

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



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Introduction

The Brazilian steel industry is the largest in Latin America, accounting for about 53 percent of the region's production in 1990 (some 20.6 million metric tons) and occupying 8th place in the world that year. As recently as 1987, industry spokesmen reaffirmed Brazil's National Steel Plan, which projected a doubling of raw steel capacity to some 50 million metric tons by the end of the century.¹

In 1990, however, a stringent national economic reform plan instituted by newly elected president Fernando Collor de Mello made such expansion appear unlikely. In an effort to break the country's hyperinflation (over 2,000 percent in 1989) and create more stable economic conditions, the first Collor Plan,² introduced in March, called for a reduction in the role of the government in key industrial sectors and an opening of domestic industry to foreign competition.³

The effects of this plan on the steel industry were almost immediate. Privatization of the parastatal mills, which account for approximately 70 percent of steel production, now leads the government's industrial agenda.⁴ Accompanying this shift in emphasis, expansion plans have been curtailed, some steel prices deregulated,⁵ and distribution and import restrictions modified. Simultaneously, domestic demand plummeted as an estimated 80 percent of all personal financial assets were frozen, thereby slowing economic activity in all sectors.⁶ Moreover, many of the industry's most important customers (e.g., the automotive and construction industries) were seriously affected, a situation compounded because many domestic customers reportedly held very large steel inventories in anticipation of price hikes under a new

¹ For example, Usimar, a 3-million-metric-ton greenfield plant to produce hot-rolled coil, was to be constructed in northeast Brazil; both Italy and the Soviet Union showed interest. In addition, France's Clecim was reported to be interested in cooperating with the Brazilian flat-rolled firm, Cosipa, to install a new 1 million ton cold-rolling facility. Metal Bulletin, August 24, 1987, January 14, 1988 and February 15, 1990.

² A second economic plan was effected on January 30, 1991.

³ U.S. Department of State telegram, June 28, 1990.

⁴ The idea of privatization is not new in Brazil. In 1985, a denationalization board recommended immediate privatization of three parastatal companies. Two years later, a statement by the Sarney administration declared, "the sale of shares in Usiminas and four other Siderbras steel companies..has now been set for mid-1987." Metal Bulletin Monthly, October 1987.

⁵ Prices of non-flat and specialty products were decontrolled and it was anticipated that flat product prices would likely be freed during 1991. However, on January 30, 1991, a second economic plan froze all steel prices at the levels applicable on that day, which are reported to be 30 to 40 percent below market rates. IBS president Gonclaves de Souza as reported in Metal Bulletin, February 14, 1991.

⁶ American Metal Market, April 25, 1990.

government.⁷ As a result of these developments, the Brazilian steel industry is grappling with new problems as it struggles to meet increased foreign competition in its own market and abroad.

Industry Overview

Development of the Brazilian steel industry largely reflects historic government interest in import substitution and the establishment of self-sufficiency in steel.⁸ During the 1940s and 1950s, the Brazilian government assisted with the construction of three large integrated mills: Volta Redonda (or CSN),⁹ Usiminas¹⁰ and Cosipa. Expansion plans for the industry were outlined in the first National Steel Plan in 1970, partly in response to forecasts that steel demand would reach 40 million tons by 1985 (an overestimate of some 30 million tons). Such plans called for government involvement to be most concentrated in the flat-rolled sector of the industry, thereby ensuring a supply of critical raw materials to downstream steel-using industries. Subsequent to this decision, Siderbrás was created as a government holding company whose primary function was to channel financial assistance to parastatal steel companies and to coordinate buying and selling. Indeed, from its formation in 1973 until its dissolution in 1990, Siderbrás secured loans or directly financed more than \$20 billion for modernization and expansion of the steel industry. In doing so, it incurred debt totaling \$10 to \$13 billion.¹¹ In actuality, however, government ownership involved more than financing; it also entailed control of pricing, procurement, sales, and management and salary policies.¹² Siderbrás also owned a majority of stock in most parastatal steel companies.¹³

Since the adoption of the first National Steel Plan, Brazilian steel production has grown rapidly. In 1974 the country's mills produced an estimated 7.5 million metric tons of raw steel; by 1989, production was almost 25 million metric tons. This increase reflects both expansion and modernization of the older facilities, as well as the construction of 2 integrated plants dedicated to the production of semifinished products (Tubarao (CST) and Acominas) and a third mill dedicated to specialty steel products (Acesita). Together, the 6 parastatal mills account for virtually all semifinished and flat-rolled production (see table a).

⁷ U.S. Department of State telegram, September 1990.

⁸ Siderurgia Latinoamericana, February 1990.

⁹ Brazil's first flat-rolled integrated mill, CSN, was built with American technical assistance and credits granted by the U.S. Export-Import Bank.

¹⁰ Equipment for Usiminas was financed by an arrangement with the Japanese government-private concern, Nippon Usiminas Kabushiki Kaisha. Currently, Nippon-Usiminas owns about 13 percent of the company.

¹¹ Accounts vary on the precise amount.

¹² U.S. Department of State telegram, *ibid.*

¹³ Siderbras-owned integrated flat-rolled producers include CSN, Cosipa, Usiminas, CST and Acominas. Other parastatals include Cosinor (non-flat) and Piritani (specialty). About 80 percent of Acesita, another specialty steels producer, is owned by the Bank of Brazil.

In contrast, over 90 percent of the non-flat sector of the industry is accounted for by private companies;¹⁴ the largest of these, the Gerdau Group, owns seven domestic minimills (totaling 2.3 million tons of annual capacity), and a Canadian minimill as well.

Table a
Brazilian crude carbon steel production: Selected years, 1984-90

(Million metric tons)					
Producers	1984	1986	1988	1989	¹ 1990
Integrated mills					
Coke-based steelworks:					
Acominas ²	(3)	.6	2.1	1.9	1.9
CSN ²	2.5	3.6	3.9	3.5	2.8
Cosipa ²	2.8	2.3	2.9	3.4	2.9
CST ²	2.3	3.4	3.2	3.3	2.0
Usiminas ²	3.2	3.1	4.1	4.4	3.5
Sub-total ³	10.7	13.1	16.3	16.5	13.1
Charcoal-based					
steelworks.....	3.4	3.5	3.5	4.7	4.0
Direct reduction					
steelworks.....	.4	.5	.4	.5	.5
Minimills.....	3.8	4.2	4.4	3.4	2.9
Total ⁴	18.4	21.2	24.6	25.1	20.6

¹Preliminary figures.

²State-owned.

³No production reported.

⁴Totals may not add due to rounding.

Source: IBS Yearbook, 1990 and Metal Bulletin, February 14, 1991.

Production costs are relatively low for the industry, as Brazil has abundant high-quality iron ore and relatively low-cost labor. Steel analysts have estimated pre-tax production costs (including financial costs) for Brazilian producers to be as much as 10-25 percent lower than their U.S. integrated counterparts.¹⁵ Ore and labor cost advantages are reportedly off-set to some

¹⁴ Of the 20 producers of non-flat carbon products, 19 are private mills and of the 11 producers of specialty products, 9 are owned by private concerns.

¹⁵ In 1987, for example, pre-tax costs for hot-rolled products were estimated as \$253 per metric ton for Brazil and \$334 per metric ton for the United States. In November 1990, Brazilian pre-tax production costs for a ton of cold-rolled sheet were \$480, compared to \$513 for U.S. integrated producers. World Steel Dynamics, Steel Strategist #13 and Price Track #33.

extent by high electricity costs¹⁶ and government requirements to use domestic sources of metallurgical coal or charcoal.^{17 18} Moreover, high domestic taxes¹⁹ and export port charges of as much as \$45 per ton (in contrast to about \$8 per ton for steel shipped from Rotterdam) have increased the cost of exporting Brazilian steel products. Brazilian producers note, however, that perhaps the most deleterious policy for the industry has been government control of steel prices; at times, domestic prices have been as much as \$100 per ton lower than f.o.b. prices abroad.²⁰ Indeed, it has been estimated that the artificial pricing policies of the 1980s were responsible for as much as one-third of Siderbrás' debt.²¹

Trade

Exports.--Brazil has been a net steel exporter since 1978, with export levels consistently rising until 1990. During the 1984 to 1990 period, total steel exports increased more than 52 percent, primarily as a result of increased exports of semifinished products and plate.

Several factors contributed to this increase. For some products, particularly semifinished products and steel plate, expansion of production capacity was largely a result of intentional construction of facilities for export,²² coupled with flat domestic demand. Moreover, a variety of government export-incentive programs encouraged foreign sales as a means of garnering foreign exchange with which to service the massive national debt (now estimated at more than \$119 billion).²³ Such measures were found by the U.S. Department of

¹⁶ During January of 1991, electricity prices were increased some 86 percent. Because electricity accounts for about half the production cost of some Brazilian mills, such an increase will create "difficulties" for the industry. IBS president Gonclaves de Souza as reported in Metal Bulletin, February 14, 1991.

¹⁷ Charcoal-based integrated producers account for about 19 percent of steel production. These plants use eucalyptus briquettes rather than coking coal in their operations; as a result, the companies also maintain reforestation operations.

¹⁸ U.S. Department of State telegram, September 1990.

¹⁹ A report prepared by the Brazilian private steelmaker's association (ASP) and the foreign trade association (ACE) estimated that of the \$800 million generated annually by steel exports, \$100 million went for taxes and other obligatory government payments. Metal Bulletin Monthly, November 1990.

²⁰ American Metal Market, November 6, 1989.

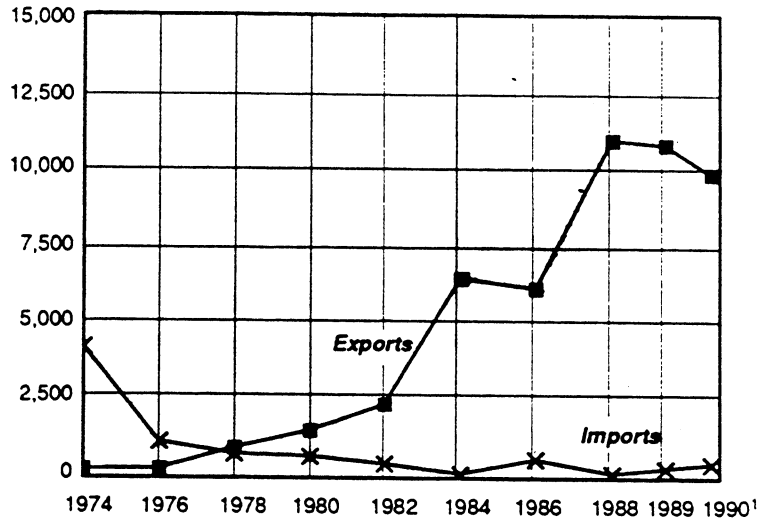
²¹ U.S. Department of State telegram, December 1985.

²² CST was envisioned as producing 3 million metric tons of slab for export in the first phase of construction, with subsequent investment to add an additional 6 million metric tons. Current capacity is about 3.4 million metric tons. See 33 Magazine, June 1976.

²³ Such measures included export financing, subsidized capital credits, and tax benefits such as exemption from corporate income taxes or accelerated depreciation. The debt figure cited is from the Bank of Brazil as of mid-year 1990.

Commerce to constitute subsidization in a number of cases,²⁴ and prompted the Brazilian government to enter into VRA agreements in order to obviate such complaints.

Brazil: Trade in steel mill products 1974-90, selected years
Thousands of metric tons



¹ Estimated.

Source: Compiled from statistics contained in *IBS Handbook, 1983 and 1990*.

While Asia now accounts for about half of total Brazilian steel exports,²⁵ the United States is the single largest foreign market for Brazilian steel (accounting for almost 13 percent by value in 1989). From the U.S. perspective, imports of steel from Brazil have remained relatively constant since acceptance of the VRA; as a percentage of total steel imports, they averaged 4 to 5 percent by value (or less than 1.5 percent of apparent consumption by quantity). Over time, the product mix of exports to the United States has changed (see table b), reflecting changes in the structure of the Brazilian industry. Semifinished and plate exports, for example, increased more than 400 percent since 1984, while many other categories decreased or remained virtually unchanged.

According to one Brazilian executive, exports were expected to climb dramatically with the collapse of Brazil's internal markets;²⁶ in fact,

²⁴ Between 1982 and 1985, 11 of 20 unfair trade cases against Brazilian steel producers (including cases alleging anti-dumping) received affirmative rulings, with additional duties assessed from between 5 percent to over 100 percent. For a list of cases during this time see Background Material Relating to the Steel Voluntary Restraint Agreement, government document WMCP 101-8.

²⁵ Within that region, Japan and China are the two largest markets, accounting for a total of 16 percent of Brazilian steel exports in 1989. IBS Handbook, 1990.

²⁶ IBS president as quoted in U.S. Department of State telegram, April 1990.

exports increased only marginally, rising from 43 percent of production in 1989 to an estimated 48 percent in 1990.²⁷ However, an overvalued currency, coupled with falling world steel prices, reportedly suppressed the total volume of exports by some 8 percent. An additional impediment was the war in the Persian Gulf, a region which formerly received about 30 percent of non-flat Brazilian steel exports.²⁸

Table b
Steel mill products and certain fabricated steel products: U.S. imports from Brazil, 1984-90, selected years

	(1,000 short tons)				
	1984	1986	1988	1989	1990
Carbon and certain alloy steel:					
Semifinished.....	145.0	405.5	720.1	666.9	813.3
Plate.....	14.3	100.4	171.5	134.8	86.6
Sheet and strip..	589.7	320.7	279.8	374.9	275.0
Bars & shapes....	289.5	53.3	96.6	50.0	84.6
Wire rod.....	23.0	50.2	58.3	57.9	70.3
Wire.....	27.6	10.7	14.1	9.4	8.5
Wire products....	24.6	14.0	15.0	10.4	12.4
Structurals.....	19.7	7.3	20.2	11.6	6.5
Rails.....	2.8	1.9	4.6	2.9	1.3
Pipe & tube.....	323.1	159.0	87.7	64.1	111.3
Total	1,459.3	1,122.9	1,468.0	1,382.9	1,469.8
Stainless and alloy tool steel.....	6.8	6.5	8.9	8.2	10.0
Total all imports...	1,466.3	1,129.4	1,476.9	1,391.1	1,479.7

Source: U.S. International Trade Commission, Monthly Report on the Status of the Steel Industry, (investigation No. 332-226).

Imports.--Prior to introduction of the first Collor plan, imports of steel mill products were strictly controlled under the Law of Similars, which prohibited imports of products produced in Brazil, and were discouraged by steel tariffs which ranged from 25 to 40 percent. Throughout much of the 1980s, imports accounted for only about one percent of domestic apparent consumption. Despite such restrictions, some products were imported to supplement national production when shortages were conspicuous. In 1989, for example, imports of cold-rolled sheet and strip accounted for almost 50 percent of all steel imports; several other large import categories also parallel industry production bottlenecks.

²⁷ Metal Bulletin January 17, 1991 and IBS Handbook, 1990.

²⁸ A continuation of the conflict will likely exacerbate the \$300 million loss by the Brazilian minimill sector in 1990, according to the private steelmakers association ASP. See Metal Bulletin, January 17, 1991.

During 1990, import restrictions were reduced and tariffs on steel imports lowered,²⁹ in accord with the general philosophy of Collor policies. Such policies failed to stimulate increased imports of most steel products, however, as depressed domestic demand and higher world prices contributed to a 30-percent decline in import levels (through November 1990). The notable exception was in imports of coated flat-rolled products, which increased almost 45 percent. This rise was partially in response to domestic shortages related to a month-long strike at Brazil's only tinsplate producer, CSN.

Outlook

Perhaps the most pressing issue for the industry is the course of privatization, which is predicated to some extent on the ability to attract foreign and domestic capital.³⁰ Several elements of the Collor plans are intended to open the way for such participation. For example, while foreign parties are currently restricted to 40 percent ownership of steel companies by the Brazilian Constitution, it is possible that Brazilian subsidiaries of those same companies may also be permitted to acquire company shares; how current foreign owners would be treated under this arrangement is unclear.³¹

Another policy likely to encourage investment is the government assumption of a large portion of Siderbrás' debt. The ability of the government to assume this debt is limited, however, by the 1989 steel consensus agreement between the United States and the Brazilian government; the terms of the agreement permit such an arrangement for only a substantial portion of Siderbrás debt. The functions performed by Siderbrás, which has been formally eliminated as a holding company, have been assumed by the Mines and Metallurgy Secretariat of the Infrastructure Ministry.

To encourage domestic participation, the government has required Brazilian banks, insurance and investment funds to acquire "privatization certificates" (CPs), which can be used to buy shares in privatized firms.³² Despite these actions, privatization efforts may be slowed by the large environmental and

²⁹ The most apparent change in import policy was an immediate lowering of tariff rates; tariffs on flat-rolled steel were reduced from 35 percent to 20 percent; for seamless tubes from 25 to 20 percent; and for tinsplate and zinc coated sheets from 25 percent to 10 percent.

³⁰ There has been some debate as to whether there is sufficient private capital available in Brazil to purchase all the companies (both steel and other) which are scheduled for privatization. The total cost for privatization of 20 parastatal firms is estimated to be a sizeable \$18 billion. Most industry analysts agree that operation and modernization of the steel industry depends on foreign capital contributions to some type of financial investment coalition. Interviews with Brazilian industry representatives and Metal Bulletin, August 20, 1990.

³¹ Several of the largest parastatal mills currently have some foreign ownership. For example, CST has 49 percent Italian and Japanese ownership (24.5 percent each) and Nippon-Usiminas has a share of Usiminas.

³² This requirement has been challenged in the courts and the viability of such a financial arrangement is reported to be questionable.

modernization expenses that are required.³³

To date, five parastatal steel mills have been named as candidates for privatization, the first two being CST and Usiminas. These are generally regarded as the most attractive assets as their financial situations are relatively strong. Moreover, Usiminas is reported to be a well-managed business with an excellent research group.³⁴ The company concentrates production in higher-value flat-rolled products and is due to bring Latin America's first electrogalvanizing line on stream in 1992, with an annual capacity of 360,000 annual metric tons. To date, there have been reports of interest in Usiminas by both foreign investors and a domestic coalition of Brazilian steel distributors, traders and downstream fabricators.³⁵

Privatization of CST and Acominas may be more problematic, as their product mix focuses on semifinished products, which have reportedly been less profitable than other product lines.³⁶ On the other hand, the companies have long-term sales contracts, including a 15-year supply contract between CST and the U.S. company California Steel for some 500,000 tons of slab annually; moreover, both mills have similar supply agreements with Taiwan's An Feng mill.³⁷ Expansion plans, which presumably would be financed by the new owners, call for investments in a continuous caster and in down-stream equipment for production of hot-rolled sheet (CST), and installation of equipment for production of rails and sections (Acominas).

CSN, Brazil's largest mill, is beset with several complications to privatization including \$2.6 billion in debt and environmental problems. One of the most significant obstacles, however, is a labor force characterized as intransigent by some industry officials, and which others believe may need to be cut by half to make the plant efficient.³⁸ During 1990, 5,000 production workers struck the plant for 31 days in support of demands for a 166-percent pay-hike; financial losses from the strike were estimated at \$45 million and lost sales at \$107 million.³⁹

Other large parastatal steel plants scheduled for later privatization include Acesita, a stainless producer, and Cosipa, an integrated flat-rolled producer

³³ A recent study for Siderbrás concluded that the 5 largest parastatal steel mills need to invest a minimum of \$320 million in pollution control equipment. American Metal Market, November 16, 1990.

³⁴ Discussions with steel industry consultant, and WEFA Group, Conquering Steel Markets, 1990.

³⁵ Metal Bulletin, November 19, 1990.

³⁶ WEFA Group, Conquering World Steel Markets, 1990.

³⁷ WEFA Group, Conquering World Steel Markets, 1990 and Metal Bulletin, March 15, 1990.

³⁸ The city of Volta Redonda, where CSN's facilities are located, was created around the mill. It is estimated that some 750,000 people depend directly or indirectly on the CSN works; CSN's monthly payroll is reported to be 900 million cruzeiros (\$17 million at the official exchange rate in April 1990.) Discussions with Brazilian industry officials, U.S. Department of State telegram, April 1990, Metal Bulletin, May 17, 1990, and IMF statistics.

³⁹ Metal Bulletin, August 16, 1990.

whose expansion plans elicited some interest from foreign parties prior to the Collor Plan.

Far-reaching changes may also be forthcoming in the distribution sector of the industry, which primarily serves the domestic market.⁴⁰ In an attempt to discourage monopolies, government policy has reserved distribution to the private sector in the past, essentially keeping domestic sales of more lucrative flat-rolled products out of the hands of the parastatal mills. There are currently more than 100 distributors of non-coated flat steel products, with 50 of these serving 90 percent of the market.

In the wake of government deregulation of the distribution network, there are already reports of increased competition among distributors. For example, CSN reports that prior to the Collor reforms, 67 percent of its output was handled by three distributors; now the company is dealing with 20 companies and the participation of the original three has been cut to 20 percent.⁴¹ With the advent of privatization, it is also possible that purchasers of state-owned enterprises may be interested in entering the domestic distribution market or alternatively, some Brazilian distributors may be interested in purchasing shares of the large integrated mills.

Implications of these significant changes for Brazilian steel trade are unclear, given the unsettled nature of industry ownership. Undoubtedly, the industry will continue to export a large percentage of its production in the short term in order to maintain production levels; existing export levels may continue indefinitely if domestic prices remain below world levels and domestic demand is curtailed. However, if the Collor Plans are successful in revitalizing and opening the Brazilian economy, modernization and expansion programs now on hold may appear more attractive to the new industry management and be revived. In addition, a liberalized economy will undoubtedly attract more competition from foreign sources, as Brazil would likely be seen as a new market opportunity for foreign producers.

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252-1431

⁴⁰ Exports are reported to represent only 5 to 10 percent of distributor's turnover. Metal Bulletin Monthly, November 1990.

⁴¹ Metal Bulletin Monthly, November 1990.

Quarterly Review:
Selected Industry and Trade Topics

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U.S. STEEL INDUSTRY HIGHLIGHTS

Figure 1
U.S. average monthly and monthly steel shipments

1,000 short tons

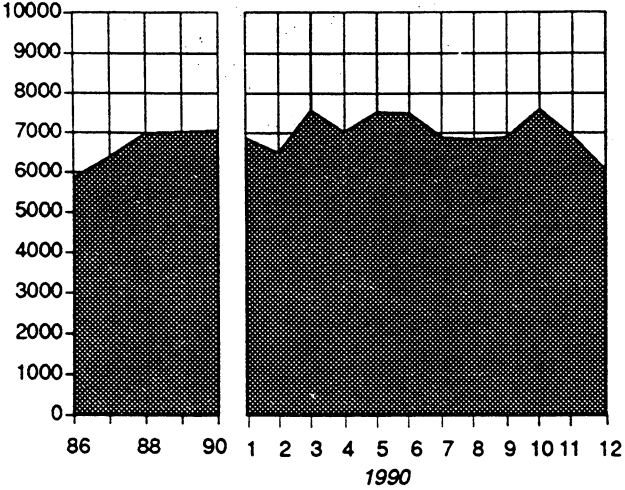


Figure 2
U.S. average monthly and monthly steel imports

1,000 short tons

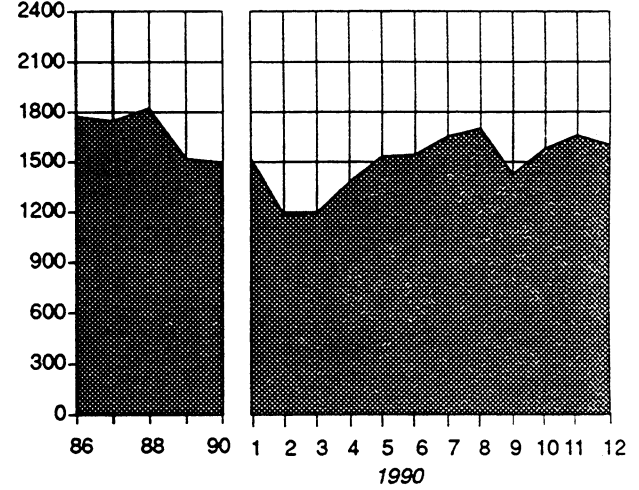


Figure 3
U.S. average monthly and monthly steel exports

1,000 short tons

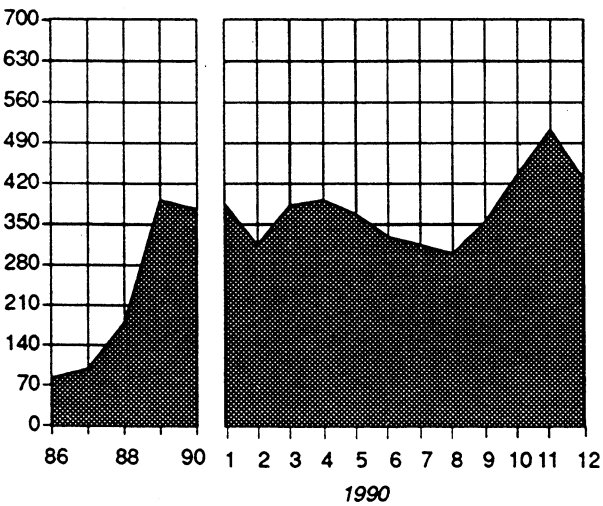
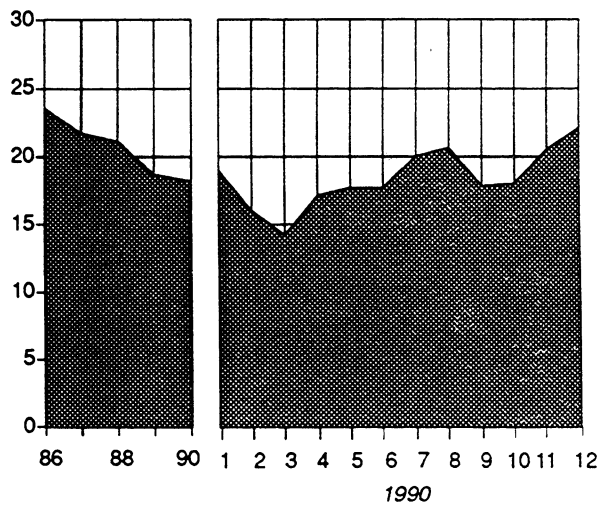


Figure 4
U.S. average monthly and monthly steel import penetration¹

Percent



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 STEEL INDUSTRY HIGHLIGHTS

Figure 5

Raw steel: Geographic distribution of world production, 1989

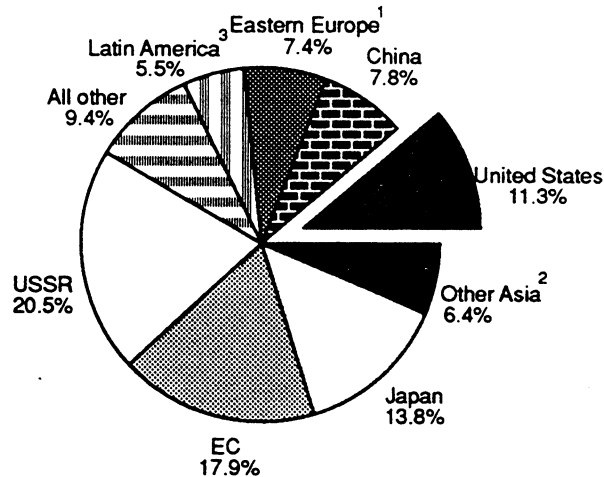
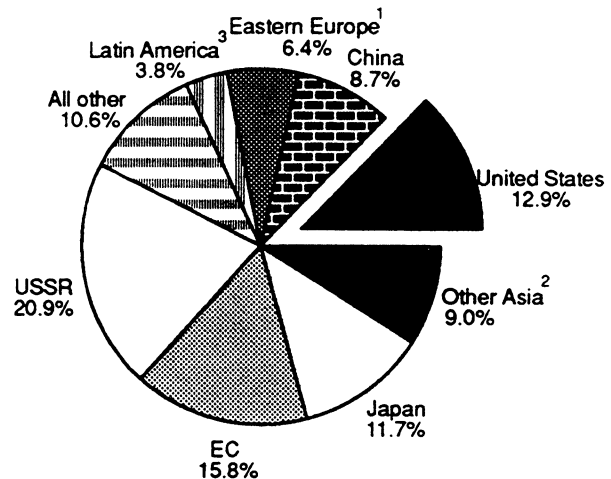


Figure 6

Raw steel: Geographic distribution of world apparent consumption, 1989



¹ Includes Bulgaria, Czechoslovakia, 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, 1980, 1990
(Million metric tons)

Company	Country	1980	1990	Volume change 1980-90	Percent change 1980-90
Nippon Steel	Japan	32.9	28.8	-4.1	-12.6
Usinor-Sacilor	France	¹ 17.4	23.3	5.9	33.7
Posco	Korea	5.9	16.2	10.3	174.9
British Steel	United Kingdom	28.4	13.8	5.4	63.7
USS	United States	21.1	12.4	-8.7	-41.5
NKK	Japan	14.0	12.1	-1.9	-13.5
ILVA	Italy	³ 13.7	11.5	-2.2	-16.0
Sumitomo Metal	Japan	12.7	11.1	-1.6	-12.3
Thyssen	Germany	12.4	11.1	-1.3	-10.2
Kawasaki	Japan	12.7	11.1	-1.6	-12.4
Bethlehem	United States	13.6	9.9	-3.7	-27.1
SAIL	India	5.6	8.7	3.1	55.2
Arbed	Luxembourg	4.6	7.7	3.1	66.7
LTV Steel	United States	48.8	7.4	-1.4	-15.5
Kobe Steel	Japan	7.4	6.6	-0.8	-11.4
Iscor	South Africa	7.0	6.3	-0.7	-9.4
BHP	Australia	7.6	6.2	-1.4	-19.1
China Steel	Taiwan	⁵ 1.4	5.9	4.5	320.7
Dofasco	Canada	3.4	⁶ 5.2	1.8	53.2
National Steel	United States	6.9	5.2	-1.7	-24.6

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

² Reflects decreased production resulting from a 13-week strike in early 1980.

³ Represents production of FINSIDER, many of whose facilities were taken over by ILVA in early 1989.

⁴ Represents combined production at Jones & Laughlin Steel and Republic Steel, which merged to form LTV Steel in 1984.

⁵ Estimated.

⁶ Includes production from Algoma Steel, which was acquired by Dofasco.

Table ii
Crude steel: Apparent consumption per capita, 1979, 1989
(Kilograms)

Selected country/region	1979	1989	Percent change 1979-89
Japan	674.5	753.8	11.8
Taiwan	300.2	701.0	133.5
Soviet Union	575.7	581.8	1.1
Canada	647.2	528.8	-18.3
Eastern Europe ¹	533.3	439.1	-17.7
Korea	199.8	418.6	109.5
United States	622.3	412.2	-33.8
EC-12	394.9	386.2	-2.2
Western Europe (excluding EC-12)	218.3	221.5	1.5
Middle East	177.1	95.0	-46.4
Mexico	128.3	86.1	-32.9
Brazil	107.9	84.5	-21.7
China	46.0	63.0	37.0
Africa	26.8	15.6	-41.8
Indonesia	12.5	13.0	4.0
World	174.3	151.1	-13.3
Memo:			
Industrialized countries	477.4	419.9	-12.0
Developing countries	46.7	44.9	-3.9
Centrally-planned economy countries	183.8	184.1	0.2

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

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

Table iii
Raw steel: Average annual production by country or region, by specified 5-year periods, 1956-90

Time period	United States	EC-12	Japan	Principal steel-producing developing countries ¹	World total
<i>Million metric tons</i>					
1956-60	91.79	85.86	14.91	14.97	299.81
1961-65	102.36	105.37	33.66	20.94	397.09
1966-70	120.76	130.63	70.46	31.35	533.66
1971-75	120.99	150.91	104.84	46.05	650.23
1976-80	115.78	145.31	107.01	69.04	706.07
1981-85	83.61	131.60	101.86	95.17	688.82
1986-90	84.62	133.35	104.14	137.90	756.19
<i>Percent of world</i>					
1956-60	30.62	28.64	4.97	4.99	100.00
1961-65	25.78	26.54	8.48	5.27	100.00
1966-70	22.63	24.48	13.20	5.87	100.00
1971-75	18.61	23.21	16.12	7.08	100.00
1976-80	16.40	20.58	15.16	9.78	100.00
1981-85	12.14	19.10	14.79	13.82	100.00
1986-90	11.19	17.63	13.77	18.24	100.00

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

Source: Compiled from statistics of the U.K. Iron and Steel Statistics Bureau and International Iron and Steel Institute.

Table iv
Raw steel: Production, by specified country and region, 1985-90

Country/region	1985	1986	1987	1988	1989	1990	Percent Change 1985-1990
<i>1,000 metric tons</i>							
Turkey	4,864	5,928	7,044	7,982	7,852	9,350	92.2
Taiwan	5,306	5,545	5,915	8,288	9,047	9,554	80.1
Korea	13,539	14,555	16,782	19,118	21,873	23,125	70.8
China	46,794	52,208	56,020	59,430	61,590	67,241	43.7
India	11,936	12,197	13,121	14,309	14,429	14,866	24.5
Mexico	7,399	7,225	7,642	7,779	7,851	8,682	17.3
United States	80,068	74,032	80,876	90,650	88,834	88,900	11.0
Japan	105,279	98,275	98,513	105,681	107,909	110,333	4.8
EC-12	135,663	125,855	126,486	137,816	140,080	136,454	0.6
Brazil	20,458	21,233	22,228	24,657	25,055	20,569	0.5
Australia	6,609	6,674	6,100	6,387	6,732	6,617	0.1
Soviet Union	154,653	160,537	161,935	163,037	160,096	154,333	-0.2
Eastern Europe ¹	42,661	43,939	44,426	43,968	42,703	36,915	-13.5
Canada	14,637	14,081	14,737	14,866	15,458	12,100	-17.3
Total selected countries/regions	649,866	642,284	661,825	703,958	706,978	699,039	7.6
All other	69,008	71,099	74,077	75,691	77,962	71,210	3.2
World total	718,874	713,383	735,902	779,649	784,940	770,249	7.1

¹ Includes Czechoslovakia, German Democratic Republic, Hungary and Poland.

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

Table v
Steel mill products: Average annual exports by region of origin, by specified period, 1970-89¹

<i>Period</i>	<i>United States</i>	<i>EC-12</i>	<i>Japan</i>	<i>Principal steel-producing developing countries²</i>	<i>All other</i>	<i>World total</i>
<i>Exports (1,000 metric tons)</i>						
1970-74	4,171	26,837	23,821	1,737	24,263	80,829
1975-79	2,440	36,418	31,970	3,966	32,251	107,045
1980-84	2,028	34,709	29,919	11,344	37,821	115,820
1985-89	1,758	31,446	25,727	17,678	50,201	126,810
<i>Percent of world</i>						
1970-74	5.2	33.2	29.5	2.1	30.0	100.0
1975-79	2.3	34.0	29.9	3.7	30.1	100.0
1980-84	1.8	30.0	25.8	9.8	32.7	100.0
1985-89	1.4	24.8	20.3	13.9	39.6	100.0
<i>Percent of shipments³</i>						
1970-74	4.4	22.5	28.8	0.9	(⁴)	16.1
1975-79	2.9	31.6	35.1	8.3	15.6	18.9
1980-84	2.4	31.3	32.1	15.7	17.2	20.5
1985-89	2.6	18.9	26.6	17.0	20.6	20.2

¹ Intra-EC trade excluded.

² Includes Brazil, Peoples Republic of China, India, Republic of Korea, Mexico, and Taiwan.

³ Derived by the staff of the International Trade Commission.

⁴ Not available.

Source: Compiled from statistics of the International Iron and Steel Institute, except as noted.

Table vi
Steel mill products: Average annual imports by region of origin, by specified period, 1970-89¹

<i>Period</i>	<i>United States</i>	<i>EC-12</i>	<i>Japan</i>	<i>Principal steel-producing developing countries²</i>	<i>All other</i>	<i>World total</i>
<i>Imports (1,000 metric tons)</i>						
1970-74	14,274	10,460	143	8,505	47,384	80,766
1975-79	15,044	12,588	464	13,115	61,805	103,015
1980-84	16,952	12,138	2,296	15,148	69,312	115,846
1985-89	18,934	12,075	5,086	22,874	68,150	127,118
<i>Percent of world</i>						
1970-74	17.7	13.0	0.2	10.5	58.7	100.0
1975-79	14.6	12.2	0.5	12.7	60.0	100.0
1980-84	14.6	10.5	2.0	13.1	59.8	100.0
1985-89	14.9	9.5	4.0	18.0	53.6	100.0
<i>Percent of apparent consumption</i>						
1970-74	13.5	10.2	0.2	4.2	(³)	16.1
1975-79	15.7	13.2	0.8	23.0	26.2	18.9
1980-84	20.6	13.7	3.5	20.0	27.6	20.5
1985-89	22.2	12.4	6.7	21.0	26.0	20.2

¹ Intra-EC trade excluded.

² Includes Brazil, Peoples Republic of China, India, Republic of Korea, Mexico, and Taiwan.

³ Not available.

Source: Compiled 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 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

Country	VRA I	First Period ¹	Second Period ¹	Third Period ¹
-----Percent-----				
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 are based on 1989 apparent consumption.

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 Monthly 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 Monthly 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

ool 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.

To reflect changes made to the Harmonized Tariff Schedule (HTS), the following HTS numbers have been added beginning with the March 1991 report: 7226.91.0500, 7226.91.1560, 7226.91.2560 (tool steel); 7226.91.1530, 7226.91.2530 (carbon and certain alloy sheet and strip).

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.

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Table
Steel. J.S. raw steel production, capability utilization, employment, wages, shipments,
imports, exports, apparent consumption, net sales 1986-90

	1986	1987	1988	1989	1990
Raw steel:					
Production (1,000 short tons)....	81,606	89,151	99,924	97,480	98,015
Capability utilization (percent).....	63.8	79.5	89.2	84.1	84.0
Continuously cast (percent).....	55.2	59.8	61.3	64.6	67.1
Employment:					
Total (thousands) ¹	273.5	268.4	277.2	277.7	270.7
Production workers (thousands) ¹	208.8	202.9	214.6	214.2	207.6
Hourly employment cost ² (dollars).....	23.24	23.71	24.65	24.63	25.62
Steel:					
Shipments (1,000 short tons)....	70,263	76,654	83,840	84,259	84,736
Imports (1,000 short tons).....	21,289	20,938	21,869	18,219	17,953
Exports (1,000 short tons).....	980	1,176	2,152	4,692	4,509
Apparent consumption (1,000 short tons).....	90,572	96,416	103,558	97,786	98,180
Ratio of imports to consumption (percent).....	23.5	21.7	21.1	18.6	18.2
Steel operations:					
Net steel sales (million dollars).....	24,875	26,933	32,466	31,969	(³)
Net steel income (million dollars).....	(4,150)	1,077	(567)	1,478	(³)
Ratio of income to net sales (percent).....	(16.7)	4	(1.7)	4.6	(³)

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

Notes for explanation).

²Total employment costs (including benefits) of employees receiving wages.

³Not available.

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, 1986-1990 (Short tons)

Item	1986	1987	1988	1989	1990
All grades of steel:					
Semifinished	1,485,249	1,593,216	1,927,658	1,850,245	1,840,594
Plate	3,564,806	4,047,919	7,327,887	7,293,115	7,965,624
Sheet and strip	40,493,141	43,288,266	44,707,915	45,376,975	43,683,953
Bars & certain shapes 1/	12,171,142	13,575,114	14,488,773	14,510,007	14,894,300
Wire rod	3,463,827	3,840,494	4,048,230	4,229,889	4,269,090
Wire	802,259	800,063	1,072,698	1,005,407	920,426
Wire products	278,068	304,761	3/	3/	3/
Structural shapes & units	4,527,632	5,119,714	5,208,754	5,438,404	5,991,661
Rails & related products	640,197	514,647	615,303	544,771	518,583
Pipe and tube	2,836,458	3,569,647	4,443,251	4,010,591	4,651,570
Total	70,262,779	76,653,841	83,840,469	84,259,404	84,735,801
Carbon & certain alloy steel:					
Semifinished	1,435,662	1,516,152	1,851,197	1,753,249	1,727,556
Plate	3,448,947	3,888,838	7,145,009	7,123,691	7,759,561
Sheet and strip	39,693,739	42,347,623	43,663,695	44,419,414	42,724,340
Bars & certain shapes	11,996,343	13,391,238	14,284,744	14,304,189	14,699,085
Wire rod	3,427,428	3,792,740	3,990,472	4,193,118	4,234,796
Wire	777,604	773,329	1,043,112	980,707	897,270
Wire products	278,068	304,761	3/	3/	3/
Structural shapes & units	4,527,632	5,119,714	5,208,754	5,438,404	5,991,661
Rails & related products	640,197	514,647	615,303	544,771	518,583
Pipe and tube	2,794,218	3,527,867	4,387,761	3,962,470	4,610,197
Total	69,019,838	75,176,909	82,190,047	82,720,013	83,163,049
Stainless & alloy tool steel:					
Stainless steel:					
Semifinished	49,587	77,064	76,461	96,996	113,038
Plate	115,859	159,081	182,878	169,424	206,063
Sheet and strip	799,402	940,643	1,044,220	957,561	959,613
Bars & certain shapes	119,024	125,441	139,752	138,618	137,512
Wire rod	36,399	47,754	57,758	36,771	34,294
Wire	24,655	26,734	29,586	24,700	23,156
Pipe and tube	42,240	41,780	55,490	48,121	41,373
Tool steel (all forms)	55,775	58,435	64,277	67,200	57,703
Total	1,242,941	1,476,932	1,650,422	1,539,391	1,572,752

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, 1986-1990
(Short tons)

Item	1986	1987	1988	1989	1990
All grades of steel:					
Semifinished	2,084,322	2,288,995	2,844,979	2,197,811	2,355,211
Plate	1,456,790	1,566,694	1,872,937	1,437,109	1,572,722
Sheet and strip	8,278,604	7,875,891	7,303,964	6,443,362	6,866,501
Bars & certain shapes 1/	1,476,368	1,359,758	1,445,932	1,356,035	1,126,694
Wire rod	1,362,753	1,467,030	1,493,833	1,150,116	979,241
Wire	582,022	555,981	540,380	494,303	432,336
Wire products	636,591	649,377	572,451	703,602	660,325
Structural shapes & units	2,179,657	2,153,669	2,188,467	1,640,361	1,020,593
Rails & related products	2,75,710	245,988	319,432	322,985	349,555
Pipe and tube	2,256,303	2,775,091	3,286,690	2,472,802	2,589,409
Total	21,289,120	20,938,474	21,869,065	18,218,486	17,952,587
Carbon & certain alloy 2/ steel:					
Semifinished	2,066,700	2,232,270	2,782,572	2,135,690	2,294,389
Plate	1,440,375	1,555,577	1,857,090	1,419,396	1,552,071
Sheet and strip	8,127,033	7,746,596	7,185,380	6,302,844	6,712,159
Bars & certain shapes	1,393,731	1,281,168	1,361,113	1,264,305	1,035,255
Wire rod	1,344,256	1,448,720	1,474,623	1,128,417	956,113
Wire	564,481	536,897	519,727	472,984	414,008
Wire products	636,591	649,377	572,451	703,602	660,325
Structural shapes & units	2,179,657	2,153,669	2,188,467	1,640,361	1,020,593
Rails & related products	275,710	245,988	319,432	322,985	349,555
Pipe and tube	2,223,029	2,748,644	3,249,937	2,435,544	2,542,189
Total	20,951,563	20,598,906	21,510,792	17,826,128	17,536,657
Stainless & alloy tool steel:					
Stainless steel:					
Semifinished	17,622	56,725	62,407	62,121	60,822
Plate	16,415	11,118	15,847	17,713	20,651
Sheet and strip	151,571	129,295	118,584	140,519	154,342
Bars & certain shapes	37,888	37,991	40,724	43,417	44,526
Wire rod	18,496	18,311	19,210	21,698	23,128
Wire	17,541	19,084	20,653	21,319	18,328
Pipe and tube	33,274	26,448	36,752	37,258	47,220
Tool steel (all forms)	44,749	40,599	44,095	48,313	46,913
Total	337,556	339,571	358,272	392,358	415,930

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, 1986-1990
(Short tons)

Item	1986	1987	1988	1989	1990
All grades of steel:					
Semifinished	58,885	73,543	61,430	390,812	497,199
Plate	69,565	96,538	119,393	630,689	483,452
Sheet and strip	507,420	556,991	1,374,056	2,521,649	1,766,622
Bars & certain shapes 1/	81,224	121,869	141,461	258,640	451,278
Wire rod	5,876	8,217	10,161	36,093	106,632
Wire	26,760	26,669	36,668	31,344	70,052
Wire products	24,731	23,257	27,847	32,160	41,548
Structural shapes & units	71,525	101,373	111,614	260,750	495,007
Rails & related products	13,131	15,755	18,855	86,464	126,629
Pipe and tube	121,050	152,155	250,390	442,992	470,779
Total	980,167	1,176,367	2,151,875	4,691,593	4,509,198
Carbon & certain alloy steel:					
Semifinished	57,932	71,362	58,598	376,984	515,848
Plate	66,042	92,057	107,546	623,412	446,843
Sheet and strip	477,803	501,010	1,328,485	2,475,995	1,710,621
Bars & certain shapes	72,134	111,619	124,911	223,749	428,311
Wire rod	5,049	6,889	8,676	30,588	101,219
Wire	24,033	22,863	32,209	28,730	66,453
Wire products	24,731	23,257	27,847	32,160	41,548
Structural shapes & units	71,525	101,373	111,614	260,750	495,007
Rails & related products	13,131	15,755	18,855	86,464	126,629
Pipe and tube	118,010	143,405	244,192	434,925	457,336
Total	930,390	1,089,590	2,062,933	4,573,757	4,389,815
Stainless & alloy tool steel:					
Semifinished	953	2,181	2,833	13,829	6,472
Plate	3,523	4,481	11,847	7,277	11,487
Sheet and strip	29,617	55,981	45,571	45,653	58,368
Bars & certain shapes	6,946	7,189	12,047	16,399	16,005
Wire rod	828	1,328	1,486	5,505	5,413
Wire	2,728	3,806	4,459	2,614	3,599
Pipe and tube	3,040	8,751	6,198	8,067	13,443
Tool steel (all forms)	2,144	3,061	4,502	18,492	4,594
Total	49,779	86,778	88,943	117,836	119,381

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 fabric, steel products,
Apparent U.S. consumption, by product and grade of steel, 1986-1990

(Short tons)

Item	1986	1987	1988	1989	1990
All grades of steel:					
Semifinished	3,510,686	3,808,668	4,711,207	3,657,244	3,698,606
Plate	4,952,031	5,518,075	9,081,431	8,099,535	9,054,894
Sheet and strip	48,264,325	50,607,166	50,637,823	49,298,688	48,783,832
Bars & certain shapes 1/	13,566,286	14,813,003	15,793,244	15,607,402	15,569,716
Wire rod	4,820,704	5,299,307	5,531,902	5,343,912	5,141,699
Wire	1,357,521	1,329,375	2,121,014	2,139,808	1,901,487
Wire products	889,928	930,881	3/	3/	3/
Structural shapes & units	6,635,764	7,172,010	7,285,607	6,818,015	6,517,247
Rails & related products	902,776	744,880	915,880	781,292	741,509
Pipe and tube	5,671,711	6,192,583	7,479,551	6,040,401	6,770,200
Total	90,571,732	96,415,948	103,557,659	97,786,297	98,179,190
Carbon & certain alloy 2/					
steel:					
Semifinished	3,444,430	3,677,060	4,575,171	3,511,955	3,506,097
Plate	4,823,280	5,352,358	8,894,553	7,919,675	8,864,789
Sheet and strip	47,342,969	49,593,209	49,520,590	48,246,263	47,725,878
Bars & certain shapes	13,317,940	14,560,787	15,520,946	15,346,745	15,306,029
Wire rod	4,766,635	5,234,571	5,456,419	5,290,947	5,089,690
Wire	1,318,052	1,287,363	2,075,234	2,096,403	1,863,602
Wire products	889,928	930,881	3/	3/	3/
Structural shapes & units	6,635,764	7,172,010	7,285,607	6,818,015	6,517,247
Rails & related products	902,776	744,880	915,880	781,292	741,509
Pipe and tube	5,599,237	6,133,106	7,393,506	5,963,089	6,695,050
Total	89,041,011	94,686,225	101,637,906	95,972,384	96,309,891
Stainless & alloy tool					
steel:					
Semifinished					
Plate	66,256	131,608	136,035	145,288	167,388
Sheet and strip	128,751	165,718	186,878	179,860	215,227
Bars & certain shapes	921,356	1,013,957	1,117,233	1,052,427	1,055,587
Wire rod	54,067	64,737	168,429	165,636	166,033
Wire	39,468	42,012	75,482	52,964	52,009
Pipe and tube	72,474	86,044	45,780	43,405	37,885
Tool steel (all forms)	98,380	95,973	103,870	77,312	75,150
Total	1,530,718	1,729,725	1,919,751	1,813,913	1,869,301

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:
apparent U.S. consumption, by product and grade of steel, 1986-1990

(Percent)

Item	1986	1987	1988	1989	1990
All grades of steel:					
Semifinished	59.4	60.1	60.4	60.1	63.7
Plate	29.4	28.4	20.6	17.7	17.4
Sheet and strip	17.2	15.6	14.4	13.1	14.1
Bars and certain shapes 1/	10.9	9.2	9.2	8.7	7.2
Wire rod	28.3	27.7	27.0	21.5	19.0
Wire	42.9	41.8	52.5	56.0	57.5
Wire products	71.5	69.8	3/	3/	3/
Structural shapes & units	32.8	30.0	30.0	24.1	15.7
Rails & related products	30.5	33.0	34.9	41.3	47.1
Pipe and tube	52.1	44.8	43.9	40.9	38.2
Total	23.5	21.7	21.1	18.6	18.3
Carbon & certain alloy 2/ steel:					
Semifinished	60.0	60.7	60.8	60.8	65.4
Plate	29.9	29.1	20.9	17.9	17.5
Sheet and strip	17.2	15.6	14.5	13.1	14.1
Bars and certain shapes	10.5	8.8	8.8	8.2	6.8
Wire rod	28.2	27.7	27.0	21.3	18.8
Wire	42.8	41.7	52.6	56.1	57.6
Wire products	71.5	69.8	3/	3/	3/
Structural shapes & units	32.8	30.0	30.0	24.1	15.7
Rails & related products	30.5	33.0	34.9	41.3	47.1
Pipe and tube	52.2	44.8	44.0	40.8	38.0
Total	23.5	21.8	21.2	18.6	18.2
Stainless & alloy tool steel:					
Semifinished	26.6	43.1	45.9	42.8	36.3
Plate	12.7	6.7	8.5	9.8	9.6
Sheet and strip	16.5	12.8	10.6	13.4	14.6
Bars & certain shapes	25.3	24.3	24.2	26.2	26.8
Wire rod	34.2	28.3	25.4	41.0	44.5
Wire	44.4	45.4	45.1	49.1	48.4
Pipe and tube	45.9	44.5	42.7	48.2	62.8
Tool steel (all forms)	45.5	42.3	42.5	49.8	46.9
Total	22.1	19.6	18.7	21.6	22.3

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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	155,112	282,085	274,578	310,503
Austria -----	119,666	138,101	86,486	146,207
Brazil -----	1,152,972	1,476,896	1,391,142	1,479,726
Czechoslovakia -----	29,792	37,301	25,693	7,985
East Germany -----	95,910	92,239	55,867	40,670
EC countries -----	5,866,446	6,276,220	5,676,977	5,541,445
Finland -----	174,889	212,989	216,716	218,907
Hungary -----	27,064	30,094	28,420	31,568
Japan -----	4,384,621	4,343,898	3,695,906	3,101,236
Mexico -----	491,204	488,367	467,605	689,256
Peoples Rep of China -----	51,107	68,840	62,028	58,185
Poland -----	91,936	89,648	72,786	59,850
Romania -----	82,408	102,548	49,451	46,272
Republic of South Africa -----	30,015	1,693	756	1,290
Korea, Republic of -----	1,434,872	1,572,602	1,191,970	1,517,953
Trinidad and Tobago -----	62,575	31,518	48,028	70,160
Venezuela -----	170,571	169,383	173,642	212,853
Yugoslavia -----	15,394	12,751	8,222	23,764
Total-----	14,436,554	15,427,173	13,526,273	13,557,830
Other countries:				
Canada -----	3,809,440	3,430,920	3,218,260	3,140,772
Sweden -----	609,367	575,055	254,507	295,107
Taiwan -----	263,415	252,112	164,019	211,819
Argentina -----	346,494	558,011	227,866	196,273
Turkey -----	407,413	307,985	211,804	143,581
India -----	60,774	100,261	106,110	108,323
New Zealand -----	53,509	88,980	78,564	106,104
Singapore -----	144,538	153,164	78,918	30,849
Indonesia -----	235,573	281,142	69,344	28,197
Philippines -----	1/	6,913	213	19,422
All others -----	571,398	687,348	282,607	114,311
Total-----	6,501,921	6,441,891	4,692,212	4,394,758
Grand total-----	20,938,475	21,869,064	18,218,485	17,952,588

See footnote(s) at end of table.

Table 7.--Steel mill products and certain fabricated steel products: U.S. imports for consumption, by specified sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	70,374	118,494	126,633	121,748
Austria -----	58,007	82,907	67,871	90,019
Brazil -----	328,749	463,632	473,506	435,980
Czechoslovakia -----	7,156	12,019	8,890	2,590
East Germany -----	25,328	31,340	18,908	12,352
EC countries-----	2,412,418	2,981,610	2,945,914	2,752,129
Finland -----	65,035	101,105	91,999	104,734
Hungary -----	6,191	8,600	9,155	8,890
Japan -----	2,189,840	2,562,005	2,426,329	2,093,952
Mexico -----	204,210	240,693	252,029	323,139
Peoples Rep of China -----	23,586	27,574	34,627	33,905
Poland -----	27,141	30,281	26,614	21,186
Romania -----	25,093	36,063	17,374	14,742
Republic of South Africa -----	7,322	1,487	594	1,044
Korea, Republic of -----	633,718	770,065	638,311	726,203
Trinidad and Tobago -----	15,482	8,602	14,695	19,653
Venezuela -----	48,835	53,699	61,681	75,805
Yugoslavia -----	5,404	5,947	3,423	9,623
Total-----	6,153,889	7,536,123	7,218,553	6,847,694
Other countries:				
Canada -----	1,660,699	1,706,602	1,697,641	1,509,728
Sweden -----	301,016	358,878	278,349	254,885
Taiwan -----	118,228	134,663	107,331	135,854
Argentina -----	122,695	221,845	110,210	96,778
Turkey -----	123,568	93,038	65,996	45,013
India -----	22,889	43,769	45,816	52,088
New Zealand -----	22,949	35,995	41,302	42,416
Singapore -----	42,953	50,365	32,735	18,503
Indonesia -----	56,949	81,687	24,760	11,860
Philippines -----	2	2,822	281	7,852
All others-----	185,312	247,117	125,904	69,530
Total-----	2,657,260	2,976,781	2,530,325	2,244,507
Grand total-----	8,811,149	10,512,904	9,748,878	9,092,201

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, 1987-1990

Item	1987	1988	1989	1990
Quantity (Short tons)				

VRA countries:				
Australia -----	155,077	202,683	205,832	180,756
Austria -----	119,666	138,029	86,486	146,205
Brazil -----	671,685	755,083	724,260	666,423
Czechoslovakia -----	29,792	37,301	25,693	7,985
East Germany -----	95,909	92,239	55,867	40,670
EC-----	4,873,868	5,084,148	4,732,130	4,668,534
Finland -----	160,941	209,750	182,165	212,524
Hungary -----	26,495	30,094	28,420	31,568
Japan -----	4,291,332	4,264,692	3,608,721	3,089,983
Mexico -----	429,320	424,451	390,447	460,856
Peoples Rep of China -----	51,093	68,840	62,023	58,174
Poland -----	90,476	89,295	72,493	59,762
Romania -----	82,408	102,548	49,451	46,272
Republic of South Africa -----	7,437	1,693	750	1,290
Korea, Republic of -----	1,407,830	1,515,157	1,125,936	1,517,796
Trinidad and Tobago -----	62,575	28,460	48,028	70,160
Venezuela -----	130,749	119,720	125,160	212,853
Yugoslavia -----	15,394	12,751	8,222	23,764
Total-----	12,702,047	13,176,934	11,532,084	11,495,575
Other countries:				
Canada -----	3,673,795	3,327,082	3,098,487	2,925,468
Sweden -----	267,311	269,005	183,284	218,199
Taiwan -----	263,415	252,112	164,018	211,797
Argentina -----	343,363	535,190	227,011	196,130
Turkey -----	407,413	307,985	211,804	143,581
India -----	60,774	100,261	106,110	108,323
New Zealand -----	25,297	42,766	78,564	106,103
Singapore -----	144,538	153,164	78,918	30,849
Indonesia -----	234,667	276,988	69,344	28,197
Philippines -----	2/	6,913	213	19,422
All others-----	526,857	575,686	270,837	113,731
Total-----	5,947,430	5,847,152	4,488,590	4,101,800
Grand total-----	18,649,477	19,024,086	16,020,674	15,597,375

See footnotes at end of table.

Table 8.--Steel other than semifinished steel: 1/ U.S. imports for consumption, imports as a percent of apparent U.S. consumption, by specified sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Import/consumption ratio (percent)				

VRA countries:				
Australia -----	.2	.2	.2	.2
Austria -----	.1	.1	.1	.2
Brazil -----	.7	.8	.8	.7
Czechoslovakia -----	2/	2/	2/	2/
East Germany -----	.1	.1	.1	2/
EC-----	5.3	5.2	5.1	5.0
Finland -----	.2	.2	.2	.2
Hungary -----	2/	2/	2/	2/
Japan -----	4.7	4.4	3.9	3
Mexico -----	.5	.4	.4	.5
Peoples Rep of China -----	.1	.1	.1	.1
Poland -----	.1	.1	.1	.1
Romania -----	.1	.1	.1	2/
Republic of South Africa -----	2/	2/	2/	2/
Korea, Republic of -----	1.5	1.6	1.2	1.6
Trinidad and Tobago -----	.1	2/	.1	.1
Venezuela -----	.1	.1	.1	.2
Yugoslavia -----	2/	2/	2/	2/
Total-----	13.9	13.5	12.4	12.3
Other countries:				
Canada -----	4.0	3.4	3.3	3.1
Sweden -----	.3	.3	.2	.2
Taiwan -----	.3	.3	.2	.2
Argentina -----	.4	.5	.2	.2
Turkey -----	.4	.3	.2	.2
India -----	.1	.1	.1	.1
New Zealand -----	2/	2/	.1	.1
Singapore -----	.2	.2	.1	2/
Indonesia -----	.3	.3	.1	2/
Philippines -----	2/	2/	2/	2/
All others-----	.6	.6	.3	.1
Total-----	6.5	6.0	4.8	4.4
Grand total-----	20.4	19.5	17.2	16.7

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, 1987-1990

Source	Unadjusted 1991 Ceiling 2/	Quantity (short tons)			
		1987	1988	1989	1990
VRA countries:					
Australia	139,781	35	79,402	68,747	129,746
Austria	3/	0	73	0	2
Brazil	849,870	481,287	721,813	666,882	813,302
Czechoslovakia	3/	0	0	0	0
East Germany	3/	1	0	0	0
EC countries	610,538	992,578	1,192,072	964,866	872,912
Finland	12,853	13,948	3,239	34,551	6,383
Hungary	3/	569	0	0	0
Japan	88,367	93,288	79,206	87,185	11,253
Mexico	271,127	61,884	63,916	77,158	228,399
Peoples Rep of China	3/	13	0	5	12
Poland	3/	1,460	353	293	87
Romania	3/	0	0	0	0
Republic of South Africa	3/	0	0	7	0
Korea, Republic of	272,131	22,578	57,445	66,033	156
Trinidad and Tobago	24,250	27,043	3,445	0	0
Venezuela	69,288	39,822	49,663	48,482	0
Yugoslavia	3/	0	0	0	0
Total	5/	1,734,506	2,250,240	1,994,189	2,062,252
Other countries:					
Canada	5/	135,645	103,838	119,773	215,304
Sweden	5/	342,056	306,050	71,223	76,909
Switzerland	5/	99	0	31	508
Argentina	5/	3,131	22,820	855	143
Peru	3/	0	0	0	47
Taiwan	5/	0	0	0	22
Chile	5/	0	0	0	17
Norway	5/	44,660	64,585	5,877	6
New Zealand	3/	28,212	46,214	0	1
Soviet Union	5/	0	47,078	5,860	0
All others	5/	906	4,154	0	0
Total	5/	554,489	594,739	203,619	292,957
Grand total	5/	2,288,995	2,844,979	2,197,808	2,355,209

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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	35	79,402	68,747	129,746
Austria -----	0	0	0	2
Brazil -----	467,926	720,130	666,882	813,302
Czechoslovakia -----	0	0	0	0
East Germany -----	<u>2/</u>	0	0	0
EC countries-----	985,869	1,181,448	930,852	852,870
Finland -----	13,948	3,239	34,551	6,383
Hungary -----	569	0	0	0
Japan -----	89,683	77,271	86,487	9,574
Mexico -----	61,884	63,916	76,982	228,124
Peoples Rep of China -----	13	0	5	12
Poland -----	1,460	279	0	45
Romania -----	0	0	0	0
Republic of South Africa ----	22,578	0	7	0
Korea, Republic of -----	27,043	57,445	66,033	72
Trinidad and Tobago -----	0	3,058	0	0
Venezuela -----	39,822	49,663	48,482	0
Yugoslavia -----	0	0	0	0
Total-----	1,710,830	2,235,851	1,979,028	2,040,130
Other countries:				
Canada -----	110,445	70,310	83,218	188,925
Sweden -----	334,207	291,559	60,821	64,589
Switzerland -----	99	<u>2/</u>	31	508
Argentina -----	3,131	22,820	855	143
Peru -----	0	0	0	47
Taiwan -----	0	0	0	21
Chile -----	0	0	0	17
Norway -----	44,440	64,585	5,877	6
New Zealand -----	28,212	46,214	0	<u>2/</u>
Soviet Union -----	0	47,078	5,860	0
All others-----	906	4,154	0	0
Total-----	521,440	546,720	156,662	254,256
Grand total-----	2,232,270	2,782,571	2,135,690	2,294,386

See footnote(s) at end of table.

Table 10.--Carbon and certain alloy ^{1/} semifinished steel: U.S. imports for consumption, by specified sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	6	15,165	14,426	26,553
Austria -----	0	0	0	69
Brazil -----	87,231	161,215	166,678	179,191
Czechoslovakia -----	0	0	0	0
East Germany -----	7	0	0	0
EC countries-----	214,900	290,884	244,360	209,194
Finland -----	2,945	770	10,811	1,679
Hungary -----	128	0	0	0
Japan -----	20,477	19,499	24,972	3,965
Mexico -----	11,428	17,342	19,722	50,520
Peoples Rep of China -----	30	0	7	12
Poland -----	342	69	0	17
Romania -----	0	0	0	0
Republic of South Africa -----	3,548	0	18	0
Korea, Republic of -----	4,809	14,573	16,133	44
Trinidad and Tobago -----	0	617	0	0
Venezuela -----	6,708	11,049	10,072	0
Yugoslavia -----	0	0	0	0
Total-----	352,559	531,183	507,199	471,244
Other countries:				
Canada -----	26,940	21,337	27,484	51,160
Sweden -----	76,098	73,544	15,249	13,109
Switzerland -----	140	3	155	544
Argentina -----	1,109	6,147	336	116
Peru -----	0	0	0	44
Taiwan -----	0	0	0	25
Chile -----	0	0	0	7
Norway -----	8,098	14,757	1,288	40
New Zealand -----	6,332	13,489	0	7
Soviet Union -----	0	6,946	843	0
All others-----	242	1,196	0	0
Total-----	118,959	137,419	45,355	65,052
Grand total-----	471,518	668,602	552,554	536,296

^{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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	5,014	5,935	4,634	3,690
Austria -----	9,701	21,426	5,851	2,243
Brazil -----	112,608	171,537	134,769	86,554
Czechoslovakia -----	10,416	16,455	17,274	5,673
East Germany -----	16,091	17,270	10,342	11,859
EC countries -----	445,966	515,974	521,489	654,277
Finland -----	69,486	96,135	108,885	111,410
Hungary -----	13,933	16,146	15,300	16,333
Japan -----	35,903	44,538	45,639	32,833
Mexico -----	12,930	20,867	26,919	42,547
Peoples Rep of China -----	0	26	0	0
Poland -----	30,633	30,860	28,960	26,695
Romania -----	49,274	68,325	35,438	31,650
Republic of South Africa -----	465	0	0	0
Korea, Republic of -----	64,323	68,405	46,109	36,677
Trinidad and Tobago -----	0	389	2,204	0
Venezuela -----	6,872	6,653	10,033	13,467
Yugoslavia -----	0	1,423	0	10,371
Total-----	883,615	1,102,364	1,013,846	1,086,279
Other countries:				
Canada -----	449,135	419,556	266,881	271,734
Sweden -----	106,253	110,743	78,601	118,078
India -----	35,711	34,780	53,828	62,315
New Zealand -----	0	3,849	5,544	10,818
Argentina -----	17,499	44,564	233	2,817
Gabon -----	0	0	0	17
Antigua -----	7	0	0	12
Mauritius -----	228	2,342	0	0
Zimbabwe -----	2,038	0	0	0
All others -----	61,090	138,891	461	0
Total-----	671,961	754,725	405,548	465,791
Grand total-----	1,555,576	1,857,089	1,419,394	1,552,070

See footnote(s) at end of table.

Table 11.--Carbon and certain alloy ^{1/} steel plate: U.S. imports for consumption, by specified sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	2,285	3,190	2,371	1,566
Austria -----	3,379	8,467	2,465	947
Brazil -----	36,299	67,413	44,586	30,212
Czechoslovakia -----	2,292	5,280	5,498	1,595
East Germany -----	3,761	5,566	3,312	3,431
EC countries -----	146,741	219,700	215,157	241,057
Finland -----	18,573	38,528	39,347	39,135
Hungary -----	3,104	4,494	4,847	4,597
Japan -----	19,324	27,120	27,889	22,038
Mexico -----	3,340	8,122	10,816	14,222
Peoples Rep of China -----	0	28	0	0
Poland -----	7,316	9,971	9,915	8,134
Romania -----	13,447	22,680	11,827	9,354
Republic of South Africa -----	145	0	0	0
Korea, Republic of -----	21,560	28,496	17,725	11,850
Trinidad and Tobago -----	0	122	630	0
Venezuela -----	1,762	2,062	3,172	3,309
Yugoslavia -----	0	461	0	3,654
Total-----	283,328	451,700	399,557	395,101
Other countries:				
Canada -----	155,991	175,573	109,513	97,947
Sweden -----	40,807	52,247	39,192	51,528
India -----	13,055	14,024	17,706	20,630
New Zealand -----	0	1,350	1,671	2,725
Argentina -----	4,317	14,038	81	678
Gabon -----	0	0	0	11
Antigua -----	11	0	0	17
Mauritius -----	151	636	0	0
Zimbabwe -----	681	0	0	0
All others -----	17,440	42,100	220	0
Total-----	232,453	299,968	168,383	173,536
Grand total-----	515,781	751,668	567,940	568,637

^{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 12.--Carbon and certain alloy 1/ steel sheet and strip: U.S. imports for consumption, by specified sources, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	123,054	169,338	173,844	150,452
Austria -----	82,055	80,141	44,936	96,064
Brazil -----	343,715	279,788	374,903	274,960
Czechoslovakia -----	2,410	0	10	0
East Germany -----	61,012	50,830	26,330	15,024
EC countries -----	2,302,647	2,249,090	1,968,270	2,085,036
Finland -----	71,070	85,164	56,876	78,656
Hungary -----	9,600	13,211	11,903	15,187
Japan -----	2,381,393	2,209,538	2,050,376	1,833,821
Mexico -----	127,973	139,529	117,694	129,930
Peoples Rep of China -----	584	0	456	84
Poland -----	13,390	11,005	0	0
Romania -----	3,665	6,731	52	0
Republic of South Africa -----	372	0	0	0
Korea, Republic of -----	603,796	487,380	375,727	850,043
Trinidad and Tobago -----	0	63	0	532
Venezuela -----	56,293	57,246	59,756	82,810
Yugoslavia -----	0	0	32	917
Total-----	6,183,029	5,839,054	5,261,165	5,613,516
Other countries:				
Canada -----	1,119,490	856,040	858,289	807,843
Taiwan -----	60,024	78,901	48,988	94,953
New Zealand -----	10,795	29,118	61,556	92,303
Argentina -----	175,619	243,388	27,348	48,399
Sweden -----	61,509	51,007	21,448	32,381
Norway -----	15,629	14,466	20,341	14,291
Philippines -----	0	2,538	0	6,561
Switzerland -----	110	54	46	632
Antigua -----	129	104	0	451
Colombia -----	0	0	0	381
All others-----	120,260	70,710	3,664	448
Total-----	1,563,565	1,346,326	1,041,680	1,098,643
Grand total-----	7,746,594	7,185,380	6,302,845	6,712,159

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, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	59,001	90,392	96,817	80,384
Austria -----	26,289	31,089	18,681	34,421
Brazil -----	119,782	111,040	149,482	95,336
Czechoslovakia -----	644	0	3	0
East Germany -----	17,087	18,100	9,790	5,395
EC countries-----	932,354	1,045,288	951,315	919,785
Finland -----	25,253	32,525	22,393	26,096
Hungary -----	2,371	3,751	3,739	4,208
Japan -----	1,208,940	1,211,321	1,198,546	1,065,285
Mexico -----	60,338	77,632	69,852	76,165
Peoples Rep of China -----	114	0	211	137
Poland -----	5,198	5,049	0	0
Romania -----	1,246	2,176	36	0
Republic of South Africa -----	124	0	0	0
Korea, Republic of -----	234,228	209,663	163,713	318,809
Trinidad and Tobago -----	0	19	0	252
Venezuela -----	18,728	22,121	26,436	30,280
Yugoslavia -----	0	0	17	540
Total-----	2,711,697	2,860,166	2,711,031	2,657,093
Other countries:				
Canada -----	463,992	381,804	403,293	358,257
Taiwan -----	22,313	31,494	22,887	47,025
New Zealand -----	5,600	11,315	27,435	36,404
Argentina -----	64,208	92,033	14,390	19,554
Sweden -----	37,494	39,376	28,193	30,770
Norway -----	7,955	7,909	12,185	8,452
Philippines -----	0	985	0	2,334
Switzerland -----	175	67	80	688
Antigua -----	138	159	0	261
Colombia -----	0	0	0	222
All others-----	42,751	27,947	2,195	347
Total-----	644,626	593,089	510,658	504,314
Grand total-----	3,356,323	3,453,255	3,221,689	3,161,407

^{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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	117	826	1,433	996
Austria -----	394	693	541	355
Brazil -----	50,090	96,561	50,035	84,587
Czechoslovakia -----	0	0	0	0
East Germany -----	2	0	0	0
EC countries-----	239,605	260,337	323,125	304,883
Finland -----	2,752	4,081	4,080	2,795
Hungary -----	43	146	0	0
Japan -----	154,408	107,959	131,880	92,407
Mexico -----	31,521	22,813	16,066	13,193
Peoples Rep of China -----	4,820	3,441	3,916	5,516
Poland -----	1,037	1,282	2,648	2,212
Romania -----	122	29	0	0
Republic of South Africa -----	221	0	0	0
Korea, Republic of -----	56,173	74,249	62,652	39,102
Trinidad and Tobago -----	18,047	15,404	16,501	31,873
Venezuela -----	13,530	19,962	10,391	32,482
Yugoslavia -----	287	0	0	0
Total-----	573,169	607,783	623,268	610,401
Other countries:				
Canada -----	379,637	429,634	398,631	339,393
Turkey -----	94,882	102,560	109,153	31,970
Argentina -----	18,954	50,982	48,289	22,515
India -----	10,014	11,249	10,492	9,639
Colombia -----	0	0	7	6,748
Sweden -----	7,255	9,099	3,385	4,759
Indonesia -----	44,957	54,015	3,133	4,500
Malaysia -----	29,495	1,356	1,847	2,300
Singapore -----	39,869	19,311	20,159	1,883
Taiwan -----	44,665	32,265	11,752	445
All others-----	38,271	42,857	34,190	700
Total-----	707,999	753,328	641,038	424,852
Grand total-----	1,281,168	1,361,111	1,264,306	1,035,253

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, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	92	332	669	349
Austria -----	590	667	1,024	876
Brazil -----	15,461	29,058	22,335	32,948
Czechoslovakia -----	0	0	0	0
East Germany -----	1	0	0	0
EC countries-----	165,308	133,388	169,448	156,915
Finland -----	1,685	2,705	3,241	2,847
Hungary -----	14	63	0	0
Japan -----	62,568	49,339	73,081	59,060
Mexico -----	8,595	8,588	5,814	4,441
Peoples Rep of China -----	1,683	1,314	1,526	2,544
Poland -----	548	845	1,517	1,418
Romania -----	600	103	0	0
Republic of South Africa -----	71	0	0	0
Korea, Republic of -----	15,094	20,439	19,087	12,671
Trinidad and Tobago -----	5,496	3,968	5,232	8,785
Venezuela -----	3,187	5,392	3,868	9,546
Yugoslavia -----	73	0	0	0
Total-----	281,066	256,201	306,842	292,400
Other countries:				
Canada -----	146,520	186,448	173,249	146,887
Turkey -----	24,960	28,951	32,827	11,117
Argentina -----	4,865	16,442	18,563	8,873
India -----	3,490	3,952	4,650	4,806
Colombia -----	0	0	11	1,782
Sweden -----	4,732	5,737	3,160	7,100
Indonesia -----	9,076	14,691	862	1,264
Malaysia -----	7,372	550	733	883
Singapore -----	10,128	5,104	7,950	544
Taiwan -----	11,531	10,022	4,724	268
All others-----	8,539	11,139	9,549	615
Total-----	231,213	283,036	256,278	184,139
Grand total-----	512,279	539,237	563,120	476,539

^{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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	9,664	9,551	10,783	9,962
Austria -----	401	601	1,108	0
Brazil -----	50,183	58,383	57,858	70,254
Czechoslovakia -----	10,307	13,661	2,197	0
East Germany -----	12,806	16,306	12,583	11,934
EC countries -----	275,549	290,286	212,925	147,053
Finland -----	2,237	2,237	108	0
Hungary -----	2,862	0	67	0
Japan -----	245,672	276,003	201,891	182,818
Mexico -----	62,826	58,389	32,373	30,162
Peoples Rep of China -----	0	27	25	79
Poland -----	0	7,606	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	432	875	176	18
Trinidad and Tobago -----	43,094	11,312	29,203	36,782
Venezuela -----	4,471	8,916	2,065	16,071
Yugoslavia -----	0	0	0	0
Total-----	720,504	754,153	563,362	505,133
Other countries:				
Canada -----	390,071	360,096	400,938	344,955
Turkey -----	61,072	126,791	75,596	89,832
Sweden -----	10,079	18,464	15,095	8,556
Singapore -----	60,425	81,904	29,776	5,197
Taiwan -----	15,798	16,843	10,071	1,471
Argentina -----	0	0	276	877
New Zealand -----	1,505	0	0	87
Switzerland -----	2/	10	0	3
Israel -----	131	372	0	0
Egypt -----	0	11,114	3,157	0
All others-----	189,134	104,875	30,143	0
Total-----	728,215	720,469	565,052	450,978
Grand total-----	1,448,719	1,474,622	1,128,414	956,111

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, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	1,983	2,103	2,439	2,605
Austria -----	179	248	297	0
Brazil -----	12,145	16,380	16,652	18,309
Czechoslovakia -----	2,164	3,234	549	0
East Germany -----	2,585	3,547	3,014	2,762
EC countries -----	95,990	109,528	82,681	55,449
Finland -----	692	741	35	0
Hungary -----	557	0	30	0
Japan -----	103,044	124,039	96,067	83,354
Mexico -----	14,093	15,344	8,234	8,000
Peoples Rep of China -----	0	9	7	34
Poland -----	0	1,612	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	179	389	112	11
Trinidad and Tobago -----	9,538	3,293	8,770	10,312
Venezuela -----	1,014	2,000	594	3,996
Yugoslavia -----	0	0	0	0
Total-----	244,163	282,467	219,481	184,832
Other countries:				
Canada -----	127,412	130,836	145,073	122,558
Turkey -----	13,673	32,337	20,896	23,185
Sweden -----	6,215	9,831	12,842	7,389
Singapore -----	14,388	21,983	9,390	1,678
Taiwan -----	6,199	6,764	4,247	555
Argentina -----	0	0	137	378
New Zealand -----	310	0	0	15
Switzerland -----	3	41	0	1
Israel -----	30	106	0	0
Egypt -----	0	2,650	920	0
All others-----	40,923	24,794	8,530	0
Total-----	209,153	229,342	202,035	155,759
Grand total-----	453,316	511,809	421,516	340,591

^{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 15.--Carbon and certain alloy $\frac{1}{2}$ steel wire: U.S. imports for consumption, by specified sources, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	4,963	4,488	4,189	4,849
Austria -----	2,484	1,731	1,782	1,612
Brazil -----	10,577	14,128	9,397	8,504
Czechoslovakia -----	0	0	24	0
East Germany -----	89	0	0	0
EC countries -----	174,508	168,480	139,816	115,313
Finland -----	400	476	368	660
Hungary -----	57	0	0	0
Japan -----	96,684	78,468	67,924	63,483
Mexico -----	3,991	2,712	1,407	3,259
Peoples Rep of China -----	7,302	9,720	12,165	8,228
Poland -----	2	116	201	122
Romania -----	0	0	0	0
Republic of South Africa -----	187	0	0	0
Korea, Republic of -----	8,226	7,736	7,512	4,003
Trinidad and Tobago -----	1,435	1,060	0	0
Venezuela -----	7,717	5,996	5,906	6,092
Yugoslavia -----	42	3	0	0
Total-----	318,664	295,114	250,691	216,125
Other countries:				
Canada -----	194,819	193,243	183,779	160,741
Argentina -----	1,170	2,491	11,276	11,209
Taiwan -----	3,217	4,897	3,548	8,060
Sweden -----	7,745	7,532	7,601	7,240
India -----	2,572	4,108	5,266	6,759
Norway -----	2,476	1,312	1,328	996
Chile -----	1,379	2,146	3,630	888
Switzerland -----	1,372	2,591	1,653	679
Indonesia -----	5	22	131	329
Dominican Republic -----	117	139	376	307
All others-----	3,360	6,134	3,705	673
Total-----	218,232	224,615	222,293	197,881
Grand total-----	536,896	519,729	472,984	414,006

See footnote(s) at end of table.

Table 15.--Carbon and certain alloy ^{1/} steel wire: U.S. imports for consumption, by specified sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	2,329	2,018	1,844	2,060
Austria -----	3,613	2,584	2,976	3,178
Brazil -----	4,944	6,207	5,122	4,409
Czechoslovakia -----	0	0	16	0
East Germany -----	24	0	0	0
EC countries-----	129,087	141,210	126,019	109,254
Finland -----	170	231	198	396
Hungary -----	17	0	0	0
Japan -----	64,973	61,637	57,930	56,537
Mexico -----	1,681	1,320	914	1,991
Peoples Rep of China -----	2,868	4,165	5,530	3,797
Poland -----	3	59	129	73
Romania -----	0	0	0	0
Republic of South Africa -----	85	0	0	0
Korea, Republic of -----	4,882	4,667	4,890	3,162
Trinidad and Tobago -----	448	354	0	0
Venezuela -----	3,802	3,096	3,410	3,330
Yugoslavia -----	24	9	0	0
Total-----	218,950	227,557	208,978	188,187
Other countries:				
Canada -----	101,960	109,405	112,002	97,290
Argentina -----	499	1,245	5,051	4,983
Taiwan -----	1,964	2,903	3,186	4,897
Sweden -----	10,304	10,678	9,482	8,990
India -----	883	1,518	1,974	2,752
Norway -----	1,427	1,177	1,095	773
Chile -----	532	946	2,041	524
Switzerland -----	898	1,525	1,062	437
Indonesia -----	2	8	64	150
Dominican Republic -----	44	48	106	32
All others-----	1,348	1,890	1,961	487
Total-----	119,861	131,343	138,024	121,315
Grand total-----	338,811	358,900	347,002	309,502

^{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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	291	5	20	37
Austria -----	1,113	956	4,043	3,158
Brazil -----	10,382	15,018	10,401	12,446
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	54,224	38,365	86,677	78,806
Finland -----	0	1	51	2
Hungary -----	0	0	42	18
Japan -----	50,318	23,536	52,650	59,622
Mexico -----	14,577	13,693	24,461	34,023
Peoples Rep of China -----	36,253	36,866	42,981	42,136
Poland -----	19,213	16,070	15,255	9,780
Romania -----	6,859	143	0	0
Republic of South Africa -----	4,340	1,550	730	0
Korea, Republic of -----	186,794	192,127	178,804	185,686
Trinidad and Tobago -----	0	94	0	295
Venezuela -----	2,683	1,352	16,639	13,415
Yugoslavia -----	7,882	7,314	5,961	5,188
Total-----	394,929	347,090	438,715	444,612
Other countries:				
Canada -----	106,028	98,251	114,763	98,435
Indonesia -----	11,116	18,621	27,489	22,699
Taiwan -----	37,689	13,715	17,331	14,687
Argentina -----	12,069	18,002	16,702	14,584
Turkey -----	37,393	23,631	10,713	12,540
United Arab Emirates -----	7,787	20,059	14,854	10,333
Chile -----	10,919	8,459	8,642	7,333
Thailand -----	20,516	8,627	20,808	6,188
Oman -----	0	0	2,031	5,706
Saudi Arabia -----	305	3,718	8,784	5,230
All others-----	10,627	12,278	22,771	17,977
Total-----	254,449	225,361	264,888	215,712
Grand total-----	649,378	572,451	703,603	660,324

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, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	249	20	37	83
Austria -----	1,973	1,556	8,634	8,029
Brazil -----	4,592	7,169	6,038	6,663
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	39,814	33,725	135,555	146,208
Finland -----	0	96	67	8
Hungary -----	0	0	23	7
Japan -----	46,874	28,992	97,473	108,050
Mexico -----	7,758	8,903	17,781	26,856
Peoples Rep of China -----	17,786	14,640	25,832	24,600
Poland -----	7,056	5,403	5,354	3,967
Romania -----	2,424	44	0	0
Republic of South Africa -----	2,199	792	558	0
Korea, Republic of -----	128,818	138,561	158,567	161,962
Trinidad and Tobago -----	0	27	0	116
Venezuela -----	498	387	5,224	5,173
Yugoslavia -----	2,845	3,027	2,456	2,111
Total-----	262,886	243,342	463,599	493,833
Other countries:				
Canada -----	73,873	70,198	93,747	83,213
Indonesia -----	4,341	6,881	11,595	10,045
Taiwan -----	24,306	12,448	19,677	16,622
Argentina -----	5,105	7,943	8,930	7,665
Turkey -----	12,966	8,700	5,485	6,588
United Arab Emirates -----	2,582	7,562	5,992	5,102
Chile -----	4,662	3,991	4,476	4,202
Thailand -----	10,027	5,332	9,521	3,459
Oman -----	0	0	871	2,509
Saudi Arabia -----	103	1,239	3,255	2,227
All others-----	7,238	9,437	25,782	22,540
Total-----	145,203	133,731	189,331	164,172
Grand total-----	408,089	377,073	652,930	658,005

^{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 $\frac{1}{2}$ steel structural shapes and units: U.S. imports for consumption, by specified sources, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	55	139	312	41
Austria -----	377	1,541	684	274
Brazil -----	11,926	20,210	11,638	6,509
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	92	0
EC countries-----	823,041	903,438	790,065	537,513
Finland -----	341	118	2,669	12
Hungary -----	0	0	0	0
Japan -----	629,977	590,217	373,632	114,932
Mexico -----	17,953	24,912	17,588	36,696
Peoples Rep of China -----	8	208	874	1,477
Poland -----	18,559	14,059	20,441	15,062
Romania -----	0	19	168	113
Republic of South Africa -----	933	143	0	0
Korea, Republic of -----	135,070	169,302	81,616	8,147
Trinidad and Tobago -----	0	0	120	678
Venezuela -----	0	2	112	183
Yugoslavia -----	0	263	0	0
Total-----	1,638,240	1,724,569	1,300,011	721,637
Other countries:				
Canada -----	398,180	338,187	249,815	278,669
Taiwan -----	17,179	9,020	6,899	5,365
Argentina -----	17,757	27,523	30,494	5,353
Singapore -----	6,702	3,129	1,102	3,741
Sweden -----	2,170	3,925	991	1,493
New Zealand -----	9,076	8,242	8,945	1,448
Norway -----	61,316	64,361	31,897	1,121
India -----	258	459	1,743	553
Switzerland -----	131	626	153	489
Israel -----	1,379	218	195	365
All others-----	1,280	8,209	8,118	361
Total-----	515,428	463,899	340,352	298,958
Grand total-----	2,153,668	2,188,468	1,640,363	1,020,595

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, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	54	135	902	107
Austria -----	1,455	1,865	1,780	1,451
Brazil -----	4,099	8,055	5,564	3,255
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	28	0
EC countries-----	271,310	356,905	308,492	208,048
Finland -----	336	248	4,129	38
Hungary -----	0	0	0	0
Japan -----	189,574	228,010	159,837	58,791
Mexico -----	7,074	11,585	8,817	20,750
Peoples Rep of China -----	71	154	669	1,314
Poland -----	3,990	3,587	6,446	4,249
Romania -----	0	11	73	42
Republic of South Africa -----	573	694	0	0
Korea, Republic of -----	59,530	84,018	43,704	6,405
Trinidad and Tobago -----	0	0	63	188
Venezuela -----	0	1	83	120
Yugoslavia -----	0	393	0	0
Total-----	538,066	695,661	540,587	304,758
Other countries:				
Canada -----	220,522	201,529	154,010	152,709
Taiwan -----	9,331	5,476	6,383	4,170
Argentina -----	4,186	7,274	10,137	1,910
Singapore -----	4,293	2,903	1,013	4,822
Sweden -----	7,243	5,413	2,805	3,238
New Zealand -----	9,040	8,814	10,505	1,848
Norway -----	15,052	21,943	10,401	202
India -----	203	371	1,195	466
Switzerland -----	818	1,557	306	1,607
Israel -----	5,483	412	865	427
All others-----	680	3,450	2,723	365
Total-----	276,851	259,142	200,343	171,764
Grand total-----	814,917	954,803	740,930	476,522

^{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 $\frac{1}{2}$ steel rails and related products: U.S. imports for consumption, by specified sources, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	30	2	3,567	3,657
Austria -----	5	703	5,805	6,319
Brazil -----	2,440	4,553	2,942	1,336
Czechoslovakia -----	0	0	0	0
East Germany -----	0	1	0	0
EC countries -----	42,340	52,358	53,518	44,423
Finland -----	2/	3	0	3
Hungary -----	0	4	0	30
Japan -----	84,891	79,347	83,624	87,191
Mexico -----	46	26	380	96
Peoples Rep of China -----	45	25	455	94
Poland -----	0	0	105	0
Romania -----	0	0	0	0
Republic of South Africa -----	879	2/	20	1,290
Korea, Republic of -----	5,803	6,919	6,670	4,025
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	344	77	0	0
Yugoslavia -----	0	0	0	0
Total-----	136,823	144,018	157,086	148,464
Other countries:				
Canada -----	101,439	172,077	151,966	200,252
Sweden -----	7,424	3,064	876	331
Taiwan -----	168	128	417	246
Turkey -----	0	0	22	86
Colombia -----	0	0	77	73
Israel -----	33	0	20	23
Netherlands Antilles -----	0	0	0	20
Chile -----	0	0	48	15
United Arab Emirates -----	0	0	0	15
Switzerland -----	3	0	4	11
All others-----	96	146	12,468	18
Total-----	109,163	175,415	165,898	201,090
Grand total-----	245,986	319,433	322,984	349,554

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, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	15	7	3,841	3,664
Austria -----	37	299	3,284	4,696
Brazil -----	2,016	3,751	2,544	1,128
Czechoslovakia -----	0	0	0	0
East Germany -----	0	5	0	0
EC countries -----	17,563	25,214	28,589	26,170
Finland -----	5	14	0	42
Hungary -----	0	25	0	78
Japan -----	34,066	38,835	46,028	48,194
Mexico -----	14	37	380	163
Peoples Rep of China -----	32	9	221	67
Poland -----	0	0	49	0
Romania -----	0	0	0	0
Republic of South Africa -----	563	1	14	1,044
Korea, Republic of -----	1,863	2,580	3,408	2,141
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	70	24	0	0
Yugoslavia -----	0	0	0	0
Total-----	56,244	70,801	88,358	87,387
Other countries:				
Canada -----	20,479	50,140	59,757	47,317
Sweden -----	2,553	1,001	600	512
Taiwan -----	302	294	797	561
Turkey -----	0	0	13	58
Colombia -----	0	0	258	271
Israel -----	76	0	25	12
Netherlands Antilles -----	0	0	0	29
Chile -----	0	0	25	8
United Arab Emirates -----	0	0	0	10
Switzerland -----	46	0	61	71
All others -----	185	133	2,107	51
Total-----	23,641	51,568	63,643	48,900
Grand total-----	79,885	122,369	152,001	136,287

^{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 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	11,869	12,375	7,022	6,529
Austria -----	19,766	26,408	17,756	32,169
Brazil -----	75,669	87,724	64,098	111,315
Czechoslovakia -----	6,660	7,164	6,156	2,312
East Germany -----	5,909	7,828	6,520	1,850
EC countries -----	416,505	488,108	504,008	573,065
Finland -----	5,968	12,755	6,000	3,187
Hungary -----	0	585	1,109	0
Japan -----	542,452	790,770	507,942	540,343
Mexico -----	137,761	131,349	138,081	140,133
Peoples Rep of China -----	2,056	18,422	973	0
Poland -----	7,267	8,048	4,658	5,603
Romania -----	22,488	27,284	13,778	14,509
Republic of South Africa -----	40	0	0	0
Korea, Republic of -----	331,525	496,059	353,671	374,528
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	38,840	19,510	20,192	48,020
Yugoslavia -----	7,183	3,732	2,226	7,214
Total-----	1,631,958	2,138,121	1,654,190	1,860,777
Other countries:				
Canada -----	514,456	436,372	451,459	400,098
Argentina -----	100,108	148,192	89,608	90,315
Taiwan -----	79,176	88,055	60,719	77,484
Singapore -----	37,408	47,545	27,492	18,962
India -----	10,848	44,486	25,404	18,466
Sweden -----	30,146	26,842	21,424	16,887
Israel -----	13,217	12,714	9,397	13,819
Philippines -----	0	4,361	37	12,650
Thailand -----	93,717	148,259	34,384	11,312
Turkey -----	140,786	32,001	16,107	9,010
All others -----	96,824	122,991	45,323	12,408
Total-----	1,116,686	1,111,818	781,354	681,411
Grand total-----	2,748,644	3,249,939	2,435,544	2,542,188

See footnote(s) at end of table.

Table 19.--Carbon and certain alloy ¹/₂ steel pipe and tube: U.S. imports for
U.S. imports for consumption, by specified sources 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	4,265	4,959	3,151	3,059
Austria -----	11,963	23,494	13,811	20,476
Brazil -----	32,186	41,170	36,362	45,081
Czechoslovakia -----	2,057	3,472	2,779	994
East Germany -----	1,862	4,115	2,763	756
EC countries -----	214,253	346,165	330,377	363,826
Finland -----	1,915	5,624	2,987	1,719
Hungary -----	0	266	517	0
Japan -----	295,849	597,887	378,193	368,363
Mexico -----	57,935	71,872	74,372	72,723
Peoples Rep of China -----	895	7,066	360	0
Poland -----	2,219	3,115	2,105	2,372
Romania -----	7,377	11,018	5,411	5,346
Republic of South Africa -----	15	0	0	0
Korea, Republic of -----	137,101	239,742	176,982	174,638
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	13,066	7,535	8,737	19,623
Yugoslavia -----	2,462	2,036	946	3,154
Total-----	785,420	1,369,536	1,039,853	1,082,130
Other countries:				
Canada -----	254,194	266,692	281,447	243,046
Argentina -----	38,060	76,641	51,423	52,499
Taiwan -----	28,607	39,591	28,827	33,418
Singapore -----	13,763	19,833	13,215	8,288
India -----	4,059	20,173	11,846	7,560
Sweden -----	21,798	23,510	23,653	19,510
Israel -----	4,934	6,218	4,759	6,168
Philippines -----	0	1,767	15	5,150
Thailand -----	32,613	58,119	14,718	4,135
Turkey -----	43,271	14,568	6,678	3,962
All others -----	35,858	52,220	20,466	7,807
Total-----	477,157	579,332	457,047	391,543
Grand total-----	1,262,577	1,948,868	1,496,900	1,473,673

¹/₂ 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 20. Total, carbon and certain 1/ alloy steel products: U.S. imports for consumption, by principal sources, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	155,092	282,061	274,550	309,960
Austria -----	116,298	134,200	82,507	142,198
Brazil -----	1,135,516	1,468,033	1,382,924	1,469,768
Czechoslovakia -----	29,792	37,280	25,660	7,985
East Germany -----	95,910	92,234	55,867	40,668
EC countries-----	5,760,255	6,147,884	5,530,746	5,393,240
Finland -----	166,202	204,209	213,588	203,107
Hungary -----	27,064	30,094	28,420	31,568
Japan -----	4,311,383	4,277,647	3,602,047	3,017,024
Mexico -----	471,462	478,207	451,951	658,164
Peoples Rep of China -----	51,081	68,735	61,850	57,626
Poland -----	91,561	89,325	72,268	59,519
Romania -----	82,408	102,530	49,436	46,272
Republic of South Africa ----	30,015	1,693	756	1,290
Korea, Republic of -----	1,419,183	1,560,497	1,178,972	1,502,300
Trinidad and Tobago -----	62,575	31,380	48,028	70,160
Venezuela -----	170,571	169,376	173,574	212,539
Yugoslavia -----	15,394	12,734	8,219	23,691
Total-----	14,191,762	15,188,119	13,241,363	13,247,079
Other countries:				
Canada -----	3,763,701	3,373,766	3,159,739	3,091,045
Sweden -----	566,885	522,294	212,323	256,295
Taiwan -----	257,931	243,886	159,725	202,732
Argentina -----	346,313	557,969	227,661	196,215
Turkey -----	407,413	307,985	211,804	143,581
New Zealand -----	53,494	88,979	78,564	106,095
India -----	60,231	99,714	104,994	102,637
Singapore -----	144,538	153,163	78,598	29,783
Indonesia -----	235,573	281,142	69,342	28,197
Philippines -----	2/	6,913	213	19,356
All others-----	571,064	686,861	281,803	113,642
Total-----	6,642,716	6,322,672	4,584,766	4,289,578
Grand total-----	20,834,478	21,510,791	17,826,129	17,536,657

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, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	70,279	118,320	126,499	120,429
Austria -----	49,477	70,268	52,952	74,143
Brazil -----	318,756	451,458	455,362	416,532
Czechoslovakia -----	7,156	11,986	8,844	2,590
East Germany -----	25,328	31,334	18,908	12,344
EC countries -----	2,227,322	2,702,007	2,591,992	2,435,907
Finland -----	51,574	81,482	83,209	71,959
Hungary -----	6,191	8,600	9,155	8,890
Japan -----	2,045,689	2,386,680	2,160,017	1,873,636
Mexico -----	172,255	220,745	216,702	275,831
Peoples Rep of China -----	23,479	27,385	34,364	32,505
Poland -----	26,671	29,711	25,514	20,230
Romania -----	25,093	36,033	17,347	14,742
Republic of South Africa -----	7,322	1,487	590	1,044
Korea, Republic of -----	608,066	743,129	604,322	691,693
Trinidad and Tobago -----	15,482	8,400	14,695	19,653
Venezuela -----	48,835	53,667	61,595	75,377
Yugoslavia -----	5,404	5,925	3,419	9,459
Total-----	5,734,379	6,988,617	6,485,486	6,156,964
Other countries:				
Canada -----	1,591,881	1,593,962	1,559,576	1,400,384
Sweden -----	207,367	221,486	141,425	147,237
Taiwan -----	104,597	109,041	90,727	107,541
Argentina -----	122,372	221,780	109,850	96,667
Turkey -----	123,568	93,038	65,996	45,013
New Zealand -----	22,900	35,993	41,302	42,398
India -----	22,038	42,731	42,851	39,598
Singapore -----	42,953	50,360	31,647	15,333
Indonesia -----	56,949	81,687	24,707	11,860
Philippines -----	2	2,822	281	7,660
All others-----	184,490	245,075	122,731	66,807
Total-----	2,479,117	2,697,975	2,231,093	1,980,498
Grand total-----	8,213,496	9,686,592	8,716,579	8,137,462

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

^{2/} Less than 0.5 short tons

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

Table 21.--Stainless semifinished steel: U.S. imports for consumption, by specified sources 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	0	73	0	0
Brazil -----	13,361	1,683	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	6,709	10,624	13,995	20,041
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	3,605	1,935	698	1,679
Mexico -----	0	0	176	275
Peoples Rep of China -----	0	0	0	0
Poland -----	0	74	293	42
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	0	0	0	85
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total -----	23,675	14,389	15,162	22,122
Other countries:				
Canada -----	25,200	33,527	36,556	26,379
Sweden -----	7,849	14,491	10,403	12,320
Taiwan -----	0	0	1/	1/
Israel -----	0	0	1/	0
Total -----	33,049	48,018	46,959	38,699
Grand total -----	56,724	62,407	62,121	60,821

See footnote(s) at end of table.

Table 21.--Stainless semifinished steel: U.S. imports for consumption, by specified sources 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	0	234	0	0
Brazil -----	3,904	542	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	5,984	13,120	12,572	18,089
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	3,581	2,906	1,413	2,134
Mexico -----	0	0	448	656
Peoples Rep of China -----	0	0	0	0
Poland -----	0	102	532	95
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	0	0	0	86
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	13,469	16,904	14,965	21,060
Other countries:				
Canada -----	25,133	52,871	68,918	37,599
Sweden -----	7,692	23,240	23,075	20,774
Taiwan -----	0	0	16	8
Israel -----	0	0	5	0
Hong Kong -----	0	0	2	0
Total-----	32,825	76,111	92,016	58,381
Grand total-----	46,294	93,015	106,981	79,441

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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	96	249	197	126
Brazil -----	36	0	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	5,278	7,364	12,024	9,271
Finland -----	2,369	2,730	1,746	6,444
Hungary -----	0	0	0	0
Japan -----	1,558	2,225	1,542	2,576
Mexico -----	2	0	4	0
Peoples Rep of China -----	0	0	0	0
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	0	125	10	545
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	9,339	12,693	15,523	18,962
Other countries:				
Sweden -----	1,744	2,779	2,014	1,510
Canada -----	34	371	177	178
Anguilla -----	0	5	0	0
Total-----	1,778	3,155	2,191	1,688
Grand total-----	11,117	15,848	17,714	20,650

Table 22.--Stainless steel plate: U.S. imports for consumption, by specified sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	366	953	915	596
Brazil -----	56	0	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	9,256	15,635	35,694	22,315
Finland -----	3,590	6,147	4,883	13,224
Hungary -----	0	0	0	0
Japan -----	2,339	4,514	4,544	5,706
Mexico -----	2	0	3	0
Peoples Rep of China -----	0	0	0	0
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	0	50	24	891
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	15,609	27,299	46,063	42,732
Other countries:				
Sweden -----	3,986	6,775	5,970	4,193
Canada -----	33	889	425	314
Anguilla -----	0	9	0	0
Total-----	4,019	7,673	6,395	4,507
Grand total-----	19,628	34,972	52,458	47,239

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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	9	0
Austria -----	52	29	16	13
Brazil -----	550	313	0	2,239
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	55,204	60,758	63,478	62,089
Finland -----	6,296	6,045	1,376	9,355
Hungary -----	0	0	0	0
Japan -----	25,733	22,393	45,581	40,791
Mexico -----	18,819	8,814	14,968	22,362
Peoples Rep of China -----	21	0	0	0
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa ----	0	0	0	0
Korea, Republic of -----	9,450	7,845	6,875	6,768
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	5	0	0
Yugoslavia -----	0	0	0	20
Total-----	116,125	106,202	132,303	143,637
Other countries:				
Sweden -----	7,493	8,433	5,978	5,529
India -----	341	90	0	2,773
Canada -----	4,892	3,838	2,234	2,370
Singapore -----	0	0	4	28
Switzerland -----	0	0	0	5
Hong Kong -----	41	0	0	0
Taiwan -----	345	0	0	0
Jordan -----	19	0	0	0
All others-----	38	22	0	0
Total-----	13,169	12,383	8,216	10,705
Grand total-----	129,294	118,585	140,519	154,342

Table 23.--Stainless steel sheet and strip: U.S. imports for consumption, by specified sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	0	0	12	0
Austria -----	202	136	79	59
Brazil -----	675	480	0	3,846
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	85,776	122,326	138,830	119,032
Finland -----	9,834	13,459	3,850	19,548
Hungary -----	0	0	0	0
Japan -----	43,684	50,112	95,498	79,396
Mexico -----	30,157	16,454	33,463	41,946
Peoples Rep of China -----	29	0	0	0
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	14,459	17,343	16,561	11,926
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	21	0	0
Yugoslavia -----	0	0	0	32
Total-----	184,816	220,331	288,293	275,785
Other countries:				
Sweden -----	17,785	24,684	21,181	18,300
India -----	492	172	0	5,235
Canada -----	8,019	9,552	7,123	6,291
Singapore -----	0	0	17	124
Switzerland -----	0	0	0	100
Hong Kong -----	59	0	0	0
Taiwan -----	464	0	0	0
Jordan -----	37	0	0	0
All others -----	27	60	0	0
Total-----	26,883	34,468	28,321	30,050
Grand total-----	211,699	254,799	316,614	305,835

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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	4
Austria -----	94	183	200	130
Brazil -----	1,450	3,827	4,497	3,318
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	9,725	12,705	10,400	10,817
Finland -----	0	0	0	1/
Hungary -----	0	0	0	0
Japan -----	19,259	16,715	20,286	17,777
Mexico -----	0	49	18	19
Peoples Rep of China -----	4	2	7	0
Poland -----	0	0	0	0
Romania -----	0	18	15	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	2,582	1,604	3,165	2,610
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	53
Total-----	33,114	35,103	38,588	34,728
Other countries:				
Canada -----	1,269	1,641	1,711	5,374
Sweden -----	3,200	3,708	2,727	3,308
India -----	126	224	214	1,084
Switzerland -----	66	1/	13	15
Argentina -----	111	0	93	14
Taiwan -----	59	49	59	3
Hong Kong -----	0	1/	0	0
Singapore -----	0	0	1/	0
Indonesia -----	0	0	2	0
Bulgaria -----	46	0	0	0
All others-----	0	0	10	0
Total-----	4,877	5,622	4,829	9,798
Grand total-----	37,991	40,725	43,417	44,526

See footnote(s) at end of table.

Table 24.--Stainless steel bars and shapes: U.S. imports for consumption, by specified sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	0	0	0	11
Austria -----	257	412	527	378
Brazil -----	2,503	5,743	10,550	7,704
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	18,326	29,888	30,443	28,981
Finland -----	0	0	0	2
Hungary -----	0	0	0	0
Japan -----	36,707	40,671	63,821	49,418
Mexico -----	0	163	33	39
Peoples Rep of China -----	75	40	32	0
Poland -----	0	0	0	0
Romania -----	0	30	27	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	4,294	3,389	9,017	6,270
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	132
Total-----	62,162	80,336	114,450	92,935
Other countries:				
Canada -----	2,136	3,608	4,540	13,577
Sweden -----	6,180	8,981	8,819	8,921
India -----	199	420	509	2,623
Switzerland -----	129	1	92	65
Argentina -----	201	0	169	28
Taiwan -----	108	162	166	9
Hong Kong -----	0	3	0	0
Singapore -----	0	0	2	0
Indonesia -----	0	0	53	0
Bulgaria -----	70	0	0	0
All others-----	0	0	46	0
Total-----	9,023	13,175	14,396	25,223
Grand total-----	71,185	93,511	128,846	118,158

✓ 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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	0	49	88	0
Brazil -----	874	964	809	1,413
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	7,023	8,877	10,582	10,772
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	5,544	5,483	6,087	5,195
Mexico -----	0	0	0	0
Peoples Rep of China -----	0	0	0	0
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	868	375	336	861
Trinidad and Tobago -----	0	138	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	17	0	0
Total-----	14,309	15,903	17,902	18,241
Other countries:				
Sweden -----	3,955	3,159	3,497	4,621
Canada -----	0	1/	284	168
India -----	0	0	0	97
Taiwan -----	47	148	0	0
Argentina -----	0	0	15	0
Total-----	4,002	3,307	3,796	4,886
Grand total-----	18,311	19,210	21,698	23,127

See footnote(s) at end of table.

Table 25.--Stainless steel wire rod: U.S. imports for consumption, by specified sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	0	68	129	0
Brazil -----	1,224	1,543	1,991	2,774
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	13,628	23,039	30,861	27,607
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	8,927	11,611	16,226	11,460
Mexico -----	0	0	0	0
Peoples Rep of China -----	0	0	0	0
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	1,150	552	796	1,807
Trinidad and Tobago -----	0	202	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	22	0	0
Total-----	24,929	37,037	50,003	43,648
Other countries:				
Sweden -----	6,995	7,916	11,170	11,714
Canada -----	0	2	787	451
India -----	0	0	0	190
Taiwan -----	72	328	0	0
Argentina -----	0	0	26	0
Total-----	7,067	8,246	11,983	12,355
Grand total-----	31,996	45,283	61,986	56,003

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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	1/	1/	1/	1/
Austria -----	37	25	105	1
Brazil -----	188	156	849	446
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	7,384	8,101	7,542	6,443
Finland -----	0	0	7	0
Hungary -----	0	0	0	0
Japan -----	4,254	4,719	4,796	3,393
Mexico -----	0	1	6	0
Peoples Rep of China -----	0	0	0	0
Poland -----	71	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	884	986	759	619
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	3	0	0
Yugoslavia -----	0	0	3	0
Total-----	12,818	13,991	14,067	10,902
Other countries:				
Canada -----	2,043	2,277	2,355	2,404
Sweden -----	2,555	2,685	2,493	2,051
India -----	77	209	896	1,613
Taiwan -----	1,462	1,221	1,099	867
Switzerland -----	47	268	337	284
Thailand -----	0	0	71	175
Chile -----	0	0	0	21
New Zealand -----	15	0	0	9
Singapore -----	0	1/	1/	1/
Israel -----	65	0	0	0
All others-----	0	0	1/	0
Total-----	6,264	6,660	7,251	7,424
Grand total-----	19,082	20,651	21,318	18,326

See footnote(s) at end of table.

ble 26.--Stainless steel wire: U.S. imports for consumption, by specified sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	64	39	81	97
Austria -----	172	117	516	11
Brazil -----	282	304	2,069	959
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	18,881	24,922	28,620	24,110
Finland -----	0	0	58	0
Hungary -----	0	0	0	0
Japan -----	13,957	18,705	20,748	13,471
Mexico -----	0	6	3	0
Peoples Rep of China -----	0	0	0	0
Poland -----	16	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	2,240	3,044	3,042	2,291
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	11	0	0
Yugoslavia -----	0	0	4	0
Total-----	35,612	47,148	55,141	40,939
Other countries:				
Canada -----	6,960	9,650	12,604	11,424
Sweden -----	10,548	12,922	13,952	10,629
India -----	159	414	2,432	3,987
Taiwan -----	3,797	3,824	3,834	2,818
Switzerland -----	170	1,254	1,590	1,318
Thailand -----	0	0	274	617
Chile -----	0	0	0	19
New Zealand -----	49	0	0	18
Singapore -----	0	5	9	6
Israel -----	85	0	0	0
All others -----	0	0	4	0
Total-----	21,768	28,069	34,699	30,836
Grand total-----	57,380	75,217	89,840	71,775

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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	0	23	0	1/
Austria -----	395	756	664	929
Brazil -----	0	0	12	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	4,519	7,081	11,955	14,525
Finland -----	0	1/	0	0
Hungary -----	0	0	0	0
Japan -----	7,208	8,365	9,327	8,787
Mexico -----	781	950	346	597
Peoples Rep of China -----	0	0	4	486
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	1/	0
Korea, Republic of -----	517	392	684	3,470
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	13,420	17,567	22,992	28,794
Other countries:				
Taiwan -----	3,571	6,809	3,135	8,216
Canada -----	5,432	6,925	6,241	5,711
Sweden -----	4,016	5,253	4,208	3,225
Singapore -----	0	0	315	1,038
Thailand -----	0	188	332	152
India -----	0	4	5	66
Hong Kong -----	0	0	0	11
Switzerland -----	2	1	16	6
Argentina -----	0	0	0	1/
Norway -----	1/	0	1/	1/
All others-----	7	4	13	1/
Total-----	13,028	19,184	14,265	18,425
Grand total-----	26,448	36,751	37,257	47,219

See footnote(s) at end of table.

Table 27.--Stainless steel pipe and tube: U.S. imports for consumption, by specified sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	0	135	0	2
Austria -----	1,637	4,157	5,246	6,665
Brazil -----	0	0	54	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	14,687	27,461	45,286	44,642
Finland -----	0	1	0	0
Hungary -----	0	0	0	0
Japan -----	22,587	31,923	52,918	48,830
Mexico -----	1,654	2,891	1,195	2,439
Peoples Rep of China -----	0	0	12	1,293
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	4	0
Korea, Republic of -----	1,412	1,255	2,570	9,796
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	41,977	67,823	107,285	113,667
Other countries:				
Taiwan -----	9,190	21,308	12,587	25,477
Canada -----	17,196	24,048	30,786	29,198
Sweden -----	12,414	22,285	22,758	14,203
Singapore -----	0	0	1,060	3,040
Thailand -----	0	458	874	320
India -----	0	17	20	349
Hong Kong -----	0	0	0	26
Switzerland -----	168	177	212	250
Argentina -----	0	0	0	7
Norway -----	2	0	7	9
All others-----	72	79	49	1
Total-----	39,042	68,372	68,353	72,880
Grand total-----	81,019	136,195	175,638	186,547

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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	19	0	18	537
Austria -----	2,693	2,538	2,709	2,810
Brazil -----	997	1,920	2,052	2,542
Czechoslovakia -----	0	21	33	0
East Germany -----	0	4	0	2
EC countries -----	10,349	12,825	16,254	14,247
Finland -----	22	5	0	0
Hungary -----	0	0	0	0
Japan -----	6,077	4,416	5,543	4,015
Mexico -----	139	346	137	7,839
Peoples Rep of China -----	1/	103	167	74
Poland -----	304	249	225	289
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	1,388	779	1,167	694
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	68	313
Yugoslavia -----	0	0	0	0
Total-----	21,988	23,206	28,373	33,362
Other countries:				
Canada -----	6,868	8,573	8,963	7,142
Sweden -----	11,669	12,254	10,867	6,247
Philippines -----	0	0	0	66
India -----	0	19	1/	54
Argentina -----	70	42	98	42
Israel -----	0	0	1/	0
Malaysia -----	2	0	0	0
Soviet Union -----	0	0	10	0
Taiwan -----	1/	0	0	0
All others -----	1/	1/	1/	0
Total-----	21,988	23,206	28,373	33,362
Grand total-----	26,448	36,751	37,257	47,219

Table 28.--Alloy tool steel (all forms): U.S. imports for consumption, by specified sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	31	0	41	1,209
Austria -----	5,895	6,561	7,507	8,167
Brazil -----	1,349	3,560	3,481	4,166
Czechoslovakia -----	0	33	46	0
East Germany -----	0	6	0	8
EC countries -----	18,558	23,213	31,615	31,445
Finland -----	37	15	0	0
Hungary -----	0	0	0	0
Japan -----	12,370	14,883	11,142	9,901
Mexico -----	142	434	183	2,228
Peoples Rep of China -----	4	149	219	108
Poland -----	454	468	567	861
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	2,097	1,303	1,979	1,442
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	86	428
Yugoslavia -----	0	0	0	0
Total-----	40,937	50,625	56,866	59,963
Other countries:				
Canada -----	9,342	12,019	12,883	10,490
Sweden -----	28,049	30,589	30,000	18,915
Philippines -----	0	0	0	191
India -----	0	16	4	107
Argentina -----	122	65	165	76
Israel -----	0	0	10	0
Malaysia -----	1	0	0	0
Soviet Union -----	0	0	8	0
Taiwan -----	1	0	0	0
All others-----	2	2	1	0
Total-----	40,939	50,627	56,867	59,963
Grand total-----	81,021	136,197	175,639	186,547

✓ 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, 1987-1990

Item	1987	1988	1989	1990
Quantity (short tons)				
VRA countries:				
Australia -----	20	24	28	543
Austria -----	3,368	3,901	3,979	4,009
Brazil -----	17,456	8,863	8,218	9,958
Czechoslovakia -----	0	21	33	0
East Germany -----	0	4	0	2
EC countries -----	106,191	128,336	146,230	148,205
Finland -----	8,687	8,780	3,128	15,800
Hungary -----	0	0	0	0
Japan -----	73,238	66,251	93,860	84,212
Mexico -----	19,741	10,160	15,654	31,092
Peoples Rep of China -----	26	106	178	560
Poland -----	375	323	518	331
Romania -----	0	18	15	0
Republic of South Africa -----	0	0	1/	0
Korea, Republic of -----	15,689	12,105	12,998	15,653
Trinidad and Tobago -----	0	138	0	0
Venezuela -----	0	7	68	313
Yugoslavia -----	0	17	3	73
Total-----	244,791	239,054	284,910	310,751
Other countries:				
Canada -----	45,739	57,153	58,521	49,727
Sweden -----	42,482	52,761	42,184	38,812
Taiwan -----	5,484	8,227	4,294	9,087
India -----	544	546	1,116	5,686
Singapore -----	0	1/	320	1,066
Thailand -----	0	188	403	327
Switzerland -----	116	270	366	310
Philippines -----	0	0	0	66
Argentina -----	181	42	206	58
Chile -----	0	0	0	21
All others-----	233	31	37	20
Total-----	94,779	119,764	107,447	105,180
Grand total-----	339,570	358,818	392,357	415,931

See footnote(s) at end of table.

Table 29.--Total, stainless and alloy tool steel products: U.S. imports for consumption, by principal sources, 1987-1990--Continued

Item	1987	1988	1989	1990
Value (thousand dollars)				
VRA countries:				
Australia -----	95	174	133	1,318
Austria -----	8,529	12,639	14,919	15,877
Brazil -----	9,993	12,173	18,144	19,449
Czechoslovakia -----	0	33	46	0
East Germany -----	0	6	0	8
EC countries-----	185,095	279,603	353,921	316,222
Finland -----	13,461	19,623	8,791	32,775
Hungary -----	0	0	0	0
Japan -----	144,150	175,325	266,312	220,316
Mexico -----	31,955	19,948	35,327	47,307
Peoples Rep of China -----	108	189	263	1,401
Poland -----	470	570	1,099	956
Romania -----	0	30	27	0
Republic of South Africa -----	0	0	4	0
Korea, Republic of -----	25,652	26,936	33,988	34,510
Trinidad and Tobago -----	0	202	0	0
Venezuela -----	0	32	86	428
Yugoslavia -----	0	22	4	164
Total-----	419,508	547,505	733,064	690,731
Other countries:				
Canada -----	68,819	112,639	138,065	109,343
Sweden -----	93,649	137,391	136,924	107,648
Taiwan -----	13,631	25,622	16,604	28,312
India -----	851	1,039	2,965	12,490
Singapore -----	0	5	1,088	3,170
Thailand -----	0	458	1,148	937
Switzerland -----	469	1,434	1,895	1,732
Philippines -----	0	0	0	191
Argentina -----	323	65	360	111
Chile -----	0	0	0	19
All others-----	403	152	183	54
Total-----	178,145	278,805	299,232	264,007
Grand total-----	597,653	826,310	1,032,296	954,738

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, 1987-1990

(Per short ton)

Item	1987	1988	1989	1990
Carbon and certain alloy 1/ steel:				
Semifinished 2/	211	240	259	234
Plate	332	405	400	366
Sheet and strip:				
Hot rolled	308	364	378	328
Cold rolled	449	509	546	498
Galvanized	503	552	587	581
Tin plate	533	567	613	616
Tin free	509	542	574	581
Other coated	528	590	616	643
Average, sheet and strip	433	481	511	471
Bar:				
Hot finished	369	406	454	463
Cold finished	831	598	658	684
Reinforcing	248	262	308	316
Light shapes	315	382	349	336
Average, bar	400	396	445	460
Wire rod	313	347	374	356
Wire	631	691	734	748
Wire products	628	659	928	996
Structural shapes and units:				
Heavy structural	304	376	377	359
Fabricated structurals	898	939	1,129	1,371
Average, structurals	378	436	452	467
Rails and related products:				
Pipe and tube:	325	383	471	390
Oil country tubular goods:				
Line pipe	536	730	743	728
Mechanical pipe	421	529	563	510
Structural pipe	623	675	787	891
Pressure tubing	368	507	563	538
Other (incl. standard)	688	793	1,021	1,093
Average, pipe and tube	415	487	520	503
Average, carbon and certain alloy 1/ steel	459	600	615	580
	399	450	489	464

See footnote end of table.

Table 30.--Steel mill products and certain fabricated steel products: Unit value of U.S. imports for consumption, 1987-1990

Item	(Per short ton)			
	1987	1988	1989	1990
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/	816	1,490	1,722	1,306
Plate	1,766	2,207	2,962	2,288
Sheet and strip:				
Sheet	1,566	2,067	2,084	1,819
Strip	2,555	3,331	3,255	3,088
Average, sheet and strip:	1,637	2,149	2,253	1,982
Bars and shapes	1,874	2,296	2,968	2,654
Wire rod	1,747	2,357	2,857	2,421
Wire	3,007	3,642	4,214	3,916
Pipe and tube	3,063	3,706	4,714	3,951
Alloy tool steel (all forms):	1,932	2,116	2,069	1,913
Average, stainless and alloy steel	1,760	2,306	2,631	2,295

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, 1987-1990

Item	1987	1988	1989	1990
	Quantity (short tons)			
Carbon and certain alloy <u>3/</u> steel:				
Semifinished <u>2/</u>				
Ingots-----	103,967	103,282	25,863	65,400
Blooms and billets-----	426,208	581,907	504,638	488,780
Slabs and sheet bars-----	1,702,095	2,097,383	1,605,189	1,740,209
Total-----	2,232,270	2,782,572	2,135,690	2,294,389
Plate:				
Carbon-----	1,450,898	1,750,917	1,312,364	1,420,427
Alloy-----	104,678	106,172	107,032	131,666
Total-----	1,555,577	1,857,090	1,419,396	1,552,093
Sheet and strip:				
Hot rolled:				
Sheet-----	2,123,804	2,199,268	1,835,755	2,211,426
Strip-----	43,197	49,553	110,452	96,349
Cold rolled:				
Black plate-----	159,779	145,166	144,642	146,079
Electrical-----	64,822	64,684	85,328	76,163
Other sheet-----	2,156,348	2,011,242	1,701,183	1,799,888
Other strip-----	135,227	126,534	112,196	112,905
Galvanized-----	2,306,233	1,948,811	1,625,227	1,649,264
Tin plate-----	332,306	294,552	337,330	313,549
Tin free-----	101,172	97,460	114,902	114,045
Other coated-----	323,709	248,111	235,827	192,491
Total-----	7,746,596	7,185,380	6,302,844	6,712,159
Bar:				
Hot rolled:				
Carbon-----	443,037	476,951	525,944	464,375
Alloy-----	160,811	186,902	238,912	202,466
Cold rolled:				
Carbon-----	152,283	161,345	118,180	91,358
Alloy-----	40,927	52,093	46,608	44,295
Reinforcing-----	351,632	357,253	233,733	147,882
Light structural shapes-----	132,477	126,568	100,927	84,880
Total-----	1,281,168	1,361,113	1,264,305	1,035,255

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, 1987-1990--Continued

Item	1987	1988	1989	1990
	Quantity (short tons)			
Wire rod and related products:				
Wire rod:				
Carbon-----	1,341,257	1,355,951	1,085,797	936,837
Alloy-----	107,463	118,672	42,620	19,276
Wire:				
Carbon-----	504,898	486,699	432,369	375,454
Alloy-----	31,999	33,028	40,615	38,555
Wire products:				
Nails-----	440,746	364,748	384,737	373,685
Barbed wire-----	16,643	15,538	12,440	15,350
Wire fencing-----	13,263	12,052	60,907	46,164
Bale ties-----	1,719	1,849	955	696
Wire strand-----	98,898	88,300	161,751	152,051
Wire rope-----	65,683	77,564	82,812	72,380
Milliners wire-----	12,426	12,400	0	1/
Total-----	2,634,993	2,566,801	2,305,004	2,030,446
Structurals:				
Heavy-----	1,884,684	1,955,762	1,477,782	911,556
Fabricated-----	268,985	232,705	162,579	109,037
Total-----	2,153,669	2,188,467	1,640,361	1,020,593
Rails and related products:				
Rails-----	213,530	260,006	244,236	301,410
Joint bars and tie plates-----	13,969	8,487	14,023	10,205
Track spikes-----	370	205	5,853	2,602
Wheels and axles-----	18,120	50,734	58,873	35,337
Total-----	245,988	319,432	322,985	349,555
Pipes and tubes:				
Oil country tubular goods-----	594,463	1,032,296	429,448	381,022
Line pipe-----	526,047	507,914	526,983	695,930
Mechanical pipe-----	284,807	382,270	281,056	186,242
Structural pipe-----	428,758	278,870	323,918	275,432
Pressure tubing-----	27,122	52,100	44,944	38,044
Other (including standard)-----	887,446	996,487	829,195	965,519
Total-----	2,748,644	3,249,937	2,435,544	2,542,189

See footnotes at end of table.

Table 31.-- Steel mill products and certain fabricated steel products: U.S. impor for consumption of specified products and imports as a percent of major product groupings by specified periods, 1987-1990--Continued

Item	1987	1988	1989	1990
	Quantity (short tons)			

Stainless and alloy tool steel:				
Stainless:				
Semifinished:				
Ingots-----	1,106	3,877	191	273
Blooms and billets-----	48,955	40,772	42,268	41,560
Slabs and sheet bars-----	6,664	17,758	19,663	18,989
Total-----	56,725	62,407	62,121	60,822
Plate-----	11,118	15,847	17,713	20,651
Sheet and strip:				
Sheet:				
Hot rolled-----	5,179	7,331	8,070	6,822
Cold rolled-----	114,806	103,577	112,191	127,779
Strip-----	9,309	7,676	20,258	19,741
Total-----	129,295	118,584	140,519	154,342
Bars and shapes-----	37,991	40,724	43,417	44,526
Wire rod-----	18,311	19,210	21,698	23,128
Wire-----	19,084	20,653	21,319	18,328
Pipe and tube-----	26,448	36,752	37,258	47,220
Alloy tool steel (all forms):				
Semifinished 2/-----	6,880	4,408	3,959	10,869
Bars-----	19,792	28,867	33,488	26,843
Other-----	13,927	10,820	10,866	9,201
Total-----	40,599	44,095	48,313	46,913

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, 1987-1990

Item	1987	1988	1989	1990
Share of product group totals (percent)				
Carbon and certain alloy <u>3</u> / steel:				
Semifinished <u>2</u> / Ingots-----	4.66	3.71	1.21	2.85
Blooms and billets-----	19.09	20.91	23.63	21.30
Slabs and sheet bars-----	76.25	75.38	75.16	75.85
Total-----	100.00	100.00	100.00	100.00
Plate:				
Carbon-----	93.27	94.28	92.46	91.52
Alloy-----	6.73	5.72	7.54	8.48
Total-----	100.00	100.00	100.00	100.00
Sheet and strip:				
Hot rolled:				
Sheet-----	27.42	30.61	29.13	32.95
Strip-----	0.56	0.69	1.75	1.44
Cold rolled:				
Black plate-----	2.06	2.02	2.29	2.18
Electrical-----	0.84	0.90	1.35	1.13
Other sheet-----	27.84	27.99	26.99	26.82
Other strip-----	1.75	1.76	1.78	1.68
Galvanized-----	29.77	27.12	25.79	24.57
Tin plate-----	4.29	4.10	5.35	4.67
Tin free-----	1.31	1.36	1.82	1.70
Other coated-----	4.18	3.45	3.74	2.87
Total-----	100.00	100.00	100.00	100.00
Bar:				
Hot rolled:				
Carbon-----	34.58	35.04	41.60	44.86
Alloy-----	12.55	13.73	18.90	19.56
Cold rolled:				
Carbon-----	11.89	11.85	9.35	8.82
Alloy-----	3.19	3.83	3.69	4.28
Reinforcing-----	27.45	26.25	18.49	14.28
Light structural shapes-----	10.34	9.30	7.98	8.20
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, 1987-1990--Continued

Item	1987	1988	1989	1990
Share of product group totals (percent)				
Wire rod and related products:				
Wire rod:				
Carbon-----	50.90	52.83	47.11	46.14
Alloy-----	4.08	4.62	1.85	0.95
Wire:				
Carbon-----	19.16	18.96	18.76	18.49
Alloy-----	1.21	1.29	1.76	1.90
Wire products:				
Nails-----	16.73	14.21	16.69	18.40
Barbed wire-----	0.63	0.61	0.54	0.77
Wire fencing-----	0.50	0.47	2.64	2.
Bale ties-----	0.07	0.07	0.04	0.05
Wire strand-----	3.75	3.44	7.02	7.49
Wire rope-----	2.49	3.02	3.59	3.56
Milliners wire-----	0.47	0.48	0.00	17
Total-----	100.00	100.00	100.00	100.00
Structurals:				
Heavy-----	87.51	89.37	90.09	89.32
Fabricated-----	12.49	10.63	9.91	10.68
Total-----	100.00	100.00	100.00	100.00
Rails and related products:				
Rails-----	86.80	81.40	75.62	86.23
Joint bars and tie plates-----	5.68	2.66	4.34	2.92
Track spikes-----	0.15	0.06	1.81	0.74
Wheels and axles-----	7.37	15.88	18.23	10.11
Total-----	100.00	100.00	100.00	100.00
Pipes and tubes:				
Oil country tubular goods-----	21.63	31.76	17.63	14.99
Line pipe-----	19.14	15.63	21.64	27.38
Mechanical pipe-----	10.36	11.76	11.54	7.33
Structural pipe-----	15.60	8.58	13.30	10.83
Pressure tubing-----	0.99	1.60	1.85	1.50
Other (including standard)-----	32.29	30.66	34.05	37.98
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, 1987-1990--Continued

Item	1987	1988	1989	1990
Share of product group totals (percent)				

Stainless and alloy tool steel:				
Stainless:				
Semifinished:				
Ingots-----	1.95	6.21	0.31	0.45
Blooms and billets-----	86.30	65.33	68.04	68.33
Slabs and sheet bars-----	11.75	28.45	31.65	31.22
Total-----	100.00	100.00	100.00	100.00
Plate-----	100.00	100.00	100.00	100.00
Sheet and strip:				
Sheet:				
Hot rolled-----	4.01	6.18	5.74	4.42
Cold rolled-----	88.79	87.34	79.84	82.79
Strip-----	7.20	6.47	14.42	12.79
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/} -----	16.95	10.00	8.19	23.17
Bars-----	48.75	65.47	69.31	57.22
Other-----	34.30	24.54	22.49	19.61
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, 1987-1990

(Short tons)

Item	1987	1988	1989	1990
Atlantic Coast	4,673,187	4,743,215	3,510,909	2,904,126
Great Lakes-Canadian border	6,594,724	6,342,613	5,688,226	5,758,953
Gulf Coast-Mexican border	4,930,247	5,938,664	4,561,954	4,603,070
Off-shore	374,262	403,506	371,695	308,790
Pacific Coast	4,366,056	4,491,267	4,085,702	4,377,647
Total	20,938,475	21,869,065	18,218,486	17,952,586

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, 1987-1990

Item	(Short tons)			
	1987	1988	1989	1990
Carbon and certain alloy 1/ steel:				
Semifinished 2/				
Plate	384,562	471,964	323,401	172,652
Sheet and strip	258,880	331,537	216,546	215,847
Bars and certain shapes	1,900,352	1,771,637	1,281,884	1,189,938
Wire rod	222,055	220,708	155,134	102,207
Wire	310,731	297,606	215,013	185,722
Wire products	119,558	108,857	88,009	76,338
Structural shapes and units	266,335	220,011	237,679	211,516
Rails and related products	581,450	602,240	458,130	192,938
Pipe and tube	25,273	36,885	35,669	26,018
Total	4,531,600	4,585,229	3,352,071	2,733,343
Stainless and alloy tool steel:				
Semifinished 2/				
Plate	15,595	24,249	14,669	21,028
Sheet and strip	4,167	6,134	8,900	9,071
Bars and certain shapes	42,918	45,874	47,438	55,716
Wire rod	19,945	22,371	22,418	19,501
Wire	13,117	13,526	16,289	17,513
Pipe and tube	10,357	10,593	11,848	10,169
Tool steel (all forms)	10,147	12,391	14,468	18,163
Total	25,340	22,848	22,807	19,621
Grand Total	4,673,187	4,743,215	3,510,909	2,904,126

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, 1987-1990

(Short tons)

Item	1987	1988	1989	1990
Carbon and certain alloy 1/ steel:				
Semifinished 2/	498,851	414,978	393,604	376,130
Plate	663,496	723,681	551,017	578,160
Sheet and strip	2,630,195	2,396,464	2,145,556	2,380,594
Bars and certain shapes	561,285	625,771	650,140	590,935
Wire rod	565,070	545,070	466,968	387,724
Wire	251,126	253,271	230,319	202,258
Wire products	95,457	83,750	106,485	96,089
Structural shapes and units	566,003	522,423	375,682	399,695
Rails and related products	107,729	179,981	161,932	196,840
Pipe and tube	564,259	488,579	492,836	446,874
Total	6,503,470	6,233,970	5,574,539	5,655,302
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/	27,149	34,966	36,980	26,516
Plate	1,971	3,246	2,652	5,084
Sheet and strip	34,156	33,923	35,682	33,840
Bars and certain shapes	4,170	4,098	4,337	8,597
Wire rod	1,047	661	822	1,064
Wire	4,794	6,053	5,832	4,816
Pipe and tube	6,134	7,833	7,190	7,942
Tool steel (all forms)	11,832	17,864	20,192	15,794
Total	91,254	108,644	113,688	103,651
Grand Total	6,594,724	6,342,613	5,688,226	5,758,953

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, 1987-1990

(Short tons)

Item	1987	1988	1989	1990
Carbon and certain alloy 1/ steel:				
Semifinished 2/	866,421	1,061,770	684,289	608,575
Plate	419,658	567,614	439,139	626,168
Sheet and strip	1,515,043	1,558,244	1,316,891	1,224,313
Bars and certain shapes	131,573	137,056	157,610	124,950
Wire rod	257,709	349,946	220,248	217,475
Wire	76,094	64,524	61,675	53,333
Wire products	107,410	105,823	138,125	175,874
Structural shapes and units	473,758	493,074	323,672	197,391
Rails and related products	61,358	64,016	81,408	55,424
Pipe and tube	959,115	1,493,874	1,070,870	1,229,715
Total	4,868,139	5,895,942	4,493,927	4,513,218
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/	13,974	3,131	10,462	13,275
Plate	2,714	3,233	4,000	3,456
Sheet and strip	29,042	16,038	30,331	38,277
Bars and certain shapes	5,951	6,668	7,646	8,266
Wire rod	1,117	1,220	1,735	1,824
Wire	1,350	606	1,144	2,162
Pipe and tube	6,665	10,896	11,123	12,488
Tool steel (all forms)	1,295	730	1,565	10,104
Total	62,108	42,523	68,027	89,852
Grand Total	4,930,247	5,938,464	4,561,954	4,603,070

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, 1987-1990

Item	(Short tons)			
	1987	1988	1989	1990
Carbon and certain alloy 1/				
Steel:				
Semifinished 2/	0	3/	0	3/
Plate	6,693	13,906	7,984	6,085
Sheet and strip	90,238	72,445	77,155	99,978
Bars and certain shapes	164,360	157,820	169,928	115,415
Wire rod	11,940	16,953	5,174	15,574
Wire	11,147	14,739	11,407	12,654
Wire products	7,285	10,190	6,070	8,213
Structural shapes and units	22,499	21,786	28,269	12,233
Rails and related products	445	88	333	624
Pipe and tube	58,545	93,829	64,215	37,894
Total	373,151	401,758	370,534	308,669
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/	0	0	0	0
Plate	0	3/	1	0
Sheet and strip	1	0	36	20
Bars and certain shapes	0	15	3/	10
Wire rod	0	0	0	0
Wire	1,074	1,690	810	64
Pipe and tube	36	42	18	8
Tool steel (all forms)	0	0	295	19
Total	1,111	1,748	1,161	120
Grand Total	374,262	403,506	371,695	308,790

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, 1987-1990

(Short tons)

Item	1987	1988	1989	1990
Carbon and certain alloy 1/ steel:				
Semifinished 2/				
Plate	482,436	833,859	734,396	1,137,032
Sheet and strip	206,851	220,352	204,710	125,811
Bars and certain shapes	1,610,768	1,386,590	1,481,358	1,817,335
Wire rod	201,894	219,758	131,492	101,747
Wire	303,270	265,098	221,015	149,617
Wire products	78,972	78,336	81,573	69,425
Structural shapes and units	172,890	152,677	215,243	168,632
Rails and related products	509,959	548,943	454,608	218,336
Pipe and tube	51,183	38,461	43,644	70,650
Total	704,321	642,871	467,017	467,540
Total	4,322,545	4,393,893	4,035,056	4,326,124
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/				
Plate	7	61	10	3
Sheet and strip	2,266	3,233	2,159	3,039
Bars and certain shapes	23,178	22,749	27,032	26,489
Wire rod	7,925	7,573	9,015	8,152
Wire	3,030	3,803	2,852	2,728
Pipe and tube	1,508	1,711	1,685	1,117
Tool steel (all forms)	3,465	5,590	4,459	8,619
Total	2,132	2,653	3,433	1,376
Total	43,511	47,373	50,646	51,523
Grand Total	4,366,056	4,441,267	4,085,702	4,377,647

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

ONE HUNDRED FIRST CONGRESS

DAN ROSTENKOWSKI, ILLINOIS, CHAIRMAN

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CHARLES B. RANGEL, NEW YORK	PHILIP M. CRANE, ILLINOIS
FORTNEY PETE STARK, CALIFORNIA	BILL FRENZEL, MINNESOTA
ANDY JACOBS, JR., INDIANA	DICK SCHULZE, PENNSYLVANIA
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BYRON L. DORGAN, NORTH DAKOTA	
BARBARA B. KENNELLY, CONNECTICUT	
BRIAN J. DONNELLY, MASSACHUSETTS	
WILLIAM J. COYNE, PENNSYLVANIA	
MICHAEL A. ANDREWS, TEXAS	
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JIM MOODY, WISCONSIN	
BENJAMIN L. CARDIN, MARYLAND	

COMMITTEE ON WAYS AND MEANS

U.S. HOUSE OF REPRESENTATIVES
WASHINGTON, DC 20515

OFFICE OF THE CLERK
90 DEC 6 11:07 AM '89

November 27, 1989

ROBERT J. LEONARD, CHIEF COUNSEL AND STAFF DIRECTOR
PHILLIP D. MOSELEY, MINORITY CHIEF OF STAFF

SOCKET NUMBER
1541
Office of the Secretary Int'l Trade Commission

The Honorable Anne Brunsdale
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
Dan Rostenkowski
Chairman

SECRETARY
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BOOKLET/OSTIC

DR/jn

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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

ONE HUNDRED FIRST CONGRESS

DAN ROSTENKOWSKI, ILLINOIS, CHAIRMAN

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COMMITTEE ON WAYS AND MEANS

U.S. HOUSE OF REPRESENTATIVES
WASHINGTON, DC 20515

November 7, 1990

ROBERT J. LEONARD, CHIEF COUNSEL AND STAFF DIRECTOR

PHILIP D. MOSELEY, MINORITY CHIEF OF STAFF

The Honorable Anne Brunsdale
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

C-1

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. 90-197 Filed 1-3-90; 8:45 am]
BILLING CODE 7030-02-01

[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 F.R. 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. 90-203 Filed 1-3-90; 8:45 am]
BILLING CODE 7030-02-01

[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 conditional 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 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, 1986 (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. 90-195 Filed 1-3-90; 8:45 am]
BILLING CODE 7030-02-01

[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 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 Brundsdale and Vice Chairman Case 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. Blydes, 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. 38025S, *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:

Continuous 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 metallic 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, 7221.00.0040 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 cm³ 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, 7304.20.2000, 7304.20.3000, 7304.20.4000, 7304.20.5010, 7304.20.5050, 7304.20.6010, 7304.20.6050, 7304.20.7000, 7304.20.8000, 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, 7304.10.1050, 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, 7304.39.0050, 7304.39.0075, 7304.51.0000, 7304.51.5090, 7304.59.1000, 7304.59.6000, 7304.59.8000, 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, 7304.39.0005, 7304.51.5030, 7304.51.5050, 7304.59.2030, 7304.59.2050, 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, 7304.39.0025, 7304.39.0030, 7304.39.0040, 7304.39.0060, 7304.39.0070, 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

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

A U S T R A L I A

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

Categories	Apparent Consumption Forecast for 1991 (1,000s)*	Arrangement I.P.	Unadjusted 1991 Ceiling	Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment	Adjusted 1991 Export Ceiling
Semi-Finished Steel	80,334	0.174%	139,781	+++	+++	139,781
Coated Flat Rolled	13,896	1.063%	147,714	+++	+++	147,714
Other Flat Rolled	32,010	0.169%	54,097	+++	+++	54,097
Pipe and Tube	6,306	0.436%	27,494	+++	+++	27,494
Other Finished Steel	25,356	0.102%	25,863	+++	+++	25,863

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

+++ Not yet available

STRIA
 February 1991 Forecast of 1991 U.S. Apparent Consumption of
 Arrangement Products Subject to Export Licensing
 (Metric Tons)

Categories	Apparent Consumption Forecast for 1991 (1,000s)	Arrangement I.P.	Unadjusted 1991 Ceiling*	Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment	Adjusted 1991 Export Ceiling
Flat Rolled Products	45,906	0.30%	137,718	+++	+++	137,718
Stainless Bar	n/a	+++	250	+++	+++	250
Stainless Rod	n/a	+++	250	+++	+++	250
OCTG	1,714	1.40%	23,996	+++	+++	23,996
Other Pipe and Tube	4,592	0.30%	13,776	+++	+++	13,776
Other Steel Products	27,864	0.11%	30,650	+++	+++	30,650
Alloy Tool Steel	75	4.00%	3,000	+++	+++	3,000

* 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

December 1990 Forecast of 1991 U.S. Apparent Consumption of
Arrangement Products Subject to Export Licensing
(Metric Tons)

Categories	Apparent Consumption Forecast for 1991 (1,000s)*	Arrangement I.P.	Unadjusted 1991 Ceiling	Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment	Adjusted 1991 Export Ceiling
Semi-Finished Products	80,404	1.057%	849,870	+++	+++	849,870
Billets	n/a	***	173,409	+++	n/a	173,409
Plate	4,807	1.444%	69,413	+++	+++	69,413
Hot Rolled Sheet and Strip	13,988	1.226%	171,493	+++	+++	171,493
Cold Rolled Sheet and Strip	12,707	1.173%	149,053	+++	+++	149,053
Cold Rolled Strip	480	3.318%	15,926	+++	+++	15,926
Other Sheet and Strip	14,550	0.188%	27,354	+++	+++	27,354
Tin Plate	2,548	0.168%	4,281	+++	+++	4,281
Electrical Sheet and Strip	432	0.209%	903	+++	+++	903
Electrogalvanized Sheet	2,319	0.100%	2,319	+++	+++	2,319
C/A Hot Finished Bar	10,173	1.284%	130,621	+++	+++	130,621
C/A Cold Finished Bar	1,228	0.934%	11,470	+++	+++	11,470
C/A Wire Rod	4,674	1.953%	91,283	+++	+++	91
Angles, Shapes, Sections	6,746	0.450%	30,357	+++	+++	30
Structurals	5,216	0.185%	9,650	+++	+++	9,650
Rail Products	246	3.245%	7,983	+++	+++	7,983
Wire and Wire Products	1,502	2.010%	30,190	+++	+++	30,190
Wire Strand	n/a	***	5,534	+++	n/a	5,534
Wire Rope	165	0.676%	1,115	+++	+++	1,115
Rails	528	0.000%	0	+++	+++	0
OCTG	n/a	***	2,000	+++	n/a	2,000
Line Pipe	1,649	4.724%	77,899	+++	+++	77,899
Other Pipe and Tubes	2,972	2.192%	65,146	+++	+++	65,146
Standard Pipe	1,641	3.408%	55,925	+++	+++	55,925
Structural Pipe	384	1.218%	4,677	+++	+++	4,677
Mechanical Pipe	798	0.865%	6,903	+++	+++	6,903
Stainless and Pressure Pipe	144	1.261%	1,816	+++	+++	1,816
Specialty Products	292	3.088%	9,017	+++	+++	9,017
Stainless Bar	138	2.848%	3,930	+++	+++	3,930
Stainless Wire Rod and Wire	78	3.704%	2,889	+++	+++	2,889
Alloy Tool Steel	76	2.712%	2,061	+++	+++	2,061

*** Export ceilings are fixed tonnages.

+++ Not yet available

n/a Not Applicable

EUROPEAN COMMUNITIES

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

Categories	Apparent Consumption Forecast for 1991 (1,000s)*	Arrangement I.P.	Unadjusted 1991 Ceiling	Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment	Adjusted 1991 Export Ceiling
Semi-Finished Products	80,334	0.76%	610,538	+++	+++	610,538
Slab	n/a	***	561,695	+++	n/a	561,695
Plate	4,676	7.13%	333,399	+++	+++	333,399
Hot Rolled Sheet	14,135	7.29%	1,030,442	+++	+++	1,030,442
Cold Rolled Sheet	10,883	5.94%	646,450	+++	+++	646,450
Black Plate	358	12.84%	45,967	+++	+++	45,967
Cold Rolled Strip	466	5.34%	24,884	+++	+++	24,884
Electrical Sheet and Strip	438	4.98%	21,812	+++	+++	21,812
Stainless Plate	94	5.89%	5,537	+++	+++	5,537
Stainless Sheet and Strip	960	5.94%	57,024	+++	+++	57,024
Tin Plate	2,573	2.96%	76,161	+++	+++	76,161
Tin-Free Steel	806	4.22%	34,013	+++	+++	34,013
Other Coated Flat Rolled Products	10,517	4.51%	474,317	+++	+++	474,317
Electrogalvanized	n/a	***	118,579	+++	n/a	118,579
Rebar	4,508	0.09%	4,057	+++	+++	4,057
Hot Finished Bar	5,799	3.09%	179,189	+++	+++	179,189
Cold Finished Bar	1,242	6.63%	82,345	+++	+++	82,345
Stainless Bar	138	7.40%	10,212	+++	+++	10,212
Carbon Wire Rod	4,607	5.70%	262,599	+++	+++	262,599
Stainless Wire Rod	45	13.16%	5,922	+++	+++	5,922
Alloy Wire Rod	132	19.68%	25,978	+++	+++	25,978
Bar Shapes Under 80mm	1,285	2.48%	31,868	+++	+++	31,868
Structurals	4,927	14.15%	697,189	+++	+++	697,189
Sheet Piling	288	23.70%	68,225	+++	+++	68,225
Fabricated Structurals	n/a	****	16,546	+++	n/a	16,546
Stainless Wire	31	15.34%	4,755	+++	+++	4,755
Wire Strand	n/a	****	49,800	+++	n/a	49,800
Wire Rope	n/a	****	9,800	+++	n/a	9,800
Carbon/Alloy Wire	n/a	****	182,600	+++	n/a	182,600
Wire Products	n/a	****	25,500	+++	n/a	25,500
Rails	531	9.26%	49,171	+++	+++	49,171
Rail Products	n/a	****	3,900	+++	n/a	3,900
Total Pipe and Tube	6,306	8.82%	556,189	+++	+++	556,189
OCTG	1,714	9.00%	154,260	+++	+++	154,260
Alloy Tool Steel	75	11.02%	8,265	+++	+++	8,265
Other Specialty Steel	n/a	****	12,100	+++	n/a	12,100

* 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.

+++ Not yet available

n/a Not Applicable

FINLAND

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

Categories	Apparent Consumption Forecast for 1991 (1,000s)*	Arrangement I.P.	Unadjusted 1991 Ceiling	Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment	Adjusted 1991 Export Ceiling
Semi-Finished	80,334	0.016%	12,853	6,000	+++	18,853
Carbon/Alloy Flat Rolled	30,956	0.442%	136,826	4,500	+++	141,326
Cold Rolled Sheet	11,241	0.114%	12,815	+++	+++	12,815
Cold Rolled Strip	466	0.457%	2,130	+++	+++	2,130
Stainless Flat Rolled	1,054	0.978%	10,308	+++	+++	10,308
Coated Flat Rolled	13,896	0.130%	18,065	+++	+++	18,065
Galvanized Sheet	9,258	0.130%	12,035	+++	+++	12,035
Bar and Rod	16,471	0.037%	6,094	1,500	+++	7,594
Carbon Cold Finished Bar	1,015	0.010%	102	+++	+++	102
Wire and Wire Products	1,535	0.024%	368	+++	+++	368
Pipe and Tube	6,306	0.140%	8,828	+++	+++	8,828
OCTG	1,714	0.200%	3,428	+++	+++	3,428
Other Steel Products	7,350	0.012%	882	+++	+++	882

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

+++ Not yet available

P A N

February 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)**	Arrangement I.P.	Unadjusted Final Period Ceiling	Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment	Adjusted Final Period Export Ceiling
Semi-Finished Steel	100,418	0.088%	88,367	+++	+++	88,367
Plate	5,963	1.050%	62,606	+++	+++	62,606
Sheet and Strip	51,420	6.090%	3,131,478	+++	+++	3,131,478
Cold Rolled Sheet and Strip	14,634	4.870%	712,664	+++	+++	712,664
Coated Sheet and Strip	13,146	12.500%	1,643,281	+++	+++	1,643,281
Electroalvanized	2,779	16.820%	467,386	+++	+++	467,386
Electrical Sheet and Strip	548	7.090%	38,818	+++	+++	38,818
Tin Plate	3,216	6.150%	197,799	+++	+++	197,799
Tin-Free Steel	1,008	7.030%	70,827	+++	+++	70,827
Bar	14,436	0.640%	92,392	+++	+++	92,392
Cold Finished	1,553	2.130%	33,068	+++	+++	33,068
Stainless Bar	173	10.470%	18,061	+++	+++	18,061
Wire Rod and Wire Products	7,843	6.400%	501,920	+++	+++	501,920
Carbon/Alloy Wire Rod	5,924	6.300%	373,196	+++	+++	373,196
Stainless Rod	56	10.440%	5,873	+++	+++	5,873
Structural Shapes	9,094	7.550%	686,578	+++	+++	686,578
Rail and Rail Products	1,025	10.150%	104,038	+++	+++	104,038
Fabricated Structural	n/a	+++	63,066	+++	n/a	63,066
Welded H-Beams	n/a	+++	37,500	+++	n/a	37,500
Pipe and Tube	7,883	9.190%	724,402	+++	+++	724,402
OCTG	2,143	9.660%	206,966	+++	+++	206,966
Line Pipe	2,063	16.480%	339,900	+++	+++	339,900
Structural Pipe	466	12.760%	59,494	+++	+++	59,494
Alloy Tool Steel	94	5.890%	5,522	+++	+++	5,522

Final Period Apparent Consumption is defined as 1.25 * Forecasted 1991 Apparent Consumption.

* 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

February 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)#*	Arrangement I.P.	Unadjusted Final Period Ceiling	Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment	Adjusted Final Period Export Ceiling
Semi-Finished Steel	100,418	0.271%	272,131	+++	+++	272,131
Plate	5,845	1.170%	68,387	+++	+++	68,387
Sheet and Strip	50,220	2.380%	1,195,236	+++	+++	1,195,236
HR S & S	17,669	3.160%	558,333	+++	+++	558,333
CR S & S	14,634	2.520%	368,771	+++	+++	368,771
C/A Strip	n/a	+++	1,500	+++	n/a	1,500
Coated	13,146	1.800%	236,633	+++	+++	236,633
Electro-Galv	n/a	+++	33,750	+++	n/a	33,750
Electrical	n/a	+++	1,500	+++	n/a	1,500
Stainless Flat-Rolled	1,318	0.940%	12,385	+++	+++	12,385
Bar	14,436	0.640%	92,392	+++	+++	92,392
Stainless Bar	173	1.600%	2,760	+++	+++	2,760
Wire, Wire Rod & Wire Prod.	7,843	2.430%	190,573	+++	+++	190,573
Stainless Wire	n/a	+++	1,125	+++	n/a	1,125
C/A Wire	n/a	+++	10,625	+++	n/a	10,625
Stainless Rod	56	1.980%	1,114	+++	+++	1,114
Structurals	9,094	1.380%	125,494	+++	+++	125,494
Rails	664	0.650%	4,314	+++	+++	4,314
Fab. Structural	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	7,883	7.900%	622,718	+++	+++	622,718
Structural	466	4.430%	20,655	+++	+++	20,655
OCTG	2,143	2.900%	62,133	+++	+++	62,133
Standard	2,026	17.930%	363,307	+++	+++	363,307
Alloy Tool Steel	94	2.160%	2,025	+++	+++	2,025

Final Period Apparent Consumption is defined as 1.25 * Forecasted 1991 Apparent Consumption.

* 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

MEXICO

February 1991 Forecast of 1991 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)#* ^a	Arrangement I.P.	Unadjusted Final Period Ceilings	Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment	Adjusted Final Period Export Ceiling
Semi-Finished Steel	100,418	0.27%	271,127	+++	+++	271,127
C/A Flat Rolled	38,695	0.33%	127,694	+++	+++	127,694
C/A HR Sheet and Strip	17,669	0.27%	47,706	+++	+++	47,706
C/A CR Sheet and Strip	14,634	0.22%	32,194	+++	+++	32,194
Plate	5,845	0.81%	47,345	+++	+++	47,345
Stainless Flat Rolled	1,318	1.02%	13,439	+++	+++	13,439
Coated Flat Rolled	17,370	0.77%	133,749	+++	+++	133,749
Bar and Rod	20,589	1.15%	236,771	+++	+++	236,771
Carbon CF Bar	1,269	0.62%	7,866	+++	+++	7,866
Carbon Wire Rod	5,759	2.51%	144,545	+++	+++	144,545
Stainless Bar and Rod	229	0.03%	69	+++	+++	69
Angles, Shapes, Sections/Rail and Rail Products	9,094	0.83%	75,478	+++	+++	75,478
Wire and Wire Products	1,919	3.47%	66,581	+++	+++	66,581
Wire Rope	203	2.94%	5,954	+++	+++	5,954
Wire Strand	n/a	***	2,317	+++	n/a	2,317
Panels and Mesh	1,880	1.00%	18,800	+++	+++	18,800
Other Wire and Wire Products and Fence	1,880	2.10%	39,480	+++	+++	39,480
Pipe and Tube	7,883	2.95%	232,534	+++	+++	232,534
OCTG	2,143	2.60%	55,705	+++	+++	55,705
Line Pipe	2,063	4.17%	86,006	+++	+++	86,006
Standard Pipe	2,026	4.83%	97,868	+++	+++	97,868
Tool Steel	94	0.36%	338	+++	+++	338

Final Period Apparent Consumption is defined as 1.25 * Forecasted 1991 Apparent Consumption

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

^a 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.

+++ Not yet available

n/a Not Applicable

V E N E Z U E L A

February 1991 Forecast of 1991 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)#*	Arrangement I.P.	Unadjusted Final Period Ceiling	Flexibility Adjustments	Actual to Forecasted Apparent Consumption Adjustment	Adjusted Final Period Export Ceiling

Carbon/Alloy Flat-Rolled and						
Stainless	40,013	0.223%	89,228	+++	+++	89,228
Coated Flat-Rolled	17,370	0.195%	33,872	+++	+++	33,872
Bar and Rod	20,589	0.358%	73,708	+++	+++	73,708
Carbon Wire Rod	5,759	0.339%	19,522	+++	+++	19,522
Rebar	5,635	0.754%	42,488	+++	+++	42,488
Pipe & Tube	7,883	0.844%	66,528	+++	+++	66,528
OCTG	2,143	0.000%	0	+++	+++	0
Line	2,063	2.246%	46,324	+++	+++	46,324
Standard	2,026	0.540%	10,942	+++	+++	10,942
Other Steel Products	11,106	0.129%	14,327	+++	+++	14,327
Semi-Finished	100,418	0.069%	69,288	+++	+++	69,288

Final Period Apparent Consumption is defined as 1.25 * Forecasted 1991 Apparent Consumption.

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

+++ Not yet available

1991 Export Ceilings of Fixed Tonnage Countries
(Metric Tons)

P O L A N D

Product Category	Tons
-----	----
Plate	30,000
Stainless Bars	0
Stainless Rod	0
Wire Rod	10,000
Structurals	30,000
Wire and Wire Products	25,000
OCTG	0
Other Pipe & Tube	10,000
All Other Steel Products	9,650
Alloy Tool Steel	350
Total	115,000

E A S T G E R M A N Y

Product Category	Tons
-----	----
Flat Rolled Products	54,000
Stainless Bars	0
Stainless Rod	0
Wire Rod	20,000
OCTG	0
Other Pipe & Tube	6,000
All Other Steel Products	10,000
Alloy Tool Steel	0
Total	90,000

Y U G O S L A V I A

Product Category	Tons
-----	----
Stainless Bars	500
Stainless Rod	1,500
Wire and Wire Products	14,000
OCTG	0
Other Pipe & Tube	11,000
Other Steel Products	23,000
Alloy Tool Steel	0
Total	50,000

H U N G A R Y

Product Category	Tons
-----	----
Flat Rolled Products	33,000
Stainless Bars	200
Stainless Rod	200
OCTG	0
All Other Steel Products	6,500
Alloy Tool Steel	100
Total	40,000

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

Product Category	Tons
-----	----
Flat Rolled Products	16,000
Stainless Bars	100
Stainless Rod	200
Wire Rod	11,000
OCTG	2,000
All Other Steel Products	4,000
Alloy Tool Steel	200
Total	33,500

R O M A N I A

Product Category	Tons
-----	----
Plate	65,500
Sheet & Strip	5,000
Stainless Bars	200
Stainless Rod	200
OCTG	2,000
Other Pipe & Tube	23,000
All Other Steel Products	4,000
Alloy Tool Steel	100
Total	100,000

1991 Export Ceilings of Fixed Tonnage Countries
(Metric Tons)

THE PEOPLE'S REPUBLIC
OF CHINA

Product Category	Metric Tons
-----	-----
Nails	36,000
All Other Steel Products	38,500
Total	74,500

TRINIDAD AND TOBAGO

Product Category	Net Tons
-----	-----
Semi-Finished Steel	24,250
Bars and Rod	91,000
Wire Rod	70,000
All Other Steel Products	4,750
Total	120,000