

MONTHLY REPORT ON THE STATUS OF THE STEEL INDUSTRY

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Competitive Trends in the Market for Structural Steel Shapes and Units

Material Competitiveness

Structural steel shapes and units¹ compete closely with reinforced concrete as the load-bearing, structural material for buildings and bridges. The relative cost competitiveness of the two is site specific and dependent on a variety of factors.² However, structural steel's overall market position has improved because of recent steps taken by steel manufacturers, fabricators, and service centers. Examples of such efforts include the following:

- In the early 1980s, British Steel Corporation launched an intensive marketing and education campaign to increase the use of structural steel in single- and multi-story buildings. Since then, steel usage in structural applications in the UK construction market has roughly doubled, to a 60 percent share. The apparent success of the program has spawned a new £1.3 million (\$830,000) educational effort by a consortium of European steelmakers, professional organizations, universities, and the EC's technical training program, Comett. The initiative, known as the European Steel Design Education Programme (Esdep), seeks to increase the level of steel used in structural applications on the European continent, where steel's current share is 33 percent.

- Certain steel service centers have begun to fill a niche between traditional service centers and fabricators. These centers are investing in expensive, computerized equipment to perform basic fabricating operations, such as cutting, coping and drilling--operations that often require costly layouts if performed manually. Because of limited volumes, small and medium-sized fabricators cannot afford to invest in such equipment. The services not only reduce the fabricators' costs, but also allow them to shorten lead times and increase volumes and productivity.

- In 1986, the American Institute of Steel Construction (AISC)³ adopted the Load and Resistance Factor Design (LRFD) method, a new standard for designing steel-framed buildings. The LRFD method replaces the Allowable Stress Design method, the standard since 1923. Designing with LRFD allows average reductions in material costs of about 15 percent. Code acceptance procedures delayed completion of the first LRFD buildings until mid-1988. The new method also improves the performance of a building by yielding higher load capacities and larger areas between supporting columns.

¹ This discussion is concerned primarily with medium and heavy rolled shapes (any cross-sectional dimension greater than 3 inches) and fabricated units included in American Iron and Steel Institute product categories 4, 38, and 39.

² These factors include, but are not limited to, geographic location and intended use of the structure, prevailing climactic, atmospheric and seismic conditions, price and availability of certain skilled labor, and architectural preferences.

³ AISC is a standards and trade organization comprised of U.S. structural steel fabricators.

● NKK, a major Japanese steel producer, recently introduced a structural steel grade which exhibits improved heat resistance. The new steel can withstand temperatures 100° to 150° Celsius higher than conventional steels while maintaining the same yield strength. Lower overall costs are attained due to savings in post erection fire-proofing requirements. However, building codes, which specify what steel grades are acceptable, impede the adoption of this new steel grade until approvals are granted.

Competitiveness of the domestic industry

In the U.S construction market, the improved competitive posture of domestic structural steel has not been limited to matters of material substitution. Structural steel producers and fabricators in the United States, taken as a whole, have steadily improved their share of apparent consumption since 1984. Imports as a share of consumption have fallen from 37.6 percent in 1984 to 29.6 percent in 1988. Year to date figures indicate the trend continuing, with current import penetration standing at 25.8 percent through August.

U.S. producers have recently improved their export performance as well. After a low of 71,525 tons exported in 1986, export shipments rose to 111,614 tons in 1988. Export shipments through August 1989 are well ahead of last year's total, with 171,281 tons shipped to foreign destinations. Declining domestic demand in the last two quarters of 1989 will increase pressures on manufacturers to seek export sales.

Much of the recent increase in exports is attributable to the efforts of Chaparral Steel Co., Midlothian, TX. Chaparral has pursued an export strategy concentrating on markets in Europe and Japan. It is the first North American steelmaker to obtain approval from JIS, the Japanese standards organization. JIS certification is required for materials to be used in most building projects in Japan. Other structural producers, including Nucor-Yamato and Northwestern Steel and Wire, have indicated that they either have been or will be seeking export sales.

Much of the improved competitiveness of domestic manufacturers vis-a-vis foreign producers is related to more competitive (i.e., lower) prices. The mid-1988 opening of Nucor-Yamato's state-of-the-art structural mill in Blytheville, AK, for example, resulted in downward pressure on prices, especially in southern states. A round of price reductions in June and July, and another round in September, have served to lower prices by approximately 10 percent. Minimill list prices for A36 grade material, the standard carbon steel structural grade, are at about \$365-\$370 per ton, whereas minimill list prices for standard high strength material (A572) are at about \$375-\$380 per ton. Integrated list prices (before discounting) are up to 30 percent higher. Transaction prices are likely to be close to the minimill list prices.

Imported structural shapes compete primarily on a price basis with domestic material⁴ and the recent price reductions by domestic producers have brought the selling prices of domestic products down to prevailing import prices. Importers of structural shapes are finding it increasingly difficult to compete in the domestic market; import levels through September are 20 percent

⁴ The primary exceptions are very large rolled beams (with a web depth exceeding 36 inches) which are not produced by U.S. firms.

lower in 1989 than in 1988. Of the 20 VRA signatories, the seven⁵ which have specific quota levels for structural shapes and units typically account for over 99 percent of such imports from VRA countries. Imports through the end of September indicate that these seven sources may undership their quotas by 20 to 25 percent.

Short-term cyclical forces and long-term structural forces should combine to hold down prices for medium and heavy standard beams, channels, and wide flange beams. Seasonal demand fluctuations and reports of large inventories being held by service centers and fabricators will apparently continue to hold prices from rising in the near term. Northwestern's planned 1990 reopening of a 600,000 ton-per-year mill in Houston is expected to further reduce the average cost structure of the U.S. industry. It will also increase productive capacity for certain sizes and shapes well beyond domestic requirements. The presence of this additional low cost capacity may serve as the impetus to the closure of some integrated mill capacity.

Mark Paulson
252-1432

⁵ Brazil, European Community, Japan, Mexico, Poland, Korea, and Spain.

Monthly Summary
Subject Index

	<u>USITC</u>	
	<u>Publication</u>	<u>Date</u>
Trade with VRA and non-VRA countries; product trade assessment-----	1852	6/86
Unit values of imported steel; product mix-----	1869	6/86
Imports by customs areas-----	1878	7/86
Imports of semifinished steel-----	1887	8/86
Imports of pipe and tube-----	1894	9/86
Imports of carbon and alloy wire-----	1901	10/86
Imports of wire products-----	1913	11/86
Imports of specialty steel products-----	1933	12/86
Imports of carbon and alloy sheet and strip; VRA developments with South Africa and Austria; Taiwan-----	1942	1/87
Trade with VRA and non-VRA countries; the non-VRA countries; product trade assessment-----	1953	2/87
Imports of carbon and alloy heavy fabricated structural products-----	1974	5/87
Imports of carbon and alloy steel wire rod-----	1984	6/87
Imports of carbon and alloy steel plate-----	1993	7/87
Presidential decision on imports of certain specialty steel products-----	1998	8/87
Shifts in non-VRA market shares, by product-----	2007	9/87
Unit values of certain steel products-----	2022	10/87
Imports by customs areas-----	2029	11/87
Imports of semifinished steel-----	2039	12/87
Imports and exports of carbon and alloy sheet and strip-----	2049	1/88
Imports of wire products-----	2056	2/88
Annual summary of trade with VRA and non-VRA countries; product trade assessment-----	2064	3/88
The domestic iron and steel scrap market-----	2072	4/88
Fabricated structural steel-----	2074	5/88
Specialty steel products-----	2088	6/88
Pipe and tube products-----	2092	7/88
Steel pricing: domestic and international developments-----	2102	8/88
Wire rod, wire and wire products-----	2114	9/88
U.S. trade in tinplate-----	2130	10/88
Steel rebar: domestic market and trade-----	2134	11/88
Heavy structural shapes-----	2141	12/88
Imports by customs areas-----	2146	1/89
Wire rope and strand-----	2153	2/89
Annual summary of trade with VRA and non-VRA countries; product trade assessment-----	2162	3/89

Monthly Summary
Subject Index

	<u>USITC</u>	<u>Date</u>
	<u>Publication</u>	
Imports of pipe and tube products-----	2175	4/89
Specialty steel imports-----	2184	5/89
Imports of semifinished steel-----	2195	6/89
Wire rod-----	2202	7/89
Steel prices-----	2134	8/89
Special quality steel bars-----	2215	9/89
Specialty steel-----	2227	10/89
Galvanized sheet and strip-----	2230	11/89
Structural steel shapes and units-----	2241	12/89

Preface

On April 9, 1986, at the request of the Subcommittee on Trade, Committee on Ways and Means, U.S. House of Representatives, and in accordance with the provisions of section 332(b) of the Tariff Act of 1930 (19 U.S.C. 1332(b)), the United States International Trade Commission instituted investigation No. 332-226, Monthly Reports on the Status of the Steel Industry. The purpose of the reports is to monitor developments in the steel industry through September 1989, which corresponds with the President's program of voluntary restraint arrangements (VRA's) with certain countries and regions which export steel to the United States.

Background of VRA's

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 products¹ were found to be a substantial cause of serious injury, or threat thereof, to certain domestic industries (investigation No. TA-201-51). 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 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 recent years due to an unfair surge in imports. These 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 indicate, would be limited to about 1.7 million tons per year).

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 put 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 currently in effect for a period from July 20, 1987 through September 30, 1989. Under the steel VRA's, 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 VRA's for all countries except the

¹Affirmative 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.

EC-10, which negotiated limits on rods, bars, and alloy tool steel as part of its VRA, Brazil whose VRA now includes the specialty steel products subject to quotas, and Austria, which included alloy tool steel in its VRA.

In this report trade data are reported in a similar format for all product categories; in the case of stainless steel bars, stainless steel rods, and certain alloy tool steel products, however, it should be noted that, except for the EC-10 and Austria, all countries are bound by quotas (see App. C for a description of the specialty steel relief provisions and implementation of modifications in specialty steel import relief).

Current Status of VRA's

On July 25, 1989, President Bush announced his Steel Trade Liberalization Program to extend the VRAs for two and a half years, terminating in March of 1992. On October 2, the House of Representatives passed a bill to grant the President the authority to continue to enforce the VRAs; more recently, the Senate Finance Committee's Subcommittee of International Trade held hearings on the House legislation and recommended passage of the bill without amendment. However, mark-up of the bill by the full Finance Committee has not yet been scheduled. In the interim, United States negotiators are trying to work out new agreements with each of the previous VRA signatories. The actual terms of the new VRAs are not known, as the negotiations are still ongoing.

Countries Subject to VRA's 1/

<u>Market share agreements:</u>	<u>Overall 1989 import share 2/</u> (% of U.S. apparent consumption)
Australia	0.19
Austria	0.16
Brazil	1.09
EC	4.4
Finland	0.17
Japan	6.8
Mexico	0.31
South Africa 3/	0.0
South Korea	2.2
Spain	0.52

Quota level for 1989 in short tons and
as a share of apparent U.S.
consumptionQuota agreements (estimated) 4/

	(Short tons)	(Percent)
Czechoslovakia	29,338	0.03
East Germany	82,500	0.09
Hungary	25,500	0.03
Poland	69,373	0.07
Portugal	20,000	0.02
Romania	76,426	0.08
Trinidad and Tobago	43,984	0.05
Venezuela	130,334	5/ 0.10
Yugoslavia	18,900	0.02
People's Republic of China	57,000	0.06

Semifinished steel agreements Quota level for 1989 (short tons)

Australia	37,500
Brazil	525,000
EC	502,500
Finland	11,250
Japan	75,000
Mexico	75,000
South Africa 3/	0
South Korea	37,500
Spain	37,500
Trinidad and Tobago	2,625
Venezuela	30,000

1/ This page refers to the VRA's that expired October 1, 1989.

2/ Including semifinished steel for all countries. Estimates based on first 9 months of 1989.

3/ Steel imports from South Africa are reduced by the Comprehensive Anti-Apartheid Act of 1986 which embargoes certain steel products.

4/ Including semifinished steel, except as noted. Estimates based on first 9 months of 1989.

5/ Excluding semifinished steel.

Notes on Product Coverage and Methodology

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

The products on which foreign trade data are collected correspond to those covered by the VRA's with the stainless steel wire strand (HS item 7312.10.0500), stainless steel wire rope (HS item 7312.10.5000)., and those subject to limitation under separate specialty steel measures. Since the VRA's include certain fabricated products, the data may exceed that compiled by other organizations such as the AISI. The additional tonnage, however, is relatively small. In 1987 AISI reported imports of 20.4 million tons, which compares to the 20.9 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 term EC in this report does not include Portugal and Spain, which are subject to separate VRA's.

Unit values are calculated using unrounded data. Import values are customs value. Trade data include imports under sections 9802.0060 and 9802.0080 of the Harmonized Tariff Schedules; the 9802.0060 and 9802.0080 provisions apply to U.S. merchandise which is exported, processed, and reimported into the United States.

C O N T E N T S

	<u>Page</u>
Monthly Summary-----	i
Summary Index-----	iii
Preface-----	v
Appendix A: Definition of certain terms, and description of the products subject to the investigation-----	A-1
Appendix B: Definitions of certain specialty steels including alloy tool steel-----	B-1
Appendix C: Specialty steel relief provisions-----	C-1

Tables

1. Steel: U.S. raw steel production, capability utilization, employ- ment, wages, shipments, imports, exports, apparent consumption, net sales, and net income, 1983-87, and by specified periods, 1987 and 1988-----	1
2. Steel mill products and certain fabricated steel products: U.S. producers' shipments, by product and grade of steel, 1983-87, and by specified periods, 1987 and 1988-----	2
3. Steel mill products and certain fabricated steel products: U.S. imports, by product and grade of steel, 1983-87, and by specified periods, 1987 and 1988-----	3
4. Steel mill products and certain fabricated steel products: U.S. exports of domestic merchandise, by product and grade of steel, 1983-87, and by specified periods, 1987 and 1988-----	4
5. Steel mill products and certain fabricated steel products: Apparent U.S. consumption, by product and grade of steel, 1983-87, and by specified periods, 1987 and 1988-----	5
6. Steel mill products and certain fabricated steel products: U.S. imports as a percent of apparent consumption, by product and grade of steel, 1983-87, and by specified periods, 1987 and 1988-----	6
7. Steel mill products and certain fabricated steel products: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	7
8. Steel other than semifinished steel: U.S. imports for consumption, and imports as a percent of apparent U.S. consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	9
9. Semifinished steel: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	11
10. Carbon and certain alloy semifinished steel: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	12

11. Carbon and certain alloy steel plate: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	14
12. Carbon and certain alloy steel sheet and strip: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	16
13. Carbon and certain alloy steel bar and light shapes: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	18
14. Carbon and certain alloy steel wire rod: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	20
15. Carbon and certain alloy steel wire: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	22
16. Carbon and certain alloy steel wire products: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	24
17. Carbon and certain alloy steel structural shapes: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	26
18. Carbon and certain alloy steel rails and related products: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	28
19. Carbon and certain alloy steel pipe and tube: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	30
20. Total, carbon and certain alloy steel products: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	32
21. Stainless semifinished steel: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	34
22. Stainless steel plate: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	36
23. Stainless steel sheet and strip: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	38
24. Stainless steel bars and shapes: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	40
25. Stainless steel wire rod: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	42
26. Stainless steel wire: U.S. imports for consumption by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	44
27. Stainless steel pipe and tube: U.S. imports for consumption by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	46
28. Alloy tool steel (all forms): U.S. imports for consumption by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	48

29.	Total, stainless and alloy tool steel products: U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	50
30.	Steel mill products and certain fabricated steel products: Unit value of U.S. imports for consumption, by specified sources, 1986, 1987, and by specified periods, 1987 and 1988-----	52
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, 1986, 1987, and by specified periods, 1987 and 1988-----	54
32.	Steel mill products and certain fabricated steel products: U.S. imports for consumption, by customs areas, 1986, 1987, and by specified periods, 1987 and 1988-----	60
33.	Steel mill products and certain fabricated steel products: U.S. imports for consumption, through the Atlantic Coast customs area, 1986, 1987, and by specified periods, 1987 and 1988-----	61
34.	Steel mill products and certain fabricated steel products: U.S. imports for consumption, through the Great Lakes-Canadian border customs area, 1986, 1987, and by specified periods, 1987 and 1988-----	62
35.	Steel mill products and certain fabricated steel products: U.S. imports for consumption, through the Gulf Coast-Mexican border customs area, 1986, 1987, and by specified periods, 1987 and 1988-----	63
36.	Steel mill products and certain fabricated steel products: U.S. imports for consumption, through Off-shore customs area, 1986, 1987, and by specified periods, 1987 and 1988-----	64
37.	Steel mill products and certain fabricated steel products: U.S. imports for consumption, through the Pacific Coast customs area, 1986, 1987, and by specified periods, 1987 and 1988-----	65

Table 2.--Steel mill products and certain fabricated steel products: U.S. producers shipments, by product and grade of steel, 1984-1988, and by specified periods, 1988 and 1989
(Short tons)

Item	1988					January-September	
	1984	1985	1986	1987	1988	1988	1989
All grades of steel:							
Semifinished:							
Plate	1,306,044	1,374,524	1,388,649	2,095,599	1,746,267	1,145,307	1,468,963
Sheet and strip	4,338,993	4,327,347	3,531,806	4,065,183	7,361,445	5,471,550	5,577,223
Bars and certain shapes 1/	40,878,749	40,850,298	40,055,641	43,288,266	44,707,915	33,405,832	34,577,761
Wire rod	13,232,473	12,667,539	12,101,642	12,937,033	14,618,068	10,662,474	11,071,739
Wire	3,090,036	2,961,769	3,493,632	3,838,788	4,044,688	3,035,117	3,223,029
Wire products	962,726	874,135	797,859	786,963	1,072,698	839,498	793,365
Structural shapes & units:	259,616	262,268	278,068	304,761	3/	3/	3/
Rails & related products:	4,156,233	4,698,305	4,815,432	5,081,809	5,313,459	3,972,703	4,174,822
Pipe and tube	1,238,900	931,313	647,697	504,561	507,278	434,773	434,858
Total	4,275,759	4,095,825	2,836,458	3,569,647	4,443,251	3,432,650	3,032,814
Carbon and certain alloy 2/	73,739,529	73,043,323	69,946,884	76,472,610	83,815,069	62,424,023	64,354,574
Steel:							
Semifinished:							
Plate	1,266,364	1,327,766	1,339,062	2,018,535	1,828,600	1,252,430	1,404,283
Sheet and strip	4,223,128	4,185,883	3,415,947	3,906,102	7,178,573	5,339,987	5,445,859
Bars and certain shapes	40,058,979	40,018,167	39,286,239	42,347,623	43,663,695	32,615,276	33,819,517
Wire rod	13,031,564	12,478,002	11,926,843	12,753,157	14,414,095	10,508,843	10,920,764
Wire	3,038,112	2,931,897	3,457,233	3,791,034	3,986,930	2,993,139	3,193,366
Wire products	933,382	851,841	773,204	760,229	1,043,112	817,704	773,830
Structural shapes & units:	259,616	262,268	278,068	304,761	3/	3/	3/
Rails & related products:	4,156,233	4,698,305	4,815,432	5,081,809	5,313,459	3,972,703	4,174,822
Pipe and tube	1,238,900	931,313	647,697	504,561	507,278	434,773	434,858
Total	4,224,071	4,046,771	2,794,218	3,527,867	4,387,761	3,391,456	2,995,111
Stainless steel:							
Semifinished:							
Plate	72,430,349	71,732,213	68,703,943	74,995,678	82,323,503	61,350,430	63,162,410
Sheet and strip							
Bars and certain shapes							
Wire rod							
Wire							
Wire products							
Structural shapes & units:							
Rails & related products:							
Pipe and tube							
Total							
Stainless steel:							
Semifinished:							
Plate	39,680	46,758	49,587	77,064	79,953	55,163	64,680
Sheet and strip	115,865	141,464	115,859	159,081	182,872	131,563	131,364
Bars and certain shapes	819,770	832,131	799,402	940,643	1,044,220	790,556	758,244
Wire rod	139,980	129,267	119,024	125,641	139,696	105,995	101,815
Wire	51,924	29,872	36,399	47,754	57,758	41,978	29,663
Wire products	29,344	22,294	24,655	26,754	29,586	21,794	19,535
Pipe and tube	51,688	49,054	42,240	41,780	55,490	41,194	37,103
Tool steel (all forms)	60,929	60,270	55,775	58,635	64,277	47,636	49,160
Total	1,309,180	1,311,110	1,242,941	1,476,932	1,653,852	1,235,879	1,192,164

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, 1984-1988, and by specified periods, 1988 and 1989

(Short tons)

Item	1988				1989	
	1984	1985	1986	1987	1988	1989
All grades of steel:						
Semifinished:	1,632,065	2,440,368	2,084,322	2,288,995	2,864,979	2,302,598
Plate	1,782,050	1,772,309	1,456,790	1,566,694	1,872,937	1,453,482
Sheet and strip	10,332,032	9,046,089	8,278,604	7,875,891	7,303,964	5,455,835
Bars & certain shapes 1/	1,722,313	1,550,559	1,476,368	1,359,758	1,445,932	1,090,438
Wire rod	1,589,788	1,476,145	1,362,753	1,467,030	1,493,833	1,153,823
Wire	671,829	612,485	582,022	555,981	540,380	414,721
Wire products	738,680	674,960	636,591	649,377	572,451	433,798
Structural shapes & units	2,432,694	2,440,403	2,179,657	2,153,669	2,188,467	1,724,521
Rails & related products	373,890	382,046	275,710	245,988	319,432	224,024
Pipe and tube	5,429,839	4,489,287	2,956,303	2,775,091	3,286,690	2,565,372
Total	26,705,180	24,884,651	21,289,120	20,938,674	21,869,065	16,818,612
Carbon & certain alloy steel:						
Semifinished:	1,618,365	2,430,078	2,066,700	2,232,270	2,782,572	2,254,565
Plate	1,774,614	1,760,812	1,440,375	1,555,577	1,857,090	1,442,504
Sheet and strip	10,194,435	8,910,469	8,127,033	7,746,596	7,185,380	5,368,678
Bars & certain shapes	1,652,025	1,475,447	1,393,731	1,281,168	1,361,113	1,025,598
Wire rod	1,570,952	1,456,078	1,344,256	1,448,720	1,474,623	1,139,854
Wire	649,126	590,317	564,481	536,897	519,727	400,706
Wire products	738,680	674,960	636,591	649,377	572,451	433,798
Structural shapes & units	2,432,694	2,440,403	2,179,657	2,153,669	2,188,467	1,724,521
Rails & related products	373,890	382,046	275,710	245,988	319,432	224,024
Pipe and tube	5,399,642	4,457,277	2,923,029	2,748,644	3,249,937	2,536,935
Total	26,404,423	24,577,887	20,951,563	20,598,906	21,510,792	16,551,183
Stainless & alloy tool steel:						
Semifinished:	13,700	10,290	17,622	56,725	62,407	48,033
Plate	7,436	11,497	16,415	11,118	15,847	10,978
Sheet and strip	137,597	135,620	151,571	129,295	118,584	87,157
Bars & certain shapes	38,234	37,970	37,888	37,991	40,724	30,311
Wire rod	18,835	20,067	18,496	18,311	19,210	13,968
Wire	22,703	22,169	17,541	19,084	20,653	14,015
Pipe and tube	30,197	32,009	33,274	26,448	36,752	28,438
Tool steel (all forms)	32,054	37,142	44,749	40,599	44,095	34,529
Total	300,756	306,764	337,556	339,571	358,272	267,429

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, 1984-1988, and by specified periods, 1988 and 1989

(Short tons)

Item	1988					January-September	
	1984	1985	1986	1987	1988	1988	1989
All grades of steel:							
Semifinished	73,536	89,708	58,885	73,543	61,430	33,357	303,528
Plate	88,184	82,988	69,565	96,538	119,393	83,376	507,215
Sheet and strip	389,577	375,396	507,420	556,991	1,374,056	646,469	1,752,900
Bars & certain shapes 1/	133,595	99,096	81,224	121,869	141,461	99,727	209,591
Wire rod	8,646	4,740	5,876	8,217	10,161	6,965	26,281
Wire	19,979	19,146	26,760	26,669	36,668	24,653	23,552
Wire products	22,085	19,253	24,731	23,257	27,847	19,787	16,296
Structural shapes & units	119,256	89,031	71,525	101,373	111,614	83,303	194,838
Rails & related products	19,079	13,430	13,131	15,755	18,855	15,939	66,688
Pipe and tube	207,426	199,258	121,050	152,155	250,390	155,699	367,329
Total	1,081,363	992,046	980,167	1,176,367	2,151,875	1,169,275	3,468,218
Carbon & certain alloy 2/							
Semifinished	72,285	82,650	57,932	71,362	58,598	30,135	295,914
Plate	84,813	74,957	66,042	92,057	107,546	74,026	501,248
Sheet and strip	369,495	349,620	477,803	501,010	1,328,485	611,640	1,712,975
Bars & certain shapes	126,090	89,241	72,134	111,619	124,911	89,388	178,349
Wire rod	7,918	3,716	5,049	6,889	8,676	6,079	22,141
Wire	17,524	17,182	24,033	22,863	32,209	21,996	21,441
Wire products	22,085	19,253	24,731	23,257	27,847	19,787	16,296
Structural shapes & units	119,256	89,031	71,525	101,373	111,614	83,303	194,838
Rails & related products	19,079	13,430	13,131	15,755	18,855	15,939	66,688
Pipe and tube	199,778	193,309	118,010	143,405	244,192	151,378	360,919
Total	1,038,323	932,369	930,390	1,089,590	2,062,933	1,103,671	3,370,809
Stainless & alloy tool							
Stainless steel:							
Semifinished	1,251	7,058	953	2,181	2,833	3,222	7,614
Plate	3,371	8,031	3,523	4,481	11,847	9,350	5,967
Sheet and strip	20,081	25,776	29,617	55,981	45,571	34,829	39,925
Bars & certain shapes	5,178	7,762	6,946	7,189	12,047	7,246	13,591
Wire rod	728	1,024	828	1,328	1,486	886	4,139
Wire	2,455	1,964	2,728	3,806	4,459	2,657	2,111
Pipe and tube	7,648	5,948	3,040	8,751	6,198	4,321	6,410
Tool steel (all forms)	2,326	2,094	2,144	3,061	4,502	3,093	17,650
Total	43,038	59,657	49,779	86,778	88,943	65,604	97,407

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 6.--Steel mill products and certain fabricated steel products: U.S. imports as a percent of apparent consumption, by product and grade of steel, 1984-1988, and by specific periods, 1988 and 1989

(Percent)

Item	1984					1985					1986					1987					1988					January-September 1989									
All grades of steel:																																			
Semifinished	57.0					65.5					61.1					53.1					62.8					67.4					59.9				
Plate	29.5					29.5					29.6					28.3					20.5					21.2					16.7				
Sheet and strip	20.3					18.3					17.3					15.6					14.4					14.3					12.4				
Bars and certain shapes 1/	11.6					11.0					10.9					9.6					9.1					9.4					8.0				
Wire rod	34.0					33.3					28.1					27.7					27.0					27.6					22.1				
Wire	41.0					41.0					43.0					42.0					39.0					96.0					5.0				
Wire products	75.7					73.5					71.5					69.2					37					37					37				
Structural shapes & units	37.6					34.6					31.5					30.2					29.6					30.7					25.1				
Rails & related products	23.5					29.4					30.3					33.5					39.5					34.8					39.1				
Pipe and tube	57.2					53.5					52.1					44.8					43.9					43.9					39.0				
Total	26.9					25.7					23.6					21.8					21.1					21.5					18.1				
Carbon & certain alloy 2/																																			
Semifinished	57.5					66.1					61.7					53.4					61.1					64.8					60.4				
Plate	30.0					30.0					30.1					29.0					20.8					21.5					16.9				
Sheet and strip	20.4					18.3					17.3					15.6					14.5					14.4					12.4				
Bars and certain shapes	11.3					10.6					10.5					9.2					8.7					9.0					7.4				
Wire rod	34.1					33.2					28.0					27.7					27.0					27.6					22.0				
Wire	41.0					41.0					43.0					42.0					39.0					44.0					47.0				
Wire products	75.7					73.5					71.5					69.8					37					37					37				
Structural shapes & units	37.6					34.6					31.5					30.2					29.6					30.7					25.1				
Rails & related products	23.5					29.4					30.3					33.5					39.5					34.8					39.1				
Pipe and tube	57.3					53.6					52.2					44.8					44.0					43.9					38.9				
Total	27.0					25.8					23.6					21.8					21.1					21.6					18.0				
Stainless & alloy tool steel:																																			
Semifinished	26.3					20.6					26.6					43.1					44.7					48.0					46.4				
Plate	6.2					7.9					12.7					6.7					8.5					8.2					8.8				
Sheet and strip	14.7					14.4					16.5					12.8					10.6					10.3					12.3				
Bars and certain shapes	22.1					23.8					25.3					24.3					24.2					23.5					21.8				
Wire rod	26.9					41.0					34.2					28.3					25.4					25.4					39.0				
Wire	45.8					52.2					44.4					45.4					42.7					42.3					48.2				
Pipe and tube	40.7					42.6					45.9					44.5					42.7					43.5					48.6				
Tool steel (all forms)	35.4					39.0					45.5					42.3					42.5					43.7					69.0				
Total	19.2					19.7					22.1					19.6					18.6					18.6					22.6				

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".

Table 7.--Steel mill products and certain fabricated steel products: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987		1988		January--September	
	1987	1988	1988	1989	1988	1989
	Quantity (short tons)					
VRA countries:						
Australia -----	155,112	282,085	215,488	234,225		
Austria -----	119,666	138,101	94,541	52,964		
Brazil -----	1,152,972	1,476,896	1,095,867	1,112,173		
Czechoslovakia -----	29,792	37,301	31,579	5,948		
East Germany -----	95,910	92,239	67,137	44,424		
EC countries -----	5,314,371	5,766,991	4,284,586	3,699,033		
Finland -----	174,889	212,989	147,579	143,105		
Hungary -----	27,064	30,094	21,531	21,572		
Japan -----	4,384,621	4,343,898	3,282,489	2,803,941		
Mexico -----	491,204	488,367	381,978	349,634		
Peoples Rep of China -----	51,107	68,840	46,589	40,393		
Poland -----	91,936	89,648	80,970	42,204		
Portugal -----	31,087	22,739	17,547	4,023		
Romania -----	82,408	102,548	95,398	32,695		
Republic of South Africa -----	30,015	1,693	1,693	698		
Korea, Republic of -----	1,434,872	1,572,602	1,193,981	804,046		
Spain -----	520,988	486,490	387,731	399,845		
Trinidad and Tobago -----	62,575	31,518	25,873	32,696		
Venezuela -----	170,571	169,383	135,119	72,325		
Yugoslavia -----	15,394	12,751	10,502	5,598		
Total-----	14,436,554	15,427,173	11,618,178	9,901,542		
Other countries:						
Canada -----	3,809,440	3,430,920	2,698,909	2,429,244		
Sweden -----	609,367	575,055	493,419	197,822		
Argentina -----	346,494	558,011	491,002	178,376		
Turkey -----	407,413	307,985	275,639	171,662		
Indonesia -----	235,573	281,142	202,681	54,590		
Taiwan -----	263,415	252,112	199,173	118,165		
Norway -----	154,231	181,502	134,463	68,502		
Thailand -----	120,179	160,364	133,211	48,457		
Singapore -----	144,538	153,164	12,155	64,718		
India -----	60,774	100,261	8,512	76,227		
All others -----	350,496	441,375	372,270	153,882		
Total-----	6,501,920	6,441,891	5,200,434	3,561,645		
Grand total-----	20,938,474	21,869,064	16,818,612	13,463,187		

Table 7.--Steel mill products and certain fabricated steel products: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	70,374	118,494	86,390	103,558
Austria -----	58,007	82,907	58,390	44,791
Brazil -----	328,749	463,632	336,397	372,074
Czechoslovakia -----	7,156	12,019	9,858	2,054
East Germany -----	25,328	31,340	21,223	14,820
EC countries-----	2,197,086	2,721,224	1,980,180	1,964,964
Finland -----	65,035	101,105	71,176	62,641
Hungary -----	6,191	8,600	5,845	6,952
Japan -----	2,189,840	2,562,005	1,907,133	1,827,498
Mexico -----	204,210	240,693	183,955	180,654
Peoples Rep of China -----	23,586	27,574	18,257	23,329
Poland -----	27,141	30,281	26,692	15,578
Portugal -----	15,163	10,575	8,863	2,996
Romania -----	25,093	36,063	33,354	11,690
Republic of South Africa ----	7,322	1,487	1,487	555
Korea, Republic of -----	633,718	770,065	577,479	421,562
Spain -----	200,168	249,811	188,569	214,180
Trinidad and Tobago -----	15,482	8,602	6,973	10,191
Venezuela -----	48,835	53,699	43,535	30,008
Yugoslavia -----	5,404	5,947	4,902	2,384
Total-----	6,153,888	7,536,123	5,576,658	5,312,479
Other countries:				
Canada -----	1,660,699	1,706,602	1,331,525	1,293,215
Sweden -----	301,016	358,878	283,468	203,783
Argentina -----	122,695	221,845	191,852	86,974
Turkey -----	123,568	93,038	79,969	54,709
Indonesia -----	56,949	81,687	56,389	19,089
Taiwan -----	118,228	134,663	101,616	78,684
Norway -----	39,735	55,371	38,551	24,857
Thailand -----	43,817	65,625	53,720	21,619
Singapore -----	42,953	50,365	36,868	24,808
India -----	22,889	43,769	37,638	32,227
All others-----	124,712	164,938	132,173	78,641
Total-----	2,657,261	2,976,781	2,343,769	1,918,606
Grand total-----	8,811,149	10,512,904	7,914,427	7,231,085

Table 8.--Steel other than semifinished steel: $\frac{1}{2}$ U.S. imports for consumption, and imports as a percent of apparent U.S. consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January-September	
			1988	1989
Quantity (Short tons)				
VRA countries:				
Australia -----	155,077	202,683	141,796	169,898
Austria -----	119,666	138,029	94,507	52,964
Brazil -----	671,685	755,083	552,785	548,021
Czechoslovakia -----	29,792	37,301	31,579	5,948
East Germany -----	95,909	92,239	67,137	44,424
EC-----	4,358,698	4,611,870	3,349,968	2,978,782
Finland -----	160,941	209,750	144,340	126,389
Hungary -----	26,495	30,094	21,531	21,572
Japan -----	4,291,332	4,264,692	3,224,034	2,732,748
Mexico -----	429,320	424,451	326,238	273,682
Peoples Rep of China -----	51,093	68,840	46,589	40,388
Poland -----	90,476	89,295	80,617	41,937
Portugal -----	31,087	22,739	17,547	4,023
Romania -----	82,408	102,548	95,398	32,695
Republic of South Africa ----	7,437	1,693	1,693	692
Korea, Republic of -----	1,407,830	1,515,157	1,166,887	760,813
Spain -----	484,083	449,539	353,906	387,924
Trinidad and Tobago -----	62,575	28,460	22,815	32,696
Venezuela -----	130,749	119,720	104,410	72,325
Yugoslavia -----	15,394	12,751	10,502	5,598
Total-----	12,702,047	13,176,934	9,854,279	8,333,519
Other countries:				
Canada -----	3,673,795	3,327,082	2,608,968	2,334,448
Argentina -----	343,363	535,190	468,181	178,315
Turkey -----	407,413	307,985	275,639	171,662
Indonesia -----	234,667	276,988	198,532	54,590
Sweden -----	267,311	269,005	212,992	130,061
Taiwan -----	263,415	252,112	199,173	118,165
Thailand -----	120,179	160,364	133,211	48,457
Singapore -----	144,538	153,164	112,155	64,718
Norway -----	109,791	116,917	86,393	62,625
India -----	60,774	100,261	87,512	76,227
All others-----	322,184	348,084	278,978	148,000
Total-----	5,947,430	5,847,152	4,661,734	3,387,268
Grand total-----	18,649,477	19,024,086	14,516,013	11,720,787

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, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January-September	
			1988	1989
Import/consumption ratio (percent)				
VRA countries:				
Australia -----	.2	.2	.2	.2
Austria -----	.1	.1	.1	.1
Brazil -----	.7	.8	.8	.8
Czechoslovakia -----	2/	2/	2/	2/
East Germany -----	.1	.1	.1	.1
EC-----	4.8	4.7	4.5	4.2
Finland -----	.2	.2	.2	.2
Hungary -----	2/	2/	2/	2/
Japan -----	4.7	4.4	4.4	3.9
Mexico -----	.5	.4	.4	.4
Peoples Rep of China -----	.1	.1	.1	.1
Poland -----	.1	.1	.1	.1
Portugal -----	2/	2/	2/	2/
Romania -----	.1	.1	.1	2/
Republic of South Africa -----	2/	2/	2/	2/
Korea, Republic of -----	1.6	1.5	1.6	1.1
Spain -----	.5	.5	.5	.5
Trinidad and Tobago -----	.1	2/	2/	2/
Venezuela -----	.1	.1	.1	.1
Yugoslavia -----	2/	2/	2/	2/
Total-----	14.0	13.5	13.4	11.8
Other countries:				
Canada -----	4.1	3.4	3.5	3.3
Argentina -----	.4	.5	.6	.3
Turkey -----	.4	.3	.4	.2
Indonesia -----	.3	.3	.3	.1
Sweden -----	.3	.3	.3	.2
Taiwan -----	.3	.3	.3	.2
Thailand -----	.1	.2	.2	.1
Singapore -----	.2	.2	.2	.1
Norway -----	.1	.1	.1	.1
India -----	.1	.1	.1	.1
All others-----	.4	.4	.4	.2
Total-----	6.6	6.0	6.3	4.8
Grand total-----	20.6	19.5	19.7	16.5

1/ Semifinished steel includes ingots, blooms, billets, slabs, and sheet bars.
 2/ Less than 0.05 percent.

10

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

Table 9.--Semifinished steel: 1/ U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Source	Voluntary restraint level 2/	Quantity (short tons)			
		1987	1988	January--September 1988	September 1989
countries:					
Australia	50,000	35	79,402	73,692	64,326
Austria	3/	0	73	34	0
Brazil	700,000	481,287	721,813	543,082	564,153
Czechoslovakia	3/	0	0	0	0
East Germany	3/	1	0	0	0
EC Countries	4/ 820,000	955,673	1,155,121	934,618	720,252
Finland	15,000	13,948	3,239	3,239	16,716
Hungary	3/	569	0	0	0
Japan	100,000	93,288	79,206	58,455	71,193
Spain	100,000	61,884	63,916	55,739	75,952
Mexico	3/	13	0	0	5
People's Rep of China	3/	1,460	353	353	267
Ireland	3/	0	0	0	0
Portugal	3/	0	0	0	0
Romania	3/	0	0	0	0
Republic of South Africa	5/ 100,000	22,578	0	0	7
Yugoslavia	50,000	27,043	57,445	27,094	43,232
Other countries:	50,000	36,905	36,905	33,824	11,921
Canada	50,000	0	3,058	3,058	0
Denmark	3,500	39,822	49,663	30,709	0
Trinidad and Tobago	60,000	0	0	0	0
Venezuela	3/	0	0	0	0
Yugoslavia	3/	0	0	0	0
Total		1,734,506	2,250,240	1,763,897	1,568,024
Other countries:					
Australia	6/	342,056	306,050	280,427	67,761
Canada	2/	135,645	103,838	89,941	94,796
Denmark	6/	44,440	64,585	48,070	5,877
EC Countries	6/	0	47,078	47,078	5,860
Finland	6/	28,212	46,214	46,214	0
Hungary	6/	3,131	22,820	22,820	62
Indonesia	6/	906	4,154	4,149	0
Japan	6/	99	0	0	19
Netherlands	6/	0	0	0	0
Switzerland	6/	0	0	0	0
Taiwan	6/	0	0	0	0
Total	6/	554,489	594,739	538,699	174,375
Grand total		2,288,995	2,844,979	2,302,596	1,742,399

Semifinished steel includes ingots, blooms, billets, slabs, and sheet bars. Restraint level applicable to year ending December 31, 1988. No explicit semifinished steel provisions. Includes 200,000 tons which may be imported at the discretion of the U.S. Trade Representative. Steel imports from South Africa in 1988 are reduced by the Comprehensive Anti-Apartheid Act of 1986, which embargoes certain steel products.

Not applicable. Source: Compiled from official statistics of the U.S. Department of Commerce.

Table 10.--Carbon and certain alloy 1/ semifinished steel: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	35	79,402	73,692	64,326
Austria -----	0	0	0	0
Brazil -----	467,926	720,130	541,399	564,153
Czechoslovakia -----	0	0	0	0
East Germany -----	2/	0	0	0
EC countries-----	949,332	1,151,180	931,911	718,840
Finland -----	13,948	3,239	3,239	16,716
Hungary -----	569	0	0	0
Japan -----	89,683	77,271	56,716	70,495
Mexico -----	61,884	63,916	55,739	75,850
Peoples Rep of China -----	13	0	0	5
Poland -----	1,460	279	279	0
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	22,578	0	0	7
Korea, Republic of -----	27,043	57,445	27,094	43,232
Spain -----	36,537	30,268	30,268	1,600
Trinidad and Tobago -----	0	3,058	3,058	0
Venezuela -----	39,822	49,663	30,709	0
Yugoslavia -----	0	0	0	0
Total-----	1,710,830	2,235,851	1,754,104	1,555,224
Other countries:				
Sweden -----	334,207	291,559	268,019	60,821
Canada -----	110,445	70,310	64,110	65,092
Norway -----	44,440	64,585	48,070	5,877
Soviet Union -----	0	47,078	47,078	5,860
New Zealand -----	28,212	46,214	46,214	0
Argentina -----	3,131	22,820	22,820	62
Indonesia -----	906	4,154	4,149	0
Switzerland -----	99	2/	2/	19
Total-----	521,440	546,720	500,460	137,731
Grand total-----	2,232,270	2,782,571	2,254,564	1,692,955

See footnote(s) at end of table.

Table 10.--Carbon and certain alloy ^{1/} semifinished steel: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	6	15,165	13,910	13,283
Austria -----	0	0	0	0
Brazil -----	87,231	161,215	119,025	140,497
Czechoslovakia -----	0	0	0	0
East Germany -----	7	0	0	0
EC countries-----	208,398	284,362	223,831	188,934
Finland -----	2,945	770	770	4,508
Hungary -----	128	0	0	0
Japan -----	20,477	19,499	14,125	20,234
Mexico -----	11,428	17,342	13,616	19,209
Peoples Rep of China -----	30	0	0	7
Poland -----	342	69	69	0
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	3,548	0	0	18
Korea, Republic of -----	4,809	14,573	6,848	10,557
Spain -----	6,503	6,521	6,521	602
Trinidad and Tobago -----	0	617	617	0
Venezuela -----	6,708	11,049	6,205	0
Yugoslavia -----	0	0	0	0
Total-----	352,560	531,182	405,537	397,849
Other countries:				
Sweden -----	76,098	73,544	67,544	15,249
Canada -----	26,940	21,337	18,760	22,242
Norway -----	8,098	14,757	10,637	1,288
Soviet Union -----	0	6,946	6,946	843
New Zealand -----	6,332	13,489	13,489	0
Argentina -----	1,109	6,147	6,147	21
Indonesia -----	242	1,196	1,195	0
Switzerland -----	140	3	3	67
Total-----	118,959	137,419	124,721	39,710
Grand total-----	471,519	668,601	530,258	437,559

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

^{2/} Less than 0.5 short ton.

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

Table 11.--Carbon and certain alloy 1/ steel plate: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	5,014	5,935	4,508	2,857
Austria -----	9,701	21,426	12,124	3,570
Brazil -----	112,608	171,537	133,616	105,526
Czechoslovakia -----	10,416	16,455	12,640	4,648
East Germany -----	16,091	17,270	12,710	7,410
EC countries-----	381,994	467,491	334,107	310,807
Finland -----	69,486	96,135	63,340	70,979
Hungary -----	13,933	16,146	11,367	12,249
Japan -----	35,903	44,538	29,205	34,366
Mexico -----	12,930	20,867	15,244	18,583
Peoples Rep of China -----	0	26	26	0
Poland -----	30,633	30,860	27,488	16,144
Portugal -----	0	0	0	0
Romania -----	49,274	68,325	65,003	24,226
Republic of South Africa -----	465	0	0	0
Korea, Republic of -----	64,323	68,405	50,979	33,860
Spain -----	63,973	48,484	38,683	41,625
Trinidad and Tobago -----	0	389	389	0
Venezuela -----	6,872	6,653	6,613	4,490
Yugoslavia -----	0	1,423	1,423	0
Total-----	883,616	1,102,365	819,465	691,340
Other countries:				
Canada -----	449,135	419,556	341,448	211,991
Sweden -----	106,253	110,743	87,937	56,720
Indonesia -----	46,701	84,969	60,148	203
Argentina -----	17,499	44,564	41,477	233
India -----	35,711	34,780	34,780	37,094
Egypt -----	0	21,147	21,147	0
Pakistan -----	6,227	15,610	15,610	0
Algeria -----	0	8,054	8,054	0
Turkey -----	6,145	5,946	5,946	193
New Zealand -----	0	3,849	1,144	5,270
All others-----	4,290	5,507	5,349	2/
Total-----	671,961	754,725	623,040	311,704
Grand total-----	1,555,577	1,857,090	1,442,505	1,003,044

See footnote(s) at end of table.

Table 11.--Carbon and certain alloy ^{1/} steel plate: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	2,285	3,190	2,473	1,470
Austria -----	3,379	8,467	4,908	1,684
Brazil -----	36,299	67,413	50,219	33,871
Czechoslovakia -----	2,292	5,280	3,966	1,326
East Germany -----	3,761	5,566	3,925	2,393
EC countries-----	126,682	197,106	139,963	131,634
Finland -----	18,573	38,528	25,839	25,857
Hungary -----	3,104	4,494	2,968	3,890
Japan -----	19,324	27,120	17,959	20,239
Mexico -----	3,340	8,122	5,830	7,960
Peoples Rep of China -----	0	28	28	0
Poland -----	7,316	9,971	8,735	5,506
Portugal -----	0	0	0	0
Romania -----	13,447	22,680	21,690	8,249
Republic of South Africa -----	145	0	0	0
Korea, Republic of -----	21,560	28,496	20,823	12,994
Spain -----	20,059	22,593	17,494	15,832
Trinidad and Tobago -----	0	122	122	0
Venezuela -----	1,762	2,062	2,045	1,511
Yugoslavia -----	0	461	461	0
Total-----	283,328	451,699	329,448	274,416
Other countries:				
Canada -----	155,991	175,573	141,865	88,011
Sweden -----	40,807	52,247	40,982	28,915
Indonesia -----	12,461	25,597	17,585	57
Argentina -----	4,317	14,038	13,159	81
India -----	13,055	14,024	14,024	11,522
Egypt -----	0	6,652	6,652	0
Pakistan -----	2,559	4,117	4,117	0
Algeria -----	0	2,330	2,330	0
Turkey -----	1,554	2,186	2,186	88
New Zealand -----	0	1,350	390	1,591
All others-----	1,708	1,855	1,800	6
Total-----	232,452	299,969	245,090	130,271
Grand total-----	515,780	751,668	574,538	404,687

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

^{2/} Less than 0.5 short ton.

15

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

Table 12.--Carbon and certain alloy 1/ steel sheet and strip: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	123,054	169,338	115,235	144,484
Austria -----	82,055	80,141	53,858	28,488
Brazil -----	343,715	279,788	182,329	285,569
Czechoslovakia -----	2,410	0	0	10
East Germany -----	61,012	50,830	34,094	23,243
EC countries-----	2,172,597	2,143,264	1,529,063	1,297,384
Finland -----	71,070	85,164	60,355	41,786
Hungary -----	9,600	13,211	9,557	8,184
Japan -----	2,381,393	2,209,538	1,607,161	1,551,318
Mexico -----	127,973	139,529	113,631	80,853
Peoples Rep of China -----	584	0	0	18
Poland -----	13,390	11,005	10,568	0
Portugal -----	29,872	16,837	16,837	3,002
Romania -----	3,665	6,731	6,731	52
Republic of South Africa -----	372	0	0	0
Korea, Republic of -----	603,796	487,380	394,784	230,151
Spain -----	100,179	88,988	72,217	63,014
Trinidad and Tobago -----	0	63	63	0
Venezuela -----	56,293	57,246	53,985	31,768
Yugoslavia -----	0	0	0	32
Total-----	6,183,030	5,839,053	4,260,468	3,789,356
Other countries:				
Canada -----	1,119,490	856,040	681,766	617,783
Argentina -----	175,619	243,388	228,230	17,471
Taiwan -----	60,024	78,901	61,225	36,557
Sweden -----	61,509	51,007	43,165	15,375
New Zealand -----	10,795	29,118	18,674	52,522
Algeria -----	11,632	21,102	21,102	0
Indonesia -----	24,966	20,138	13,019	160
Turkey -----	67,134	17,019	17,019	20
Norway -----	15,629	14,466	9,283	13,385
Pakistan -----	10,113	8,324	8,324	0
All others-----	6,653	6,824	6,406	2,291
Total-----	1,563,564	1,346,327	1,108,213	755,564
Grand total-----	7,746,594	7,185,380	5,368,681	4,544,920

See footnote(s) at end of table.

Table 12.--Carbon and certain alloy ¹/ _{steel sheet and strip: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued}

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	59,001	90,392	62,216	77,938
Austria -----	26,289	31,089	20,907	12,007
Brazil -----	119,782	111,040	71,018	114,072
Czechoslovakia -----	644	0	0	3
East Germany -----	17,087	18,100	11,946	8,525
EC countries -----	877,390	995,304	704,187	640,066
Finland -----	25,253	32,525	23,182	17,254
Hungary -----	2,371	3,751	2,602	2,574
Japan -----	1,208,940	1,211,321	883,288	901,442
Mexico -----	60,338	77,632	62,425	47,449
Peoples Rep of China -----	114	0	0	7
Poland -----	5,198	5,049	4,833	0
Portugal -----	14,108	8,172	8,172	1,600
Romania -----	1,246	2,176	2,176	36
Republic of South Africa -----	124	0	0	0
Korea, Republic of -----	234,228	209,663	167,449	96,659
Spain -----	40,855	41,812	33,721	28,787
Trinidad and Tobago -----	0	19	19	0
Venezuela -----	18,728	22,121	20,671	14,416
Yugoslavia -----	0	0	0	17
Total-----	2,711,696	2,860,166	2,078,812	1,962,852
Other countries:				
Canada -----	463,992	381,804	300,957	294,069
Argentina -----	64,208	92,033	86,455	9,530
Taiwan -----	22,313	31,494	24,285	16,570
Sweden -----	37,494	39,376	31,300	21,176
New Zealand -----	5,600	11,315	7,314	22,808
Algeria -----	4,076	8,668	8,668	0
Indonesia -----	6,638	7,569	4,078	76
Turkey -----	27,144	6,256	6,256	9
Norway -----	7,955	7,909	4,941	8,229
Pakistan -----	2,221	3,600	3,600	0
All others-----	2,985	3,066	2,845	1,205
Total-----	644,626	593,090	480,699	373,672
Grand total-----	3,356,322	3,453,256	2,559,511	2,336,524

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

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

Table 13.--Carbon and certain alloy 1/ steel bars and light shapes: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	117	826	77	384
Austria -----	394	693	644	422
Brazil -----	50,090	96,561	78,596	37,907
Czechoslovakia -----	0	0	0	0
East Germany -----	2	0	0	0
EC countries-----	209,024	222,242	153,374	116,490
Finland -----	2,752	4,081	2,910	3,338
Hungary -----	43	146	22	0
Japan -----	154,408	107,959	84,115	62,424
Mexico -----	31,521	22,813	16,545	13,468
Peoples Rep of China -----	4,820	3,441	2,935	2,329
Poland -----	1,037	1,282	819	2,079
Portugal -----	0	2/	2/	0
Romania -----	122	29	29	0
Republic of South Africa -----	221	0	0	0
Korea, Republic of -----	56,173	74,249	56,119	50,427
Spain -----	30,581	38,094	32,049	22,417
Trinidad and Tobago -----	18,047	15,404	11,508	13,908
Venezuela -----	13,530	19,962	12,305	7,104
Yugoslavia -----	287	0	0	0
Total-----	573,169	607,782	452,047	332,697
Other countries:				
Canada -----	379,637	429,634	330,004	303,175
Turkey -----	94,882	102,560	92,834	109,153
Indonesia -----	44,957	54,015	34,145	3,133
Argentina -----	18,954	50,982	36,260	42,964
Norway -----	28,347	36,346	24,522	23,640
Taiwan -----	44,665	32,265	27,065	7,131
Singapore -----	39,869	19,311	6,897	18,116
India -----	10,014	11,249	9,132	7,095
Sweden -----	7,255	9,099	7,233	1,801
Israel -----	619	5,943	3,820	42
All others-----	38,800	1,924	1,636	5,129
Total-----	707,999	753,328	573,548	521,379
Grand total-----	1,281,168	1,361,110	1,025,595	854,076

See footnote(s) at end of table.

Table 13.--Carbon and certain alloy $\frac{1}{2}$ steel bars and light shapes: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	92	332	53	299
Austria -----	590	667	579	777
Brazil -----	15,461	29,058	23,492	16,496
Czechoslovakia -----	0	0	0	0
East Germany -----	1	0	0	0
EC countries-----	154,145	116,081	78,756	68,601
Finland -----	1,685	2,705	1,858	2,468
Hungary -----	14	63	9	0
Japan -----	62,568	49,339	37,385	32,233
Mexico -----	8,595	8,588	6,275	4,901
Peoples Rep of China -----	1,683	1,314	1,124	847
Poland -----	548	845	572	1,178
Portugal -----	0	2	2	0
Romania -----	600	103	103	0
Republic of South Africa -----	71	0	0	0
Korea, Republic of -----	15,094	20,439	15,413	15,004
Spain -----	11,163	17,305	13,806	11,474
Trinidad and Tobago -----	5,496	3,968	2,973	4,457
Venezuela -----	3,187	5,392	3,298	2,884
Yugoslavia -----	73	0	0	0
Total-----	281,066	256,201	185,698	161,619
Other countries:				
Canada -----	146,520	186,448	142,221	130,752
Turkey -----	24,960	28,951	23,834	32,827
Indonesia -----	9,076	14,691	9,209	862
Argentina -----	4,865	16,442	11,231	16,486
Norway -----	5,906	8,963	5,821	6,578
Taiwan -----	11,531	10,022	8,221	2,578
Singapore -----	10,128	5,104	1,751	5,949
India -----	3,490	3,952	3,123	3,141
Sweden -----	4,732	5,737	4,280	1,632
Israel -----	191	1,616	1,074	18
All others-----	9,814	1,111	935	1,740
Total-----	231,213	283,037	211,700	202,563
Grand total-----	512,279	539,238	397,398	364,182

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 14.--Carbon and certain alloy 1/₂ steel wire rod: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	9,664	9,551	7,726	10,783
Austria -----	401	601	283	1,118
Brazil -----	50,183	58,383	46,182	35,468
Czechoslovakia -----	10,307	13,661	12,894	0
East Germany -----	12,806	16,306	3,832	10,369
EC countries -----	235,247	248,578	174,553	125,837
Finland -----	2,237	2,237	2,237	108
Hungary -----	2,862	0	0	0
Japan -----	245,672	276,003	197,976	185,830
Mexico -----	62,826	58,389	43,811	32,288
Peoples Rep of China -----	0	27	27	25
Poland -----	0	7,606	7,606	0
Portugal -----	0	4,451	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	432	875	772	461
Spain -----	40,302	37,258	26,903	39,727
Trinidad and Tobago -----	43,094	11,312	9,563	18,724
Venezuela -----	4,471	8,916	8,364	1,041
Yugoslavia -----	0	0	0	0
Total-----	720,504	754,154	552,729	461,779
Other countries:				
Canada -----	390,071	360,096	279,409	324,064
Turkey -----	61,072	126,791	114,505	39,698
Indonesia -----	97,932	84,414	69,182	24,510
Singapore -----	60,425	81,904	63,442	25,342
Sweden -----	10,079	18,464	15,322	2,601
Saudi Arabia -----	42,619	17,972	17,972	0
Taiwan -----	15,798	16,843	13,782	14,111
Egypt -----	0	11,114	11,114	23
Malaysia -----	47,789	2,355	2,355	0
Israel -----	131	372	41	0
All others-----	2,300	144	2/	22
Total-----	728,216	720,469	587,124	430,371
Grand total-----	1,448,720	1,474,623	1,139,853	892,150

See footnote(s) at end of table.

Table 14.--Carbon and certain alloy 1/ steel wire rod: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	1,983	2,103	1,648	2,439
Austria -----	179	248	159	313
Brazil -----	12,145	16,380	12,825	10,018
Czechoslovakia -----	2,164	3,234	3,034	0
East Germany -----	2,585	3,547	2,970	2,483
EC countries-----	84,580	97,970	67,608	48,533
Finland -----	692	741	741	35
Hungary -----	557	0	0	0
Japan -----	103,044	124,039	87,433	87,029
Mexico -----	14,093	15,344	10,921	8,204
Peoples Rep of China -----	0	9	9	7
Poland -----	0	1,612	1,612	0
Portugal -----	0	1,123	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	179	389	337	281
Spain -----	11,411	10,435	7,336	11,656
Trinidad and Tobago -----	9,538	3,293	2,660	5,686
Venezuela -----	1,014	2,000	1,985	289
Yugoslavia -----	0	0	0	0
Total-----	244,164	282,467	201,278	176,973
Other countries:				
Canada -----	127,412	130,836	100,831	117,832
Turkey -----	13,673	32,337	29,142	11,195
Indonesia -----	21,082	20,363	16,185	6,724
Singapore -----	14,388	21,983	16,703	8,075
Sweden -----	6,215	9,831	7,384	2,128
Saudi Arabia -----	8,616	3,719	3,719	0
Taiwan -----	6,199	6,764	5,536	6,113
Egypt -----	0	2,650	2,650	7
Malaysia -----	11,059	622	622	0
Israel -----	30	106	10	0
All others-----	478	131	3	11
Total-----	209,152	229,342	182,785	152,085
Grand total-----	453,316	511,809	384,063	329,058

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

2/ Less than 0.5 short ton.

21

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

Table 15.--Carbon and certain alloy $\frac{1}{2}$ steel wire: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia	4,963	4,488	3,059	3,305
Austria	2,484	1,731	1,270	1,359
Brazil	10,577	14,128	12,412	7,834
Czechoslovakia	0	0	0	24
East Germany	89	0	0	0
EC countries	174,468	168,458	130,606	107,793
Finland	400	476	337	160
Hungary	57	0	0	0
Japan	96,684	78,468	59,304	52,201
Mexico	3,991	2,712	1,756	99
Peoples Rep of China	7,302	9,720	6,889	7,909
Poland	2	116	38	112
Portugal	0	0	0	0
Romania	0	0	0	0
Republic of South Africa	187	0	0	0
Korea, Republic of	8,226	7,736	4,756	5,406
Spain	40	22	22	75
Trinidad and Tobago	1,435	1,060	1,060	0
Venezuela	7,717	5,996	5,611	2,819
Yugoslavia	42	3	3	0
Total	318,664	295,114	227,123	189,991
Other countries:				
Canada	194,819	193,243	148,882	141,954
Sweden	7,745	7,532	5,199	5,231
Taiwan	3,217	4,897	4,111	2,716
India	2,572	4,108	3,015	3,695
Saudi Arabia	0	4,000	4,000	0
Switzerland	1,372	2,591	1,775	1,452
Argentina	1,170	2,491	2,299	7,576
Chile	1,379	2,146	1,921	2,684
Ecuador	18	1,430	918	2,036
Norway	2,476	1,312	815	713
All others	3,464	865	650	1,714
Total	218,232	224,615	173,585	169,771
Grand total	536,896	519,729	400,708	359,762

See footnote(s) at end of table.

Table 15.--Carbon and certain alloy 1/ steel wire: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	2,329	2,018	1,378	1,480
Austria -----	3,613	2,584	2,025	2,191
Brazil -----	4,944	6,207	5,367	4,182
Czechoslovakia -----	0	0	0	16
East Germany -----	24	0	0	0
EC countries -----	129,054	141,173	107,126	97,499
Finland -----	170	231	153	75
Hungary -----	17	0	0	0
Japan -----	64,973	61,637	45,494	44,401
Mexico -----	1,681	1,320	850	656
Peoples Rep of China -----	2,868	4,165	2,944	3,530
Poland -----	3	59	19	59
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	85	0	0	0
Korea, Republic of -----	4,882	4,667	2,979	3,548
Spain -----	33	37	37	87
Trinidad and Tobago -----	448	354	354	0
Venezuela -----	3,802	3,096	2,861	1,660
Yugoslavia -----	24	9	9	0
Total -----	218,950	227,557	171,596	159,384
Other countries:				
Canada -----	101,960	109,405	83,964	85,738
Sweden -----	10,304	10,678	7,444	6,897
Taiwan -----	1,964	2,903	2,335	2,534
India -----	883	1,518	1,119	1,371
Saudi Arabia -----	0	810	810	0
Switzerland -----	898	1,525	1,037	941
Argentina -----	499	1,245	1,136	3,360
Chile -----	532	946	842	1,480
Ecuador -----	9	652	424	1,007
Norway -----	1,427	1,177	748	569
All others -----	1,385	483	338	863
Total -----	119,861	131,342	100,197	104,760
Grand total -----	338,811	358,899	271,793	264,144

1/ Certain alloy refers to alloy steel other than stainless or tool steel. 23

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

Table 16.--Carbon and certain alloy 1/ steel wire products: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	291	5	2	23
Austria -----	1,113	956	366	3,270
Brazil -----	10,382	15,018	11,192	9,375
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	34,544	23,220	17,598	55,102
Finland -----	0	1	1	48
Hungary -----	0	0	0	0
Japan -----	50,318	23,536	18,225	51,090
Mexico -----	14,577	13,693	10,526	10,832
Peoples Rep of China -----	36,253	36,866	28,627	28,928
Poland -----	19,213	16,070	12,962	11,111
Portugal -----	683	380	315	425
Romania -----	6,859	143	143	0
Republic of South Africa -----	4,340	1,550	1,550	691
Korea, Republic of -----	186,794	192,127	144,775	130,187
Spain -----	18,997	14,765	10,157	26,090
Trinidad and Tobago -----	0	94	94	0
Venezuela -----	2,683	1,352	1,144	13,542
Yugoslavia -----	7,882	7,314	5,193	4,478
Total-----	394,929	347,090	262,870	345,192
Other countries:				
Canada -----	106,028	98,251	77,710	88,825
Turkey -----	37,393	23,631	19,096	8,433
United Arab Emirates -----	7,787	20,059	14,453	13,630
Indonesia -----	11,116	18,621	12,221	18,558
Argentina -----	12,069	18,002	12,816	14,127
Taiwan -----	37,689	13,715	10,380	12,762
Thailand -----	20,516	8,627	5,525	15,076
Chile -----	10,919	8,459	6,480	5,604
India -----	505	4,571	2,443	6,237
Saudi Arabia -----	305	3,718	3,134	6,708
All others-----	10,123	7,707	5,670	10,936
Total-----	254,450	225,361	170,928	200,896
Grand total-----	649,379	572,451	433,798	546,088

See footnote(s) at end of table.

Table 16.--Carbon and certain alloy ^{1/} steel wire products: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	249	20	17	62
Austria -----	1,973	1,556	784	7,007
Brazil -----	4,592	7,169	2,224	5,930
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	27,128	24,443	18,903	116,882
Finland -----	0	96	95	33
Hungary -----	0	0	0	0
Japan -----	46,874	28,992	22,058	100,522
Mexico -----	7,758	8,903	6,612	10,774
Peoples Rep of China -----	17,786	14,640	11,174	18,022
Poland -----	7,056	5,403	4,383	3,785
Portugal -----	820	530	432	666
Romania -----	2,424	44	44	0
Republic of South Africa -----	2,199	792	792	533
Korea, Republic of -----	128,818	138,561	100,894	114,747
Spain -----	11,866	8,752	5,908	27,250
Trinidad and Tobago -----	0	27	27	0
Venezuela -----	498	387	335	4,212
Yugoslavia -----	2,845	3,027	2,192	1,899
Total-----	262,886	243,342	179,874	412,324
Other countries:				
Canada -----	73,873	70,198	55,816	74,157
Turkey -----	12,966	8,700	6,997	4,770
United Arab Emirates -----	2,582	7,562	5,391	5,519
Indonesia -----	4,341	6,881	4,407	7,849
Argentina -----	5,105	7,943	5,540	7,463
Taiwan -----	24,306	12,448	9,078	14,625
Thailand -----	10,027	5,332	3,562	6,726
Chile -----	4,662	3,991	3,057	2,930
India -----	263	2,659	1,360	4,081
Saudi Arabia -----	103	1,239	1,058	2,416
All others -----	6,976	6,778	4,863	15,102
Total-----	145,204	133,731	101,129	145,638
Grand total-----	408,090	377,073	281,003	557,962

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

25

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

Table 17.--Carbon and certain alloy 1/₂ steel structural shapes and units: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	55	139	135	291
Austria -----	377	1,541	1,439	478
Brazil -----	11,926	20,210	15,738	9,408
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	92
EC countries -----	645,485	732,369	526,600	495,634
Finland -----	341	118	118	2,649
Hungary -----	0	0	0	0
Japan -----	629,977	590,217	504,165	336,109
Mexico -----	17,953	24,912	18,379	13,921
Peoples Rep of China -----	8	208	208	535
Poland -----	18,559	14,059	14,041	8,823
Portugal -----	122	0	0	45
Romania -----	0	19	0	130
Republic of South Africa -----	933	143	143	0
Korea, Republic of -----	135,070	169,302	141,885	70,730
Spain -----	177,434	171,068	138,390	144,348
Trinidad and Tobago -----	0	0	0	65
Venezuela -----	0	2/	0	50
Yugoslavia -----	0	263	135	0
Total-----	1,638,240	1,724,568	1,361,376	1,083,308
Other countries:				
Canada -----	398,180	338,187	266,281	184,082
Norway -----	61,316	64,361	51,404	24,561
Argentina -----	17,757	27,523	24,459	26,974
Taiwan -----	17,179	9,020	7,400	5,298
New Zealand -----	9,076	8,242	5,416	6,361
Indonesia -----	0	4,074	552	3,251
Sweden -----	2,170	3,925	1,610	867
Thailand -----	0	3,278	1,161	0
Singapore -----	6,702	3,129	2,872	645
Switzerland -----	131	626	587	96
All others -----	2,917	1,534	403	1,265
Total-----	515,428	463,899	363,145	253,400
Grand total-----	2,153,668	2,188,467	1,724,521	1,336,708

See footnote(s) at end of table.

Table 17.--Carbon and certain alloy ¹/₂ steel structural shapes and units: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	54	135	116	884
Austria -----	1,455	1,865	1,428	1,303
Brazil -----	4,099	8,055	6,335	4,501
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	28
EC countries -----	222,416	294,725	213,475	197,632
Finland -----	336	248	248	4,036
Hungary -----	0	0	0	0
Japan -----	189,574	228,010	190,563	141,662
Mexico -----	7,074	11,585	8,642	6,890
Peoples Rep of China -----	71	154	154	425
Poland -----	3,990	3,587	3,559	2,573
Portugal -----	78	0	0	268
Romania -----	0	11	0	55
Republic of South Africa -----	573	694	694	0
Korea, Republic of -----	59,530	84,018	72,031	29,074
Spain -----	48,816	62,180	50,344	50,864
Trinidad and Tobago -----	0	0	0	48
Venezuela -----	0	1	0	15
Yugoslavia -----	0	393	183	0
Total -----	538,066	695,661	547,772	440,258
Other countries:				
Canada -----	220,522	201,529	155,420	113,935
Norway -----	15,052	21,943	15,866	7,732
Argentina -----	4,186	7,274	6,618	9,092
Taiwan -----	9,331	5,476	4,248	5,060
New Zealand -----	9,040	8,814	6,697	7,349
Indonesia -----	0	1,173	160	951
Sweden -----	7,243	5,413	4,464	2,397
Thailand -----	0	1,711	611	0
Singapore -----	4,293	2,903	2,694	423
Switzerland -----	818	1,557	1,531	211
All others -----	6,366	1,349	1,172	1,677
Total -----	276,851	259,142	199,481	148,827
Grand total -----	814,917	954,803	747,253	589,085

¹/₂ Certain alloy refers to alloy steel other than stainless or tool steel. 27

²/₂ Less than 0.5 short ton.

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

Table 18.--Carbon and certain alloy $\frac{1}{2}$ steel rails and related products: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	30	2	2	2,985
Austria -----	5	703	239	4,927
Brazil -----	2,440	4,553	3,110	2,386
Czechoslovakia -----	0	0	0	0
East Germany -----	0	1	1	0
EC countries-----	42,340	51,287	42,350	41,155
Finland -----	2/	3	3	0
Hungary -----	0	4	0	0
Japan -----	84,891	79,347	51,101	59,877
Mexico -----	46	26	25	322
Peoples Rep of China -----	45	25	25	427
Poland -----	0	0	0	105
Portugal -----	0	1,071	395	552
Romania -----	0	0	0	0
Republic of South Africa -----	879	2/	2/	0
Korea, Republic of -----	5,803	6,919	5,897	6,374
Spain -----	0	0	0	36
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	344	77	0	0
Yugoslavia -----	0	0	0	0
Total-----	136,823	144,018	103,148	119,146
Other countries:				
Canada -----	101,439	172,077	117,718	114,529
Sweden -----	7,424	3,064	3,046	782
Gabon -----	0	128	0	0
Taiwan -----	168	128	95	340
Argentina -----	6	6	6	1,794
India -----	0	6	6	0
Philippines -----	0	6	6	0
Honduras -----	0	2/	0	9
Norway -----	0	2/	2/	0
Colombia -----	0	0	0	58
All others-----	127	0	0	62
Total-----	109,164	175,415	120,877	117,574
Grand total-----	245,987	319,433	224,025	236,720

See footnote(s) at end of table.

Table 18.--Carbon and certain alloy ^{1/} steel rails and related products: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	15	7	7	3,403
Austria -----	37	299	77	2,869
Brazil -----	2,016	3,751	2,577	2,030
Czechoslovakia -----	0	0	0	0
East Germany -----	0	5	5	0
EC countries -----	17,563	24,466	19,502	21,287
Finland -----	5	14	14	0
Hungary -----	0	25	0	0
Japan -----	34,066	38,835	24,034	32,973
Mexico -----	14	37	30	317
Peoples Rep of China -----	32	9	9	204
Poland -----	0	0	0	49
Portugal -----	0	748	257	461
Romania -----	0	0	0	0
Republic of South Africa -----	563	1	1	0
Korea, Republic of -----	1,863	2,580	2,124	3,192
Spain -----	0	0	0	157
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	70	24	0	0
Yugoslavia -----	0	0	0	0
Total-----	56,244	70,801	8,637	66,942
Other countries:				
Canada -----	20,479	50,140	34,999	48,734
Sweden -----	2,553	1,001	905	500
Gabon -----	0	67	0	0
Taiwan -----	302	294	198	579
Argentina -----	24	17	17	559
India -----	0	16	16	0
Philippines -----	0	28	28	0
Honduras -----	0	2	0	4
Norway -----	0	3	3	0
Colombia -----	0	0	0	192
All others-----	284	0	0	104
Total-----	23,642	51,568	36,166	50,672
Grand total-----	79,886	122,369	84,803	117,614

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

^{2/} Less than 0.5 short ton.

29

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

Table 19.--Carbon and certain alloy 1/ steel pipe and tube: U.S. imports for U.S. imports for consumption, by specified sources 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	11,869	12,375	11,028	4,767
Austria -----	19,766	26,408	21,551	6,351
Brazil -----	75,669	87,724	63,878	48,363
Czechoslovakia -----	6,660	7,164	6,023	1,267
East Germany -----	5,909	7,828	6,500	3,309
EC countries-----	383,341	458,471	371,849	330,897
Finland -----	5,968	12,755	7,787	5,359
Hungary -----	0	585	585	1,072
Japan -----	542,452	790,770	625,767	325,176
Mexico -----	137,761	131,349	98,104	93,197
Peoples Rep of China -----	2,056	18,422	7,801	48
Poland -----	7,267	8,048	6,945	3,350
Portugal -----	410	0	0	0
Romania -----	22,488	27,284	23,475	8,288
Republic of South Africa -----	40	0	0	0
Korea, Republic of -----	331,525	496,059	357,661	224,816
Spain -----	32,753	29,637	21,072	36,806
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	38,840	19,510	16,387	11,511
Yugoslavia -----	7,183	3,732	3,732	1,085
Total-----	1,631,957	2,138,121	1,650,145	1,105,662
Other countries:				
Canada -----	514,456	436,372	345,994	331,390
Thailand -----	93,717	148,259	126,422	33,106
Argentina -----	100,108	148,192	122,593	66,980
Taiwan -----	79,176	88,055	68,940	36,067
Singapore -----	37,408	47,545	37,881	20,488
India -----	10,848	44,486	37,326	20,192
Turkey -----	140,786	32,001	26,218	14,142
Sweden -----	30,146	26,842	20,607	11,930
Malaysia -----	13,285	22,879	20,494	2,172
Chile -----	2,077	22,048	14,687	2,212
All others-----	94,680	95,139	65,628	32,983
Total-----	1,116,687	1,111,818	886,790	571,662
Grand total-----	2,748,644	3,249,939	2,536,935	1,677,324

See footnote(s) at end of table.

Table 19.--Carbon and certain alloy 1/ steel pipe and tube: U.S. imports for U.S. imports for consumption, by specified sources 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	4,265	4,959	4,405	2,202
Austria -----	11,963	23,494	18,581	5,588
Brazil -----	32,186	41,170	29,896	27,644
Czechoslovakia -----	2,057	3,472	2,825	710
East Germany -----	1,862	4,115	2,376	1,391
EC countries-----	197,587	322,171	253,228	218,468
Finland -----	1,915	5,624	3,287	2,589
Hungary -----	0	266	266	458
Japan -----	295,849	597,887	464,388	252,261
Mexico -----	57,935	71,872	53,805	50,957
Peoples Rep of China -----	895	7,066	2,690	32
Poland -----	2,219	3,115	2,552	1,433
Portugal -----	157	0	0	0
Romania -----	7,377	11,018	9,311	3,350
Republic of South Africa -----	15	0	0	0
Korea, Republic of -----	137,101	239,742	169,080	113,143
Spain -----	16,510	23,994	17,233	23,242
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	13,066	7,535	6,137	5,021
Yugoslavia -----	2,462	2,036	2,036	464
Total-----	785,421	1,369,536	1,042,096	708,953
Other countries:				
Canada -----	254,194	266,692	211,737	208,561
Thailand -----	32,613	58,119	49,336	14,246
Argentina -----	38,060	76,641	61,484	40,131
Taiwan -----	28,607	39,591	30,380	18,617
Singapore -----	13,763	19,833	15,302	10,023
India -----	4,059	20,173	16,922	9,186
Turkey -----	43,271	14,568	11,547	5,803
Sweden -----	21,798	23,510	7,981	12,004
Malaysia -----	4,615	9,314	8,261	948
Chile -----	829	9,500	6,265	1,097
All others-----	35,348	41,391	26,985	15,280
Total-----	477,157	579,332	456,200	335,896
Grand total-----	1,262,578	1,948,868	1,498,296	1,044,849

1/ Certain alloy refers to alloy steel other than stainless or tool steel. 31

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

Table 20. Total, carbon and certain 1/ alloy steel products: U.S. imports for consumption, by principal sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	155,092	282,061	215,465	234,206
Austria -----	116,298	134,200	91,775	49,983
Brazil -----	1,135,516	1,468,033	1,088,452	1,105,989
Czechoslovakia -----	29,792	37,280	31,558	5,948
East Germany -----	95,910	92,234	67,137	44,424
EC countries-----	5,228,372	5,666,561	4,212,010	3,599,940
Finland -----	166,202	204,209	140,327	141,144
Hungary -----	27,064	30,094	21,531	21,505
Japan -----	4,311,383	4,277,647	3,233,735	2,728,885
Mexico -----	471,462	478,207	373,760	340,309
Peoples Rep of China -----	51,081	68,735	46,538	40,224
Poland -----	91,561	89,325	80,746	41,724
Portugal -----	31,087	22,739	17,547	4,023
Romania -----	82,408	102,530	95,380	32,695
Republic of South Africa -----	30,015	1,693	1,693	698
Korea, Republic of -----	1,419,183	1,560,497	1,184,721	795,645
Spain -----	500,796	458,584	369,760	375,739
Trinidad and Tobago -----	62,575	31,380	25,735	32,696
Venezuela -----	170,571	169,376	135,119	72,325
Yugoslavia -----	15,394	12,734	10,484	5,596
Total-----	14,191,762	15,188,119	11,443,473	9,673,698
Other countries:				
Canada -----	3,763,701	3,373,766	2,654,322	2,382,885
Argentina -----	346,313	557,969	490,960	178,181
Sweden -----	566,885	522,294	452,157	157,689
Turkey -----	407,413	307,985	275,639	171,661
Indonesia -----	235,573	281,142	202,681	54,588
Taiwan -----	257,931	243,886	193,061	114,982
Norway -----	154,194	181,502	134,463	68,501
Thailand -----	120,179	160,176	133,122	48,204
Singapore -----	144,538	153,163	112,155	64,639
India -----	60,231	99,714	87,115	75,389
All others-----	350,185	441,075	372,035	153,334
Total-----	6,407,143	6,322,672	5,107,710	3,470,053
Grand total-----	20,598,905	21,510,791	16,551,183	13,143,751

See footnote(s) at end of table.

Table 20. Total, carbon and certain 1/ alloy steel products: U.S. imports for consumption, by principal sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	70,279	118,320	86,222	103,459
Austria -----	49,477	70,268	49,448	33,740
Brazil -----	318,756	451,458	325,979	359,241
Czechoslovakia -----	7,156	11,986	9,825	2,054
East Germany -----	25,328	31,334	21,223	14,820
EC countries -----	2,044,943	2,497,803	1,826,579	1,729,537
Finland -----	51,574	81,482	56,187	56,854
Hungary -----	6,191	8,600	5,845	6,923
Japan -----	2,045,689	2,386,680	1,786,726	1,632,995
Mexico -----	172,255	220,745	169,007	157,318
Peoples Rep of China -----	23,479	27,385	18,133	23,081
Poland -----	26,671	29,711	26,335	14,584
Portugal -----	15,163	10,575	8,863	2,996
Romania -----	25,093	36,033	33,325	11,690
Republic of South Africa -----	7,322	1,487	1,487	551
Korea, Republic of -----	608,066	743,129	557,979	399,199
Spain -----	167,216	193,629	152,400	169,950
Trinidad and Tobago -----	15,482	8,400	6,772	10,191
Venezuela -----	48,835	53,667	43,535	30,008
Yugoslavia -----	5,404	5,925	4,881	2,380
Total-----	5,734,379	6,988,617	5,190,751	4,761,571
Other countries:				
Canada -----	1,591,881	1,593,962	1,246,570	1,184,030
Argentina -----	122,372	221,780	191,787	86,723
Sweden -----	207,367	221,486	182,343	95,843
Turkey -----	123,568	93,038	79,969	54,706
Indonesia -----	56,949	81,687	56,389	19,036
Taiwan -----	104,597	109,041	84,329	66,676
Norway -----	39,717	55,371	38,551	24,852
Thailand -----	43,817	65,167	53,514	20,996
Singapore -----	42,953	50,360	36,868	24,536
India -----	22,038	42,731	36,881	30,000
All others -----	123,858	163,352	130,969	76,698
Total-----	2,479,117	2,697,975	2,138,170	1,684,096
Grand total-----	8,213,496	9,686,592	7,328,921	6,445,667

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

33

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

Table 21.--Stainless semifinished steel: U.S. imports for consumption, by specified sources 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	0	73	34	0
Brazil -----	13,361	1,683	1,683	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	6,340	3,941	2,707	1,412
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	3,605	1,935	1,739	698
Mexico -----	0	0	0	102
Peoples Rep of China -----	0	0	0	0
Poland -----	0	74	74	267
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	0	0	0	0
Spain -----	368	6,683	3,556	10,321
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	23,674	14,389	9,793	12,800
Other countries:				
Canada -----	25,200	33,527	25,831	29,704
Sweden -----	7,849	14,491	12,408	6,940
Israel -----	0	0	0	1/
Taiwan -----	0	0	0	1/
Total-----	33,049	48,018	38,239	36,644
Grand total-----	56,723	62,407	48,032	49,444

See footnote(s) at end of table.

Table 21.--Stainless semifinished steel: U.S. imports for consumption, by specified sources 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	0	234	103	0
Brazil -----	3,904	542	542	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	4,418	6,353	4,719	1,555
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	3,581	2,906	2,419	1,410
Mexico -----	0	0	0	260
Peoples Rep of China -----	0	0	0	0
Poland -----	0	102	102	473
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	0	0	0	0
Spain -----	1,566	6,767	4,562	7,257
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	13,469	16,904	12,447	10,955
Other countries:				
Canada -----	25,133	52,871	39,372	57,517
Sweden -----	7,692	23,240	19,042	16,592
Israel -----	0	0	0	5
Hong Kong -----	0	0	0	2
Taiwan -----	0	0	0	16
Total-----	32,825	76,111	58,414	74,132
Grand total-----	46,294	93,015	70,861	85,087

1/ Less than 0.5 short ton.

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

Table 22.--Stainless steel plate: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	96	249	183	104
Brazil -----	36	0	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	5,278	7,364	5,259	8,355
Finland -----	2,369	2,730	2,321	828
Hungary -----	0	0	0	0
Japan -----	1,558	2,225	1,748	1,279
Mexico -----	2	0	0	4
Peoples Rep of China -----	0	0	0	0
Poland -----	0	0	0	0
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	0	125	0	0
Spain -----	0	0	0	55
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	9,339	12,693	9,511	10,625
Other countries:				
Sweden -----	1,744	2,779	1,172	1,398
Canada -----	34	371	294	136
Anguilla -----	0	5	0	0
Total-----	1,778	3,155	1,466	1,534
Grand total-----	11,117	15,848	10,977	12,159

Table 22.--Stainless steel plate: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	366	953	752	481
Brazil -----	56	0	0	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	9,256	15,635	10,803	24,884
Finland -----	3,590	6,147	4,845	2,551
Hungary -----	0	0	0	0
Japan -----	2,339	4,514	3,202	3,767
Mexico -----	2	0	0	3
Peoples Rep of China -----	0	0	0	0
Poland -----	0	0	0	0
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	0	50	0	0
Spain -----	0	0	0	108
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	15,609	27,299	19,602	31,794
Other countries:				
Sweden -----	3,986	6,775	3,234	4,149
Canada -----	33	889	653	346
Anguilla -----	0	9	0	0
Total-----	4,019	7,673	3,887	4,495
Grand total-----	19,628	34,972	23,489	36,289

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

Table 23.--Stainless steel sheet and strip: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	52	29	22	12
Brazil -----	550	313	313	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	41,504	46,605	32,994	39,671
Finland -----	6,296	6,045	4,926	1,127
Hungary -----	0	0	0	0
Japan -----	25,733	22,393	16,227	31,506
Mexico -----	18,819	8,814	7,136	8,801
Peoples Rep of China -----	21	0	0	0
Poland -----	0	0	0	0
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	9,450	7,845	6,214	4,474
Spain -----	13,700	14,153	9,232	8,891
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	5	0	0
Yugoslavia -----	0	0	0	0
Total-----	116,125	106,202	77,064	94,482
Other countries:				
Sweden -----	7,493	8,433	7,029	4,426
Canada -----	4,892	3,838	2,953	2,050
India -----	341	90	90	0
Honduras -----	0	19	19	0
Peru -----	0	2	2	0
Antigua -----	1	0	0	0
Norway -----	37	0	0	0
Turkey -----	0	0	0	1/
Jordan -----	19	0	0	0
Hong Kong -----	41	0	0	0
All others-----	345	0	0	117
Total-----	13,169	12,382	10,093	6,593
Grand total-----	129,294	118,584	87,157	101,075

See footnote(s) at end of table.

Table 23.--Stainless steel sheet and strip: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	202	136	109	61
Brazil -----	675	480	480	0
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries -----	65,434	91,017	60,176	87,708
Finland -----	9,834	13,459	10,128	3,178
Hungary -----	0	0	0	0
Japan -----	43,684	50,112	34,005	67,532
Mexico -----	30,157	16,454	12,367	21,839
Peoples Rep of China -----	29	0	0	0
Poland -----	0	0	0	0
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	14,459	17,343	13,069	11,562
Spain -----	20,342	31,308	19,310	20,424
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	21	0	0
Yugoslavia -----	0	0	0	0
Total-----	184,816	220,330	149,644	212,304
Other countries:				
Sweden -----	17,785	24,684	19,340	15,719
Canada -----	8,019	9,552	7,094	6,460
India -----	492	172	172	0
Honduras -----	0	35	35	0
Peru -----	0	26	26	0
Antigua -----	11	0	0	0
Norway -----	16	0	0	0
Turkey -----	0	0	0	3
Jordan -----	37	0	0	0
Hong Kong -----	59	0	0	0
All others-----	464	0	0	95
Total-----	26,883	34,469	26,667	22,277
Grand total-----	211,699	254,799	176,311	234,581

1/ Less than 0.5 short ton.

39

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

Table 24.--Stainless steel bars and shapes: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987		1988		January--September	
	1987	1988	1988	1989	1988	1989
Quantity (short tons)						
VRA countries:						
Australia -----	0	0	0	0	0	0
Austria -----	94	183	167	57		
Brazil -----	1,450	3,827	2,729	2,948		
Czechoslovakia -----	0	0	0	0		
East Germany -----	0	0	0	0		
EC countries-----	5,899	8,421	6,769	4,728		
Finland -----	0	0	0	0		
Hungary -----	0	0	0	0		
Japan -----	19,259	16,715	12,059	11,138		
Mexico -----	0	49	49	0		
Peoples Rep of China -----	4	2	2	7		
Poland -----	0	0	0	0		
Portugal -----	0	0	0	0		
Romania -----	0	18	18	0		
Republic of South Africa -----	0	0	0	0		
Korea, Republic of -----	2,582	1,604	1,048	1,916		
Spain -----	3,826	4,285	3,265	2,202		
Trinidad and Tobago -----	0	0	0	0		
Venezuela -----	0	0	0	0		
Yugoslavia -----	0	0	0	0		
Total-----	33,114	35,104	26,106	22,996		
Other countries:						
Sweden -----	3,200	3,708	2,893	975		
Canada -----	1,269	1,641	1,071	474		
India -----	126	224	205	64		
Taiwan -----	59	49	36	59		
Hong Kong -----	0	1/	0	0		
Switzerland -----	66	1/	1/	9		
Argentina -----	111	0	0	49		
Bulgaria -----	46	0	0	0		
Jordan -----	0	0	0	10		
Singapore -----	0	0	0	1/		
All others-----	0	0	0	2		
Total-----	4,877	5,622	4,205	1,642		
Grand total-----	37,991	40,726	30,311	24,638		

See footnote(s) at end of table.

Table 24.--Stainless steel bars and shapes: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	257	412	379	157
Brazil -----	2,503	5,743	4,637	6,944
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	11,437	19,765	14,805	14,340
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	36,707	40,671	26,386	34,398
Mexico -----	0	163	163	0
Peoples Rep of China -----	75	40	40	32
Poland -----	0	0	0	0
Portugal -----	0	0	0	0
Romania -----	0	30	30	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	4,294	3,389	1,958	5,520
Spain -----	6,889	10,122	7,299	6,488
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	62,162	80,335	55,697	67,879
Other countries:				
Sweden -----	6,180	8,981	6,483	3,396
Canada -----	2,136	3,608	2,379	1,542
India -----	199	420	384	145
Taiwan -----	108	162	113	166
Hong Kong -----	0	3	0	0
Switzerland -----	129	1	1	50
Argentina -----	201	0	0	87
Bulgaria -----	70	0	0	0
Jordan -----	0	0	0	41
Singapore -----	0	0	0	2
All others-----	0	0	0	53
Total-----	9,023	13,175	9,360	5,482
Grand total-----	71,185	93,510	65,057	73,361

1/ Less than 0.5 short ton.

41

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

Table 25.--Stainless steel wire rod: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	0	49	0	88
Brazil -----	874	964	964	788
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	5,482	6,898	4,451	6,615
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	5,544	5,483	4,062	4,682
Mexico -----	0	0	0	0
Peoples Rep of China -----	0	0	0	0
Poland -----	0	0	0	0
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	868	375	367	176
Spain -----	1,542	1,979	1,465	1,212
Trinidad and Tobago -----	0	138	138	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	17	17	0
Total-----	14,310	15,903	11,464	13,561
Other countries:				
Sweden -----	3,955	3,159	2,356	2,550
Taiwan -----	47	148	148	0
Canada -----	0	1/	1/	177
Total-----	4,002	3,307	2,504	2,727
Grand total-----	18,312	19,210	13,968	16,288

See footnote(s) at end of table.

Table 25.--Stainless steel wire rod: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	0	0	0	0
Austria -----	0	68	0	129
Brazil -----	1,224	1,543	1,543	1,710
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	11,089	17,917	11,075	19,777
Finland -----	0	0	0	0
Hungary -----	0	0	0	0
Japan -----	8,927	11,611	7,696	12,705
Mexico -----	0	0	0	0
Peoples Rep of China -----	0	0	0	0
Poland -----	0	0	0	0
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	1,150	552	539	391
Spain -----	2,539	5,122	3,669	3,637
Trinidad and Tobago -----	0	202	202	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	22	22	0
Total-----	24,929	37,037	24,746	38,349
Other countries:				
Sweden -----	6,995	7,916	5,170	8,328
Taiwan -----	72	328	328	0
Canada -----	0	2	2	496
Total-----	7,067	8,246	5,500	8,824
Grand total-----	31,996	45,283	30,246	47,173

1/ Less than 0.5 short ton.

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

Table 26.--Stainless steel wire: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	1/	1/	1/	1/
Austria -----	37	25	10	77
Brazil -----	188	156	156	445
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	6,763	7,713	5,042	5,501
Finland -----	0	0	0	7
Hungary -----	0	0	0	0
Japan -----	4,254	4,719	3,111	3,675
Mexico -----	0	1	1	6
Peoples Rep of China -----	0	0	0	0
Poland -----	71	0	0	0
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	884	986	649	455
Spain -----	621	388	231	372
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	3	0	0
Yugoslavia -----	0	0	0	3
Total-----	12,818	13,991	9,200	10,541
Other countries:				
Sweden -----	2,555	2,685	1,884	1,942
Canada -----	2,043	2,277	1,802	1,751
Taiwan -----	1,462	1,221	820	913
Switzerland -----	47	268	208	319
India -----	77	209	100	769
Singapore -----	0	1/	0	0
Israel -----	65	0	0	0
Hong Kong -----	0	0	0	1/
New Zealand -----	15	0	0	0
Total-----	6,264	6,660	4,814	5,694
Grand total-----	19,082	20,651	14,014	16,235

See footnote(s) at end of table.

Table 26.--Stainless steel wire: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	64	39	33	58
Austria -----	172	117	48	377
Brazil -----	282	304	304	1,097
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	17,601	23,826	15,020	20,928
Finland -----	0	0	0	58
Hungary -----	0	0	0	0
Japan -----	13,957	18,705	12,085	15,819
Mexico -----	0	6	6	3
Peoples Rep of China -----	0	0	0	0
Poland -----	16	0	0	0
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	2,240	3,044	1,826	1,843
Spain -----	1,280	1,096	570	1,203
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	11	0	0
Yugoslavia -----	0	0	0	4
Total-----	35,612	47,148	29,892	41,390
Other countries:				
Sweden -----	10,548	12,922	8,592	10,950
Canada -----	6,960	9,650	7,232	9,495
Taiwan -----	3,797	3,824	2,370	3,183
Switzerland -----	170	1,254	936	1,505
India -----	159	414	194	2,057
Singapore -----	0	5	0	0
Israel -----	85	0	0	0
Hong Kong -----	0	0	0	4
New Zealand -----	49	0	0	0
Total-----	21,768	28,069	19,324	27,194
Grand total-----	57,380	75,217	49,216	68,584

1/ Less than 0.5 short ton.

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

Table 27.--Stainless steel pipe and tube: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	0	23	23	0
Austria -----	395	756	577	506
Brazil -----	0	0	0	12
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	4,430	6,694	5,189	9,705
Finland -----	0	1/	1/	0
Hungary -----	0	0	0	0
Japan -----	7,208	8,365	6,525	6,994
Mexico -----	781	950	686	325
Peoples Rep of China -----	0	0	0	4
Poland -----	0	0	0	0
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	1/
Korea, Republic of -----	517	392	317	413
Spain -----	88	388	190	951
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	13,419	17,568	13,507	18,910
Other countries:				
Canada -----	5,432	6,925	5,725	4,972
Taiwan -----	3,571	6,809	5,109	2,093
Sweden -----	4,016	5,253	4,001	3,286
Thailand -----	0	188	89	252
India -----	0	4	2	5
Israel -----	1/	4	4	1/
Switzerland -----	2	1	1/	7
New Zealand -----	0	1/	1/	0
Norway -----	1/	0	0	1/
Malaysia -----	1/	0	0	13
All others-----	6	0	0	79
Total-----	13,027	19,184	14,930	10,707
Grand total-----	26,446	36,752	28,437	29,617

See footnote(s) at end of table.

Table 27.--Stainless steel pipe and tube: U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	0	135	135	0
Austria -----	1,637	4,157	2,984	4,020
Brazil -----	0	0	0	54
Czechoslovakia -----	0	0	0	0
East Germany -----	0	0	0	0
EC countries-----	14,405	25,735	19,089	33,326
Finland -----	0	1	1	0
Hungary -----	0	0	0	0
Japan -----	22,587	31,923	23,277	38,992
Mexico -----	1,654	2,891	1,978	1,110
Peoples Rep of China -----	0	0	0	12
Poland -----	0	0	0	0
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	4
Korea, Republic of -----	1,412	1,255	1,004	1,482
Spain -----	282	1,726	718	4,954
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	41,977	67,823	49,186	83,954
Other countries:				
Canada -----	17,196	24,048	18,620	23,895
Taiwan -----	9,190	21,308	14,477	8,547
Sweden -----	12,414	22,285	16,022	17,919
Thailand -----	0	458	206	624
India -----	0	17	8	20
Israel -----	49	77	69	2
Switzerland -----	168	177	136	130
New Zealand -----	0	2	2	0
Norway -----	2	0	0	5
Malaysia -----	2	0	0	45
All others-----	21	0	0	270
Total-----	39,042	68,372	49,540	51,457
Grand total-----	81,019	136,195	98,726	135,411

1/ Less than 0.5 short ton.

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

Table 28.--Alloy tool steel (all forms): U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	19	0	0	18
Austria -----	2,693	2,538	1,773	2,137
Brazil -----	997	1,920	1,570	1,992
Czechoslovakia -----	0	21	21	0
East Germany -----	0	4	0	0
EC countries -----	10,302	12,795	10,165	23,106
Finland -----	22	5	5	0
Hungary -----	0	0	0	67
Japan -----	6,077	4,416	3,283	15,084
Mexico -----	139	346	346	88
Peoples Rep of China -----	1/	103	49	158
Poland -----	304	249	150	213
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	1,388	779	665	966
Spain -----	47	30	30	104
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	21,988	23,206	18,057	43,933
Other countries:				
Sweden -----	11,669	12,254	9,520	18,615
Canada -----	6,868	8,573	6,912	7,095
Argentina -----	70	42	42	146
India -----	0	19	0	1/
Switzerland -----	1/	1/	0	1/
Soviet Union -----	0	0	0	10
United Arab Emirates -----	0	0	0	179
Malaysia -----	2	0	0	0
Taiwan -----	1/	0	0	0
Total-----	18,609	20,888	16,474	26,045
Grand total-----	40,597	44,094	34,531	69,978

See footnote(s) at end of table.

Table 28.--Alloy tool steel (all forms): U.S. imports for consumption, by specified sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	31	0	0	41
Austria -----	5,895	6,561	4,566	5,827
Brazil -----	1,349	3,560	2,911	3,028
Czechoslovakia -----	0	33	33	0
East Germany -----	0	6	0	0
EC countries -----	18,504	23,173	17,914	32,908
Finland -----	37	15	15	0
Hungary -----	0	0	0	30
Japan -----	12,370	14,883	11,337	19,881
Mexico -----	142	434	434	122
Peoples Rep of China -----	4	149	85	205
Poland -----	454	468	256	521
Portugal -----	0	0	0	0
Romania -----	0	0	0	0
Republic of South Africa -----	0	0	0	0
Korea, Republic of -----	2,097	1,303	1,103	1,565
Spain -----	54	40	40	159
Trinidad and Tobago -----	0	0	0	0
Venezuela -----	0	0	0	0
Yugoslavia -----	0	0	0	0
Total-----	40,937	50,625	38,694	64,287
Other countries:				
Sweden -----	28,049	30,589	23,242	30,888
Canada -----	9,342	12,019	9,603	9,435
Argentina -----	122	65	65	164
India -----	0	16	0	4
Switzerland -----	2	2	0	1
Soviet Union -----	0	0	0	8
United Arab Emirates -----	0	0	0	149
Malaysia -----	1	0	0	0
Taiwan -----	1	0	0	0
Total-----	37,517	42,691	32,910	40,649
Grand total-----	78,454	93,316	71,604	104,936

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, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987	1988	January--September	
			1988	1989
Quantity (short tons)				
VRA countries:				
Australia -----	20	24	24	19
Austria -----	3,368	3,901	2,766	2,981
Brazil -----	17,456	8,863	7,415	6,185
Czechoslovakia -----	0	21	21	0
East Germany -----	0	4	0	0
EC countries-----	85,998	100,430	72,576	99,093
Finland -----	8,687	8,780	7,253	1,962
Hungary -----	0	0	0	67
Japan -----	73,238	66,251	48,754	75,055
Mexico -----	19,741	10,160	8,218	9,325
Peoples Rep of China -----	26	106	51	170
Poland -----	375	323	224	480
Portugal -----	0	0	0	0
Romania -----	0	18	18	0
Republic of South Africa -----	0	0	0	1/
Korea, Republic of -----	15,689	12,105	9,259	8,401
Spain -----	20,193	27,906	17,970	24,106
Trinidad and Tobago -----	0	138	138	0
Venezuela -----	0	7	0	0
Yugoslavia -----	0	17	17	3
Total-----	244,791	239,054	174,704	227,847
Other countries:				
Canada -----	45,739	57,153	44,587	46,359
Sweden -----	42,482	52,761	41,262	40,132
Taiwan -----	5,484	8,227	6,113	3,183
India -----	544	546	397	838
Switzerland -----	116	270	209	335
Thailand -----	0	188	89	252
Argentina -----	181	42	42	196
Honduras -----	0	19	19	0
Anguilla -----	0	5	0	0
Israel -----	65	4	4	1/
All others-----	167	4	3	295
Total-----	94,778	119,219	92,725	91,590
Grand total-----	339,569	358,273	267,429	319,437

See footnote(s) at end of table.

Table 29.--Total, stainless and alloy tool steel products: U.S. imports for consumption, by principal sources, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January--September	
			1988	1989
Value (thousand dollars)				
VRA countries:				
Australia -----	95	174	168	99
Austria -----	8,529	12,639	8,942	11,051
Brazil -----	9,993	12,173	10,418	12,833
Czechoslovakia -----	0	33	33	0
East Germany -----	0	6	0	0
EC countries -----	152,144	223,422	153,601	235,427
Finland -----	13,461	19,623	14,989	5,787
Hungary -----	0	0	0	30
Japan -----	144,150	175,325	120,406	194,503
Mexico -----	31,955	19,948	14,948	23,336
Peoples Rep of China -----	108	189	125	248
Poland -----	470	570	358	994
Portugal -----	0	0	0	0
Romania -----	0	30	30	0
Republic of South Africa -----	0	0	0	4
Korea, Republic of -----	25,652	26,936	19,499	22,363
Spain -----	32,952	56,181	36,169	44,230
Trinidad and Tobago -----	0	202	202	0
Venezuela -----	0	32	0	0
Yugoslavia -----	0	22	22	4
Total-----	419,509	547,505	379,910	550,909
Other countries:				
Canada -----	68,819	112,639	84,954	109,185
Sweden -----	93,649	137,391	101,125	107,940
Taiwan -----	13,631	25,622	17,287	12,007
India -----	851	1,039	757	2,226
Switzerland -----	469	1,434	1,073	1,687
Thailand -----	0	458	206	624
Argentina -----	323	65	65	251
Honduras -----	0	35	35	0
Anguilla -----	0	9	0	0
Israel -----	134	77	69	6
All others-----	269	35	27	583
Total-----	178,145	278,804	205,598	234,509
Grand total-----	597,654	826,309	585,508	785,418

1/ Less than 0.5 short tons

Table 30.--Steel mill products and certain fabricated steel products: Unit value of U.S. imports for consumption, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987		1988		January-September	
					1988	1989
(Per short ton)						
Carbon and certain alloy 1/ steel:						
Semifinished 2/-----	211	240	235	258		
Plate-----	332	405	398	403		
Sheet and strip:						
Hot rolled-----	308	364	356	383		
Cold rolled-----	449	509	502	550		
Galvanized-----	503	552	549	580		
Tin plate-----	533	567	558	612		
Tin free-----	509	542	536	568		
Other coated-----	528	590	589	608		
Average, sheet and strip:	433	481	477	514		
Bar:						
Hot finished-----	369	406	400	437		
Cold finished-----	831	598	585	649		
Reinforcing-----	248	262	251	301		
Light shapes-----	315	382	368	349		
Average, bar-----	400	396	387	426		
Wire rod-----	313	347	337	369		
Wire-----	631	691	678	734		
Wire products-----	628	659	648	1,022		
Structural shapes and units:						
Heavy structurals-----	304	376	374	378		
Fabricated structurals-----	898	939	929	1,109		
Average, structurals-----	378	436	433	441		
Rails and related products-----	325	383	379	497		
Pipe and tube:						
Oil country tubular goods-----	536	730	725	753		
Line pipe-----	421	529	521	578		
Mechanical pipe-----	623	675	657	740		
Structural pipe-----	368	507	494	565		
Pressure tubing-----	688	793	741	988		
Other (incl. standard)-----	415	487	480	519		
Average, pipe and tube-----	459	600	591	623		
Average, carbon and certain alloy 1/ steel-----	399	450	443	490		

See footnotes at end of table.

Table 30.--Steel mill products and certain fabricated steel products: Unit value of U.S. imports for consumption, 1987, 1988, and by specified periods, 1988 and 1989
(Per short ton)

Item	1987		1988		January-September	
					1988	1989
Stainless and alloy tool steel:						
Stainless steel:						
Semifinished 2/	816	1,490	1,475	1,721		
Plate	1,766	2,207	2,140	2,985		
Sheet and strip:						
Sheet	1,566	2,067	1,943	2,158		
Strip	2,555	3,331	3,117	3,187		
Average, sheet and strip:	1,637	2,149	2,023	2,321		
Bars and shapes	1,874	2,296	2,146	2,978		
Wire rod	1,747	2,357	2,165	2,896		
Wire	3,007	3,642	3,512	4,225		
Pipe and tube	3,063	3,706	3,472	4,572		
Alloy tool steel (all forms):	1,932	2,116	2,074	1,699		
Average, stainless and alloy steel	1,760	2,306	2,189	2,459		

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, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987		1988		January-September	
	1987	1988	1988	1989	1988	1989
	Quantity (short tons)					
Carbon and certain alloy <u>3/</u> steel:						
Semifinished <u>2/</u>						
Ingots-----	103,967	103,282	101,471	23,387		
Blooms and billets-----	426,208	581,907	473,967	395,391		
Slabs and sheet bars-----	1,702,095	2,097,383	1,679,127	1,274,176		
Total-----	2,232,270	2,782,572	2,254,565	1,692,954		
Plate:						
Carbon-----	1,450,898	1,750,917	1,357,580	926,614		
Alloy-----	104,678	106,172	84,924	76,431		
Total-----	1,555,577	1,857,090	1,442,504	1,003,046		
Sheet and strip:						
Hot rolled:						
Sheet-----	2,123,804	2,199,268	1,602,230	1,273,952		
Strip-----	43,197	49,553	34,706	83,468		
Cold rolled:						
Black plate-----	159,779	145,166	105,305	112,890		
Electrical-----	64,822	64,684	47,361	63,818		
Other sheet-----	2,156,348	2,011,242	1,478,875	1,228,123		
Other strip-----	135,227	126,534	98,110	85,710		
Galvanized-----	2,306,233	1,948,811	1,534,019	1,165,919		
Tin plate-----	332,306	294,552	217,674	260,506		
Tin free-----	101,172	97,460	66,766	86,108		
Other coated-----	323,709	248,111	183,633	184,426		
Total-----	7,746,596	7,185,380	5,368,678	4,544,920		
Bar:						
Hot rolled:						
Carbon-----	443,037	476,951	354,247	298,787		
Alloy-----	160,811	186,902	146,501	123,761		
Cold rolled:						
Carbon-----	152,283	161,345	123,314	94,006		
Alloy-----	40,927	52,093	36,946	36,367		
Reinforcing-----	351,632	357,253	262,619	215,190		
Light structural shapes-----	132,477	126,568	101,971	85,967		
Total-----	1,281,168	1,361,113	1,025,598	854,078		

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, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January-September	
			1988	1989
Quantity (short tons)				
Wire rod and related products:				
Wire rod:				
Carbon-----	1,341,257	1,355,951	1,052,530	817,715
Alloy-----	107,463	118,672	87,324	74,434
Wire:				
Carbon-----	504,898	486,699	376,350	329,441
Alloy-----	31,999	33,028	24,355	30,322
Wire products:				
Nails-----	440,746	364,748	284,117	281,912
Barbed wire-----	16,643	15,538	12,873	9,939
Wire fencing-----	13,263	12,052	9,393	40,709
Bale ties-----	1,719	1,849	1,252	790
Wire strand-----	98,898	88,300	63,048	123,434
Wire rope-----	65,683	77,564	53,698	89,306
Milliners wire-----	12,426	12,400	9,417	1/
Total-----	2,634,993	2,566,801	1,974,358	1,798,003
Structurals:				
Heavy-----	1,884,684	1,955,762	1,539,779	1,221,899
Fabricated-----	268,985	232,705	184,742	114,808
Total-----	2,153,669	2,188,467	1,724,521	1,336,707
Rails and related products:				
Rails-----	213,530	260,006	178,697	170,813
Joint bars and tie plates-----	13,969	8,487	7,928	12,290
Track spikes-----	370	205	201	5,185
Wheels and axles-----	18,120	50,734	37,198	48,433
Total-----	245,988	319,432	224,024	236,720
Pipes and tubes:				
Oil country tubular goods-----	594,463	1,032,296	800,851	303,962
Line pipe-----	526,047	507,914	401,689	392,078
Mechanical pipe-----	284,807	382,270	306,928	230,754
Structural pipe-----	428,758	278,870	218,252	251,111
Pressure tubing-----	27,122	52,100	39,475	37,180
Other (including standard)-----	887,446	996,487	769,739	462,238
Total-----	2,748,644	3,249,937	2,536,935	1,677,323

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, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January-September	
			1988	1989
Quantity (short tons)				
Stainless and alloy tool steel:				
Stainless:				
Semifinished:				
Ingots-----	1,106	3,877	3,815	64
Blooms and billets-----	48,955	40,772	31,767	32,828
Slabs and sheet bars-----	6,664	17,758	12,450	16,552
Total-----	56,725	62,407	48,033	49,444
Plate-----	11,118	15,847	10,978	12,158
Sheet and strip:				
Sheet:				
Hot rolled-----	5,179	7,331	5,058	5,307
Cold rolled-----	114,806	103,577	76,172	79,785
Strip-----	9,309	7,676	5,927	15,983
Total-----	129,295	118,584	87,157	101,075
Bars and shapes-----	37,991	40,724	30,311	24,637
Wire rod-----	18,311	19,210	13,968	16,290
Wire-----	19,084	20,653	14,015	16,234
Pipe and tube-----	26,448	36,752	28,438	29,617
Alloy tool steel (all forms):				
Semifinished 2/-----	6,880	4,408	3,580	925
Bars-----	19,792	28,867	22,985	1,119
Other-----	13,927	10,820	7,965	67,938
Total-----	40,599	44,095	34,529	69,983

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, 1987, 1988, and by specified periods, 1988 and 1989

Item	1987		1988		January-September	
					1988	1989
Share of product group totals (percent)						
Carbon and certain alloy <u>3/</u> steel:						
Semifinished <u>2/</u>						
Ingots-----	4.66	3.71	4.50	1.38		
Blooms and billets-----	19.09	20.91	21.02	23.36		
Slabs and sheet bars-----	76.25	75.38	74.48	75.26		
Total-----	100.00	100.00	100.00	100.00		
Plate:						
Carbon-----	93.27	94.28	94.11	92.38		
Alloy-----	6.73	5.72	5.89	7.62		
Total-----	100.00	100.00	100.00	100.00		
Sheet and strip:						
Hot rolled:						
Sheet-----	27.42	30.61	29.84	28.03		
Strip-----	0.56	0.69	0.65	1.84		
Cold rolled:						
Black plate-----	2.06	2.02	1.96	2.48		
Electrical-----	0.84	0.90	0.88	1.40		
Other sheet-----	27.84	27.99	27.55	27.02		
Other strip-----	1.75	1.76	1.83	1.89		
Galvanized-----	29.77	27.12	28.57	25.65		
Tin plate-----	4.29	4.10	4.05	5.73		
Tin free-----	1.31	1.36	1.24	1.89		
Other coated-----	4.18	3.45	3.42	4.06		
Total-----	100.00	100.00	100.00	100.00		
Bar:						
Hot rolled:						
Carbon-----	34.58	35.04	34.54	34.98		
Alloy-----	12.55	13.73	14.28	14.49		
Cold rolled:						
Carbon-----	11.89	11.85	12.02	11.01		
Alloy-----	3.19	3.83	3.60	4.26		
Reinforcing-----	27.45	26.25	25.61	25.20		
Light structural shapes-----	10.34	9.30	9.94	10.07		
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, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	1987	1988	January-September	
			1988	1989
Share of product group totals (percent)				
Wire rod and related products:				
Wire rod:				
Carbon-----	50.90	52.83	53.31	45.48
Alloy-----	4.08	4.62	4.42	4.10
Wire:				
Carbon-----	19.16	18.96	19.06	18.30
Alloy-----	1.21	1.29	1.23	1.60
Wire products:				
Nails-----	16.73	14.21	14.39	15.60
Barbed wire-----	0.63	0.61	0.65	0.50
Wire fencing-----	0.50	0.47	0.48	2.20
Bale ties-----	0.07	0.07	0.06	0.00
Wire strand-----	3.75	3.44	3.19	6.80
Wire rope-----	2.49	3.02	2.72	4.90
Milliners wire-----	0.47	0.48	0.48	1.00
Total-----	100.00	100.00	100.00	100.00
Structurals:				
Heavy-----	87.51	89.37	89.29	91.40
Fabricated-----	12.49	10.63	10.71	8.50
Total-----	100.00	100.00	100.00	100.00
Rails and related products:				
Rails-----	86.80	81.40	79.77	72.10
Joint bars and tie plates-----	5.68	2.66	3.54	5.10
Track spikes-----	0.15	0.06	0.09	2.10
Wheels and axles-----	7.37	15.88	16.60	20.40
Total-----	100.00	100.00	100.00	100.00
Pipes and tubes:				
Oil country tubular goods-----	21.63	31.76	31.57	18.10
Line pipe-----	19.14	15.63	15.83	23.30
Mechanical pipe-----	10.36	11.76	12.10	13.70
Structural pipe-----	15.60	8.58	8.60	14.90
Pressure tubing-----	0.99	1.60	1.56	2.20
Other (including standard)-----	32.29	30.66	30.34	27.50
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, 1987, 1988, and by specified periods, 1988 and 1989--Continued

Item	January-September			
	1987	1988	1988	1989
Share of product group totals (percent)				
Stainless and alloy tool steel:				
Stainless:				
Semifinished:				
Ingots-----	1.95	6.21	7.94	0.13
Blooms and billets-----	86.30	65.33	66.14	66.39
Slabs and sheet bars-----	11.75	28.45	25.92	33.48
Total-----	100.00	100.00	100.00	100.00
Plate-----	100.00	100.00	100.00	100.00
Sheet and strip:				
Sheet:				
Hot rolled-----	4.01	6.18	5.80	5.25
Cold rolled-----	88.79	87.34	87.40	78.94
Strip-----	7.20	6.47	6.80	15.81
Total-----	100.00	100.00	100.00	100.00
Bars and shapes-----	100.00	100.00	100.00	100.00
Wire rod-----	100.00	100.00	100.00	100.00
Wire-----	100.00	100.00	100.00	100.00
Pipe and tube-----	100.00	100.00	100.00	100.00
Alloy tool steel (all forms):				
Semifinished ^{2/} -----	16.95	10.00	10.37	1.32
Bars-----	48.75	65.47	66.57	1.60
Other-----	34.30	24.54	23.07	97.08
Total-----	100.00	100.00	100.00	100.00

^{1/} Milliners wire is included in total wire products.

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

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

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

Table 32.--Steel mill products and certain fabricated steel products:
U.S. imports for consumption, by customs areas, 1987, 1988, and by
specified periods, 1988 and 1989

(Short tons)

Item	1987		1988		January-September	
					1988	1989
Atlantic Coast	4,673,187	4,743,215	3,775,945	2,793,917		
Great Lakes-Canadian border	6,594,724	6,342,613	4,515,490	3,962,089		
Gulf Coast-Mexican border	4,930,247	5,938,464	4,852,498	3,441,220		
Off-shore	374,262	403,506	295,462	301,610		
Pacific Coast	4,366,056	4,441,267	3,379,217	2,964,354		
Total	20,938,475	21,869,065	16,818,613	13,463,189		

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

Table 33.--Steel mill products and certain fabricated steel products: U.S. imports, for consumption through the Atlantic Coast customs area, 1987, 1988, and by specified periods, 1988 and 1989
(Short tons)

Item	1987		1988		January-September	
					1988	1989
Carbon and certain alloy 1/ ¹ steel:						
Semifinished 2/ ² -----	384,562	471,964	407,328	254,221		
Plate-----	258,880	331,537	268,309	166,202		
Sheet and strip-----	1,900,352	1,771,637	1,411,174	1,022,123		
Bars and certain shapes-----	222,055	220,708	171,484	111,041		
Wire rod-----	310,731	297,606	233,141	144,433		
Wire-----	119,558	108,857	83,496	68,012		
Wire products-----	266,335	220,011	167,096	194,259		
Structural shapes and units-----	581,450	602,240	483,943	398,962		
Rails and related products-----	25,273	36,885	30,043	22,312		
Pipe and tube-----	462,605	523,784	402,464	260,436		
Total-----	4,531,600	4,585,229	3,658,477	2,642,000		
Stainless and alloy tool steel:						
Stainless steel:						
Semifinished 2/ ² -----	15,595	24,249	18,256	11,341		
Plate-----	4,167	6,134	4,021	6,140		
Sheet and strip-----	42,918	45,874	32,968	36,447		
Bars and certain shapes-----	19,945	22,371	17,569	13,837		
Wire rod-----	13,117	13,526	9,830	12,299		
Wire-----	10,357	10,593	7,003	8,804		
Pipe and tube-----	10,147	12,391	10,018	11,977		
Tool steel (all forms)-----	25,340	22,848	17,823	51,072		
Total-----	141,586	157,986	117,468	151,916		
Grand Total-----	4,673,187	4,743,215	3,775,945	2,793,917		

^{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 Great Lakes-Canadian border customs area, 1987, 1988, and by specified periods, 1988 and 1989
(Short tons)

Item	1987		1988		January-September	
					1988	1989
Carbon and certain alloy 1/						
Steel:						
Semifinished 2/	498,851		414,978		281,964	307,897
Plate	663,496		723,681		527,523	361,263
Sheet and strip	2,630,195		2,396,464		1,626,324	1,427,326
Bars and certain shapes	561,285		625,771		463,033	382,498
Wire rod	565,070		545,070		396,541	385,637
Wire	251,126		253,271		194,626	178,678
Wire products	95,457		83,750		65,696	82,423
Structural shapes and units	566,003		522,423		376,615	273,095
Rails and related products	107,729		179,981		123,995	122,408
Pipe and tube	564,259		488,579		378,408	354,892
Total	6,503,470		6,233,970		4,434,725	3,876,118
Stainless and alloy tool steel:						
Stainless steel:						
Semifinished 2/	27,149		34,966		27,260	30,128
Plate	1,971		3,246		1,831	1,525
Sheet and strip	34,156		33,923		23,925	27,048
Bars and certain shapes	4,170		4,098		2,723	1,492
Wire rod	1,047		661		489	586
Wire	4,794		6,053		4,323	4,459
Pipe and tube	6,134		7,833		6,404	5,657
Tool steel (all forms)	11,832		17,864		13,810	15,076
Total	91,234		108,644		80,765	85,971
Grand Total	6,594,724		6,342,613		4,515,490	3,962,089

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

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

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

Table 35.--Steel mill products and certain fabricated steel products: U.S. imports, for consumption through the Gulf Coast-Mexican border customs area, 1987, 1988, and by specified periods, 1988 and 1989
(Short tons)

Item	1987		1988		January-September	
			1988	1989		
Carbon and certain alloy 1/						
steel:						
Semifinished 2/						
Plate	866,421	1,061,770	983,364	573,966		
Sheet and strip	419,658	567,614	463,862	319,736		
Bars and certain shapes	1,515,043	1,558,244	1,232,046	1,008,949		
Wire rod	131,573	137,056	103,582	104,525		
Wire	257,709	349,946	288,708	191,005		
Wire products	76,094	64,524	50,913	46,409		
Structural shapes and units	107,410	105,823	80,805	106,794		
Rails and related products	473,758	493,074	398,465	263,643		
Pipe and tube	61,358	64,016	40,781	60,495		
Total	959,115	1,493,874	1,177,023	719,286		
Total	4,868,139	5,895,942	4,819,551	3,394,808		
Stainless and alloy tool steel:						
Semifinished 2/						
Plate	13,974	3,131	2,464	7,975		
Sheet and strip	2,714	3,233	2,546	2,821		
Bars and certain shapes	29,042	16,038	13,216	19,188		
Wire rod	5,951	6,668	4,507	4,061		
Wire	1,117	1,220	942	1,383		
Pipe and tube	1,350	606	447	852		
Tool steel (all forms)	6,665	10,896	8,123	9,022		
Total	1,295	730	702	1,109		
Total	62,108	42,523	32,947	46,412		
Grand Total	4,930,247	5,938,464	4,852,498	3,441,220		

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

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

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

Table 36.---Steel mill products and certain fabricated steel products: U.S. imports, for consumption through the Off-shore customs area, 1987, 1988, and by specified periods, 1988 and 1989
(Short tons)

Item	1987		1988		January-September	
					1988	1989
Carbon and certain alloy 1/ ¹ steel:						
Semifinished 2/ ²	0	3/ ³	13,906	0	8,745	0
Plate	6,693		72,445	47,228	47,228	4,349
Sheet and strip	90,238		157,820	130,447	130,447	51,761
Bars and certain shapes	164,360		16,953	16,367	16,367	161,372
Wire rod	11,940		14,759	11,287	11,287	5,174
Wire	11,147		10,190	7,652	7,652	9,189
Wire products	7,285		21,786	17,234	17,234	4,683
Structural shapes and units	22,499		88	11	11	23,863
Rails and related products	445		93,829	55,377	55,377	39,301
Pipe and tube	58,545		401,758	294,327	294,327	39,675
Total	373,151					300,366
Stainless and alloy tool steel:						
Stainless steel:						
Semifinished 2/ ²	0	0	0	0	0	0
Plate	0	3/ ³	0	3/ ³	3/ ³	1
Sheet and strip	1		0	0	0	150
Bars and certain shapes	0		15	15	15	3/ ³
Wire rod	0		0	0	0	779
Wire	1,074		1,690	1,078	1,078	779
Pipe and tube	36		42	42	42	18
Tool steel (all forms)	0		0	0	0	295
Total	1,111		1,748	1,136	1,136	1,244
Grand Total	374,262		403,506	295,462	295,462	301,610

1/ Certain alloy refers to alloy steel other than stainless or tool steel.
2/ Semifinished steel includes ingots, blooms, billets, slabs, and steel bars.
3/ Less than 0.5 short tons.

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

Table 37. --Steel mill products and certain fabricated steel products: U.S. imports, for consumption through the Pacific Coast customs area, 1987, 1988, and by specified periods, 1988 and 1989

Item	(Short tons)		
	1987	1988	January-September 1988 1989
Carbon and certain alloy 1/			
steel:			
Semifinished 2/			
Plate	482,436	833,859	581,908
Sheet and strip	206,851	220,352	174,065
Bars and certain shapes	1,610,768	1,386,590	1,051,707
Wire rod	201,894	219,758	157,052
Wire	303,270	265,048	205,118
Wire products	78,972	78,336	60,584
Structural shapes and units	172,890	152,677	112,548
Rails and related products	509,959	548,943	448,264
Pipe and tube	51,183	38,461	29,195
Total	704,321	649,871	523,663
Total	4,322,545	4,393,893	3,344,104
Stainless and alloy tool steel:			
Stainless steel:			
Semifinished 2/	7	61	52
Plate	2,266	3,233	2,579
Sheet and strip	23,178	22,749	17,069
Bars and certain shapes	7,925	7,573	5,497
Wire rod	3,030	3,803	2,707
Wire	1,508	1,711	1,163
Pipe and tube	3,465	5,590	3,850
Tool steel (all forms)	2,132	2,653	2,195
Total	43,511	47,373	35,112
Grand Total	4,366,056	4,441,267	3,379,217
			2,930,658
			556,870
			151,496
			1,034,760
			94,642
			165,900
			57,475
			157,932
			377,144
			31,205
			303,035
			2,930,658
			33,896
			2,964,554

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

**Definition of Certain Terms, and Description 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). (See appendix B).

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 (Appendix C).

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).

(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, 7224.90.0070 of the HTS.

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

(E) 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 and 7218.90.0090 of the HTS.

(F) 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, 7225.40.3000, 7225.50.6000, 7226.91.5000 of the HTS.

(C) Stainless steel plate; provided for in items 7219.11.0000, 7219.12.0000, 7219.21.0000, 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, 7208.13.1350, 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, 7225.30.7000, 7225.40.7000 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, 7211.297030, 7211.29.7060, 7211.29.7090, 7226.91.7000 and 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, 7209.42.000, 7209.43.0000, 7209.44.0000, 7210.70.3000, 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, 7226.92.5000, 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, 7210.70.6060, 7212.21.0000, 7212.29.0000, 7212.30.1030, 7212.30.1090, 7212.30.3000, and 7212.30.5000 of the HTS.

(E) Tin plate; provided for in items 7210.11.0000, 7210.12.0000, and 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, and 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, and 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, 7219.33.0010, 7219.33.0015, 7219.33.0030, 7219.33.0045, 7219.33.0060, 7219.34.0010, 7219.34.0050, 7219.35.0010, and 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, and 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 7215.100000, 7215.20.0000, 7215.30.0000, 7215.40.0000 7215.90.3000 and 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, and 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 and 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, and 7228.70.3080 of the HTS, and included in AISI product group No. 14A.

(vii) Stainless steel bars and shapes; provided for in items 7221.10.0000, 7221.00.0060, 7221.00.0080, 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 and 7213.50.0080 of the HTS.

(B) Alloy steel wire rod; provided for in items 7227.20.0000, and 7227.90.6000 of the HTS.

(C) Stainless steel wire rod; provided for in items 7221.00.0020 and 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, and 7217.39.5000 of the HTS.

(B) Alloy steel wire; provided for in items 7229.20.000,
 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, and 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, and 7317.00.5590, 7317.00.7500, and 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, arm
 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 diamet
 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, 7314.41.1000 7314.42.0000, 7314.49.3000
 7314.49.6000, and 7314.50.0000 of the HTS. The products are included in AIS
 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, not covered with nonmetallic material, as provided for in items 7312.10.1030, 7312.10.1060, 7312.10.3005, 7312.10.3015, 7312.10.3065, 7312.10.3075, and 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, and 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, and 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 7302.10.5000, 7302.10.1020, 7302.10.1040, 7302.10.1060, and 7302.10.1080 of the HTS. Rails are included in AISI product group Nos. 7, 8 and 41.

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

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

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

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

(i) Oil country tubular goods, provided for in items 7304.20.1000, 7304.20.2000, 7304.20.3000, 7304.20.4000, 7304.20.5010, 7304.20.5050, 7304.20.6010, 7304.20.6050, 7304.20.7000, 7304.20.8000, 7305.20.2000, 7305.20.4000, 7305.20.6000, 7305.20.8000, 7306.20.1030, 7306.20.1090, 7306.20.2000, 7306.20.3000, 7306.20.4000, 7306.20.6010, 7306.20.6050, 7306.20.8010, 7306.20.8050 of the HTS. Oil country tubular goods are included in AISI product group No. 19.

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

(iii) Mechanical pipe; provided for in items 7304.31.3000, 7304.31.6050, 7304.39.0050, 7304.39.0075, 7304.51.5000, 7304.51.5090, 7304.59.1000, 7304.59.6000, 7304.59.8000, 7304.90.5000, 7304.90.7000, 7306.30.1000, 7306.30.5015, 7306.30.5020, 7306.30.5035, 7306.3.5060, 7306.30.5075, 7306.50.1000, 7306.50.5030, 7306.50.5050, 7306.50.5070, 7306.60.5000, 7306.60.7000 of the HTS. Mechanical pipe is included in AISI product group 21A.

(iv) Structural pipe; provided for in items 7304.90.1000, 7304.903000, 7305.312000, 7305.31.4000, 7305.31.6000, 7306.30.3000, 7306.50.3000, 7306.60.1000, and 7306.60.3000 of the HTS. Structural pipe is included in AISI product category 22A.

(v) Pressure tubing; provided for in items 7304.31.6010, 7304.39.0005, 7304.51.5030, 7304.51.5050, 7304.59.2030, 7304.59.2050, 7306.30.5010 and 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, and 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 7304.39.0015, 7304.39.0030, 7304.39.0040, 7304.39.0070, 7304.39.0090, 7305.31.4000, 7305.39.1000, 7305.39.5000, 7305.90.1000, 7305.90.5000, 7306.30.5025, 7306.30.5030, 7306.30.5040, 7306.30.5050 and 7306.30.5065, 7306.30.5070, 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, 7225.30.5030, 7225.30.5060, 7225.40.1015, 7225.40.1090, 7225.40.5030, 7225.40.5060, 7225.50.1030, 7225.50.1060, 7226.20.0000, 7226.91.1030, 7226.91.1060, 7226.91.3030, 7226.91.3060, 7226.92.1030, 7226.92.1060, 7226.92.3030, 7226.92.3060, 7227.10.0000, 7227.90.1030, 7227.90.1060, 7227.90.2030, 7227.90.2060, 7228.10.0010, 7228.10.0030, 7228.10.0060, 7228.30.2000, 7228.30.4000, 7228.30.6000, 7228.50.1010, 7228.50.1020, 7228.50.1040, 7228.50.1060, 7228.50.1080, 7228.60.1030, 7228.60.1060, and 7229.10.0000 of the HTS. Alloy tool steel is included in AISI product group No. 17. Consistent with previous Commission investigations and industry practice, tool steel of the type described in headnote 1(h) of chapter 72 of the HTS, which is commonly referred to as bearing steel, is included with "certain alloy" products.

Appendix B

**Definitions of Certain Specialty Steels
Including Alloy Tool Steel**

HARMONIZED TARIFF SCHEDULE of the United States

Annotated for Statistical Reporting Purposes

SUBCHAPTER III

TEMPORARY MODIFICATIONS ESTABLISHED PURSUANT TO TRADE LEGISLATION

XXII
99-21U.S. Notes

1. This subchapter contains the temporary modifications of the provisions in the tariff schedule established pursuant to trade legislation. Unless otherwise stated, the modified provisions are effective until suspended or terminated. Unless the context requires otherwise, any article described in the provisions of this subchapter, for which rates of duty are herein provided, if entered during the period specified, is subject to duty at the rate set forth herein in lieu of the rate provided therefor in chapters 1 to 98.
2. For the purposes of subheadings 9903.17.05 through 9903.17.30, inclusive, the term "product of the European Economic Community" refers to products of the member states of this instrumentality which includes Belgium, Denmark, France, the Federal Republic of Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Portugal, Spain and the United Kingdom.
3. For the purposes of subheadings 9903.41.05 and 9903.41.10, the duties provided for in this subchapter are cumulative duties which apply in addition to the duties otherwise imposed on the articles involved.
4. Additional duties and quantitative limitations on certain stainless steel and alloy tool steel.--The provisions of this note apply to subheadings 9903.72.00 through 9903.72.44 of this subchapter. The duties provided for in subheadings 9903.72.00 and 9903.72.01 and the quantitative limitations set forth in subheadings 9903.72.10 through 9903.72.34 are in addition to the duties provided for the subject articles in chapter 72 or in subheading 9808.00.30, where applicable.
 - (a) Definitions.--For the purposes of this subchapter:
 - (i) The term "restraint period" refers to a period provided for in the article description column for subheadings 9903.72.10 through 9903.72.34;
 - (ii) The terms "razor blade steel" and "chipper knife steel" are defined as provided in additional U.S. notes 1(d) and 1(f), respectively, to chapter 72;
 - (iii) The term "band saw steel" refers to alloy tool steel which contains, in addition to iron, each of the following elements by weight in the amounts specified:

(A) carbon:	not less than 0.47 nor more than 0.53 percent;
(B) manganese:	not less than 0.6 nor more than 0.9 percent;
(C) sulfur:	none, or not more than 0.015 percent;
(D) phosphorus:	none, or not more than 0.025 percent;
(E) silicon:	not less than 0.1 nor more than 0.25 percent;
(F) chromium:	not less than 0.9 nor more than 1.1 percent;
(G) nickel:	not less than 0.5 nor more than 0.7 percent;
(H) molybdenum:	not less than 0.9 nor more than 1.1 percent; and
(I) vanadium:	not less than 0.08 percent nor more than 0.15 percent;
 - (iv) The term "cladding grade 434 stainless steel flat-rolled products" refers to stainless steel flat-rolled products, not under 1.397 mm and not over 1.651 mm in thickness, not under 64.77 cm and not over 66.675 cm in width, containing by weight not more than 0.12 percent carbon; not less than 18 percent nor more than 18 percent chromium; and not less than 0.75 percent nor more than 1.25 percent molybdenum; certified by the importer of record or the ultimate consignee at the time of entry for use in the manufacture of stainless steel-clad-aluminum automobile trim;
 - (v) The term "stainless steel of the type described in U.S. note 4(a)(v) to this subchapter" refers to the stainless steel grades described in either subparagraph (A) or (B) below which contain, in addition to iron, each of the following elements by weight in the amounts specified:

(A) carbon:	not more than 0.02 percent;
silicon:	not less than 0.2 percent nor more than 0.8 percent;
manganese:	not less than 0.2 percent nor more than 1 percent;
chromium:	not less than 19.5 percent nor more than 20.5 percent;
nickel:	not less than 17.5 percent nor more than 18.5 percent;
molybdenum:	not less than 6 percent nor more than 6.5 percent;
nitrogen:	not less than 0.18 percent nor more than 0.22 percent;
copper:	not less than 0.5 percent nor more than 1 percent;
sulfur:	not more than 0.03 percent;
phosphorus:	not more than 0.04 percent; or

HARMONIZED TARIFF SCHEDULE of the United States

Annotated for Statistical Reporting Purposes

II
99-22

(h) Regarding shipments of mold blocks from Canada into the United States:

- (i) The term "mold blocks" refers to products of either stainless steel bar or alloy tool steel whose chemistry meets that of either H13 hot-work tool steel forged bars, P20 mold steel forged bars, or hardenable Cr stainless steel 420 forged bars, as defined in subparagraphs (a), (b), and (c) below:
- (A) "H13 hot-work tool steel forged bars" refers to forged bars of the alloy tool steel grade containing by weight, in addition to iron, not less than 0.32 percent nor more than 0.45 percent carbon; not less than 4.75 percent nor more than 5.50 percent chromium; not less than 0.20 percent nor more than 0.5 percent manganese; not less than 1.10 percent nor more than 1.75 percent molybdenum; not more than 0.030 percent phosphorous; not more than 0.030 percent sulfur; not less than 0.80 percent nor more than 1.20 percent silicon; and not less than 0.80 percent nor more than 1.20 percent vanadium.
- (B) "P20 mold steel forged blocks" refers to forged bars of the alloy tool steel grade containing by weight, in addition to iron, not less than 0.28 percent nor more than 0.40 percent carbon; not less than 1.40 percent nor more than 2.00 percent chromium; not less than 0.60 percent nor more than 1.00 percent manganese; not less than 0.30 percent nor more than 0.55 percent molybdenum; not more than 0.030 percent phosphorous; not more than 0.030 percent sulfur; and not less than 0.20 percent nor more than 0.80 percent silicon.
- (C) "Hardenable Cr Stainless Steel 420 forged bars" refers to stainless steel forged bars containing by weight over 0.15 percent carbon; not less than 12.00 percent nor more than 14 percent chromium; not more than 1.00 percent manganese; not more than 0.040 percent phosphorous; not more than 0.030 percent sulfur; not more than 1.00 percent silicon.
- (ii) Mold blocks may only be forged bars of P20 mold steel, forged bars of H13 hot-work tool steel, and hardenable Cr stainless steel 420 forged bars of Canadian origin which are used in the United States to produce plastic injection molds, die-casting molds, and metal forming dies for automotive components. If rectangular, these bars must be between 10.16 and 101.6 cm in thickness and between 33.02 and 182.88 cm in width. Round bars of these steels must be between 20.32 and 60.96 cm in diameter. The rectangular bars must be machined on four faces at 90 degrees. In addition, one surface must be machined not to exceed 250AA roughness height (250 R.M.S. value), and surfaces must be perpendicular within 0.1588 cm. The round bars must be machined on both end faces, and their periphery must be machined not to exceed 250AA roughness height (250 R.M.S. value).
- (iii) In order for the product to be considered a mold block, the Canadian government and the importer must certify that the product meets the requirements set forth in subparagraphs (i) and (ii) above. The Canadian government will certify that the tonnage in the shipment, when added to other such certified shipments during the same restraint period, does not exceed the tonnage allowed under subheading 9903.72.40, 9903.72.42, or 9903.72.44, as appropriate. Such certification must be endorsed by the competent Canadian government authorities and presented to U.S. Customs at the time of entry into the United States.
- (iv) The Government of the United States will allow entry of such mold blocks only to the extent that the quantity of mold blocks entered does not exceed the quantities set forth in subheadings 9903.72.40, 9903.72.42, and 9903.72.44, respectively. Entries in excess of such quantity will be subject to the restraint levels described in subheadings 9903.72.10, 9903.72.12, 9903.72.14, 9903.72.30, 9903.72.32, and 9903.72.34, as appropriate.

5. Quantitative limitations on certain tungsten articles.--The provisions of this note apply to subheadings 9903.28.05 through 9903.28.25, inclusive. The limitations imposed are in addition to the duties provided for the restrained articles in chapter 28 or in chapter 98, where applicable. The quantitative limitations shall include imports entered, or withdrawn from warehouse for consumption, informal entries, temporary imports under bond, and imports under chapter 98.

(a) Definitions.--For purposes of this subchapter--

- (i) the term "tungsten articles" means ammonium paratungstate provided for in subheading 2841.80 and tungstic acid provided for in subheading 2825.90.50;
- (b) Export certificate.--Effective January 1, 1988, none of the tungsten articles provided for herein that are exported from the People's Republic of China (the PRC) shall be entered, or withdrawn from warehouse for consumption, unless such tungsten articles are accompanied by a validated export certificate issued by the competent authority of the Government of the People's Republic of China;
- (c) Carryover.--Whenever the specified limit of imports has not been entered during a period, an amount not to exceed 5 percent (except that the United States Trade Representative may by prior determination permit a carryover of greater than 5 percent) of the limit specified in the period in which the shortfall occurred may be entered in the subsequent period.

HARMONIZED TARIFF SCHEDULE of the United States

Annotated for Statistical Reporting Purposes

XXII
99-23

(F)	carbon:	not less than 0.92 percent nor more than 1.02 percent;
	manganese:	not less than 0.25 percent nor more than 0.4 percent;
	sulfur:	not more than 0.025 percent;
	phosphorus:	not more than 0.025 percent;
	silicon:	not less than 0.25 percent nor more than 0.4 percent;
	chromium:	not less than 1.65 percent nor more than 1.95 percent;
	nickel:	not more than 0.25 percent;
	copper:	not more than 0.35 percent;
	molybdenum:	not less than 0.18 percent nor more than 0.4 percent;
	aluminum:	not more than 0.05 percent;

certified by the importer of record or the ultimate consignee at the time of entry for use in the manufacture of ball or roller bearings.

- (ix) The term "stainless steel of the type described in U.S. note 4(a)(ix) to this subchapter" refers to stainless steel which contains by weight less than 1 percent carbon and over 11.5 percent chromium.
- (b) Shortfall.--During the last 30-day period of a restraint period, if the United States Trade Representative (USTR) determines that any quota quantity under an item hereof is unlikely to be used during that restraint period, the USTR may, to the extent permitted by law, modify the quota quantity for that item during the remainder of that restraint period to reallocate the shortfall or any portion thereof to the quota quantity of any other item, such modifications to be effective on the date of their publication in the Federal Register.
- (c) Carryover.--Whenever the quota quantity specified for any of the individually named countries for an item has not been entered during any semi-annual restraint period, entry may be made during the subsequent semi-annual restraint period of an amount up to 20 percent (10 percent in the case of shortfalls occurring in the second semi-annual restraint period in any quota year) of the base limit for the restraint period in which the shortfall occurs, but not to exceed the difference between the quota quantity specified for such restraint period and the amount entered during that period; and such amount shall not be counted against the quota quantity thereof.
- (d) Exceeding restraint levels.--The restraint level for any quota quantity allocated to any of the individually named countries may be exceeded by not more than 10 percent during the first semi-annual restraint period in any quota year, by not more than 3 percent in the second semi-annual restraint period in any quota year and shall not be exceeded in the period from July 20, 1989 through September 30, 1989. If a quota quantity is exceeded during a restraint period, a downward adjustment of the corresponding quota quantity for the next semi-annual restraint period in the absolute amount the preceding restraint level was exceeded shall be made.
- (e) Adjustments.--If any country-by-country allocations of quota quantities are made by the USTR, the USTR may make the necessary adjustments to the appropriate quota quantities.
- (f) United States International Trade Commission (USITC) surveys.--The USITC shall conduct annual mandatory surveys with respect to the products subject to import relief under each item involved to obtain from domestic producers data by calendar quarter on profits, orders and inventories, and annual data on production, shipments, employment, capital expenditures, capacity, and research and development expenditures. The initial survey shall cover calendar year 1987, and the results shall be published by March 31, 1988. The final survey shall cover calendar year 1988, and the results shall be published by March 31, 1989. With each annual survey, the USITC shall also report the production, capacity and capacity utilization, to the extent the information can be obtained, for each country which is a major supplier of imports, and any projected changes in production, capacity and capacity utilization for those countries.
- (g) Products Subject to Certain Export Restraint Agreements.--
- (i) The duties provided for in subheadings 9903.72.00 and 9903.72.01 shall not apply to products of Australia, Austria, Brazil, Czechoslovakia, the European Communities, German Democratic Republic, Hungary, Japan, Mexico, People's Republic of China, Poland, the Republic of Korea, Romania, South Africa, Venezuela or Yugoslavia, exported to the United States on or after March 1, 1986. The duties provided for in subheadings 9903.72.00 and 9903.72.01 shall not apply to products of Trinidad and Tobago exported to the United States on or after October 15, 1987.
 - (ii) The quantitative limitations provided for in subheadings 9903.72.10 through 9903.72.24, inclusive, shall not apply to products of Brazil, or the following Member States of the European Communities: Belgium, Denmark, Federal Republic of Germany, France, Greece, Ireland, Italy, Luxembourg, the Netherlands, and the United Kingdom of Great Britain and Northern Ireland.
 - (iii) The quantitative limitations provided for in subheadings 9903.72.30 through 9903.72.34, inclusive, shall not apply to products of Austria, Brazil, or the following Member States of the European Communities: Belgium, Denmark, Federal Republic of Germany, France, Greece, Ireland, Italy, Luxembourg, the Netherlands, and the United Kingdom of Great Britain and Northern Ireland.

Appendix C

**Definitions of Certain Steel Products and
Specialty Steel Relief Provisions
(Federal Register Notice 52897)**

**OFFICE OF THE UNITED STATES
TRADE REPRESENTATIVE**

**Implementation of Modifications in
Specialty Steel Import Relief**

AGENCY: Office of the United States
Trade Representative.

ACTION: Notice.

SUMMARY: This notice converts to the Harmonized System product definitions for imports of certain specialty steel subject to increased tariffs or quotas and makes modifications to the Harmonized Tariff schedule of the United States to implement such conversion.

EFFECTIVE DATE: January 1, 1989.

FOR FURTHER INFORMATION CONTACT:
Robert Cassidy, Office of the United States Trade Representative, (202) 395-4510 or Michael Rollin, Office of Agreements Compliance, Import Administration, Department of Commerce, (202) 377-4037.

SUPPLEMENTARY INFORMATION:
Presidential Proclamation 5679 of July 16, 1987 (52 FR 27306) provided for the temporary imposition of increased tariffs and quantitative restrictions on certain stainless steel and alloy tool steel imported into the United States, pursuant to section 203 of the Trade Act of 1974. Proclamation 5679 authorizes the U.S. Trade Representative to take such actions and perform such functions for the United States as may be necessary to administer and implement the relief, including negotiating orderly marketing agreements and allocating quota quantities on a country-by-country basis. The U.S. Trade Representative is also authorized to make modifications in the TSUS headings of items proclaimed by the President in order to implement such actions.

On January 1, 1989, the TSUS will be replaced by the Harmonized Tariff Schedule of the United States (HTS). Accordingly, the U.S. Trade Representative has determined that the following revisions to Chapter 98, subchapter III, of the HTS are required for continued implementation of Proclamation 5679 after December 31, 1988.

Replace the entire text of U.S. note 4(a)(ii) with the following:

The term "*razor blade steel of the type described in U.S. note 4(a)(ii) to this subchapter*" refers to products of stainless steel of the type described in U.S. note 4(a)(ix) to this subchapter, which are flat rolled, not over 0.25mm in thickness and not over 2.28cm in width—and, when cold rolled, are over 1.27cm in width—contain by weight not less than 11.5 percent, and not

over 14.7 percent chromium, and are certified at the time of entry to be used in the manufacture of razor blades. The terms "*concrete reinforcing bars and rods*," "*chipper knife steel*" and "*ball bearing steel*" are defined as provided in additional U.S. notes 1(c), 1(f) and 1(h), respectively, the chapter 72:

Replace the entire text of U.S. note 4(a)(vi) with the following:

The term "*flapper valve steel*" refers to products of stainless steel of the type described in U.S. note 4(a)(ix) to this subchapter, which are flat rolled, not over 1.27mm in thickness and not over 30.48 cm in width—and, when cold rolled, are over 1.27cm in width—and are certified by the importer of record or the ultimate consignee at the time of entry for use in the manufacture of stainless steel flapper valves for compressors:

Replace the entire text of U.S. note 4(a)(vii) with the following:

The term "*rotor steel for hysteresis motors*" refers to products of tool steel of the type described in U.S. note 4(a)(xi) to this subchapter, which are flat rolled, not over 1.27mm in thickness and not over 30.48cm in width—and, when cold rolled, are over 1.27cm in width—contain by weight not less than 0.5 percent carbon and not less than 5.5 percent tungsten, and are certified by the importer of record or the ultimate consignee at the time of entry for use in the manufacture of rotor rings or cups for hysteresis motors:

Replace the period (".") at the end of U.S. note 4(a)(ix) with a semicolon (";").

Insert the following new U.S. notes after U.S. note 4(a)(ix):

4(a)(x) The term "*alloy steel of the type described in U.S. note 4(a)(x) to this subchapter*" refers to steel which contains one or more of the following elements in the quantity, by weight, respectively indicated: over 1.65 percent manganese, or over 0.25 percent phosphorus, or over 0.35 percent sulfur, or over 0.60 percent silicon, or over 0.60 percent copper, or over 0.30 percent aluminum, or over 0.50 percent chromium, or over 0.30 percent cobalt, or over 0.35 percent lead, or over 0.50 percent nickel, or over 0.30 percent tungsten, or over 0.10 percent of any other metallic element:

4(a)(xi) The term "*tool steel of the type described in U.S. note 4(a)(xi) to this subchapter*" refers to alloy steel of the type described in U.S. note 4(a)(x) to this subchapter containing the following combination of elements in the quantity, by weight, respectively indicated:

- (A) Not less than 1.0 percent carbon and over 11.0 percent chromium; or
- (B) Not less than 0.3 percent carbon and 1.25 percent of 11.0 percent inclusive chromium; or
- (C) Not less than 0.85 percent carbon and 1.0 percent to 1.8 percent inclusive manganese;

- (D) 0.9 percent to 1.2 percent inclusive chromium and 0.9 percent to 1.4 percent inclusive molybdenum; or
- (E) not less than 0.5 percent carbon and not less than 3.5 percent molybdenum; or
- (F) not less than 0.5 percent carbon and not less than 5.5 percent tungsten;

4(a)(xii) The term "*high speed tool steel of the type described in U.S. note 4(a)(xii) to this subchapter*" refers to all tool steel of the type described in U.S. note 4(a)(xi) to this subchapter containing by weight not less than 0.5 percent carbon and not less than 3.5 percent molybdenum, or not less than 0.5 percent carbon and not less than 5.5 percent tungsten:

4(a)(xiii) The term "*plate of the type described in U.S. note 4(a)(xiii) to this subchapter*" refers to products which are flat rolled, whether or not corrugated or crimped, 4.7625mm or more in thickness and over 30.32cm in width when hot rolled or over 30.48cm in width when cold rolled:

4(a)(xiv) The term "*sheet of the type described in U.S. note 4(a)(xiv) to this subchapter*" refers to products which are flat rolled, whether or not corrugated or crimped, less than 4.7625mm in thickness and over 30.48cm in width:

4(a)(xv) The term "*strip of the type described in U.S. note 4(a)(xv) to this subchapter*" refers to products which are flat rolled, whether or not corrugated or crimped, less than 4.7625mm in thickness, not over 30.48cm in width and, if cold rolled, over 1.27cm in width:

4(a)(xvi) The term "*wire of the type described in U.S. note 4(a)(xvi) to this subchapter*" refers to products which are either cold drawn, in coils, of any cross-sectional configuration and not over 17.862mm in maximum cross-sectional dimension; or in coils with a cold rolled finish, of solid rectangular cross section, not over 6.35mm in thickness and not over 1.27cm in width.

4(a)(xvii) The term "*wire rod of the type described in U.S. note 4(a)(xvii) to this subchapter*" refers to products which are hot rolled, in coils, approximately round in cross section, and at least 5.08mm but not exceeding 18.796mm in diameter.

Replace the entire text of subheading 9803.72.00 with the following:

Flat rolled products and bars and rods which have been flat rolled, all the foregoing of stainless steel of the type described in U.S. note 4(a)(ix) to this subchapter, under 4.7625mm in thickness and, if cold rolled, over 1.27mm in width (except when: over 30.48cm in width and coated, plated or clad with metal; 30.48cm or under in width and electrolytically coated or plated with base metal other than tin, lead or zinc; cut, pressed or stamped to nonrectangular shape; worked after rolling other than by corrugation or crimping; as provided for in U.S. note 4(a)(ii) to this subchapter; razor blade steel of the type described in U.S. note 4(a)(ii) to this subchapter; cladding grade 434 stainless steel; flat-rolled products over 30.48cm in width; cold-rolled flat-rolled products of stainless steel over 180.34cm in width; stainless steel of the type described in U.S. note 4(a)(iv);

this subchapter; and flapper valve steel) provided for in subheading 7219.12, 7219.13, 7219.14, 7219.22, 7219.23, 7219.24, 7219.31, 7219.32, 7219.33, 7219.34, 7219.35, 7219.90, 7220.11, 7220.12.10, 7220.12.50, 7220.20.10, 7220.20.60, 7220.20.70, 7220.20.90, 7220.90, 7222.10, 7222.20, 7222.30 or 7223.00.50, all the foregoing, whether or not entitled to duty-free treatment under subheading 9808.00.30 * * *

Replace the entire text of subheading 9903.72.01 with the following:

Flat-rolled products and bars and rods which have been flat-rolled, all the foregoing of stainless steel of the type described in U.S. note 4(a)(ix) to this subchapter, 4.7625mm or more in thickness, over 20.32cm in width if hot rolled or over 30.48cm in width if cold

rolled (except if: coated, plated or clad with metal; cut, pressed or stamped to nonrectangular shape; worked after rolling other than by corrugation or crimping; as provided for in U.S. note 4(g)(i) to this subchapter; and stainless steel of the type described in U.S. note 4(a)(v) to this subchapter) provided for in subheading 7219.11, 7219.12, 7219.21, 7219.22, 7219.31, 7219.90, 7220.11, 7220.20.10, 7220.90, 7222.10, 7220.20 or 7222.30, all the foregoing, whether or not entitled to duty-free treatment under subheading 9808.00.30 * * *

Replace the entire text of the superior heading, at the first indentation, to subheadings 9903.72.10, 9903.72.12 and 9903.72.14 with the following:

Bars and rods, flat-rolled products and wire, all the foregoing of stainless steel of the type described in U.S. note 4(a)(ix) to this subchapter (except if: worked after rolling other than by corrugation or crimping; plate, sheet, strip, wire and wire rod of the type described in U.S. notes 4(a)(xiii), 4(a)(xiv), 4(a)(xv), 4(a)(xvi) and 4(a)(xvii), respectively, to this subchapter; concrete reinforcing bars and rods; and stainless steel of the type described in U.S. note 4(a)(v) to this subchapter) provided for in subheading 7220.11, 7220.20.10, 7220.20.60, 7220.90, 7221.00, 7220.10, 7222.20, 7222.30, 7223.00.10, 7223.00.50 or 7223.00.90:

Replace all quota quantities for subheadings 9903.72.10, 9903.72.12, and 9903.72.14 with the following:

Item	Articles	Quota Quantity (in kilograms)	
		If entered during the restraint period:	
		July 20 through January 19	January 20 through July 19
9903.72.10	If entered during the period from October 20, 1987, through July 19, 1988 inclusive:		
	Austria.....	n/a	97,977
	Canada.....	250,388	501,678
	Japan.....	3,213,281	6,427,470
	Korea.....	439,969	880,885
	Mexico.....	25,401	51,710
	Spain.....	997,913	1,995,827
	Sweden.....	308,446	616,892
	Taiwan.....	22,680	45,360
	Other, except as provided in U.S. note 4(g)(ii) to this subchapter.....	99,791	97,070
9903.72.12	If entered during the period from July 20, 1988, through July 19, 1989 inclusive:		
	Austria.....	97,070	97,977
	Canada.....	512,565	512,565
	Japan.....	6,572,621	6,572,621
	Korea.....	891,772	892,679
	Mexico.....	58,060	58,968
	Spain.....	2,041,187	2,041,187
	Sweden.....	630,500	631,407
	Taiwan.....	48,267	47,174
	Other, except as provided in U.S. note 4(g)(ii) to this subchapter.....	107,958	104,327
9903.72.14	If entered during the period from July 20, 1989, through September 30, 1989 inclusive:		
	Austria.....	39,009	(*)
	Canada.....	211,376	(*)
	Japan.....	2,707,974	(*)
	Korea.....	367,414	(*)
	Mexico.....	24,484	(*)
	Spain.....	840,969	(*)
	Sweden.....	259,457	(*)
	Taiwan.....	19,051	(*)
	Other, except as provided in U.S. note 4(g)(ii) to this subchapter.....	44,453	(*)

Replace the entire text of the superior heading, at the first indentation, to subheadings 9903.72.20, 9903.72.22 and 9903.72.24 with the following:

Bars and rods of stainless steel of the type described in U.S. note 4(a) (ix) to this subchapter, approximately round in cross-section, at least 5.08mm but not exceeding 18.798mm in diameter (except concrete reinforcing bars and rods and stainless steel

of the type described in U.S. note 4(a)(v) to this subchapter) provided for in subheading 7221.00:

Replace all quota quantities for subheadings 9903.72.20, 9903.72.22, and 9903.72.24 with the following:

Item	Articles	Quota Quantity (in kilograms)	
		If entered during the restraint period:	
		July 20 through January 19	January 20 through July 19
9903.72.20	If entered during the period from October 20, 1987, through July 19, 1988 inclusive:		
	Austria.....	n/a	25,401
	Japan.....	* 1,439,717	2,879,434
	Korea.....	* 238,592	476,277
	Spain.....	* 421,845	844,598
	Sweden.....	* 899,936	1,799,873
	Other, except as provided in U.S. note 4(g)(ii) to this subchapter.....	* 87,998	151,501
9903.72.22	If entered during the period from July 20, 1988, through July 19, 1989 inclusive:		
	Austria.....	48,988	25,401
	Japan.....	2,944,752	2,944,752
	Korea.....	489,885	490,792
	Spain.....	862,742	863,649
	Sweden.....	1,840,697	1,840,697
	Other, except as provided in U.S. note 4(g)(ii) to this subchapter.....	129,729	151,501
9903.72.24	If entered during the period from July 20, 1989, through September 30, 1989 inclusive:		
	Austria.....	9,979	(*)
	Japan.....	1,212,918	(*)
	Korea.....	355,620	(*)
	Spain.....	355,620	(*)
	Sweden.....	758,414	(*)
	Other, except as provided in U.S. note 4(g) (ii) to this subchapter.....	63,504	(*)

Replace the entire text of the superior heading, at the first indentation, to subheadings 9903.72.30, 9903.72.32 and 9903.72.34 with the following:

Flat-rolled products, bars and rods and wire, all the foregoing of tool steel of the type described in U.S. note 4(a)(xi) to this subchapter (except if: worked after rolling other than by corrugation or crimping; plate of the type described in U.S. note 4(a)(xiii) to this subchapter which has been coated, plated or clad with metal or cut, pressed or stamped to nonrectangular shape; sheet of the type described in U.S. note 4(a)(xiv) to this subchapter which has been coated, plated or clad with metal or cut, pressed or stamped to nonrectangular shape; strip of the type described in U.S. note 4(a)(xv) to this subchapter which has been coated or plated with base metal other than tin, lead or zinc or cut, pressed or stamped to nonrectangular shape; concrete reinforcing bars and rods; wire of the type described in U.S. note 4(a)(xvi) to this subchapter other than round wire of high speed tool steel as described in

U.S. note 4(a)(xii) to this subchapter; chipper knife steel; band saw steel; ball bearing steel; rotor steel for hysteresis motors; and tool steel of the type described in U.S. note 4(a)(viii) to this subchapter) provided for in subheading 7208.11, 7208.12, 7208.13.10, 7208.13.50, 7208.14.10, 7208.14.50, 7208.21.10, 7208.21.50, 7208.22.10, 7208.22.50, 7208.23.10, 7208.23.50, 7208.24.10, 7208.24.50, 7208.31, 7208.32, 7208.33.10, 7208.33.50, 7208.34.10, 7208.34.50, 7208.35.10, 7208.35.50, 7208.41, 7208.42, 7208.43, 7208.44, 7208.45, 7208.90, 7209.11, 7209.12, 7209.13, 7209.14, 7209.21, 7209.22, 7209.23, 7209.24.50, 7209.31, 7209.32, 7209.33, 7209.34, 7209.41, 7209.42, 7209.43, 7209.44, 7209.90, 7210.70.30, 7210.90.90, 7211.11, 7211.12, 7211.19.10, 7211.19.50, 7211.21, 7211.22, 7211.29.10, 7211.29.30, 7211.29.50, 7211.29.70, 7211.30.10, 7211.30.30, 7211.30.50, 7211.49.10, 7211.49.30, 7211.49.50, 7211.90, 7212.10, 7212.21, 7212.29, 7212.30.10, 7212.30.30, 7212.30.50, 7212.40.10, 7212.40.50, 7212.50, 7212.60, 7213.20, 7213.41.30, 7213.41.60, 7213.49, 7213.50, 7214.10, 7214.30, 7214.50, 7214.60, 7215.10, 7215.30, 7215.40, 7215.90.10, 7215.90.30, 7215.90.50, 7217.21.10,

7217.21.30, 7217.21.50, 7217.22.10, 7117.22.50, 7217.23.10, 7217.23.50, 7217.29.10, 7217.29.50, 7217.31.10, 7217.31.30, 7217.31.50, 7217.32.10, 7217.32.50, 7217.33.10, 7217.33.50, 7217.39.10, 7217.39.50, 7219.11, 7219.12, 7219.13, 7219.14, 7219.21, 7219.22, 7219.23, 7219.24, 7219.31, 7219.32, 7219.33, 7219.34, 7219.35, 7219.90, 7220.11, 7220.12.10, 7220.12.50, 7220.20.10, 7220.20.60, 7220.20.70, 7220.20.80, 7220.20.90, 7220.90, 7221.00, 7222.10, 7222.20, 7222.30, 7223.00.10, 7223.00.50, 7223.00.90, 7225.20, 7225.30.10, 7225.30.30, 7225.30.50, 7225.30.70, 7225.40.10, 7225.40.30, 7225.40.50, 7225.40.70, 7225.50.10, 7225.50.60, 7225.50.70, 7225.50.80, 7225.90, 7226.20, 7226.91.10, 7226.91.30, 7226.91.50, 7226.91.70, 7226.91.80, 7226.92.10, 7226.92.30, 7226.92.50, 7226.92.70, 7226.92.80, 7226.99, 7227.10, 7227.90.10, 7227.90.20, 7227.90.60, 7228.10, 7228.30.60, 7228.30.80, 7228.40, 7228.50.10, 7228.50.50, 7228.60.10, 7228.60.80, 7228.60.90, 7229.10, 7229.90.10, 7229.90.50, 7229.90.90:

Change all quota quantities for subheadings 9903.72.30, 9903.72.32, and 9903.72.34 to the following:

Item	Articles	Quota Quantity (in kilograms)	
		If entered during the restraint period:	
		July 20 through January 19	January 20 through July 19
9903.72.30	If entered during the period from October 20, 1987, through July 19, 1988 inclusive:		
	Canada	380,156	719,405
	Japan	1,048,716	2,098,340
	Korea	345,641	691,282
	Mexico	58,060	117,935
	Poland	77,111	155,130
	Spain	40,824	83,462
	Sweden	1,979,497	3,958,995
9903.72.32	Other, except as provided in U.S. note 4(g)(ii) to this subchapter	76,204	147,873
	If entered during the period from July 20, 1988, through July 19, 1989 inclusive:		
	Canada	735,734	736,642
	Japan	2,144,607	2,145,514
	Korea	713,055	712,147
	Mexico	126,100	126,100
	Poland	151,501	152,409
	Spain	85,276	85,276
9903.72.34	Sweden	4,048,807	4,048,807
	Other, except as provided in U.S. note 4(g)(ii) to this subchapter	148,780	147,873
	If entered during the period from July 20, 1989, through September 30, 1989 inclusive:		
	Canada	303,003	(¹)
	Japan	883,607	(²)
	Korea	233,931	(²)
	Mexico	51,710	(²)
	Poland	62,596	(²)
	Spain	35,381	(²)
	Sweden	1,667,423	(²)
	Other, except as provided in U.S. note 4(g)(ii) to this subchapter	61,689	(²)

Change all quota quantities for subheadings 9903.72.40, 9903.72.42, and 9903.72.44 to the following:

Item	Articles	Quota Quantity (in kilograms)	
		If entered during the restraint period:	
		July 20 through January 19	January 20 through July 19
9903.72.40	If entered during the period from November 20, 1987, through July 19, 1988 inclusive:		
	Canada	997,913	1,995,827
9903.72.42	If entered during the period from July 20, 1988, through July 19, 1989 inclusive:		
	Canada	1,995,827	1,995,827
9903.72.44	If entered during the period from July 20, 1989, through September 30, 1989 inclusive:		
	Canada	798,331	(¹)

