	1,089,590	2,062,933	4,573,757	4,389,815	6,446,962
Stainless & alloy tool steel:					
Stainless steel:					
Semifinished-----	2,181	2,833	13,829	6,472	20,063
Plate-----	4,481	11,847	7,277	11,487	18,111
Sheet and strip-----	55,981	45,571	45,653	58,368	82,962
Bars & certain shapes-----	7,189	12,047	16,399	16,005	16,989
Wire rod-----	1,328	1,486	5,505	5,413	4,224
Wire-----	3,806	4,459	2,614	3,599	2,640
Pipe and tube-----	8,751	6,198	8,067	13,443	14,934
Tool steel (all forms)-----	3,061	4,502	18,492	4,594	9,850
Total-----	86,778	88,943	117,836	119,381	169,773

1/ Includes tool steel.

2/ Certain alloy refers to alloy steel other than stainless or tool steel.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 5.--Steel mill products and certain fabricated steel products:
Apparent U.S. consumption, by product and grade of steel, 1987-1991

(Short tons)

Item	1987	1988	1989	1990	1991
All grades of steel:					
Semifinished-----	3,808,668	4,711,207	3,657,244	3,782,196	3,835,408
Plate-----	5,518,075	9,081,431	8,099,535	9,033,894	7,498,148
Sheet and strip-----	50,607,166	50,637,823	49,298,688	48,915,614	43,917,400
Bars & certain shapes 1/-----	14,813,003	15,793,244	15,607,402	15,394,638	13,669,200
Wire rod-----	5,299,307	5,531,902	5,343,912	5,268,892	5,063,313
Wire-----	1,329,375	2,121,014	2,139,808	1,899,011	1,627,168
Wire products-----	930,881	3/	3/	3/	3/
Structural shapes & units-----	7,172,010	7,285,607	6,818,015	6,618,407	5,668,874
Rails & related products-----	744,880	915,880	781,292	741,519	681,725
Pipe and tube-----	6,192,583	7,479,551	6,040,401	6,776,780	6,469,566
Total-----	96,415,948	103,557,659	97,786,297	98,430,951	88,430,802
Carbon & certain alloy 2/ steel:					
Semifinished-----	3,677,060	4,575,171	3,511,955	3,659,738	3,726,765
Plate-----	5,352,358	8,894,553	7,919,675	8,843,787	7,316,872
Sheet and strip-----	49,593,209	49,520,590	48,246,263	47,857,660	42,874,554
Bars & certain shapes-----	14,560,787	15,520,946	15,344,745	15,138,353	13,412,793
Wire rod-----	5,234,571	5,456,419	5,290,947	5,146,047	5,007,718
Wire-----	1,287,363	2,075,234	2,096,403	1,861,082	1,589,264
Wire products-----	930,881	3/	3/	3/	3/
Structural shapes & units-----	7,172,010	7,285,607	6,818,015	6,618,407	5,668,424
Rails & related products-----	744,880	915,880	781,292	741,519	681,725
Pipe and tube-----	6,133,106	7,393,506	5,963,089	6,701,630	6,402,048
Total-----	94,686,225	101,637,906	95,972,384	96,568,223	86,680,163
Stainless & alloy tool steel:					
Stainless steel:					
Semifinished-----	131,608	136,035	145,288	97,337	108,643
Plate-----	165,718	186,878	179,860	215,229	181,275
Sheet and strip-----	1,013,957	1,117,233	1,052,427	1,055,587	1,042,845
Bars & certain shapes-----	156,243	168,429	165,636	166,238	169,909
Wire rod-----	64,737	75,482	52,964	122,845	55,595
Wire-----	42,012	45,780	43,405	37,929	37,904
Pipe and tube-----	59,477	86,044	77,312	75,150	67,517
Tool steel (all forms)-----	95,973	103,870	97,021	92,415	86,498
Total-----	1,729,725	1,919,751	1,813,913	1,862,730	1,750,186

1/ Includes tool steel.

2/ Certain alloy refers to alloy steel other than stainless or tool steel.

3/ Shipment and apparent consumption data for wire and wire products have been combined and are reported in the category designated "wire".

Source: Compiled from data of the American Iron & Steel Institute, and official statistics of the U.S. Department of Commerce.

Table 6.--Steel mill products and certain fabricated steel products: U.S. imports as a percent of apparent U.S. consumption, by product and grade of steel, 1987-1991

(Percent)

Item	1987	1988	1989	1990	1991
All grades of steel:					
Semifinished-----	60.1	60.4	60.1	62.5	53.3
Plate-----	28.4	20.6	17.7	17.4	17.2
Sheet and strip-----	15.6	14.4	13.1	14.0	14.6
Bars & certain shapes 1/-----	9.2	9.2	8.7	7.3	7.6
Hire rod-----	27.7	27.0	21.5	18.6	16.7
Hire-----	41.8	52.5	56.0	57.5	55.5
Hire products-----	69.8	3/	3/	3/	3/
Structural shapes & units-----	30.0	30.0	24.1	15.4	10.7
Rails & related products-----	33.0	34.9	41.3	47.1	44.5
Pipe and tube-----	44.8	43.9	40.9	38.3	42.3
Total-----	21.7	21.1	18.6	18.2	18.3
Carbon & certain alloy 2/ steel:					
Semifinished-----	60.7	60.8	60.8	62.9	53.6
Plate-----	29.1	20.9	17.9	17.5	17.4
Sheet and strip-----	15.6	14.5	13.1	14.0	14.6
Bars & certain shapes-----	8.8	8.8	8.2	6.8	7.0
Hire rod-----	27.7	27.0	21.3	18.6	16.4
Hire-----	41.7	52.6	56.1	57.7	55.8
Hire products-----	69.8	3/	3/	3/	3/
Structural shapes & units-----	30.0	30.0	24.1	15.4	10.7
Rails & related products-----	33.0	34.9	41.3	47.1	44.5
Pipe and tube-----	44.8	44.0	40.8	38.0	42.0
Total-----	21.8	21.2	18.6	18.2	18.2
Stainless & alloy tool steel:					
Stainless steel:					
Semifinished-----	43.1	45.9	42.8	62.5	45.1
Plate-----	6.7	8.5	9.8	9.6	11.9
Sheet and strip-----	12.8	10.6	13.4	14.6	15.4
Bars & certain shapes-----	24.3	24.2	26.2	26.8	30.9
Hire rod-----	28.3	25.4	41.0	18.8	46.6
Hire-----	45.4	45.1	49.1	48.3	45.0
Pipe and tube-----	44.5	42.7	48.2	62.8	71.4
Tool steel (all forms)-----	62.3	62.5	69.8	42.5	52.2
Total-----	19.6	18.7	21.6	21.9	24.0

1/ Includes tool steel.

2/ Certain alloy refers to alloy steel other than stainless or tool steel.

3/ Shipment and apparent consumption data for wire and wire products have been combined and are reported in the category designated "wire".

Source: Compiled from data of the American Iron & Steel Institute, and official statistics of the U.S. Department of Commerce.

Table 7.--Steel mill products and certain fabricated steel products: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	282,085	274,578	310,503	368,973
Austria -----	138,101	86,486	146,207	157,678
Brazil -----	1,476,896	1,391,142	1,479,726	1,307,923
Czechoslovakia -----	37,301	25,693	7,985	19,035
East Germany -----	92,239	55,867	40,670	0
EC countries-----	6,276,220	5,676,977	5,541,445	4,737,994
Finland -----	212,989	216,716	218,907	196,864
Hungary -----	30,094	28,420	31,568	18,505
Japan -----	4,343,898	3,695,906	3,101,236	2,775,688
Mexico -----	488,367	467,605	689,256	534,216
China -----	68,840	62,028	58,185	38,779
Poland -----	89,648	72,786	59,850	76,601
Romania -----	102,548	49,451	46,272	53,398
Republic of South Africa -----	1,693	756	1,290	415
Korea -----	1,572,602	1,191,970	1,517,953	1,580,864
Trinidad and Tobago -----	31,518	48,028	70,160	54,329
Venezuela -----	169,383	173,642	212,853	100,032
Yugoslavia -----	12,751	8,222	23,764	34,100
Total-----	15,427,173	13,526,273	13,557,830	12,055,394
Other countries:				
Canada -----	3,430,920	3,218,260	3,140,772	3,129,136
Sweden -----	575,055	254,507	295,107	302,325
Argentina -----	558,011	227,866	202,853	198,550
Taiwan -----	252,112	164,019	211,819	140,697
Turkey -----	307,985	211,804	143,581	104,418
New Zealand -----	88,980	78,564	106,104	72,233
India -----	100,261	106,110	108,323	34,682
Colombia -----	170	1,689	8,034	24,336
Norway -----	181,502	90,181	16,973	20,288
Singapore -----	153,164	78,918	30,849	14,980
All others-----	793,732	260,294	136,923	82,148
Total-----	6,441,892	4,692,212	4,401,338	4,123,793
Grand total-----	21,869,065	18,218,485	17,959,168	16,179,187

Table 7.--Steel mill products and certain fabricated steel products: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	118,494	126,633	121,748	134,921
Austria -----	82,907	67,871	90,019	88,976
Brazil -----	463,632	473,506	435,980	456,375
Czechoslovakia -----	12,019	8,890	2,590	7,084
East Germany -----	31,340	18,908	12,352	-
EC countries-----	2,981,610	2,945,914	2,752,129	2,449,410
Finland -----	101,105	91,999	104,734	81,447
Hungary -----	8,600	9,155	8,890	4,919
Japan -----	2,562,005	2,426,329	2,093,952	1,947,128
Mexico -----	240,693	252,029	323,139	267,440
China -----	27,574	34,627	33,905	23,260
Poland -----	30,281	26,614	21,186	23,634
Romania -----	36,063	17,374	14,742	17,319
Republic of South Africa ----	1,487	594	1,044	423
Korea -----	770,065	638,311	726,203	717,483
Trinidad and Tobago -----	8,602	14,695	19,653	14,283
Venezuela -----	53,699	61,681	75,805	40,684
Yugoslavia -----	5,947	3,423	9,623	12,140
Total-----	7,536,123	7,218,553	6,847,694	6,286,926
Other countries:				
Canada -----	1,706,602	1,697,641	1,509,728	1,535,618
Sweden -----	358,878	278,349	254,885	246,786
Argentina -----	221,845	110,210	98,746	84,481
Taiwan -----	134,663	107,331	135,854	106,362
Turkey -----	93,038	65,996	45,013	30,927
New Zealand -----	35,995	41,302	42,416	28,242
India -----	43,769	45,816	52,088	23,264
Colombia -----	188	966	3,243	8,572
Norway -----	55,371	33,921	10,395	13,199
Singapore -----	50,365	32,735	18,503	10,695
All others-----	276,067	116,058	75,604	53,805
Total-----	2,976,781	2,530,325	2,246,475	2,141,951
Grand total-----	10,512,904	9,748,878	9,094,169	8,428,877

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 8.--Steel other than semifinished steel: 1/ U.S. imports for consumption, and imports as a percent of apparent U.S. consumption, by specified sources, 1988-1991

See footnotes at end of table.

Table 8.--Steel other than semifinished steel: 1/ U.S. imports for consumption, and imports as a percent of apparent U.S. consumption, by specified sources, 1986-1991--Continued

Item	1988	1989	1990	1991
Import/consumption ratio (percent)				
<hr/>				
VRA countries:				
Australia -----	.2	.2	.2	.2
Austria -----	.1	.1	.2	.2
Brazil -----	.8	.8	.7	.7
Czechoslovakia -----	2/	2/	2/	2/
East Germany -----	.1	.1	2/	2/
EC-----	5.2	5.1	5.0	4.8
Finland -----	.2	.2	.2	.2
Hungary -----	2/	2/	2/	2/
Japan -----	4.4	3.9	3.3	3.3
Mexico -----	.4	.4	.5	.4
China -----	.1	.1	.1	2/
Poland -----	.1	.1	.1	.1
Romania -----	.1	.1	2/	.1
Republic of South Africa -----	2/	2/	2/	2/
Korea -----	1.6	1.2	1.6	1.9
Trinidad and Tobago -----	2/	.1	.1	.1
Venezuela -----	.1	.1	.2	.1
Yugoslavia -----	2/	2/	2/	2/
Total-----	<u>13.5</u>	<u>12.4</u>	<u>12.2</u>	<u>12.2</u>
Other countries:				
Canada -----	3.4	3.3	3.1	3.6
Argentina -----	.5	.2	.2	.2
Sweden -----	.3	.2	.2	.2
Taiwan -----	.3	.2	.2	.2
Turkey -----	.3	.2	.2	.1
New Zealand -----	2/	.1	.1	.1
India -----	.1	.1	.1	2/
Colombia -----	2/	2/	2/	2/
Norway -----	.1	.1	2/	2/
Singapore -----	.2	.1	2/	2/
All others-----	.8	.3	.1	.1
Total-----	<u>6.0</u>	<u>4.8</u>	<u>4.4</u>	<u>4.7</u>
Grand total-----	<u>19.5</u>	<u>17.2</u>	<u>16.6</u>	<u>16.8</u>

1/ Semifinished steel includes ingots, blooms, billets, slabs, and sheet bars.

2/ Less than 0.05 percent.

Source: Compiled from data of the American Iron and Steel Institute and from official statistics of the U.S. Department of Commerce.

Table 9.--Semifinished steel: 1/ U.S. imports for consumption, by specified sources, 1988-1991

Source	Unadjusted	1988	1989	1990	1991
	1991 Ceiling 2/				
Quantity (short tons)					
VRA countries:					
Australia	137,730	79,402	68,747	129,746	160,936
Austria	3/	73	0	2	22
Brazil	836,668	721,813	666,882	813,302	704,348
Czechoslovakia	3/	0	0	0	0
East Germany	3/	0	0	0	0
EC countries	601,578	1,192,072	944,846	872,912	717,577
Finland	12,665	3,239	34,551	6,383	46,472
Hungary	3/	0	0	0	0
Japan	88,000	79,206	87,185	11,253	5,551
Mexico	270,000	63,916	77,158	236,008	201,482
China	3/	0	5	12	0
Poland	3/	353	293	87	0
Romania	3/	0	0	0	0
Republic of South Africa	3/	0	7	0	0
Korea	271,000	57,445	66,033	156	1
Trinidad and Tobago	24,250	3,058	0	0	0
Venezuela	69,000	49,663	48,482	0	0
Yugoslavia	3/	0	0	0	0
Total	5/	2,250,240	1,994,189	2,069,861	1,836,389
Other countries:					
Sweden	5/	306,050	71,223	76,909	104,915
Canada	5/	103,838	119,773	215,304	103,807
Soviet Union	5/	47,078	5,860	0	455
Switzerland	5/	0	31	508	6
Taiwan	5/	0	0	22	1
Israel	5/	0	0	0	0
Norway	5/	64,585	5,877	6	0
Indonesia	5/	4,154	0	0	0
Argentina	5/	22,820	855	143	0
Peru	5/	0	0	47	0
All others	5/	46,214	0	18	0
Total	5/	594,739	203,619	292,957	209,184
Grand total	5/	2,844,979	2,197,808	2,362,818	2,045,573

1/ Semifinished steel includes ingots, blooms, billets, slabs, and sheet bars.

2/ Restraint level applicable to 12-month period ending December 31, 1991.

3/ No explicit semifinished steel provisions.

4/ The United States did not renew its voluntary restraint agreement with South Africa. See preface and notes for explanation.

5/ Not applicable.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 10.--Carbon and certain alloy 1/ semifinished steel: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
<hr/>				
VRA countries:				
Australia -----	79,402	68,747	129,746	160,936
Austria -----	0	0	2	22
Brazil -----	720,130	666,882	813,302	704,348
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	1,181,448	930,852	852,870	706,828
Finland -----	3,239	34,551	6,383	46,472
Hungary -----	0	0	0	2/
Japan -----	77,271	86,487	9,574	3,450
Mexico -----	63,916	76,982	235,733	201,417
China -----	0	5	12	2/
Poland -----	279	0	45	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	7	0	0
Korea -----	57,445	66,033	72	0
Trinidad and Tobago -----	3,058	0	0	0
Venezuela -----	49,663	48,482	0	0
Yugoslavia -----	0	0	0	0
Total-----	2,235,851	1,979,028	2,047,739	1,823,473
<hr/>				
Other countries:				
Sweden -----	291,559	60,821	64,589	90,597
Canada -----	70,310	83,218	188,925	82,534
Switzerland -----	2/	31	508	5
Taiwan -----	0	0	21	2/
Soviet Union -----	47,078	5,860	0	0
New Zealand -----	46,214	0	2/	0
Indonesia -----	4,154	0	0	0
Argentina -----	22,820	855	143	0
Norway -----	64,585	5,877	6	0
Peru -----	0	0	47	0
All others-----	0	0	17	0
Total-----	546,720	156,662	254,256	173,136
<hr/>				
Grand total-----	2,782,571	2,135,690	2,301,995	1,996,609
<hr/>				

See footnote(s) at end of table.

Table 10.--Carbon and certain alloy 1/ semifinished steel: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	15,165	14,426	26,553	35,603
Austria -----	0	0	69	114
Brazil -----	161,215	166,678	179,191	200,631
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	290,884	244,360	209,194	166,976
Finland -----	770	10,811	1,679	11,354
Hungary -----	0	0	0	3
Japan -----	19,499	24,972	3,965	1,059
Mexico -----	17,342	19,722	52,447	45,807
China -----	0	7	12	5
Poland -----	69	0	17	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	18	0	0
Korea -----	14,573	16,133	44	0
Trinidad and Tobago -----	617	0	0	0
Venezuela -----	11,049	10,072	0	0
Yugoslavia -----	0	0	0	0
Total-----	531,183	507,199	473,171	461,552
Other countries:				
Sweden -----	73,544	15,249	13,109	19,125
Canada -----	21,337	27,484	51,160	24,984
Switzerland -----	3	155	544	125
Taiwan -----	0	0	25	5
Soviet Union -----	6,946	843	0	0
New Zealand -----	13,489	0	7	0
Indonesia -----	1,196	0	0	0
Argentina -----	6,147	336	116	0
Norway -----	14,757	1,288	40	0
Peru -----	0	0	44	0
All others-----	0	0	7	0
Total-----	137,419	45,355	65,052	44,239
Grand total-----	668,602	552,554	538,223	505,791

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

2/ Less than 0.5 short ton.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 11.--Carbon and certain alloy 1/ steel plate: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	5,935	4,634	3,690	708
Austria -----	21,426	5,851	2,243	107
Brazil -----	171,537	134,769	86,554	87,312
Czechoslovakia -----	16,455	17,274	5,673	8,551
East Germany -----	17,270	10,342	11,859	0
EC countries-----	515,974	521,489	654,277	546,178
Finland -----	96,135	108,885	111,410	69,827
Hungary -----	16,146	15,300	16,333	9,584
Japan -----	44,538	45,639	32,833	37,202
Mexico -----	20,867	26,919	42,547	19,343
China -----	26	0	0	0
Poland -----	30,860	28,960	26,695	38,357
Romania -----	68,325	35,438	31,650	36,428
Republic of South Africa -----	0	0	0	0
Korea -----	68,405	46,109	36,677	28,038
Trinidad and Tobago -----	389	2,204	0	0
Venezuela -----	6,653	10,033	13,467	1,402
Yugoslavia -----	1,423	0	10,371	18,647
Total-----	1,102,364	1,013,846	1,086,279	901,684
Other countries:				
Canada -----	419,556	266,881	271,734	253,456
Sweden -----	110,743	78,601	118,078	92,202
Argentina -----	44,564	233	2,817	8,228
Soviet Union -----	0	0	0	7,781
New Zealand -----	3,849	5,544	10,818	6,216
Switzerland -----	86	0	0	2/
Peru -----	0	2/	0	0
Niue -----	158	0	0	0
Algeria -----	8,054	0	0	0
Egypt -----	21,147	0	0	0
All others-----	146,568	54,288	62,345	0
Total-----	754,725	405,547	465,792	367,883
Grand total-----	1,857,089	1,419,393	1,552,071	1,269,567

See footnote(s) at end of table.

Table 11.--Carbon and certain alloy 1/ steel plate: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	3,190	2,371	1,566	324
Austria -----	8,467	2,465	947	197
Brazil -----	67,413	44,586	30,212	31,011
Czechoslovakia -----	5,280	5,498	1,595	2,562
East Germany -----	5,566	3,312	3,431	0
EC countries-----	219,700	215,157	241,057	192,146
Finland -----	38,528	39,347	39,135	22,939
Hungary -----	4,494	4,847	4,597	2,449
Japan -----	27,120	27,889	22,038	27,335
Mexico -----	8,122	10,816	14,222	5,903
China -----	28	0	0	0
Poland -----	9,971	9,915	8,134	10,945
Romania -----	22,680	11,827	9,354	10,913
Republic of South Africa -----	0	0	0	0
Korea -----	28,496	17,725	11,850	8,299
Trinidad and Tobago -----	122	630	0	0
Venezuela -----	2,062	3,172	3,309	621
Yugoslavia -----	461	0	3,654	4,889
Total-----	451,700	399,557	395,101	320,533
Other countries:				
Canada -----	175,573	109,513	97,947	89,838
Sweden -----	52,247	39,192	51,528	39,508
Argentina -----	14,038	81	678	1,589
Soviet Union -----	0	0	0	1,948
New Zealand -----	1,350	1,671	2,725	1,509
Switzerland -----	38	0	0	4
Peru -----	0	6	0	0
Niue -----	55	0	0	0
Algeria -----	2,330	0	0	0
Egypt -----	6,652	0	0	0
All others-----	47,686	17,920	20,658	0
Total-----	299,969	168,383	173,536	134,396
Grand total-----	751,669	567,940	568,637	454,929

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

2/ Less than 0.5 short ton.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 12.--Carbon and certain alloy 1/ steel sheet and strip: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	169,338	173,844	150,452	182,057
Austria -----	80,141	44,936	96,064	70,486
Brazil -----	279,788	374,903	274,960	227,037
Czechoslovakia -----	0	10	0	920
East Germany -----	50,830	26,330	15,024	0
EC countries-----	2,249,090	1,968,270	2,085,036	1,881,056
Finland -----	85,164	56,876	78,656	67,129
Hungary -----	13,211	11,903	15,187	8,860
Japan -----	2,209,538	2,050,376	1,833,821	1,543,257
Mexico -----	139,529	117,694	129,930	88,650
China -----	0	456	84	22
Poland -----	11,005	0	0	0
Romania -----	6,731	52	0	0
Republic of South Africa -----	0	0	0	0
Korea -----	487,380	375,727	850,043	940,808
Trinidad and Tobago -----	63	0	532	9
Venezuela -----	57,246	59,756	82,810	17,840
Yugoslavia -----	0	32	917	407
Total-----	5,839,054	5,261,165	5,613,516	5,028,538
Other countries:				
Canada -----	856,040	858,289	807,843	937,725
Argentina -----	243,388	27,348	48,399	96,861
New Zealand -----	29,118	61,556	92,303	63,551
Taiwan -----	78,901	48,988	94,953	53,537
Sweden -----	51,007	21,448	32,381	45,522
Norway -----	14,466	20,341	14,291	19,923
Switzerland -----	54	46	632	895
Ecuador -----	0	0	0	346
Jordan -----	0	139	0	275
Antigua -----	104	0	451	13
All others-----	73,248	3,525	7,390	5
Total-----	1,346,326	1,041,680	1,098,643	1,218,653
Grand total-----	7,185,380	6,302,845	6,712,159	6,247,191

See footnote(s) at end of table.

Table 12.--Carbon and certain alloy 1/ steel sheet and strip: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	90,392	96,817	80,384	90,077
Austria -----	31,089	18,681	34,421	23,027
Brazil -----	111,040	149,482	95,336	83,837
Czechoslovakia -----	0	3	0	286
East Germany -----	18,100	9,790	5,395	0
EC countries-----	1,045,288	951,315	919,785	791,725
Finland -----	32,525	22,393	26,096	24,961
Hungary -----	3,751	3,739	4,208	2,333
Japan -----	1,211,321	1,198,546	1,065,285	894,046
Mexico -----	77,632	69,852	76,165	50,967
China -----	0	211	137	13
Poland -----	5,049	0	0	0
Romania -----	2,176	36	0	0
Republic of South Africa -----	0	0	0	0
Korea -----	209,663	163,713	318,809	325,552
Trinidad and Tobago -----	19	0	252	3
Venezuela -----	22,121	26,436	30,280	6,588
Yugoslavia -----	0	17	540	331
Total-----	2,860,166	2,711,031	2,657,093	2,293,746
Other countries:				
Canada -----	381,804	403,293	358,257	405,174
Argentina -----	92,033	14,390	19,554	34,243
New Zealand -----	11,315	27,435	36,404	24,298
Taiwan -----	31,494	22,887	47,025	27,208
Sweden -----	39,376	28,193	30,770	35,870
Norway -----	7,909	12,185	8,452	12,108
Switzerland -----	67	80	688	1,069
Ecuador -----	0	0	0	126
Jordan -----	0	193	0	113
Antigua -----	159	0	261	24
All others-----	28,932	2,002	2,903	4
Total-----	593,089	510,658	504,314	540,237
Grand total-----	3,453,255	3,221,689	3,161,407	2,833,983

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 13.--Carbon and certain alloy 1/ steel bars and light shapes: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	826	1,433	996	2,005
Austria -----	693	541	355	603
Brazil -----	96,561	50,035	84,587	85,635
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	260,337	323,125	304,883	292,972
Finland -----	4,081	4,080	2,795	1,266
Hungary -----	146	0	0	0
Japan -----	107,959	131,880	92,407	84,049
Mexico -----	22,813	16,066	13,193	11,194
China -----	3,441	3,916	5,516	4,280
Poland -----	1,282	2,648	2,212	730
Romania -----	29	0	0	0
Republic of South Africa -----	0	0	0	24
Korea -----	74,249	62,652	39,102	20,105
Trinidad and Tobago -----	15,404	16,501	31,873	8,520
Venezuela -----	19,962	10,391	32,482	21,847
Yugoslavia -----	0	0	0	0
Total-----	607,783	623,268	610,401	533,230
Other countries:				
Canada -----	429,634	398,631	339,393	341,964
Turkey -----	102,560	109,153	31,970	27,370
Colombia -----	0	7	6,748	21,216
Argentina -----	50,982	48,289	22,515	6,389
Sweden -----	9,099	3,385	4,759	5,775
India -----	11,249	10,492	9,639	5,740
Malaysia -----	1,356	1,847	2,300	1,729
Taiwan -----	32,265	11,752	445	254
Switzerland -----	512	219	377	94
Tokelau Islands-----	0	0	0	46
All others-----	115,671	57,263	6,705	38
Total-----	753,328	641,038	424,851	410,615
Grand total-----	1,361,111	1,264,306	1,035,252	943,845

See footnote(s) at end of table.

Table 13.--Carbon and certain alloy ^{1/} steel bars and light shapes: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	332	669	349	790
Austria -----	667	1,024	876	1,178
Brazil -----	29,058	22,335	32,948	31,779
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	133,388	169,448	156,915	143,566
Finland -----	2,705	3,241	2,847	1,387
Hungary -----	63	0	0	0
Japan -----	49,339	73,081	59,060	54,969
Mexico -----	8,588	5,814	4,441	3,759
China -----	1,314	1,526	2,544	1,960
Poland -----	845	1,517	1,418	635
Romania -----	103	0	0	0
Republic of South Africa -----	0	0	0	19
Korea -----	20,439	19,087	12,671	5,966
Trinidad and Tobago -----	3,968	5,232	8,785	2,700
Venezuela -----	5,392	3,868	9,546	9,214
Yugoslavia -----	0	0	0	0
Total-----	256,201	306,842	292,400	257,922
Other countries:				
Canada -----	186,448	173,249	146,887	150,390
Turkey -----	28,951	32,827	11,117	9,451
Colombia -----	0	11	1,782	5,590
Argentina -----	16,442	18,563	8,873	2,502
Sweden -----	5,737	3,160	7,100	8,663
India -----	3,952	4,650	4,806	3,138
Malaysia -----	550	733	883	653
Taiwan -----	10,022	4,724	268	241
Switzerland -----	538	324	426	138
Tokelau Islands-----	0	0	0	1,623
All others-----	30,396	18,036	1,998	34
Total-----	283,036	256,277	184,140	182,423
Grand total-----	539,237	563,119	476,540	440,345

^{1/} Certain alloy refers to alloy steel other than stainless or tool steel.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 14.--Carbon and certain alloy 1/ steel wire rod: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	9,551	10,783	9,962	16,836
Austria -----	601	1,108	0	0
Brazil -----	58,383	57,858	70,254	19,547
Czechoslovakia -----	13,661	2,197	0	0
East Germany -----	16,306	12,583	11,934	0
EC countries-----	290,286	212,925	147,053	83,344
Finland -----	2,237	108	0	0
Hungary -----	0	67	0	0
Japan -----	276,003	201,891	182,818	193,795
Mexico -----	58,389	32,373	30,162	3,981
China -----	27	25	79	45
Poland -----	7,606	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea -----	875	176	18	0
Trinidad and Tobago -----	11,312	29,203	36,782	45,466
Venezuela -----	8,916	2,065	16,071	5,467
Yugoslavia -----	0	0	0	0
Total-----	754,153	563,362	505,133	368,481
Other countries:				
Canada -----	360,096	400,938	344,955	378,768
Turkey -----	126,791	75,596	89,832	64,336
Sweden -----	18,464	15,095	8,556	8,672
Taiwan -----	16,843	10,071	1,471	649
Argentina -----	0	276	877	84
India -----	0	22	0	19
Switzerland -----	10	0	3	15
Malaysia -----	2,355	19	0	0
All others-----	195,911	63,035	5,284	0
Total-----	720,470	565,052	450,978	452,543
Grand total-----	1,474,623	1,128,414	956,111	821,024

See footnote(s) at end of table.

Table 14.--Carbon and certain alloy 1/ steel wire rod: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	2,103	2,439	2,605	4,651
Austria -----	248	297	0	0
Brazil -----	16,380	16,652	18,309	5,002
Czechoslovakia -----	3,234	549	0	0
East Germany -----	3,547	3,014	2,762	0
EC countries-----	109,528	82,681	55,449	33,039
Finland -----	741	35	0	0
Hungary -----	0	30	0	0
Japan -----	124,039	96,067	83,354	89,057
Mexico -----	15,344	8,234	8,000	986
China -----	9	7	34	20
Poland -----	1,612	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea -----	389	112	11	0
Trinidad and Tobago -----	3,293	8,770	10,312	11,475
Venezuela -----	2,000	594	3,996	1,394
Yugoslavia -----	0	0	0	0
Total-----	282,467	219,481	184,832	145,624
Other countries:				
Canada -----	130,836	145,073	122,558	125,916
Turkey -----	32,337	20,896	23,185	15,559
Sweden -----	9,831	12,842	7,389	7,121
Taiwan -----	6,764	4,247	555	305
Argentina -----	0	137	378	30
India -----	0	11	0	9
Switzerland -----	41	0	1	25
Malaysia -----	622	6	0	0
All others-----	48,911	18,822	1,694	0
Total-----	229,342	202,034	155,760	148,965
Grand total-----	511,809	421,515	340,592	294,589

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 15.--Carbon and certain alloy 1/ steel wire: U.S. imports for consumption,
by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	4,488	4,189	4,849	4,880
Austria -----	1,731	1,782	1,612	1,098
Brazil -----	14,128	9,397	8,504	13,397
Czechoslovakia -----	0	24	0	0
East Germany -----	0	0	0	0
EC countries-----	168,480	139,816	115,313	88,833
Finland -----	476	368	660	44
Hungary -----	0	0	0	0
Japan -----	78,468	67,924	63,483	59,440
Mexico -----	2,712	1,407	3,259	3,977
China -----	9,720	12,165	8,228	7,418
Poland -----	116	201	122	215
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	22
Korea -----	7,736	7,512	4,003	4,944
Trinidad and Tobago -----	1,060	0	0	0
Venezuela -----	5,996	5,906	6,092	8,124
Yugoslavia -----	3	0	0	0
Total-----	295,114	250,691	216,125	192,392
Other countries:				
Canada -----	193,243	183,779	160,741	153,425
Taiwan -----	4,897	3,548	8,060	10,308
Sweden -----	7,532	7,601	7,240	7,738
India -----	4,108	5,266	6,759	6,653
Argentina -----	2,491	11,276	11,209	2,117
Chile -----	2,146	3,630	888	668
Dominican Republic -----	139	376	307	473
Indonesia -----	22	131	329	344
Switzerland -----	2,591	1,653	679	228
New Zealand -----	11	2	35	220
All others-----	7,434	5,031	1,635	186
Total-----	224,614	222,293	197,882	182,360
Grand total-----	519,728	472,984	414,007	374,752

See footnote(s) at end of table.

Table 15.--Carbon and certain alloy ^{1/} steel wire: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	2,018	1,844	2,060	2,160
Austria -----	2,584	2,976	3,178	2,383
Brazil -----	6,207	5,122	4,409	6,589
Czechoslovakia -----	0	16	0	0
East Germany -----	0	0	0	0
EC countries-----	141,210	126,019	109,254	88,513
Finland -----	231	198	396	20
Hungary -----	0	0	0	0
Japan -----	61,637	57,930	56,537	50,980
Mexico -----	1,320	914	1,991	2,407
China -----	4,165	5,530	3,797	3,540
Poland -----	59	129	73	123
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	8
Korea -----	4,667	4,890	3,162	3,588
Trinidad and Tobago -----	354	0	0	0
Venezuela -----	3,096	3,410	3,330	4,508
Yugoslavia -----	9	0	0	0
Total-----	227,557	208,978	188,187	164,819
Other countries:				
Canada -----	109,405	112,002	97,290	92,484
Taiwan -----	2,903	3,186	4,897	6,063
Sweden -----	10,678	9,482	8,990	9,278
India -----	1,518	1,974	2,752	3,690
Argentina -----	1,245	5,051	4,983	1,002
Chile -----	946	2,041	524	373
Dominican Republic -----	48	106	32	88
Indonesia -----	8	64	150	154
Switzerland -----	1,525	1,062	437	269
New Zealand -----	16	2	43	193
All others-----	3,052	3,054	1,218	110
Total-----	131,344	138,024	121,316	113,704
Grand total-----	358,901	347,002	309,503	278,523

^{1/} Certain alloy refers to alloy steel other than stainless or tool steel.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 16.--Carbon and certain alloy 1/ steel wire products: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	5	20	37	4
Austria -----	956	4,043	3,158	1,942
Brazil -----	15,018	10,401	12,446	11,622
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	38,365	86,677	78,806	63,172
Finland -----	1	51	2	4
Hungary -----	0	42	18	21
Japan -----	23,536	52,650	59,622	41,508
Mexico -----	13,693	24,461	34,023	26,959
China -----	36,866	42,981	42,136	23,727
Poland -----	16,070	15,255	9,780	10,354
Romania -----	143	0	0	0
Republic of South Africa -----	1,550	730	0	5
Korea -----	192,127	178,804	185,686	155,381
Trinidad and Tobago -----	94	0	295	0
Venezuela -----	1,352	16,639	13,415	6,688
Yugoslavia -----	7,314	5,961	5,188	2,465
Total-----	347,090	438,715	444,612	343,852
Other countries:				
Canada -----	98,251	114,763	98,435	97,098
Indonesia -----	18,621	27,489	22,699	14,540
Taiwan -----	13,715	17,331	14,687	11,071
Oman -----	0	2,031	5,706	7,469
United Arab Emirates -----	20,059	14,854	10,333	7,294
Turkey -----	23,631	10,713	12,540	6,891
Argentina -----	18,002	16,702	14,584	3,803
Chile -----	8,459	8,642	7,333	3,794
Honduras -----	202	1,137	1,571	2,644
Sweden -----	60	2,082	1,981	1,892
All others-----	24,361	49,145	25,844	11,492
Total-----	225,361	264,889	215,713	167,988
Grand total-----	572,451	703,604	660,325	511,840

See footnote(s) at end of table.

Table 16.--Carbon and certain alloy 1/ steel wire products: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	20	37	83	15
Austria -----	1,556	8,634	8,029	4,758
Brazil -----	7,169	6,038	6,663	6,834
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	33,725	135,555	146,208	119,049
Finland -----	96	67	8	10
Hungary -----	0	23	7	8
Japan -----	28,992	97,473	108,050	85,498
Mexico -----	8,903	17,781	26,856	20,775
China -----	14,640	25,832	24,600	14,611
Poland -----	5,403	5,354	3,967	3,967
Romania -----	44	0	0	0
Republic of South Africa -----	792	558	0	4
Korea -----	138,561	158,567	161,962	133,963
Trinidad and Tobago -----	27	0	116	0
Venezuela -----	387	5,224	5,173	2,370
Yugoslavia -----	3,027	2,456	2,111	970
Total-----	243,342	463,599	493,833	392,832
Other countries:				
Canada -----	70,198	93,747	83,213	79,704
Indonesia -----	6,881	11,595	10,045	5,970
Taiwan -----	12,448	19,677	16,622	13,823
Oman -----	0	871	2,509	2,853
United Arab Emirates -----	7,562	5,992	5,102	3,118
Turkey -----	8,700	5,485	6,588	3,288
Argentina -----	7,943	8,930	7,665	1,822
Chile -----	3,991	4,476	4,202	2,302
Honduras -----	79	505	686	1,464
Sweden -----	149	6,248	5,090	5,403
All others-----	15,779	31,805	22,450	14,451
Total-----	133,730	189,331	164,172	134,198
Grand total-----	377,072	652,930	658,005	527,030

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 17.--Carbon and certain alloy 1/ steel structural shapes and units: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
<hr/>				
VRA countries:				
Australia -----:	139 :	312 :	41 :	8
Austria -----:	1,541 :	684 :	274 :	305
Brazil -----:	20,210 :	11,638 :	6,509 :	10,883
Czechoslovakia -----:	0 :	0 :	0 :	0
East Germany -----:	0 :	92 :	0 :	0
EC countries-----:	903,438 :	790,065 :	537,513 :	263,352
Finland -----:	118 :	2,669 :	12 :	7
Hungary -----:	0 :	0 :	0 :	0
Japan -----:	590,217 :	373,632 :	114,932 :	48,069
Mexico -----:	24,912 :	17,588 :	36,696 :	13,031
China -----:	208 :	874 :	1,477 :	1,705
Poland -----:	14,059 :	20,441 :	15,062 :	24,309
Romania -----:	19 :	168 :	113 :	62
Republic of South Africa -----:	143 :	0 :	0 :	299
Korea -----:	169,302 :	81,616 :	8,147 :	12,012
Trinidad and Tobago -----:	0 :	120 :	678 :	270
Venezuela -----:	2/ :	112 :	183 :	165
Yugoslavia -----:	263 :	0 :	0 :	0
<hr/>				
Total-----:	1,724,569 :	1,300,011 :	721,637 :	374,477
<hr/>				
Other countries:				
Canada -----:	338,187 :	249,815 :	278,669 :	217,538
Argentina -----:	27,523 :	30,494 :	5,353 :	6,416
Taiwan -----:	9,020 :	6,899 :	5,365 :	1,377
Colombia -----:	0 :	0 :	2 :	1,126
Israel -----:	218 :	195 :	365 :	990
New Zealand -----:	8,242 :	8,945 :	1,448 :	943
Sweden -----:	3,925 :	991 :	1,493 :	678
India -----:	459 :	1,743 :	553 :	407
Singapore -----:	3,129 :	1,102 :	3,741 :	228
Switzerland -----:	626 :	153 :	489 :	47
All others-----:	72,569 :	40,015 :	1,480 :	135
<hr/>				
Total-----:	463,898 :	340,352 :	298,958 :	229,885
<hr/>				
Grand total-----:	2,188,467 :	1,640,363 :	1,020,595 :	604,362
<hr/>				

See footnote(s) at end of table.

Table 17.--Carbon and certain alloy 1/ steel structural shapes and units: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	135	902	107	114
Austria -----	1,865	1,780	1,451	1,263
Brazil -----	8,055	5,564	3,255	5,217
Czechoslovakia -----	0	0	0	0
East Germany -----	0	28	0	0
EC countries-----	356,905	308,492	208,048	130,845
Finland -----	248	4,129	38	11
Hungary -----	0	0	0	0
Japan -----	228,010	159,837	58,791	39,182
Mexico -----	11,585	8,817	20,750	7,497
China -----	154	669	1,314	1,418
Poland -----	3,587	6,446	4,249	6,212
Romania -----	11	73	42	39
Republic of South Africa -----	694	0	0	333
Korea -----	84,018	43,704	6,405	10,612
Trinidad and Tobago -----	0	63	188	75
Venezuela -----	1	83	120	158
Yugoslavia -----	393	0	0	0
Total-----	695,661	540,587	304,758	202,976
Other countries:				
Canada -----	201,529	154,010	152,709	113,627
Argentina -----	7,274	10,137	1,910	1,776
Taiwan -----	5,476	6,383	4,170	1,158
Colombia -----	0	0	3	350
Israel -----	412	865	427	1,476
New Zealand -----	8,814	10,505	1,848	1,022
Sweden -----	5,413	2,805	3,238	2,112
India -----	371	1,195	466	326
Singapore -----	2,903	1,013	4,822	462
Switzerland -----	1,557	306	1,607	194
All others-----	25,393	13,124	564	432
Total-----	259,142	200,343	171,764	122,935
Grand total-----	954,803	740,930	476,522	325,911

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

2/ Less than 0.5 short ton.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 18.--Carbon and certain alloy 1/ steel rails and related products: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	2	3,567	3,657	1,324
Austria -----	703	5,805	6,319	3,642
Brazil -----	4,553	2,942	1,336	1,272
Czechoslovakia -----	0	0	0	0
East Germany -----	1	0	0	0
EC countries-----	52,358	53,518	44,423	47,188
Finland -----	3	0	3	2
Hungary -----	4	0	30	40
Japan -----	79,347	83,624	87,191	97,927
Mexico -----	26	380	96	124
China -----	25	455	94	87
Poland -----	0	105	0	6
Romania -----	0	0	0	0
Republic of South Africa -----	2/	20	1,290	63
Korea -----	6,919	6,670	4,025	3,609
Trinidad and Tobago -----	0	0	0	64
Venezuela -----	77	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	144,018	157,086	148,464	155,346
Other countries:				
Canada -----	172,077	151,966	200,252	144,179
Argentina -----	6	2,579	2	2,999
Switzerland -----	0	4	11	311
Taiwan -----	128	417	246	284
Israel -----	0	20	23	185
Turkey -----	0	22	86	113
Colombia -----	0	77	73	111
Sweden -----	3,064	876	331	38
Netherlands Antilles -----	0	0	20	21
Chile -----	0	48	15	5
All others-----	140	9,890	30	4
Total-----	175,415	165,899	201,089	148,250
Grand total-----	319,433	322,985	349,553	303,596

See footnote(s) at end of table.

Table 18.--Carbon and certain alloy 1/ steel rails and related products: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----:	7 :	3,841 :	3,664 :	931
Austria -----:	299 :	3,284 :	4,696 :	2,765
Brazil -----:	3,751 :	2,544 :	1,128 :	1,036
Czechoslovakia -----:	0 :	0 :	0 :	0
East Germany -----:	5 :	0 :	0 :	0
EC countries-----:	25,214 :	28,589 :	26,170 :	26,282
Finland -----:	14 :	0 :	42 :	5
Hungary -----:	25 :	0 :	78 :	126
Japan -----:	38,835 :	46,028 :	48,194 :	53,574
Mexico -----:	37 :	380 :	163 :	198
China -----:	9 :	221 :	67 :	83
Poland -----:	0 :	49 :	0 :	3
Romania -----:	0 :	0 :	0 :	0
Republic of South Africa -----:	1 :	14 :	1,044 :	55
Korea -----:	2,580 :	3,408 :	2,141 :	2,054
Trinidad and Tobago -----:	0 :	0 :	0 :	31
Venezuela -----:	24 :	0 :	0 :	0
Yugoslavia -----:	0 :	0 :	0 :	0
Total-----:	70,801 :	88,358 :	87,387 :	87,143
Other countries:				
Canada -----:	50,140 :	59,757 :	47,317 :	44,285
Argentina -----:	17 :	803 :	10 :	650
Switzerland -----:	0 :	61 :	71 :	200
Taiwan -----:	294 :	797 :	561 :	610
Israel -----:	0 :	25 :	12 :	482
Turkey -----:	0 :	13 :	58 :	54
Colombia -----:	0 :	258 :	271 :	462
Sweden -----:	1,001 :	600 :	512 :	111
Netherlands Antilles -----:	0 :	0 :	29 :	19
Chile -----:	0 :	25 :	8 :	3
All others-----:	116 :	1,305 :	51 :	10
Total-----:	51,568 :	63,644 :	48,900 :	46,886
Grand total-----:	122,369 :	152,002 :	136,287 :	134,029

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

2/ Less than 0.5 short ton.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 19.--Carbon and certain alloy 1/ steel pipe and tube: U.S. imports for U.S. imports for consumption, by specified sources 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	12,375	7,022	6,529	205
Austria -----	26,408	17,756	32,169	74,215
Brazil -----	87,724	64,098	111,315	138,046
Czechoslovakia -----	7,164	6,156	2,312	9,330
East Germany -----	7,828	6,520	1,850	0
EC countries-----	488,108	504,008	573,065	616,422
Finland -----	12,755	6,000	3,187	3,097
Hungary -----	585	1,109	0	0
Japan -----	790,770	507,942	540,343	579,295
Mexico -----	131,349	138,081	140,133	133,064
China -----	18,422	973	0	968
Poland -----	8,048	4,658	5,603	2,353
Romania -----	27,284	13,778	14,509	14,914
Republic of South Africa -----	0	0	0	0
Korea -----	496,059	353,671	374,528	397,957
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	19,510	20,192	48,020	38,391
Yugoslavia -----	3,732	2,226	7,214	12,322
Total-----	2,138,121	1,654,190	1,860,777	2,020,579
Other countries:				
Canada -----	436,372	451,459	400,098	473,741
Argentina -----	148,192	89,608	96,895	71,650
Taiwan -----	88,055	60,719	77,484	52,185
India -----	44,486	25,404	18,466	16,177
Singapore -----	47,545	27,492	18,962	12,676
Sweden -----	26,842	21,424	16,887	9,902
Thailand -----	148,259	34,384	11,312	6,519
Egypt -----	1,540	6,614	4,048	5,969
Turkey -----	32,001	16,107	9,010	5,709
Israel -----	12,714	9,397	13,819	5,056
All others-----	125,811	38,746	21,010	6,279
Total-----	1,111,817	781,354	687,991	665,863
Grand total-----	3,249,938	2,435,544	2,548,768	2,686,442

See footnote(s) at end of table.

Table 19.--Carbon and certain alloy ^{1/} steel pipe and tube: U.S. imports for U.S. imports for consumption, by specified sources 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	4,959	3,151	3,059	71
Austria -----	23,494	13,811	20,476	36,745
Brazil -----	41,170	36,362	45,081	68,388
Czechoslovakia -----	3,472	2,779	994	3,987
East Germany -----	4,115	2,763	756	0
EC countries-----	346,165	330,377	363,826	412,796
Finland -----	5,624	2,987	1,719	1,680
Hungary -----	266	517	0	0
Japan -----	597,887	378,193	368,363	429,347
Mexico -----	71,872	74,372	72,723	70,991
China -----	7,066	360	0	626
Poland -----	3,115	2,105	2,372	1,026
Romania -----	11,018	5,411	5,346	5,651
Republic of South Africa -----	0	0	0	0
Korea -----	239,742	176,982	174,638	186,703
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	7,535	8,737	19,623	15,657
Yugoslavia -----	2,036	946	3,154	5,338
Total-----	1,369,536	1,039,853	1,082,130	1,239,006
Other countries:				
Canada -----	266,692	281,447	243,046	316,777
Argentina -----	76,641	51,423	54,467	40,840
Taiwan -----	39,591	28,827	33,418	23,789
India -----	20,173	11,846	7,560	7,310
Singapore -----	19,833	13,215	8,288	5,643
Sweden -----	23,510	23,653	19,510	12,057
Thailand -----	58,119	14,718	4,135	2,698
Egypt -----	560	2,430	1,427	2,162
Turkey -----	14,568	6,678	3,962	2,575
Israel -----	6,218	4,759	6,168	2,065
All others-----	53,426	18,051	11,530	5,011
Total-----	579,331	457,047	393,511	420,927
Grand total-----	1,948,867	1,496,900	1,475,641	1,659,933

^{1/} Certain alloy refers to alloy steel other than stainless or tool steel.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 20. Total, carbon and certain 1/ alloy steel products: U.S. imports for consumption, by principal sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	282,061	274,550	309,960	368,963
Austria -----	134,200	82,507	142,198	152,420
Brazil -----	1,468,033	1,382,924	1,469,768	1,299,100
Czechoslovakia -----	37,280	25,660	7,985	18,801
East Germany -----	92,234	55,867	40,668	0
EC countries-----	6,147,884	5,530,746	5,393,240	4,589,344
Finland -----	204,209	213,588	203,107	187,846
Hungary -----	30,094	28,420	31,568	18,505
Japan -----	4,277,647	3,602,047	3,017,024	2,687,992
Mexico -----	478,207	451,951	665,773	501,740
China -----	68,735	61,850	57,626	38,252
Poland -----	89,325	72,268	59,519	76,324
Romania -----	102,530	49,436	46,272	51,405
Republic of South Africa -----	1,693	756	1,290	413
Korea -----	1,560,497	1,178,972	1,502,300	1,562,853
Trinidad and Tobago -----	31,380	48,028	70,160	54,329
Venezuela -----	169,376	173,574	212,539	99,923
Yugoslavia -----	12,734	8,219	23,691	33,841
Total-----	15,188,119	13,241,363	13,254,688	11,742,051
Other countries:				
Canada -----	3,373,766	3,159,739	3,091,045	3,080,428
Sweden -----	522,294	212,323	256,295	263,017
Argentina -----	557,969	227,661	202,795	198,547
Taiwan -----	243,886	159,725	202,732	129,668
Turkey -----	307,985	211,804	143,581	104,418
New Zealand -----	88,979	78,564	106,095	72,233
India -----	99,714	104,994	102,637	30,864
Colombia -----	170	1,689	8,034	24,274
Norway -----	181,502	90,181	16,972	20,281
Indonesia -----	281,142	69,342	28,197	14,899
All others-----	665,265	268,744	137,775	78,549
Total-----	6,322,672	4,584,766	4,296,158	4,017,178
Grand total-----	21,510,791	17,826,129	17,550,846	15,759,229

See footnote(s) at end of table.

Table 20. Total, carbon and certain 1/ alloy steel products: U.S. imports for consumption, by principal sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	118,320	126,499	120,429	134,736
Austria -----	70,268	52,952	74,143	72,429
Brazil -----	451,458	455,362	416,532	440,325
Czechoslovakia -----	11,986	8,844	2,590	6,836
East Germany -----	31,334	18,908	12,344	0
EC countries-----	2,702,007	2,591,992	2,435,907	2,104,939
Finland -----	81,482	83,209	71,959	62,367
Hungary -----	8,600	9,155	8,890	4,919
Japan -----	2,386,680	2,160,017	1,873,636	1,725,046
Mexico -----	220,745	216,702	277,758	209,290
China -----	27,385	34,364	32,505	22,276
Poland -----	29,711	25,514	20,230	22,912
Romania -----	36,033	17,347	14,742	16,602
Republic of South Africa -----	1,487	590	1,044	419
Korea -----	743,129	604,322	691,693	676,737
Trinidad and Tobago -----	8,400	14,695	19,653	14,283
Venezuela -----	53,667	61,595	75,377	40,512
Yugoslavia -----	5,925	3,419	9,459	11,528
Total-----	6,988,617	6,485,486	6,158,891	5,566,156
Other countries:				
Canada -----	1,593,962	1,559,576	1,400,384	1,443,179
Sweden -----	221,486	141,425	147,237	139,246
Argentina -----	221,780	109,850	98,635	84,455
Taiwan -----	109,041	90,727	107,541	73,203
Turkey -----	93,038	65,996	45,013	30,927
New Zealand -----	35,993	41,302	42,398	28,240
India -----	42,731	42,851	39,598	15,595
Colombia -----	188	966	3,243	8,427
Norway -----	55,371	33,914	10,386	13,041
Indonesia -----	81,687	24,707	11,860	6,132
All others-----	242,698	119,779	76,171	46,467
Total-----	2,697,975	2,231,093	1,982,466	1,888,912
Grand total-----	9,686,592	8,716,579	8,141,357	7,455,068

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

Table 21.--Stainless semifinished steel: U.S. imports for consumption, by specified sources 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	73	0	0	0
Brazil -----	1,683	0	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	10,624	13,995	20,041	10,749
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	1,935	698	1,679	2,101
Mexico -----	0	176	275	65
China -----	0	0	0	0
Poland -----	74	293	42	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea -----	0	0	85	1/
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	14,389	15,162	22,122	12,915
Other countries:				
Canada -----	33,527	36,556	26,379	21,273
Sweden -----	14,491	10,403	12,320	14,318
Soviet Union -----	0	0	0	455
Switzerland -----	0	0	0	1/
Israel -----	0	1/	0	1/
Norway -----	0	0	0	1/
Taiwan -----	0	1/	1/	1/
Total-----	48,018	46,959	38,699	36,046
Grand total-----	62,407	62,121	60,821	48,961

See footnote(s) at end of table.

Table 21.--Stainless semifinished steel: U.S. imports for consumption, by specified sources 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	0 :	0 :	0 :	0
Austria -----	234 :	0 :	0 :	0
Brazil -----	542 :	0 :	0 :	0
Czechoslovakia -----	0 :	0 :	0 :	0
East Germany -----	0 :	0 :	0 :	0
EC countries-----	13,120 :	12,572 :	18,089 :	17,382
Finland -----	0 :	0 :	0 :	0
Hungary -----	0 :	0 :	0 :	0
Japan -----	2,906 :	1,413 :	2,134 :	2,744
Mexico -----	0 :	448 :	656 :	207
China -----	0 :	0 :	0 :	0
Poland -----	102 :	532 :	95 :	0
Romania -----	0 :	0 :	0 :	0
Republic of South Africa -----	0 :	0 :	0 :	0
Korea -----	0 :	0 :	86 :	8
Trinidad and Tobago -----	0 :	0 :	0 :	0
Venezuela -----	0 :	0 :	0 :	0
Yugoslavia -----	0 :	0 :	0 :	0
Total-----	16,904 :	14,965 :	21,060 :	20,341
Other countries:				
Canada -----	52,871 :	68,918 :	37,599 :	28,560
Sweden -----	23,240 :	23,075 :	20,774 :	23,376
Soviet Union -----	0 :	0 :	0 :	812
Switzerland -----	0 :	0 :	0 :	4
Israel -----	0 :	5 :	0 :	8
Norway -----	0 :	0 :	0 :	1
Taiwan -----	0 :	16 :	8 :	14
Hong Kong -----	0 :	2 :	0 :	0
Total-----	76,111 :	92,016 :	58,381 :	52,775
Grand total-----	93,015 :	106,981 :	79,441 :	73,116

1/ Less than 0.5 short ton.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 22.--Stainless steel plate: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----:	0 :	0 :	0 :	0
Austria -----:	249 :	197 :	126 :	464
Brazil -----:	0 :	0 :	0 :	0
Czechoslovakia -----:	0 :	0 :	0 :	0
East Germany -----:	0 :	0 :	0 :	0
EC countries-----:	7,364 :	12,024 :	9,271 :	11,130
Finland -----:	2,730 :	1,746 :	6,444 :	4,884
Hungary -----:	0 :	0 :	0 :	0
Japan -----:	2,225 :	1,542 :	2,576 :	2,557
Mexico -----:	0 :	4 :	0 :	0
China -----:	0 :	0 :	0 :	0
Poland -----:	0 :	0 :	0 :	0
Romania -----:	0 :	0 :	0 :	0
Republic of South Africa -----:	0 :	0 :	0 :	2
Korea -----:	125 :	10 :	545 :	1,158
Trinidad and Tobago -----:	0 :	0 :	0 :	0
Venezuela -----:	0 :	0 :	0 :	0
Yugoslavia -----:	0 :	0 :	0 :	0
Total-----:	12,693 :	15,523 :	18,962 :	20,195
Other countries:				
Sweden -----:	2,779 :	2,014 :	1,510 :	972
Canada -----:	371 :	177 :	178 :	247
Kenya -----:	0 :	0 :	0 :	66
India -----:	0 :	0 :	0 :	18
Anguilla -----:	5 :	0 :	0 :	0
Total-----:	3,155 :	2,191 :	1,688 :	1,303
Grand total-----:	15,848 :	17,714 :	20,650 :	21,498

Table 22.--Stainless steel plate: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----:	0 :	0 :	0 :	0
Austria -----:	953 :	915 :	596 :	1,819
Brazil -----:	0 :	0 :	0 :	0
Czechoslovakia -----:	0 :	0 :	0 :	0
East Germany -----:	0 :	0 :	0 :	0
EC countries-----:	15,635 :	35,694 :	22,315 :	28,016
Finland -----:	6,147 :	4,883 :	13,224 :	10,334
Hungary -----:	0 :	0 :	0 :	0
Japan -----:	4,514 :	4,544 :	5,706 :	5,620
Mexico -----:	0 :	3 :	0 :	0
China -----:	0 :	0 :	0 :	0
Poland -----:	0 :	0 :	0 :	0
Romania -----:	0 :	0 :	0 :	0
Republic of South Africa ----:	0 :	0 :	0 :	4
Korea -----:	50 :	24 :	891 :	1,927
Trinidad and Tobago -----:	0 :	0 :	0 :	0
Venezuela -----:	0 :	0 :	0 :	0
Yugoslavia -----:	0 :	0 :	0 :	0
Total-----:	27,299 :	46,063 :	42,732 :	47,720
Other countries:				
Sweden -----:	6,775 :	5,970 :	4,193 :	2,944
Canada -----:	889 :	425 :	314 :	456
Kenya -----:	0 :	0 :	0 :	111
India -----:	0 :	0 :	0 :	43
Anguilla -----:	9 :	0 :	0 :	0
Total-----:	7,673 :	6,395 :	4,507 :	3,554
Grand total-----:	34,972 :	52,458 :	47,239 :	51,274

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 23.--Stainless steel sheet and strip: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	0	9	0	0
Austria -----	29	16	13	67
Brazil -----	313	0	2,239	730
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	60,758	63,478	62,089	69,081
Finland -----	6,045	1,376	9,355	3,951
Hungary -----	0	0	0	0
Japan -----	22,393	45,581	40,791	40,175
Mexico -----	8,814	14,968	22,362	31,782
China -----	0	0	0	0
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea -----	7,845	6,875	6,768	5,002
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	5	0	0	0
Yugoslavia -----	0	0	20	0
Total-----	106,202	132,303	143,637	150,788
Other countries:				
Sweden -----	8,433	5,978	5,529	6,494
Canada -----	3,838	2,234	2,370	3,044
India -----	90	0	2,773	325
Switzerland -----	0	0	5	24
Taiwan -----	0	0	0	4
Singapore -----	0	4	28	1/
Honduras -----	19	0	0	0
All others-----	2	0	0	0
Total-----	12,382	8,216	10,705	9,891
Grand total-----	118,584	140,519	154,342	160,679

See footnote(s) at end of table.

Table 23.--Stainless steel sheet and strip: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	0 :	12 :	0 :	0
Austria -----	136 :	79 :	59 :	342
Brazil -----	480 :	0 :	3,846 :	1,277
Czechoslovakia -----	0 :	0 :	0 :	0
East Germany -----	0 :	0 :	0 :	0
EC countries-----	122,326 :	138,830 :	119,032 :	133,863
Finland -----	13,459 :	3,850 :	19,548 :	8,483
Hungary -----	0 :	0 :	0 :	0
Japan -----	50,112 :	95,498 :	79,396 :	74,484
Mexico -----	16,454 :	33,463 :	41,946 :	56,223
China -----	0 :	0 :	0 :	0
Poland -----	0 :	0 :	0 :	0
Romania -----	0 :	0 :	0 :	0
Republic of South Africa ----	0 :	0 :	0 :	0
Korea -----	17,343 :	16,561 :	11,926 :	9,155
Trinidad and Tobago -----	0 :	0 :	0 :	0
Venezuela -----	21 :	0 :	0 :	0
Yugoslavia -----	0 :	0 :	32 :	0
Total-----	220,331 :	288,293 :	275,785 :	283,827
Other countries:				
Sweden -----	24,684 :	21,181 :	18,300 :	21,625
Canada -----	9,552 :	7,123 :	6,291 :	6,966
India -----	172 :	0 :	5,235 :	522
Switzerland -----	0 :	0 :	100 :	143
Taiwan -----	0 :	0 :	0 :	12
Singapore -----	0 :	17 :	124 :	2
Honduras -----	35 :	0 :	0 :	0
All others-----	26 :	0 :	0 :	0
Total-----	34,469 :	28,321 :	30,050 :	29,270
Grand total-----	254,800 :	316,614 :	305,835 :	313,097

1/ Less than 0.5 short ton.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 24.--Stainless steel bars and shapes: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	4	0
Austria -----	183	200	130	136
Brazil -----	3,827	4,497	3,318	3,334
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	12,705	10,400	10,817	14,349
Finland -----	0	0	1/	0
Hungary -----	0	0	0	0
Japan -----	16,715	20,286	17,777	19,988
Mexico -----	49	18	19	15
China -----	2	7	0	0
Poland -----	0	0	0	0
Romania -----	18	15	0	0
Republic of South Africa -----	0	0	0	0
Korea -----	1,604	3,165	2,610	3,822
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	53	259
Total-----	35,103	38,588	34,728	41,903
Other countries:				
Canada -----	1,641	1,711	5,374	5,089
Sweden -----	3,708	2,727	3,308	3,595
India -----	224	214	1,084	1,404
Switzerland -----	1/	13	15	321
Taiwan -----	49	59	3	125
United Arab Emirates -----	0	0	0	44
Malaysia -----	0	0	0	12
Israel -----	0	1/	0	1/
Norway -----	0	0	0	1/
Jordan -----	0	10	0	0
All others-----	1/	95	14	0
Total-----	5,622	4,829	9,798	10,590
Grand total-----	40,725	43,417	44,526	52,493

See footnote(s) at end of table.

Table 24.--Stainless steel bars and shapes: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	0 :	0 :	11 :	0
Austria -----	412 :	527 :	378 :	393
Brazil -----	5,743 :	10,550 :	7,704 :	7,410
Czechoslovakia -----	0 :	0 :	0 :	0
East Germany -----	0 :	0 :	0 :	0
EC countries-----	29,888 :	30,443 :	28,981 :	38,206
Finland -----	0 :	0 :	2 :	0
Hungary -----	0 :	0 :	0 :	0
Japan -----	40,671 :	63,821 :	49,418 :	50,919
Mexico -----	163 :	33 :	39 :	23
China -----	40 :	32 :	0 :	0
Poland -----	0 :	0 :	0 :	0
Romania -----	30 :	27 :	0 :	0
Republic of South Africa -----	0 :	0 :	0 :	0
Korea -----	3,389 :	9,017 :	6,270 :	8,612
Trinidad and Tobago -----	0 :	0 :	0 :	0
Venezuela -----	0 :	0 :	0 :	0
Yugoslavia -----	0 :	0 :	132 :	609
Total-----	80,336 :	114,450 :	92,935 :	106,172
Other countries:				
Canada -----	3,608 :	4,540 :	13,577 :	13,287
Sweden -----	8,981 :	8,819 :	8,921 :	9,287
India -----	420 :	509 :	2,623 :	3,144
Switzerland -----	1 :	92 :	65 :	1,400
Taiwan -----	162 :	166 :	9 :	288
United Arab Emirates -----	0 :	0 :	0 :	94
Malaysia -----	0 :	0 :	0 :	19
Israel -----	0 :	4 :	0 :	12
Norway -----	0 :	0 :	0 :	1
Jordan -----	0 :	41 :	0 :	0
All others-----	3 :	224 :	28 :	0
Total-----	13,175 :	14,395 :	25,223 :	27,532
Grand total-----	93,511 :	128,845 :	118,158 :	133,704

1/ Less than 0.5 short ton.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 25.--Stainless steel wire rod: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	49	88	0	3
Brazil -----	964	809	1,413	1,671
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	8,877	10,582	10,772	11,898
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	5,483	6,087	5,195	4,574
Mexico -----	0	0	0	0
China -----	0	0	0	0
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea -----	375	336	861	1,604
Trinidad and Tobago -----	138	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	17	0	0	0
Total-----	15,903	17,902	18,241	19,750
Other countries:				
Sweden -----	3,159	3,497	4,621	4,244
India -----	0	0	97	1,729
Taiwan -----	148	0	0	126
Canada -----	1/	284	168	48
Argentina -----	0	15	0	0
Total-----	3,307	3,796	4,886	6,147
Grand total-----	19,210	21,698	23,127	25,897

See footnote(s) at end of table.

Table 25.--Stainless steel wire rod: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----:	0 :	0 :	0 :	0
Austria -----:	68 :	129 :	0 :	60
Brazil -----:	1,543 :	1,991 :	2,774 :	3,000
Czechoslovakia -----:	0 :	0 :	0 :	0
East Germany -----:	0 :	0 :	0 :	0
EC countries-----:	23,039 :	30,861 :	27,607 :	29,757
Finland -----:	0 :	0 :	0 :	0
Hungary -----:	0 :	0 :	0 :	0
Japan -----:	11,611 :	16,226 :	11,460 :	10,044
Mexico -----:	0 :	0 :	0 :	0
China -----:	0 :	0 :	0 :	0
Poland -----:	0 :	0 :	0 :	0
Romania -----:	0 :	0 :	0 :	0
Republic of South Africa -----:	0 :	0 :	0 :	0
Korea -----:	552 :	796 :	1,807 :	2,978
Trinidad and Tobago -----:	202 :	0 :	0 :	0
Venezuela -----:	0 :	0 :	0 :	0
Yugoslavia -----:	22 :	0 :	0 :	0
Total-----:	37,037 :	50,003 :	43,648 :	45,839
Other countries:				
Sweden -----:	7,916 :	11,170 :	11,714 :	10,708
India -----:	0 :	0 :	190 :	3,144
Taiwan -----:	328 :	0 :	0 :	252
Canada -----:	2 :	787 :	451 :	113
Argentina -----:	0 :	26 :	0 :	0
Total-----:	8,246 :	11,983 :	12,355 :	14,217
Grand total-----:	45,283 :	61,986 :	56,003 :	60,056

1/ Less than 0.5 short ton.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 26.--Stainless steel wire: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	1/	1/	1/	4
Austria -----	25	105	1	8
Brazil -----	156	849	446	321
Czechoslovakia -----	0	0	0	4
East Germany -----	0	0	0	0
EC countries-----	8,101	7,542	6,443	6,070
Finland -----	0	7	0	10
Hungary -----	0	0	0	0
Japan -----	4,719	4,796	3,393	2,677
Mexico -----	1	6	0	20
China -----	0	0	0	0
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea -----	986	759	619	778
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	3	0	0	0
Yugoslavia -----	0	3	0	0
Total -----	13,991	14,067	10,902	9,892
Other countries:				
Sweden -----	2,685	2,493	2,051	2,531
Canada -----	2,277	2,355	2,404	2,156
Taiwan -----	1,221	1,099	867	1,441
Switzerland -----	268	337	284	591
India -----	209	896	1,613	337
Thailand -----	0	71	175	105
Israel -----	0	0	0	1/
New Zealand -----	0	0	9	1/
Hong Kong -----	0	1/	0	0
Singapore -----	1/	1/	1/	0
All others-----	0	0	21	0
Total -----	6,660	7,251	7,424	7,161
Grand total -----	20,651	21,318	18,326	17,053

See footnote(s) at end of table.

Table 26.--Stainless steel wire: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	39	81	97	151
Austria -----	117	516	11	32
Brazil -----	304	2,069	959	572
Czechoslovakia -----	0	0	0	17
East Germany -----	0	0	0	0
EC countries-----	24,922	28,620	24,110	22,369
Finland -----	0	58	0	182
Hungary -----	0	0	0	0
Japan -----	18,705	20,748	13,471	10,894
Mexico -----	6	3	0	33
China -----	0	0	0	0
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea -----	3,044	3,042	2,291	2,662
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	11	0	0	0
Yugoslavia -----	0	4	0	0
Total-----	47,148	55,141	40,939	36,912
Other countries:				
Sweden -----	12,922	13,952	10,629	12,738
Canada -----	9,650	12,604	11,424	10,451
Taiwan -----	3,824	3,834	2,818	4,902
Switzerland -----	1,254	1,590	1,318	2,964
India -----	414	2,432	3,987	772
Thailand -----	0	274	617	392
Israel -----	0	0	0	10
New Zealand -----	0	0	18	3
Hong Kong -----	0	4	0	0
Singapore -----	5	9	6	0
All others-----	0	0	19	0
Total-----	28,069	34,699	30,836	32,232
Grand total-----	75,217	89,840	71,775	69,144

1/ Less than 0.5 short ton.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 27.--Stainless steel pipe and tube: U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	23	0	1/	7
Austria -----	756	664	929	441
Brazil -----	0	12	0	2
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	7,081	11,955	14,525	11,554
Finland -----	1/	0	0	2
Hungary -----	0	0	0	0
Japan -----	8,365	9,327	8,787	11,333
Mexico -----	950	346	597	511
China -----	0	4	486	228
Poland -----	0	0	0	1/
Romania -----	0	0	0	1,993
Republic of South Africa -----	0	1/	0	0
Korea -----	392	684	3,470	5,391
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	10
Yugoslavia -----	0	0	0	1/
Total-----	17,567	22,992	28,794	31,472
Other countries:				
Taiwan -----	6,809	3,135	8,216	9,333
Canada -----	6,925	6,241	5,711	4,479
Singapore -----	0	315	1,038	1,529
Sweden -----	5,253	4,208	3,225	908
Thailand -----	188	332	152	191
Malaysia -----	0	13	0	159
Hong Kong -----	0	0	11	114
Switzerland -----	1	16	6	25
India -----	4	5	66	6
Argentina -----	0	0	1/	3
All others-----	4	1/	1/	1/
Total-----	19,184	14,265	18,425	16,747
Grand total-----	36,751	37,257	47,219	48,219

See footnote(s) at end of table.

Table 27.--Stainless steel pipe and tube: U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	135	0	2	33
Austria -----	4,157	5,246	6,665	3,317
Brazil -----	0	54	0	6
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	27,461	45,286	44,642	51,152
Finland -----	1	0	0	25
Hungary -----	0	0	0	0
Japan -----	31,923	52,918	48,830	58,367
Mexico -----	2,891	1,195	2,439	1,558
China -----	0	12	1,293	604
Poland -----	0	0	0	11
Romania -----	0	0	0	717
Republic of South Africa -----	0	4	0	0
Korea -----	1,255	2,570	9,796	14,995
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	45
Yugoslavia -----	0	0	0	3
Total-----	67,823	107,285	113,667	130,833
Other countries:				
Taiwan -----	21,308	12,587	25,477	27,692
Canada -----	24,048	30,786	29,198	24,198
Singapore -----	0	1,060	3,040	4,343
Sweden -----	22,285	22,758	14,203	5,827
Thailand -----	458	874	320	475
Malaysia -----	0	45	0	414
Hong Kong -----	0	0	26	264
Switzerland -----	177	212	250	380
India -----	17	20	349	44
Argentina -----	0	0	7	27
All others-----	79	10	10	9
Total-----	68,372	68,352	72,880	63,673
Grand total-----	136,195	175,637	186,547	194,506

1/ Less than 0.5 short ton.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 28.--Alloy tool steel (all forms): U.S. imports for consumption, by specified sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	0 :	18 :	537 :	0
Austria -----	2,538 :	2,709 :	2,810 :	4,139
Brazil -----	1,920 :	2,052 :	2,542 :	2,766
Czechoslovakia -----	21 :	33 :	0 :	230
East Germany -----	4 :	0 :	2 :	0
EC countries-----	12,825 :	16,254 :	14,247 :	13,818
Finland -----	5 :	0 :	0 :	172
Hungary -----	0 :	0 :	0 :	0
Japan -----	4,416 :	5,543 :	4,015 :	4,291
Mexico -----	346 :	137 :	230 :	83
China -----	103 :	167 :	74 :	299
Poland -----	249 :	225 :	289 :	276
Romania -----	0 :	0 :	0 :	0
Republic of South Africa -----	0 :	0 :	0 :	0
Korea -----	779 :	1,167 :	694 :	254
Trinidad and Tobago -----	0 :	0 :	0 :	0
Venezuela -----	0 :	68 :	313 :	99
Yugoslavia -----	0 :	0 :	0 :	0
Total-----	23,206 :	28,373 :	25,753 :	26,427
Other countries:				
Canada -----	8,573 :	8,963 :	7,142 :	12,371
Sweden -----	12,254 :	10,867 :	6,247 :	6,246
Colombia -----	0 :	0 :	0 :	62
Soviet Union -----	0 :	10 :	0 :	45
Norway -----	0 :	0 :	0 :	6
Switzerland -----	1/ :	1/ :	0 :	1/
Israel -----	0 :	1/ :	0 :	0
India -----	19 :	1/ :	54 :	0
All others-----	42 :	98 :	108 :	0
Total-----	23,248 :	28,471 :	25,861 :	26,427
Grand total-----	36,793 :	37,355 :	47,327 :	48,219

Table 28.--Alloy tool steel (all forms): U.S. imports for consumption, by specified sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----:	0 :	41 :	1,209 :	0
Austria -----:	6,561 :	7,507 :	8,167 :	10,583
Brazil -----:	3,560 :	3,481 :	4,166 :	3,784
Czechoslovakia -----:	33 :	46 :	0 :	231
East Germany -----:	6 :	0 :	8 :	0
EC countries-----:	23,213 :	31,615 :	31,445 :	23,724
Finland -----:	15 :	0 :	0 :	55
Hungary -----:	0 :	0 :	0 :	0
Japan -----:	14,883 :	11,142 :	9,901 :	9,010
Mexico -----:	434 :	183 :	301 :	105
China -----:	149 :	219 :	108 :	380
Poland -----:	468 :	567 :	861 :	712
Romania -----:	0 :	0 :	0 :	0
Republic of South Africa -----:	0 :	0 :	0 :	0
Korea -----:	1,303 :	1,979 :	1,442 :	408
Trinidad and Tobago -----:	0 :	0 :	0 :	0
Venezuela -----:	0 :	86 :	428 :	127
Yugoslavia -----:	0 :	0 :	0 :	0
Total-----:	50,625 :	56,866 :	58,036 :	49,119
Other countries:				
Canada -----:	12,019 :	12,883 :	10,490 :	8,408
Sweden -----:	30,589 :	30,000 :	18,915 :	21,035
Colombia -----:	0 :	0 :	0 :	145
Soviet Union -----:	0 :	8 :	0 :	49
Norway -----:	0 :	0 :	0 :	146
Switzerland -----:	2 :	1 :	0 :	1
Israel -----:	0 :	10 :	0 :	0
India -----:	16 :	4 :	107 :	0
All others-----:	65 :	165 :	267 :	0
Total-----:	50,690 :	57,031 :	58,303 :	49,119
Grand total-----:	136,260 :	175,802 :	186,814 :	194,506

1/ Less than 0.5 short ton.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 29.--Total, stainless and alloy tool steel products: U.S. imports for consumption, by principal sources, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	24	28	543	11
Austria -----	3,901	3,979	4,009	5,258
Brazil -----	8,863	8,218	9,958	8,823
Czechoslovakia -----	21	33	0	234
East Germany -----	4	0	2	0
EC countries-----	128,336	146,230	148,205	148,650
Finland -----	8,780	3,128	15,800	9,018
Hungary -----	0	0	0	0
Japan -----	66,251	93,860	84,212	87,696
Mexico -----	10,160	15,654	23,483	32,476
China -----	106	178	560	527
Poland -----	323	518	331	276
Romania -----	18	15	0	1,993
Republic of South Africa -----	0	1/	0	2
Korea -----	12,105	12,998	15,653	18,010
Trinidad and Tobago -----	138	0	0	0
Venezuela -----	7	68	313	109
Yugoslavia -----	17	3	73	260
Total-----	239,054	284,925	303,142	313,343
Other countries:				
Canada -----	57,153	58,521	49,727	48,708
Sweden -----	52,761	42,184	38,812	39,308
Taiwan -----	8,227	4,294	9,087	11,030
India -----	546	1,116	5,686	3,818
Singapore -----	1/	320	1,066	1,529
Switzerland -----	270	366	310	961
Soviet Union -----	0	10	0	499
Thailand -----	188	403	327	296
Malaysia -----	0	13	0	171
Hong Kong -----	1/	1/	11	114
All others-----	72	219	154	183
Total-----	119,763	107,459	105,180	106,617
Grand total-----	358,817	392,384	408,322	419,960

See footnote(s) at end of table.

Table 29.--Total, stainless and alloy tool steel products: U.S. imports for consumption, by principal sources, 1988-1991--Continued

Item	1988	1989	1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	174	133	1,318	184
Austria -----	12,639	14,919	15,877	16,547
Brazil -----	12,173	18,144	19,449	16,050
Czechoslovakia -----	33	46	0	249
East Germany -----	6	0	8	0
EC countries-----	279,603	353,921	316,222	344,470
Finland -----	19,623	8,791	32,775	19,080
Hungary -----	0	0	0	0
Japan -----	175,325	266,312	220,316	222,082
Mexico -----	19,948	35,327	45,380	58,149
China -----	189	263	1,401	984
Poland -----	570	1,099	956	722
Romania -----	30	27	0	717
Republic of South Africa -----	0	4	0	4
Korea -----	26,936	33,988	34,510	40,746
Trinidad and Tobago -----	202	0	0	0
Venezuela -----	32	86	428	172
Yugoslavia -----	22	4	164	612
Total-----	547,505	733,064	688,804	720,768
Other countries:				
Canada -----	112,639	138,065	109,343	92,439
Sweden -----	137,391	136,924	107,648	107,540
Taiwan -----	25,622	16,604	28,312	33,159
India -----	1,039	2,965	12,490	7,669
Singapore -----	5	1,088	3,170	4,345
Switzerland -----	1,434	1,895	1,732	4,893
Soviet Union -----	0	8	0	862
Thailand -----	458	1,148	937	867
Malaysia -----	0	45	0	433
Hong Kong -----	3	6	26	264
All others-----	213	484	350	568
Total-----	278,804	299,232	264,008	253,039
Grand total-----	826,309	1,032,296	952,812	973,807

1/ Less than 0.5 short tons

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 30.--Steel mill products and certain fabricated steel products: Unit value of U.S. imports for consumption,
1988-1991

(Per short ton)

Item	1988	1989	1990	1991
Carbon and certain alloy 1/ steel:				
Semifinished 2/-----	240	259	234	253
Plate-----	405	400	366	358
Sheet and strip:				
Hot rolled-----	364	378	328	316
Cold rolled-----	509	546	498	485
Galvanized-----	552	587	581	544
Tin plate-----	567	613	616	624
Tin free-----	542	574	581	606
Other coated-----	590	616	643	619
Average, sheet and strip-----	481	511	471	454
Bar:				
Hot finished-----	406	454	463	462
Cold finished-----	598	658	684	701
Reinforcing-----	262	308	316	319
Light shapes-----	382	349	336	328
Average, bar-----	396	445	460	467
Wire rod-----	347	374	356	359
Wire-----	691	734	748	743
Wire products-----	659	928	996	1,030
Structural shapes and units:				
Heavy structurals-----	376	377	359	403
Fabricated structurals-----	939	1,129	1,371	1,373
Average, structurals-----	436	452	467	539
Rails and related products-----	583	471	390	441
Pipe and tube:				
Oil country tubular goods-----	730	743	720	755
Line pipe-----	529	563	510	597
Mechanical pipe-----	675	787	891	921
Structural pipe-----	507	563	538	519
Pressure tubing-----	793	1,021	1,093	1,081
Other (incl. standard)-----	487	520	503	522
Average, pipe and tube-----	600	615	579	618
Average, carbon and certain alloy 1/ steel-----	450	489	464	473

See footnotes at end of table.

Table 30.--Steel mill products and certain fabricated steel products: Unit value of U.S. imports for consumption,
1988-1991

(Per short ton)

Item	1988	1989	1990	1991
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/-----	1,490	1,722	1,306	1,493
Plate-----	2,207	2,962	2,288	2,385
Sheet and strip:				
Sheet-----	2,067	2,084	1,819	1,771
Strip-----	3,331	3,255	3,088	3,178
Average, sheet and strip	2,149	2,253	1,982	1,949
Bars and shapes:				
Bars and shapes-----	2,296	2,968	2,654	2,547
Wire rod:				
Wire rod-----	2,357	2,857	2,421	2,319
Wire:				
Wire-----	3,642	4,214	3,916	4,054
Pipe and tube:				
Pipe and tube-----	3,706	4,714	3,951	4,034
Alloy tool steel (all forms):				
Alloy tool steel (all forms)-----	2,116	2,069	2,234	1,747
Average, stainless and alloy steel:	2,306	2,631	2,333	2,319

1/ Including alloy steel other than stainless or tool steel.

2/ Semifinished steel includes ingots, blooms, billets, slabs, and steel bars.

Source: Compiled from data of the American Iron & Steel Institute, and official statistics of the U.S. Department of Commerce.

Table 31.-- Steel mill products and certain fabricated steel products: U.S. imports for consumption of specified products and imports as a percent of major product groupings by specified periods, 1988-1991

Item	1988	1989	1990	1991
Quantity (short tons)				

Carbon and certain alloy 3/ steel:				
Semifinished 2/				
Ingots-----	103,282	25,863	65,400	2,706
Blooms and billets-----	581,907	504,638	488,780	586,127
Slabs and sheet bars-----	<u>2,097,383</u>	<u>1,605,189</u>	<u>1,747,818</u>	<u>1,407,776</u>
Total-----	2,782,572	2,135,690	2,301,998	1,996,610
Plate:				
Carbon-----	1,750,917	1,312,364	1,420,427	1,144,460
Alloy-----	<u>106,172</u>	<u>107,032</u>	<u>131,644</u>	<u>125,105</u>
Total-----	1,857,090	1,419,396	1,552,071	1,269,565
Sheet and strip:				
Hot rolled:				
Sheet-----	2,199,268	1,835,755	2,211,426	2,064,770
Strip-----	49,553	110,452	96,349	105,520
Cold rolled:				
Black plate-----	145,166	144,642	146,079	129,488
Electrical-----	64,684	85,328	76,163	81,976
Other sheet-----	2,011,242	1,701,183	1,799,888	1,614,662
Other strip-----	126,534	112,196	112,905	115,392
Galvanized-----	1,948,811	1,625,227	1,649,264	1,519,936
Tin plate-----	294,552	337,330	313,549	311,322
Tin free-----	97,460	114,902	114,045	114,267
Other coated-----	248,111	235,827	192,491	189,857
Total-----	7,185,380	6,302,844	6,712,159	6,247,191
Bar:				
Hot rolled:				
Carbon-----	476,951	525,944	464,375	421,611
Alloy-----	186,902	238,912	202,466	231,736
Cold rolled:				
Carbon-----	161,345	118,180	91,358	79,946
Alloy-----	52,093	46,608	44,295	38,520
Reinforcing-----	357,253	233,733	147,882	107,344
Light structural shapes-----	<u>126,568</u>	<u>100,927</u>	<u>84,880</u>	<u>64,689</u>
Total-----	1,361,113	1,264,305	1,035,255	943,845

See footnotes at end of table.

Table 31.-- Steel mill products and certain fabricated steel products: U.S. imports for consumption of specified products and imports as a percent of major product groupings by specified periods, 1988-1991--Continued

Item	1988	1989	1990	1991
Wire rod and related products:				
Wire rod:				
Carbon-----	1,355,951	1,085,797	936,837	800,363
Alloy-----	118,672	42,620	19,276	20,663
Wire:				
Carbon-----	486,699	432,369	375,454	337,141
Alloy-----	33,028	40,615	38,555	37,609
Wire products:				
Nails-----	364,748	384,737	373,685	286,915
Barbed wire-----	15,538	12,440	15,350	11,167
Wire fencing-----	12,052	60,907	46,164	36,793
Bale ties-----	1,849	955	696	497
Wire strand-----	88,300	161,751	152,051	102,065
Wire rope-----	77,564	82,812	72,380	74,402
Milliners wire-----	12,400	0	0	1/
Total-----	2,566,801	2,305,004	2,030,446	1,707,616
Structurals:				
Heavy-----	1,955,762	1,477,782	911,556	519,377
Fabricated-----	232,705	162,579	109,037	84,984
Total-----	2,188,467	1,640,361	1,020,593	604,361
Rails and related products:				
Rails-----	260,006	244,236	301,410	254,189
Joint bars and tie plates-----	8,487	14,023	10,205	12,991
Track spikes-----	205	5,853	2,602	3,352
Wheels and axles-----	50,734	58,873	35,337	33,064
Total-----	319,432	322,985	349,555	303,596
Pipes and tubes:				
Oil country tubular goods-----	1,032,296	429,448	387,602	412,503
Line pipe-----	507,914	526,983	695,930	1,003,500
Mechanical pipe-----	382,270	281,056	186,242	169,257
Structural pipe-----	278,870	323,918	275,432	209,824
Pressure tubing-----	52,100	44,944	38,044	35,282
Other (including standard)-----	996,487	829,195	965,519	856,077
Total-----	3,249,937	2,435,544	2,548,769	2,686,443

See footnotes at end of table.

Table 31.-- Steel mill products and certain fabricated steel products: U.S. imports for consumption of specified products and imports as a percent of major product groupings by specified periods, 1988-1991--Continued

Item	1988	1989	1990	1991
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:
Stainless and alloy tool steel:				
Stainless:				
Semifinished:				
Ingots-----:	3,877	191	273	2,702
Blooms and billets-----:	40,772	42,268	41,560	32,516
Slabs and sheet bars-----:	<u>17,758</u>	<u>19,663</u>	<u>18,989</u>	<u>13,744</u>
Total-----:	62,407	62,121	60,822	48,962
Plate-----:	15,847	17,713	20,651	21,498
Sheet and strip:				
Sheet:				
Hot rolled-----:	7,331	8,070	6,822	4,699
Cold rolled-----:	103,577	112,191	127,779	135,735
Strip-----:	<u>7,676</u>	<u>20,258</u>	<u>19,741</u>	<u>20,246</u>
Total-----:	118,584	140,519	154,342	160,680
Bars and shapes-----:	40,724	43,417	44,526	52,493
Wire rod-----:	19,210	21,698	23,128	25,897
Wire-----:	20,653	21,319	18,328	17,054
Pipe and tube-----:	36,752	37,258	47,220	48,218
Alloy tool steel (all forms):				
Semifinished 2/-----:	4,408	3,959	3,260	10,608
Bars-----:	28,867	33,488	26,843	25,407
Other-----:	<u>10,820</u>	<u>10,866</u>	<u>9,201</u>	<u>9,143</u>
Total-----:	44,095	48,313	39,304	45,158
:	:	:	:	:

See footnotes at end of table.

Table 31.-- Steel mill products and certain fabricated steel products: U.S. imports for consumption of specified products and imports as a percent of major product groupings by specified periods, 1988-1991

Item	1988	1989	1990	1991
:	:	:	:	:
:	:	:	:	:
Carbon and certain alloy 3/ steel:				
Semifinished 2/				
Ingots-----	3.71	1.21	2.84	0.14
Blooms and billets-----	20.91	23.63	21.23	29.36
Slabs and sheet bars-----	<u>75.38</u>	<u>75.16</u>	<u>75.93</u>	<u>70.51</u>
Total-----	100.00	100.00	100.00	100.00
Plate:				
Carbon-----	94.28	92.46	91.52	90.15
Alloy-----	5.72	7.54	8.48	9.85
Total-----	100.00	100.00	100.00	100.00
Sheet and strip:				
Hot rolled:				
Sheet-----	30.61	29.13	32.95	33.05
Strip-----	0.69	1.75	1.44	1.69
Cold rolled:				
Black plate-----	2.02	2.29	2.18	2.07
Electrical-----	0.90	1.35	1.13	1.31
Other sheet-----	27.99	26.99	26.82	25.85
Other strip-----	1.76	1.78	1.68	1.85
Galvanized-----	27.12	25.79	24.57	24.33
Tin plate-----	4.10	5.35	4.67	4.98
Tin free-----	1.36	1.82	1.70	1.83
Other coated-----	3.45	3.74	2.87	3.04
Total-----	100.00	100.00	100.00	100.00
Bar:				
Hot rolled:				
Carbon-----	35.04	41.60	44.86	44.67
Alloy-----	13.73	18.90	19.56	24.55
Cold rolled:				
Carbon-----	11.85	9.35	8.82	8.47
Alloy-----	3.83	3.69	4.28	4.08
Reinforcing-----	26.25	18.49	14.28	11.37
Light structural shapes-----	9.30	7.98	8.20	6.85
Total-----	100.00	100.00	100.00	100.00
:	:	:	:	:

See footnotes at end of table.

Table 31.-- Steel mill products and certain fabricated steel products: U.S. imports for consumption of specified products and imports as a percent of major product groupings by specified periods, 1988-1991--Continued

Item	1988	1989	1990	1991
Share of product group totals (percent)				
<hr/>				
Wire rod and related products:				
Wire rod:				
Carbon-----	52.83	47.11	46.14	46.87
Alloy-----	4.62	1.85	0.95	1.21
Wire:				
Carbon-----	18.96	18.76	18.49	19.74
Alloy-----	1.29	1.76	1.90	2.20
Wire products:				
Nails-----	14.21	16.69	18.40	16.80
Barbed wire-----	0.61	0.54	0.76	0.65
Wire fencing-----	0.47	2.64	2.27	2.15
Bale ties-----	0.07	0.04	0.03	0.03
Wire strand-----	3.44	7.02	7.49	5.98
Wire rope-----	3.02	3.59	3.56	4.36
Milliners wire-----	0.48	0.00	0.00	1/
Total-----	100.00	100.00	100.00	100.00
Structurals:				
Heavy-----	89.37	90.09	89.32	85.94
Fabricated-----	10.63	9.91	10.68	14.06
Total-----	100.00	100.00	100.00	100.00
Rails and related products:				
Rails-----	81.40	75.62	86.23	83.73
Joint bars and tie plates-----	2.66	4.34	2.92	4.28
Track spikes-----	0.06	1.81	0.74	1.10
Wheels and axles-----	15.88	18.23	10.11	10.89
Total-----	100.00	100.00	100.00	100.00
Pipes and tubes:				
Oil country tubular goods-----	31.76	17.63	15.21	15.35
Line pipe-----	15.63	21.64	27.30	37.35
Mechanical pipe-----	11.76	11.54	7.31	6.30
Structural pipe-----	8.58	13.30	10.81	7.81
Pressure tubing-----	1.60	1.85	1.49	1.31
Other (including standard)-----	30.66	34.05	37.88	31.87
Total-----	100.00	100.00	100.00	100.00

See footnotes at end of table.

Table 31.-- Steel mill products and certain fabricated steel products: U.S. imports for consumption of specified products and imports as a percent of major product groupings by specified periods, 1988-1991--Continued

Item	1988	1989	1990	1991
:	:	:	:	:
:	:	:	:	:
Stainless and alloy tool steel:				
Stainless:				
Semifinished:				
Ingots-----	6.21	0.31	0.45	5.52
Blooms and billets-----	65.33	68.04	68.33	66.41
Slabs and sheet bars-----	28.45	31.65	31.22	28.07
Total-----	100.00	100.00	100.00	100.00
Plate-----	100.00	100.00	100.00	100.00
Sheet and strip:				
Sheet:				
Hot rolled-----	6.18	5.74	4.42	2.92
Cold rolled-----	87.34	79.84	82.79	84.48
Strip-----	6.47	14.42	12.79	12.60
Total-----	100.00	100.00	100.00	100.00
Bars and shapes-----	100.00	100.00	100.00	100.00
Wire rod-----	100.00	100.00	100.00	100.00
Wire-----	100.00	100.00	100.00	100.00
Pipe and tube-----	100.00	100.00	100.00	100.00
Alloy tool steel (all forms):				
Semifinished 2/-----	10.00	8.19	8.30	23.49
Bars-----	65.47	69.31	68.30	56.26
Other-----	24.54	22.49	23.41	20.25
Total-----	100.00	100.00	100.00	100.00

1/ Milliners wire is included in total wire products.

2/ Semifinished steel includes ingots, blooms, billets, slabs, and sheet bars.

3/ Certain alloy refers to alloy steel other than stainless or tool steel.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 32.--Steel mill products and certain fabricated steel products:
U.S. imports for consumption, by customs areas, 1988-1991

(Short tons)

Item	1988	1989	1990	1991
Atlantic Coast-----	4,743,215	3,510,909	2,904,126	2,749,851
Great Lakes-Canadian border-----	6,342,613	5,688,226	5,758,953	5,008,112
Gulf Coast-Mexican border-----	5,938,464	4,561,954	4,609,650	4,346,274
Off-shore-----	403,506	371,695	308,790	266,550
Pacific Coast-----	6,661,267	4,085,702	4,377,647	3,808,401
Total-----	21,869,065	18,218,486	17,959,166	16,179,187

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 33.--Steel mill products and certain fabricated steel products: U.S. imports, for consumption through the Atlantic Coast customs area, 1988-1991

(Short tons)

Item	1988	1989	1990	1991
Carbon and certain alloy 1/ steel:				
Semifinished 2/-	471,964	323,401	172,652	215,983
Plate	331,537	216,546	215,847	197,091
Sheet and strip	1,771,637	1,281,884	1,189,938	1,256,840
Bars and certain shapes	220,708	155,134	102,207	75,641
Hire rod	297,606	215,013	185,722	150,070
Hire	108,857	88,009	76,338	56,557
Hire products	220,011	237,679	211,516	142,681
Structural shapes and units	602,240	458,130	192,938	91,410
Rails and related products	36,885	35,669	26,018	27,479
Pipe and tube	523,784	340,606	360,166	366,681
Total	4,585,229	3,352,071	2,733,343	2,580,435
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/-	24,249	14,669	21,028	14,741
Plate	6,134	8,900	9,071	7,984
Sheet and strip	45,874	47,438	55,716	60,363
Bars and certain shapes	22,371	22,418	19,501	23,850
Hire rod	13,526	16,289	17,513	18,497
Hire	10,593	11,848	10,169	9,195
Pipe and tube	12,391	14,468	18,163	15,230
Tool steel (all forms)	22,848	22,807	19,621	19,555
Total	157,986	158,838	170,783	169,415
Grand Total	4,743,215	3,510,909	2,904,126	2,749,851

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

2/ Semifinished steel includes ingots, blooms, billets, slabs, and steel bars.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 34.--Steel mill products and certain fabricated steel products: U.S. imports, for consumption through the Great Lakes-Canadian border customs area, 1988-1991

(Short tons)

Item	1988	1989	1990	1991
Carbon and certain alloy 1/ steel:				
Semifinished 2/-	414,978	393,604	376,130	147,430
Plate	723,681	551,017	578,160	481,880
Sheet and strip	2,396,464	2,145,556	2,380,594	2,134,104
Bars and certain shapes	625,771	650,140	590,935	557,758
Wire rod	545,070	466,968	387,724	394,153
Wire	253,271	230,319	202,258	197,111
Wire products	83,750	106,485	96,089	87,258
Structural shapes and units	522,423	375,682	399,695	267,925
Rails and related products	179,981	161,932	196,840	125,448
Pipe and tube	488,579	492,836	446,874	517,406
Total	6,233,970	5,574,539	5,655,302	4,910,472
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/-	34,966	36,980	26,516	21,834
Plate	3,246	2,652	5,084	3,143
Sheet and strip	33,923	35,682	33,840	26,619
Bars and certain shapes	4,098	4,337	8,597	9,236
Wire rod	661	822	1,064	1,866
Wire	6,053	5,832	4,816	5,214
Pipe and tube	7,833	7,190	7,942	7,264
Tool steel (all forms)	17,864	20,192	15,794	22,963
Total	108,644	113,688	103,651	97,639
Grand Total	6,342,613	5,688,226	5,758,953	5,008,112

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

2/ Semifinished steel includes ingots, blooms, billets, slabs, and steel bars.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 35.--Steel mill products and certain fabricated steel products: U.S. imports, for consumption through the Gulf Coast-Mexican border customs area, 1988-1991

(Short tons)

Item	1988	1989	1990	1991
Carbon and certain alloy 1/ steel:				
Semifinished 2/-	1,061,770	684,289	616,184	603,254
Plate	567,614	439,139	626,168	490,505
Sheet and strip	1,558,244	1,316,891	1,224,313	1,199,857
Bars and certain shapes	137,056	157,610	124,950	150,691
Hire rod	349,946	220,248	217,475	197,187
Hire	64,524	61,675	53,333	44,736
Hire products	105,823	138,125	175,874	133,800
Structural shapes and units	493,074	323,672	197,391	128,798
Rails and related products	64,016	81,408	55,424	61,407
Pipe and tube	1,493,874	1,070,870	1,236,295	1,233,240
Total	5,895,942	4,493,927	4,527,407	4,243,474
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/-	3,131	10,462	13,275	11,879
Plate	3,233	4,000	3,456	6,799
Sheet and strip	16,038	30,331	38,277	52,899
Bars and certain shapes	6,668	7,646	8,266	10,425
Hire rod	1,220	1,735	1,824	2,142
Hire	606	1,144	2,162	1,848
Pipe and tube	10,896	11,123	12,488	15,145
Tool steel (all forms)	730	1,585	2,495	1,663
Total	42,523	68,027	82,243	102,799
Grand Total	5,938,464	4,561,954	4,609,650	4,346,274

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

2/ Semifinished steel includes ingots, blooms, billets, slabs, and steel bars.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 36.--Steel mill products and certain fabricated steel products: U.S. imports, for consumption through the Off-shore customs area, 1988-1991

(Short tons)

Item	1988	1989	1990	1991
Carbon and certain alloy 1/ steel:				
Semifinished 2/-----	3/	0	3/	0
Plate-----	13,906	7,984	6,085	5,349
Sheet and strip-----	72,445	77,155	99,978	65,563
Bars and certain shapes-----	157,820	169,928	115,415	99,676
Hire rod-----	16,953	5,174	15,574	12,199
Hire-----	14,739	11,407	12,654	13,339
Wire products-----	10,190	6,070	8,213	5,953
Structural shapes and units-----	21,786	28,269	12,233	11,587
Rails and related products-----	88	333	624	439
Pipe and tube-----	93,829	64,215	37,894	49,995
Total-----	401,758	370,534	308,669	264,100
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/-----	0	0	0	0
Plate-----	3/	1	0	0
Sheet and strip-----	0	36	20	0
Bars and certain shapes-----	15	3/	10	0
Hire rod-----	0	0	0	0
Hire-----	1,690	810	64	64
Pipe and tube-----	42	18	8	2,386
Tool steel (all forms)-----	0	295	19	0
Total-----	1,748	1,161	120	2,450
Grand Total-----	403,506	371,695	308,790	266,550

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

2/ Semifinished steel includes ingots, blooms, billets, slabs, and steel bars.

3/ Less than 0.5 short tons.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 37.--Steel mill products and certain fabricated steel products: U.S. imports, for consumption through the Pacific Coast customs area, 1988-1991

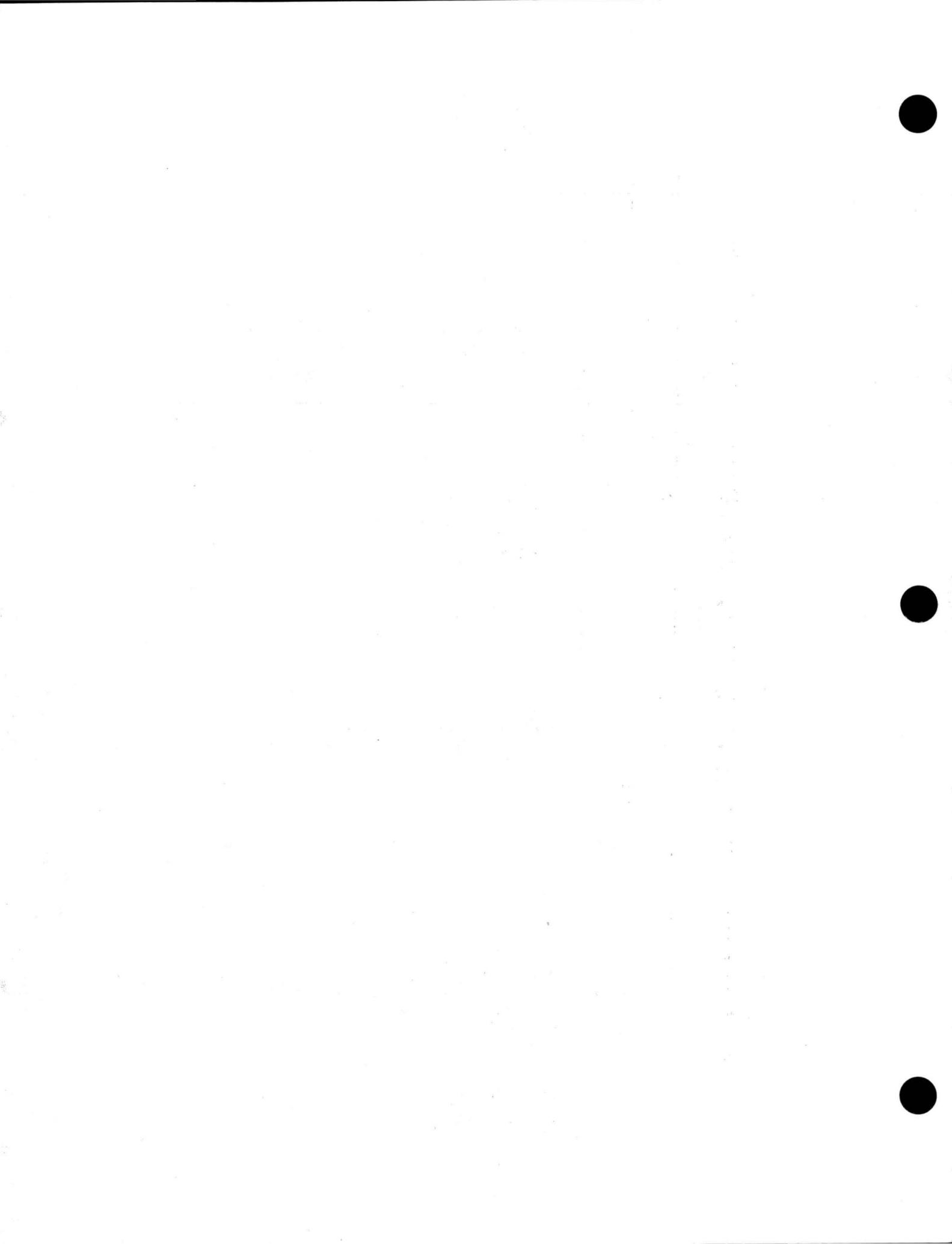
(Short tons)

Item	1988	1989	1990	1991
Carbon and certain alloy 1/ steel:				
Semifinished 2/-----	833,859	734,396	1,137,032	1,029,943
Plate-----	220,352	204,710	125,811	94,740
Sheet and strip-----	1,386,590	1,481,358	1,817,335	1,590,827
Bars and certain shapes-----	219,758	131,492	101,747	60,079
Wire rod-----	265,048	221,015	149,617	67,417
Wire-----	78,336	81,573	69,425	63,008
Wire products-----	152,677	215,243	168,632	142,147
Structural shapes and units-----	548,943	454,608	218,336	104,641
Rails and related products-----	38,461	43,644	70,650	88,822
Pipe and tube-----	649,871	467,017	467,540	519,121
Total-----	4,393,893	4,035,056	4,326,124	3,760,745
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/-----	61	10	3	507
Plate-----	3,233	2,159	3,039	3,574
Sheet and strip-----	22,749	27,032	26,489	20,799
Bars and certain shapes-----	7,573	9,015	8,152	8,981
Wire rod-----	3,803	2,852	2,728	3,392
Wire-----	1,711	1,685	1,117	733
Pipe and tube-----	5,590	4,459	8,619	8,193
Tool steel (all forms)-----	2,653	3,433	1,376	1,478
Total-----	47,373	50,646	51,523	47,657
Grand Total-----	4,441,267	4,085,702	4,377,647	3,808,401

1/ Certain alloy refers to alloy steel other than stainless or tool steel.

2/ Semifinished steel includes ingots, blooms, billets, slabs, and steel bars.

Source: Compiled from official statistics of the U.S. Department of Commerce.



Appendix A

**Request Letter From the Honorable Dan Rostenkowski, Chairman
of the Committee on Ways and Means,
U.S. House of Representatives**

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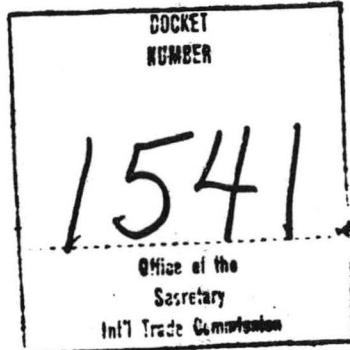
ROBERT J. LEONARD, CHIEF COUNSEL AND STAFF DIRECTOR

PHILLIP D. MOSELEY, MINORITY CHIEF OF STAFF

COMMITTEE ON WAYS AND MEANS

U.S. HOUSE OF REPRESENTATIVES
WASHINGTON, DC 20515

November 27, 1989



The Honorable Anne Brundale
Chairman
U.S. International Trade Commission
500 E Street, S.W.
Washington, D.C. 20436

Dear Madam Chairman:

The Committee on Ways and Means hereby requests the United States International Trade Commission to continue providing monthly monitoring reports on the status of the steel industry through the period ending March 31, 1992. These reports should generally follow the format of, and contain the same type of information as, the reports which the Commission has been providing under investigation no. 332-226. As you know, the purpose of these reports has been to provide the Committee with factual information for use in overseeing the implementation of the steel voluntary restraint (VRA) program. The original VRA program, and therefore our request for monthly reports, was for the period ending September 30, 1989.

In light of the fact that President Bush has authorized the negotiation of transitional VRA's for an additional two-and-one-half years, and the Congress enacted legislation to provide for the enforcement of VRA's until March 31, 1992, the Committee on Ways and Means would like to continue receiving the monthly steel reports for the duration of the transitional VRA's.

Thank you for your cooperation in this matter.

Sincerely yours,


Dan Rostenkowski
Chairman

DR/jn

6:13 p.m. 9 DEC 68

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Appendix B

**Letter from the Honorable Dan Rostenkowski, Chairman of the Committee
on Ways and Means, U.S. House of Representatives, Concerning
the Change in Publication Frequency**

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COMMITTEE ON WAYS AND MEANS

U.S. HOUSE OF REPRESENTATIVES
WASHINGTON, DC 20515

November 7, 1990

The Honorable Anne Brundale
Acting Chairman
U.S. International Trade Commission
500 E Street, S.W.
Washington, D.C. 20436

Dear Madam Chairman:

It has come to my attention that, in light of budget considerations and the scheduled termination in March 1992 of the steel voluntary restraint arrangements, you have recommended that publication of the Monthly Report on the Status of the Steel Industry (Investigation No. 332-226 under section 332 of the Tariff Act of 1930) be changed to a quarterly basis. The Committee on Ways and Means has no objection to such a change.

To reflect this change, the report's title should be changed to "Quarterly Report on the Status of the Steel Industry." The report should contain the same annual information, and year-to-date cumulative data for the current and past year. Under a quarterly publication schedule, the steel reports should be published in March, June, September, and December of each year, beginning in 1991. The final report in June 1992 should include data through March of that year.

If at any time the Committee determines that monthly publication is again required, it will make a request to that effect in writing.

Thank you for your cooperation in this matter.

Sincerely yours,


Dan Rostenkowski
Chairman

DR/jnj

Appendix C

**Notice of Continuation of Investigation No. 332-226 in the
Federal Register**

the order, *viz.*, a previous denial of entry, no longer existed.

This action is taken under the authority of section 337 of the Tariff Act of 1930 (19 U.S.C. 1337). The provisions of 19 CFR 211.57(b) with respect to serving notice on all former parties to Inv. No. 337-TA-276 and allowing a period of 30 days for the filing of answers were waived by the Commission in accordance with 19 CFR 201.4(b).

By order of the Commission.

Issued: December 28, 1989.

Kenneth R. Mason,
Secretary.

[FR Doc. 80-197 Filed 1-3-90; 8:45 am]
BILLING CODE 7020-02-01

[Investigation No. 701-TA-301
(Preliminary)]

Plastic Tubing Corrugators From Canada

Determination

On the basis of the record¹ developed in the subject investigation, the Commission determines,² pursuant to section 703(a) of the Tariff Act of 1930 (19 U.S.C. 1671b(a)), that there is no reasonable indication that an industry in the United States is materially injured, or is threatened with material injury, or the establishment of an industry in the United States is materially retarded, by reason of imports from Canada of plastic tubing corrugators, provided for in subheadings 8477.30.00 and 8477.40.00 of the Harmonized Tariff Schedule of the United States (formerly provided for in items 678.3535 and 678.3545 of the Tariff Schedules of the United States), that are alleged to be subsidized by the Government of Canada.

Background

On November 7, 1989, a petition was filed with the Commission and the Department of Commerce by Cullom Machine Tool & Die, Inc., Cleveland, TN, alleging that an industry in the United States is materially injured by reason of subsidized imports of plastic tubing corrugators and apparatus therefor from Canada. Accordingly, effective November 7, 1989, the Commission instituted preliminary countervailing duty investigation No. 701-TA-301 (Preliminary).

Notice of the institution of the Commission's investigation and of a

public conference to be held in connection therewith was given by posting copies of the notice in the Office of the Secretary, U.S. International Trade Commission, Washington, DC, and by publishing the notice in the Federal Register of November 15, 1989 (54 FR 47583). The conference was held in Washington, DC, on November 28, 1989, and all persons who requested the opportunity were permitted to appear in person or by counsel.

The Commission transmitted its determination in this investigation to the Secretary of Commerce on December 22, 1989. The views of the Commission are contained in USITC publication 2246 (December 1989), entitled "Plastic Tubing Corrugators from Canada: Determination of the Commission in Investigation No. 701-TA-301 (Preliminary) Under the Tariff Act of 1930. Together With the Information Obtained in the Investigation."

By order of the Commission.

Issued: December 28, 1989.

[FR Doc. 80-203 Filed 1-3-90; 8:45 am]
BILLING CODE 7020-02-01

[332-226]

Monthly Reports on the Status of the Steel Industry

AGENCY: United States International Trade Commission.

ACTION: Continuation of investigation and monthly reports.

FOR FURTHER INFORMATION CONTACT:
Mr. Robert Mascola (202-252-1428), Minerals and Metals Division, U.S. International Trade Commission, Washington, DC 20436.

Background

As requested in a letter received on December 6, 1989, from the Chairman, Committee on Ways and Means, U.S. House of Representatives, the Commission will continue investigation No. 332-226, and will furnish to the Committee monthly reports on the status of the steel industry through March 31, 1992. This coincides with the President's program of transitional voluntary restraint agreements (VRAs).

As requested by the Committee, the reports will continue to follow the format of, and contain the same type of information as, the reports which the Commission has heretofore provided. The reports will provide historic and current year-to-date data for the industry as a whole on items such as production, employment, shipments, trade, and financial performance.

With respect to trade, information on imports of major carbon and specialty steel products (such as plate and wire) will be provided on a country-by-country basis or regional basis for each of the countries or regions subject to VRAs, and for other major suppliers. The data will show how imports of semifinished steel and other steel products relate to overall VRA limits.

In addition, information on market penetration in major products will be provided, as will information which will track imports into five major U.S. customs regions. Finally, the report will provide data on the-unit values of imported steel.

Notice of institution of the investigation and of the initial series of reports was published in the Federal Register on April 23, 1988 (51 FR 15390).

Hearing impaired individuals are advised that information on this matter can be obtained by contacting our TDD terminal on (202) 252-1810.

By order of the Commission.

Issued: December 29, 1989.

Kenneth R. Mason,
Secretary.

[FR Doc. 80-195 Filed 1-3-90; 8:45 am]
BILLING CODE 7020-02-01

[Investigation No. 337-TA-290]

Certain Wire Electrical Discharge Machining Apparatus and Components Thereof; Commission Decision Not To Review an Initial Determination Terminating Two Respondents on the Basis of a Consent Order; Issuance of a Consent Order

AGENCY: U.S. International Trade Commission.

ACTION: Notice.

SUMMARY: Notice is hereby given that the U.S. International Trade Commission has determined not to review an initial determination (ID) (Order No. 8) issued by the presiding administrative law judge (ALJ) granting a joint motion for termination of the investigation with respect to respondents Maruka Machinery Co., Ltd. and Maruka Machinery Corporation of America.

FOR FURTHER INFORMATION CONTACT:
Craig L. McKee, Esq., Office of the General Counsel, U.S. International Trade Commission, 500 E Street, SW., Washington, DC 20436, telephone 202-252-1117. Hearing-impaired individuals are advised that information on this matter can be obtained by contacting the Commission TDD terminal on 202-252-1810.

¹ The record is defined in § 207.2(h) of the Commission's Rules of Practice and Procedure (19 CFR 207.2(h)).

² Chairman Brundage and Vice Chairman Cass dissenting.

Appendix D

**Notice of Change in Publication Frequency of Reports on the Status
of the Steel Industry in the Federal Register**

On November 26, 1990, the Commission received a letter from Ambassador Carla A. Hills, the United States Trade Representative, stating that "We have concluded that we do not need further information on this subject at this time. Therefore, in the interest of conserving the Commission's resources, the investigation may be terminated at this time. A final report will not be needed."

Issued: December 3, 1990.

By Order of the Commission.

Kenneth R. Mason,

Secretary.

[FR Doc. 90-29114 Filed 12-11-90; 8:45 am]

BILLING CODE 7020-02-M

[332-226]

Quarterly Report on the Status of the Steel Industry

AGENCY: United States International Trade Commission.

ACTION: Change in publication frequency of reports on the status of the steel industry.

FOR FURTHER INFORMATION CONTACT:
Mr. Robert Mascola (202-252-1428), Minerals and Metals Division, U.S. International Trade Commission, Washington, DC 20436.

Background

In response to a letter on November 9, 1990, from the Chairman, Committee on Ways and Means, U.S. House of Representatives, the Commission approved a change in the frequency of publication of the reports on the status of the steel industry (Investigation No. 332-226) from monthly to quarterly.

To reflect this change, the report's title will be changed to "Quarterly Report on the Status of the Steel Industry." The report will contain the same annual information, and year-to-date cumulative data for the current and past year. Under the quarterly publication schedule, reports will be published in March, June, September, and December during 1991, and in March and June during 1992.

The Committee has noted that if at any time it determines that monthly publication is again required, it will make a request to that effect to the Commission in writing.

Notice of the institution of the investigation and of the initial series of reports was published in the Federal Register on April 23, 1986 (51 FR 15390). Notice of continuation of the investigation was published in the Federal Register on January 4, 1990 (55 FR 372).

Hearing impaired individuals are advised that information on this matter can be obtained by contacting the Commission's TDD terminal on (202) 252-1810.

Issued: November 30, 1990.

By order of the Commission.

Kenneth R. Mason,

Secretary.

[FR Doc. 90-29115 Filed 12-11-90; 8:45 am]

BILLING CODE 7020-02-M

INTERSTATE COMMERCE COMMISSION

[Finance Docket No. 31778]

Dallas Area Rapid Transit; Control Exemption, Dallas Area Rapid Transit Property Acquisition Corp.

AGENCY: Interstate Commerce Commission.

ACTION: Notice of exemption.

SUMMARY: The Commission exempts from the prior approval requirements of 49 U.S.C. 11343 *et seq.* Dallas Area Rapid Transit's continuance in control of Dallas Area Rapid Transit Property Acquisition Corporation, subject to standard labor protective conditions.

DATES: The exemption will be effective December 15, 1990. Petitions for reconsideration must be filed by January 2, 1991.

ADDRESSES: Send pleadings referring to Finance Docket No. 31778 to:

(1) Office of the Secretary, Case Control Branch, Interstate Commerce Commission, Washington, DC 20423

(2) DART's representatives:

Lonnie E. Blaydes, Jr., Dallas Area Rapid Transit, 601 Pacific Area, Dallas, TX 75202

Peter A. Gilbertson, Kevin M. Sheys, Weiner, McCaffrey, Brodsky, Kaplan & Levin, P.C., Suite 800, 1350 New York Avenue NW, Washington, DC 20005-4797.

FOR FURTHER INFORMATION CONTACT: Joseph H. Dettmar, (202) 275-7245. [TDD for hearing impaired (202) 275-1721.]

SUPPLEMENTARY INFORMATION:

Additional information is contained in the Commission's decision. To purchase a copy of that decision, write to, call, or pick up in person from: Dynamic Concepts, Inc., Room 2229, Interstate Commerce Commission Building, Washington, DC 20423. Telephone: (202) 289-4357/4359. [Assistance for the hearing impaired is available through TDD services (202) 275-1721.]

Decided: December 6, 1990.

By the Commission, Chairman, Philbin, Vice Chairman Phillips, Commissioners Simmons, Emmett, and McDonald. Sidney L. Strickland, Jr., Secretary.

[FR Doc. 90-29196 Filed 12-11-90; 8:45 am]

BILLING CODE 7035-01-M

[No. 37063¹]

Increased Rates in Coal, L&N RR

October 31, 1978.

AGENCY: Interstate Commerce Commission.

ACTION: Notice of reasons for denying a petition to begin a rulemaking proceeding.

SUMMARY: On July 25, 1990 Southern Electric System, a group of six southern electric power companies, included a request for rulemaking with an appeal about a discovery ruling in this coal rate reasonableness proceeding. In the appeal decision we are denying the request to begin a rulemaking proceeding. We are publishing our reasons for the denial as required by 49 U.S.C. 10326(a).

FOR FURTHER INFORMATION CONTACT: Joseph H. Dettmar; (202) 275-7245. [TDD for hearing impaired: (202) 275-1721.]

SUPPLEMENTARY INFORMATION:

Petitioner asked us to begin a rulemaking proceeding for the purpose of adopting discovery rules that will not allow disclosure of shipper-specific revenue information without the consent of the shipper, claiming that 49 U.S.C. 11910(a) mandates such an approach. However, section 11910(a) must be read in conjunction with 49 U.S.C. 11165 and 11166(a), which, respectively, authorize the release of cost data and authorize the ICC to obtain expense and revenue information for regulatory purposes. Petitioners contend that authorization to release "cost data" does not include release of revenue information. The last sentence of section 11166(a), however, reflects Congressional recognition that both expense and revenue information can be necessary for determining railroad costs in regulatory proceedings. Moreover, the constrained market pricing standards adopted in *Coal Rate Guidelines, Nationwide*, 1 I.C.C.2d 520 (1985); aff'd *Consolidated Rail Corp. v. U.S.*, 812 F.2d 1444 (3rd Cir. 1987).

¹ Includes that portion of Ex Parte No. 357, *Increased Freight Rates and Charges, Nationwide—8 Percent*, involving a requested 13-percent increase on coal rates on L&N and its connections. Also embraces No. 3802SS, *The Dayton Power and Light Company v. Louisville and Nashville Railroad Company*.

Appendix E

**Definitions of Certain Terms, and Descriptions of the Products
Subject to the Investigation**

DEFINITIONS

1. Steel.--An alloy of iron and carbon which is malleable as first cast and which contains by weight 2 percent or less of carbon. Steel may contain other elements, but iron must predominate, by weight, over each of the other elements.

2. Carbon steel.--Steel, other than chromium, which contains by weight 2 percent or less of carbon, and in which none of the elements listed below meets or exceeds the quantity, by weight, respectively indicated:

1.65 percent of manganese, or
0.25 percent of phosphorus, or
0.35 percent of sulphur, or
0.60 percent of silicon, or
0.40 percent of copper, or
0.30 percent of aluminum, or
0.30 percent of chromium, or
0.30 percent of cobalt, or
0.40 percent of lead, or
0.30 percent of nickel, or
0.30 percent of tungsten, or
0.10 percent of any other metallic element.

3. Alloy steel.--Steel which contains any of the elements listed in definition 2 (above) in excess of its specified quantity.

(i) Stainless steel.--Any alloy steel which contains by weight 1.2 percent or less of carbon and 10.5 percent or more of chromium, with or without other elements.

(ii) Tool steel.--Alloy steel which contains the combinations of elements in the quantity, by weight, respectively indicated in Chapter XXII, subchapter III, section (viii) of the Harmonized Tariff Schedule of the United States (HTS).

4. Galvanized.--Steel which has been coated or plated with zinc.

5. Hot-rolled.--Steel which has been reduced to its final thickness by heating and rolling the product at elevated temperature (usually above 2,200° F.).

6. Cold-rolled.--Steel which has been reduced to its final thickness by rolling the product without heating it immediately prior to the rolling operation.

7. Continuous casting.--The method of producing semifinished products in which molten steel flows evenly into a caster where it is rapidly cooled, causing it to solidify directly into semifinished products such as slabs and billets.

8. Short ton.--Two thousand (2,000) pounds.

Unlike the TSUSA system of classification, the HTS do not differentiate by dimension those steel products formerly referred to as blooms and billets, slabs and sheet bars, plate, sheet, and strip. Instead, these products are included in two larger categories: flat rolled and semifinished (described below). However, for purposes of comparability with previous Monthly Reports, and in the interest of providing useful information and coverage of the steel industry, this report will continue to designate such product categories (e.g. blooms and billets, slab and sheet bars, plate, hot-rolled and cold rolled sheet, and strip). A partial basis for classification are those definitions found in Federal Register Notice 52897, December 29, 1988.

9. Semifinished products include:

Continous cast products of solid section, not presented in coils, whether or not subjected to primary hot-rolling.

Other products of solid section which have not been further worked than subjected to primary hot-rolling or roughly shaped by forging, including blanks, angles, shapes, or sections.

For the purposes of this legislation semi-finished products are classified as follows:

(i) Ingots.--Castings resulting from the solidification of molten steel and having a columnar form suitable for working by rolling or forging. Ingots are included in AISI (American Iron and Steel Institute) product group No. 1A.

(A) Carbon and certain alloy ingots; provided for in items 7206.10.0000, 7206.90.0000, 7224.10.0090 of the Harmonized Tariff Schedules of the United States (HTS).

(B) Stainless steel ingots; provided for in item 7218.10.0000 of the HTS.

(ii) Blooms billets, slabs, and sheet bars.--Other continuous cast products solid cross section, which have not been further worked than subjected to primary hot-rolling or roughly shaped by forging including blanks for angles, shapes or sections. These products are not presented in coils and are included in AISI product group No. 1B.

(B) Carbon and certain alloy blooms and billets; provided for in items 7207.11.0000, 7207.12.0010, 7207.19.0030, 7207.19.0090, 7207.20.0025, 7207.20.75, 7207.20.0090, 7224.90.0040, 7224.90.0060 of the HTS.

(C) Carbon and certain alloy slabs and sheet bars; provided for in items 7207.12.0050, 7207.20.0045, 7224.90.0050 of the HTS.

(D) Stainless steel blooms and billets; provided for in items 7218.90.0010, 7218.90.0020, 7218.90.0030, 7218.90.0045, 7218.90.0055, 7218.90.0065, 7218.90.0070, 7218.90.0080, 7218.90.0090 of the HTS.

(E) Stainless steel slabs and sheet bars; provided for in item 7218.90.0035 of the HTS.

10. Flat-rolled products.--Rolled products of solid rectangular (other than square) cross section, whether perforated, corrugated, polished, or with a pattern derived from rolling, which do not conform to the definition of semifinished products above in the form of:

- coils of successively superimposed layers, or
- straight lengths, which if of a thickness less than 4.75 mm are of a width measuring at least 10 times the thickness or if of a thickness of 4.75 mm or more are of a width which exceeds 150 mm and measures at least twice the thickness. Also those products of a shape other than rectangular or square of a width of 600 mm or more, not elsewhere specified.

(i) Plates.--Flat rolled products with a thickness equal to or exceeding 4.75 mm. Plates are included in AISI product group No. 6

(A) Carbon plate; provided for in items 7208.11.0000, 7208.12.0000, 7208.21.1000, 7208.21.5000, 7208.22.1000, 7208.22.5000, 7208.31.0000, 7208.32.0000, 7208.33.1000, 7208.33.5000, 7208.41.0000, 7208.42.0000, 7208.43.0000, 7210.90.1000, 7211.11.0000, 7211.12.0000, 7211.21.0000, 7211.22.0045, 7211.22.0090 of the HTS.

(B) Alloy plate; provided for in items 7225.30.3000, 7225.40.1015, 7225.40.3000, 7225.50.6000, 7226.91.5000 of the HTS.

(C) Stainless steel plate; provided for in items 7219.11.0000, 7219.12.0000, 7219.12.0030, 7219.12.0060, 7219.12.0080, 7219.21.0000, 7219.22.0000, 7219.31.0010, 7220.11.0000 of the HTS.

(ii) Sheets and strip.--Flat rolled products less than 4.75 mm in thickness. Sheet has a width equal to or exceeding 600 mm; strip width is less than 600 mm (but at least 10 times the thickness). Sheets and strip are included in AISI product group Nos. 28, 29, 29A, 30, 31, 32, 33A, 33B, 34, 325, 36, and 37. For the purposes of this investigation, sheets and strip are classified as follows:

(A) Hot-rolled carbon and alloy sheet; provided for in items 7208.13.1000, 7208.13.5000, 7208.14.1000, 7208.14.5000, 7208.23.1000, 7208.23.5030, 7208.23.5090, 7208.24.1000, 7208.24.5030, 7208.24.5090, 7208.34.1000, 7208.34.5000, 7208.35.1000, 7208.35.5000, 7208.44.0000, 7208.45.0000, 7225.30.5030, 7225.30.7000, 7225.40.5030, 7225.40.7000, 7226.91.1030, 7226.91.1530 of the HTS.

(B) Hot-rolled carbon and alloy strip; provided for in items 7211.19.1000, 7211.19.5000, 7211.29.1000, 7211.29.3000, 7211.29.5000, 7211.29.7030, 7211.29.7060, 7211.29.7090, 7226.91.2530, 7226.91.3030, 7226.91.7000, 7226.91.8000 of the HTS.

(C) Cold-rolled carbon and alloy sheet and strip:

(a) Black plate; provided for in item 7209.24.1000 of the HTS.

(b) Electrical sheet and strip; provided for in items 7225.10.0000, 7226.10.1000, 7226.10.5030, 7226.10.5060 of the HTS.

(c) Other sheet; provided for in items 7209.11.0000, 7209.12.0030, 7209.12.0090, 7209.13.0030, 7209.13.0090, 7209.14.0030, 7209.14.0090, 7209.21.0000, 7209.22.0000, 7209.23.0000, 7209.24.5000, 7209.31.0000, 7209.32.0000, 7209.33.0000, 7209.34.0000, 7209.41.0000, 7209.42.0000, 7209.43.0000, 7209.44.0000, 7210.70.3000, 7225.50.1030, 7225.50.7000, 7225.50.8000 of the HTS.

(d) Other strip; provided for in items 7211.30.1030, 7211.30.1090, 7211.30.3000, 7211.30.5000, 7211.41.1000, 7211.41.3030, 7211.41.3090, 7211.41.5000, 7211.41.7030, 7211.41.7060, 7211.41.7090, 7211.49.1030, 7211.49.1090, 7211.49.3000, 7211.49.5030, 7211.49.5060, 7211.49.5090, 7212.40.1000, 7212.40.5000, 7226.92.1030, 7226.92.3030, 7226.92.5000, 7226.92.7000, 7226.92.8000, 7226.99.0000 of the HTS.

(D) Galvanized sheet and strip; provided for in items 7210.31.0000, 7210.39.0000, 7210.41.0000, 7210.49.0030, 7210.49.0090, 7210.70.6030, 7210.70.6060, 7212.21.0000, 7212.29.0000, 7212.30.1030, 7212.30.1090, 7212.30.3000, 7212.30.5000 of the HTS.

(E) Tin plate; provided for in items 7210.11.0000, 7210.12.0000, 7212.10.0000 of the HTS.

(F) Tin free; provided for in item 7210.50.0000 of the HTS.

(G) Other metalic coated; provided for in items
7210.20.0000, 7210.60.0000, 7210.70.6090, 7210.90.6000, 7210.90.90000,
7212.50.0000, 7212.60.0000 of the HTS.

(H) Stainless steel hot-rolled sheet; provided for in items
7219.13.0030, 7219.13.0060, 7219.14.0030, 7219.14.0060, 7219.23.0030,
7219.23.0060, 7219.24.0030, 7219.24.0060 of the HTS.

(I) Stainless steel cold-rolled sheet; provided for in
items 7219.32.0015, 7219.32.0030, 7219.32.0045, 7219.32.0060, 7219.33.0015,
7219.33.0030, 7219.33.0045, 7219.33.0060, 7219.34.0010, 7219.34.0050,
7219.35.0010, 7219.35.0050 of the HTS.

(J) Stainless steel strip; provided for in items
7220.12.1000, 7220.12.5000, 7220.20.1000, 7220.20.6000, 7220.20.7000,
7220.20.8000, 7220.20.9000, 7220.90.0000 of the HTS.

11. Bars.-- Hot-rolled products whether or not in irregularly wound coils, which have a solid cross section along their length in the shape of circles, segments of circles, ovals, rectangles (including squares), triangles, or other convex polygons. Such products may

- have indentations, ribs, grooves or other deformations produced during the rolling process (reinforcing bars and rods);
- be twisted after rolling

For purposes of this investigation the term "bars" also includes hollow drill steel, which is a hollow product suitable for making mining drills or mining drill rods, of which the greatest external dimension of the cross-section exceeds 15 mm but does not exceed 52 mm, and of which the greatest internal dimension does not exceed one-half of the greatest external dimension. Bars and hollow drill steel are found in AISI product groups nos. 14, 14A, 15, and 16.

For the purposes of this investigation, bars and light structural shapes are classified as follows:

(i) Hot-rolled carbon bars; provided for in items 7213.390060, 7213.49.0060, 7213.50.0060, 7214.10.0000, 7214.30.0000, 7214.40.0010, 7214.40.0030, 7214.40.0050, 7214.50.0010, 7214.50.0030, 7214.50.0050, 7214.60.0010, 7214.60.0030, 7214.60.0050, 7215.90.1000 of the HTS, and included in AISI product group No. 14.

(ii) Hot-rolled alloy bars; provided for in items 7227.20.0000, 7227.90.6000, 7228.20.1000, 7228.30.8000, 7228.40.0000, 7228.60.6000, 7228.80.0000 of the HTS, and included in AISI product group No. 14.

(iii) Cold-formed carbon bars; provided for in items 7215.10.0000, 7215.20.0000, 7215.30.0000, 7215.40.0000 7215.90.3000, 7215.90.5000 of the HTS, and included in AISI product group No. 16.

(iv) Cold-formed alloy bars; provided for in items 7228.20.5000, 7228.50.5000, 7228.60.8000 of the HTS, and included in AISI product group No. 16.

(v) Reinforcing carbon and certain alloy steel bars; which are hot-rolled steel bars, of solid cross section, having deformations of various patterns on their surfaces; provided for in items 7213.10.0000, 7214.20.0000 of the HTS, and included in AISI product group No. 15.

(vi) Light structural shapes; which are bar-size light shapes having a cross-sectional dimension of less than 7.62 cm provided for in items 7216.10.0010, 7216.10.0050, 7216.21.0000, 7216.22.0000, 7228.70.3060, 7228.70.3080 of the HTS, and included in AISI product group No. 14A.

(vii) Stainless steel bars and shapes; provided for in items 7221.00.0060, 7221.00.0080, 7222.10.0000, 7222.20.0030, 7222.20.0060, 7222.30.0000, 7222.40.3060, 7222.40.3080 of the HTS.

12. Wire rod and related products include:

(i) Wire rods.--Coiled, semifinished, hot-rolled products of solid cross section, approximately round in cross section, not under 14mm nor over 19mm in diameter. Wire rods are included in AISI product group No. 3.

For the purposes of this investigation, wire rod is classified as follows:

(A) Carbon steel wire rod; provided for in items 7213.31.3000, 7213.31.6000, 7213.39.0030, 7213.39.0090, 7213.41.3000, 7213.41.6000, 7213.49.0030, 7213.49.0090, 7213.50.0020, 7213.50.0040, 7213.50.0080 of the HTS.

(B) Alloy steel wire rod; provided for in items 7227.90.1030, 7227.90.2030, 7228.30.2000, 7228.50.1010, 7228.60.1030 of the HTS.

(C) Stainless steel wire rod; provided for in items 7221.00.0020, 7721.00.0040 of the HTS.

(ii) Steel wire.--Cold-formed products in coils, of any uniform solid cross section along their whole length, which do not conform to the definition of flat-rolled products. Steel wire is included in AISI product group No. 23.

For the purpose of this legislation, steel wire is classified as follows:

(A) Carbon steel wire; provided for in items 7217.11.1000, 7217.11.2000, 7217.11.3000, 7217.11.5020, 7217.11.5040, 7217.11.5060, 7217.11.5080, 7217.11.7030, 7217.11.7090, 7217.11.9000, 7217.12.1000, 7217.12.3030, 7217.12.3060, 7217.12.5000, 7217.12.7000, 7217.13.1000, 7217.13.3030, 7217.13.3060, 7217.13.5000, 7217.13.7000, 7217.19.5000, 7217.21.1000, 7217.21.3015, 7217.21.3030, 7217.21.3045, 7217.21.3060, 7217.21.3075, 7217.21.3090, 7217.21.5000, 7217.22.1015, 7217.22.1030, 7217.22.1050, 7217.22.5000, 7217.23.1015, 7217.23.1030, 7217.23.1050, 7217.23.5000, 7217.29.5000, 7217.31.1000, 7217.31.3015, 7217.31.3030, 7217.31.3045, 7217.31.3060, 7217.31.3075, 7217.31.3090, 7217.31.5000, 7217.32.1015, 7217.32.1030, 7217.32.1050, 7217.32.5000, 7217.33.1015, 7217.33.1030, 7217.33.1050, 7217.33.5000, 7217.39.5000 of the HTS.

(B) Alloy steel wire; provided for in items 7229.20.0000, 7229.90.1000, 7229.90.5015, 7229.90.5030, 7229.90.5050, 7229.90.9000 of the HTS.

(C) Stainless steel wire; provided for in items 7223.00.1015, 7223.00.1030, 7223.00.1045, 7223.00.1060, 7223.00.1075, 7223.00.5000, 7223.00.9000 of the HTS.

(iii) Carbon and certain alloy steel wire products as defined by the following:

(A) Nails and brads, spikes, staples, and tacks are fasteners, of one piece construction, made of round wire, and not including thumb tacks, staples in strip form, corrugated fasteners, glaziers' points, hook nails, ring nails, or fasteners suitable for use in power-actuated hand tools; as provided for in items 7317.00.1000, 7317.00.5505, 7317.00.5510, 7317.00.5520, 7317.00.5530, 7317.00.5540, 7317.00.5550, 7317.00.5560, 7317.00.5570, 7317.00.5580, 7317.00.5590, 7317.00.7500, 8305.20.0000 of the HTS. Nails and staples, are included in AISI product group No. 51 (pt.).

(B) Barbed wire is a wire, or strand of twisted wires, armed with barbs or sharp points; as provided for in item 7313.00.0000 of the HTS. Barbed wire is included in AISI product group No. 52.

(C) Wire expanded metal, grill and fencing include whether or not galvanized wholly of round wire with a maximum cross-sectional diameter of 3 mm or more, having a mesh size of 100 cm² or more, whether or not such wire is covered with plastics; as provided for in items 7314.20.0000, 7314.30.1000, 7314.30.5000, 7314.41.0000, 7314.41.0030, 7314.41.0060, 7314.42.0000, 7314.42.0030, 7314.42.0060, 7314.49.3000, 7314.49.6000, 7314.50.0000 of the HTS. The products are included in AISI product group No. 50.

(D) Baling wire and ties, with or without buckles or fastenings and whether or not coated with paint or other substance; as provided for in item 7326.20.0010 of the HTS and included in AISI product group No. 53.

(E) Wire strand is two or more wires which together constitute one of the parts which are twisted together to form rope, cord, or cordage, suitable for fencing purposes, not fitted with fittings, not made up into articles, not of brass plated wire, as provided for in items 7312.10.1030, 7312.10.1050, 7312.10.1060, 7312.10.1070, 7312.10.3005, 7312.10.3010, 7312.10.3012, 7312.10.3015, 7312.10.3020, 7312.10.3065, 7312.10.3070, 7312.10.3074, 7312.10.3075, 7312.10.3080, 7312.10.3090 of the HTS. Wire strand is included in AISI product group No. 41.

(F) Wire ropes, cables, and cordage are products made by the twisting of a number of wire strands and are not covered with nonmetallic material, not fitted with fittings, not made up into articles, and, if valued 13 cents or more per pound, not of brass plated wire; as provided for in items 7312.10.6000, 7312.10.9030, 7312.10.9060, 7312.10.9090 of the HTS. Wire ropes, cables, and cordage are included in AISI product group No. 47.

13. Structurals.--Nontubular products not conforming completely to the respective specifications set forth in the HTS for semi-finished, flat-rolled, bars and rod or wire.

(i) Heavy structural shapes having a maximum cross-sectional dimension of 7.62 cm or more, and sheet piling; as provided for in items 7216.31.0000, 7216.32.0000, 7216.33.0030, 7216.33.0060, 7216.33.0090, 7216.40.0010, 7216.40.0050, 7216.50.0000, 7222.40.3020, 7222.40.3040, 7228.70.3020, 7228.70.3040, 7301.10.0000 of the HTS and are included in AISI product group 4.

(ii) Fabricated structural units, which include columns, pillars, posts, beams, girders, and similar structural units; as provided for in items 7216.60.0000, 7216.90.0000, 7222.40.6000, 7228.70.6000, 7301.20.1000, 7301.20.5000, 7308.10.0000, 7308.20.0000, 7308.40.0000, 7308.90.3000, 7308.90.6000, 7308.90.9030, 7308.90.9090, 8430.49.4000 of the HTS. These products, are included in AISI product group No. 38 and 39.

14. Rails and related railway products as defined by the following:

(i) Rails are hot-rolled steel products, whether punched or not punched, weighing not less than 8 pounds per yard, with cross-sectional shapes intended for carrying wheel loads in railroad, railway, and crane runway applications; as provided for in items 7302.10.10, 7302.10.1015, 7302.10.1020, 7302.10.1025, 7302.10.1035, 7302.10.1040, 7302.10.1045, 7302.10.0055, 7302.10.1060, 7302.10.1065, 7302.10.1075, 7302.10.1080, 7302.10.5000, 7302.10.5020, 7302.10.5040, 7302.10.5060 of the HTS. Rails are included in AISI product group Nos. 7, 8 and 41.

(ii) Joint bars are hot-rolled steel products, usually punched or slotted, designed to connect the ends of adjacent rails in track; tie plates are hot-rolled steel products which are punched to provide holes for spikes and have one or two shoulder sections as rail guides and are used to support rails in track, to maintain track gauge, and protect the ties; all the foregoing, as provided for in items 7302.20.0000, 7302.30.0000, 7302.40.0000, 7302.90.0000 of the HTS. Joint bars and tie plates are included in AISI product group Nos. 9 and 42.

(iii) Railway track spikes, of one piece construction, used to secure tie plates or ties; as provided for in item 7317.00.6530, 7317.00.6560 of the HTS. Railway track spikes are included in AISI product group No. 51 (pt.).

(iv) Railroad and railway (RR) axles and wheels, parts thereof, and axle bars; as provided for in items 8607.19.1000, 8607.19.2000 of the HTS. These articles are included in AISI product group No. 43.

15. Pipes and tubes and blanks therefor.--Tubular products, including hollow bars and hollow billets but not including hollow drill steel, of any cross-sectional configuration, by whatever process made, whether seamless, brazed, or welded and whether with an open or lock seam or joint. For the purposes of this investigation, pipes and tubes and blanks therefor are classified as follows:

(i) Oil country tubular goods, provided for in items 7304.20.1000, 7304.20.1010, 7304.20.1020, 7304.20.1030, 7304.20.1040, 7304.20.1050, 7304.20.1060, 7304.20.1080, 7304.20.2000, 7304.20.2010, 7304.20.2020, 7304.20.2030, 7304.20.2040, 7304.20.2050, 7304.20.2060, 7304.20.2080, 7304.20.3000, 7304.20.3010, 7304.20.3020, 7304.20.3030, 7304.20.3040, 7304.20.3050, 7304.20.3060, 7304.20.3080, 7304.20.4000, 7304.20.4010, 7304.20.4020, 7304.20.4030, 7304.20.4040, 7304.20.4050, 7304.20.4060, 7304.20.4080, 7304.20.5010, 7304.20.5015, 7304.20.5030, 7304.20.5045, 7304.20.5050, 7304.20.5060, 7304.20.5075, 7304.20.6010, 7304.20.6015, 7304.20.6030, 7304.20.6045, 7304.20.6050, 7304.20.6060, 7304.20.6075, 7304.20.7000, 7304.20.8000, 7304.20.8030, 7304.20.8045, 7304.20.8060, 7305.20.2000, 7305.20.4000, 7305.20.6000, 7305.20.8000, 7306.20.1030, 7306.20.1090, 7306.20.2000, 7306.20.3000, 7306.20.4000, 7306.20.6010, 7306.20.6050, 7306.20.8010, 7306.20.8050, of the HTS. Oil country tubular goods are included in AISI product group No. 19.

(ii) Line pipe; provided for in items 7304.10.1020, 7304.10.1030, 7304.10.1045, 7304.10.1050, 7304.10.1060, 7304.10.1080, 7304.10.5020, 7304.10.5050, 7304.10.5080, 7305.11.1030, 7305.11.1060, 7305.11.5000, 7305.12.1030, 7305.12.1060, 7305.12.5000, 7305.19.1030, 7305.19.1060, 7305.19.5000, 7306.10.1010, 7306.10.1050, 7306.10.5010, 7306.10.5050 of the HTS. Line pipe is included in AISI product group No. 20.

(iii) Mechanical pipe; provided for in items 7304.31.3000, 7304.31.6050, 7304.39.0028, 7304.39.0032, 7304.39.0040, 7304.39.0044, 7304.39.0050, 7304.39.0052, 7304.39.0056, 7304.39.0068, 7304.39.0072, 7304.39.0075, 7304.51.0000, 7304.51.5090, 7304.59.1000, 7304.59.6000, 7304.59.8000, 7304.59.8020, 7304.59.8025, 7304.59.8035, 7304.59.8040, 7304.59.8050, 7304.59.8055, 7304.59.8065, 7304.59.8070, 7304.90.5000, 7304.90.7000, 7306.30.1000, 7306.30.5015, 7306.30.5020, 7306.30.5035,

7306.3.5060, 7306.30.5075, 7306.50.1000, 7306.50.5030, 7306.50.5050, 7306.50.5070, 7306.60.5000, 7306.60.7000 of the HTS. Mechanical pipe is included in AISI product group 21A.

(iv) Structural pipe; provided for in items 7304.90.1000, 7304.90.3000, 7305.31.2000, 7305.31.4000, 7305.31.6000, 7306.30.3000, 7306.50.3000, 7306.60.1000, 7306.60.3000 of the HTS. Structural pipe is included in AISI product category 22A.

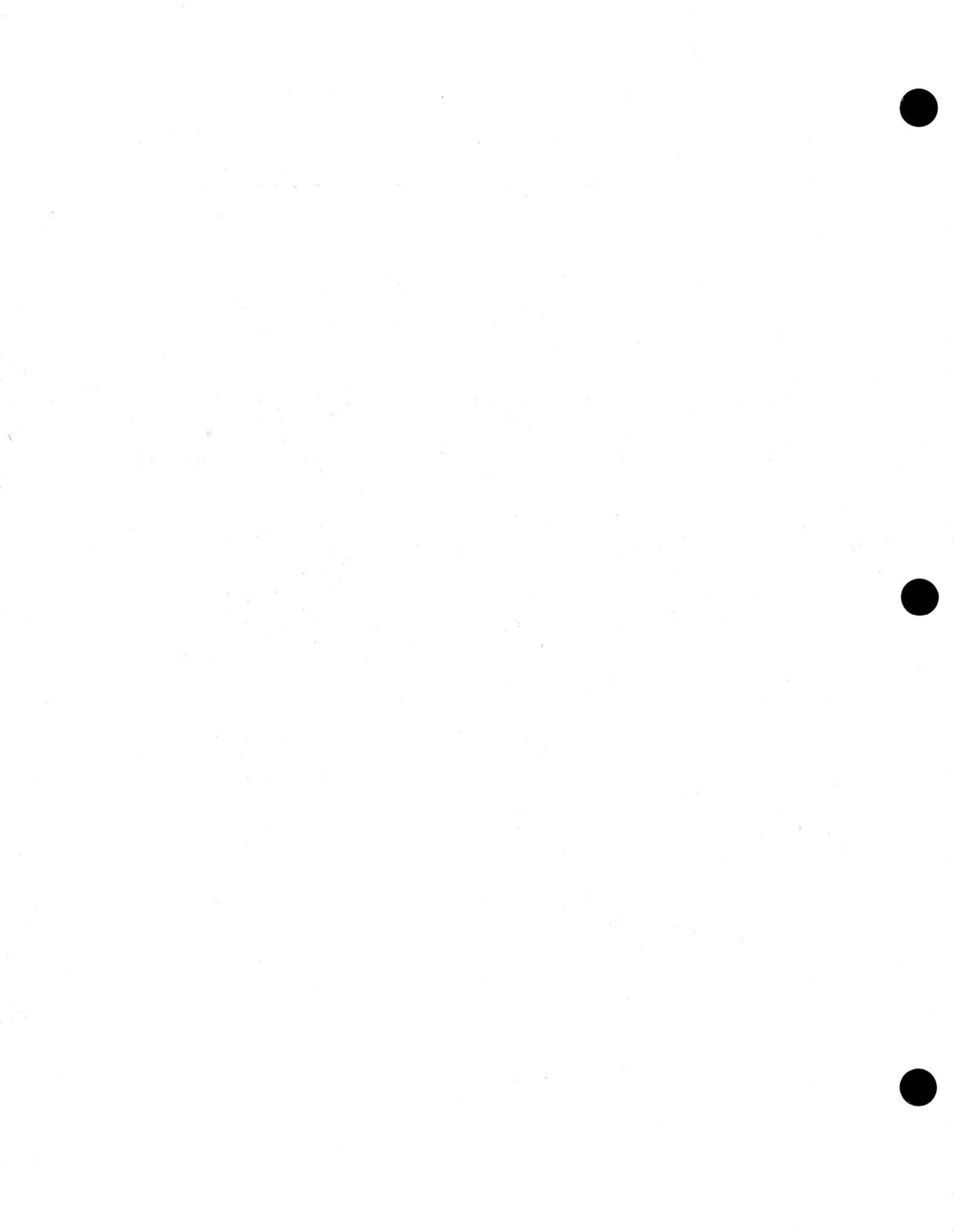
(v) Pressure tubing; provided for in items 7304.31.6010, 7304.39.0002, 7304.39.0004, 7304.39.0005, 7304.39.0006, 7304.39.0008, 7304.51.5030, 7304.51.5050, 7304.59.2030, 7304.59.2040, 7304.59.2045, 7304.59.2050, 7304.59.2055, 7304.59.2060, 7304.59.2070, 7304.59.2080, 7306.30.5010, 7306.50.5010 of the HTS. Pressure tubing is included in AISI product category 21B.

(vi) Stainless steel pipes and tubes; provided for in items 7304.41.0010, 7304.41.0050, 7304.49.0010, 7304.49.0030, 7304.49.0050, 7306.40.1000, 7306.40.5010, 7306.40.5030, 7306.40.5050, 7306.40.5070 of the HTS. Stainless steel pipes and tubes are included in AISI product categories 21C and D.

(vii) Other, including standard; provided for in items 7304.39.0010, 7304.39.0015, 7304.39.0016, 7304.39.0020, 7304.39.0024, 7304.39.0025, 7304.39.0030, 7304.39.0036, 7304.39.0040, 7304.39.0048, 7304.39.0060, 7304.39.0062, 7304.39.0070, 7304.39.0076, 7304.39.0080, 7304.39.8010, 7304.39.8015, 7304.39.8030, 7304.39.8045, 7304.39.8060, 7304.39.8080, 7304.39.0090, 7305.39.1000, 7305.39.5000, 7305.90.1000, 7305.90.5000, 7306.30.5025, 7306.30.5028, 7306.30.5030, 7306.30.5032, 7306.30.5040, 7306.30.5050, 7306.30.5055, 7306.30.5065, 7306.30.5070, 7306.30.5080, 7306.30.5085, 7306.30.5090, 7306.90.1000, 7306.90.5000 of the HTS. Other, including standard pipe is included in AISI product categories 18, 21E and 22B.

16. Alloy tool steel (all forms) provided for in items 7224.10.0030, 7224.90.0010, 7224.90.0020, 7224.90.0030, 7225.20.0000, 7225.30.1000, 7225.30.5060, 7225.40.1090, 7225.40.5060, 7225.50.1060, 7226.20.0000, 7226.91.0500, 7226.91.1060, 7226.91.1560, 7226.91.2560, 7226.91.3060, 7226.92.1060, 7226.92.3060, 7227.10.0000, 7227.90.1060, 7227.90.2060, 7228.10.0010, 7228.10.0030, 7228.10.0060, 7228.30.4000, 7228.30.6000, 7228.50.1020, 7228.50.1040, 7228.50.1060, 7228.50.1080, 7228.60.1060, 7229.10.0000 of the HTS.

Alloy tool steel is included in AISI product group No. 17. Please refer to Notes section for further explanation.



Appendix F

U.S. Exports, by Country or Region of Destination, 1988-1991

Table F-1---Steel mill products and certain fabricated steel products: U.S. exports, by specified markets, 1988-1991

Market	1988	1989	1990	1991
Quantity (short tons)				
Countries				
Canada -----	522,272	643,884	1,777,729	1,722,616
Mexico -----	398,487	543,322	715,570	1,324,147
Korea -----	46,568	726,783	308,795	870,706
Japan -----	207,333	582,173	479,299	703,823
Taiwan -----	69,013	139,544	19,017	440,037
EC countries-----	256,798	374,638	323,136	262,977
Venezuela -----	11,219	19,028	34,098	116,903
China -----	110,230	406,535	9,077	100,358
Algeria -----	6	157	323	79,907
Indonesia -----	6,626	14,578	49,103	75,168
Egypt -----	41,545	55,150	51,739	75,069
Malaysia -----	1,966	1,034	10,674	73,854
Singapore -----	8,737	97,906	28,993	64,288
Nigeria -----	1,512	8,966	19,298	60,220
Morocco -----	3,404	5,774	59,872	14,534
Australia -----	8,836	53,996	18,793	55,836
Hong Kong -----	30,472	25,945	19,903	45,441
Saudi Arabia -----	18,058	17,590	15,560	44,812
Thailand -----	18,830	103,740	62,662	36,143
Turkey -----	3,487	57,318	18,161	35,436
Ecuador -----	7,087	4,637	48,534	32,806
Argentina -----	44,343	44,073	4,846	24,243
Pakistan -----	43,172	31,838	27,554	20,961
Costa Rica -----	7,572	22,106	13,646	19,706
Guatemala -----	10,484	21,485	23,112	19,334
Dominican Republic -----	11,032	51,350	52,485	18,718
Israel -----	13,172	17,082	9,919	18,426
Brazil -----	7,058	29,556	15,404	15,264
Bahamas -----	9,253	13,581	11,442	14,244
Peru -----	6,880	10,829	14,629	14,152
Colombia -----	10,962	21,329	19,514	13,610
Republic of South Africa -----	8,040	25,775	15,221	13,315
Soviet Union -----	37,887	163,232	46,394	12,768
Panama -----	3,988	3,718	5,946	12,453
Trinidad and Tobago -----	12,192	15,730	10,735	10,408
All others-----	153,354	337,211	167,973	154,051
Total-----	2,151,875	4,691,593	4,509,156	6,616,734

Table F-2.--Steel mill products and certain fabricated steel products: U.S. exports, by specified markets, 1988-1991

Market	1988	1989	1990	1991
Value (thousand dollars)				
Countries				
Canada -----:	544,726 :	558,932 :	1,277,330 :	1,302,876
Mexico -----:	334,515 :	424,868 :	530,191 :	829,369
Korea -----:	49,341 :	304,055 :	132,114 :	315,840
Japan -----:	104,948 :	243,922 :	174,776 :	236,544
Taiwan -----:	51,988 :	71,841 :	28,977 :	133,389
EC countries-----:	223,191 :	301,338 :	311,725 :	319,886
Venezuela -----:	21,511 :	23,276 :	31,273 :	88,125
China -----:	61,095 :	237,760 :	22,958 :	79,228
Algeria -----:	49 :	1,059 :	651 :	40,399
Indonesia -----:	5,559 :	5,956 :	20,564 :	22,199
Egypt -----:	31,213 :	29,100 :	34,214 :	38,294
Malaysia -----:	4,744 :	2,941 :	6,955 :	25,708
Singapore -----:	18,335 :	48,489 :	29,038 :	45,297
Nigeria -----:	2,320 :	12,088 :	37,021 :	102,337
Australia -----:	14,662 :	43,787 :	30,563 :	29,566
Hong Kong -----:	22,009 :	20,029 :	13,015 :	30,956
Saudi Arabia -----:	25,875 :	17,112 :	21,171 :	58,256
Thailand -----:	8,939 :	62,751 :	19,825 :	15,882
Turkey -----:	3,054 :	30,149 :	10,587 :	17,171
Ecuador -----:	5,802 :	4,153 :	15,141 :	15,157
Argentina -----:	20,234 :	19,584 :	6,144 :	17,357
Pakistan -----:	13,436 :	18,230 :	11,252 :	12,514
Costa Rica -----:	3,916 :	9,461 :	6,043 :	8,996
Guatemala -----:	7,783 :	6,957 :	9,846 :	8,660
Dominican Republic -----:	9,675 :	21,641 :	18,187 :	11,152
Israel -----:	19,981 :	20,898 :	19,323 :	29,480
Brazil -----:	12,602 :	22,194 :	23,006 :	18,695
Morocco -----:	2,466 :	3,369 :	19,140 :	3,711
Bahamas -----:	7,175 :	12,028 :	9,161 :	13,721
Peru -----:	6,758 :	12,572 :	11,322 :	12,240
Colombia -----:	14,449 :	25,824 :	12,440 :	15,720
Republic of South Africa -----:	7,332 :	22,204 :	13,718 :	12,909
Soviet Union -----:	24,978 :	106,763 :	21,483 :	10,330
Panama -----:	3,926 :	4,002 :	5,103 :	10,327
Trinidad and Tobago -----:	24,592 :	14,713 :	12,637 :	10,949
All others-----:	163,092 :	258,829 :	195,232 :	237,966
Total-----:	1,876,846 :	3,022,875 :	3,142,126 :	4,167,663

Table F-3.--Steel mill products and certain fabricated steel products: U.S. exports, by specified markets, 1988-1991

Market	1988	1989	1990	1991
Unit Value				
Countries				
Canada -----:	1,042.99 :	868.06 :	718.52 :	756.34
Mexico -----:	839.46 :	781.98 :	740.93 :	626.34
Korea -----:	1,059.54 :	418.36 :	427.84 :	362.74
Japan -----:	506.18 :	418.99 :	364.65 :	336.09
Taiwan -----:	753.31 :	514.83 :	1,523.72 :	303.13
EC countries--:	870.80 :	803.51 :	964.69 :	1,216.40
Venezuela -----:	1,917.34 :	1,223.22 :	917.13 :	753.83
China -----:	554.25 :	584.84 :	2,529.13 :	789.46
Algeria -----:	8,163.32 :	6,768.89 :	2,011.48 :	505.58
Indonesia -----:	838.91 :	408.57 :	418.79 :	295.33
Egypt -----:	751.31 :	527.65 :	661.28 :	510.12
Malaysia -----:	2,413.42 :	2,844.94 :	651.59 :	348.09
Singapore -----:	2,098.58 :	495.26 :	1,001.55 :	704.59
Nigeria -----:	1,534.63 :	1,348.16 :	1,918.35 :	1,699.39
Australia -----:	1,659.30 :	810.93 :	1,626.28 :	529.51
Hong Kong -----:	722.28 :	771.98 :	653.93 :	681.25
Saudi Arabia -----:	1,432.86 :	972.84 :	1,360.56 :	1,300.00
Thailand -----:	474.74 :	604.89 :	316.38 :	439.43
Turkey -----:	875.78 :	526.01 :	582.96 :	484.58
Ecuador -----:	818.71 :	895.54 :	311.97 :	462.03
Argentina -----:	456.31 :	444.35 :	1,267.88 :	715.98
Pakistan -----:	311.21 :	572.56 :	408.35 :	597.01
Costa Rica -----:	517.17 :	427.98 :	442.85 :	456.50
Guatemala -----:	742.30 :	323.82 :	426.00 :	447.93
Dominican Republic -----:	876.94 :	421.45 :	346.51 :	595.81
Israel -----:	1,516.91 :	1,223.40 :	1,948.18 :	1,599.92
Brazil -----:	1,785.37 :	750.90 :	1,493.52 :	1,224.71
Morocco -----:	724.49 :	583.51 :	319.68 :	255.34
Bahamas -----:	775.44 :	885.69 :	800.61 :	963.26
Peru -----:	982.33 :	1,160.90 :	773.99 :	864.85
Colombia -----:	1,318.05 :	1,210.76 :	637.50 :	1,155.05
Republic of South Africa -----:	912.00 :	861.45 :	901.25 :	969.48
Soviet Union -----:	659.28 :	654.06 :	463.06 :	809.04
Panama -----:	984.26 :	1,076.43 :	858.20 :	829.28
Trinidad and Tobago -----:	2,016.97 :	935.37 :	1,177.21 :	1,052.02
All others-----:	1,063.50 :	767.56 :	1,162.28 :	1,544.72
Total-----:	872.19 :	644.32 :	696.83 :	629.87

Appendix G

**Exports to the United States of Steel Products Covered by
the VRAs, October 1984-December 1985, 1986, 1987, 1988,
January-September 1989, and October 1989-December 1990**

Table G-1
Exports to the United States of steel products covered by the VRAs, October 1984 through December 1985

<u>Country</u> ¹	<u>Actual exports</u>	<u>Final 15-month export ceiling</u>	<u>Percent of export ceiling filled</u>	<u>Tonnage exceeding limits</u>
	<u>-----Metric tons-----</u>		<u>Percent</u>	<u>Metric tons</u>
Australia.....	181,918	190,623	95.4	-8,705
Brazil.....	1,760,482	1,806,681	97.4	-46,199
Czechoslovakia.....	44,418	44,418	100.0	0
East Germany.....	136,080	137,981	98.6	-1,901
EC-10 ²	4,403,871	4,401,534	100.1	2,337
Finland.....	252,826	254,752	99.2	-1,926
Hungary.....	28,626	62,370	45.9	-33,744
Japan.....	6,711,886	6,218,545	107.9	493,341
Korea.....	2,196,426	2,129,460	103.1	66,966
Mexico.....	367,161	476,417	77.1	-109,256
Poland.....	112,863	102,060	110.6	10,803
Portugal.....	145,648	118,842	122.6	26,806
Romania.....	329,027	326,590	100.7	2,437
Spain.....	693,265	693,938	99.9	-673
South Africa.....	531,821	554,654	95.9	-22,833
Venezuela.....	373,262	416,431	89.6	-43,169
Yugoslavia.....	84,280	62,763	134.3	21,517
Total.....	18,353,860	17,998,059	102.0	355,801

¹No agreement was in place in this time period for Austria, People's Republic of China, and Trinidad and Tobago.

²Excludes Spain and Portugal.

Source: U.S. Department of Commerce, Office of Agreements Compliance.

Table G-2
Exports to the United States of steel products covered by the VRAs, 1986

<u>Country</u> ¹	<u>Actual exports</u>	<u>Final 1986 export ceiling</u>	<u>Percent of export ceiling filled</u>	<u>Tonnage exceeding limits</u>
<u>-----Metric tons-----</u>				
Australia.....	203,595	208,993	97.42	-5,398
Austria.....	121,431	120,284	100.95	1,147
Brazil.....	1,183,446	1,238,947	95.52	-55,501
Czechoslovakia.....	32,615	37,014	88.12	-4,399
East Germany.....	83,411	83,927	99.39	-516
EC-10 ²	4,837,051	4,713,349	102.62	123,702
Finland.....	178,490	173,057	103.14	5,433
Hungary.....	20,954	30,845	67.93	-9,891
Japan.....	3,837,715	4,046,011	94.85	-208,296
Korea.....	1,445,928	1,401,403	103.18	44,525
Mexico.....	335,076	342,850	97.73	-7,774
Poland.....	61,773	71,905	85.91	-10,132
Portugal.....	18,406	18,571	99.11	-165
Romania.....	81,273	84,372	96.33	-3,099
Spain.....	543,244	582,203	93.31	-38,959
Venezuela.....	141,580	158,914	89.09	-17,334
Yugoslavia.....	13,316	13,295	100.16	21
Total.....	13,139,304	13,325,940	98.60	-186,636

¹No agreement was in place at this time for the People's Republic of China and Trinidad and Tobago.

²Excludes Spain and Portugal.

Source: U.S. Department of Commerce, Office of Agreements Compliance.

Table G-3
Exports to the United States of steel products covered by the VRAs, 1987

<u>Country</u>	<u>Actual exports</u>	<u>Final 1987 export ceiling</u>	<u>Percent of export ceiling filled</u>	<u>Tonnage exceeding limits</u>
	<u>-----Metric tons-----</u>		<u>Percent</u>	<u>Metric tons</u>
Australia.....	204,955	217,399	94.28	-12,444
Austria.....	123,341	160,031	77.07	-36,690
Brazil.....	1,314,650	1,256,036	104.67	58,614
Czechoslovakia.....	37,400	37,875	98.75	-475
East Germany.....	93,490	98,796	94.63	-5,306
EC-10 ¹	4,685,700	4,780,998	98.01	-95,298
Finland.....	167,308	171,997	97.27	-4,689
Hungary.....	30,257	30,845	98.09	-588
Japan.....	4,167,471	4,757,619	87.60	-590,148
Korea.....	1,445,030	1,463,808	98.72	-18,778
Mexico.....	311,986	358,962	86.91	-46,976
People's Republic of China.....	56,714	61,689	91.94	-4,975
Poland.....	93,144	93,338	99.79	-194
Portugal.....	30,718	31,613	97.19	-895
Romania.....	97,397	107,411	90.68	-10,014
Spain.....	477,433	579,042	82.45	-101,609
Trinidad & Tobago...	73,585	59,866	122.92	13,719
Venezuela.....	225,718	240,679	93.78	-14,961
Yugoslavia.....	10,979	10,141	108.26	838
Total.....	13,647,276	14,518,145	94.00	-870,869

¹Excludes Spain and Portugal.

Source: U.S. Department of Commerce, Office of Agreements Compliance.

Table G-4
Exports to the United States of steel products covered by the VRAs, 1988

<u>Country</u>	<u>Actual exports</u>	<u>Final 1988 export ceiling</u>	<u>Percent of export ceiling filled</u>	<u>Tonnage exceeding limits</u>
	<u>-----Metric tons-----</u>		<u>Percent</u>	<u>Metric tons</u>
Australia.....	229,854	242,764	94.68	-12,910
Austria.....	119,958	221,186	54.23	-101,228
Brazil.....	1,138,533	1,238,507	91.93	-99,974
Czechoslovakia.....	26,741	35,777	74.74	-9,036
East Germany.....	86,704	98,472	88.05	-11,768
EC-10 ¹	4,770,649	5,673,758	84.08	-903,109
Finland.....	190,385	223,348	85.24	-32,963
Hungary.....	30,481	30,845	98.82	-364
Japan.....	4,124,771	5,722,082	72.09	-1,597,311
Korea.....	1,359,248	1,760,326	77.22	-401,078
Mexico.....	372,847	451,123	82.65	-78,276
People's Republic of China.....	63,300	70,293	90.05	-6,993
Poland.....	73,153	77,411	94.50	-4,258
Portugal.....	15,115	26,564	56.90	-11,449
Romania.....	81,768	99,783	81.95	-18,015
Spain.....	498,811	691,736	72.11	-192,925
Trinidad & Tobago...	34,685	39,486	87.84	-4,801
Venezuela.....	127,851	195,145	65.52	-67,294
Yugoslavia.....	12,574	18,140	69.32	-5,566
Total.....	13,357,428	16,916,746	78.96	-3,559,318

¹Excludes Spain and Portugal.

Source: U.S. Department of Commerce, Office of Agreements Compliance.

Table G-5

Exports to the United States of steel products covered by the VRAs, January through September 1989

<u>Country</u>	<u>Actual exports</u>	<u>Final 1989 export ceiling</u>	<u>Percent of export ceiling filled</u>	<u>Tonnage exceeding limits</u>
	<u>-----Metric tons-----</u>		<u>Percent</u>	<u>Metric tons</u>
Australia.....	143,372	171,774	83.47	-28,402
Austria.....	68,383	154,384	44.29	-86,001
Brazil.....	863,721	1,008,569	85.64	-144,848
Czechoslovakia.....	17,644	28,231	62.50	-10,587
East Germany.....	35,237	74,845	47.08	-39,608
European				
Community ¹	3,018,777	4,382,688	68.88	-1,363,911
Finland.....	110,301	162,086	68.05	-51,785
Hungary.....	21,544	23,133	93.13	-1,589
Japan.....	2,604,827	4,148,053	62.80	-1,543,226
Korea.....	783,176	1,311,290	59.73	-528,114
Mexico.....	298,401	456,153	65.42	-157,752
People's Republic of China.....	41,398	55,205	74.99	-13,807
Poland.....	54,885	62,627	87.64	-7,742
Romania.....	42,268	69,334	60.96	-27,066
Trinidad & Tobago...	36,584	39,901	91.69	-3,317
Venezuela.....	134,776	154,351	87.32	-19,575
Yugoslavia.....	6,719	16,421	40.92	-9,702
Total.....	8,282,013	12,319,045	67.23	-4,037,032

¹Includes Spain and Portugal.

Source: U.S. Department of Commerce, Office of Agreements Compliance.

Table G-6

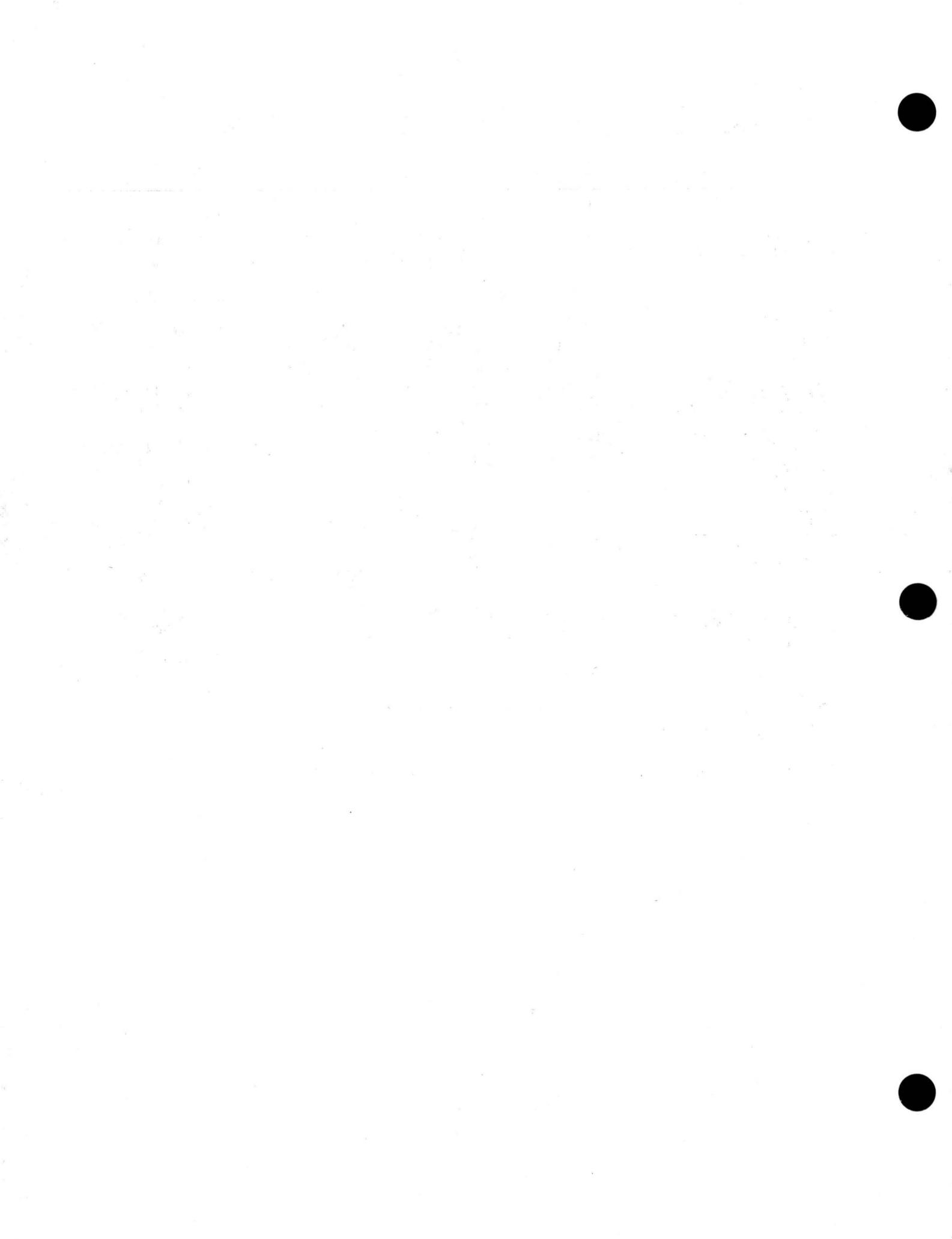
Exports to the United States of steel products covered by the VRAs, October 1, 1989 through December 31, 1990

<u>Country</u>	<u>Actual exports</u>	<u>Final 1989 export ceiling</u>	<u>Percent of export ceiling filled</u>	<u>Tonnage exceeding limits</u>
	<u>-----Metric tons-----</u>		<u>Percent</u>	<u>Metric tons</u>
Australia ¹	362,313	425,291	85.19	-62,978
Austria.....	178,319	278,304	64.07	-99,985
Brazil ¹	1,916,917	2,185,765	87.70	-268,848
Czechoslovakia.....	15,978	41,875	38.16	-25,897
East Germany.....	43,783	112,500	38.92	-68,717
European				
Community ²	5,714,499	7,601,802	75.17	-1,887,303
Finland ¹	266,471	281,035	94.82	-14,564
Hungary.....	38,549	50,000	77.10	-11,451
Japan.....	3,789,353	5,464,729	69.34	-1,675,376
Korea.....	1,820,990	2,528,694	72.01	-707,704
Mexico ¹	687,126	1,062,282	64.68	-375,156
People's Republic of China ¹	75,193	89,737	83.79	-14,544
Poland.....	78,654	143,750	54.72	-65,096
Romania.....	71,935	120,000	59.95	-48,065
Trinidad & Tobago ¹ ..	74,544	127,009	58.69	-52,465
Venezuela.....	252,161	369,097	68.32	-116,936
Yugoslavia.....	33,805	50,000	67.61	-16,195
Total.....	15,420,590	20,931,870	73.67	-5,511,280

¹ Preliminary.

² Includes Spain and Portugal.

Source: U.S. Department of Commerce, Office of Agreements Compliance.



Appendix H

**October VRA Signatories' Ceilings Tables Based on Apparent
Consumption Forecasts of DRI**

A U S T R A L I A

December 1991 Forecast of End Period U.S. Apparent Consumption of
 Arrangement Products Subject to Export Licensing
 (Metric Tons)

Categories	Apparent Consumption Forecast for End Period		Unadjusted			Actual to Forecasted Apparent Consumption		Adjusted End Period Export Ceiling
	(1,000s)*	I.P.	End Period	Ceiling	Flexibility Adjustments	Adjustment		
Semi-Finished Steel	20,445	0.205%	41,911	+++		+++	41,911	
Coated Flat Rolled	3,715	1.305%	48,474	+++		+++	48,474	
Other Flat Rolled	8,364	0.225%	18,818	+++		+++	18,818	
Pipe and Tube	1,481	0.450%	6,665	+++		+++	6,665	
Other Finished Steel	6,061	0.115%	6,970	+++		+++	6,970	

* For the Semi-finished Products category, Total Basic Steel Mill Products is used.

+++ Not yet available

A U S T R I A

December 1991 Forecast of End Period U.S. Apparent Consumption of
 Arrangement Products Subject to Export Licensing
 (Metric Tons)

Categories	Apparent Consumption Forecast for End Period		Unadjusted Arrangement End Period (1,000s)	Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment		Adjusted End Period Export Ceiling
	I.P.	Ceiling*			Unadjusted End Period Ceiling*	Actual to Forecasted Apparent Consumption Adjustment	
Flat Rolled Products	12,078	0.30%	36,234	+++	-	+++	36,234
Stainless Bar	n/a	***	63	+++	n/a	n/a	63
Stainless Rod	n/a	***	63	+++	n/a	n/a	63
OCTG	307	1.40%	4,298	+++	+++	+++	4,298
Other Pipe and Tube	1,174	0.30%	3,522	+++	+++	+++	3,522
Other Steel Products	6,817	0.11%	7,498	+++	+++	+++	7,498
Alloy Tool Steel	19	4.00%	760	+++	+++	+++	760

* Minimum unadjusted ceiling for Alloy Tool Steel is 3,000 metric tons.

*** Export ceilings are fixed tonnages.

+++ Not yet available

B R A Z I L - B

December 1991 Forecast of End Period U.S. Apparent Consumption of
 Arrangement Products Subject to Export Licensing
 (Metric Tons)

Categories	Apparent Consumption		Unadjusted			Actual to Forecasted		Adjusted End Period Export Ceiling	
	Forecast for End Period		Arrangement I.P.	End Period	Flexibility Ceiling	Apparent Consumption Adjustment			
	(1,000s)*								
Semi-Finished Products	20,445	1.057%		216,098	+++	+++		216,098	
Billets	n/a	***		43,352	+++	n/a		43,352	
Plate	1,167	1.444%		16,864	+++	+++		16,864	
Hot Rolled Sheet and Strip	3,876	1.226%		47,514	+++	+++		47,514	
Cold Rolled Sheet and Strip	3,209	1.173%		37,642	+++	+++		37,642	
Cold Rolled Strip	116	3.318%		3,857	+++	+++		3,857	
Other Sheet and Strip	3,827	0.188%		7,195	+++	+++		7,195	
Tin Plate	672	0.168%		1,129	+++	+++		1,129	
Electrical Sheet and Strip	113	0.209%		235	+++	+++		235	
Electrogalvanized Sheet	579	0.100%		579	+++	+++		579	
C/A Hot Finished Bar	2,493	1.284%		32,007	+++	+++		32,007	
C/A Cold Finished Bar	318	0.934%		2,972	+++	+++		2,972	
C/A Wire Rod	1,132	1.953%		22,098	+++	+++		22,098	
Angles, Shapes, Sections	1,589	0.450%		7,148	+++	+++		7,148	
Structurals	1,265	0.185%		2,304	+++	+++		2,304	
Rail Products	64	3.245%		2,085	+++	+++		2,085	
Wire and Wire Products	340	2.010%		6,829	+++	+++		6,829	
Wire Strand	n/a	***		1,384	+++	n/a		1,384	
Wire Rope	41	0.676%		275	+++	+++		275	
Rails	113	0.000%		0	+++	+++		0	
OCTG	n/a	***		500	+++	n/a		500	
Line Pipe	438	4.724%		20,668	+++	+++		20,668	
Other Pipe and Tubes	737	2.192%		16,144	+++	+++		16,144	
Standard Pipe	397	3.408%		13,530	+++	+++		13,530	
Structural Pipe	86	1.218%		1,044	+++	+++		1,044	
Mechanical Pipe	217	0.865%		1,879	+++	+++		1,879	
Stainless and Pressure Pipe	37	1.261%		460	+++	+++		460	
Specialty Products	78	3.088%		2,393	+++	+++		2,393	
Stainless Bar	38	2.848%		1,068	+++	+++		1,068	
Stainless Wire Rod and Wire	21	3.704%		778	+++	+++		778	
Alloy Tool Steel	19	2.712%		515	+++	+++		515	

* For the Semi-finished Products category, Total Basic Steel Mill Products is used.

*** Export ceilings are fixed tonnages.

+++ Not yet available

n/a Not Applicable

DEC 31 1991

H-5

EUROPEAN COMMUNITIES

December 1991 Forecast of End Period U.S. Apparent Consumption of
 Arrangement Products Subject to Export Licensing
 (Metric Tons)

Categories	Apparent Consumption		Unadjusted	Flexibility	Actual to Forecasted		Adjusted Export Ceiling
	Forecast for End Period (1,000s)*	Arrangement I.P.**			Adjustments	Apparent Consumption Adjustment	
Semi-Finished Products	20,445	0.76%	155,378	+++	+++	+++	155,378
Slab	n/a	***	142,948	+++	n/a	n/a	142,948
Plate	1,144	7.13%	81,585	+++	+++	+++	81,585
Hot Rolled Sheet	3,876	7.29%	282,524	+++	+++	+++	282,524
Cold Rolled Sheet	2,740	5.94%	162,741	+++	+++	+++	162,741
Black Plate	83	12.84%	10,657	+++	+++	+++	10,657
Cold Rolled Strip	116	5.34%	6,208	+++	+++	+++	6,208
Electrical Sheet and Strip	113	4.98%	5,603	+++	+++	+++	5,603
Stainless Plate	22	5.89%	1,311	+++	+++	+++	1,311
Stainless Sheet and Strip	270	5.94%	16,038	+++	+++	+++	16,038
Tin Plate	672	2.96%	19,884	+++	+++	+++	19,884
Tin-Free Steel	237	4.22%	9,991	+++	+++	+++	9,991
Other Coated Flat Rolled Products	2,806	4.51%	126,551	+++	+++	+++	126,551
Electrogalvanized	n/a	***	31,638	+++	n/a	n/a	31,638
Rebar	1,053	0.09%	947	+++	+++	+++	947
Hot Finished Bar	1,440	3.09%	44,504	+++	+++	+++	44,504
Cold Finished Bar	318	6.63%	21,100	+++	+++	+++	21,100
Stainless Bar	38	7.40%	2,775	+++	+++	+++	2,775
Carbon Wire Rod	1,093	5.70%	62,273	+++	+++	+++	62,273
Stainless Wire Rod	12	13.16%	1,612	+++	+++	+++	1,612
Alloy Wire Rod	39	19.68%	7,675	+++	+++	+++	7,675
Bar Shapes Under 80mm	279	2.48%	6,919	+++	+++	+++	6,919
Structurals	1,177	14.15%	166,476	+++	+++	+++	166,476
Sheet Piling	69	23.70%	16,291	+++	+++	+++	16,291
Fabricated Structurals	n/a	****	4,137	+++	n/a	n/a	4,137
Stainless Wire	9	15.34%	1,342	+++	+++	+++	1,342
Wire Strand	n/a	****	12,450	+++	n/a	n/a	12,450
Wire Rope	n/a	****	2,450	+++	n/a	n/a	2,450
Carbon/Alloy Wire	n/a	****	45,650	+++	n/a	n/a	45,650
Wire Products	n/a	****	6,375	+++	n/a	n/a	6,375
Rails	113	9.26%	10,418	+++	+++	+++	10,418
Rail Products	n/a	****	975	+++	n/a	n/a	975
Total Pipe and Tube	1,481	8.82%	130,624	+++	+++	+++	130,624
OCTG	307	9.00%	27,630	+++	+++	+++	27,630
Alloy Tool Steel	19	11.02%	2,094	+++	+++	+++	2,094
Other Specialty Steel	n/a	****	3,025	+++	n/a	n/a	3,025

* For the Semi-finished Products category, Total Basic Steel Mill Products is used.

** Subcategory ceiling is a fixed percentage of the larger category.

**** Export ceilings are fixed tonnages.

n/a Not Applicable

+++ Not yet Available

FINLAND

**December 1991 Forecast of End Period U.S. Apparent Consumption of
Arrangement Products Subject to Export Licensing
(Metric Tons)**

Categories	Apparent Consumption Forecast for End Period (1,000s)*		Unadjusted Arrangement I.P. End Period Ceiling	Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment	Adjusted End Period Export Ceiling
	20,445	0.016%				
Semi-Finished	20,445	0.016%	3,271	1,500	+++	4,771
Carbon/Alloy Flat Rolled	8,071	0.442%	35,675	1,125	+++	36,800
Cold Rolled Sheet	2,823	0.114%	3,218	+++	+++	3,218
Cold Rolled Strip	116	0.457%	531	+++	+++	531
Stainless Flat Rolled	292	0.978%	2,858	+++	+++	2,858
Coated Flat Rolled	3,715	0.130%	4,829	+++	+++	4,829
Electrogalvanized Sheet	579	0.130%	752	+++	+++	752
Bar and Rod	3,992	0.037%	1,477	375	+++	1,852
Carbon Cold Finished Bar	257	0.010%	26	+++	+++	26
Wire and Wire Products	349	0.024%	84	+++	+++	84
Pipe and Tube	1,481	0.140%	2,073	+++	+++	2,073
OCTG	307	0.200%	614	+++	+++	614
Other Steel Products	1,720	0.012%	206	+++	+++	206

* For the Semi-finished Products category, Total Basic Steel Mill Products is used.

+++ Not yet available

J A P A N

December 1991 Forecast of U.S. Apparent Consumption of
 Arrangement Products Subject to Export Licensing During the
 Final Period of January 1, 1991 through March 31, 1992
 (Metric Tons)

Categories	Apparent Consumption Forecast for the Final Period (1,000s) #*		Unadjusted Final Period Ceiling		Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment	Adjusted Final Period Export Ceiling
	Arrangement ~	I.P.					
Semi-Finished Steel	99,600	0.088%	87,648	6,125	1,400	95,173	
Plate	5,886	1.050%	61,803	4,279	(644)	65,438	
Sheet and Strip	51,798	6.090%	3,154,498	207,677	105,489	3,467,664	
Cold Rolled Sheet and Strip	14,268	4.870%	694,852	39,168	20,196	754,216	
Coated Sheet and Strip	12,965	12.500%	1,620,625	109,418	(18,353)	1,711,690	
Electrogalvanized	2,718	16.820%	457,168	29,371	(23,602)	462,937	
Electrical Sheet and Strip	545	7.090%	38,641	1,050	(400)	39,291	
Tin Plate	3,346	6.150%	205,779	3,178	5,211	214,168	
Tin-Free Steel	1,182	7.030%	83,095	(1,122)	4,369	86,342	
Bar	13,766	0.640%	88,102	5,814	570	94,486	
Cold Finished	1,534	2.130%	32,674	2,074	500	35,248	
Stainless Bar	189	10.470%	19,788	1,280	(419)	20,649	
Wire Rod and Wire Products	7,292	6.400%	466,688	31,892	(14,713)	483,867	
Carbon/Alloy Wire Rod	5,638	6.300%	355,194	23,538	(6,642)	372,090	
Stainless Rod	57	10.440%	5,951	106	(104)	5,953	
Structural Shapes	8,692	7.550%	656,246	45,090	(11,305)	690,031	
Rail and Rail Products	861	10.150%	87,392	(2,901)	(11,472)	73,019	
Fabricated Structural	n/a	***	63,066	4,036	n/a	67,102	
Welded H-Beams	n/a	***	37,500	2,400	n/a	39,900	
Pipe and Tube	7,685	9.190%	706,252	30,009	(14,359)	721,902	
OCTG	1,396	9.660%	134,854	7,226	(15,166)	126,914	
Line Pipe	2,501	16.480%	412,165	18,227	6,984	437,376	
Structural Pipe	466	12.760%	59,462	3,932	(3,600)	59,794	
Alloy Tool Steel	87	5.890%	5,124	400	59	5,583	

Final Period Apparent Consumption ("AC") is defined as Forecasted 1991 AC + 0.25 * 1992 AC.

* For the Semi-finished Products category, Total Basic Steel Mill Products is used.

*** Export ceilings are fixed tonnages.

+++ Not yet available

n/a Not Applicable

K O R E A

December 1991 Forecast of U.S. Apparent Consumption of
 Arrangement Products Subject to Export Licensing During the
 Final Period of January 1, 1991 through March 31, 1992
 (Metric Tons)

Categories	Apparent Consumption		Unadjusted			Actual to Forecasted	Adjusted Final Period		
	Forecast for the Final Period (1,000s) #*	Arrangement I.P.	Period	Final	Flexibility Adjustments				
				Ceiling					
Semi-Finished Steel	99,600	0.271%	269,916	+++	4,312	274,228			
Plate	5,780	1.170%	67,626	+++	(707)	66,919			
Sheet and Strip	50,505	2.380%	1,202,019	+++	38,640	1,240,659			
HR S & S	18,199	3.160%	575,088	+++	35,034	610,122			
CR S & S	14,268	2.520%	359,554	+++	10,780	370,334			
C/A Strip	n/a	***	1,500	+++	n/a	1,500			
Coated	12,965	1.800%	233,370	+++	(2,700)	230,670			
Electro-Galv	n/a	***	33,750	+++	n/a	33,750			
Electrical	n/a	***	1,500	+++	n/a	1,500			
Stainless Flat-Rolled	1,399	0.940%	13,151	+++	(17)	13,134			
Bar	13,766	0.640%	88,102	+++	599	88,701			
Stainless Bar	189	1.600%	3,024	+++	(62)	2,962			
Wire, Wire Rod & Wire Prod.	7,292	2.430%	177,196	+++	(5,783)	171,413			
Stainless Wire	n/a	***	1,125	+++	n/a	1,125			
C/A Wire	n/a	***	10,625	+++	n/a	10,625			
Stainless Rod	57	1.980%	1,129	+++	(19)	1,110			
Structurals	8,692	1.380%	119,950	+++	(2,147)	117,803			
Rails	572	0.650%	3,718	+++	139	3,857			
Fab. Structurals	n/a	***	68,040	+++	n/a	68,040			
Wire Rope	n/a	***	57,500	+++	n/a	57,500			
Wire Strand	n/a	***	36,751	+++	n/a	36,751			
Pipe & Tube	7,685	7.900%	607,115	+++	(12,732)	594,383			
Structural	466	4.430%	20,644	+++	(1,329)	19,315			
OCTG	1,396	2.900%	40,484	+++	(4,553)	35,931			
Standard	2,079	17.930%	372,765	+++	(2,690)	370,075			
Alloy Tool Steel	87	2.160%	1,879	+++	21	1,900			

Final Period Apparent Consumption ("AC") is defined Forcasted 1991 AC + 0.25 * 1992 AC.

* For the Semi-finished Products category, Total Basic Steel Mill Products is used.

*** Export ceilings are fixed tonnages.

+++ Not yet available

n/a Not Applicable

M E X I C O

December 1991 Forecast of U.S. Apparent Consumption of
 Arrangement Products Subject to Export Licensing During the
 Final Period of January 1, 1991 through March 31, 1992
 (Metric Tons)

Categories	Apparent Consumption Forecast for the Final Period			Unadjusted Final Period	Flexibility Adjustments	Actual to Forecasted Apparent Consumption	Adjusted Final Period Export Ceiling
	(1,000s) # ^a	Arrangement I.P.	Ceilings			Adjustment	Final
							Period
Semi-Finished Steel	99,600	0.27%	268,920	1,621	3,818	274,359	
C/A Flat Rolled	38,792	0.33%	128,014	9,606	4,981	142,601	
C/A HR Sheet and Strip	18,199	0.27%	49,137	3,538	3,236	55,911	
C/A CR Sheet and Strip	14,268	0.22%	31,390	2,501	836	34,727	
Plate	5,780	0.81%	46,818	234	(434)	46,618	
Stainless Flat Rolled	1,399	1.02%	14,270	514	(18)	14,766	
Coated Flat Rolled	17,493	0.77%	134,696	10,233	(7)	144,922	
Bar and Rod	19,650	1.15%	225,975	17,102	(218)	242,859	
Carbon CF Bar	1,263	0.62%	7,707	564	143	8,414	
Carbon Wire Rod	5,443	2.51%	136,619	10,456	(2,430)	144,645	
Stainless Bar and Rod	246	0.03%	74	2	(2)	74	
Angles, Shapes, Sections/Rail and Rail Products	8,692	0.83%	72,144	5,708	(1,145)	76,707	
Wire and Wire Products	1,654	3.47%	57,394	4,949	(3,960)	58,383	
Wire Rope	209	2.94%	6,145	0	1,981	8,126	
Wire Strand	n/a	***	2,317	4,100	n/a	6,417	
Panels and Mesh	1,614	1.00%	16,140	(361)	(1,135)	14,644	
Other Wire and Wire Products and Fence	1,614	2.10%	33,894	1,190	(2,402)	32,682	
Pipe and Tube	7,685	2.95%	226,708	15,753	(4,233)	238,228	
OCTG	1,396	2.60%	36,296	2,779	(3,140)	35,935	
Line Pipe	2,501	4.17%	104,292	5,344	1,638	111,274	
Standard Pipe	2,079	4.83%	100,416	8,039	(632)	107,823	
Tool Steel	87	0.36%	313	26	3	342	

Final Period Apparent Consumption ("AC") is defined as Forecasted 1991 AC + 0.25 * 1992 AC.

* For the Semi-finished Products category, Total Basic Steel Mill Products is used.

** For the Panels and Mesh and the Other Wire and Wire Products and Fence categories,

Other Wire and Wire Products is used.

*** Export ceiling is fixed tonnage.

n/a Not Applicable

VENEZUELA

December 1991 Forecast of U.S. Apparent Consumption of
 Arrangement Products Subject to Export Licensing During the
 Final Period of January 1, 1991 through March 31, 1992
 (Metric Tons)

Categories	Apparent Consumption			Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment	Adjusted Final Period Export Ceiling			
	Forecast for the Final Period (1,000s)*	Unadjusted Final							
		Arrangement I.P.	Period Ceiling						
Carbon/Alloy Flat-Rolled and									
Stainless	40,191	0.223%	89,626	+++	3,963	93,589			
Coated Flat-Rolled	17,493	0.195%	34,111	+++	(2)	34,109			
Bar and Rod	19,650	0.358%	70,347	+++	(79)	70,268			
Carbon Wire Rod	5,443	0.339%	18,452	1,020	(380)	19,092			
Rebar	5,174	0.754%	39,012	(1,020)	(769)	37,223			
Pipe & Tube	7,685	0.844%	64,861	(2,087)	(1,401)	61,373			
OCTG	1,396	0.000%	0	+++	0	0			
Line	2,501	2.246%	56,172	+++	1,011	57,183			
Standard	2,079	0.540%	11,227	(2,087)	(81)	9,059			
Other Steel Products	10,433	0.129%	13,459	+++	(374)	13,085			
Semi-Finished	99,600	0.069%	68,724	+++	1,098	69,822			

Final Period Apparent Consumption ("AC") is defined as Forecasted 1991 AC + 0.25 * 1992 AC.

* For the Semi-finished Products category, Total Basic Steel Mill Products is used.

+++ Not yet available

December 1991
 1992 Export Ceilings of Fixed Tonnage Countries
 (Metric Tons)

P O L A N D

Product Category	Tons
Plate	7,500
Stainless Bars	0
Stainless Rod	0
Wire Rod	2,500
Structurals	7,500
Wire and Wire Products	6,250
OCTG	0
Other Pipe & Tube	2,500
All Other Steel Products	2,410
Alloy Tool Steel	90
Total	28,750

E A S T G E R M A N Y

Product Category	Tons
Flat Rolled Products	13,500
Stainless Bars	0
Stainless Rod	0
Wire Rod	5,000
OCTG	0
Other Pipe & Tube	1,500
All Other Steel Products	2,500
Alloy Tool Steel	0
Total	22,500

Y U G O S L A V I A

Product Category	Tons
Stainless Bars	100
Stainless Rod	300
Wire and Wire Products	2,800
OCTG	0
Other Pipe & Tube	2,200
Other Steel Products	4,600
Alloy Tool Steel	0
Total	10,000

H U N G A R Y

Product Category	Tons
Flat Rolled Products	8,250
Stainless Bars	50
Stainless Rod	50
OCTG	0
All Other Steel Products	1,625
Alloy Tool Steel	25
Total	10,000

C Z E C H O S L O V A K I A

Product Category	Tons
Flat Rolled Products	4,000
Stainless Bars	25
Stainless Rod	50
Wire Rod	2,750
OCTG	500
All Other Steel Products	1,000
Alloy Tool Steel	50
Total	8,375

R O M A N I A

Product Category	Tons
Plate	16,000
Sheet & Strip	1,000
Stainless Bars	0
Stainless Rod	0
OCTG	500
Other Pipe & Tube	6,000
All Other Steel Products	500
Alloy Tool Steel	0
Total	24,000

1992 Export Ceilings of Fixed Tonnage Countries

THE PEOPLE'S REPUBLIC
OF CHINA

Product Category	Metric Tons
Nails	9,000
All Other Steel Products	9,625
Total	18,625

TRINIDAD AND TOBAGO

Product Category	Net Tons
Semi-Finished Steel	5,500
Bars and Rod	26,000
Wire Rod	19,500
All Other Steel Products	3,500
Total	35,000

