

QUARTERLY REPORT ON THE STATUS OF THE STEEL INDUSTRY

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Multilateral Steel Agreement

Overview

As part of the President's Steel Trade Liberalization Program (see Preface), the United States is currently negotiating a Multilateral Steel Agreement (MSA) with 17 countries and the European Community to establish an open and equitable environment for trade in steel products. Primary elements of the proposed agreement include:

- the elimination of most steel subsidies;
- the elimination of steel tariffs;
- the elimination of non-tariff barriers; and
- the establishment of an effective dispute settlement mechanism.

The proposed agreement would prohibit all export subsidies and domestic subsidies for steel with four strictly defined exceptions. These exceptions are:

- assistance to benefit displaced or retired workers;
- assistance to close steel-producing facilities, provided they are closed in their entirety;
- assistance for research and development that is made publicly available, limited by percent of costs for each type; and
- assistance to meet new environmental protection standards, also limited by percent of various costs.

In addition, the proposed agreement would reduce steel tariffs to zero over a ten-year period, prohibit countries from establishing or maintaining restrictive or discriminatory non-tariff border measures, including steel VRAs, and provide a dispute settlement mechanism to enforce these new disciplines.

The objective of the MSA is to establish stronger disciplines to eliminate and prevent past practices that have distorted trade and competition in the steel industry. With this objective in mind, negotiators are working to reach agreement by the end of this year, prior to the March 31, 1992 termination of the VRAs and most steel Bilateral Consensus Agreements (see below). The next round of negotiations on the MSA are scheduled for the week of September 30, 1991 in Geneva, Switzerland.

Background

In July 1989, the President announced that the VRAs would be extended for two and a half years but made progressively more liberal for those countries signing Bilateral Consensus Agreements (BCAs). Under the individual BCAs with the United States, countries agreed to prohibit most steel subsidies, to work to reduce and eliminate tariffs and other market access barriers in the steel area, and to work in the Uruguay Round of trade negotiations to incorporate these commitments into a more global agreement.

The BCA commitments became the foundation of the multilateral negotiations which began in the fall of 1990. Currently, participants in the MSA discussions include those countries having BCAs with the United States

(Australia, Austria, Brazil, the European Community (12 countries), Finland, Japan, Korea, Mexico, the Republic of Trinidad and Tobago, and Yugoslavia) as well as 8 other steel traders (Argentina, Canada, Hungary, New Zealand, Norway, Poland, Sweden, and Switzerland), which together account for over 80 percent of the world's steel exports.

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The Steel Industry of ASEAN Nations: Progress and Prospects

Southeast Asia¹ is the fastest growing region in the world in terms of steel industry development. Much of the increased steel demand in recent years has been supplied by imports. Planned increases in capacity, however, could result in growing self-sufficiency in steel as well as increased steel exports. While this could affect traditional exporters to the region, such as Korea and Japan, it could also affect the U.S. market and U.S. producers, who are exporting an increasing share of production. U.S. imports of steel from Southeast Asia have traditionally been small. They have, however, been subject to a number of unfair trade cases during the 1980s.

Steel Consumption

Rapid economic growth has been the impetus for the recent increase in steel consumption in Southeast Asia. Thailand has the fastest growing economy in the region; between 1984 and 1990, its real gross domestic product (GDP) increased at an average annual rate of 8.8 percent. Even in the Philippines, where economic growth has been the slowest, real GDP increased 3 percent per year during 1984-89.²

As the economies of the region have expanded, steel-consuming industries, particularly those associated with construction, have grown rapidly. As a result, Southeast Asia's crude steel consumption has quadrupled since 1970, and nearly doubled since 1985 (table a). Despite the increase, the per-capita steel consumption in the region (excluding Singapore) is still low by international standards, particularly in Indonesia. Indonesia consumed 13 kilograms of steel per capita in 1989, far less than the 420 kilograms average for industrialized nations, and less than one third the average for developing countries (45 kilograms).³ On this basis, the potential for continued growth in steel demand is considerable.

Production

Spurred by the increase in steel consumption, crude steel production in Southeast Asia has risen considerably since 1970, reaching 4.7 million metric tons in 1990 (table a). Despite the increase, the region's steel industry remains small, representing less than one percent of global production in 1990. Indonesia is by far the region's largest producer; its state-owned Krakatau Steel is the only integrated steelworks in the region. In addition to raw steel producers, the region has numerous steel processors that convert semi- or partially-finished imported steel products into finished steel. The region's finished production therefore likely exceeds its crude steel output.

¹ For the purposes of this write-up, the term Southeast Asia is used to signify members of the Association of Southeast Asian Nations (ASEAN), which includes Indonesia, Malaysia, the Philippines, Singapore and Thailand. Although Brunei is also a member of ASEAN, it has no steel industry and is therefore excluded from this write-up.

² Calculated from statistics of the International Monetary Fund, International Financial Statistics, August, 1991.

³ International Iron and Steel Institute, Steel Statistical Yearbook 1990.

Table a
Crude steel: Apparent consumption and production, by selected country and year, 1970-1990

(In thousand metric tons)

Country	1970	1975	1980	1985	1990
Apparent consumption					
Indonesia	597	1,448	3,013	2,392	3,600
Malaysia	606	744	1,530	2,008	2,200
Philippines	1,351	1,088	1,195	674	1,900
Singapore	800	1,619	1,832	2,042	2,971
Thailand	793	1,108	1,990	2,770	7,044
Total	4,147	6,007	9,560	9,886	17,715
Production					
Indonesia	10	100	543	1,374	2,300
Malaysia	122	183	210	400	600
Philippines	112	309	330	250	450
Singapore	114	196	340	595	650
Thailand	153	251	450	447	685
Total	511	1,039	1,837	3,066	4,685

Source: South East Asia Iron and Steel Institute, and International Iron and Steel Institute, Steel Statistical Yearbook, various issues.

Trade

Despite growing local steel production, the region's deficit in steel trade has increased since 1985. Imports have doubled, reaching 13.5 million metric tons in 1990 (table c), equivalent to over 5 percent of the world total. Most of the region's imports are either semifinished steel, which is further processed in domestic mills, or flat-rolled steel, which is either sold directly or itself further processed into cold-rolled or coated steel products.⁴ Exports have also grown rapidly since 1985, but remain small in comparison with imports. At 1.5 million metric tons in 1990, exports represented less than one percent of the world total.

In the short term, net imports appear likely to increase. If the region's economies grow as projected, additional steel will need to be imported, at least until new steel operations come on stream. Further, many expansion projects will require increased imports to supply facilities that process imported steel primarily for domestic consumption rather than for

⁴ Calculated from statistics of United Kingdom Iron and Steel Statistics Bureau, International Steel Statistics: Selected Asian and African Countries 1987.

export. Hot strip mills, for example, often roll imported slabs, and tinplate lines coat imported cold-rolled coils. Eventually, as new slab-casting and cold-rolling facilities become operational, the need for semi-processed steel imports will decline.

Table a
Crude steel: Imports, exports, and net exports, by selected country and year, 1971-1990

(In thousand metric tons)

Country	1971	1975	1980	1985	1990 ¹
Imports					
Indonesia	463	1,040	2,055	986	1,100
Malaysia	398	528	1,147	1,454	1,500
Philippines	457	596	904	346	1,300
Singapore	733	1,207	1,597	1,914	3,122
Thailand	475	568	1,344	2,145	6,513
Total	2,526	3,939	7,047	6,845	13,535
Exports					
Indonesia	0	0	24	111	400
Malaysia	47	14	89	72	75
Philippines	67	2	122	4	30
Singapore	109	182	370	467	819
Thailand	10	9	78	148	154
Total	233	207	683	802	1,478
Net imports					
Indonesia	463	1,040	2,031	875	700
Malaysia	351	514	1,058	1,382	1,425
Philippines	390	594	782	342	1,270
Singapore	624	1,025	1,227	1,447	2,303
Thailand	465	559	1,266	1,997	6,359
Total	2,293	3,732	6,364	6,043	12,057

¹ Estimated.

Source: South East Asia Iron and Steel Institute, and International Iron and Steel Institute, Steel Statistical Yearbook, various issues.

Capacity expansion

Several projects underway or under consideration are likely to increase the region's self-sufficiency in steel, particularly in flat-rolled products.

Currently, the region has the capability to produce approximately half of the crude steel it consumes. By 1995, the ratio will likely rise to three-quarters.⁵ Expansion projects include three integrated steelworks with a combined annual crude steel capacity of 6.1 million tons per year (tpy); an additional 3 million tpy of direct reduced iron (DRI) capacity, with more under consideration; and an additional 5-6 million tpy of hot strip mill capacity. Several other projects will increase capacity in electric arc furnace steelmaking, cold-rolling, coating, and long-products production (see addendum to write-up for a more detailed discussion of expansion plans).

Foreign investment

The capital requirements for the region's expansion projects have led many private and public investors to turn to joint ventures with foreign companies as a means of acquiring much needed capital and technology. Steelmakers in Japan are the most active in the region, but Chinese, Korean, and Taiwanese have also been active. There has been limited participation by companies from India and Europe, particularly Germany, France, and Italy.

Much of the Japanese investment involves trading companies that set up processing lines and service centers to service Japanese manufacturing operations in the region. Activity has been greatest in Thailand (table b).

Table b
Steel service centers established or being established by major Japanese trading companies, 1989

(In thousand metric tons)

Country	Sumitomo Corp.	Mitsubishi Corp.	Nissho-Iwai	Mitsui and Co.	Marubeni	C. Itoh	Total
Indonesia . . .	60	150	0	0	0	0	210
Malaysia . . .	180	0	70	60	40	0	350
Philippines . .	60	100	50	0	0	0	210
Singapore . . .	220	0	100	0	40	0	360
Thailand . . .	110	200	0	70	30	60	470
Total	630	450	220	130	110	60	1,600

Source: Kinzoku Tokuhō, as published in Metal Bulletin, Dec. 4, 1989, p. 30.

Outlook

In the past, large steel projects in the region have encountered delays, downsizing, and cancellations. Although the pace of regional steel industry development is high, projects currently announced or underway could experience difficulties. As projects are based on the assumption of moderate to high economic growth in the region, an economic downturn, even if temporary, could result in scaling back or cancellation of projects. A

⁵ Calculated from projections of PaineWebber's World Steel Dynamics, Capacity Monitor Report #7, (October 1990) and the South East Asia Iron and Steel Institute.

slowdown in the region's economies in the mid-1980s, for example, prompted talk of rationalizing facilities, a subject usually reserved for mature steel industries in industrialized countries.⁶ Furthermore, steel projects require infrastructure development to support facilities. Interruptions in its development could slow plans for steel industry development. Finally, steel producers often face internal opposition by downstream industries, which claim protective measures granted to steel producers are harmful to them.⁷

Despite difficulties, the region is likely to substantially increase its self-sufficiency in steel in the next decade, even if not to the degree that the announced projects would indicate. For countries that export to the region, particularly Japan, Korea, and Taiwan, this could result in reduced exports or a redirection of exports to other markets, including the United States. On the other hand, the links established between Southeast Asian companies and producers from other Asian countries may secure future steel buyers for those producers. This could be important in the future because as the region develops, demand for more high value flat-rolled steels is likely to grow. For U.S. steel producers, Southeast Asia represents an important potential export market, although a lack of established links there is likely to place it at a disadvantage.

For the remainder of the 1990s, steel exports from Southeast Asia appear likely to increase; it is unlikely, however, that producers in the region will become exporters of steel to the degree that competitors in neighboring Korea and Japan have. One reason is that local demand is likely to absorb much of the increased regional production. Another reason is related to the improvements in labor productivity made by global competitors. The adoption of new technologies has lowered the number of manhours required to produce a ton of steel, thereby diminishing the labor component of production cost. That is, steelmaking has become less labor intensive.⁸ Countries benefiting from low wage rates, such as those in Southeast Asia, therefore have less opportunity to achieve cost advantage. Nevertheless, exports are included in the announced plans of several ongoing steel projects. Malaysia's integrated steel plant, for example, is expected to export 30 percent of its output when it becomes operational.⁹

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⁶ Chris Brown-Humes, "Steel slips of growth curve," Metal Bulletin Monthly, August 1986, p. 80.

⁷ In Thailand, for example, construction companies formed the Committee Seeking Solutions to the Construction Material Shortage, which lobbied the Thai government for lower tariffs on steel items. "Extra tax break sought for steel," Bangkok Post, Nov. 9, 1990.

⁸ For example, whereas labor accounted for 37 percent of U.S. production costs in 1980, it accounted for 29 percent in 1990. Calculated from statistics of PaineWebber World Steel Dynamics, Cost Monitor #13.

⁹ Bob Jones, "China Steel project 'not finalised'," MB, May 31, 1990, p. 23.

Addendum: Steel Capacity Expansion Projects in Southeast Asia

Below is a country-by-country description of the major steel-related projects.

Indonesia.--Krakatau began a \$700-million expansion and quality upgrade project in November 1990. Scheduled to be completed in 1993, the project includes: (1) a 60-percent increase in harbor capacity at the steel mill site to handle increased iron ore imports; (2) expansion of directed reduced iron (DRI) capacity from 2 million tons per year (tpy) to 2.8 million tpy, minimizing reliance on imported scrap; (3) the addition of two new 30-ton electric furnaces (for a total of ten), increasing melt shop capacity from 1.5 million tpy to 2.5 million tpy; (4) installation of a new billet caster, adding 200,000 tpy of capacity to the current 500,000 tpy; (5) upgrades to the slab caster that will add 800,000 tpy to the current 1 million tpy capacity; (6) an additional 800,000 tpy in hot strip mill capacity to 1.8 million tpy; and (7) a 10-percent increase in wire rod capacity to 220,000 tpy.¹⁰

Another project expected to add flat-rolling capacity to Indonesia involves Ispat Indo, and minimill jointly owned by investors in Indonesia, India, and Hong Kong. The company is planning a \$600-million steel project, based on DRI and electric arc furnaces, that will provide steel to a 950,000-tpy hot strip mill. At the same location, Ispat Indo plans to add a second bar and rod mill with a capacity of 500,000 tpy.¹¹

Several Indonesian minimills also plan to increase their melting capacity, either through upgrades or the installation of new electric arc furnaces. In addition, at least seven rolling mills have plans to move upstream by adding melt shops to their operations.¹²

Plans for a second integrated steelworks are under consideration. The initial plans entail construction of a 3-4 million tpy plant at a cost of \$2-3 billion dollars.¹³

Malaysia.--The largest proposed project in the region is the construction of a 2.6-million-tpy integrated facility for the production of flat products. Taiwan's China Steel Corporation (CSC) has reportedly offered to construct the facility and take a 40-percent ownership position. Other Taiwanese investors will take a 9-percent share of the project, while the remaining 51 percent will be taken by a Malaysian steelmaker, Amalgamated Steel Mills.¹⁴ CSC reportedly chose Malaysia in part because of its central location within a region of high projected growth in steel demand.¹⁵

Perwaja Steel, the state-owned long products producer, is also interested in diversifying into flat-rolled production. To meet the hot metal

¹⁰ Paul C. Ehrlich, "Kakatau Steel commences expansion project," American Metal Market (AMM), Nov. 28, 1990, p. 3; Edward Worden, "Kakatau hikes DRI capacity," AMM, Sep. 11, 1990, pp. 2,5.

¹¹ "Developing countries move up market," Steel Times International, May 1991, p. 15.

¹² "Indonesia reroller installs EAF," Metal Bulletin (MB), Sep. 20, 1990, p. 23.

¹³ Paul C. Ehrlich, "Kakatau Steel sets \$700M expansion budget," AMM, Apr. 2, 1990, p. 4.

¹⁴ Bob King, "China Steel to get stake in Malaysian steel plant," AMM, Feb. 14, 1991, p. 3.

¹⁵ "Developing countries move up market," p. 14. Other factors noted include Malaysia's stable political climate, its educated workforce, low labor costs, and generous government policies.

needs that such a move would require, Perwaja has contracted for the rebuilding of its 600,000-tpy DRI facility;¹⁶ a second DRI facility of the same size is expected to come on stream in late 1992. By 1995-96, Perwaja hopes to increase annual finished steel output to 2.2-2.5 million tpy. Plans for flat-products production depend on the CSC project. Reportedly, Perwaja would like to restrict CSC to a cold strip mill, which would use Perwaja's flat-rolled production as feedstock.¹⁷ Perwaja's plans might be further supported if POSCO of Korea pursues its interests in constructing and taking a 50-percent stake in an 820,000-tpy cold-rolling facility in Malaysia.¹⁸

China's largest steelmaker, Anshan Iron and Steel, and the state government of Trengganu (Malaysia) are also planning a first quarter start-up for a joint venture cold-rolling facility, although at 200,000 tpy capacity, the facility would be considerably smaller than the POSCO joint venture. It would also serve a different market, selling its cold-rolled coil to China.¹⁹ Malaysia's only existing cold-rolling facility became operational in 1990; the 144,000-tpy facility is owned by Maruichi Malaysia Steel Tube Bhd.²⁰

Malaysia's two other steelmakers, Amalgamated Steel Mills and Malayawata, are both investing in expansions of their melting capacity, and two rerollers, Southern Iron & Steel and Antara Steel, are reportedly interested in moving upstream by investing in melting capacity as well.²¹ In addition, a 400,000-tpy wire rod mill is being built by Perwaja, and tinplate producer Perstima is doubling its output to 180,000 tpy.²²

Philippines.--Although there are two projects, one government and one private, to construct the nation's first integrated steel plant, it is not clear that both will go forward.

National Steel Corporation (NSC), a state-owned steel company, is planning to add iron and steelmaking operations to its billet and flat-rolling facilities. The \$1.7-billion project would have a crude steelmaking capacity of 2.5-million tpy, to be doubled in a second stage if increased demand warranted the expansion. NSC, which is considering partial privatization, opened up bids for the project in May; Taiwanese and Korean investors reportedly expressed an interest in participating in the project, and NSC also reportedly spoke with Japanese steelmakers.²³

¹⁶ The existing DRI facility, installed by Nippon Steel of Japan, was shut down in 1987 because of technical problems. Perwaja has contracted Ferrostaal, a German steel company, to rebuild the facility. Bob Jones, "Perwaja favours Ferrostaal for DR," *MB*, May 10, 1990, p. 37, and "Malaysian steel mill finally makes profit after Japanese leave," *Japan Digest*, July 6, 1990, p. 4.

¹⁷ "The long march to self-sufficiency," *Metal Bulletin Monthly*, Sep. 1990, pp. 43-49.

¹⁸ "Posco plans CR mill for Malaysian venture," *MB*, Feb. 1, 1990, p. 26.

¹⁹ Bob Jones, "Anshan plans CR mill in Malaysia," *MB*, May 10, 1990, p. 37. Anshan will take a 40-percent stake in the joint venture and will also be a primary source for hot band.

²⁰ "Malaysia nears CR coil debut," *MB*, Jan. 18, 1990, p. 22. Hot coil for the cold strip mill will be imported from CSC in Taiwan, POSCO in Korea, and from various companies in Japan.

²¹ "The long march to self-sufficiency," p. 47.

²² "Developing countries move up market," p. 14.

²³ "Developing countries move up market," p. 15, and "Arizabal denies Japanese pull-out," *MB*, August 23, 1990, p. 23.

The impetus behind the project is the desire to replace slab imports with domestically produced slabs, especially given the ongoing expansion of NSC's flat-rolling facilities. A new semi-continuous hot strip mill, to be commissioned later this year, will expand hot-rolling capacity from 440,000 tpy to 1.54 million tpy. The new mill will supply the feedstock for its cold-rolling facilities, diminishing the need to import hot band. Cold-rolled capacity is scheduled to increase by 65 percent to 800,000 tpy.²⁴

At the same time, the F. Jacinto Group, a private sector Philippine-Chinese joint venture steel company and rival of the National Steel Corporation,²⁵ has announced its own plans for an integrated steelworks. The proposed plant would be substantially smaller (1 million tpy) than the NSC plant, and about two-thirds the cost on a per-ton basis; total cost would be \$400-450 million.²⁶ The F. Jacinto Group chose Shougang Beijing Iron and Steel Corporation, the fourth largest steelworks in China, as a joint venture partner for the project, in part because of its success in constructing small-scale steelmaking facilities.²⁷ Financing for the project has not yet been finalized, although participation has reportedly been offered to a wide number of investors, including the general public and the government, through National Steel Corporation.²⁸

In addition to plans for an integrated steelworks, government incentives offered during 1990-91 resulted in the announcement of ten new billet projects.²⁹ Together the projects would expand billet capacity by over 50 percent to 1.3 million tpy. The additional capacity should increase the country's self-reliance in steel billets, for which demand is expected to grow rapidly. Currently, the Philippines imports about half its billets.³⁰

Singapore.--Although Singapore's single crude steel producer is currently undergoing a relatively small expansion program, limited land in the country is likely to prevent construction of greenfield steel facilities.³¹ Available capital is more likely to be spent in overseas joint venture operations. By 1995, Singapore's steelmaker, Natsteel (formerly National Iron and Steel Mill), plans to operate minimills in four Southeast Asian countries. In addition, the company is reportedly interested in pairing up with a U.S. steel company to produce and market specialty and high alloy steels in the United States.³²

²⁴ Paul C. Ehrlich, "National Steel plans \$1.9B complex," *AMM*, May 10, 1991, p. 4, and Bob Jones, "A slow race to integration," *Metal Bulletin Monthly*, Sep. 1990, pp. 51-52.

²⁵ The Jacinto Group was the original owner of NSC's Iligan works, but in 1972, Jacinto's assets were confiscated and nationalized after a dispute with the Marcos government.

²⁶ The project includes plans to expand capacity to 2-3 million tpy in a second phase if local demand made the expansion economical. Bob Jones, "Jacinto steps in with integrated steel plant," *MB*, May 24, 1990, p. 25, and Bob Jones, "A slow race," p. 53.

²⁷ Leo J. Romero, "Project introduction - Primary iron and steel complex: Philippines," *SEAISI Quarterly*, Oct. 1990, pp. 57-58.

²⁸ Bob Jones, "Jacinto steps in," p. 24.

²⁹ Billets are semifinished products used largely to produce steel bars and light shapes.

³⁰ Demand for billets in the Philippines has increased 20 percent per year during 1985-90. Government projections show an eight-percent annual growth rate for the next few years. "Billet projects spearhead Philippines expansion," *Metal Bulletin Monthly*, May 1991, p. 68.

³¹ The WEFA Group, *Conquering World Steel Markets 1990-Vol. III*, p. 2.117.

³² Ben Teplitz, "National Iron eyes expansion in Asia," *AMM*, May 28, 1990, p. 8, and Bob Jones, "Nism set its sights on regional status," *MB*, May 21, 1991, p. 27.

Thailand.--Although Thailand had plans to construct an integrated steelworks in the 1970s, the project was scaled back in 1984 to exclude the blast furnace and steel melt shop. In 1990, the government awarded approval for the construction of a country's first large-scale flat-rolling facilities to the Sahaviriya Group, a Thai steel processor. The first part of the \$637-million project includes the construction of a 500,000-tpy hot strip mill, with capacity increasing to 1.8 million tpy after three years; it also includes a 135,000-tpy galvanizing line, and both are scheduled to be commissioned in 1994. At that point, a 200,000-tpy cold strip mill would be constructed, with capacity gradually expanding to 670,000 tpy.³³

Construction of a 1-million tpy direct reduced iron plant is also under consideration in order to meet the needs of the country's growing number of electric-furnace steelmakers. The facility is proposed as a public-private sector joint venture; a consortium of private sector steelmakers would take a 60-percent stake in the project, while the state would take the remaining 40 percent. The main obstacle is government resistance to supplying natural gas at subsidized rates.³⁴

A construction boom-induced shortage in steel rebar prompted the government to offer incentives for construction of electric furnace-based rebar facilities. Six companies, with a combined capacity of approximately 1.8 million tpy, are reportedly constructing new facilities that will come on stream in 1992.³⁵

To meet growing demand in the canning markets (Thailand has 50 percent of the world market for canned tuna and pineapple), tin plate capacity is being expanded through joint ventures with Japanese steel companies. Thai Tinsplate Manufacturing is more than doubling its capacity to 360,000 tpy with the installation of a new line from Kawasaki Steel; at least two other new tinplating lines are planned with Japanese participation.³⁶

Other joint venture projects for pipe, bar, structural, stainless, and galvanized products with investors from Korea, France, Italy, and Singapore are in various stages of development.

³³ The capacity numbers are reported to be the minimum amounts Sahaviriya Group plans to produce. Bob Jones, "Thailand aims at 1994 strip mill start-up," MB, May 24, 1990, and Paul C. Ehrlich, "Thailand awards pact for its 1st big steel plant," AMM, Nov. 20, 1989.

³⁴ Adrian Strain, "Thailand looks to DRI," MB, Sep. 24, 1990, p. 29, and "Cheap gas is key to Thai DR plant," MB, Jan. 31, 1991, p. 25.

³⁵ Bob Jones, "Thai rebar shortage prompts new projects," MB, May 14, 1990, p. 41, Adrian Strain, p. 29.

³⁶ "Thailand to boost tinsplate capacity," MB, Sep. 18, 1989, p. 39; "Nippon Steel enters Thai tinsplate project," MB, Oct. 19, 1989, p. 29; and "Another Japanese plant starts up in Thailand," MB, June 14, 1990, p. 31.

Quarterly Review:
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U.S. STEEL INDUSTRY HIGHLIGHTS

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

1,000 short tons

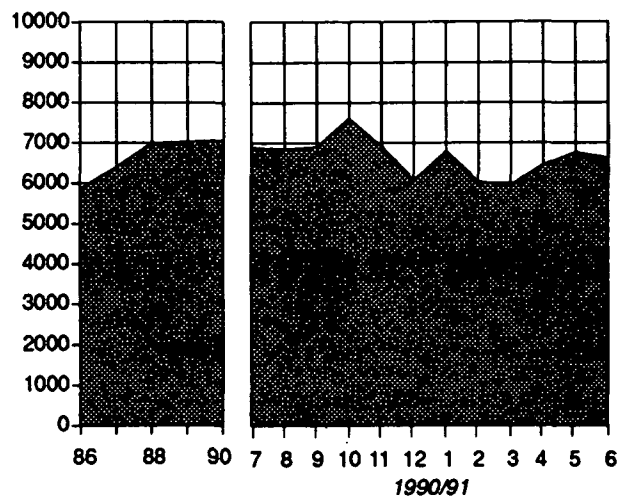


Figure 2
U.S. average monthly and monthly steel imports

1,000 short tons

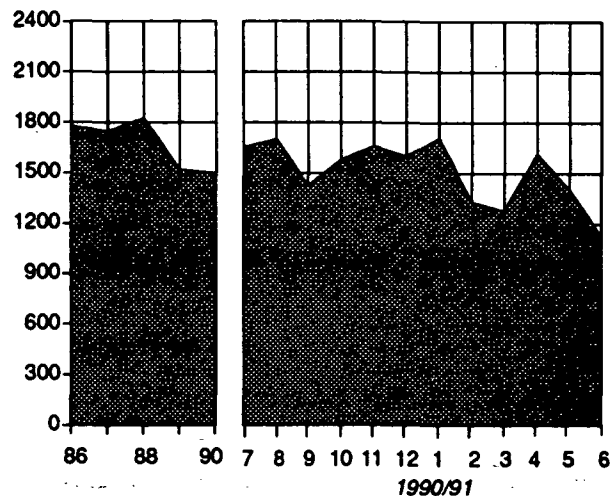


Figure 3
U.S. average monthly and monthly steel exports

1,000 short tons

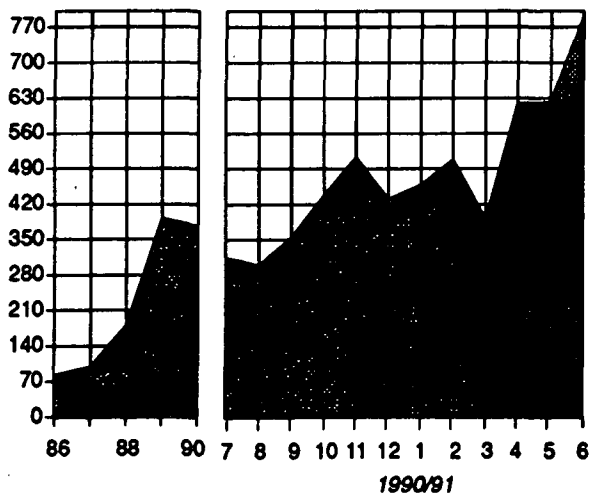
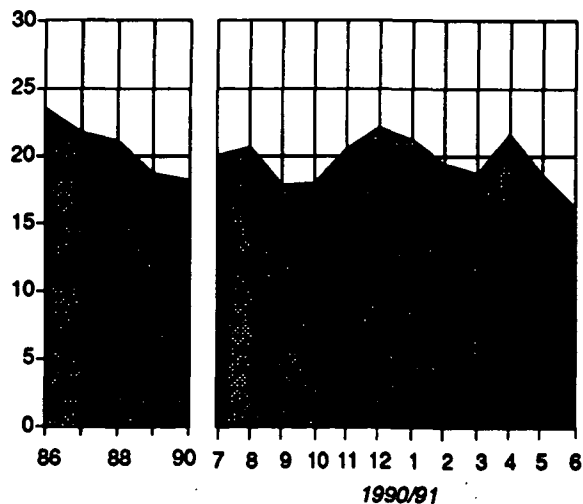


Figure 4
U.S. average monthly and monthly steel import penetration¹

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

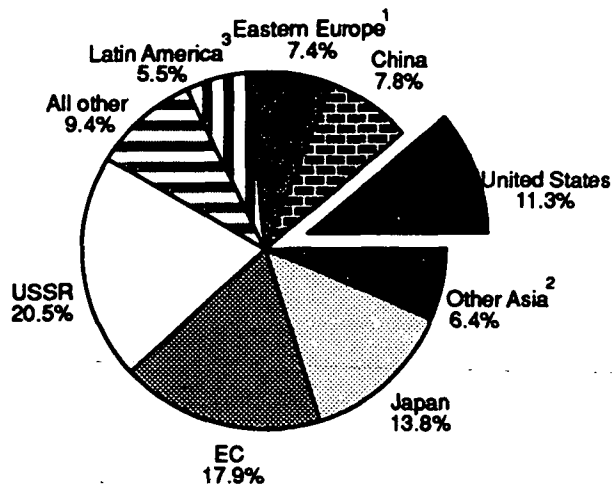
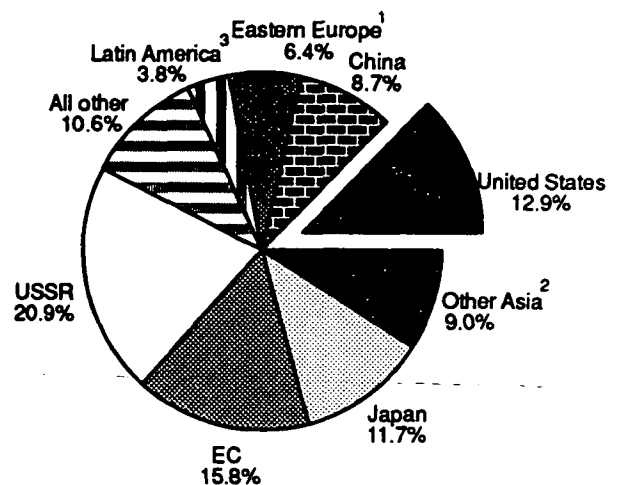


Figure 6

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	² 8.4	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	⁴ 8.8	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, 1956-80

<i>Time period</i>	<i>United States</i>	<i>EC-12</i>	<i>Japan</i>	<i>Principal steel-producing developing countries¹</i>	<i>World total</i>
<i>Million metric tons</i>					
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

<i>Country/region</i>	<i>1985</i>	<i>1986</i>	<i>1987</i>	<i>1988</i>	<i>1989</i>	<i>1990</i>	<i>Percent Change 1985-1990</i>
<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 country or region, by specified period, 1970-1989¹

<i>Period</i>	<i>United States</i>	<i>EC-12²</i>	<i>Japan</i>	<i>Principal steel-producing developing countries³</i>	<i>Other</i>	<i>World</i>
<i>1,000 metric tons</i>						
1970-1974	4,171	52,677	23,821	1,737	24,263	106,669
1975-1979	2,440	59,038	31,970	3,966	32,251	129,665
1980-1984	2,028	63,369	29,919	11,344	37,821	144,480
1985-1989	1,758	69,386	25,727	17,678	50,201	164,750
<i>Percent of world exports</i>						
1970-1974	3.9	49.4	22.3	1.6	22.7	100.0
1975-1979	1.9	45.5	24.7	3.1	24.9	100.0
1980-1984	1.4	43.9	20.7	7.9	26.2	100.0
1985-1989	1.1	42.1	15.6	10.7	30.5	100.0
<i>Percent of shipments⁴</i>						
1970-1974	4.4	44.2	28.8	5.4	(⁵)	20.8
1975-1979	2.9	51.3	35.1	8.3	15.6	23.8
1980-1984	3.0	57.1	32.1	15.7	17.2	25.6
1985-1989	2.6	59.6	26.6	17.0	20.6	26.2

¹ Includes intra-EC trade.

² Includes all twelve countries for all years.

³ Includes Brazil, Peoples Republic of China, India, Republic of Korea, Mexico, and Taiwan.

⁴ Derived by the staff of the International Trade Commission.

⁵ Not available.

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

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

<i>Period</i>	<i>United States</i>	<i>EC-12²</i>	<i>Japan</i>	<i>Principal steel-producing developing countries³</i>	<i>All other</i>	<i>World total</i>
<i>1,000 metric tons</i>						
1970-74	14,274	36,300	143	8,505	47,384	106,606
1975-79	15,044	39,408	464	13,115	61,805	129,835
1980-84	16,952	40,798	2,296	15,148	69,312	144,506
1985-89	18,934	50,017	5,086	22,874	68,150	165,060
<i>Percent of world imports</i>						
1970-74	13.4	34.1	0.1	8.0	44.4	100.0
1975-79	11.6	30.4	0.4	10.1	47.6	100.0
1980-84	11.7	28.2	1.6	10.5	48.0	100.0
1985-89	11.5	30.3	3.1	13.9	41.3	100.0
<i>Percent of apparent consumption</i>						
1970-74	13.5	35.3	0.2	4.2	(⁴)	20.8
1975-79	15.7	41.3	0.8	23.0	26.2	23.9
1980-84	20.6	46.1	3.5	20.0	27.6	25.6
1985-89	22.2	51.5	6.7	21.0	26.0	26.2

¹ Intra-EC trade included.

² Includes all twelve countries for all years.

³ Includes Brazil, Peoples Republic of China, India, Republic of Korea, Mexico, and Taiwan.

⁴ Not available.

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

Preface

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

Background of the VRAs

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

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

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

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

Specialty steel

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

Extension of the VRAs

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

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

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

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

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

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

Operation of the VRAs

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

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

⁶(...continued)

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

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

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

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

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

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

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

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

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

Source: USTR press release, December 12, 1989.

Structure of the Report

- o The 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

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

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

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.

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

The rails and related products category includes both new and used rails (see appendix E for complete definition). Of the 349,554 tons of rails and related products imported into the United States in 1990, 48 percent (or 170,288 tons) were used rails.

To reflect changes made to the HTS effective July 1, 1991, several HTS import numbers have been added beginning with this report. All new numbers are classified under pipe and tube. Refer to appendix E for detail.

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Steel. U.S. raw steel production, capability utilization, employment, wages, shipments, imports, exports, apparent consumption, net sales, 1986-90, and specified periods, 1990, 1991

Item	1986	1987	1988	1989	1990	January-June	
						1990	1991
Raw steel:							
Production (1,000 short tons)...	81,606	89,151	99,924	97,480	98,015	49,281	42,647
Capability utilization (percent).....	63.8	79.5	89.2	84.1	84.0	84.9	72.1
Continuously cast (percent).....	55.2	59.8	61.3	64.6	67.1	66.4	75.8
Employment:							
Total (thousands) ¹	273.5	268.4	278.5	277.7	270.7	275.6	² 263.6
Production workers (thousands) ¹	208.8	202.9	215.5	214.2	207.6	211.7	² 200.8
Hourly employment cost ³ (dollars).....	23.24	23.71	24.65	24.63	25.62	25.61	27.37
Steel:							
Shipments (1,000 short tons)....	70,263	76,654	83,840	84,259	84,981	42,449	38,568
Imports (1,000 short tons).....	21,289	20,938	21,869	18,219	17,953	8,332	8,442
Exports (1,000 short tons).....	980	1,176	2,152	4,692	4,509	1,864	3,384
Apparent consumption (1,000 short tons).....	90,572	96,416	103,558	97,786	98,424	48,917	43,626
Ratio of imports to consumption (percent).....	23.5	21.7	21.1	18.6	18.2	17.0	19.4
Export-shipment ratio (percent).....	1.4	1.5	2.6	5.6	5.3	4.4	8.8
Steel operations:							
Net steel sales (million dollars).....	24,875	26,933	32,466	31,525	29,424	⁴ 14,712	⁴ 12,772
Net steel income ⁵ (million dollars).....	(4,150)	1,077	(567)	1,597	(220)	⁴ 653	⁴ (825)
Ratio of income to net sales (percent).....	(16.7)	4	(1.7)	5.1	-0.7	4.4	(6.5)

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

²Figures represent averages for January-May only.

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

⁴Figures are based on reporting companies representing 70 percent and 68 percent of the industry in terms of raw steel production for the year-to-date period in 1990 and 1991, respectively.

⁵January-June data are for operating (not net) income.

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, and by specified periods, 1990 and 1991

(Short tons)

Item	1986	1987	1988	1989	1990	January-June	
						1990	1991
All grades of steel:							
Semifinished-----	1,485,249	1,593,216	1,927,658	1,850,245	1,916,575	954,810	1,216,231
Plate-----	3,564,806	4,047,919	7,327,887	7,293,115	7,944,624	3,827,261	3,575,196
Sheet and strip-----	40,493,141	43,288,266	44,707,915	45,376,975	43,815,735	22,140,577	19,216,423
Bars & certain shapes 1/--	12,171,142	13,575,114	14,488,773	14,510,007	14,726,831	7,534,218	6,427,197
Wire rod-----	3,463,827	3,840,494	4,048,230	4,229,889	4,396,283	2,057,848	2,183,476
Wire-----	802,259	800,063	1,072,698	1,005,407	917,950	496,003	442,412
Wire products-----	278,068	304,761	3/	3/	3/	3/	3/
Structural shapes & units--	4,527,632	5,119,714	5,208,754	5,438,404	6,092,821	2,797,075	2,782,527
Rails & related products--	640,197	514,647	615,303	544,771	518,593	307,913	277,675
Pipe and tube-----	2,836,458	3,569,647	4,443,251	4,010,591	4,651,570	2,309,501	2,447,172
Total-----	70,262,779	76,653,841	83,840,469	84,259,404	84,980,982	42,449,325	38,568,309
Carbon & certain alloy 2/ steel:							
Semifinished-----	1,435,662	1,516,152	1,851,197	1,753,249	1,873,588	901,323	1,167,491
Plate-----	3,448,947	3,888,838	7,145,009	7,123,691	7,738,559	3,726,176	3,480,581
Sheet and strip-----	39,693,739	42,347,623	43,663,695	44,419,414	42,856,122	21,663,418	18,722,277
Bars & certain shapes-----	11,996,343	13,391,238	14,284,744	14,304,189	14,531,409	7,431,338	6,329,802
Wire rod-----	3,427,428	3,792,740	3,990,472	4,193,118	4,291,153	2,041,281	2,165,495
Wire-----	777,604	773,329	1,043,112	980,707	894,750	483,858	430,616
Wire products-----	278,068	304,761	3/	3/	3/	3/	3/
Structural shapes & units--	4,527,632	5,119,714	5,208,754	5,438,404	6,092,821	2,797,075	2,782,077
Rails & related products--	640,197	514,647	615,303	544,771	518,593	307,913	277,675
Pipe and tube-----	2,794,218	3,527,867	4,387,761	3,962,470	4,610,197	2,286,310	2,428,196
Total-----	69,019,838	75,176,909	82,190,047	82,720,013	83,407,192	41,662,811	37,784,210
Stainless & alloy tool steel:							
Stainless steel:							
Semifinished-----	49,587	77,064	76,461	96,996	42,987	53,487	48,740
Plate-----	115,859	159,081	182,878	169,424	206,065	101,085	94,615
Sheet and strip-----	799,402	940,643	1,044,220	957,561	959,613	477,159	494,146
Bars & certain shapes-----	119,024	125,441	139,752	138,618	137,717	74,390	72,006
Wire rod-----	36,399	47,754	57,758	36,771	105,130	16,567	17,981
Wire-----	24,655	26,734	29,586	24,700	23,200	12,145	11,796
Pipe and tube-----	42,240	41,780	55,490	48,121	41,373	23,191	18,976
Tool steel (all forms)-----	55,775	58,435	64,277	67,200	57,705	28,490	25,389
Total-----	1,242,941	1,476,932	1,650,422	1,539,391	1,573,790	786,514	783,649

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, and by specified periods, 1990 and 1991

(Short tons)

Item	1986	1987	1988	1989	1990	January-June	
						1990	1991
All grades of steel:							
Semifinished-----	2,084,322	2,288,995	2,844,979	2,197,811	2,362,820	1,082,164	1,129,199
Plate-----	1,456,790	1,566,694	1,872,937	1,437,109	1,572,722	646,488	662,363
Sheet and strip-----	8,278,604	7,875,891	7,303,964	6,443,362	6,866,501	2,897,574	3,220,197
Bars & certain shapes 1/--	1,476,368	1,359,758	1,445,932	1,356,035	1,119,085	523,351	487,779
Wire rod-----	1,362,753	1,467,030	1,493,833	1,150,116	979,241	559,395	362,943
Wire-----	582,022	555,981	540,380	494,303	432,336	238,658	197,363
Wire products-----	636,591	649,377	572,451	703,602	660,325	375,478	248,353
Structural shapes & units-----	2,179,657	2,153,669	2,188,467	1,640,361	1,020,593	525,935	343,357
Rails & related products-----	275,710	245,988	319,432	322,985	349,555	146,179	133,607
Pipe and tube-----	2,956,303	2,775,091	3,286,690	2,472,802	2,595,989	1,336,873	1,656,587
Total-----	21,289,120	20,938,474	21,869,065	18,218,486	17,959,167	8,332,095	8,441,748
Carbon & certain alloy 2/ steel:							
Semifinished-----	2,066,700	2,232,270	2,782,572	2,135,690	2,301,998	1,049,123	1,102,434
Plate-----	1,440,375	1,555,577	1,857,090	1,419,396	1,552,071	636,703	650,697
Sheet and strip-----	8,127,033	7,746,596	7,185,380	6,302,844	6,712,159	2,827,082	3,142,538
Bars & certain shapes-----	1,393,731	1,281,168	1,361,113	1,264,305	1,035,255	475,888	437,002
Wire rod-----	1,344,256	1,448,720	1,474,623	1,128,417	956,113	547,334	351,021
Wire-----	564,481	536,897	519,727	472,984	414,008	229,413	188,704
Wire products-----	636,591	649,377	572,451	703,602	660,325	375,478	248,353
Structural shapes & units-----	2,179,657	2,153,669	2,188,467	1,640,361	1,020,593	525,935	343,357
Rails & related products-----	275,710	245,988	319,432	322,985	349,555	146,179	133,607
Pipe and tube-----	2,923,029	2,748,644	3,249,937	2,435,544	2,548,769	1,313,011	1,631,610
Total-----	20,951,563	20,598,906	21,510,792	17,826,128	17,550,846	8,126,146	8,229,323
Stainless & alloy tool steel:							
Stainless steel:							
Semifinished-----	17,622	56,725	62,407	62,121	60,822	33,040	26,765
Plate-----	16,415	11,118	15,847	17,713	20,651	9,785	11,666
Sheet and strip-----	151,571	129,295	118,584	140,519	154,342	70,493	77,659
Bars & certain shapes-----	37,888	37,991	40,724	43,417	44,526	20,118	26,189
Wire rod-----	18,496	18,311	19,210	21,698	23,128	12,061	11,922
Wire-----	17,541	19,084	20,653	21,319	18,328	9,245	8,659
Pipe and tube-----	33,274	26,448	36,752	37,258	47,220	23,862	24,976
Tool steel (all forms)-----	44,749	40,599	44,095	48,313	39,304	27,345	24,588
Total-----	337,556	339,571	358,272	392,358	408,321	205,949	212,424

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, and by specified periods, 1990 and 1991

(Short tons)

Item	1986	1987	1988	1989	1990	January-June	
						1990	1991
All grades of steel:							
Semifinished-----	58,885	73,543	61,430	390,812	497,199	292,724	309,517
Plate-----	69,565	96,538	119,393	630,689	483,452	136,774	405,356
Sheet and strip-----	507,420	556,991	1,374,056	2,521,649	1,766,622	815,694	1,568,232
Bars & certain shapes 1/-----	81,224	121,869	141,461	258,640	451,278	151,561	265,568
Wire rod-----	5,876	8,217	10,161	36,093	106,632	24,492	76,678
Wire-----	26,760	26,669	36,668	31,344	70,052	23,441	40,716
Wire products-----	24,731	23,257	27,847	32,160	41,548	17,275	26,641
Structural shapes & units-----	71,525	101,373	111,614	260,750	495,007	174,707	292,740
Rails & related products-----	13,131	15,755	18,855	86,464	126,629	32,159	66,675
Pipe and tube-----	121,050	152,155	250,390	442,992	470,779	195,324	331,875
Total-----	980,167	1,176,367	2,151,875	4,691,593	4,509,198	1,864,151	3,583,998
Carbon & certain alloy 2/ steel:							
Semifinished-----	57,932	71,362	58,598	376,984	515,848	288,763	293,248
Plate-----	66,042	92,057	107,546	623,412	446,843	131,037	394,604
Sheet and strip-----	477,803	501,010	1,328,485	2,475,995	1,710,621	789,171	1,528,322
Bars & certain shapes-----	72,134	111,619	124,911	223,749	428,311	141,530	248,176
Wire rod-----	5,049	6,889	8,676	30,588	101,219	21,456	73,631
Wire-----	24,033	22,863	32,209	28,730	66,453	22,090	39,113
Wire products-----	24,731	23,257	27,847	32,160	41,548	17,275	26,641
Structural shapes & units-----	71,525	101,373	111,614	260,750	495,007	174,707	292,740
Rails & related products-----	13,131	15,755	18,855	86,464	126,629	32,159	66,675
Pipe and tube-----	118,010	143,405	244,192	434,925	457,536	189,829	325,260
Total-----	930,390	1,089,590	2,062,933	4,573,757	4,389,815	1,808,017	3,288,410
Stainless & alloy tool steel:							
Stainless steel:							
Semifinished-----	953	2,181	2,833	13,829	6,472	3,961	16,269
Plate-----	3,523	4,481	11,847	7,277	11,487	5,737	10,752
Sheet and strip-----	29,617	55,981	45,571	45,653	58,368	27,209	39,910
Bars & certain shapes-----	6,946	7,189	12,047	16,399	16,005	7,597	10,566
Wire rod-----	828	1,328	1,486	5,505	5,413	3,036	3,046
Wire-----	2,728	3,806	4,459	2,614	3,599	1,351	1,603
Pipe and tube-----	3,040	8,751	6,198	8,067	13,443	5,495	6,615
Tool steel (all forms)-----	2,144	3,061	4,502	18,492	4,594	1,748	6,827
Total-----	49,779	86,778	88,943	117,856	119,381	56,134	95,588

1/ Includes tool steel.

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

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

Table 5.--Steel mill products and certain fabricated steel products: Apparent U.S. consumption, by product and grade of steel, 1986-1990, and by specified periods, 1990 and 1991

(Short tons)

Item	1986	1987	1988	1989	1990	January-June	
						1990	1991
All grades of steel:							
Semifinished-----	3,510,686	3,808,668	4,711,207	3,657,244	3,782,196	1,744,250	2,035,913
Plate-----	4,952,031	5,518,075	9,081,431	8,099,535	9,033,894	4,336,975	3,832,203
Sheet and strip-----	48,264,325	50,607,166	50,637,823	49,298,688	48,915,614	24,222,457	20,868,388
Bars & certain shapes 1/-----	13,566,286	14,813,003	15,793,244	15,607,402	15,394,638	7,906,008	6,649,408
Wire rod-----	4,820,704	5,299,307	5,531,902	5,343,912	5,268,892	2,592,751	2,469,741
Wire-----	1,357,521	1,329,375	2,121,014	2,139,808	1,899,011	1,093,542	820,771
Wire products-----	889,928	930,881	3/	3/	3/	3/	3/
Structural shapes & units-----	6,635,764	7,172,010	7,285,607	6,818,015	6,618,407	3,148,303	2,833,144
Rails & related products-----	902,776	744,880	915,880	781,292	741,519	421,933	344,607
Pipe and tube-----	5,671,711	6,192,583	7,479,551	6,040,401	6,776,780	3,451,050	3,771,884
Total-----	90,571,732	96,415,948	103,557,659	97,786,297	98,430,951	48,917,269	43,626,059
Carbon & certain alloy 2/ steel:							
Semifinished-----	3,444,430	3,677,060	4,575,171	3,511,955	3,659,738	1,661,683	1,976,677
Plate-----	4,823,280	5,352,358	8,894,553	7,919,675	8,843,787	4,231,842	3,736,674
Sheet and strip-----	47,342,969	49,593,209	49,520,590	48,246,263	47,857,660	23,701,329	20,336,493
Bars & certain shapes-----	13,317,940	14,560,787	15,520,946	15,344,745	15,138,353	7,765,696	6,518,628
Wire rod-----	4,766,635	5,234,571	5,456,419	5,290,947	5,146,047	2,567,159	2,442,885
Wire-----	1,318,052	1,287,363	2,075,234	2,096,403	1,861,082	1,073,503	801,919
Wire products-----	889,928	930,881	3/	3/	3/	3/	3/
Structural shapes & units-----	6,635,764	7,172,010	7,285,607	6,818,015	6,618,407	3,148,303	2,832,694
Rails & related products-----	902,776	744,880	915,880	781,292	741,519	421,933	344,607
Pipe and tube-----	5,599,237	6,133,106	7,393,506	5,963,089	6,701,630	3,409,492	3,734,546
Total-----	89,041,011	94,686,225	101,637,906	95,972,384	96,568,223	47,980,940	42,725,123
Stainless & alloy tool steel:							
Stainless steel:							
Semifinished-----	66,256	131,608	136,035	145,288	97,337	82,566	59,236
Plate-----	128,751	165,718	186,878	179,860	215,229	105,133	95,529
Sheet and strip-----	921,356	1,013,957	1,117,233	1,052,427	1,055,587	520,443	531,895
Bars & certain shapes-----	149,966	156,243	168,429	165,636	166,238	86,911	87,629
Wire rod-----	54,067	64,737	75,482	52,964	122,845	25,592	26,857
Wire-----	39,468	42,012	45,780	43,405	37,929	20,039	18,852
Pipe and tube-----	72,474	59,477	86,044	77,312	75,150	41,558	37,337
Tool steel (all forms)-----	98,380	95,973	103,870	97,021	92,415	54,087	43,150
Total-----	1,530,718	1,729,725	1,919,751	1,813,913	1,862,730	936,329	900,485

1/ Includes tool steel.

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

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

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

Table 6.--Steel mill products and certain fabricated steel products: U.S. imports as a percent of apparent consumption, by product and grade of steel, 1986-1990, and by specific periods, 1990 and 1991

(Percent)

Item	1986	1987	1988	1989	1990	January-June	
						1990	1991
All grades of steel:							
Semifinished-----	59.4	60.1	60.4	60.1	62.5	62.0	55.5
Plate-----	29.4	28.4	20.6	17.7	17.4	14.9	17.3
Sheet and strip-----	17.2	15.6	14.4	13.1	14.0	12.0	15.4
Bars & certain shapes 1/-----	10.9	9.2	9.2	8.7	7.3	6.6	7.3
Wire rod-----	28.3	27.7	27.0	21.5	18.6	21.6	14.7
Wire-----	42.9	41.8	52.5	56.0	57.5	56.2	54.3
Wire products-----	71.5	69.8	3/	3/	3/	3/	3/
Structural shapes & units-----	32.8	30.0	30.0	24.1	15.4	16.7	12.1
Rails & related products-----	30.5	33.0	34.9	41.3	47.1	34.6	38.8
Pipe and tube-----	52.1	44.8	43.9	40.9	38.3	38.7	43.9
Total-----	23.5	21.7	21.1	18.6	18.2	17.0	19.4
Carbon & certain alloy 2/ steel:							
Semifinished-----	60.0	60.7	60.8	60.8	62.9	63.1	55.8
Plate-----	29.9	29.1	20.9	17.9	17.5	15.0	17.4
Sheet and strip-----	17.2	15.6	14.5	13.1	14.0	11.9	15.5
Bars & certain shapes-----	10.5	8.8	8.8	8.2	6.8	6.1	6.7
Wire rod-----	28.2	27.7	27.0	21.3	18.6	21.3	14.4
Wire-----	42.8	41.7	52.6	56.1	57.7	56.3	54.5
Wire products-----	71.5	69.8	3/	3/	3/	3/	3/
Structural shapes & units-----	32.8	30.0	30.0	24.1	15.4	16.7	12.1
Rails & related products-----	30.5	33.0	34.9	41.3	47.1	34.6	38.8
Pipe and tube-----	52.2	44.8	44.0	40.8	38.0	38.5	43.7
Total-----	23.5	21.8	21.2	18.6	18.2	16.9	19.3
Stainless & alloy tool steel:							
Stainless steel:							
Semifinished-----	26.6	43.1	45.9	42.8	62.5	40.0	45.2
Plate-----	12.7	6.7	8.5	9.8	9.6	9.3	12.2
Sheet and strip-----	16.5	12.8	10.6	13.4	14.6	13.5	14.6
Bars & certain shapes-----	25.3	24.3	24.2	26.2	26.8	23.1	29.9
Wire rod-----	34.2	28.3	25.4	41.0	18.8	47.1	44.4
Wire-----	44.4	45.4	45.1	49.1	48.3	46.1	45.9
Pipe and tube-----	45.9	44.5	42.7	48.2	62.8	57.4	66.9
Tool steel (all forms)-----	45.5	42.5	42.5	49.8	42.5	50.6	57.0
Total-----	22.1	19.6	18.7	21.6	21.9	22.0	23.6

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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	274,578	310,503	130,755	202,962
Austria -----	86,486	146,207	48,100	127,374
Brazil -----	1,391,142	1,479,726	583,872	648,317
Czechoslovakia -----	25,693	7,985	1,577	10,540
East Germany -----	55,867	40,670	30,457	0
EC countries-----	5,676,977	5,541,445	2,359,985	2,333,504
Finland -----	216,716	218,907	123,682	90,395
Hungary -----	28,420	31,568	10,695	15,349
Japan -----	3,695,906	3,101,236	1,560,664	1,502,739
Mexico -----	467,605	689,256	335,453	331,583
Peoples Rep of China -----	62,028	58,185	32,793	14,166
Poland -----	72,786	59,850	15,658	54,307
Romania -----	49,451	46,272	10,489	37,971
Republic of South Africa -----	756	1,290	505	177
Korea, Republic of -----	1,191,970	1,517,953	704,487	872,434
Trinidad and Tobago -----	48,028	70,160	37,865	19,187
Venezuela -----	173,642	212,853	78,805	61,561
Yugoslavia -----	8,222	23,764	12,167	19,163
Total-----	13,526,273	13,557,830	6,078,009	6,341,729
Other countries:				
Canada -----	3,218,260	3,140,772	1,662,910	1,460,738
Sweden -----	254,507	295,107	112,151	192,922
Taiwan -----	164,019	211,819	107,024	96,039
Argentina -----	227,866	202,853	103,570	149,354
Turkey -----	211,804	143,581	70,711	29,266
India -----	106,110	108,323	42,050	22,764
New Zealand -----	78,564	106,104	44,079	67,776
Singapore -----	78,918	30,849	20,542	8,864
Indonesia -----	69,344	28,197	21,858	3,834
Philippines -----	213	19,422	12,982	2,850
All others-----	282,607	114,311	56,208	65,612
Total-----	4,692,212	4,401,338	2,254,085	2,100,019
Grand total-----	18,218,485	17,959,168	8,332,094	8,441,748

Table 7.--Steel mill products and certain fabricated steel products: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	126,633	121,748	48,788	76,621
Austria -----	67,871	90,019	36,466	64,517
Brazil -----	473,506	435,980	163,251	230,245
Czechoslovakia -----	8,890	2,590	605	4,077
East Germany -----	18,908	12,352	9,528	-
EC countries-----	2,945,914	2,752,129	1,221,847	1,240,075
Finland -----	91,999	104,734	55,101	42,122
Hungary -----	9,155	8,890	3,291	3,916
Japan -----	2,426,329	2,093,952	1,063,816	1,037,233
Mexico -----	252,029	323,139	168,949	149,609
Peoples Rep of China -----	34,627	33,905	18,187	9,162
Poland -----	26,614	21,186	6,365	16,169
Romania -----	17,374	14,742	3,769	12,434
Republic of South Africa -----	594	1,044	383	200
Korea, Republic of -----	638,311	726,203	365,218	405,562
Trinidad and Tobago -----	14,695	19,653	10,554	5,567
Venezuela -----	61,681	75,805	30,200	24,637
Yugoslavia -----	3,423	9,623	4,990	6,897
Total-----	7,218,553	6,847,694	3,211,308	3,329,043
Other countries:				
Canada -----	1,697,641	1,509,728	826,840	764,940
Sweden -----	278,349	254,885	125,400	137,340
Taiwan -----	107,331	135,854	70,805	63,379
Argentina -----	110,210	98,746	50,062	63,355
Turkey -----	65,996	45,013	22,934	9,483
India -----	45,816	52,088	22,301	14,476
New Zealand -----	41,302	42,416	19,659	25,310
Singapore -----	32,735	18,503	12,191	5,749
Indonesia -----	24,760	11,860	8,986	1,604
Philippines -----	281	7,852	5,154	1,926
All others-----	125,904	69,530	36,709	30,302
Total-----	2,530,325	2,246,475	1,201,041	1,117,864
Grand total-----	9,748,878	9,094,169	4,412,349	4,446,907

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, 1989, 1990, and by specified periods, 1990 and 1991

Item	January-June			
	1989	1990	-----	
			1990	1991
Quantity (Short tons)				

VRA countries:				
Australia -----	205,832	180,756	64,763	122,440
Austria -----	86,486	146,205	48,100	127,374
Brazil -----	724,260	666,423	192,753	313,670
Czechoslovakia -----	25,693	7,985	1,577	10,540
East Germany -----	55,867	40,670	30,457	0
EC-----	4,732,130	4,668,534	1,922,585	1,950,427
Finland -----	182,165	212,524	123,682	71,586
Hungary -----	28,420	31,568	10,695	15,349
Japan -----	3,608,721	3,089,983	1,554,511	1,500,194
Mexico -----	390,447	453,247	250,933	184,769
Peoples Rep of China -----	62,023	58,174	32,781	14,166
Poland -----	72,493	59,762	15,616	54,307
Romania -----	49,451	46,272	10,489	37,971
Republic of South Africa ----	750	1,290	505	177
Korea, Republic of -----	1,125,936	1,517,796	704,416	872,433
Trinidad and Tobago -----	48,028	70,160	37,865	19,187
Venezuela -----	125,160	212,853	78,805	61,561
Yugoslavia -----	8,222	23,764	12,167	19,163
Total-----	11,532,084	11,487,966	5,092,700	5,375,314
Other countries:				
Canada -----	3,098,487	2,925,468	1,575,024	1,391,598
Sweden -----	183,284	218,199	103,546	99,280
Taiwan -----	164,018	211,797	107,002	96,038
Argentina -----	227,011	202,710	103,466	149,354
Turkey -----	211,804	143,581	70,711	29,266
India -----	106,110	108,323	42,050	22,764
New Zealand -----	78,564	106,103	44,079	67,776
Singapore -----	78,918	30,849	20,542	8,864
Indonesia -----	69,344	28,197	21,858	3,834
Philippines -----	213	19,422	12,982	2,850
All others-----	270,837	113,731	55,969	65,608
Total-----	4,488,590	4,108,380	2,157,229	1,937,232
Grand total-----	16,020,674	15,596,346	7,249,929	7,312,546

See footnotes at end of table.

Table 8.--Steel other than semifinished steel: 1/ U.S. imports for consumption, and imports as a percent of apparent U.S. consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	January-June			
	1989	1990	-----	
			1990	1991

Import/consumption ratio (percent)				

VRA countries:				
Australia -----	.2	.2	.1	.3
Austria -----	.1	.2	.1	.3
Brazil -----	.8	.7	.4	.8
Czechoslovakia -----	2/	2/	2/	2/
East Germany -----	.1	2/	.1	2/
EC-----	5.1	5.0	4.1	4.7
Finland -----	.2	.2	.3	.2
Hungary -----	2/	2/	2/	2/
Japan -----	3.9	3.3	3.3	3.6
Mexico -----	.4	.5	.5	.4
Peoples Rep of China -----	.1	.1	.1	2/
Poland -----	.1	.1	2/	.1
Romania -----	.1	2/	2/	.1
Republic of South Africa -----	2/	2/	2/	2/
Korea, Republic of -----	1.2	1.6	1.5	2.1
Trinidad and Tobago -----	.1	.1	.1	2/
Venezuela -----	.1	.2	.2	.1
Yugoslavia -----	2/	2/	2/	2/
Total-----	12.4	12.2	10.9	13.0
Other countries:				
Canada -----	3.3	3.1	3.4	3.4
Sweden -----	.2	.2	.2	.2
Taiwan -----	.2	.2	.2	.2
Argentina -----	.2	.2	.2	.4
Turkey -----	.2	.2	.2	.1
India -----	.1	.1	.1	.1
New Zealand -----	.1	.1	.1	.2
Singapore -----	.1	2/	2/	2/
Indonesia -----	.1	2/	2/	2/
Philippines -----	2/	2/	2/	2/
All others-----	.3	.1	.1	.2
Total-----	4.8	4.4	4.6	4.7
Grand total-----	17.2	16.6	15.5	17.7

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, 1989, 1990, and by specified periods, 1990 and 1991

Source	Unadjusted 1991 Ceiling 2/	1989	1990	January--June	
				1990	1991
Quantity (short tons)					
VRA countries:					
Australia	139,781	68,747	129,746	65,992	80,522
Austria	3/	0	2	0	0
Brazil	849,870	666,882	813,302	391,119	334,648
Czechoslovakia	3/	0	0	0	0
East Germany	3/	0	0	0	0
EC Countries	610,538	944,846	872,912	437,400	383,077
Finland	12,853	34,551	6,383	0	18,808
Hungary	3/	0	0	0	0
Japan	88,367	87,185	11,253	6,153	2,545
Mexico	271,127	77,158	236,008	84,520	146,814
Peoples Rep of China	3/	5	12	12	0
Poland	3/	293	87	42	0
Romania	3/	0	0	0	0
Republic of South Africa	3/	7	0	0	0
Korea, Republic of	272,131	66,033	156	72	1
Trinidad and Tobago	24,250	0	0	0	0
Venezuela	69,288	48,482	0	0	0
Yugoslavia	3/	0	0	0	0
Total	5/	1,994,189	2,069,861	985,310	966,415
Other countries:					
Canada	5/	119,773	215,304	87,886	69,141
Sweden	5/	71,223	76,909	8,604	93,642
Switzerland	5/	31	508	231	1
Argentina	5/	855	143	104	0
Peru	5/	0	47	0	0
Taiwan	5/	0	22	22	1
Chile	5/	0	17	0	0
Norway	5/	5,877	6	6	0
New Zealand	5/	0	1	0	0
Soviet Union	5/	5,860	0	0	0
All others	5/	0	0	0	0
Total	5/	203,619	292,957	96,853	162,785
Grand total	5/	2,197,808	2,362,818	1,082,163	1,129,200

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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	68,747	129,746	65,992	80,522
Austria -----	0	2	0	0
Brazil -----	666,882	813,302	391,119	334,648
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	930,852	852,870	426,863	380,459
Finland -----	34,551	6,383	0	18,808
Hungary -----	0	0	0	2/
Japan -----	86,487	9,574	5,873	1,098
Mexico -----	76,982	235,733	84,302	146,763
Peoples Rep of China -----	5	12	12	0
Poland -----	0	45	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	7	0	0	0
Korea, Republic of -----	66,033	72	72	1
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	48,482	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	1,979,028	2,047,739	974,233	962,298
Other countries:				
Canada -----	83,218	188,925	74,173	54,048
Sweden -----	60,821	64,589	355	86,086
Switzerland -----	31	508	231	2/
Argentina -----	855	143	104	0
Peru -----	0	47	0	0
Taiwan -----	0	21	21	2/
Chile -----	0	17	0	0
Norway -----	5,877	6	6	0
New Zealand -----	0	2/	2/	0
Soviet Union -----	5,860	0	0	0
Total-----	156,662	254,256	74,890	140,134
Grand total-----	2,135,690	2,301,995	1,049,123	1,102,432

See footnote(s) at end of table.

Table 10.--Carbon and certain alloy ^{1/} semifinished steel: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
			Value (thousand dollars)	
VRA countries:				
Australia -----	14,426	26,553	13,645	18,656
Austria -----	0	69	0	0
Brazil -----	166,678	179,191	83,448	98,701
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	244,360	209,194	102,851	91,064
Finland -----	10,811	1,679	0	4,832
Hungary -----	0	0	0	3
Japan -----	24,972	3,965	2,930	328
Mexico -----	19,722	52,447	18,176	33,065
Peoples Rep of China -----	7	12	12	0
Poland -----	0	17	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	18	0	0	0
Korea, Republic of -----	16,133	44	44	0
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	10,072	0	0	0
Yugoslavia -----	0	0	0	0
Total -----	507,199	473,171	221,106	246,649
Other countries:				
Canada -----	27,484	51,160	21,006	15,752
Sweden -----	15,249	13,109	121	18,208
Switzerland -----	155	544	255	7
Argentina -----	336	116	35	0
Peru -----	0	44	0	0
Taiwan -----	0	25	25	5
Chile -----	0	7	0	0
Norway -----	1,288	40	40	0
New Zealand -----	0	7	5	0
Soviet Union -----	843	0	0	0
Total -----	45,355	65,052	21,487	33,972
Grand total -----	552,554	538,223	242,593	280,621

^{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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
			Quantity (short tons)	
VRA countries:				
Australia -----	4,634	3,690	2,296	687
Austria -----	5,851	2,243	1,158	25
Brazil -----	134,769	86,554	15,313	51,668
Czechoslovakia -----	17,274	5,673	0	4,746
East Germany -----	10,342	11,859	7,692	0
EC countries-----	521,489	654,277	255,567	284,927
Finland -----	108,885	111,410	68,329	29,862
Hungary -----	15,300	16,333	5,934	7,997
Japan -----	45,639	32,833	17,157	18,686
Mexico -----	26,919	42,547	21,970	3,626
Peoples Rep of China -----	0	0	0	0
Poland -----	28,960	26,695	2,588	23,690
Romania -----	35,438	31,650	2,225	25,070
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	46,109	36,677	14,957	17,430
Trinidad and Tobago -----	2,204	0	0	0
Venezuela -----	10,033	13,467	3,523	1,402
Yugoslavia -----	0	10,371	4,634	9,745
Total-----	1,013,846	1,086,279	423,343	479,561
Other countries:				
Canada -----	266,881	271,734	135,799	99,486
Sweden -----	78,601	118,078	57,038	50,090
India -----	53,828	62,315	14,626	0
New Zealand -----	5,544	10,818	3,063	6,083
Argentina -----	233	2,817	2,817	7,696
Gabon -----	0	17	17	0
Antigua -----	0	12	0	0
Soviet Union -----	0	0	0	7,781
Turkey -----	193	0	0	0
Indonesia -----	267	0	0	0
All others-----	2/	0	0	0
Total-----	405,547	465,791	213,360	171,136
Grand total-----	1,419,393	1,552,070	636,703	650,697

See footnote(s) at end of table.

Table 11.--Carbon and certain alloy 1/ steel plate: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	2,371	1,566	1,027	291
Austria -----	2,465	947	619	49
Brazil -----	44,586	30,212	5,581	18,660
Czechoslovakia -----	5,498	1,595	0	1,330
East Germany -----	3,312	3,431	2,204	0
EC countries -----	215,157	241,057	99,624	100,441
Finland -----	39,347	39,135	23,667	10,294
Hungary -----	4,847	4,597	1,821	1,956
Japan -----	27,889	22,038	11,569	11,999
Mexico -----	10,816	14,222	7,293	1,192
Peoples Rep of China -----	0	0	0	0
Poland -----	9,915	8,134	845	6,893
Romania -----	11,827	9,354	708	7,496
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	17,725	11,850	5,265	5,252
Trinidad and Tobago -----	630	0	0	0
Venezuela -----	3,172	3,309	876	621
Yugoslavia -----	0	3,654	1,834	2,595
Total-----	399,557	395,101	162,933	169,069
Other countries:				
Canada -----	109,513	97,947	51,019	36,918
Sweden -----	39,192	51,528	25,276	22,211
India -----	17,706	20,630	5,137	0
New Zealand -----	1,671	2,725	844	1,477
Argentina -----	81	678	678	1,451
Gabon -----	0	11	11	0
Antigua -----	0	17	0	0
Soviet Union -----	0	0	0	1,948
Turkey -----	88	0	0	0
Indonesia -----	125	0	0	0
All others-----	6	0	0	0
Total-----	168,382	173,536	82,965	64,005
Grand total-----	567,939	568,637	245,898	233,074

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

2/ Less than 0.5 short ton.

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

Table 12.--Carbon and certain alloy 1/2 steel sheet and strip: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	173,844	150,452	47,161	107,870
Austria -----	44,936	96,064	19,859	50,994
Brazil -----	374,903	274,960	64,016	119,224
Czechoslovakia -----	10	0	0	23
East Germany -----	26,330	15,024	13,927	0
EC countries -----	1,968,270	2,085,036	674,374	849,401
Finland -----	56,876	78,656	43,011	33,438
Hungary -----	11,903	15,187	4,734	7,320
Japan -----	2,050,376	1,833,821	926,372	830,288
Mexico -----	117,694	129,930	80,098	47,519
Peoples Rep of China -----	456	84	84	0
Poland -----	0	0	0	0
Romania -----	52	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	375,727	850,043	363,973	492,701
Trinidad and Tobago -----	0	532	0	9
Venezuela -----	59,756	82,810	18,938	14,471
Yugoslavia -----	32	917	434	239
Total-----	5,261,165	5,613,516	2,256,981	2,553,497
Other countries:				
Canada -----	858,289	807,843	436,702	382,090
Taiwan -----	48,988	94,953	52,294	43,656
New Zealand -----	61,556	92,303	39,206	60,558
Argentina -----	27,348	48,399	14,847	67,438
Sweden -----	21,448	32,381	11,153	17,434
Norway -----	20,341	14,291	8,126	16,961
Philippines -----	0	6,561	6,561	0
Switzerland -----	46	632	140	550
Antigua -----	0	451	394	7
Colombia -----	0	381	381	0
All others-----	3,664	448	296	346
Total-----	1,041,680	1,098,643	570,100	589,040
Grand total-----	6,302,845	6,712,159	2,827,081	3,142,537

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, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
			Value (thousand dollars)	
VRA countries:				
Australia -----	96,817	80,384	26,444	53,034
Austria -----	18,681	34,421	7,968	16,164
Brazil -----	149,482	95,336	24,675	45,904
Czechoslovakia -----	3	0	0	5
East Germany -----	9,790	5,395	5,030	0
EC countries-----	951,315	919,785	325,497	370,790
Finland -----	22,393	26,096	13,225	13,147
Hungary -----	3,739	4,208	1,442	1,860
Japan -----	1,198,546	1,065,285	552,882	474,381
Mexico -----	69,852	76,165	48,675	28,323
Peoples Rep of China -----	211	137	137	0
Poland -----	0	0	0	0
Romania -----	36	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	163,713	318,809	153,802	180,517
Trinidad and Tobago -----	0	252	0	3
Venezuela -----	26,436	30,280	8,428	4,926
Yugoslavia -----	17	540	240	208
Total-----	2,711,031	2,657,093	1,168,445	1,189,262
Other countries:				
Canada -----	403,293	358,257	198,551	171,829
Taiwan -----	22,887	47,025	26,549	20,560
New Zealand -----	27,435	36,404	16,672	22,752
Argentina -----	14,390	19,554	5,786	23,851
Sweden -----	28,193	30,770	13,245	17,148
Norway -----	12,185	8,452	4,900	5,764
Philippines -----	0	2,334	2,334	0
Switzerland -----	80	688	164	690
Antigua -----	0	261	216	16
Colombia -----	0	222	222	0
All others-----	2,195	347	234	126
Total-----	510,658	504,314	268,873	262,736
Grand total-----	3,221,689	3,161,407	1,437,318	1,451,998

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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	1,433	996	89	1,329
Austria -----	541	355	213	211
Brazil -----	50,035	84,587	30,013	52,634
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	323,125	304,883	113,500	108,565
Finland -----	4,080	2,795	1,645	774
Hungary -----	0	0	0	0
Japan -----	131,880	92,407	40,969	43,937
Mexico -----	16,066	13,193	4,974	6,116
Peoples Rep of China -----	3,916	5,516	2,301	1,595
Poland -----	2,648	2,212	1,146	383
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	62,652	39,102	23,451	17,513
Trinidad and Tobago -----	16,501	31,873	17,389	6,035
Venezuela -----	10,391	32,482	13,660	7,849
Yugoslavia -----	0	0	0	0
Total-----	623,268	610,401	249,350	246,941
Other countries:				
Canada -----	398,631	339,393	180,817	158,272
Turkey -----	109,153	31,970	14,362	7,285
Argentina -----	48,289	22,515	14,369	5,966
India -----	10,492	9,639	7,145	3,325
Colombia -----	7	6,748	0	12,055
Sweden -----	3,385	4,759	2,264	2,343
Indonesia -----	3,133	4,500	4,257	16
Malaysia -----	1,847	2,300	730	574
Singapore -----	20,159	1,883	1,861	0
Taiwan -----	11,752	445	369	155
All others -----	34,190	700	366	69
Total-----	641,038	424,852	226,540	190,060
Grand total-----	1,264,306	1,035,253	475,890	437,001

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, 1989, 1990, and by specified periods,
1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	669	349	32	527
Austria -----	1,024	876	523	420
Brazil -----	22,335	32,948	11,770	19,971
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	169,448	156,915	61,196	60,403
Finland -----	3,241	2,847	1,802	699
Hungary -----	0	0	0	0
Japan -----	73,081	59,060	27,312	29,430
Mexico -----	5,814	4,441	1,922	2,119
Peoples Rep of China -----	1,526	2,544	1,111	725
Poland -----	1,517	1,418	705	312
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	19,087	12,671	7,747	5,121
Trinidad and Tobago -----	5,232	8,785	4,743	2,019
Venezuela -----	3,868	9,546	4,338	3,656
Yugoslavia -----	0	0	0	0
Total-----	306,842	292,400	123,201	125,402
Other countries:				
Canada -----	173,249	146,887	79,800	70,693
Turkey -----	32,827	11,117	5,461	3,100
Argentina -----	18,563	8,873	5,547	2,280
India -----	4,650	4,806	3,526	1,831
Colombia -----	11	1,782	0	3,112
Sweden -----	3,160	7,100	3,523	3,718
Indonesia -----	862	1,264	1,198	8
Malaysia -----	733	883	292	218
Singapore -----	7,950	544	536	0
Taiwan -----	4,724	268	203	146
All others-----	9,549	615	380	100
Total-----	256,278	184,139	100,466	85,206
Grand total-----	563,120	476,539	223,667	210,608

^{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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	10,783	9,962	6,376	9,584
Austria -----	1,108	0	0	0
Brazil -----	57,858	70,254	27,840	6,560
Czechoslovakia -----	2,197	0	0	0
East Germany -----	12,583	11,934	7,523	0
EC countries-----	212,925	147,053	92,986	34,944
Finland -----	108	0	0	0
Hungary -----	67	0	0	0
Japan -----	201,891	182,818	89,289	95,867
Mexico -----	32,373	30,162	21,455	0
Peoples Rep of China -----	25	79	0	45
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa ----	0	0	0	0
Korea, Republic of -----	176	18	2	0
Trinidad and Tobago -----	29,203	36,782	19,596	13,121
Venezuela -----	2,065	16,071	8,763	3,249
Yugoslavia -----	0	0	0	0
Total-----	563,362	505,133	273,830	163,370
Other countries:				
Canada -----	400,938	344,955	218,290	165,863
Turkey -----	75,596	89,832	45,210	16,097
Sweden -----	15,095	8,556	3,156	5,290
Singapore -----	29,776	5,197	5,197	0
Taiwan -----	10,071	1,471	772	286
Argentina -----	276	877	877	84
New Zealand -----	0	87	0	0
Switzerland -----	0	3	0	12
Egypt -----	3,157	0	0	0
Indonesia -----	29,923	0	0	0
All others-----	220	0	0	19
Total-----	565,052	450,978	273,502	187,651
Grand total-----	1,128,414	956,111	547,332	351,021

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, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
			Value (thousand dollars)	
VRA countries:				
Australia -----	2,439	2,605	1,665	2,505
Austria -----	297	0	0	0
Brazil -----	16,652	18,309	7,410	1,748
Czechoslovakia -----	549	0	0	0
East Germany -----	3,014	2,762	1,754	0
EC countries-----	82,681	55,449	32,897	14,698
Finland -----	35	0	0	0
Hungary -----	30	0	0	0
Japan -----	96,067	83,354	41,136	43,918
Mexico -----	8,234	8,000	5,809	0
Peoples Rep of China -----	7	34	0	20
Poland -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa ----	0	0	0	0
Korea, Republic of -----	112	11	1	0
Trinidad and Tobago -----	8,770	10,312	5,539	3,538
Venezuela -----	594	3,996	2,207	861
Yugoslavia -----	0	0	0	0
Total-----	219,481	184,832	98,418	67,288
Other countries:				
Canada -----	145,073	122,558	77,735	54,544
Turkey -----	20,896	23,185	11,652	4,086
Sweden -----	12,842	7,389	2,840	4,288
Singapore -----	9,390	1,678	1,678	0
Taiwan -----	4,247	555	290	131
Argentina -----	137	378	378	30
New Zealand -----	0	15	0	0
Switzerland -----	0	1	0	22
Egypt -----	920	0	0	0
Indonesia -----	8,363	0	0	0
All others-----	167	0	0	9
Total-----	202,035	155,759	94,573	63,110
Grand total-----	421,516	340,591	192,991	130,398

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

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

Table 15.--Carbon and certain alloy 1/ steel wire: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	4,189	4,849	2,405	2,393
Austria -----	1,782	1,612	707	400
Brazil -----	9,397	8,504	4,583	7,028
Czechoslovakia -----	24	0	0	0
East Germany -----	0	0	0	0
EC countries-----	139,816	115,313	60,045	43,621
Finland -----	368	660	544	0
Hungary -----	0	0	0	0
Japan -----	67,924	63,483	33,685	30,841
Mexico -----	1,407	3,259	1,368	1,850
Peoples Rep of China -----	12,165	8,228	5,181	3,501
Poland -----	201	122	44	81
Romania -----	0	0	0	0
Republic of South Africa ----	0	0	0	0
Korea, Republic of -----	7,512	4,003	2,467	2,762
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	5,906	6,092	2,686	3,415
Yugoslavia -----	0	0	0	0
Total-----	250,691	216,125	113,715	95,892
Other countries:				
Canada -----	183,779	160,741	96,082	76,151
Argentina -----	11,276	11,209	6,597	2,058
Taiwan -----	3,548	8,060	3,231	5,091
Sweden -----	7,601	7,240	3,660	4,070
India -----	5,266	6,759	3,467	4,427
Norway -----	1,328	996	976	0
Chile -----	3,630	888	556	342
Switzerland -----	1,653	679	415	3
Indonesia -----	131	329	211	202
Dominican Republic -----	376	307	222	214
All others-----	3,705	673	283	252
Total-----	222,293	197,881	115,700	92,810
Grand total-----	472,984	414,006	229,415	188,702

See footnote(s) at end of table.

Table 15.--Carbon and certain alloy ^{1/} steel wire: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	1,844	2,060	1,003	1,058
Austria -----	2,976	3,178	1,464	967
Brazil -----	5,122	4,409	2,369	3,549
Czechoslovakia -----	16	0	0	0
East Germany -----	0	0	0	0
EC countries -----	126,019	109,254	57,535	45,385
Finland -----	198	396	328	0
Hungary -----	0	0	0	0
Japan -----	57,930	56,537	29,695	25,451
Mexico -----	914	1,991	845	1,119
Peoples Rep of China -----	5,530	3,797	2,350	1,653
Poland -----	129	73	32	53
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	4,890	3,162	1,747	1,961
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	3,410	3,330	1,458	1,809
Yugoslavia -----	0	0	0	0
Total-----	208,978	188,187	98,826	83,005
Other countries:				
Canada -----	112,002	97,290	59,212	45,746
Argentina -----	5,051	4,983	2,940	951
Taiwan -----	3,186	4,897	2,180	2,999
Sweden -----	9,482	8,990	4,443	4,776
India -----	1,974	2,752	1,283	2,587
Norway -----	1,095	773	761	0
Chile -----	2,041	524	344	183
Switzerland -----	1,062	437	258	49
Indonesia -----	64	150	92	87
Dominican Republic -----	106	32	20	29
All others-----	1,961	487	156	160
Total-----	138,024	121,315	71,689	57,567
Grand total-----	347,002	309,502	170,515	140,572

^{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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	20	37	5	3
Austria -----	4,043	3,158	1,800	864
Brazil -----	10,401	12,446	6,953	5,903
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	86,677	78,806	43,628	31,344
Finland -----	51	2	2/	2/
Hungary -----	42	18	18	0
Japan -----	52,650	59,622	30,226	23,339
Mexico -----	24,461	34,023	16,541	14,644
Peoples Rep of China -----	42,981	42,136	24,250	7,754
Poland -----	15,255	9,780	5,697	3,993
Romania -----	0	0	0	0
Republic of South Africa -----	730	0	0	0
Korea, Republic of -----	178,804	185,686	100,945	80,371
Trinidad and Tobago -----	0	295	274	0
Venezuela -----	16,639	13,415	5,970	3,135
Yugoslavia -----	5,961	5,188	3,134	1,259
Total-----	438,715	444,612	239,441	172,609
Other countries:				
Canada -----	114,763	98,435	63,966	47,584
Indonesia -----	27,489	22,699	16,873	3,616
Taiwan -----	17,331	14,687	7,925	4,521
Argentina -----	16,702	14,584	8,222	2,708
Turkey -----	10,713	12,540	8,177	2,562
United Arab Emirates -----	14,854	10,333	6,413	2,857
Chile -----	8,642	7,333	3,766	1,439
Thailand -----	20,808	6,188	3,883	96
Oman -----	2,031	5,706	2,859	3,260
Saudi Arabia -----	8,784	5,230	3,704	582
All others-----	22,771	17,977	10,249	6,519
Total-----	264,888	215,712	136,037	75,744
Grand total-----	703,603	660,324	375,478	248,353

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, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
			Value (thousand dollars)	
VRA countries:				
Australia -----	37	83	23	13
Austria -----	8,634	8,029	4,701	2,381
Brazil -----	6,038	6,663	3,754	3,159
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	135,555	146,208	81,094	59,544
Finland -----	67	8	6	4
Hungary -----	23	7	7	0
Japan -----	97,473	108,050	54,409	46,036
Mexico -----	17,781	26,856	13,321	11,352
Peoples Rep of China -----	25,832	24,600	13,643	5,562
Poland -----	5,354	3,967	2,199	1,525
Romania -----	0	0	0	0
Republic of South Africa -----	558	0	0	0
Korea, Republic of -----	158,567	161,962	87,775	67,141
Trinidad and Tobago -----	0	116	107	0
Venezuela -----	5,224	5,173	2,287	1,116
Yugoslavia -----	2,456	2,111	1,205	488
Total-----	463,599	493,833	264,531	198,321
Other countries:				
Canada -----	93,747	83,213	52,168	38,644
Indonesia -----	11,595	10,045	7,408	1,509
Taiwan -----	19,677	16,622	8,622	5,530
Argentina -----	8,930	7,665	4,372	1,318
Turkey -----	5,485	6,588	4,447	799
United Arab Emirates -----	5,992	5,102	3,380	1,269
Chile -----	4,476	4,202	2,119	909
Thailand -----	9,521	3,459	2,289	111
Oman -----	871	2,509	1,314	1,120
Saudi Arabia -----	3,255	2,227	1,565	242
All others-----	25,782	22,540	12,222	9,390
Total-----	189,331	164,172	99,906	60,841
Grand total-----	652,930	658,005	364,437	259,162

^{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 17.--Carbon and certain alloy 1/ steel structural shapes and units: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	312	41	2/	3
Austria -----	684	274	152	104
Brazil -----	11,638	6,509	2,722	4,301
Czechoslovakia -----	0	0	0	0
East Germany -----	92	0	0	0
EC countries -----	790,065	537,513	270,248	145,450
Finland -----	2,669	12	2/	7
Hungary -----	0	0	0	0
Japan -----	373,632	114,932	64,969	21,780
Mexico -----	17,588	36,696	16,387	8,045
Peoples Rep of China -----	874	1,477	804	478
Poland -----	20,441	15,062	3,818	24,309
Romania -----	168	113	38	62
Republic of South Africa -----	0	0	0	177
Korea, Republic of -----	81,616	8,147	1,920	8,928
Trinidad and Tobago -----	120	678	606	22
Venezuela -----	112	183	84	102
Yugoslavia -----	0	0	0	0
Total -----	1,300,011	721,637	361,748	213,768
Other countries:				
Canada -----	249,815	278,669	149,513	122,933
Taiwan -----	6,899	5,365	3,655	523
Argentina -----	30,494	5,353	4,825	4,439
Singapore -----	1,102	3,741	3,116	204
Sweden -----	991	1,493	990	272
New Zealand -----	8,945	1,448	1,197	322
Norway -----	31,897	1,121	2/	15
India -----	1,743	553	342	244
Switzerland -----	153	489	286	27
Israel -----	195	365	21	0
All others -----	8,118	361	244	609
Total -----	340,352	298,958	164,189	129,588
Grand total -----	1,640,363	1,020,595	525,937	343,356

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, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	902	107	19	15
Austria -----	1,780	1,451	713	501
Brazil -----	5,564	3,255	1,985	2,171
Czechoslovakia -----	0	0	0	0
East Germany -----	28	0	0	0
EC countries -----	308,492	208,048	103,189	70,781
Finland -----	4,129	38	3	9
Hungary -----	0	0	0	0
Japan -----	159,837	58,791	31,658	18,157
Mexico -----	8,817	20,750	12,525	4,112
Peoples Rep of China -----	669	1,314	599	364
Poland -----	6,446	4,249	1,060	6,212
Romania -----	73	42	14	39
Republic of South Africa -----	0	0	0	200
Korea, Republic of -----	43,704	6,405	1,677	7,466
Trinidad and Tobago -----	63	188	166	7
Venezuela -----	83	120	27	94
Yugoslavia -----	0	0	0	0
Total -----	540,587	304,758	153,635	110,128
Other countries:				
Canada -----	154,010	152,709	82,515	64,296
Taiwan -----	6,383	4,170	2,986	496
Argentina -----	10,137	1,910	1,760	1,209
Singapore -----	1,013	4,822	3,910	342
Sweden -----	2,805	3,238	2,149	807
New Zealand -----	10,505	1,848	1,464	376
Norway -----	10,401	202	5	130
India -----	1,195	466	288	189
Switzerland -----	306	1,607	1,189	179
Israel -----	865	427	53	0
All others -----	2,723	365	146	238
Total -----	200,343	171,764	96,465	68,262
Grand total -----	740,930	476,522	250,100	178,390

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

^{2/} Less than 0.5 short ton.

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

Table 18.--Carbon and certain alloy 1/ steel rails and related products: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
			Quantity (short tons)	
VRA countries:				
Australia -----	3,567	3,657	2,358	559
Austria -----	5,805	6,319	2,715	1,695
Brazil -----	2,942	1,336	612	703
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	53,518	44,423	20,469	19,609
Finland -----	0	3	1	0
Hungary -----	0	30	10	32
Japan -----	83,624	87,191	52,066	56,137
Mexico -----	380	96	32	60
Peoples Rep of China -----	455	94	53	55
Poland -----	105	0	0	0
Romania -----	0	0	0	0
Republic of South Africa ----	20	1,290	505	0
Korea, Republic of -----	6,670	4,025	1,439	2,144
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	157,086	148,464	80,260	80,994
Other countries:				
Canada -----	151,966	200,252	65,352	49,060
Sweden -----	876	331	294	24
Taiwan -----	417	246	124	136
Turkey -----	22	86	86	0
Colombia -----	77	73	21	59
Israel -----	20	23	0	2
Netherlands Antilles -----	0	20	0	21
Chile -----	48	15	15	0
United Arab Emirates -----	0	15	0	0
Switzerland -----	4	11	10	311
All others-----	12,468	18	17	2,999
Total-----	165,898	201,090	65,919	52,612
Grand total-----	322,984	349,554	146,179	133,606

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, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	3,841	3,664	2,348	436
Austria -----	3,284	4,696	2,156	1,372
Brazil -----	2,544	1,128	509	534
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	28,589	26,170	11,934	11,956
Finland -----	0	42	18	0
Hungary -----	0	78	22	98
Japan -----	46,028	48,194	28,712	30,469
Mexico -----	380	163	50	86
Peoples Rep of China -----	221	67	43	34
Poland -----	49	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	14	1,044	383	0
Korea, Republic of -----	3,408	2,141	915	1,276
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	88,358	87,387	47,090	46,261
Other countries:				
Canada -----	59,757	47,317	16,098	18,370
Sweden -----	600	512	441	58
Taiwan -----	797	561	259	356
Turkey -----	13	58	58	0
Colombia -----	258	271	75	247
Israel -----	25	12	0	6
Netherlands Antilles -----	0	29	0	19
Chile -----	25	8	8	0
United Arab Emirates -----	0	10	0	0
Switzerland -----	61	71	44	200
All others-----	2,107	51	44	650
Total-----	63,643	48,900	17,027	19,906
Grand total-----	152,001	136,287	64,117	66,167

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 19.--Carbon and certain alloy 1/ steel pipe and tube: U.S. imports for U.S. imports for consumption, by specified sources 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	7,022	6,529	3,791	6
Austria -----	17,756	32,169	19,919	70,097
Brazil -----	64,098	111,315	37,836	61,146
Czechoslovakia -----	6,156	2,312	1,577	5,537
East Germany -----	6,520	1,850	1,312	0
EC countries-----	504,008	573,065	329,826	364,475
Finland -----	6,000	3,187	2,557	1,865
Hungary -----	1,109	0	0	0
Japan -----	507,942	540,343	260,861	335,901
Mexico -----	138,081	140,133	69,456	90,752
Peoples Rep of China -----	973	0	0	422
Poland -----	4,658	5,603	2,175	1,651
Romania -----	13,778	14,509	8,226	12,838
Republic of South Africa ----	0	0	0	0
Korea, Republic of -----	353,671	374,528	187,614	239,600
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	20,192	48,020	25,068	27,839
Yugoslavia -----	2,226	7,214	3,964	7,831
Total-----	1,654,190	1,860,777	954,182	1,219,960
Other countries:				
Canada -----	451,459	400,098	216,510	274,880
Argentina -----	89,608	96,895	50,854	55,964
Taiwan -----	60,719	77,484	34,394	35,712
Singapore -----	27,492	18,962	9,845	7,997
India -----	25,404	18,466	10,787	11,633
Sweden -----	21,424	16,887	10,364	6,115
Israel -----	9,397	13,819	10,175	5,046
Philippines -----	37	12,650	6,276	2,850
Thailand -----	34,384	11,312	0	1,139
Turkey -----	16,107	9,010	2,857	3,323
All others-----	45,323	12,408	6,767	6,993
Total-----	781,354	687,991	358,829	411,652
Grand total-----	2,435,544	2,548,768	1,313,011	1,631,612

See footnote(s) at end of table.

Table 19.--Carbon and certain alloy $\frac{1}{2}$ steel pipe and tube: U.S. imports for U.S. imports for consumption, by specified sources 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
IRA countries:				
Australia -----	3,151	3,059	1,903	2
Austria -----	13,811	20,476	11,507	32,802
Brazil -----	36,362	45,081	15,369	28,561
Czechoslovakia -----	2,779	994	605	2,493
East Germany -----	2,763	756	532	0
EC countries -----	330,377	363,826	195,223	245,664
Finland -----	2,987	1,719	1,315	1,038
Hungary -----	517	0	0	0
Japan -----	378,193	368,363	175,624	243,102
Mexico -----	74,372	72,723	35,785	47,574
Peoples Rep of China -----	360	0	0	212
Poland -----	2,105	2,372	950	640
Romania -----	5,411	5,346	3,047	4,900
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	176,982	174,638	89,630	111,258
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	8,737	19,623	10,422	11,427
Yugoslavia -----	946	3,154	1,711	3,370
Total -----	1,039,853	1,082,130	543,623	733,043
Other countries:				
Canada -----	281,447	243,046	132,571	193,699
Argentina -----	51,423	54,467	28,452	31,598
Taiwan -----	28,827	33,418	15,559	15,442
Singapore -----	13,215	8,288	4,493	3,458
India -----	11,846	7,560	4,232	4,973
Sweden -----	23,653	19,510	12,342	8,043
Israel -----	4,759	6,168	4,711	2,000
Philippines -----	15	5,150	2,645	1,926
Thailand -----	14,718	4,135	0	439
Turkey -----	6,678	3,962	1,301	1,498
All others -----	20,466	7,807	4,234	3,399
Total -----	457,047	393,511	210,540	266,475
Grand total -----	1,496,900	1,475,641	754,163	999,518

/ 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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	274,550	309,960	130,473	202,955
Austria -----	82,507	142,198	46,523	124,391
Brazil -----	1,382,924	1,469,768	581,008	643,814
Czechoslovakia -----	25,660	7,985	1,577	10,306
East Germany -----	55,867	40,668	30,455	0
EC countries-----	5,530,746	5,393,240	2,287,506	2,262,796
Finland -----	213,588	203,107	116,088	84,756
Hungary -----	28,420	31,568	10,695	15,349
Japan -----	3,602,047	3,017,024	1,521,467	1,457,874
Mexico -----	451,951	665,773	316,582	319,376
Peoples Rep of China -----	61,850	57,626	32,684	13,852
Poland -----	72,268	59,519	15,467	54,106
Romania -----	49,436	46,272	10,489	37,971
Republic of South Africa -----	756	1,290	505	177
Korea, Republic of -----	1,178,972	1,502,300	696,840	861,449
Trinidad and Tobago -----	48,028	70,160	37,865	19,187
Venezuela -----	173,574	212,539	78,693	61,463
Yugoslavia -----	8,219	23,691	12,167	19,075
Total-----	13,241,363	13,254,688	5,927,084	6,188,897
Other countries:				
Canada -----	3,159,739	3,091,045	1,637,203	1,430,367
Sweden -----	212,323	256,295	90,457	172,771
Argentina -----	227,661	202,795	103,513	149,352
Taiwan -----	159,725	202,732	102,785	90,080
Turkey -----	211,804	143,581	70,711	29,266
New Zealand -----	78,564	106,095	44,079	67,776
India -----	104,994	102,637	39,592	20,746
Singapore -----	78,598	29,783	20,018	8,201
Indonesia -----	69,342	28,197	21,858	3,834
Philippines -----	213	19,356	12,982	2,850
All others-----	281,803	113,642	55,864	65,185
Total-----	4,584,766	4,296,158	2,199,062	2,040,428
Grand total-----	17,826,129	17,550,846	8,126,146	8,229,325

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, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	126,499	120,429	48,110	76,537
Austria -----	52,952	74,143	29,650	54,656
Brazil -----	455,362	416,532	156,870	222,959
Czechoslovakia -----	8,844	2,590	605	3,828
East Germany -----	18,908	12,344	9,520	0
EC countries -----	2,591,992	2,435,907	1,071,039	1,070,727
Finland -----	83,209	71,959	40,363	30,023
Hungary -----	9,155	8,890	3,291	3,916
Japan -----	2,160,017	1,873,636	955,927	923,272
Mexico -----	216,702	277,758	144,402	128,942
Peoples Rep of China -----	34,364	32,505	17,896	8,570
Poland -----	25,514	20,230	5,791	15,635
Romania -----	17,347	14,742	3,769	12,434
Republic of South Africa -----	590	1,044	383	200
Korea, Republic of -----	604,322	691,693	348,604	379,992
Trinidad and Tobago -----	14,695	19,653	10,554	5,567
Venezuela -----	61,595	75,377	30,043	24,510
Yugoslavia -----	3,419	9,459	4,990	6,662
Total-----	6,485,486	6,158,891	2,881,807	2,968,430
Other countries:				
Canada -----	1,559,576	1,400,384	770,674	710,492
Sweden -----	141,425	147,237	67,379	82,034
Argentina -----	109,850	98,635	49,959	63,338
Taiwan -----	90,727	107,541	56,674	45,665
Turkey -----	65,996	45,013	22,934	9,483
New Zealand -----	41,302	42,398	19,659	25,310
India -----	42,851	39,598	16,749	10,278
Singapore -----	31,647	15,333	10,618	3,800
Indonesia -----	24,707	11,860	8,986	1,604
Philippines -----	281	7,660	5,154	1,926
All others-----	122,731	66,807	35,210	28,148
Total-----	2,231,093	1,982,466	1,063,996	982,078
Grand total-----	8,716,579	8,141,357	3,945,803	3,950,508

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 21.--Stainless semifinished steel: U.S. imports for consumption, by specified sources 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	0	0	0	0
Brazil -----	0	0	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	13,995	20,041	10,537	2,618
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	698	1,679	280	1,447
Mexico -----	176	275	218	51
Peoples Rep of China -----	0	0	0	0
Poland -----	293	42	42	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	0	85	0	1/
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	15,162	22,122	11,077	4,116
Other countries:				
Canada -----	36,556	26,379	13,713	15,092
Sweden -----	10,403	12,320	8,250	7,556
Taiwan -----	1/	1/	1/	1/
Switzerland -----	0	0	0	1/
Israel -----	1/	0	0	1/
Total-----	46,959	38,699	21,963	22,648
Grand total-----	62,121	60,821	33,040	26,764

See footnote(s) at end of table.

Table 21.--Stainless semifinished steel: U.S. imports for consumption, by specified sources 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	0	0	0	0
Brazil -----	0	0	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	12,572	18,089	8,832	5,195
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	1,413	2,134	451	1,864
Mexico -----	448	656	473	162
Peoples Rep of China -----	0	0	0	0
Poland -----	532	95	95	0
Romania -----	0	0	0	0
Republic of South Africa ----	0	0	0	0
Korea, Republic of -----	0	86	0	8
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	14,965	21,060	9,851	7,229
Other countries:				
Canada -----	68,918	37,599	19,672	20,685
Sweden -----	23,075	20,774	13,451	12,380
Taiwan -----	16	8	8	14
Switzerland -----	0	0	0	4
Israel -----	5	0	0	4
Hong Kong -----	2	0	0	0
Total-----	92,016	58,381	33,131	33,087
Grand total-----	106,981	79,441	42,982	40,316

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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	197	126	69	284
Brazil -----	0	0	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	12,024	9,271	4,455	5,510
Finland -----	1,746	6,444	3,635	3,244
Hungary -----	0	0	0	0
Japan -----	1,542	2,576	760	1,027
Mexico -----	4	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 -----	10	545	152	985
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total -----	15,523	18,962	9,071	11,050
Other countries:				
Sweden -----	2,014	1,510	652	375
Canada -----	177	178	61	239
Total -----	2,191	1,688	713	614
Grand total -----	17,714	20,650	9,784	11,664

Table 22.--Stainless steel plate: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
			Value (thousand dollars)	
VRA countries:				
Australia -----	0	0	0	0
Austria -----	915	596	244	1,075
Brazil -----	0	0	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	35,694	22,315	9,967	12,983
Finland -----	4,883	13,224	7,157	7,068
Hungary -----	0	0	0	0
Japan -----	4,544	5,706	1,876	2,335
Mexico -----	3	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 -----	24	891	242	1,633
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	46,063	42,732	19,486	25,094
Other countries:				
Sweden -----	5,970	4,193	1,840	1,275
Canada -----	425	314	112	435
Total-----	6,395	4,507	1,952	1,710
Grand total-----	52,458	47,239	21,438	26,804

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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	9	0	0	0
Austria -----	16	13	3	33
Brazil -----	0	2,239	39	79
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	63,478	62,089	26,108	34,485
Finland -----	1,376	9,355	3,958	2,216
Hungary -----	0	0	0	0
Japan -----	45,581	40,791	20,539	21,406
Mexico -----	14,968	22,362	10,680	12,002
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 -----	6,875	6,768	3,631	2,417
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	20	0	0
Total-----	132,303	143,637	64,958	72,638
Other countries:				
Sweden -----	5,978	5,529	3,053	3,417
India -----	0	2,773	1,237	325
Canada -----	2,234	2,370	1,244	1,272
Singapore -----	4	28	0	1
Switzerland -----	0	5	0	7
Total-----	8,216	10,705	5,534	5,021
Grand total-----	140,519	154,342	70,492	77,659

See footnote(s) at end of table.

Table 23.--Stainless steel sheet and strip: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
RA countries:				
Australia -----	12	0	0	0
Austria -----	79	59	13	173
Brazil -----	0	3,846	58	132
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	138,830	119,032	50,811	69,102
Finland -----	3,850	19,548	7,578	4,841
Hungary -----	0	0	0	0
Japan, -----	95,498	79,396	42,070	39,832
Mexico -----	33,463	41,946	20,619	20,022
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 -----	16,561	11,926	6,309	4,503
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	32	0	0
Total-----	288,293	275,785	127,458	138,605
Other countries:				
Sweden -----	21,181	18,300	10,167	11,491
India -----	0	5,235	2,267	522
Canada -----	7,123	6,291	3,297	3,079
Singapore -----	17	124	0	2
Switzerland -----	0	100	0	39
Total-----	28,321	30,050	15,731	15,133
Grand total-----	316,614	305,835	143,189	153,738

/ Less than 0.5 short ton.

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

Table 24.--Stainless steel bars and shapes: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	0	4	0	0
Austria -----	200	130	44	55
Brazil -----	4,497	3,318	1,367	1,500
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	10,400	10,817	5,194	7,284
Finland -----	0	1/	1/	0
Hungary -----	0	0	0	0
Japan -----	20,286	17,777	7,998	9,804
Mexico -----	18	19	19	15
Peoples Rep of China -----	7	0	0	0
Poland -----	0	0	0	0
Romania -----	15	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	3,165	2,610	1,437	1,957
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	53	0	88
Total-----	38,588	34,728	16,059	20,703
Other countries:				
Canada -----	1,711	5,374	2,153	2,992
Sweden -----	2,727	3,308	1,595	1,747
India -----	214	1,084	284	659
Switzerland -----	13	15	11	45
Argentina -----	93	14	14	0
Taiwan -----	59	3	3	42
Singapore -----	1/	0	0	0
Indonesia -----	2	0	0	0
Jordan -----	10	0	0	0
Israel -----	1/	0	0	1/
Total-----	4,829	9,798	4,060	5,485
Grand total-----	43,417	44,526	20,119	26,188

See footnote(s) at end of table.

Table 24.--Stainless steel bars and shapes: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
			Value (thousand dollars)	
VRA countries:				
Australia -----	0	11	0	0
Austria -----	527	378	131	142
Brazil -----	10,550	7,704	3,366	3,141
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	30,443	28,981	14,271	19,674
Finland -----	0	2	2	0
Hungary -----	0	0	0	0
Japan -----	63,821	49,418	23,468	25,208
Mexico -----	33	39	39	23
Peoples Rep of China -----	32	0	0	0
Poland -----	0	0	0	0
Romania -----	27	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	9,017	6,270	3,545	4,389
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	132	0	232
Total-----	114,450	92,935	44,822	52,809
Other countries:				
Canada -----	4,540	13,577	5,172	7,574
Sweden -----	8,819	8,921	4,502	4,581
India -----	509	2,623	761	1,559
Switzerland -----	92	65	45	215
Argentina -----	169	28	28	0
Taiwan -----	166	9	9	106
Singapore -----	2	0	0	0
Indonesia -----	53	0	0	0
Jordan -----	41	0	0	0
Israel -----	4	0	0	12
Total-----	14,395	25,223	10,517	14,047
Grand total-----	128,845	118,158	55,339	66,856

1/ Less than 0.5 short ton.

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

Table 25.--Stainless steel wire rod: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	88	0	0	3
Brazil -----	809	1,413	375	558
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	10,582	10,772	6,250	5,246
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	6,087	5,195	2,626	2,051
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 -----	336	861	746	699
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	17,902	18,241	9,997	8,557
Other countries:				
Sweden -----	3,497	4,621	1,971	2,491
Canada -----	284	168	82	4
India -----	0	97	11	745
Argentina -----	15	0	0	0
Taiwan -----	0	0	0	126
Total-----	3,796	4,886	2,064	3,366
Grand total-----	21,698	23,127	12,061	11,923

Table 25.--Stainless steel wire rod: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
/RA countries:				
Australia -----	0	0	0	0
Austria -----	129	0	0	60
Brazil -----	1,991	2,774	683	930
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	30,861	27,607	15,460	13,760
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	16,226	11,460	6,027	4,515
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 -----	796	1,807	1,571	1,331
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	50,003	43,648	23,741	20,596
Other countries:				
Sweden -----	11,170	11,714	5,439	6,443
Canada -----	787	451	238	9
India -----	0	190	30	1,435
Argentina -----	26	0	0	0
Taiwan -----	0	0	0	252
Total-----	11,983	12,355	5,707	8,139
Grand total-----	61,986	56,003	29,448	28,735

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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	1/	1/	1/	3
Austria -----	105	1	1/	8
Brazil -----	849	446	33	264
Czechoslovakia -----	0	0	0	4
East Germany -----	0	0	0	0
EC countries -----	7,542	6,443	3,210	2,803
Finland -----	7	0	0	7
Hungary -----	0	0	0	0
Japan -----	4,796	3,393	1,791	1,434
Mexico -----	6	0	0	7
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 -----	759	619	306	457
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	3	0	0	0
Total-----	14,067	10,902	5,340	4,987
Other countries:				
Canada -----	2,355	2,404	1,260	1,151
Sweden -----	2,493	2,051	985	1,204
India -----	896	1,613	863	283
Taiwan -----	1,099	867	489	759
Switzerland -----	337	284	148	182
Thailand -----	71	175	139	93
Chile -----	0	21	21	0
New Zealand -----	0	9	0	0
Singapore -----	1/	1/	1/	0
Israel -----	0	0	0	1/
All others-----	1/	0	0	0
Total-----	7,251	7,424	3,905	3,672
Grand total-----	21,318	18,326	9,245	8,659

See footnote(s) at end of table.

Table 26.--Stainless steel wire: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	81	97	44	64
Austria -----	516	11	4	32
Brazil -----	2,069	959	132	469
Czechoslovakia -----	0	0	0	17
East Germany -----	0	0	0	0
EC countries -----	28,620	24,110	12,337	10,974
Finland -----	58	0	0	135
Hungary -----	0	0	0	0
Japan -----	20,748	13,471	7,205	5,627
Mexico -----	3	0	0	18
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 -----	3,042	2,291	1,176	1,548
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	4	0	0	0
Total -----	55,141	40,939	20,898	18,884
Other countries:				
Canada -----	12,604	11,424	6,246	5,565
Sweden -----	13,952	10,629	5,276	6,149
India -----	2,432	3,987	2,218	641
Taiwan -----	3,834	2,818	1,664	2,561
Switzerland -----	1,590	1,318	713	907
Thailand -----	274	617	491	353
Chile -----	0	19	19	0
New Zealand -----	0	18	0	0
Singapore -----	9	6	6	0
Israel -----	0	0	0	5
All others -----	4	0	0	0
Total -----	34,699	30,836	16,633	16,181
Grand total -----	89,840	71,775	37,531	35,065

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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	0	1/	0	5
Austria -----	664	929	397	274
Brazil -----	12	0	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	11,955	14,525	9,648	5,552
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	9,327	8,787	3,510	6,041
Mexico -----	346	597	285	132
Peoples Rep of China -----	4	486	109	172
Poland -----	0	0	0	1/
Romania -----	0	0	0	0
Republic of South Africa -----	1/	0	0	0
Korea, Republic of -----	684	3,470	984	4,323
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	1/
Total-----	22,992	28,794	14,933	16,499
Other countries:				
Taiwan -----	3,135	8,216	3,746	5,032
Canada -----	6,241	5,711	3,088	2,188
Sweden -----	4,208	3,225	1,505	496
Singapore -----	315	1,038	523	663
Thailand -----	332	152	21	0
India -----	5	66	41	5
Hong Kong -----	0	11	0	61
Switzerland -----	16	6	5	22
Argentina -----	0	1/	0	2
Norway -----	1/	1/	1/	1/
All others-----	13	1/	1/	8
Total-----	14,265	18,425	8,929	8,477
Grand total-----	37,257	47,219	23,862	24,976

See footnote(s) at end of table.

Table 27.--Stainless steel pipe and tube: U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	0	2	0	20
Austria -----	5,246	6,665	3,015	2,242
Brazil -----	54	0	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	45,286	44,642	22,442	24,604
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	52,918	48,830	21,648	30,743
Mexico -----	1,195	2,439	1,358	443
Peoples Rep of China -----	12	1,293	292	466
Poland -----	0	0	0	2
Romania -----	0	0	0	0
Republic of South Africa -----	4	0	0	0
Korea, Republic of -----	2,570	9,796	2,936	11,945
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	3
Total-----	107,285	113,667	51,691	70,468
Other countries:				
Taiwan -----	12,587	25,477	12,451	14,782
Canada -----	30,786	29,198	15,088	12,728
Sweden -----	22,758	14,203	7,245	3,193
Singapore -----	1,060	3,040	1,567	1,947
Thailand -----	874	320	55	0
India -----	20	349	223	41
Hong Kong -----	0	26	0	141
Switzerland -----	212	250	173	295
Argentina -----	0	7	0	17
Norway -----	7	9	2	9
All others-----	49	1	1	24
Total-----	68,353	72,880	36,805	33,177
Grand total-----	175,638	186,547	88,496	103,645

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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
Quantity (short tons)				
VRA countries:				
Australia -----	18	537	282	0
Austria -----	2,709	2,810	1,064	2,325
Brazil -----	2,052	2,542	1,050	2,102
Czechoslovakia -----	33	0	0	230
East Germany -----	0	2	2	0
EC countries-----	16,254	14,247	7,078	7,211
Finland -----	0	0	0	172
Hungary -----	0	0	0	0
Japan -----	5,543	4,015	1,694	1,655
Mexico -----	137	230	7,669	0
Peoples Rep of China -----	167	74	0	143
Poland -----	225	289	149	201
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	1,167	694	392	147
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	68	313	112	99
Yugoslavia -----	0	0	0	0
Total-----	28,373	25,753	19,492	14,285
Other countries:				
Canada -----	8,963	7,142	4,106	7,432
Sweden -----	10,867	6,247	3,683	2,866
Philippines -----	0	66	0	0
India -----	1/	54	22	0
Argentina -----	98	42	42	0
Soviet Union -----	10	0	0	0
Israel -----	1/	0	0	0
Norway -----	0	0	0	6
Switzerland -----	1/	0	0	1/
Total-----	19,938	13,551	7,853	10,304
Grand total-----	48,311	39,304	27,345	24,589

See footnote(s) at end of table.

Table 28.--Alloy tool steel (all forms): U.S. imports for consumption, by specified sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
VRA countries:				
Australia -----	41	1,209	635	0
Austria -----	7,507	8,167	3,409	6,136
Brazil -----	3,481	4,166	2,141	2,613
Czechoslovakia -----	46	0	0	231
East Germany -----	0	8	8	0
EC countries -----	31,615	31,445	16,686	13,057
Finland -----	0	0	0	55
Hungary -----	0	0	0	0
Japan -----	11,142	9,901	5,144	3,836
Mexico -----	183	301	2,058	0
Peoples Rep of China -----	219	108	0	127
Poland -----	567	861	478	532
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	1,979	1,442	836	214
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	86	428	157	127
Yugoslavia -----	0	0	0	0
Total-----	56,866	58,036	31,552	26,928
Other countries:				
Canada -----	12,883	10,490	6,341	4,373
Sweden -----	30,000	18,915	10,100	9,794
Philippines -----	0	191	0	0
India -----	4	107	53	0
Argentina -----	165	76	76	0
Soviet Union -----	8	0	0	0
Israel -----	10	0	0	0
Norway -----	0	0	0	146
Switzerland -----	1	0	0	1
Total-----	43,071	29,779	16,570	14,314
Grand total-----	99,937	87,815	48,122	41,242

1/ Less than 0.5 short ton.

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

Table 29.--Total, stainless and alloy tool steel products: U.S. imports for consumption, by principal sources, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January--June	
			1990	1991
			Quantity (short tons)	
VRA countries:				
Australia -----	28	543	282	7
Austria -----	3,979	4,009	1,577	2,983
Brazil -----	8,218	9,958	2,864	4,503
Czechoslovakia -----	33	0	0	234
East Germany -----	0	2	2	0
EC countries-----	146,230	148,205	72,480	70,708
Finland -----	3,128	15,800	7,594	5,639
Hungary -----	0	0	0	0
Japan -----	93,860	84,212	39,197	44,865
Mexico -----	15,654	23,483	18,871	12,207
Peoples Rep of China -----	178	560	109	315
Poland -----	518	331	191	201
Romania -----	15	0	0	0
Republic of South Africa -----	1/	0	0	0
Korea, Republic of -----	12,998	15,653	7,648	10,986
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	68	313	112	99
Yugoslavia -----	3	73	0	88
Total-----	284,925	303,142	150,927	152,835
Other countries:				
Canada -----	58,521	49,727	25,707	30,371
Sweden -----	42,184	38,812	21,694	20,151
Taiwan -----	4,294	9,087	4,239	5,959
India -----	1,116	5,686	2,458	2,017
Singapore -----	320	1,066	523	663
Thailand -----	403	327	160	93
Switzerland -----	366	310	164	257
Philippines -----	0	66	0	0
Argentina -----	206	58	57	2
Chile -----	0	21	21	0
All others-----	37	20	0	77
Total-----	107,447	105,180	55,023	59,590
Grand total-----	392,372	408,322	205,950	212,425

See footnote(s) at end of table.

able 29.--Total, stainless and alloy tool steel products: U.S. imports for consumption, by principal sources, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January--June	
			1990	1991
Value (thousand dollars)				
RA countries:				
Australia -----	133	1,318	678	84
Austria -----	14,919	15,877	6,816	9,861
Brazil -----	18,144	19,449	6,381	7,286
Czechoslovakia -----	46	0	0	249
East Germany -----	0	8	8	0
EC countries -----	353,921	316,222	150,807	169,348
Finland -----	8,791	32,775	14,738	12,099
Hungary -----	0	0	0	0
Japan -----	266,312	220,316	107,889	113,961
Mexico -----	35,327	45,380	24,547	20,667
Peoples Rep of China -----	263	1,401	292	592
Poland -----	1,099	956	574	534
Romania -----	27	0	0	0
Republic of South Africa -----	4	0	0	0
Korea, Republic of -----	33,988	34,510	16,614	25,570
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	86	428	157	127
Yugoslavia -----	4	164	0	234
Total-----	733,064	688,804	329,501	360,612
Other countries:				
Canada -----	138,065	109,343	56,166	54,448
Sweden -----	136,924	107,648	58,021	55,307
Taiwan -----	16,604	28,312	14,131	17,714
India -----	2,965	12,490	5,552	4,198
Singapore -----	1,088	3,170	1,573	1,949
Thailand -----	1,148	937	546	353
Switzerland -----	1,895	1,732	931	1,461
Philippines -----	0	191	0	0
Argentina -----	360	111	104	17
Chile -----	0	19	19	0
All others-----	183	54	3	340
Total-----	299,232	264,007	137,046	135,787
Grand total-----	1,032,296	952,811	466,547	496,399

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, 1989, 1990, and by specified periods, 1990 and 1991

(Per short ton)

Item	1989	1990	January-June	
			1990	1991
Carbon and certain alloy 1/ steel:				
Semifinished 2/-----	259	234	231	255
Plate-----	400	366	386	358
Sheet and strip:				
Hot rolled-----	378	328	355	324
Cold rolled-----	546	498	547	488
Galvanized-----	587	581	599	544
Tin plate-----	613	616	618	623
Tin free-----	574	581	572	606
Other coated-----	616	643	641	608
Average, sheet and strip-----	511	471	508	462
Bar:				
Hot finished-----	454	463	470	477
Cold finished-----	658	684	696	707
Reinforcing-----	308	316	326	322
Light shapes-----	349	336	343	328
Average, bar-----	445	460	470	482
Wire rod-----	374	356	353	371
Wire-----	734	748	743	745
Wire products-----	928	996	971	1,044
Structural shapes and units:				
Heavy structurals-----	377	359	356	392
Fabricated structurals-----	1,129	1,371	1,314	1,408
Average, structurals-----	452	467	476	520
Rails and related products-----	471	390	439	495
Pipe and tube:				
Oil country tubular goods-----	743	720	694	732
Line pipe-----	563	510	513	600
Mechanical pipe-----	787	891	851	949
Structural pipe-----	563	538	545	528
Pressure tubing-----	1,021	1,093	1,296	963
Other (incl. standard)-----	520	503	510	504
Average, pipe and tube-----	615	579	574	613
Average, carbon and certain alloy 1/ steel-----	489	464	486	480

See footnotes at end of table.

Table 30.--Steel mill products and certain fabricated steel products: Unit value of U.S. imports for consumption, 1989, 1990, and by specified periods, 1990 and 1991

(Per short ton)

Item	1989	1990	January-June	
			1990	1991
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/	1,722	1,306	1,301	1,506
Plate	2,962	2,288	2,191	2,298
Sheet and strip:				
Sheet	2,084	1,819	1,857	1,786
Strip	3,255	3,088	3,118	3,257
Average, sheet and strip:	2,253	1,982	2,031	1,980
Bars and shapes	2,968	2,654	2,751	2,553
Wire rod	2,857	2,421	2,442	2,410
Wire	4,214	3,916	4,060	4,050
Pipe and tube	4,714	3,951	3,709	4,150
Alloy tool steel (all forms)-	2,069	2,234	1,760	1,677
Average, stainless and alloy steel	2,631	2,333	2,265	2,337

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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January-June	

			1990	1991
Quantity (short tons)				

Carbon and certain alloy 3/ steel:				
Semifinished 2/				
Ingots-----	25,863	65,400	8,712	2,444
Blooms and billets-----	504,638	488,780	202,355	364,335
Slabs and sheet bars-----	1,605,189	1,747,818	838,057	735,655
Total-----	2,135,690	2,301,998	1,049,123	1,102,434
Plate:				
Carbon-----	1,312,364	1,420,427	578,613	596,961
Alloy-----	107,032	131,644	58,090	53,736
Total-----	1,419,396	1,552,071	636,703	650,697
Sheet and strip:				
Hot rolled:				
Sheet-----	1,835,755	2,211,426	848,702	968,482
Strip-----	110,452	96,349	46,871	45,296
Cold rolled:				
Black plate-----	144,642	146,079	64,413	56,958
Electrical-----	85,328	76,163	34,073	38,089
Other sheet-----	1,701,183	1,799,888	673,672	859,222
Other strip-----	112,196	112,905	58,301	54,695
Galvanized-----	1,625,227	1,649,264	794,796	807,791
Tin plate-----	337,330	313,549	155,191	147,493
Tin free-----	114,902	114,045	53,477	58,598
Other coated-----	235,827	192,491	97,585	105,912
Total-----	6,302,844	6,712,159	2,827,082	3,142,538
Bar:				
Hot rolled:				
Carbon-----	525,944	464,375	202,888	170,153
Alloy-----	238,912	202,466	98,082	112,144
Cold rolled:				
Carbon-----	118,180	91,358	45,873	42,775
Alloy-----	46,608	44,295	20,120	24,394
Reinforcing-----	233,733	147,882	67,592	49,924
Light structural shapes-----	100,927	84,880	41,334	37,613
Total-----	1,264,305	1,035,255	475,888	437,002

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, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January-June	
			1990	1991
			Quantity (short tons)	
Wire rod and related products:				
Wire rod:				
Carbon-----	1,085,797	936,837	539,942	340,209
Alloy-----	42,620	19,276	7,392	10,812
Wire:				
Carbon-----	432,369	375,454	208,250	171,068
Alloy-----	40,615	38,555	21,163	17,636
Wire products:				
Nails-----	384,737	373,685	221,778	132,152
Barbed wire-----	12,440	15,350	9,255	6,572
Wire fencing-----	60,907	46,164	23,732	19,820
Bale ties-----	955	696	410	240
Wire strand-----	161,751	152,051	85,072	51,542
Wire rope-----	82,812	72,380	35,231	38,027
Milliners wire-----	0	0	0	1/
Total-----	2,305,004	2,030,446	1,152,224	788,078
Structurals:				
Heavy-----	1,477,782	911,556	460,341	300,322
Fabricated-----	162,579	109,037	65,594	43,035
Total-----	1,640,361	1,020,593	525,935	343,357
Rails and related products:				
Rails-----	244,236	301,410	128,566	112,788
Joint bars and tie plates-----	14,023	10,205	5,066	8,286
Track spikes-----	5,853	2,602	1,538	1,474
Wheels and axles-----	58,873	35,337	11,010	11,059
Total-----	322,985	349,555	146,179	133,607
Pipes and tubes:				
Oil country tubular goods-----	429,448	387,602	180,891	262,899
Line pipe-----	526,983	695,930	379,512	650,412
Mechanical pipe-----	281,056	186,242	91,638	96,043
Structural pipe-----	323,918	275,432	150,086	111,820
Pressure tubing-----	44,944	38,044	17,235	19,604
Other (including standard)-----	829,195	965,519	493,649	490,832
Total-----	2,435,544	2,548,769	1,313,011	1,631,610

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, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January-June	
			1990	1991
			Quantity (short tons)	
Stainless and alloy tool steel:				
Stainless:				
Semifinished:				
Ingots-----	191	273	52	1,927
Blooms and billets-----	42,268	41,560	17,735	18,536
Slabs and sheet bars-----	19,663	18,989	15,254	6,302
Total-----	62,121	60,822	33,040	26,765
Plate-----	17,713	20,651	9,785	11,666
Sheet and strip:				
Sheet:				
Hot rolled-----	8,070	6,822	3,380	1,973
Cold rolled-----	112,191	127,779	57,352	65,446
Strip-----	20,258	19,741	9,760	10,240
Total-----	140,519	154,342	70,493	77,659
Bars and shapes-----	43,417	44,526	20,118	26,189
Wire rod-----	21,698	23,128	12,061	11,922
Wire-----	21,319	18,328	9,245	8,659
Pipe and tube-----	37,258	47,220	23,862	24,976
Alloy tool steel (all forms):				
Semifinished 2/-----	3,959	3,260	9,106	6,902
Bars-----	33,488	26,843	14,349	12,825
Other-----	10,866	9,201	3,890	4,860
Total-----	48,313	39,304	27,345	24,588

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, 1989, 1990, and by specified periods, 1990 and 1991

Item	1989	1990	January-June	
			1990	1991
Share of product group totals (percent)				
Carbon and certain alloy 3/ steel:				
Semifinished 2/				
Ingots-----	1.21	2.84	0.83	0.22
Blooms and billets-----	23.63	21.23	19.29	33.05
Slabs and sheet bars-----	75.16	75.93	79.88	66.73
Total-----	100.00	100.00	100.00	100.00
Plate:				
Carbon-----	92.46	91.52	90.88	91.74
Alloy-----	7.54	8.48	9.12	8.26
Total-----	100.00	100.00	100.00	100.00
Sheet and strip:				
Hot rolled:				
Sheet-----	29.13	32.95	30.02	30.82
Strip-----	1.75	1.44	1.66	1.44
Cold rolled:				
Black plate-----	2.29	2.18	2.28	1.81
Electrical-----	1.35	1.13	1.21	1.21
Other sheet-----	26.99	26.82	23.83	27.34
Other strip-----	1.78	1.68	2.06	1.74
Galvanized-----	25.79	24.57	28.11	25.71
Tin plate-----	5.35	4.67	5.49	4.69
Tin free-----	1.82	1.70	1.89	1.86
Other coated-----	3.74	2.87	3.45	3.37
Total-----	100.00	100.00	100.00	100.00
Bar:				
Hot rolled:				
Carbon-----	41.60	44.86	42.63	38.94
Alloy-----	18.90	19.56	20.61	25.66
Cold rolled:				
Carbon-----	9.35	8.82	9.64	9.79
Alloy-----	3.69	4.28	4.23	5.58
Reinforcing-----	18.49	14.28	14.20	11.42
Light structural shapes-----	7.98	8.20	8.69	8.61
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, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Item	1989	1990	January-June	
			1990	1991
Share of product group totals (percent)				
Wire rod and related products:				
Wire rod:				
Carbon-----	47.11	46.14	46.86	43.17
Alloy-----	1.85	0.95	0.64	1.37
Wire:				
Carbon-----	18.76	18.49	18.07	21.71
Alloy-----	1.76	1.90	1.84	2.24
Wire products:				
Nails-----	16.69	18.40	19.25	16.77
Barbed wire-----	0.54	0.76	0.80	0.83
Wire fencing-----	2.64	2.27	2.06	2.52
Bale ties-----	0.04	0.03	0.04	0.03
Wire strand-----	7.02	7.49	7.38	6.54
Wire rope-----	3.59	3.56	3.06	4.83
Milliners wire-----	0.00	0.00	0.00	1/
Total-----	100.00	100.00	100.00	100.00
Structurals:				
Heavy-----	90.09	89.32	87.53	87.47
Fabricated-----	9.91	10.68	12.47	12.53
Total-----	100.00	100.00	100.00	100.00
Rails and related products:				
Rails-----	75.62	86.23	87.95	84.42
Joint bars and tie plates-----	4.34	2.92	3.47	6.20
Track spikes-----	1.81	0.74	1.05	1.10
Wheels and axles-----	18.23	10.11	7.53	8.28
Total-----	100.00	100.00	100.00	100.00
Pipes and tubes:				
Oil country tubular goods-----	17.63	15.21	13.78	16.11
Line pipe-----	21.64	27.30	28.90	39.86
Mechanical pipe-----	11.54	7.31	6.98	5.89
Structural pipe-----	13.30	10.81	11.43	6.85
Pressure tubing-----	1.85	1.49	1.31	1.20
Other (including standard)-----	34.05	37.88	37.60	30.08
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, 1989, 1990, and by specified periods, 1990 and 1991--Continued

	:	:	:	January-June	
	:	:	:		
	:	:	:		
Item	:	1989	:	1990	:
	:		:		:
	:		:	1990	:
	:		:		1991
	:		:		:
	:	Share of product group totals (percent)			
	:				
Stainless and alloy tool steel:	:	:	:	:	:
Stainless:	:	:	:	:	:
Semifinished:	:	:	:	:	:
Ingots-----	:	0.31	:	0.45	:
Blooms and billets-----	:	68.04	:	68.33	:
Slabs and sheet bars-----	:	31.65	:	31.22	:
Total-----	:	100.00	:	100.00	:
Plate-----	:	100.00	:	100.00	:
Sheet and strip:	:	:	:	:	:
Sheet:	:	:	:	:	:
Hot rolled-----	:	5.74	:	4.42	:
Cold rolled-----	:	79.84	:	82.79	:
Strip-----	:	14.42	:	12.79	:
Total-----	:	100.00	:	100.00	:
Bars and shapes-----	:	100.00	:	100.00	:
Wire rod-----	:	100.00	:	100.00	:
Wire-----	:	100.00	:	100.00	:
Pipe and tube-----	:	100.00	:	100.00	:
Alloy tool steel (all forms):	:	:	:	:	:
Semifinished 2/-	:	8.19	:	8.30	:
Bars-----	:	69.31	:	68.30	:
Other-----	:	22.49	:	23.41	:
Total-----	:	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, 1989, 1990, and by
specified periods, 1990 and 1991

(Short tons)

Item	1989	1990	January-June	
			1990	1991
Atlantic Coast-----	3,510,909	2,904,126	1,511,792	1,665,745
Great Lakes-Canadian border-----	5,688,226	5,758,953	2,330,858	2,043,657
Gulf Coast-Mexican border-----	4,561,954	4,609,650	2,190,947	2,604,289
Off-shore-----	371,695	308,790	131,722	138,851
Pacific Coast-----	4,085,702	4,377,647	2,166,776	1,989,207
Total-----	18,218,486	17,959,166	8,332,095	8,441,747

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, 1989, 1990, and by specified periods, 1990 and 1991

(Short tons)

Item	1989	1990	January-June	
			1990	1991
Carbon and certain alloy 1/ steel:				
Semifinished 2/-----	323,401	172,652	104,980	126,354
Plate-----	216,546	215,847	105,166	122,817
Sheet and strip-----	1,281,884	1,189,938	583,860	817,989
Bars and certain shapes-----	155,134	102,207	58,402	45,401
Wire rod-----	215,013	185,722	96,610	70,228
Wire-----	88,009	76,338	38,403	29,254
Wire products-----	237,679	211,516	118,738	67,456
Structural shapes and units-----	458,130	192,938	101,792	55,334
Rails and related products-----	35,669	26,018	18,185	16,505
Pipe and tube-----	340,606	360,166	195,510	226,581
Total-----	3,352,071	2,733,343	1,421,646	1,577,918
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/-----	14,669	21,028	15,797	8,274
Plate-----	8,900	9,071	5,039	4,341
Sheet and strip-----	47,438	55,716	25,467	32,225
Bars and certain shapes-----	22,418	19,501	8,318	11,942
Wire rod-----	16,289	17,513	8,893	8,179
Wire-----	11,848	10,169	4,918	4,917
Pipe and tube-----	14,468	18,163	11,276	7,821
Tool steel (all forms)-----	22,807	12,621	10,437	10,126
Total-----	158,838	170,783	90,146	87,827
Grand Total-----	3,510,909	2,904,126	1,511,792	1,665,745

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, 1989, 1990, and by specified periods, 1990 and 1991

(Short tons)

Item	1989	1990	January-June	
			1990	1991
Carbon and certain alloy 1/ steel:				
Semifinished 2/-----	393,604	376,130	161,345	69,473
Plate-----	551,017	578,160	218,798	173,313
Sheet and strip-----	2,145,556	2,380,594	765,201	736,543
Bars and certain shapes-----	650,140	590,935	249,006	221,829
Wire rod-----	466,968	387,724	236,430	169,308
Wire-----	230,319	202,258	114,901	95,465
Wire products-----	106,485	96,089	59,550	44,212
Structural shapes and units-----	375,682	399,695	188,713	145,272
Rails and related products-----	161,932	196,840	60,031	49,248
Pipe and tube-----	492,836	446,874	228,465	285,778
Total-----	5,574,539	5,655,302	2,282,440	1,990,441
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/-----	36,980	26,516	13,762	15,194
Plate-----	2,652	5,084	2,342	2,019
Sheet and strip-----	35,682	33,840	13,904	11,770
Bars and certain shapes-----	4,337	8,597	3,840	4,433
Wire rod-----	822	1,064	559	745
Wire-----	5,832	4,816	2,479	2,486
Pipe and tube-----	7,190	7,942	3,690	3,481
Tool steel (all forms)-----	20,192	15,794	7,842	13,087
Total-----	113,688	103,651	48,418	53,216
Grand Total-----	5,688,226	5,758,953	2,330,858	2,043,657

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, 1989, 1990, and by specified periods, 1990 and 1991

(Short tons)

Item	1989	1990	January-June	
			1990	1991
Carbon and certain alloy 1/ steel:				
Semifinished 2/-----	684,289	616,184	303,775	371,081
Plate-----	439,139	626,168	244,761	297,042
Sheet and strip-----	1,316,891	1,224,313	542,243	745,065
Bars and certain shapes-----	157,610	124,950	62,028	89,537
Wire rod-----	220,248	217,475	106,257	81,009
Wire-----	61,675	53,333	31,003	25,990
Wire products-----	138,125	175,874	88,635	69,808
Structural shapes and units-----	323,672	197,391	100,073	79,454
Rails and related products-----	81,408	55,424	29,305	34,233
Pipe and tube-----	1,070,870	1,236,295	640,621	765,195
Total-----	4,493,927	4,527,407	2,148,702	2,558,413
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/-----	10,462	13,275	3,478	3,156
Plate-----	4,000	3,456	1,067	3,394
Sheet and strip-----	30,331	38,277	18,364	23,786
Bars and certain shapes-----	7,646	8,266	3,831	5,509
Wire rod-----	1,735	1,824	1,159	1,107
Wire-----	1,144	2,162	1,180	856
Pipe and tube-----	11,123	12,488	4,868	7,378
Tool steel (all forms)-----	1,585	2,495	8,298	689
Total-----	68,027	82,243	42,245	45,875
Grand Total-----	4,561,954	4,609,650	2,190,947	2,604,289

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, 1989, 1990, and by specified periods, 1990 and 1991

(Short tons)

Item	1989	1990	January-June	
			1990	1991
Carbon and certain alloy 1/ steel:				
Semifinished 2/-----	0	3/	3/	0
Plate-----	7,984	6,085	3,132	3,772
Sheet and strip-----	77,155	99,978	44,813	34,541
Bars and certain shapes-----	169,928	115,415	49,859	42,263
Wire rod-----	5,174	15,574	5,909	7,590
Wire-----	11,407	12,654	5,531	6,472
Wire products-----	6,070	8,213	4,027	3,272
Structural shapes and units-----	28,269	12,233	5,445	6,579
Rails and related products-----	333	624	94	73
Pipe and tube-----	64,215	37,894	12,863	32,640
Total-----	370,534	308,669	131,673	137,202
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/-----	0	0	0	0
Plate-----	1	0	0	0
Sheet and strip-----	36	20	0	0
Bars and certain shapes-----	3/	10	0	0
Wire rod-----	0	0	0	0
Wire-----	810	64	22	42
Pipe and tube-----	18	8	8	1,607
Tool steel (all forms)-----	295	19	19	0
Total-----	1,161	120	49	1,649
Grand Total-----	371,695	308,790	131,722	138,851

- 1/ Certain alloy refers to alloy steel other than stainless or tool steel.
2/ Semifinished steel includes ingots, blooms, billets, slabs, and steel bars.
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, 1989, 1990, and by specified periods, 1990 and 1991

(Short tons)

Item	1989	1990	January-June	
			1990	1991
Carbon and certain alloy 1/ steel:				
Semifinished 2/-----	734,396	1,137,032	479,023	535,525
Plate-----	204,710	125,811	64,846	53,753
Sheet and strip-----	1,481,358	1,817,335	890,966	808,401
Bars and certain shapes-----	131,492	101,747	56,594	37,973
Wire rod-----	221,015	149,617	102,127	22,886
Wire-----	81,573	69,425	39,574	31,523
Wire products-----	215,243	168,632	104,528	63,606
Structural shapes and units---	454,608	218,336	129,912	56,718
Rails and related products---	43,644	70,650	38,564	33,548
Pipe and tube-----	467,017	467,540	235,552	321,416
Total-----	4,035,056	4,326,124	2,141,685	1,965,349
Stainless and alloy tool steel:				
Stainless steel:				
Semifinished 2/-----	10	3	3	141
Plate-----	2,159	3,039	1,336	1,911
Sheet and strip-----	27,032	26,489	12,758	9,877
Bars and certain shapes-----	9,015	8,152	4,128	4,305
Wire rod-----	2,852	2,728	1,450	1,891
Wire-----	1,685	1,117	646	359
Pipe and tube-----	4,459	8,619	4,019	4,690
Tool steel (all forms)-----	3,433	1,376	749	686
Total-----	50,646	51,523	25,090	23,858
Grand Total-----	4,085,702	4,377,647	2,166,776	1,989,207

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
FORTNEY PETE STARK, CALIFORNIA
ANDY JACOBS, JR., INDIANA
HAROLD FORD, TENNESSEE
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PHILLIP D. MOSELEY, MINORITY CHIEF OF STAFF

COMMITTEE ON WAYS AND MEANS

U.S. HOUSE OF REPRESENTATIVES

WASHINGTON, DC 20541

November 27, 1989

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.

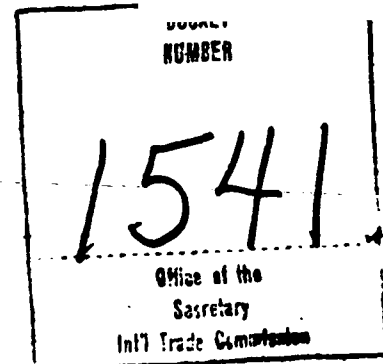
In light of the fact that President Bush has authorized the negotiation of transitional VRA's for an additional two-and-one-half years, and the Congress enacted legislation to provide for the enforcement of VRA's until March 31, 1992, the Committee on Ways and Means would like to continue receiving the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

Thank you for your cooperation in this matter.

Sincerely yours,


Dan Rostenkowski
Chairman

DR/jn



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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ANDY JACOBS, JR., INDIANA
HAROLD FORD, TENNESSEE
ED JENKINS, GEORGIA
THOMAS J. DOWNNEY, NEW YORK
FRANK J. GUARINI, NEW JERSEY
MARTY RUSSO, ILLINOIS
DON J. PEASE, OHIO
ROBERT T. MATSUI, CALIFORNIA
BERYL ANTHONY, JR., ARKANSAS
RONNIE G. FLIPPO, ALABAMA
BYRON L. DORGAN, NORTH DAKOTA
BARBARA B. KENNEDY, CONNECTICUT
BRIAN J. DONNELLY, MASSACHUSETTS
WILLIAM J. COYNE, PENNSYLVANIA
MICHAEL A. ANDREWS, TEXAS
SANDER M. LEVIN, MICHIGAN
JIM MOODY, WISCONSIN
BENJAMIN L. CARDIN, MARYLAND

ROBERT J. LEONARD, CHIEF COUNSEL AND STAFF DIRECTOR

PHILLIP D. MOSELEY, MINORITY CHIEF OF STAFF

COMMITTEE ON WAYS AND MEANS

U.S. HOUSE OF REPRESENTATIVES
WASHINGTON, DC 20515

November 7, 1990

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

Dear Madam Chairman:

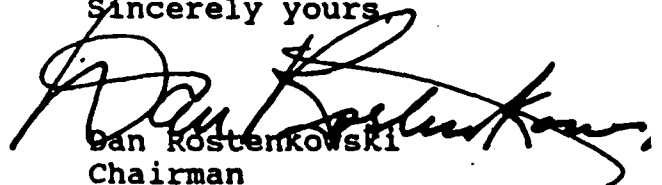
It has come to my attention that, in light of budget considerations and the scheduled termination in March 1992 of the steel voluntary restraint arrangements, you have recommended that publication of the Monthly Report on the Status of the Steel Industry (Investigation No. 332-226 under section 332 of 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

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

[332-228]

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 20438.

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. 332-228, and will furnish to the Committee monthly reports on the status of the steel industry through March 31, 1992. This coincides with the President's program of transitional voluntary restraint agreements (VRAs).

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

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

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

Notice of institution of the investigation and of the initial series of reports was published in the Federal Register on April 23, 1986 (51 FR 15396).

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 28, 1989.

Kenneth R. Mason,
Secretary.

[FR Doc. 90-196 Filed 1-3-90; 8:45 am]

BILLING CODE 7030-02-01

[Investigation No. 337-TA-280]

Certain Wire Electrical Discharge Machining Apparatus and Component 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 20438, 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 Brunstad and Vice Chairman Case dissenting.

D-1

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. Hilla, the United States Trade Representative, stating that "We have concluded that we do not need further information on this subject at this time. Therefore, in the interest of conserving the Commission's resources, the investigation may be terminated at this time. A final report will not be needed."

Issued: December 3, 1990.

By Order of the Commission.

Kenneth R. Mason,
Secretary.

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

BILLING CODE 7020-02-M

[332-226]

Quarterly Report on the Status of the Steel Industry

AGENCY: United States International Trade Commission.

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

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

Background

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

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

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

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

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

Issued: November 30, 1990.

By order of the Commission.

Kenneth R. Mason,
Secretary.

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

BILLING CODE 7020-02-M

INTERSTATE COMMERCE COMMISSION

[Finance Docket No. 31778]

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

AGENCY: Interstate Commerce Commission.

ACTION: Notice of exemption.

SUMMARY: The Commission exempts from the prior approval requirements of 49 U.S.C. 11343 *et seq.* Dallas Area Rapid Transit's continuance in control of Dallas Area Rapid Transit Property Acquisition Corporation, subject to standard labor protective conditions. **DATES:** The exemption will be effective December 15, 1990. Petitions for reconsideration must be filed by January 2, 1991.

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

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

(2) DART's representatives:
Lonnie E. Blaydes, Jr., Dallas Area Rapid Transit, 601 Pacific Area, Dallas, TX 75202

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

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

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

Decided: December 6, 1990.

By the Commission, Chairman, Phillips, 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. 37063]

Increased Rates in Coal, L&N RR

October 31, 1978.

AGENCY: Interstate Commerce Commission.

ACTION: Notice of reasons for denying 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 11168(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 11168(a), however, reflects Congressional recognition that both expense and revenue information can be necessary for determining railroad costs in regulatory proceeding. 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, 7304.20.1010, 7304.20.1020, 7304.20.1030, 7304.20.1040, 7304.20.1050, 7304.20.1060, 7304.20.1080, 7304.20.2000, 7304.20.2010, 7304.20.2020, 7304.20.2030, 7304.20.2040, 7304.20.2050, 7304.20.2060, 7304.20.2080, 7304.20.3000, 7304.20.3010, 7304.20.3020, 7304.20.3030, 7304.20.3040, 7304.20.3050, 7304.20.3060, 7304.20.3080, 7304.20.4000, 7304.20.4010, 7304.20.4020, 7304.20.4030, 7304.20.4040, 7304.20.4050, 7304.20.4060, 7304.20.4080, 7304.20.5010, 7304.20.5015, 7304.20.5030, 7304.20.5045, 7304.20.5050, 7304.20.5060, 7304.20.5075, 7304.20.6010, 7304.20.6015, 7304.20.6030, 7304.20.6045, 7304.20.6050, 7304.20.6060, 7304.20.6075, 7304.20.7000, 7304.20.8000, 7304.20.8030, 7304.20.8045, 7304.20.8060, 7305.20.2000, 7305.20.4000, 7305.20.6000, 7305.20.8000, 7306.20.1030, 7306.20.1090, 7306.20.2000, 7306.20.3000, 7306.20.4000, 7306.20.6010, 7306.20.6050, 7306.20.8010, 7306.20.8050, of the HTS. Oil country tubular goods are included in AISI product group No. 19.

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

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

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

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

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

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

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

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

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

Appendix F

U.S. Exports, by Country or Region of Destination, 1989, 1990,
and Specified Periods 1990 and 1991

Table F-1.--Steel mill products and certain fabricated steel products: U.S. exports, by specified markets, 1989, 1990, and by specified periods, 1990 and 1991

Market	1989	1990	January--June	
			1990	1991
			Quantity (short tons)	
Countries				
Canada -----	643,884	1,777,729	672,039	910,543
Mexico -----	543,322	715,570	301,527	607,642
Japan -----	582,173	479,299	285,477	433,718
EC countries-----	374,638	323,345	157,406	194,030
Korea, Republic of -----	726,783	308,795	227,100	506,188
Thailand -----	103,740	62,662	32,939	12,454
Morocco -----	5,774	59,872	59,763	13,592
Dominican Republic -----	51,350	52,485	40,295	13,395
Egypt -----	55,150	51,739	36,366	39,974
Indonesia -----	14,578	49,103	29,739	46,790
Ecuador -----	4,637	48,534	24,897	15,728
Soviet Union -----	163,232	46,394	45,578	530
Venezuela -----	19,028	34,098	5,873	54,584
Singapore -----	97,906	28,993	8,420	32,338
Pakistan -----	31,838	27,554	12,998	15,717
Guatemala -----	21,485	23,112	12,603	7,380
India -----	100,303	21,673	7,972	5,246
Hong Kong -----	25,945	19,903	10,790	12,851
Colombia -----	21,329	19,514	5,178	4,794
Nigeria -----	8,966	19,298	11,156	20,987
Taiwan -----	139,544	19,017	9,139	151,082
Australia -----	53,996	18,793	12,258	48,400
Turkey -----	57,318	18,161	3,623	24,828
Saudi Arabia -----	17,590	15,560	6,775	10,184
Brazil -----	29,556	15,404	8,346	6,998
Republic of South Africa -----	25,775	15,221	7,296	7,976
Peru -----	10,829	14,629	7,194	5,537
Costa Rica -----	22,106	13,646	8,452	8,077
Aruba -----	3,106	12,376	10,312	1,520
Bahamas -----	13,581	11,442	5,406	8,398
Trinidad and Tobago -----	15,730	10,735	4,062	6,184
Malaysia -----	1,034	10,674	3,365	42,869
Haiti -----	2,057	10,017	9,237	561
Israel -----	17,082	9,919	5,020	10,141
Peoples Rep of China -----	406,535	9,077	3,826	24,716
All others-----	279,694	135,557	74,238	78,044
Total-----	4,691,594	4,509,900	2,166,665	3,383,996

Table F-2.--Steel mill products and certain fabricated steel products: U.S. exports, by specified markets, 1989, 1990, and by specified periods, 1990 and 1991--Continued

Market	1989	1990	January--June	
			1990	1991
			Value (thousand dollars)	
Countries				
Canada -----	558,932	1,277,330	529,308	685,431
Mexico -----	424,868	530,191	237,110	381,522
Japan -----	243,922	174,776	100,057	144,270
EC countries-----	301,336	311,640	151,582	210,638
Korea, Republic of -----	304,055	132,114	86,693	184,122
Thailand -----	62,751	19,825	9,835	4,727
Morocco -----	3,369	19,140	18,794	2,741
Dominican Republic -----	21,641	18,187	12,847	6,300
Egypt -----	29,100	34,214	13,763	19,839
Indonesia -----	5,956	20,564	8,982	14,488
Ecuador -----	4,153	15,141	7,696	8,979
Soviet Union -----	106,763	21,483	20,251	1,143
Venezuela -----	23,276	31,273	8,246	46,757
Singapore -----	48,489	29,038	11,145	23,528
Pakistan -----	18,230	11,252	5,182	9,750
Guatemala -----	6,957	9,846	5,079	4,034
India -----	64,049	19,483	7,935	6,217
Hong Kong -----	20,029	13,015	6,127	12,543
Colombia -----	25,824	12,440	5,063	4,911
Nigeria -----	12,088	37,021	22,525	25,655
Taiwan -----	71,841	28,977	16,808	49,831
Australia -----	43,787	30,563	21,407	19,567
Turkey -----	30,149	10,587	3,175	13,022
Saudi Arabia -----	17,112	21,171	8,255	12,196
Brazil -----	22,194	23,006	10,082	9,986
Republic of South Africa -----	22,204	13,718	7,105	7,673
Peru -----	12,572	11,322	5,791	5,923
Costa Rica -----	9,461	6,043	3,050	4,279
Aruba -----	2,917	11,286	8,605	3,814
Bahamas -----	12,028	9,161	4,462	7,584
Trinidad and Tobago -----	14,713	12,637	5,020	7,012
Malaysia -----	2,941	6,955	3,531	14,377
Haiti -----	1,554	2,943	2,286	441
Israel -----	20,898	19,323	10,236	15,945
Peoples Rep of China -----	237,760	22,958	12,747	22,590
All others-----	214,955	175,337	104,119	93,480
Total-----	3,022,874	3,143,960	1,494,899	2,085,315

Table F-3.--Steel mill products and certain fabricated steel products: U.S. exports, by specified markets, 1989, 1990, and by specified periods, 1990 and 1991

Market	January--June			
	1989	1990	1990	1991
	Unit Value			
Countries				
Canada -----	868.06	718.52	787.62	752.77
Mexico -----	781.98	740.93	786.36	627.87
Japan -----	418.99	364.65	350.49	332.63
EC countries-----	804.34	963.80	962.99	1,085.59
Korea, Republic of -----	418.36	427.84	381.74	363.74
Thailand -----	604.89	316.38	298.59	379.55
Morocco -----	583.51	319.68	314.48	201.63
Dominican Republic -----	421.45	346.51	318.81	470.35
Egypt -----	527.65	661.28	378.46	496.29
Indonesia -----	408.57	418.79	302.03	309.64
Ecuador -----	895.54	311.97	309.13	570.87
Soviet Union -----	654.06	463.06	444.32	2,155.25
Venezuela -----	1,223.22	917.13	1,404.09	856.60
Singapore -----	495.26	1,001.55	1,323.51	727.57
Pakistan -----	572.56	408.35	398.63	620.37
Guatemala -----	323.82	426.00	403.02	546.58
India -----	638.56	898.97	995.39	1,185.08
Hong Kong -----	771.98	653.93	567.78	976.05
Colombia -----	1,210.76	637.50	977.85	1,024.40
Nigeria -----	1,348.16	1,918.35	2,019.12	1,222.42
Taiwan -----	514.83	1,523.72	1,839.08	329.83
Australia -----	810.93	1,626.28	1,746.39	404.28
Turkey -----	526.01	582.96	876.41	524.49
Saudi Arabia -----	972.84	1,360.56	1,218.55	1,197.53
Brazil -----	750.90	1,493.52	1,208.11	1,426.93
Republic of South Africa -----	861.45	901.25	973.83	962.01
Peru -----	1,160.90	773.99	805.01	1,069.73
Costa Rica -----	427.98	442.85	360.91	529.83
Aruba -----	939.12	911.98	834.45	2,509.75
Bahamas -----	885.69	800.61	825.46	903.14
Trinidad and Tobago -----	935.37	1,177.21	1,235.74	1,133.84
Malaysia -----	2,844.94	651.59	1,049.35	335.37
Haiti -----	755.25	293.83	247.51	786.11
Israel -----	1,223.40	1,948.18	2,039.01	1,572.31
Peoples Rep of China -----	584.84	2,529.13	3,331.44	913.98
All others-----	768.54	1,293.46	1,402.51	1,197.79
Total-----	644.32	697.12	689.95	616.23

Appendix G

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

Table G-1

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

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

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

²Excludes Spain and Portugal.

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

Table G-2

Exports to the United States of steel products covered by the VRAs, 1986

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

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

²Excludes Spain and Portugal.

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

Table G-3

Exports to the United States of steel products covered by the VRAs, 1987

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

¹Excludes Spain and Portugal.

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

Table G-4

Exports to the United States of steel products covered by the VRAs, 1988

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

¹Excludes Spain and Portugal.

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

Table G-5

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

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

¹Includes Spain and Portugal.

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

Table G-6

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

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

¹ Preliminary.

² Includes Spain and Portugal.

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

1. The first part of the document is a list of names and their corresponding addresses. The names are listed in a column on the left, and the addresses are listed in a column on the right. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

H-1

Appendix H

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

A U S T R A L I A

August 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	78,231	0.174%	136,122	+++	1,877	137,999
Coated Flat Rolled	13,730	1.063%	145,950	+++	(10)	145,940
Other Flat Rolled	31,553	0.169%	53,325	+++	2,008	55,333
Pipe and Tube	6,289	0.436%	27,420	+++	(498)	26,922
Other Finished Steel	23,404	0.102%	23,872	+++	(278)	23,594

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

+++ Not yet available

A U S T R A L I A

August 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	45,283	0.30%	135,849	13,342	5,328	154,519
Stainless Bar	n/a	***	250	+++	n/a	250
Stainless Rod	n/a	***	250	+++	n/a	250
OCTG	1,307	1.40%	18,298	+++	(2,198)	16,100
Other Pipe and Tube	4,982	0.30%	14,946	+++	(27)	14,919
Other Steel Products	26,395	0.11%	29,035	+++	(17)	29,018
Alloy Tool Steel	68	4.00%	2,720	+++	40	2,760

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

*** Export ceilings are fixed tonnages.

+++ Not yet available

EUROPEAN COMMUNITIES

August 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	Adj E Ce
Semi-Finished Products	78,231	0.76%	594,556	66,119	12,092	67
Slab	n/a	***	546,991	60,830	n/a	60
Plate	4,626	7.13%	329,834	37,766	(4,421)	36
Hot Rolled Sheet	14,135	7.29%	1,030,442	112,132	102,570	1,24
Cold Rolled Sheet	10,485	5.94%	622,809	64,467	25,364	71
Black Plate	322	12.84%	41,345	4,653	2,696	4
Cold Rolled Strip	452	5.34%	24,137	2,982	(427)	2
Electrical Sheet and Strip	424	4.98%	21,115	2,307	(299)	2
Stainless Plate	86	5.89%	5,065	0	(177)	
Stainless Sheet and Strip	1,023	5.94%	60,766	6,064	59	4
Tin Plate	2,622	2.96%	77,611	7,994	2,664	8
Tin-Free Steel	933	4.22%	39,373	3,683	2,785	4
Other Coated Flat Rolled Products	10,175	4.51%	458,893	52,767	(7,081)	50
Electroalvanized	n/a	***	114,723	13,192	n/a	12
Rebar	3,980	0.09%	3,582	440	(92)	
Hot Finished Bar	5,672	3.09%	175,265	18,313	5,315	11
Cold Finished Bar	1,204	6.63%	79,825	8,592	1,658	1
Stainless Bar	151	7.40%	11,174	1,131	(296)	
Carbon Wire Rod	4,044	5.70%	230,508	27,465	(6,384)	21
Stainless Wire Rod	45	13.16%	5,922	0	(132)	
Alloy Wire Rod	141	19.68%	27,749	2,818	0	
Bar Shapes Under 80mm	1,093	2.48%	27,106	3,506	(7,043)	
Structurals	4,686	14.15%	663,098	76,930	32,754	71
Sheet Piling	274	23.70%	64,889	7,528	3,205	
Fabricated Structurals	n/a	****	16,546	1,655	n/a	
Stainless Wire	32	15.34%	4,909	528	0	
Wire Strand	n/a	****	49,800	4,980	n/a	
Wire Rope	n/a	****	9,800	980	n/a	
Carbon/Alloy Wire	n/a	****	182,600	18,260	n/a	21
Wire Products	n/a	****	25,500	2,550	n/a	
Rails	467	9.26%	43,244	4,993	2,037	
Rail Products	n/a	****	3,900	390	n/a	
Total Pipe and Tube	6,289	8.82%	554,690	54,486	(14,641)	51
OCTG	1,307	9.00%	117,630	12,506	(14,130)	1
Alloy Tool Steel	68	11.02%	7,494	(300)	110	
Other Specialty Steel	n/a	****	12,100	1,210	n/a	

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

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

**** Export ceilings are fixed tonnages.

n/a Not Applicable

FINLAND

August 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	78,231	0.016%	12,517	6,000	255	18,772
Carbon/Alloy Flat Rolled	30,444	0.442%	134,562	4,500	7,863	146,925
Cold Rolled Sheet	10,807	0.114%	12,320	+++	511	12,831
Cold Rolled Strip	452	0.457%	2,066	+++	(37)	2,029
Stainless Flat Rolled	1,109	0.978%	10,846	+++	(20)	10,826
Coated Flat Rolled	13,730	0.130%	17,849	+++	(1)	17,848
Electrogalvanized Sheet	2,050	0.130%	2,766	+++	(187)	2,579
Bar and Rod	15,237	0.037%	5,638	1,500	(8)	7,130
Carbon Cold Finished Bar	969	0.010%	97	+++	3	100
Wire and Wire Products	1,330	0.024%	319	+++	(32)	287
Pipe and Tube	6,289	0.140%	8,805	+++	(232)	8,573
OCTG	1,307	0.200%	2,614	+++	(314)	2,300
Other Steel Products	6,837	0.012%	820	+++	(19)	801

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

+++ Not yet available

J A P A N

August 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	Adjust Fir Peri Expc Ceili
Semi-Finished Steel	97,789	0.088%	86,054	6,125	1,400	93,5
Plate	5,890	1.050%	61,845	4,279	(644)	65,4
Sheet and Strip	50,714	6.090%	3,088,467	207,677	105,489	3,401,6
Cold Rolled Sheet and Strip	14,074	4.870%	685,392	39,168	20,196	744,7
Coated Sheet and Strip	12,719	12.500%	1,589,844	109,418	(18,353)	1,680,9
Electrogalvanized	2,563	16.820%	431,013	29,371	(23,602)	436,7
Electrical Sheet and Strip	530	7.090%	37,577	1,050	(400)	38,2
Tin Plate	3,278	6.150%	201,566	3,178	5,211	209,9
Tin-Free Steel	1,166	7.030%	81,987	(1,122)	4,369	85,2
Bar	13,570	0.640%	86,848	5,814	570	93,2
Cold Finished	1,505	2.130%	32,057	2,074	500	34,6
Stainless Bar	189	10.470%	19,762	1,280	(419)	20,6
Wire Rod and Wire Products	6,894	6.400%	441,200	31,892	(14,713)	458,3
Carbon/Alloy Wire Rod	5,231	6.300%	329,569	23,538	(6,642)	346,4
Stainless Rod	56	10.440%	5,873	106	(104)	5,8
Structural Shapes	8,461	7.550%	638,824	45,090	(11,305)	672,6
Rail and Rail Products	945	10.150%	95,918	(2,901)	(11,472)	81,5
Fabricated Structural	n/a	***	63,066	4,036	n/a	67,1
Welded H-Beams	n/a	***	37,500	2,400	n/a	39,9
Pipe and Tube	7,861	9.190%	722,449	30,009	(14,359)	738,0
OCTG	1,634	9.660%	157,820	7,226	(15,166)	149,8
Line Pipe	2,501	16.480%	412,206	18,227	6,984	437,4
Structural Pipe	471	12.760%	60,132	3,932	(3,600)	60,4
Alloy Tool Steel	85	5.890%	5,007	400	59	5,4

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

O R E A

Just 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	97,789	0.271%	265,008	+++	4,312	269,320
Plate	5,783	1.170%	67,655	+++	(707)	66,948
Sheet and Strip	49,435	2.380%	1,176,553	+++	38,640	1,215,193
HR S & S	17,669	3.160%	558,333	+++	35,034	593,367
CR S & S	14,074	2.520%	354,659	+++	10,780	365,439
C/A Strip	n/a	***	1,500	+++	n/a	1,500
Coated	12,719	1.800%	228,938	+++	(2,700)	226,238
Electro-Galv	n/a	***	33,750	+++	n/a	33,750
Electrical	n/a	***	1,500	+++	n/a	1,500
Stainless Flat-Rolled	1,386	0.940%	13,031	+++	(17)	13,014
Wire	13,570	0.640%	86,848	+++	599	87,447
Stainless Bar	189	1.600%	3,020	+++	(62)	2,958
Wire Rod & Wire Prod.	6,894	2.430%	167,518	+++	(5,783)	161,735
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	+++	(19)	1,095
Structurals	8,461	1.380%	116,765	+++	(2,147)	114,618
Rails	584	0.650%	3,794	+++	139	3,933
b. Structurals	n/a	***	68,040	+++	n/a	68,040
Wire Rope	n/a	***	57,500	+++	n/a	57,500
Wire Strand	n/a	***	36,751	+++	n/a	36,751
Pipe & Tube	7,861	7.900%	621,039	+++	(12,732)	608,307
Structural	471	4.430%	20,876	+++	(1,329)	19,547
OCTG	1,634	2.900%	47,379	+++	(4,553)	42,826
Standard	2,060	17.930%	369,358	+++	(2,690)	366,668
Tool Steel	85	2.160%	1,836	+++	21	1,857

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

a Not Applicable

MEXICO

August 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 Forecasted Consumption
Semi-Finished Steel	97,789	0.27%	264,030	+++	3,818	267
C/A Flat Rolled	38,055	0.33%	125,582	+++	4,981	130
C/A HR Sheet and Strip	17,669	0.27%	47,706	+++	3,236	50
C/A CR Sheet and Strip	14,074	0.22%	30,962	+++	836	31
Plate	5,783	0.81%	46,838	+++	(434)	46
Stainless Flat Rolled	1,386	1.02%	14,140	+++	(18)	14
Coated Flat Rolled	17,163	0.77%	132,151	+++	(7)	132
Bar and Rod	19,046	1.15%	219,032	+++	(218)	218
Carbon CF Bar	1,211	0.62%	7,510	+++	143	7
Carbon Wire Rod	5,055	2.51%	126,881	+++	(2,430)	124
Stainless Bar and Rod	245	0.03%	74	+++	(2)	
Angles, Shapes, Sections/Rail and Rail Products	8,461	0.83%	70,228	+++	(1,145)	69
Wire and Wire Products	1,663	3.47%	57,689	+++	(3,960)	53
Wire Rope	208	2.94%	6,101	+++	1,981	8
Wire Strand	n/a	***	2,317	+++	n/a	2
Panels and Mesh	1,623	1.00%	16,225	+++	(1,135)	15
Other Wire and Wire Products and Fence	1,623	2.10%	34,073	+++	(2,402)	31
Pipe and Tube	7,861	2.95%	231,907	+++	(4,233)	227
OCTG	1,634	2.60%	42,478	+++	(3,140)	39
Line Pipe	2,501	4.17%	104,302	+++	1,638	105
Standard Pipe	2,060	4.83%	99,498	+++	(632)	98
Tool Steel	85	0.36%	306	+++	3	

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

August 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	39,441	0.223%	87,954	+++	3,963	91,917
Coated Flat-Rolled	17,163	0.195%	33,467	+++	(2)	33,465
Bar and Rod	19,046	0.358%	68,186	+++	(79)	68,107
Carbon Wire Rod	5,055	0.339%	17,136	+++	(380)	16,756
Rebar	4,975	0.754%	37,512	+++	(769)	36,743
Pipe & Tube	7,861	0.844%	66,349	+++	(1,401)	64,948
OCTG	1,634	0.000%	0	+++	0	0
Line	2,501	2.246%	56,178	+++	1,011	57,189
Standard	2,060	0.540%	11,124	+++	(81)	11,043
Other Steel Products	10,209	0.129%	13,169	+++	(374)	12,795
Semi-Finished	97,789	0.069%	67,474	+++	1,098	68,572

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)

POLAND

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

EAST GERMANY

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

YUGOSLAVIA

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

HUNGARY

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

CZECHOSLOVAKIA

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

ROMANIA

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

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