

**ANNUAL SURVEY CONCERNING  
COMPETITIVE CONDITIONS IN  
THE STEEL INDUSTRY AND  
INDUSTRY EFFORTS TO  
ADJUST AND  
MODERNIZE**

**Report to the President on  
Investigation No. 332-209  
Under Section 332 of the  
Tariff Act of 1930**



**USITC PUBLICATION 1729**

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# UNITED STATES INTERNATIONAL TRADE COMMISSION

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Note.—The whole of the Commission's report to the President may not be made public since it contains certain information that has been classified by the United States Trade Representative or would result in the disclosure of the operations of individual concerns. This published report is the same as the report to the President, except that the above-mentioned information has been omitted (as indicated by asterisks) or combined with data from related product categories to ensure confidentiality.



## PREFACE

On March 8, 1985, the United States International Trade Commission instituted investigation No. 332-209, Annual Surveys Concerning Competitive Conditions in the Steel Industry and Industry Efforts to Adjust and Modernize. The investigation, conducted under section 332(g) of the Tariff Act of 1930 (19 U.S.C. 1332(g)), is in response to a request from the United States Trade Representative, at the direction of the President (app. A).

This report is the first in a 5-year annual series that reports on competitive conditions in the steel industry and industry efforts to adjust and modernize. This initial survey covers the July 1, 1984-June 30, 1985 period; future reports will compare this data with data collected during future reporting periods. It also provides certain information for the twelve-month period ending September 30, 1985 on: (1) the extent to which the major companies of the industry have committed, or will have committed, their net cash flow from steel product operations for purposes of reinvestment in, and modernization of, the steel industry; (2) actions taken by the major companies to maintain international competitiveness, and (3) the extent to which each of the major companies has committed, or will have committed, not less than one percent of net cash flow to the retraining of workers.

Notice of the investigation was given by posting copies of the notice of investigation at the Office of the Secretary, U.S. International Trade Commission, and by publication of the notice in the Federal Register of March 20, 1985 (app. B).

The Commission collected data and information from questionnaires sent to raw steel producers and selected importers of the carbon and alloy steel products subject to the investigation. Producers accounting for approximately 95 percent of U.S. raw steel production in 1983 and importers accounting for approximately 44 percent of imports of the subject products submitted data to the Commission.



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CONDITIONS AND ADJUSTMENT IN THE STEEL INDUSTRY

Industry Conditions

Highlights

Following is a tabulation which provides statistical highlights of the carbon steel industry (i.e., producers of carbon and certain alloy steel products), and certain segments of the specialty steel industry (i.e., producers of certain stainless and alloy tool steel products). 1/ The tabulation is based on information supplied by producers in response to Commission questionnaires and reflects data for the twelve month period ending June 30, 1985.

Item	: Carbon and certain : alloy steel 1/	: Certain stainless and : alloy tool steel 2/
Raw steel:		
Production-----1,000 tons-----:	80,078	1,733
Capacity-----do-----:	126,980	2,646
Capacity utilization-----percent-----:	63	67
Shipments <u>3/</u> -----1,000 tons-----:	61,192	1,094
Production and related workers:		
Average number-----:	214,077	13,169
Manhours-----1,000-----:	428,969	25,589
Wages-----do-----:	\$6,376,565	\$419,306
Financial:		
Net sales-----1,000-----:	\$27,517,333	\$2,083,806
Pre-tax profit or (loss)-----do-----:	(\$1,027,367)	\$83,049
Return on sales-----percent-----:	-3.7	4.0
Capital expenditures-----1,000-----:	\$2,399,508	\$132,007
Research and development expenditures-----do-----:	\$113,872	\$18,149

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

2/ Certain stainless and alloy tool steel refers to semifinished stainless and alloy tool steel products, stainless steel plates, stainless steel sheets and strip, stainless steel wire, and stainless steel pipes and tubes.

3/ Shipment figures are not directly comparable to raw steel production data, since a significant quantity of scrap is generated in processing raw steel into finished products. Moreover, shipment figures do not include certain cast products, and, in the case of specialty steel, bars, rods, and most alloy tool steel products.

1/ See app. C for a description of the products subject to the investigation.

### U.S. producers' capacity, production and capacity utilization

Carbon and certain alloy steel.—U.S. carbon and certain alloy raw steel production totaled 80.1 million tons, representing an overall capacity utilization rate of 63 percent during July 1, 1984–July 30, 1985 (table 1). Capacity utilization for basic oxygen furnaces was highest at 68 percent, followed by electric furnaces at 61 percent, and "other" furnaces (predominantly open hearth) at 43 percent. Of the steel produced, 42 percent was continuously cast, which represented 76 percent of continuous casting capability. On a product by product basis, capacity utilization rates were highest among cold rolled and further processed sheet and strip (75–79 percent), and lowest among pipe and tube products (25–43 percent).

Certain stainless and alloy tool steel.—U.S. stainless and alloy tool raw steel production amounted to 1.8 million tons during July 1, 1984–June 30, 1985, representing an overall capacity utilization rate of 67 percent (table 1). Highest capacity utilization rates were recorded among sheet and strip products (82 percent), while lowest rates were recorded in pipe and tube products (42 percent).

### U.S. producers' shipments, unfilled orders and inventories

Carbon and certain alloy steel.—U.S. producers' shipments of carbon and certain alloy steel totaled 61.2 million tons (\$28.2 billion) during July 1, 1984–June 30, 1985 (table 2). Sheet and strip (principally hot rolled) accounted for 56 percent of the shipments, followed by bar products (16 percent), and structural shapes and units (7 percent). Unfilled orders were 7.6 million tons as of June 30, 1985, which compares to inventories of 7.5 million tons. The highest ratio of inventories to unfilled orders occurred in wire (1.81), while the lowest ratio occurred in rails and related products (0.34).

Table 1.--Certain carbon and alloy steel: U.S. producers' capacity, changes in capacity, production, and capacity utilization, July 1, 1984 -- June 30, 1985

Item	Capacity	Changes in capacity 1/	Production	Capacity Utilization
	Short tons			Percent
Carbon and certain alloy steel: 2/				
Cokemaking facilities.....	31,749,400	***	23,418,398	74
Ironmaking facilities.....	74,379,500	***	46,370,344	62
Steelmaking facilities: 3/				
Electric furnace.....	40,026,078	4/	24,542,882	61
Basic oxygen furnace.....	72,513,024	4/	49,260,123	68
Other furnaces.....	14,441,000	4/	6,275,187	43
Total.....	126,980,102	***	80,078,192	63
Continuous casting.....	44,573,737	4/	33,996,532	76
Products:				
Plates.....	8,371,509	-	3,450,962	41
Sheets and strip:				
Hot rolled.....	59,298,792	***	38,958,983	66
Cold rolled.....	29,150,884	***	21,858,856	75
Galvanized.....	6,042,088	***	4,722,262	78
Other.....	8,236,372	***	6,534,731	79
Bars:				
Hot finished.....	13,486,215	***	6,739,535	50
Cold finished.....	***	***	***	***
Reinforcing.....	6,758,204	***	3,192,537	47
Wire rod.....	5,488,682	***	3,750,768	68
Wire.....	1,363,530	-	734,501	54
Wire products.....	845,257	***	440,709	52
Structural shapes and units....	8,595,112	***	4,649,383	54
Rails and related products.....	1,643,301	***	1,101,022	67
Pipes and tubes:				
Oil country tubular goods....	3,800,916	***	1,127,870	30
Line pipe.....	1,777,584	***	442,892	25
Other.....	3,135,800	***	1,362,979	43
Certain stainless and and alloy tool steel:				
Steelmaking facilities: 3/				
Electric furnace.....	***	4/	***	***
Basic oxygen furnace.....	***	4/	***	***
Other furnaces.....	***	4/	***	***
Total.....	2,645,984	***	1,773,367	67
Continuous casting.....	1,132,365	4/	1,053,692	93
Stainless steel products:				
Plates.....	203,900	-	144,957	71
Sheets and strip.....	977,854	***	804,751	82
Wire.....	74,450	***	49,121	66
Pipes and tubes.....	45,600	-	19,366	42

1/ Changes in practical annual capacity from July 1, 1983 -- June 30, 1984 to July 1, 1984 -- June 30, 1985.

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

3/ Including semifinished steel.

4/ Change in capacity not calculated.

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

Table 2.--Cert-in carbon and alloy steel: U.S. producers' shipments, unfilled orders, and inventories, and U.S. importers' imports, unfilled orders, and inventories, July 1, 1984 -- June 30, 1985

Product	U.S. Producers				U.S. Importers				Ratio of inventories to unfilled orders
	Shipments	Unfilled orders 1/	Inventories 2/	Ratio of inventories to unfilled orders	Imports	Unfilled orders 1/	Inventories 2/	Ratio of inventories to unfilled orders	
	Quantity (short tons)	Value (1,000 dollars)	Quantity (short tons)	Value (1,000 dollars)	Quantity (short tons)	Value (1,000 dollars)	Quantity (short tons)	Value (1,000 dollars)	
<b>Carbon and certain alloy steel: 2/</b>									
Semifinished.....	1,287,751	496,049	174,786	3/	725,725	197,957	102,447	***	***
Plates.....	3,446,342	1,604,349	353,857		770,798	293,723	104,928	58,171	0.55
<b>Sheets and strip:</b>									
Hot rolled.....	12,617,612	4,492,901	1,332,527	1,521,305	1,656,067	598,586	301,945	103,739	0.34
Cold rolled.....	10,792,752	5,253,801	1,603,250	1,453,283	1,630,073	799,070	288,964	166,784	0.58
Galvanized.....	4,153,326	2,542,075	983,182	600,487	1,435,561	853,872	221,737	{ 90,976	{ 0.34
Other.....	6,757,804	4,173,436	1,108,741	998,481	370,640	254,929	45,417		
Subtotal, sheets and strip.....	34,321,494	16,464,213	5,027,700	4,573,556	5,092,341	2,506,457	858,063	361,499	0.42
<b>Bars:</b>									
Hot finished.....	{ 6,894,430	2,670,055	782,212	{ 870,723	187,251	83,974	10,008	7,727	0.77
Cold finished.....	3,142,610	910,466	233,650	158,959	149,713	77,954	{ 28,835	15,282	{ 0.73
Reinforcing.....	10,037,040	3,954,636	1,086,643	1,329,682	459,531	190,337	38,843	28,816	0.74
Subtotal, bars.....	2,980,424	949,781	166,724	181,867	535,729	225,227	114,055	3,971	0.03
Wire rod.....	475,857	276,160	28,593	51,800	247,341	175,288	39,218	6,938	0.18
Wire.....	432,691	279,561	23,166	41,807	388,449	212,472	20,340	***	***
Structural shapes and units.....	4,370,517	1,502,250	319,656	535,309	1,122,716	408,436	218,985	55,425	0.25
Rails and related products.....	1,072,762	498,069	177,844	59,779	309,649	141,370	16,613	***	***
<b>Pipes and tubes:</b>									
Oil country tubular goods.....	1,122,308	970,794	112,845	243,780	631,312	453,508	119,965	207,571	1.73
Line pipe.....	415,817	229,776	{ 166,935	71,589	482,862	237,751	52,598	46,684	0.89
Other.....	1,229,261	963,310	174,589	174,589	758,916	377,008	132,244	51,734	0.39
Subtotal, pipes and tubes.....	2,767,386	2,163,880	279,780	489,958	1,873,090	1,068,267	304,807	305,989	1.00
<b>Total, carbon and certain alloy steel.....</b>	<b>61,192,263</b>	<b>28,188,948</b>	<b>7,640,719</b>	<b>7,496,807</b>	<b>11,525,369</b>	<b>5,419,534</b>	<b>1,818,299</b>	<b>856,635</b>	<b>0.47</b>
<b>Certain stainless and alloy tool steel:</b>									
Semifinished.....	79,344	219,146	40,233	3/	725	***	0	***	***
Stainless steel:									
Plates.....	147,917	331,108	14,066	34,988	4,732	***	1,468	***	***
Sheets and strip.....	799,285	1,392,168	116,859	166,075	74,387	134,169	33,770	***	***
Wire.....	47,277	149,547	4,160	13,749	2,024	7,159	469	1,269	2.71
Pipes and tubes.....	20,381	91,241	3,814	7,483	13,891	41,329	3,194	***	***
<b>Total, certain stainless and alloy tool steel.....</b>	<b>1,094,204</b>	<b>2,182,210</b>	<b>179,132</b>	<b>222,295</b>	<b>95,759</b>	<b>192,448</b>	<b>38,901</b>	<b>51,425</b>	<b>1.32</b>
<b>Grand total.....</b>	<b>62,286,467</b>	<b>30,371,158</b>	<b>7,819,851</b>	<b>7,719,102</b>	<b>11,621,128</b>	<b>5,611,982</b>	<b>1,857,200</b>	<b>908,060</b>	<b>0.49</b>

1/ As of June 30, 1985.  
 2/ Certain alloy refers to alloy steel other than stainless and alloy tool steel.  
 3/ Inventories of semifinished steel intended for sale are estimated by the ITC staff to be negligible.  
 Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission, except as noted.

Certain stainless and alloy tool steel.—U.S. producers' shipments of certain stainless and alloy tool steel reached 1.1 million tons (\$2.2 billion) during July 1, 1984–June 30, 1985 (table 2). Sheet and strip accounted for 73 percent of the shipments, followed by plate (14 percent), and wire (4 percent). Unfilled orders (principally sheet and strip) were 179,000 tons as of June 30, 1985, which compares to inventories of 222,000 tons. The highest ratio of inventories to unfilled orders occurred in wire (3.31), while the lowest ratio occurred in sheet and strip (1.42).

U.S. importers' imports, unfilled orders, and inventories

Carbon and certain alloy steel.—The U.S. importers who responded to the Commission's questionnaire reported imports of carbon and certain alloy steel products of 11.5 million tons (\$5.4 billion), during July 1, 1984–June 30, 1985. These imports are believed to represent approximately 44 percent of total imports during the period (table 2). Unfilled orders from the importers were 1.8 million tons as of June 30, 1985, which compared to inventories of 857,000 tons. The highest ratio of inventories to unfilled orders occurred in pipes and tubes (1.0), while the lowest ratio occurred in wire rod (0.03).

Certain stainless and alloy tool steel.—The U.S. importers who responded to the Commission's questionnaire reported imports of 96,000 tons of certain stainless and alloy tool steel products (\$192 million) during July 1, 1984–June 30, 1985, which represented approximately 48 percent of total imports (table 2). Unfilled orders were 39,000 tons as of June 30, 1985, which compares to inventories of 51,000 tons. The highest ratio of inventories to unfilled orders occurred in \* \* \*, while the lowest occurred in \* \* \*.

Employment of production and related workers

Carbon and certain alloy steel.—The average number of production and related workers employed in producing carbon and certain alloy steel was 214,000 during July 1, 1984–June 30, 1985. Employment levels were highest in the sheets and strip product areas, and in primary steelmaking (i.e., cokemaking, ironmaking, and semifinished steelmaking), which accounted for 40 percent and 33 percent of total employment, respectively (table 3). Unit labor costs ranged from \$12 per hour to \$16 per hour during the period, with the highest figures generally recorded in the sheets and strip product category. A comparison of man-hours worked in carbon and certain alloy steel production to quantity shipped shows approximately 7.0 hours of labor input for each ton shipped.

Certain stainless and alloy tool steel.—Production and related worker employment in the segments of the stainless and alloy tool steel industry covered in this investigation averaged 13,000 during July 1, 1984–June 30, 1985 (table 3). The highest employment levels were in the steelmaking (semifinished steel) and sheet and strip categories, which accounted for 43 percent and 38 percent, respectively, of total production employment. Unit labor costs ranged from \$13 per hour to \$16 per hour, with the highest costs generally occurring in the steelmaking and flat-rolled product categories.

U.S. producers' capital expenditures and research and development expenditures

Carbon and certain alloy steel.—Capital expenditures for carbon and certain alloy steel operations totaled \$2.4 billion during July 1, 1984–June 30, 1985 (table 4). The majority of these expenditures (about 82 percent) were for plant and equipment. Approximately 65 percent of expenditures for plant and equipment were for facilities placed in service

Table 3.--Average number of production and related workers employed in U.S. establishments producing certain carbon and alloy steel and hours worked by, wages paid to, and productivity of such employees, July 1, 1984-June 30, 1985

Item	Average number employed	Man-hours (Thousands)	Productivity (man-hours per ton)	Wages (1,000 dollars)	Unit hourly labor costs
Carbon and certain alloy steel: 1/					
Cokemaking facilities.....	12,401	23,318	1.00	348,307	\$14.94
Ironmaking facilities.....	14,681	28,119	0.61	435,926	15.50
Steelmaking facilities 2/.....	43,316	84,517	1.06	1,277,156	15.11
Products:					
Plates.....	7,472	15,586	4.52	233,166	14.96
Sheets and strip:					
Hot rolled.....	38,472	77,252	1.98	1,216,759	15.75
Cold rolled.....	24,795	51,897	2.37	706,945	13.62
Galvanized.....	9,613	19,922	4.22	304,443	15.28
Other.....	13,340	27,516	4.21	421,449	15.32
Subtotal, sheets and strip.....	86,220	176,587	3/	2,649,596	15.00
Bars:					
Hot finished.....	17,072	33,822	4.68	499,141	14.76
Cold finished.....	2,953	5,870	1.84	73,173	12.47
Reinforcing.....					
Subtotal, bars.....	20,025	39,692	3/	572,314	14.42
Wire rod.....	2,519	4,820	1.28	71,438	14.82
Wire.....	1,895	3,610	4.92	49,860	13.81
Wire products.....	1,437	2,779	6.30	36,602	13.17
Structural shapes and units.....	7,174	15,887	3.42	219,724	13.83
Rails and related products.....	2,597	5,250	4.77	71,233	13.57
Pipes and tubes:					
Oil country tubular goods.....	4,779	9,895	8.77	138,819	14.03
Line pipe.....					
Other.....	9,561	18,909	10.47	272,424	14.41
Subtotal, pipes and tubes.....	14,340	28,804	3/	411,243	14.28
Total, carbon and certain alloy steel.....	214,077	428,969	3/	6,376,565	14.86
Certain stainless and alloy tool steel:					
Steelmaking facilities 2/.....	5,647	10,852	6.12	174,192	16.05
Stainless steel products:					
Plates.....	1,258	2,538	17.51	41,710	16.43
Sheets and strip.....	4,988	9,616	11.95	168,422	17.51
Wire.....	736	1,504	30.62	20,845	13.86
Pipes and tubes.....	540	1,079	55.72	14,137	13.10
Total, certain stainless and alloy tool steel..	13,169	25,589	3/	419,306	16.39
Grand total.....	227,246	454,558	3/	6,795,871	14.95

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

2/ Including semifinished steel.

3/ Not applicable.

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

Table 4.--Certain carbon and alloy steel: U.S. producers' capital expenditures, by types of expenditures, and research and development expenditures, July 1, 1984 - June 30, 1985

(In thousands of dollars)

Item	Capital expenditures										Research and development expenditures																																																																																																																																																																																																																																																																																																																																																																							
	Land and land improvement	For new facilities	Placed in service Jan 1, 1980 - June 30, 1984	Placed in service prior to Jan 1, 1980	Total	For pollution control or occupational safety and health	Other	Total 1/	Research and development expenditures																																																																																																																																																																																																																																																																																																																																																																									
Carbon and certain alloy steels 2/											Coke-making facilities.....	4/	4/	4/	4/	4/	4/	4/	82,816	7,883	Ironmaking facilities.....	4/	4/	4/	4/	4/	4/	4/	167,159	5,956	Steelmaking facilities 3/.....	000	000	000	000	000	000	000	1,126,645	22,221	Products										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	63,621	4,841	Hot rolled.....	000	000	000	000	000	000	000	65,251	000	Cold rolled.....	000	000	000	000	000	000	000	18,106	4,128	Galvanized.....	000	000	000	000	000	000	000	94,277	000	Other.....	000	000	000	000	000	000	000	231,255	51,033	Subtotal, sheets and strip.....	000	000	000	000	000	000	000	273,466	000	Bars:										Hot finished.....	000	000	000	000	000	000	000	58,797	000	Cold finished.....	000	000	000	000	000	000	000	332,243	8,147	Reinforcing.....	000	000	000	000	000	000	000	000	000	Subtotal, bars.....	000	000	000	000	000	000	000	171,924	7,946	Wire rod.....	000	000	000	000	000	000	000	000	1,014	Wire.....	000	000	000	000	000	000	000	000	000	Wire products.....	000	000	000	000	000	000	000	000	000	Structural shapes and units.....	000	000	000	000	000	000	000	143,426	000	Rails and related products.....	000	000	000	000	000	000	000	000	000	Pipes and tubes:										Oil country tubular goods.....	000	000	000	000	000	000	000	000	000	Line pipe.....	000	000	000	000	000	000	000	000	000	Other.....	000	000	000	000	000	000	000	000	000	Subtotal, pipes and tubes.....	000	000	000	000	000	000	000	000	000	Total, carbon and certain alloy steel.....	6,874	696,212	399,111	868,927	1,966,250	58,781	12,712	2,399,508	113,872	Certain stainless and alloy tool steel:										Steelmaking facilities 3/.....	000	000	000	000	000	000	000	51,567	000	Stainless steel products:										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	36,048	000	Wire.....	000	000	000	000	000	000	000	000	000	Pipes and tubes.....	000	000	000	000	000	000	000	21,859	000	Subtotal, certain stainless and alloy tool steel.....	496	27,071	21,880	67,413	116,364	2,051	197	132,007	18,149	Grand total.....	7,370	723,283	420,991	936,340	2,080,614	60,832	12,909	2,531,515	132,021
Coke-making facilities.....	4/	4/	4/	4/	4/	4/	4/	82,816	7,883	Ironmaking facilities.....	4/	4/	4/	4/	4/	4/	4/	167,159	5,956	Steelmaking facilities 3/.....	000	000	000	000	000	000	000	1,126,645	22,221	Products										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	63,621	4,841	Hot rolled.....	000	000	000	000	000	000	000	65,251	000	Cold rolled.....	000	000	000	000	000	000	000	18,106	4,128	Galvanized.....	000	000	000	000	000	000	000	94,277	000	Other.....	000	000	000	000	000	000	000	231,255	51,033	Subtotal, sheets and strip.....	000	000	000	000	000	000	000	273,466	000	Bars:										Hot finished.....	000	000	000	000	000	000	000	58,797	000	Cold finished.....	000	000	000	000	000	000	000	332,243	8,147	Reinforcing.....	000	000	000	000	000	000	000	000	000	Subtotal, bars.....	000	000	000	000	000	000	000	171,924	7,946	Wire rod.....	000	000	000	000	000	000	000	000	1,014	Wire.....	000	000	000	000	000	000	000	000	000	Wire products.....	000	000	000	000	000	000	000	000	000	Structural shapes and units.....	000	000	000	000	000	000	000	143,426	000	Rails and related products.....	000	000	000	000	000	000	000	000	000	Pipes and tubes:										Oil country tubular goods.....	000	000	000	000	000	000	000	000	000	Line pipe.....	000	000	000	000	000	000	000	000	000	Other.....	000	000	000	000	000	000	000	000	000	Subtotal, pipes and tubes.....	000	000	000	000	000	000	000	000	000	Total, carbon and certain alloy steel.....	6,874	696,212	399,111	868,927	1,966,250	58,781	12,712	2,399,508	113,872	Certain stainless and alloy tool steel:										Steelmaking facilities 3/.....	000	000	000	000	000	000	000	51,567	000	Stainless steel products:										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	36,048	000	Wire.....	000	000	000	000	000	000	000	000	000	Pipes and tubes.....	000	000	000	000	000	000	000	21,859	000	Subtotal, certain stainless and alloy tool steel.....	496	27,071	21,880	67,413	116,364	2,051	197	132,007	18,149	Grand total.....	7,370	723,283	420,991	936,340	2,080,614	60,832	12,909	2,531,515	132,021											
Ironmaking facilities.....	4/	4/	4/	4/	4/	4/	4/	167,159	5,956	Steelmaking facilities 3/.....	000	000	000	000	000	000	000	1,126,645	22,221	Products										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	63,621	4,841	Hot rolled.....	000	000	000	000	000	000	000	65,251	000	Cold rolled.....	000	000	000	000	000	000	000	18,106	4,128	Galvanized.....	000	000	000	000	000	000	000	94,277	000	Other.....	000	000	000	000	000	000	000	231,255	51,033	Subtotal, sheets and strip.....	000	000	000	000	000	000	000	273,466	000	Bars:										Hot finished.....	000	000	000	000	000	000	000	58,797	000	Cold finished.....	000	000	000	000	000	000	000	332,243	8,147	Reinforcing.....	000	000	000	000	000	000	000	000	000	Subtotal, bars.....	000	000	000	000	000	000	000	171,924	7,946	Wire rod.....	000	000	000	000	000	000	000	000	1,014	Wire.....	000	000	000	000	000	000	000	000	000	Wire products.....	000	000	000	000	000	000	000	000	000	Structural shapes and units.....	000	000	000	000	000	000	000	143,426	000	Rails and related products.....	000	000	000	000	000	000	000	000	000	Pipes and tubes:										Oil country tubular goods.....	000	000	000	000	000	000	000	000	000	Line pipe.....	000	000	000	000	000	000	000	000	000	Other.....	000	000	000	000	000	000	000	000	000	Subtotal, pipes and tubes.....	000	000	000	000	000	000	000	000	000	Total, carbon and certain alloy steel.....	6,874	696,212	399,111	868,927	1,966,250	58,781	12,712	2,399,508	113,872	Certain stainless and alloy tool steel:										Steelmaking facilities 3/.....	000	000	000	000	000	000	000	51,567	000	Stainless steel products:										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	36,048	000	Wire.....	000	000	000	000	000	000	000	000	000	Pipes and tubes.....	000	000	000	000	000	000	000	21,859	000	Subtotal, certain stainless and alloy tool steel.....	496	27,071	21,880	67,413	116,364	2,051	197	132,007	18,149	Grand total.....	7,370	723,283	420,991	936,340	2,080,614	60,832	12,909	2,531,515	132,021																					
Steelmaking facilities 3/.....	000	000	000	000	000	000	000	1,126,645	22,221	Products										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	63,621	4,841	Hot rolled.....	000	000	000	000	000	000	000	65,251	000	Cold rolled.....	000	000	000	000	000	000	000	18,106	4,128	Galvanized.....	000	000	000	000	000	000	000	94,277	000	Other.....	000	000	000	000	000	000	000	231,255	51,033	Subtotal, sheets and strip.....	000	000	000	000	000	000	000	273,466	000	Bars:										Hot finished.....	000	000	000	000	000	000	000	58,797	000	Cold finished.....	000	000	000	000	000	000	000	332,243	8,147	Reinforcing.....	000	000	000	000	000	000	000	000	000	Subtotal, bars.....	000	000	000	000	000	000	000	171,924	7,946	Wire rod.....	000	000	000	000	000	000	000	000	1,014	Wire.....	000	000	000	000	000	000	000	000	000	Wire products.....	000	000	000	000	000	000	000	000	000	Structural shapes and units.....	000	000	000	000	000	000	000	143,426	000	Rails and related products.....	000	000	000	000	000	000	000	000	000	Pipes and tubes:										Oil country tubular goods.....	000	000	000	000	000	000	000	000	000	Line pipe.....	000	000	000	000	000	000	000	000	000	Other.....	000	000	000	000	000	000	000	000	000	Subtotal, pipes and tubes.....	000	000	000	000	000	000	000	000	000	Total, carbon and certain alloy steel.....	6,874	696,212	399,111	868,927	1,966,250	58,781	12,712	2,399,508	113,872	Certain stainless and alloy tool steel:										Steelmaking facilities 3/.....	000	000	000	000	000	000	000	51,567	000	Stainless steel products:										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	36,048	000	Wire.....	000	000	000	000	000	000	000	000	000	Pipes and tubes.....	000	000	000	000	000	000	000	21,859	000	Subtotal, certain stainless and alloy tool steel.....	496	27,071	21,880	67,413	116,364	2,051	197	132,007	18,149	Grand total.....	7,370	723,283	420,991	936,340	2,080,614	60,832	12,909	2,531,515	132,021																															
Products										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	63,621	4,841	Hot rolled.....	000	000	000	000	000	000	000	65,251	000	Cold rolled.....	000	000	000	000	000	000	000	18,106	4,128	Galvanized.....	000	000	000	000	000	000	000	94,277	000	Other.....	000	000	000	000	000	000	000	231,255	51,033	Subtotal, sheets and strip.....	000	000	000	000	000	000	000	273,466	000	Bars:										Hot finished.....	000	000	000	000	000	000	000	58,797	000	Cold finished.....	000	000	000	000	000	000	000	332,243	8,147	Reinforcing.....	000	000	000	000	000	000	000	000	000	Subtotal, bars.....	000	000	000	000	000	000	000	171,924	7,946	Wire rod.....	000	000	000	000	000	000	000	000	1,014	Wire.....	000	000	000	000	000	000	000	000	000	Wire products.....	000	000	000	000	000	000	000	000	000	Structural shapes and units.....	000	000	000	000	000	000	000	143,426	000	Rails and related products.....	000	000	000	000	000	000	000	000	000	Pipes and tubes:										Oil country tubular goods.....	000	000	000	000	000	000	000	000	000	Line pipe.....	000	000	000	000	000	000	000	000	000	Other.....	000	000	000	000	000	000	000	000	000	Subtotal, pipes and tubes.....	000	000	000	000	000	000	000	000	000	Total, carbon and certain alloy steel.....	6,874	696,212	399,111	868,927	1,966,250	58,781	12,712	2,399,508	113,872	Certain stainless and alloy tool steel:										Steelmaking facilities 3/.....	000	000	000	000	000	000	000	51,567	000	Stainless steel products:										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	36,048	000	Wire.....	000	000	000	000	000	000	000	000	000	Pipes and tubes.....	000	000	000	000	000	000	000	21,859	000	Subtotal, certain stainless and alloy tool steel.....	496	27,071	21,880	67,413	116,364	2,051	197	132,007	18,149	Grand total.....	7,370	723,283	420,991	936,340	2,080,614	60,832	12,909	2,531,515	132,021																																									
Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	63,621	4,841	Hot rolled.....	000	000	000	000	000	000	000	65,251	000	Cold rolled.....	000	000	000	000	000	000	000	18,106	4,128	Galvanized.....	000	000	000	000	000	000	000	94,277	000	Other.....	000	000	000	000	000	000	000	231,255	51,033	Subtotal, sheets and strip.....	000	000	000	000	000	000	000	273,466	000	Bars:										Hot finished.....	000	000	000	000	000	000	000	58,797	000	Cold finished.....	000	000	000	000	000	000	000	332,243	8,147	Reinforcing.....	000	000	000	000	000	000	000	000	000	Subtotal, bars.....	000	000	000	000	000	000	000	171,924	7,946	Wire rod.....	000	000	000	000	000	000	000	000	1,014	Wire.....	000	000	000	000	000	000	000	000	000	Wire products.....	000	000	000	000	000	000	000	000	000	Structural shapes and units.....	000	000	000	000	000	000	000	143,426	000	Rails and related products.....	000	000	000	000	000	000	000	000	000	Pipes and tubes:										Oil country tubular goods.....	000	000	000	000	000	000	000	000	000	Line pipe.....	000	000	000	000	000	000	000	000	000	Other.....	000	000	000	000	000	000	000	000	000	Subtotal, pipes and tubes.....	000	000	000	000	000	000	000	000	000	Total, carbon and certain alloy steel.....	6,874	696,212	399,111	868,927	1,966,250	58,781	12,712	2,399,508	113,872	Certain stainless and alloy tool steel:										Steelmaking facilities 3/.....	000	000	000	000	000	000	000	51,567	000	Stainless steel products:										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	36,048	000	Wire.....	000	000	000	000	000	000	000	000	000	Pipes and tubes.....	000	000	000	000	000	000	000	21,859	000	Subtotal, certain stainless and alloy tool steel.....	496	27,071	21,880	67,413	116,364	2,051	197	132,007	18,149	Grand total.....	7,370	723,283	420,991	936,340	2,080,614	60,832	12,909	2,531,515	132,021																																																			
Sheets and strip.....	000	000	000	000	000	000	000	63,621	4,841	Hot rolled.....	000	000	000	000	000	000	000	65,251	000	Cold rolled.....	000	000	000	000	000	000	000	18,106	4,128	Galvanized.....	000	000	000	000	000	000	000	94,277	000	Other.....	000	000	000	000	000	000	000	231,255	51,033	Subtotal, sheets and strip.....	000	000	000	000	000	000	000	273,466	000	Bars:										Hot finished.....	000	000	000	000	000	000	000	58,797	000	Cold finished.....	000	000	000	000	000	000	000	332,243	8,147	Reinforcing.....	000	000	000	000	000	000	000	000	000	Subtotal, bars.....	000	000	000	000	000	000	000	171,924	7,946	Wire rod.....	000	000	000	000	000	000	000	000	1,014	Wire.....	000	000	000	000	000	000	000	000	000	Wire products.....	000	000	000	000	000	000	000	000	000	Structural shapes and units.....	000	000	000	000	000	000	000	143,426	000	Rails and related products.....	000	000	000	000	000	000	000	000	000	Pipes and tubes:										Oil country tubular goods.....	000	000	000	000	000	000	000	000	000	Line pipe.....	000	000	000	000	000	000	000	000	000	Other.....	000	000	000	000	000	000	000	000	000	Subtotal, pipes and tubes.....	000	000	000	000	000	000	000	000	000	Total, carbon and certain alloy steel.....	6,874	696,212	399,111	868,927	1,966,250	58,781	12,712	2,399,508	113,872	Certain stainless and alloy tool steel:										Steelmaking facilities 3/.....	000	000	000	000	000	000	000	51,567	000	Stainless steel products:										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	36,048	000	Wire.....	000	000	000	000	000	000	000	000	000	Pipes and tubes.....	000	000	000	000	000	000	000	21,859	000	Subtotal, certain stainless and alloy tool steel.....	496	27,071	21,880	67,413	116,364	2,051	197	132,007	18,149	Grand total.....	7,370	723,283	420,991	936,340	2,080,614	60,832	12,909	2,531,515	132,021																																																													
Hot rolled.....	000	000	000	000	000	000	000	65,251	000	Cold rolled.....	000	000	000	000	000	000	000	18,106	4,128	Galvanized.....	000	000	000	000	000	000	000	94,277	000	Other.....	000	000	000	000	000	000	000	231,255	51,033	Subtotal, sheets and strip.....	000	000	000	000	000	000	000	273,466	000	Bars:										Hot finished.....	000	000	000	000	000	000	000	58,797	000	Cold finished.....	000	000	000	000	000	000	000	332,243	8,147	Reinforcing.....	000	000	000	000	000	000	000	000	000	Subtotal, bars.....	000	000	000	000	000	000	000	171,924	7,946	Wire rod.....	000	000	000	000	000	000	000	000	1,014	Wire.....	000	000	000	000	000	000	000	000	000	Wire products.....	000	000	000	000	000	000	000	000	000	Structural shapes and units.....	000	000	000	000	000	000	000	143,426	000	Rails and related products.....	000	000	000	000	000	000	000	000	000	Pipes and tubes:										Oil country tubular goods.....	000	000	000	000	000	000	000	000	000	Line pipe.....	000	000	000	000	000	000	000	000	000	Other.....	000	000	000	000	000	000	000	000	000	Subtotal, pipes and tubes.....	000	000	000	000	000	000	000	000	000	Total, carbon and certain alloy steel.....	6,874	696,212	399,111	868,927	1,966,250	58,781	12,712	2,399,508	113,872	Certain stainless and alloy tool steel:										Steelmaking facilities 3/.....	000	000	000	000	000	000	000	51,567	000	Stainless steel products:										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	36,048	000	Wire.....	000	000	000	000	000	000	000	000	000	Pipes and tubes.....	000	000	000	000	000	000	000	21,859	000	Subtotal, certain stainless and alloy tool steel.....	496	27,071	21,880	67,413	116,364	2,051	197	132,007	18,149	Grand total.....	7,370	723,283	420,991	936,340	2,080,614	60,832	12,909	2,531,515	132,021																																																																							
Cold rolled.....	000	000	000	000	000	000	000	18,106	4,128	Galvanized.....	000	000	000	000	000	000	000	94,277	000	Other.....	000	000	000	000	000	000	000	231,255	51,033	Subtotal, sheets and strip.....	000	000	000	000	000	000	000	273,466	000	Bars:										Hot finished.....	000	000	000	000	000	000	000	58,797	000	Cold finished.....	000	000	000	000	000	000	000	332,243	8,147	Reinforcing.....	000	000	000	000	000	000	000	000	000	Subtotal, bars.....	000	000	000	000	000	000	000	171,924	7,946	Wire rod.....	000	000	000	000	000	000	000	000	1,014	Wire.....	000	000	000	000	000	000	000	000	000	Wire products.....	000	000	000	000	000	000	000	000	000	Structural shapes and units.....	000	000	000	000	000	000	000	143,426	000	Rails and related products.....	000	000	000	000	000	000	000	000	000	Pipes and tubes:										Oil country tubular goods.....	000	000	000	000	000	000	000	000	000	Line pipe.....	000	000	000	000	000	000	000	000	000	Other.....	000	000	000	000	000	000	000	000	000	Subtotal, pipes and tubes.....	000	000	000	000	000	000	000	000	000	Total, carbon and certain alloy steel.....	6,874	696,212	399,111	868,927	1,966,250	58,781	12,712	2,399,508	113,872	Certain stainless and alloy tool steel:										Steelmaking facilities 3/.....	000	000	000	000	000	000	000	51,567	000	Stainless steel products:										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	36,048	000	Wire.....	000	000	000	000	000	000	000	000	000	Pipes and tubes.....	000	000	000	000	000	000	000	21,859	000	Subtotal, certain stainless and alloy tool steel.....	496	27,071	21,880	67,413	116,364	2,051	197	132,007	18,149	Grand total.....	7,370	723,283	420,991	936,340	2,080,614	60,832	12,909	2,531,515	132,021																																																																																	
Galvanized.....	000	000	000	000	000	000	000	94,277	000	Other.....	000	000	000	000	000	000	000	231,255	51,033	Subtotal, sheets and strip.....	000	000	000	000	000	000	000	273,466	000	Bars:										Hot finished.....	000	000	000	000	000	000	000	58,797	000	Cold finished.....	000	000	000	000	000	000	000	332,243	8,147	Reinforcing.....	000	000	000	000	000	000	000	000	000	Subtotal, bars.....	000	000	000	000	000	000	000	171,924	7,946	Wire rod.....	000	000	000	000	000	000	000	000	1,014	Wire.....	000	000	000	000	000	000	000	000	000	Wire products.....	000	000	000	000	000	000	000	000	000	Structural shapes and units.....	000	000	000	000	000	000	000	143,426	000	Rails and related products.....	000	000	000	000	000	000	000	000	000	Pipes and tubes:										Oil country tubular goods.....	000	000	000	000	000	000	000	000	000	Line pipe.....	000	000	000	000	000	000	000	000	000	Other.....	000	000	000	000	000	000	000	000	000	Subtotal, pipes and tubes.....	000	000	000	000	000	000	000	000	000	Total, carbon and certain alloy steel.....	6,874	696,212	399,111	868,927	1,966,250	58,781	12,712	2,399,508	113,872	Certain stainless and alloy tool steel:										Steelmaking facilities 3/.....	000	000	000	000	000	000	000	51,567	000	Stainless steel products:										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	36,048	000	Wire.....	000	000	000	000	000	000	000	000	000	Pipes and tubes.....	000	000	000	000	000	000	000	21,859	000	Subtotal, certain stainless and alloy tool steel.....	496	27,071	21,880	67,413	116,364	2,051	197	132,007	18,149	Grand total.....	7,370	723,283	420,991	936,340	2,080,614	60,832	12,909	2,531,515	132,021																																																																																											
Other.....	000	000	000	000	000	000	000	231,255	51,033	Subtotal, sheets and strip.....	000	000	000	000	000	000	000	273,466	000	Bars:										Hot finished.....	000	000	000	000	000	000	000	58,797	000	Cold finished.....	000	000	000	000	000	000	000	332,243	8,147	Reinforcing.....	000	000	000	000	000	000	000	000	000	Subtotal, bars.....	000	000	000	000	000	000	000	171,924	7,946	Wire rod.....	000	000	000	000	000	000	000	000	1,014	Wire.....	000	000	000	000	000	000	000	000	000	Wire products.....	000	000	000	000	000	000	000	000	000	Structural shapes and units.....	000	000	000	000	000	000	000	143,426	000	Rails and related products.....	000	000	000	000	000	000	000	000	000	Pipes and tubes:										Oil country tubular goods.....	000	000	000	000	000	000	000	000	000	Line pipe.....	000	000	000	000	000	000	000	000	000	Other.....	000	000	000	000	000	000	000	000	000	Subtotal, pipes and tubes.....	000	000	000	000	000	000	000	000	000	Total, carbon and certain alloy steel.....	6,874	696,212	399,111	868,927	1,966,250	58,781	12,712	2,399,508	113,872	Certain stainless and alloy tool steel:										Steelmaking facilities 3/.....	000	000	000	000	000	000	000	51,567	000	Stainless steel products:										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	36,048	000	Wire.....	000	000	000	000	000	000	000	000	000	Pipes and tubes.....	000	000	000	000	000	000	000	21,859	000	Subtotal, certain stainless and alloy tool steel.....	496	27,071	21,880	67,413	116,364	2,051	197	132,007	18,149	Grand total.....	7,370	723,283	420,991	936,340	2,080,614	60,832	12,909	2,531,515	132,021																																																																																																					
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Wire.....	000	000	000	000	000	000	000	000	000	Wire products.....	000	000	000	000	000	000	000	000	000	Structural shapes and units.....	000	000	000	000	000	000	000	143,426	000	Rails and related products.....	000	000	000	000	000	000	000	000	000	Pipes and tubes:										Oil country tubular goods.....	000	000	000	000	000	000	000	000	000	Line pipe.....	000	000	000	000	000	000	000	000	000	Other.....	000	000	000	000	000	000	000	000	000	Subtotal, pipes and tubes.....	000	000	000	000	000	000	000	000	000	Total, carbon and certain alloy steel.....	6,874	696,212	399,111	868,927	1,966,250	58,781	12,712	2,399,508	113,872	Certain stainless and alloy tool steel:										Steelmaking facilities 3/.....	000	000	000	000	000	000	000	51,567	000	Stainless steel products:										Plates.....	000	000	000	000	000	000	000	000	000	Sheets and strip.....	000	000	000	000	000	000	000	36,048	000	Wire.....	000	000	000	000	000	000	000	000	000	Pipes and tubes.....	000	000	000	000	000	000	000	21,859	000	Subtotal, certain stainless and alloy tool steel.....	496	27,071	21,880	67,413	116,364	2,051	197	132,007	18,149	Grand total.....	7,370	723,283	420,991	936,340	2,080,614	60,832	12,909	2,531,515	132,021																																																																																																																																																																																					
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1/ Including nonmetalized expenditures.

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

3/ Including semifinished steel.

4/ Data not compiled.

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

prior to July 1984, and the balance were for new facilities. Primary steelmaking (including ironmaking, cokemaking, and semifinished steelmaking facilities) accounted for the largest share of total capital expenditures during the period (57 percent) followed by bars (14 percent) and sheets and strip (10 percent).

Producers' research and development expenditures during July 1, 1984--June 30, 1985 amounted to \$114 million, almost half of which were for projects in the sheets and strip product area.

Certain stainless and alloy tool steel.---Total capital expenditures for the production of certain stainless and alloy tool steel products reached \$132 million during July 1, 1984--June 30, 1985 (table 4). Approximately 77 percent of expenditures for plant and equipment were for facilities placed in service prior to July 1984, and the remainder were for new facilities. Steelmaking facilities (i.e., semifinished steel) accounted for the largest share of total capital expenditures during the period (39 percent) followed by sheets and strip (27 percent). \* \* \* dominated spending for research and development, which totaled \$18 million during the period.

#### Financial experience of U.S. producers

Carbon and certain alloy steel.---Total net sales for all carbon and certain alloy steel products subject to the investigation amounted to \$27.5 billion, while the combined loss before taxes totaled \$1.0 billion during July 1, 1984--June 30, 1985 (table 5). Losses as a percentage of sales were greatest in pipes and tubes (17.7 percent) and least in sheet and strip (0.6 percent). A breakdown of financial data for the products subject to the investigation (including data on certain related products) is presented in table 6.

Table 5.--Certain carbon and alloy steel: Income-and-loss data from U.S. operations, by product, July 1, 1984 -- June 30, 1985

(In thousands of dollars)			
Item	Total net sales 1/	Net profit or (loss) before taxes 2/	Net profit or (loss) as a percentage of sales
Carbon and certain alloy steel: 3/			
Semifinished.....	287,905	(32,675)	(11.3)
Plates.....	1,619,920	(98,536)	(6.1)
Sheets and strip:			
Hot rolled.....	4,533,261	(282,053)	(6.2)
Cold rolled.....	5,270,168	(35,769)	(0.7)
Galvanized.....	3,118,414	106,822	3.4
Other.....	2,891,743	108,670	3.8
Subtotal, sheets and strip....	15,813,586	(102,330)	(0.6)
Bars:			
Hot finished.....	{2,931,635	{(216,615)	{(7.4)
Cold finished.....	{1,149,194	{(7,817)	{(0.7)
Reinforcing.....	1,149,194	(7,817)	(0.7)
Subtotal, bars.....	4,080,829	(224,432)	(5.5)
Wire rod.....	956,783	(24,642)	(2.6)
Wire.....	276,012	(25,148)	(9.1)
Wire products.....	278,576	(14,088)	(5.1)
Structural shapes and units.....	1,504,396	(106,314)	(7.1)
Rails and related products.....	496,831	(9,913)	(2.0)
Pipes and tubes:			
Oil country tubular goods.....	964,478	(187,672)	(19.5)
Line pipe.....	246,394	(15,388)	(6.2)
Other.....	991,624	(186,230)	(18.8)
Subtotal, pipes and tube.....	2,202,496	(389,290)	(17.7)
Total, carbon and certain alloy steel.....	27,517,333	(1,027,367)	(3.7)
Certain stainless and alloy tool steel:			
Semifinished.....	188,324	2,933	1.6
Stainless steel:			
Plates.....	325,438	143	.0
Sheets and strip.....	1,379,279	89,331	6.5
Wire.....	99,524	6,128	6.2
Pipes and tubes.....	91,241	(15,486)	(17.0)
Subtotal, certain stainless and alloy tool steel.....	2,083,806	83,049	4.0
Grand total.....	29,601,139	(944,318)	(3.2)

1/ Includes intracompany and intercompany transfers, less discounts, returns, and allowances.

2/ Net profit is defined as the total net sales, less the cost of goods sold, general, selling and administrative expenses, and other expenses (such as net interest expense (or income)).

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

Source: Compiled from data estimated in response to questionnaires of the U.S. International Trade Commission.

Table 6.—Certain carbon and alloy steel: Financial experience of U.S. producers,  
July 1, 1984–June 30, 1985

(In thousands of dollars)

Item	All carbon and certain alloy <u>1/</u> products subject to the investigation <u>2/</u>	All stainless and alloy tool steel products subject to the investigation <u>2/</u>	Total <u>2/</u>
NET SALES:			
Excluding intracompany and intercompany transfers—	24,515,155	2,079,177	26,594,332
Intracompany and intercompany transfers—	2,984,727	41,152	3,025,879
Total net sales <u>3/</u> —	30,929,152	2,120,329	33,049,481
COST OF GOODS SOLD (including intracompany and intercompany transfers):			
Raw materials—	10,152,771	516,791	10,669,562
Direct labor—	5,604,676	292,706	5,897,382
Other factory costs, including depreciation and amortization—	13,188,006	597,755	13,785,761
Total cost of goods sold <u>4/</u> —	30,316,608	1,829,981	32,146,589
GROSS PROFIT OR (LOSS)—	612,544	290,348	902,892
GENERAL, SELLING, AND ADMINI- STRATIVE EXPENSES—	1,267,364	160,690	1,428,054
NET OPERATING PROFIT OR (LOSS)—	(654,820)	129,658	(525,162)
OTHER INCOME OR (EXPENSE):			
Net interest income or (expense)—	(515,993)	(24,668)	(540,661)
All other income or (expense)—	99,046	(15,800)	83,246
Total other income or (expense) <u>5/</u> —	(417,050)	(40,468)	(457,518)
NET PROFIT OR (LOSS) BEFORE TAXES—	(1,071,870)	89,190	(982,680)
Depreciation and amortization—	1,319,288	49,708	1,368,996

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

2/ Certain respondents included financial information on related products.

3/ Including nonitemized sales.

4/ Including nonitemized costs.

5/ Including nonitemized expenses.

Source: Compiled from data submitted in response to questionnaires of the U.S.  
International Trade Commission.

Certain stainless and alloy tool steel.—Total net sales for certain stainless and alloy tool steel products amounted to \$2.1 billion, while net profit before taxes totaled \$83.0 million during July 1, 1984–June 30, 1985 (table 5). Profits as a percentage of sales were greatest in sheet and strip (6.5 percent), while pipes and tubes recorded a loss as a percentage of sales of 17 percent. A breakdown of financial data for the products subject to the investigation (including data on certain related products) is presented in table 6.

U.S. producers' prices and prices of imports

Carbon and certain alloy steel.—Surveys of the weighted average net prices for U.S. producers' and importers' three largest sales during July 1, 1984–June 30, 1985 reveal no overall price advantage for either U.S. producers or importers (table 7). 1/ \* \* \*. Price data reported by U.S. importers reveal numerous fluctuations among products, but no general price movements in either direction.

Certain stainless and alloy tool steel.—Comparisons of the weighted average net prices for U.S. producers' and importers' for three largest sales during the subject time period show that producers' prices \* \* \* (table 7). 2/ \* \* \*.

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1/ See app. E for a description of products.

2/ Ibid.

Table 7.--Certain carbon and alloy steel: Weighted average net prices for the three largest sales of U.S. producers and importers, 1/ by product, by specified period, July 1984 -- June 1985

Product 2/	(Per ton)											
	U.S. producers						U.S. importers					
	1984		1985		1984		1985		1984		1985	
	July-September	October-December	January-March	April-June	July-September	October-December	January-March	April-June	July-September	October-December	January-March	April-June
Carbon and certain alloy steel: 3/												
Semi-finished.....	\$356.14	***	\$392.95	\$380.68	\$223.07	***	***	***	371.92	***	377.75	***
Plates.....	***	***	***	***	360.80	***	***	***	***	***	***	369.31
Sheets and strip:												
Hot rolled.....	332.54	313.85	313.68	308.16	403.38	413.53	403.64	447.12	460.00	442.59	442.00	422.00
Cold rolled.....	478.95	488.08	462.39	450.23	442.00	460.00	442.59	422.00	603.45	621.70	621.70	525.18
Galvanized.....	***	***	***	***	616.01	***	***	***	595.26	***	***	594.35
Other.....	***	***	***	***	***	***	***	***	***	***	***	***
Bars:												
Hot finished.....	315.04	309.44	301.77	299.01	384.22	395.46	463.09	464.40	578.27	561.89	550.73	550.73
Cold finished.....	***	***	***	***	552.00	578.27	561.89	550.73	260.90	264.09	259.29	259.29
Reinforcing.....	279.96	287.01	281.88	282.69	262.13	260.90	264.09	259.29	302.81	300.13	254.92	254.92
Wire rod.....	297.08	288.69	282.28	273.82	302.81	***	***	***	***	***	***	***
Wire.....	***	***	***	***	***	***	***	***	***	***	***	***
Wire products.....	***	***	***	***	***	***	***	***	***	***	***	***
Structural shapes and units.....	***	***	***	***	373.13	378.48	389.37	371.14	459.59	480.45	***	***
Rails and related products.....	***	421.60	441.25	455.51	500.35	459.59	480.45	***	***	***	***	***
Pipes and tubes:												
Oil country tubular goods.....	***	***	***	***	495.05	516.85	***	572.71	***	***	***	***
Line pipe.....	***	478.99	459.10	***	***	416.20	410.98	***	491.53	***	***	***
Other.....	4/	***	4/	4/	506.21	***	***	***	***	***	***	***
Certain stainless and alloy tool steel:												
Semi-finished.....	***	1391.93	1416.86	1473.30	4/	4/	4/	4/	***	***	***	***
Stainless steel:												
Plates.....	***	***	***	***	***	1866.86	1753.46	1800.78	***	***	***	***
Sheets and strip.....	***	***	***	***	1725.27	***	***	***	***	***	***	***
Wire.....	***	3544.06	***	***	***	0.00	0.00	***	***	***	***	***
Pipes and tubes.....	3502.01	3199.61	3047.12	2989.95	2629.99	2644.76	2879.30	3373.01	***	***	***	***

1/ Prices are net of all discounts and allowances (including freight allowances) and excluding U.S. inland freight. Producers' prices are f.o.b. mill; importers' prices are f.o.b. warehouse, or, if shipped directly to customers, c.i.f., ex-dock, port of entry, duty paid. Prices represent the total industry value of reported sales divided by the total quantity sold, based on the 3 largest sales of each firm.

2/ See Appendix E for description of products.

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

4/ No data reported.

Source: Compiled from data submitted in response to questionnaires of the U.S. International Trade Commission.

### Actions to Adjust and Modernize, Other than Capital Expenditures

Of the 88 companies responding to the questionnaire, 43 firms provided information on actions that had been taken to adjust and modernize, other than capital expenditures and research and development expenditures. A tabulation showing the number of companies reporting various types of actions follows. <sup>1/</sup>

<u>Type of action</u>	<u>Number of companies</u>
Organizational changes -----	16
Divestitures and closures-----	10
Expansions and acquisitions -----	5
Cost reduction programs-----	15
Labor-related practices-----	23
Changes in company practices-----	19
Training/seminars -----	7
Other-----	17

Over half of the companies providing responses reported taking actions affecting labor, with the most predominant action being the reduction of both salaried and hourly personnel. Among other types of actions taken were reductions in crew sizes, revising work rules and combining job crafts, cutting employee benefits plans, and reducing salaries.

Slightly less than half of the firms providing responses reported on changes which had been made in company practices. Many reported implementation of management-labor participation teams and changes in the steelmaking production process (i.e. for cleaner steel and better quality steel). Additional company actions included elimination of certain product lines, implementing special customer service programs, cutting prices to

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<sup>1/</sup> See app. F for a company by company analysis of the actions taken by the responding firms.

compete directly with imports, and implementing statistical process control procedures to control quality.

Over one third of the companies providing responses reported on organizational changes and cost reduction programs implemented during the July 1, 1984-June 30, 1985 period. With respect to organizational changes, over half the companies reported actions affecting management personnel. Other types of organizational changes reported included mergers, decentralization or centralization of departments, and wholesale reorganizations of companies.

In the cost reduction area, the majority of respondents noted actions which had been taken to reduce energy costs by negotiating lower rates through the use of interruptable service, operating during off-peak hours when possible, and switching to less expensive energy inputs. Additionally, many of the companies responded that they had begun to contract with outside sources for maintenance, or other services, which previously had been performed by company personnel.

In other areas, a number of firms reported offering training in statistical process control techniques, with several indicating major efforts in this area. Joint ventures, leasing arrangements, and contracting of consultants for technical services were also mentioned as actions that had been taken by firms to assist in adjustment and modernization efforts.

Investments in Activities Other than Steel

Following is a company by company report on investments that were made by U.S. steel producers in activities other than steel that were considered part of each firm's efforts to adjust during July 1, 1984-June 30, 1985. 1/

\* \* \* \* \*

(Pages 16 and 17 contain information entitled to confidential treatment and have not been published.)

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1/ Based on information submitted in response to questionnaires of the U.S. International Trade Commission.

\* \* \* \* \*

CASH FLOW, CASH FLOW COMMITMENTS, 1/ AND ADJUSTMENT OF MAJOR COMPANIES

Net Cash Flow, Cash Flow Commitments, and Expenditures for the  
Retraining of Workers

\* \* \* \* \*

(Pages 17 to 27 contain information which is entitled to confidential treatment or material which has been classified by the United States Trade Representative, and have not been published.)

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1/ Cash flow commitments represent funds for steel-related expenditures (e.g., investment in plant and equipment, and retraining expenditures) and working capital commitments.

\* \* \* \* \*

Actions Taken to Maintain International Competitiveness

\* \* \* \* \*

(Pages 27 to 36 contain information which is entitled to confidential treatment or material which has been classified by the United States Trade Representative, and have not been published.)

\* \* \* \* \*

Appendix A

Copy of Letter to Chairwoman Paula Stern from Ambassador William E. Brock,  
United States Trade Representative, Requesting an Investigation

THE UNITED STATES TRADE REPRESENTATIVE  
 OFFICE OF THE CHAIRWOMAN  
 WASHINGTON  
 20506

February 85 FEB 12 1985

The Honorable Paula Stern  
 Chairwoman  
 United States International  
 Trade Commission  
 701 "E" Street, N.W.  
 Washington, D.C. 20436

Dear Madam Chairwoman:

On September 18, the President responded to the steel industry's petition for import relief under Section 201 of the Trade Act of 1974. A copy of his decision is enclosed. It was the President's concern that U.S. steel policy should promote the continued development of a free market environment in steel trade while maintaining maximum opportunities for the domestic steel industry to recover and modernize. In order to achieve this goal the President has directed me to coordinate his steel policy decision through the implementation of a nine point comprehensive policy.

To effectuate this policy, I request, at the direction of the President and pursuant to Section 332(g) of the Tariff Act of 1930, that the Commission monitor competitive conditions in the steel industry and the industry's efforts to adjust and modernize and to prepare annual reports on those efforts during the five year period beginning October 1, 1984. Also, inasmuch as certain specific information on these efforts will be required for the administration of the enforcement authority for the national policy for the steel industry, contained in title VIII of the Trade and Tariff Act of 1984 (the Act), I request the Commission to include in its annual reports, in addition to the basic categories of information listed in the attachment to this letter, the best information it can compile for the preceding 12-month period ending September 30 of each year on the following matters.

(A) The extent to which the major companies of the steel industry have, or will have committed their net cash flow from steel product operations for purposes of reinvestment in, and modernization of, that industry through investment in modern plant and equipment, research and development, and other appropriate projects, such as working capital for steel operations and programs for the retraining of workers;

(B) Actions taken by the major companies to maintain their international competitiveness, including action to produce price-

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 U.S. TRADE REPRESENTATIVE

competitive and quality-competitive products, to control costs of production, including employment costs, and to improve productivity; and

(C) Whether each of the major companies committed, or will have committed, not less than one percent of net cash flow to the retraining of workers.

If any major company did not commit at least one percent of its net cash flow to the retraining of workers, the Commission should report any unusual economic circumstances which contributed to the company's failure to do so.

For the purpose of this request the terms "steel industry", "major company", and "net cash flow" shall have the same meaning as that set forth in title VIII of the Act.

In addition to reporting on the progress on the steel industry as a whole, I request that the Commission prepare its report in such a manner that, to the extent possible, the progress of carbon steel producers in their efforts to adjust and modernize can be distinguished from that of producers of specialty steel.

Inasmuch as the President's determination called for in the Act will have to be made before the end of each annual period, the Commission is requested to begin submitting its annual reports on August 1, 1985, and on each successive August 1 through 1989.

Very truly yours,



WILLIAM E. BROCK

WEB:hcc

Enclosure

THE WHITE HOUSE  
Office of the Press Secretary

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For Immediate Release

MEMORANDUM FOR THE UNITED STATES TRADE REPRESENTATIVE

SUBJECT: Steel Import Relief Determination

Pursuant to Section 202(b)(1) of the Trade Act of 1974, (P.L. 93-618, 88 Stat. 1978), I have determined the actions I will take with respect to the report of the United States International Trade Commission (USITC) dated July 24, 1984 concerning carbon and alloy steel.

I have determined today under Section 203 of the Trade Act that import relief is not in the national economic interest for the following reasons:

1. In responding to this pressing import problem, we must do all we can to avoid protectionism, to keep our market open to free and fair competition, and to provide certainty of access for our trading partners. This Administration has repeatedly, and most recently at the London Economic Summit, committed itself to "resist continuing protectionist pressures, to reduce barriers to trade, and to make renewed efforts to liberalize and expand trade in manufactures, commodities and services."
2. It is not in the national economic interest to take actions which put at risk thousands of jobs in steel fabricating and other consuming industries or in the other sectors of the U.S. economy that might be affected by compensation or retaliation measures to which our trading partners would be entitled.
3. This Administration has already taken many steps to deal with the steel import problem. In 1982, a comprehensive arrangement restraining steel imports from the European Community was negotiated. This Administration has also conducted an unprecedented number of antidumping and countervailing duty investigations of steel imports, in most cases resulting in the imposition of duties or a negotiated settlement. In addition, the governments of Mexico and South Africa have unilaterally imposed voluntary restraint on exports, leading to the termination of unfair trade complaints.

However, I have decided to establish a government policy for the steel industry. I believe that this new policy is the best way to respond to the legitimate concerns of the domestic industry while maintaining access to our market for those who trade fairly.

I am directing you to coordinate and direct the implementation of this policy for the U.S. steel industry which includes the following elements:

more

1. The United States Trade Representative (USTR) will negotiate "surge control" arrangements or understandings and, where appropriate, suspension agreements with countries whose exports to the United States have increased significantly in recent years due to an unfair surge in imports — unfair because of dumping, subsidization, or diversion from other importing countries who have restricted access to their markets. The USTR will negotiate additional such arrangements and understandings, if necessary, to control new surges of imports that result from subsidizing, dumping or other unfair or restrictive trade practices during the next five years. If agreements cannot be reached to control new surges from countries that are guilty of unfair practices, the President will use his authority under the unfair trade laws including Section 301 of the Trade Act of 1974 to assure that these countries do not maintain unrestricted access to the United States market.
2. The United States Trade Representative will reaffirm existing measures with countries that have voluntarily restrained their exports to our market, and will take necessary steps to ensure the effectiveness of these measures. Specifically the Administration will support legislation in the Congress to make enforceable at our borders all voluntary agreements and "surge control" arrangements.
3. The United States Trade Representative will consult with our trading partners to seek the elimination of trade distortive and trade restraining practices in other markets to lead to the liberalization of steel trade around the world.
4. The Department of Commerce will continue to rigorously enforce our unfair trade laws. Further, the Department of Commerce and the United States Trade Representative will self-initiate unfair trade cases including anti-dumping, countervailing duty and Section 301 actions when appropriate.
5. The United States International Trade Commission will be asked to monitor the efforts of the steel industry to adjust and modernize, and to prepare an annual report for the President on those efforts.
6. The Secretary of Commerce will establish an interagency group to analyze all U.S. government domestic tax, regulatory and antitrust laws and policies which could hinder the ability of the steel industry to modernize.
7. The Secretary of Defense and the Federal Emergency Management Agency will analyze domestic steel plate rolling capacity in relationship to emergency needs, and to recommend to the President appropriate actions if deficiencies are found to exist.
8. The Secretary of Labor will work with state and local governments to develop a program to assist workers in communities adversely affected by steel imports.

9. The United States Trade Representative will closely monitor the trade elements of this program and the resultant import trends and report them to the President on a quarterly basis.

The Administration's hope is that this combination of actions, taken without protectionist intention or effect would enable one of the United States' most basic and vital industries to return to a level playing field, one in which steel is traded on the basis of market forces, not government intervention, and one in which the market would seek a return to a more normal level of steel imports, or approximately 18.5 percent, excluding semi-finished steel.

This determination is to be published in the Federal Register.

RONALD REAGAN

\*\*\*\*\*

## Attachment

Annual data specified in section B below are requested to be reported to the maximum extent possible for each of the 21 product categories listed in section A below:

A. Product CategoriesSheet and strip

1. Hot rolled carbon and certain alloy 1/
2. Cold rolled carbon and certain alloy 1/
3. Galvanized carbon and certain alloy 1/
4. Other carbon and certain alloy 1/
5. Stainless

Plate

1. Carbon and certain alloy 1/
2. Stainless

Pipe and tube

1. Oil country tubular goods
2. Line pipe
3. Other carbon and alloy pipes and tubes
4. Stainless

Bars

1. Hot finished carbon bar and certain alloy 1/
2. Cold finished carbon bar and certain alloy 1/
3. Reinforcing carbon bar and certain alloy 1/

Structurals

1. Structural shapes (including fabricated structurals)

Rails and related railway products

1. Rails and related railway products

Wire rods

1. Carbon and certain alloy wire rod 1/

Wire and wire products

1. Carbon and certain alloy wire 1/
2. Stainless wire
3. Carbon and certain alloy 1/ wire products (including wire rope and strand)

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

## Attachment--Con.

Semifinished

## 1. Semifinished

B. Data RequestedDomestic Producers

Production  
Shipments  
Net sales  
Net profits  
Orders  
Inventories  
Prices  
Employment  
Man-hours

Capital expenditures:  
For modern production  
techniques or facilities  
For older production  
techniques or facilities  
For pollution control or  
occupational safety  
and health  
Other  
Capacity and net change  
in capacity  
Research and development  
expenditures  
Other actions to adjust  
and modernize  
Investments in activities  
other than steel

Importers

Total imports  
Prices  
Orders  
Inventories

**Appendix B**

**Notice of the Commission's Investigation**

UNITED STATES INTERNATIONAL TRADE COMMISSION  
Washington, D.C. 20436

(332-209)

Annual Surveys Concerning Competitive Conditions in the Steel Industry  
and Industry Efforts to Adjust and Modernize

AGENCY: UNITED STATES INTERNATIONAL TRADE COMMISSION

ACTION: Institution of an investigation under section 332(g) of the Tariff Act of 1930 (19 U.S.C. 1332 (g)) concerning the competitive conditions in the steel industry and the industry's efforts to adjust and modernize.

EFFECTIVE DATE: March 8, 1985

FOR FURTHER INFORMATION CONTACT: Mr. Dennis Rapkins or Mr. Peter Avery, Minerals and Metals Division, United States International Trade Commission, 701 E Street NW., Washington, D.C. 20436 (telephone: 202-523-0438, 202-523-0342, respectively).

BACKGROUND AND SCOPE OF INVESTIGATION: The Commission instituted the investigation, No. 332-209, following receipt on February 12, 1985, of a request from the United States Trade Representative (USTR), at the direction of the President. In accordance with the request, the Commission will monitor competitive conditions in the steel industry and the industry's efforts to adjust and modernize, and prepare annual reports on those efforts during the 5 year period beginning October 1, 1984. In addition to collecting the information listed in the appendix, the Commission will compile the best information it can for the preceding 12-month period ending September 30 of each year on the following matters:

- (1) The extent to which the major companies of the steel industry have, or will have committed their net cash flow from steel product operations for purposes of reinvestment in, and modernization of, that industry through investment in modern plant and equipment, research and development, and other appropriate projects, such as working capital for steel operations and programs for the retraining of workers;
- (2) Actions taken by the major companies to maintain their international competitiveness, including action to produce price-competitive and quality-competitive products, to control costs of production, including employment costs, and to improve productivity; and
- (3) Whether each of the major companies committed, or will have committed, not less than one percent of net cash flow to the retraining of workers. If any major company did not commit at least one percent of its net cash flow to the retraining of workers, the Commission will report any unusual economic circumstances which contributed to the company's failure to do so.

For the purposes of this investigation, the term "steel industry" is defined as producers in the United States of steel products; "major company" is an enterprise whose raw steel production in the United States during 1983 exceeded 1,500,000 net tons; and "net cash flow" is annual net (after-tax) income plus depreciation, depletion allowances, amortization, and changes in reserves minus dividends and payments on short-term and long-term debts and liabilities.

In addition to reporting on the progress of the steel industry as a whole, reports will be prepared in such a manner that, to the extent possible, the progress of carbon steel producers in their efforts to adjust and modernize can be distinguished from that of producers of specialty steel.

The Commission will submit its initial annual report to the President and USTR by August 1, 1985. Subsequent reports will be submitted by August 1 of each successive year through 1989. A public version of the report will be available 2 weeks later.

**WRITTEN SUBMISSIONS:** Interested persons are invited to submit written statements concerning the investigation. Commercial or financial information which a submitting party desires the Commission to treat as confidential must be submitted on separate sheets of paper, each clearly marked "Confidential Business Information" at the top. All submissions requesting confidential treatment must conform with the requirements of section 201.6 of the Commission's Rules of Practice and Procedures (19 CFR 201.6). All written submissions, except for confidential business information, will be made available for inspection by interested persons. To be assured of consideration by the Commission, written statements should be received at the earliest possible date, but no later than July 1, 1985 and by July 1 of each successive year through 1989. All submissions should be addressed to the Secretary at the Commission's Office in Washington, D.C.

By order of the Commission.



Kenneth R. Mason  
Secretary

Attachment

Issued: March 11, 1985

Annual data specified in section B below are requested to be reported to the maximum extent possible for each of the 21 product categories listed in section A below:

A. Product Categories

Sheet and strip

1. Hot rolled carbon and certain alloy 1/
2. Cold rolled carbon and certain alloy 1/
3. Galvanized carbon and certain alloy 1/
4. Other carbon and certain alloy 1/
5. Stainless

Plate

1. Carbon and certain alloy 1/
2. Stainless

Pipe and tube

1. Oil country tubular goods
2. Line pipe
3. Other carbon and alloy pipes and tubes
4. Stainless

Bars

1. Hot finished carbon bar and certain alloy 1/
2. Cold finished carbon bar and certain alloy 1/
3. Reinforcing carbon bar and certain alloy 1/

Structurals

1. Structural shapes (including fabricated structurals)

Rails and related railway products

1. Rails and related railway products

Wire rods

1. Carbon and certain alloy wire rod 1/

Wire and wire products

1. Carbon and certain alloy wire 1/
2. Stainless wire
3. Carbon and certain alloy 1/ wire products (including wire rope and strand)

Semifinished

1. Semifinished (carbon and certain alloy 1/; and stainless and tool steel)

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

**B. Data Requested**

**Domestic Producers**

Production  
Shipments  
Net sales  
Net profits  
Orders  
Inventories  
Prices  
Employment  
Man-hours

Capital expenditures:  
For modern production  
techniques or facilities  
For older production  
techniques or facilities  
For pollution control or  
occupational safety  
and health  
Other  
Capacity and net change  
in capacity  
Research and development  
expenditures  
Other actions to adjust  
and modernize  
Investments in activities  
other than steel

**Importers**

Total imports  
Prices  
Orders  
Inventories



Appendix C

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. Steel may contain other elements, but iron must predominate, by weight, over each of the other elements.

2. Carbon steel.—Steel in which none of the elements listed below 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
- 0.60 percent of copper, or
- 0.30 percent of aluminum, or
- 0.20 percent of chromium, or
- 0.30 percent of cobalt, or
- 0.35 percent of lead, or
- 0.50 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 less than 1 percent of carbon and over 11.5 percent of chromium;

(ii) Tool steel.—Alloy steel which contains the following combinations 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 0.85 percent carbon and 1.0 percent to 1.8 percent inclusive manganese; or

(C) 0.9 percent to 1.2 percent inclusive chromium and 0.9 percent to 1.4 percent inclusive molybdenum; or

(D) not less than 0.5 percent carbon and not less than 3.5 percent molybdenum; or

(E) not less than 0.5 percent carbon and not less than 5.5 percent tungsten; or

(F) not less than 0.3 percent carbon and 1.25 percent to 11.0 percent inclusive chromium.

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

Alloy steel—Continued

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.

Semifinished products include

9. (A) 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.

(B) Blooms and billets.—Semifinished products generally of rectangular or circular cross section, having a length several times greater than the maximum cross-sectional dimension, and, if rectangular, a width less than 4 times the thickness. A bloom is at least 36 square inches but not less than 3 square inches in cross-sectional area. Blooms and billets are included in AISI product group No. 1B.

(C) Slabs and sheet bars.—Semifinished products of rectangular cross section, having a width of at least 4 times the thickness. A slab is not less than 2 inches in thickness; a sheet bar is less than 2 inches in thickness. Slabs and sheet bars are included in AISI product group No. 1B.

For the purpose of this investigation, semifinished products are classified as follows:

(i) Carbon and certain alloy steel semifinished products, as provided for in items 606.6705, 606.6710, 606.6715, 606.6720, 606.6725, 606.6730, 606.6735, 606.6740, 606.6926, 606.6929, 606.6932, 606.6935, 606.6938, 606.6941, 606.6944, 606.6947, 606.6949, 606.6951, 606.6953, 606.6955, 606.6957, 606.6959, 606.6961 of the Tariff Schedules of the United States Annotated (1985) (TSUSA).

(ii) Stainless and alloy tool steel steel semifinished products, as provided for in items 606.6901, 606.6902, 606.6903, 606.6904, 606.6905, 606.6906, 606.6909, 606.6912, 606.6915, 606.6918, 606.6921, and 606.6923 of the TSUSA.

10. Sheets and strip.—Flat rolled products whether or not corrugated or crimped, in coils or cut to length. Sheets are under 0.1875 inch in thickness and over 12 inches in length. Strip is under 0.1875 inch in thickness and, if cold rolled, over 0.50 inch but not over 12 inches in width, or, if not cold rolled, not over 12 inches in width. Sheets and strip are included in AISI product group Nos. 28, 29, 29A, 30, 31, 32, 33A, 33B, 34, 34B, 35, 36, and 37. For the purposes of this investigation, sheets and strip are classified as follows:

(i) Hot-rolled carbon and alloy steel sheets and strip; provided for in items 607.6710, 607.6720, 607.6730, 607.6740, 607.8100, 607.8342, 608.1920, 608.2120, 608.2320, 608.6710, and 608.6720 of the TSUSA.

(ii) Cold-rolled carbon and alloy steel sheets and strip; provided for in items 607.6200, 607.6400, 607.8350, 607.8355, 607.8360, 607.9205, 607.9210, 607.9315, 607.9320, 608.1940, 608.2145, 608.2150, 608.2340, 608.3810, 608.3820, 608.3900, 608.5510, and 608.5520 of the TSUSA.

(iii) Galvanized carbon and alloy steel sheets and strip; provided for in items 608.0730, 608.1310, 608.1320, and 608.1330 of the TSUSA.

(iv) All other carbon and alloy steel sheets and strip; provided for in items 607.9600, 607.9700, 607.9900, 608.0100, 608.1340, 608.1350, 608.1440, 609.1710, and 609.1790 of the TSUSA.

(v) Stainless steel sheets and strip; provided for in items 607.7610, 607.9010, 607.9020, 608.2900, 608.4300, and 608.5700 of the TSUSA.

11. Plates.—Flat rolled products whether or not corrugated or crimped, in coils or cut to length. Plates are 0.1875 inch or more in thickness and, if not cold rolled, over 8 inches in width, or, if cold rolled, over 12 inches in width. Plates are included in AISI product group No. 6. For the purposes of this investigation, plates are classified as follows:

(i) Carbon and certain alloy steel plate; as provided for in items 607.66, 607.78, 607.91, 607.94, 608.11, 609.14, and 609.15 of the TSUS, and items 607.8320, 608.0710, and 608.1420 of the TSUSA.

(ii) Stainless steel plate; as provided for in items 607.7603, 607.7606, and 607.9005 of the TSUSA.

12. 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, conforming to American Petroleum Institute (API) specifications, as provided for in items 610.3216, 610.3219, 610.3233, 610.3242, 610.3243, 610.3249, 610.3252, 610.3254, 610.3256, 610.3258, 610.3262, 610.3264, 610.3721, 610.3722, 610.3751, 610.3925, 610.3935, 610.4025, 610.4035, 610.4225, 610.4235, 610.4325, 610.4335, 610.4942, 610.4944, 610.4946, 610.4954, 610.4955, 610.4956, 610.4957, 610.4966, 610.4967, 610.4968, 610.4969, 610.4970, 610.5221, 610.5222, 610.5226, 610.5234, 610.5240, 610.5242, 610.5243, 610.5244 of the TSUSA. Oil country tubular goods are included in AISI product group No. 19.

(ii) Line pipe, conforming to API specifications; as provided for in items 610.3208, 610.3209, 610.3212, 610.3213, 610.3711, 610.3712, 610.3713, 610.4931, 610.4933, 610.4936, 610.5211, 610.5214, and 610.5216. Line pipe is included in AISI product group No. 20.

(iii) Other carbon and alloy (excluding stainless) steel pipes and tubes, as provided for in items 610.3000, 610.3100, 610.3205, 610.3221, 610.3227, 610.3231, 610.3234, 610.3241, 610.3500, 610.3600, 610.3704, 610.3728, 610.3732, 610.3945, 610.3955, 610.4045, 610.4055, 610.4245, 610.4255, 610.4345, 610.4355, 610.4500, 610.4600, 610.4800, 610.4920, 610.4925, 610.4928, 610.4948, 610.4951, 610.4953, 610.4976, 610.5160, 610.5204, 610.5206, 610.5209, 610.5229, and 610.5236 of the TSUSA. Other carbon and alloy steel pipes and tubes are included in AISI product group Nos. 18, 21A, 21B, and 22.

(iv) Stainless steel pipes and tubes, welded or seamless, provided for in items 610.3701, 610.3727, 610.3731, 610.3741, 610.3742, 610.5130, 610.5202, 610.5230, and 610.5231. Stainless steel pipes and tubes are included in AISI product group Nos. 21C and 21D.

13. Bars.—Products of solid cross section not conforming completely to the respective specifications set forth in the TSUS for blooms, billets, slabs, sheet bars, wire rods, plates, sheets, strip, wire, rails, joint bars, or tie plates, and which have cross sections in the shape of circles, segments of circles, ovals, triangles, rectangles, hexagons, or octagons. Also, for the purposes of this investigation, the term "bars" includes hollow drill steel, which is a hollow product in any cross section suitable for use in making mining drills or mining drill rods, with the largest internal cross-sectional dimension not greater than one-third of the largest external cross-sectional dimension. For the purposes of this investigation, bars are classified as follows:

(i) Hot finished carbon and certain alloy steel bars; as provided for in items 606.83, 606.86, 606.97, 607.05, 607.07, and 607.09 of the TSUS, and included in AISI product group No. 14.

(ii) Cold finished carbon and certain alloy steel bars; as provided for in items 606.88 and 606.99 of the TSUS, and item 606.9110 of the TSUSA, and included in AISI product group No. 16.

(iii) 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; as provided for in item 606.79 and 606.81 of the TSUS and included in AISI product group No. 15.

14. Structural shapes and units include the following articles:

(i) Angles, shapes, and sections. Nontubular products not conforming completely to the respective specifications set forth in the TSUS for blooms, billets, slabs, sheet bars, bars, wire rods, plates, sheets, strip, wire, rails, joint bars, or tie plates, hot-rolled, forged, extruded, or drawn, or cold formed or cold finished, whether or not drilled, punched, or otherwise advanced, and if cold formed weighing over 0.29 pound per linear foot. Angles, shapes, and sections comprise:

(A) Light structural shapes (bar-size light shapes having a maximum cross-sectional dimension of less than 3 inches; as provided for in items 609.8050, 609.8070, 609.8090, 609.8235, and 609.8240 of the TSUSA and included in AISI product group No. 14A; and

(B) Heavy structural shapes having a maximum cross-sectional dimension of 3 inches or more; as provided for in items 609.8005, 609.8015, 609.8035, 609.8041, 609.8045, 609.8225, and 609.8230 of the TSUSA and included in AISI product group Nos. 4 and 5(pt.); and

(ii) Sheet piling.—Rolled straight web, deep-arch, arch-web, and Z-sections having continuous interlocking joints on each lengthwise edge; as provided for in items 609.96 and 609.98 of the TSUS. Sheet piling is included in AISI product group No. 5 (pt); and

(iii) Fabricated structural units, which include columns, pillars, posts, beams, girders, and similar structural units; as provided for in items 609.84, 609.86, 652.94 and 652.96 of the TSUS. These columns, pillars, etc., are included in AISI product group No. 38.

15. 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 610.20 and 610.21 of the TSUS. Rails are included in AISI product group Nos. 7 and 8.

(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 610.25 and 610.26 of the TSUS. Joint bars and tie plates are included in AISI product group Nos. 9 and 10.

(iii) Railway track spikes, of one piece construction, used to secure tie plates or ties; as provided for in item 646.3020 of the TSUSA. Railway track spikes are included in AISI product group No. 11.

(iv) Railroad and railway (RR) axles and wheels, parts thereof, and axle bars; as provided for in items 690.25 and 690.30 of the TSUS. These articles are included in AISI product group Nos. 12 and 13.

16. Carbon and certain alloy steel wire rods.—Coiled, semifinished, hot-rolled products of solid cross section, approximately round in cross section, not under 0.20 inch nor over 0.74 inch in diameter; as provided for in items 607.14, 607.17, 607.22, 607.23, 607.41, and 607.59 of the TSUS. Wire rods are included in AISI product group No. 3.

17. Wire and wire products are classified as follows:

(i) Carbon and certain alloy steel wire; a finished, drawn, nontubular product, of any cross-sectional configuration, in coils, and not over 0.703 inch in maximum cross-sectional dimension; the term includes a product of solid rectangular cross section, in coils, with a cold-rolled finish, and not over 0.25 inch thick and not over 0.50 inch wide. Wire is provided for in items 609.20, 609.21, 609.22, 609.25, 609.28, 609.35, 609.36, 609.37, 609.40, 609.41, 609.43, 609.70, 609.72, 609.75, and 609.76 of the TSUS, and item 609.3040, 609.3340, 609.4530, and 609.4560 of the TSUSA. Wire is included in AISI product group Nos. 23 and 27(pt.).

(ii) Stainless steel wire; as provided for in items 609.3020, 609.3320, 609.4502, 609.4504, 609.4542, 609.4544 of the TSUSA. Stainless steel wire is included in AISI product group No. 23.

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

(A) Barbed wire is a wire, or strand of twisted wires, armed with barbs or sharp points; as provided for in item 642.02 of the TSUS. Barbed wire is included in AISI product group No. 25(pt).

(B) Twisted barbless wire is a wire strand of loosely twisted double wire, suitable for fencing purposes, not fitted with fittings, not made up into articles, and not covered with nonmetallic material; as provided for in item 642.1105 of the TSUSA. Twisted barbless wire is included in AISI product group No. 25(pt).

(C) Wire strand is two or more wires which together constitute one of the parts which are twisted together to form rope, cord, or cordage, not fitted with fittings, not made up into articles, not of brass plated wire, not covered with nonmetallic material, and not including twisted barbless wire; as provided for in items 642.1120, 642.1142, 642.1144, and 642.1146 of the TSUSA. Wire strand is included in AISI product group No. 23(pt).

(D) 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 642.12 and 642.16 of the TSUS. Wire ropes, cables, and cordage are included in AISI product group No. 23(pt).

(E) Wire fencing is a galvanized product wholly of round wire measuring not over 0.20 inch and not under 0.075 inch in diameter, whether or not such wire is covered with plastics; as provided for in item 642.35 of the TSUS. Wire fencing is included in AISI product group Nos. 23(pt) and 26.

(F) Brads, nails, 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 646.25 and 646.26 of the TSUS. Brads, nails, spikes, staples, and tacks are included in AISI product group No. 24.

(G) Other wire products comprises: wire bale ties, with or without buckles or fastenings and whether or not coated with paint or other substance; as provided for in items 642.90 and 642.91 of the TSUS and included in AISI product group No. 27(pt); and milliners' wire and other wire covered with textile or other material not wholly of metal; as provided for in items 642.96 and 642.97 of the TSUS and included AISI product group No. 23.

Appendix D

U.S. Imports of Certain Carbon and Alloy Steel

Table D-1.—Certain carbon and alloy steel: U.S. imports, by product,  
June 1984–May 1985

(In thousands)	
Item	Quantity
Carbon and certain alloy steel	
products: <u>1/</u>	
Semifinished <u>2/</u>	1,668,223
Plates	2,184,608
Sheets and strip:	
Hot rolled	2,618,281
Cold rolled	3,752,841
Galvanized	2,683,568
Other	734,537
Subtotal, sheets and strip	9,789,227
Bars:	
Hot finished	714,691
Cold finished	336,602
Reinforcing	423,139
Subtotal, bars	1,474,432
Wire rod	1,514,956
Wire	648,958
Wire products	707,691
Structural shapes and units	2,542,995
Rails and related railway products	388,816
Pipes and tubes:	
Oil country tubular goods	3,259,050
Line pipe	1,034,175
Other	1,061,601
Subtotal, pipes and tubes	5,354,826
Total, carbon and certain alloy steel	26,274,732
Certain stainless and alloy tool steel:	
Semifinished <u>2/</u>	12,790
Stainless steel:	
Plates	9,145
Sheets and strip	123,963
Wire	25,068
Pipes and tubes	29,010
Total, certain stainless and alloy tool steel	199,976
Grand total	26,474,708

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

2/ Imports of semifinished tool steel were not specifically provided for in the TSUSA prior to April 1985. Imports prior to April are recorded under the carbon and certain alloy steel category.

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

**Appendix E**

**Specifications of the Products Referenced in Pricing Section**

The products identified below are those used by the Commission to collect pricing information in its questionnaires:

### Semifinished

Carbon and certain alloy steel.—Carbon steel for drawing applications, AISI 1008 rimmed steel or AISI 1008 aluminum killed, fine grain, 6 inches–10 inches thick, 30 inches–80 inches wide, 20 feet to 40 feet long.

Stainless and alloy tool steel.—Stainless steel billets, Grade 304, round cornered square, 8 inches by 8 inches.

### Sheets and strip

Hot rolled.—Hot-rolled carbon steel bands, in coils, mill edge, commercial quality, 0.25 percent carbon maximum, not pickled, 0.1210 inches through 0.1875 inch in thickness, over 36 inches through 72 inches in width.

Cold rolled.—Cold-rolled carbon steel sheet, in coils, commercial quality, class 1, 0.0280 inch through 0.0630 inch in thickness, 45 inches through 60 inches in width.

Galvanized.—Galvanized carbon steel sheet, in coils, commercial or lock forming quality, G-40 coating, regular or minimum spangle, 0.028 inch through 0.035 inch in thickness, 24 inches through 72 inches in width.

Other carbon and certain alloy steel.—Electrolytic tin plate, S.R. 80-lb., .25 coating.

Stainless steel.—Stainless steel cold-rolled sheets, AISI grade 304, 2B finish, 16 gauge in thickness, 36" (914 mm) exact through 48" (1,218 mm) exact in width, and coiled.

### Plate

Carbon and certain alloy steel.—Hot-rolled carbon steel plate, in cut lengths, A-36 or equivalent, sheared edge, not heat treated, not cleaned or oiled, 3/8 inch to under 1/2 inch in thickness, over 90 inches through 100 inches in width.

Stainless steel.—Stainless steel plate, HRAP, AISI grade 304, 1/4" (6 mm) thick, 72" (1,827 mm) exact through 96" (2,437 mm) exact in width X 240" (6,091 mm) to 290" (7,360 mm) long, cut to length.

### Pipes and tubes

Oil country tubular goods.—Oil-country tubular goods, API 5A, Grade K-55, 7 inches outside diameter, 0.317 inch wall thickness, 23 pounds per foot, PE.

Line pipe.—Line pipe, API 5L, Grade X42, 8-5/8 inches outside diameter, 0.322 wall thickness, 28.55 pounds per foot.

Other carbon and certain alloy steel.—Round fence tubing, light wall, galvanized, 1.315 inch outside diameter.

Stainless steel.—Stainless steel pipe, Grade 304, 1-1/2 inches–4 inches outside diameter, 1/8 inch–3/4 inch wall thickness.

### Bars

Hot finished.—Hot-rolled carbon steel bars, in cut lengths or coils, 1/2 inch through 6-1/8 inches in diameter/thickness, all shapes except flats, 1000 series, not thermal treated.

Cold finished.—Cold-formed carbon steel bars, in cut lengths or coils, 1/2 inch through 6 inches in diameter/thickness, all shapes including flats, 1000 series, not thermal treated.

Reinforcing.—Deformed reinforcing bars, ASTM 615, Grade No. 40.

### Structural shapes and units

Carbon and certain alloy steel.—Wide-flange carbon steel beams, A-36 or equivalent, 8 inches by 8 inches, 31 through 67 pounds per foot, 40 through 60 feet in length, item order of 5 tons and over.

### Rails and related railway products

Carbon and certain alloy steel.—Carbon steel rails, standard quality, 39 feet in length, 115 lbs. through 140 lbs. per yard.

### Wire rods

Carbon and certain alloy steel.—Hot-rolled carbon steel wire rod, in coils, standard quality, AISI specifications C-1008 through C-1022, 7/32 inch in diameter.

### Wire and wire products

Carbon and certain alloy steel wire.—Galvanized wire, 12 gauge, soft industrial quality.

Stainless steel wire.—Cold-drawn stainless steel round wire, Grade 304, 1/8 inch in diameter.

Carbon and certain alloy steel wire products.—Steel wire rope, IPS, 5/8 inch, 6 x 19, IWRC.



Appendix F

Description of Actions Taken by the Steel Industry to Adjust and Modernize

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(Pages 66 to 77 contain information entitled to confidential treatment  
and have not been published.)

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Appendix G

Description of Actions Taken by Major Companies to Maintain  
International Competitiveness

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(Pages 80 to 101 contain information entitled to confidential treatment  
and have not been published.)

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