

# Mineral Industry Surveys

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## IRON AND STEEL SCRAP IN SEPTEMBER 1998

On a daily basis in September 1998, estimated consumption of iron and steel scrap was unchanged compared with that of August 1998, according to the U.S. Geological Survey. Compared with August 1998 data, daily average production rose by 9%, net receipts decreased by 3%, and stocks at the end of the month were down slightly. These observations are based upon responses from 69% of the companies surveyed that manufacture pig iron and semifinished steel products, which represent 55% of the total scrap consumption in those sectors and estimates for nonrespondents of this survey.

On a daily average basis, pig iron production and consumption remained unchanged from that of August 1998. Stocks of pig iron at month's end increased by 6% compared with those at the end of August 1998.

Exports for the month of August 1998 fell by more than 31% compared with those of July 1998. Canada was the leading country of destination, accounting for 30% of the total exports in August 1998, followed by the Republic of Korea with 22% and Taiwan with 11%.

Table 7 shows that San Francisco, CA, was the leading customs district for tonnage of exports in August 1998, accounting for 21% of the total exports, followed by Los Angeles, CA, and Boston, MA, both with 14%.

Table 10 shows that Detroit, MI, was the leading U.S. Customs district for tonnage of imports in August 1998, accounting for 43% of the total imports, followed by New Orleans, LA, with 28% and Seattle, WA, with 11%.

According to the American Iron and Steel Institute (AISI), domestic raw steel production in September 1998 amounted to 7,750,000 metric tons, down by 7% from 8,340,000 tons in August 1998 and down by 5% from 8,170,000 tons in September 1997. Year-to-date production through September 1998 was 75,600,000 tons, up 4% compared with 72,700,000 tons for the same period 1 year ago. The electric furnace portion of raw steel production for September 1998 was 44%, down slightly from that in August 1998 and up slightly from that in September 1997.

Raw steel capability utilization (AISI data) in September 1998 was 83%, down by 3% from that in August 1998 and down 8% from that in September 1997. Continuous cast steel production in the United States accounted for 95% of total raw steel production in September 1998, or about the same as that in both August 1998 and that in September 1997. Through September, continuous cast steel production represented 95% of total steel production in 1998 as well as in 1997.

TABLE 1  
IRON AND STEEL SCRAP, PIG IRON, AND DIRECT-REDUCED IRON STATISTICS FOR STEEL PRODUCERS 1/ 2/

(Thousand metric tons)

	September 1998			Year to date		
	Integrated steel producers 3/	Electric furnace steel producers 4/	Total for steel producers	Integrated steel producers 3/	Electric furnace steel producers 4/	Total for steel producers
<b>Scrap:</b>						
Receipts from dealers and other sources	700	2,400	3,100	6,700	24,000	31,000
Receipts from other own company plants	W	W	210	W	W	1,900
Production recirculating scrap	780	410	1,200	6,700	3,800	10,000
Production obsolete scrap	10	3	13	120	32	150
<b>Consumption (by type of furnace):</b>						
Blast furnace	(5/)	--	(5/)	(5/)	--	(5/)
Basic oxygen process	W	W	1,300	W	W	13,000
Electric furnace	W	W	3,100	W	W	29,000
Other (including air furnace) 6/	(5/)	--	(5/)	(5/)	--	(5/)
Total consumption	1,400	3,000	4,400	13,000	29,000	42,000
Shipments	140	6	150	1,300	98	1,400
Stocks end of month	2,100	2,400	4,600	19,000	23,000	41,000
<b>Pig iron (includes hot metal):</b>						
Receipts	520	180	700	5,400	1,400	6,800
Production	3,800	(7/)	3,800	35,000	(7/)	35,000
<b>Consumption (by type of furnace):</b>						
Basic oxygen process	W	W	3,900	W	W	36,000
Direct castings 8/	(5/)	--	(5/)	(5/)	--	(5/)
Electric furnace	W	W	280	W	W	2,400
Total consumption	4,000	100	4,100	37,000	1,000	38,000
Shipments	W	W	240	2,700	5	2,700
Stocks end of month	W	W	560	XX	XX	XX
<b>Direct-reduced iron: 9/</b>						
Receipts	43	98	140	W	W	1,100
<b>Consumption (by type of furnace):</b>						
Blast furnace	11	--	11	300	1	300
Basic oxygen process	(10/)	--	(10/)	(10/)	(10/)	(10/)
Electric furnace	--	(11/)	(11/)	--	(11/)	(11/)
Total consumption	11	--	11	300	1	300
Shipments	--	--	--	--	--	--
Stocks end of month	170	150	320	XX	XX	XX

W Withheld to avoid disclosing company proprietary data; included in "Total for steel producers" and/or "Total consumption." XX Not applicable.

1/ Data are rounded to two significant digits; may not add to totals shown.

2/ Includes manufacturers of raw steel that also produce steel castings. September 1998 data are based on returns from 69% of monthly respondents, representing 55% of scrap consumption during this month, and estimates for nonrespondents of this survey. Year-to-date data are based on returns from 70% of respondents, representing 58% of scrap consumption and estimates for nonrespondents.

3/ Includes data for electric furnaces operated by integrated steel producers.

4/ Includes minimill and specialty steel producers; includes data for other furnaces operated by these steel producers.

5/ Withheld to avoid disclosing company proprietary data; included in "Consumption: Basic oxygen process."

6/ Includes vacuum melting furnaces and miscellaneous uses.

7/ Less than 1/2 unit.

8/ Includes ingot molds and stools.

9/ Includes direct-reduced iron, hot-briquetted iron, and iron carbide. Domestic production data are included in "Receipts."

10/ Withheld to avoid disclosing company proprietary data; included in "Consumption: Blast furnace."

11/ Withheld to avoid disclosing company proprietary data.

TABLE 2  
 RECEIPTS FROM OUTSIDE SOURCES, PRODUCTION, CONSUMPTION, AND STOCKS OF IRON AND STEEL SCRAP, BY GRADE, FOR STEEL PRODUCERS 1/ 2/

(Thousand metric tons)

Item	September 1998				Year to date		
	Receipts of scrap from brokers, dealers, and other outside sources	Production of home scrap (recirculating scrap resulting from current operations)	Consumption of purchased and home scrap 3/	Ending stocks	Receipts of scrap from brokers, dealers, and other outside sources	Production of home scrap (recirculating scrap resulting from current operations)	Consumption of purchased and home scrap 3/
Carbon steel:							
Low-phosphorus plate and punchings	32	--	31	20	310	W	300
Cut structural and plate	300	58	350	230	2,800	530	3,300
No. 1 heavy melting steel	420	320	780	710	4,500	3,000	7,700
No. 2 heavy melting steel	370	27	440	460	3,800	380	4,100
No. 1 and electric furnace bundles	430	160	570	430	4,200	W	5,100
No. 2 and all other bundles	72	W	71	69	700	W	700
Electric furnace 1 foot and under (not bundles)	--	12	W	(4/)	--	W	W
Railroad rails	14	W	16	12	150	W	170
Turnings and borings	150	7	170	110	1,500	49	1,600
Slag scrap	45	130	170	180	490	1,100	1,600
Shredded and fragmentized	580	W	720	490	5,200	W	6,500
No. 1 busheling	280	W	310	290	3,100	W	3,100
Steel cans (Post consumer)	W	W	W	W	W	W	300
All other carbon steel scrap	190	250	400	360	1,900	2,100	3,800
Stainless steel scrap	43	33	78	45	480	320	800
Alloy steel scrap	21	55	71	110	200	500	680
Ingot mold and stool scrap	W	W	7	16	W	W	70
Machinery and cupola cast iron	W	W	W	4	W	W	W
Cast iron borings	16	W	19	W	170	W	180
Motor blocks	W	--	W	W	W	--	W
Other iron scrap	30	33	66	W	260	310	620
Other mixed scrap	76	46	110	W	730	380	1,100
Total	3,100	1,200	4,400	4,600	31,000	10,000	42,000

W Withheld to avoid disclosing company proprietary data; included in "Total."

1/ Data are rounded to two significant digits; may not add to totals shown.

2/ Includes manufacturers of raw steel that also produce steel castings.

3/ Includes recirculating scrap and home-generated obsolete scrap.

4/ Less than 1/2 unit.

TABLE 3  
 RECEIPTS FROM OUTSIDE SOURCES, PRODUCTION, AND CONSUMPTION OF IRON AND STEEL SCRAP,  
 BY REGION AND STATE, FOR STEEL PRODUCERS 1/ 2/

(Thousand metric tons)

Region and State	September 1998			Year to date		
	Receipts of scrap from brokers, dealers, and other outside sources	Production of home scrap (recirculating scrap resulting from current operations)	Consumption of purchased and home scrap 3/	Receipts of scrap from brokers, dealers, and other outside sources	Production of home scrap (recirculating scrap resulting from current operations)	Consumption of purchased and home scrap 3/
<b>Mid-Atlantic and New England:</b>						
New Jersey, New York	W	W	W	1,100 4/	55 4/	1,200 4/
Pennsylvania	W	W	W	2,800	1,800	4,800
Total	420	190	620	3,900 4/	1,800 4/	6,000 4/
<b>North Central:</b>						
Illinois	W	W	W	3,100	810	3,800
Indiana	W	W	W	2,500	3,100	5,600
Iowa, Minnesota, Missouri, Nebraska, Wisconsin	190	17	200	1,900 4/	130 4/	1,800 4/
Michigan	160	100	230	1,800	540	2,100
Ohio	430	180	600	4,200	1,600	5,800
Total	1,400	730	2,000	13,000 4/	6,200 4/	19,000 4/
<b>South Atlantic:</b>						
Delaware, Maryland, Virginia, West Virginia	130	67	210	1,200	620	1,900
Florida, Georgia, North Carolina, South Carolina	180	13	190	1,500	100	1,700
Total	310	80	400	2,800	720	3,600
<b>South Central:</b>						
Alabama, Kentucky, Mississippi, Tennessee	300	59	360	2,700	520	3,300
Arkansas, Louisiana, Oklahoma, Texas	420	48	640	4,900	510	6,300
Total	720	110	1,000	7,600	1,000	9,600
<b>Mountain and Pacific:</b>						
Arizona, California, Colorado, Oregon, Utah, Washington	310	74	390	3,000	700	3,600
Grand total	3,100	1,200	4,400	31,000	10,000	42,000

W Withheld to avoid disclosing company proprietary data; included in "Total" and/or "Grand total."

1/ Data are rounded to two significant digits; may not add to totals shown.

2/ Includes manufacturers of raw steel that also produce steel castings.

3/ Includes recirculating scrap and home-generated obsolete scrap.

4/ Includes revised data from previous months.

TABLE 4  
RECEIPTS OF IRON AND STEEL SCRAP, BY REGION AND GRADE, FOR STEEL PRODUCERS 1/ 2/ 3/ 4/

(Thousand metric tons)

Item	September 1998					Year to date				
	Mid-Atlantic and New England	North Central	South Atlantic	South Central	Mountain and Pacific	Mid-Atlantic and New England	North Central	South Atlantic	South Central	Mountain and Pacific
Carbon steel:										
Low-phosphorus plate and punchings	12	8	W	W	--	130	100	W	W	--
Cut structural and plate	38	130	62	47	26	410 6/	1,100 6/	600	440	270
No. 1 heavy melting steel	52	150	27	160	37	510 6/	1,900 6/	250	1,500	320
No. 2 heavy melting steel	10	120	43	130	64	130 6/	1,400 6/	380	1,300	590
No. 1 and electric furnace bundles	35	330	24	30	10	380	3,200	220	360	78
No. 2 and all other bundles	9	28	W	23	10	76	250	36	250	95
Electric furnace 1 foot and under (not bundles)	--	--	--	--	--	--	--	--	--	--
Railroad rails	W	W	--	W	W	W	W	--	48	W
Turnings and borings	W	31	31	49	6	250 6/	310 6/	230	610	48
Slag scrap	12	12	9	10	W	100	190	100	90	W
Shredded and fragmented	67	190	64	170	88	470 6/	1,700 6/	630	1,600	850
No. 1 busheling	61	150	22	32	11	570 6/	1,300 6/	190	820	140
Steel cans (Post consumer)	W	W	W	W	W	W	W	W	W	W
All other carbon steel scrap	18	130	8	31	8	190	1,300	64	320	W
Stainless steel scrap	34	9	--	--	--	400	79	--	--	--
Alloy steel scrap	7	W	--	W	--	66	W	--	W	--
Ingot mold and stool scrap	(5/)	W	--	--	--	W	W	--	--	--
Machinery and cupola cast iron	--	W	--	W	--	--	W	--	W	--
Cast iron borings	W	W	W	9	--	W	W	W	84	--
Motor blocks	(5/)	--	W	--	--	(5/)	--	W	--	--
Other iron scrap	W	W	W	W	W	W	W	W	W	W
Other mixed scrap	12	10	W	W	W	81	W	W	W	400
Total	420	1,400	310	720	310	3,900 6/	13,000 6/	2,800	7,600	3,000

W Withheld to avoid disclosing company proprietary data; included in "Total."

1/ Scrap received from brokers, dealers, and other outside sources.

2/ A breakout of the States within each region is provided in Table 3.

3/ Includes manufacturers of raw steel that also produce steel castings.

4/ Data are rounded to two significant digits; may not add to totals shown.

5/ Less than 1/2 unit.

6/ Includes revised data from previous months.

TABLE 5  
CONSUMPTION OF IRON AND STEEL SCRAP BY REGION AND GRADE, FOR STEEL PRODUCERS 1/ 2/ 3/

(Thousand metric tons)

Item	September 1998					Year to date				
	Mid-Atlantic and New England	North Central	South Atlantic	South Central	Mountain and Pacific	Mid-Atlantic and New England	North Central	South Atlantic	South Central	Mountain and Pacific
Carbon steel:										
Low-phosphorus plate and punchings	14	6	W	W	--	140	89	W	W	--
Cut structural and plate	55	120	90	59	26	600 5/	1,100 5/	830	520	260
No. 1 heavy melting steel	92	350	49	200	89	910 5/	3,700 5/	460	1,800	790
No. 2 heavy melting steel	17	150	47	160	70	190 5/	1,500 5/	370	1,500	600
No. 1 and electric furnace bundles	35	450	W	44	9	380	3,900	270	410	77
No. 2 and all other bundles	9	24	W	24	10	78	230	37	250	96
Electric furnace 1 foot and under (not bundles)	--	12	--	W	--	--	W	--	W	--
Railroad rails	W	W	--	W	W	W	23	--	42	W
Turnings and borings	33	42	30	63	7	290 5/	410 5/	240	630	49
Slag scrap	19	100	17	26	W	180 5/	970 5/	150	260	W
Shredded and fragmented	91	190	78	260	98	760 5/	1,700 5/	730	2,400	870
No. 1 busheling	66	150	19	71	12	610 5/	1,300 5/	200	840	130
Steel cans (Post consumer)	W	12	W	W	W	W	150 5/	W	W	W
All other carbon steel scrap	48	260	19	50	W	500	2,400	170	490	W
Stainless steel scrap	67	11	--	--	--	700	110	--	--	--
Alloy steel scrap	18	50	--	W	--	180	480	--	29	--
Ingot mold and stool scrap	W	2	--	W	W	W	16	--	12	W
Machinery and cupola cast iron	--	W	--	W	--	--	W	--	W	W
Cast iron borings	W	W	W	9	--	W	W	W	87	--
Motor blocks	(4/)	--	W	--	--	(4/)	--	W	--	--
Other iron scrap	20	32	W	W	W	180	330	W	W	W
Other mixed scrap	19	31	W	12	W	150 5/	340 5/	W	120	430
Total	620	2,000	400	1,000	390	6,000 5/	19,000 5/	3,600	9,600	3,600

W Withheld to avoid disclosing company proprietary data; included in "Total."

1/ Data are rounded to two significant digits; may not add to totals shown.

2/ A breakout of the States within each region is provided in Table 3.

3/ Includes manufacturers of raw steel that also produce steel castings.

4/ Less than 1/2 unit.

5/ Includes revised data from previous months.

TABLE 6  
U.S. EXPORTS OF IRON AND STEEL SCRAP BY SELECTED REGION AND COUNTRY 1/ 2/

(Thousand metric tons and thousand dollars)

Region and country	August 1998		Year to date	
	Quantity	Value	Quantity	Value
North America and South America:				
Canada	98	10,700	1,050	124,000
Mexico	33	3,620	721	94,300
Venezuela	(3/)	24	131	14,100
Other	(3/)	108	27	3,940
Total	131	14,400	1,930	236,000
Africa, Europe, and Middle East:				
Belgium	(3/)	181	2	685
Italy	(3/)	59	19	10,200
South Africa	(3/)	750	9	7,340
Spain	6	5,490	45	28,600
Turkey	35	3,280	303	37,200
Other	15	2,830	52	12,500
Total	57	12,600	430	96,500
Asia, Australia, and Oceania:				
Australia	(3/)	15	(3/)	441
China	21	4,190	134	35,600
Hong Kong	4	745	40	9,590
India	5	667	15 4/	3,680
Japan	2	493	15	7,580
Korea, Republic of	72	7,690	838	123,000
Malaysia	--	--	94	11,600
Pakistan	(3/)	94	1	393
Taiwan	37	5,400	220	32,600
Thailand	(3/)	145	75	9,240
Other	1	607	59	9,680
Total	142	20,000	1,490 4/	243,000
Grand total	330	47,100	3,850 4/	576,000

1/ Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ships, boats and other vessels for scrapping. Export valuation is on a "free alongside ship" (f.a.s.) basis.

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ Less than 1/2 unit.

4/ Includes revised data from previous months.

Source: Bureau of the Census.

TABLE 7  
U.S. EXPORTS OF IRON AND STEEL SCRAP BY REGION AND SELECTED CUSTOMS DISTRICT 1/ 2/ 3/

(Thousand metric tons and thousand dollars)

Region and customs district	August 1998		Year to date	
	Quantity	Value	Quantity	Value
<b>Canadian-U.S. Border:</b>				
Buffalo, NY	6	1,990	111	23,900
Detroit, MI	10	1,580	232	29,100
Duluth, MN	(4/)	51	7	851
Pembina, ND	20	1,840	192	20,000
Other 5/	59	5,050	497	47,800
Total	96	10,500	1,040	122,000
<b>East Coast:</b>				
Boston, MA	46	4,290	285	31,900
Miami, FL	1	89	10	1,850
New York, NY	15	5,850	472	83,800
Norfolk, VA	10	731	116 6/	12,600
Philadelphia, PA	(4/)	13	83	9,440
Portland, ME	(4/)	61	3	495
Other	3	507	53	9,780
Total	76	11,500	1,020 6/	150,000
<b>Gulf Coast &amp; Mexican-U.S. Border (includes Caribbean territories):</b>				
Houston-Galveston, TX	5	900	42	20,300
Laredo, TX	14	1,540	300	38,900
New Orleans, LA	2	3,180	35	20,400
Tampa, FL	--	--	3	434
Other	(4/)	93	33	4,710
Total	21	5,720	414	84,700
<b>West Coast:</b>				
Columbia-Snake	1	525	6	3,200
Honolulu, HI	(4/)	42	61	8,300
Los Angeles, CA	47	7,530	491	81,600
San Diego, CA	15	1,670	159	23,200
San Francisco, CA	69	8,660	485	71,500
Seattle, WA	4	869	178	31,800
Total	136	19,300	1,380	220,000
Grand total	330	47,100	3,850 6/	576,000

1/ Re-export activity for August 1998 amounted to 130 metric tons valued at \$51,400; year to date amounted to 6,560 metric tons valued at \$1,250,000.

2/ Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ships, boats and other vessels for scrapping. Export valuation is on a "free alongside ship" (f.a.s.) basis.

3/ Data are rounded to three significant digits; may not add to totals shown.

4/ Less than 1/2 unit.

5/ Includes Code 70, which is for low-valued exports from the United States to Canada.

6/ Includes revised data from previous months.

Source: Bureau of the Census.



TABLE 8  
U.S. EXPORTS OF IRON AND STEEL SCRAP AND OTHER FERROUS PRODUCTS BY GRADE 1/ 2/

(Thousand metric tons and thousand dollars)

Item	August 1998		Year to date	
	Quantity	Value	Quantity	Value
No. 1 heavy melting steel	69	6,620	830	91,500
No. 2 heavy melting steel	15	1,430	148	20,000
No. 1 bundles	(3/)	3	19	2,260
No. 2 bundles	3	303	27	2,690
Shredded steel scrap	46	4,310	853	108,000
Borings, shovelings and turnings	13	809	157	12,400
Cut plate and structural	1	148	97	12,000
Tinned iron or steel	7	1,260	72	13,300
Remelting scrap ingots	(3/)	135	8	1,430
Cast iron	29	3,750	378	44,300
Other iron and steel	57	6,540	482	63,000
Total carbon steel and cast iron	241	25,300	3,070	371,000
Stainless steel	33	14,700	197 4/	118,000
Other alloy steel	56	7,070	587	87,200
Total stainless and alloy steel	89	21,800	784 4/	205,000
Total carbon, stainless, alloy steel and cast iron	330	47,100	3,850 4/	576,000
Ships, boats, and other vessels for breaking up (for scrapping)	--	--	3	907
Used rails for rerolling and other uses	4	1,060	21	7,190
Total scrap exports	334	48,100	3,880 4/	584,000
Exports of manufactured ferrous products:				
Pig iron < or = 0.5% phosphorus	5	762	49	6,250
Pig iron > 0.5% phosphorus	2	219	8	718
Alloy pig iron	(3/)	12	5	503
Total pig iron	8	993	61	7,480
Direct-reduced iron (DRI)	1	49	4	375
Spongy iron products, not DRI	(3/)	307	12	3,840
Granules for abrasive cleaning and other uses	2	1,030	18	11,100
Powders of alloy steel	1	2,060	6	19,200
Other ferrous powders	2	6,750	18	52,200
Total DRI, granules and powders	5	10,200	57	86,600
Grand total	347	59,300	4,000 4/	678,000

1/ Export valuation is on a "free alongside ship" (f.a.s.) basis.

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ Less than 1/2 unit.

4/ Includes revised data from previous months.

Source: Bureau of the Census.

TABLE 9  
U.S. IMPORTS FOR CONSUMPTION OF IRON AND STEEL SCRAP 1/ 2/  
BY SELECTED COUNTRY

(Thousand metric tons and thousand dollars)

Country	August 1998		Year to date	
	Quantity	Value	Quantity	Value
Canada	165	20,100	1,580	207,000
Japan	6	891	25	3,850
Mexico	3	1,500	62	21,400
Netherlands	44	5,290	237	27,900
United Kingdom	23	2,800	340	49,300
Other	3	557	201	25,600
Total	243	31,100	2,440	335,000

1/ Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ships, boats and other vessels for scrapping. Import valuation is on a customs basis.

2/ Data are rounded to three significant digits; may not add to totals shown.

Source: Bureau of the Census.

TABLE 10  
U.S. IMPORTS FOR CONSUMPTION OF IRON AND STEEL SCRAP 1/ 2/  
BY SELECTED CUSTOMS DISTRICT

(Thousand metric tons and thousand dollars)

Customs district	August 1998		Year to date	
	Quantity	Value	Quantity	Value
Buffalo, NY	18	2,490	260	40,500
Charleston, SC	11	1,290	54	6,330
Cleveland, OH	8	834	29	4,010
Detroit, MI	104	12,400	909	119,000
Laredo, TX	2	840	27	10,700
New Orleans, LA	68	8,280	699	92,500
Ogdensburg, NY	2	894	12	3,060
Pembina, ND	1	244	19	3,000
San Diego, CA	1	634	9	5,610
Seattle, WA	26	2,450	262	26,800
Other	2	735	164	23,700
Total	243	31,100	2,440	335,000

1/ Includes tinplate and terneplate; excludes used rails for rerolling and other uses and ships, boats and other vessels for scrapping. Import valuation is on a customs basis.

2/ Data are rounded to three significant digits; may not add to totals shown.

Source: Bureau of the Census.

TABLE 11  
U.S. IMPORTS OF IRON AND STEEL SCRAP AND OTHER  
FERROUS PRODUCTS BY GRADE 1/2/

(Thousand metric tons and thousand dollars)

Item	August 1998		Year to date	
	Quantity	Value	Quantity	Value
No. 1 heavy melting steel	8	1,010	152	19,600
No. 2 heavy melting steel	(3/)	38	22	1,590
No. 1 bundles	29	3,590	193	24,400
No. 2 bundles	--	--	5	595
Shredded steel scrap	69	8,360	473	60,700
Borings, shovelings and turnings	3	360	123	15,200
Cut plate and structural	1	207	37	4,760
Tinned iron or steel	11	1,130	44	3,910
Remelting scrap ingots	(3/)	138	15	3,530
Cast iron	10	1,230	159	19,200
Other iron and steel	97	11,200	960	130,000
Total carbon steel and cast iron	229	27,300	2,180	284,000
Stainless steel	2	1,030	46	17,000
Other alloy steel	12	2,820	213	34,400
Total stainless and alloy steel	14	3,850	259	51,400
Total carbon, stainless, alloy steel and cast iron	243	31,100	2,440	335,000
Ships, boats, and other vessels for breaking up (for scrapping)	--	--	--	--
Used rails for rerolling and other uses	46	6,990	169	25,600
Total scrap imports	46	6,990	169	25,600
Imports of manufactured ferrous products:				
Pig iron < or = 0.5% phosphorus	517	70,300	3,290	477,000
Pig iron > 0.5% phosphorus	6	893	191	25,400
Alloy pig iron	44	5,840	139	18,600
Total pig iron	566	77,000	3,620	521,000
Direct-reduced iron (DRI)	119	13,500	718	89,000
Spongy iron products, not DRI	(3/)	5	66	10,500
Granules for abrasive cleaning and other uses	2	1,250	18	9,630
Powders of alloy steel	2	2,470	19	26,000
Other ferrous powders	5	4,880	56	55,600
Total DRI, granules and powders	128	22,100	876	191,000
Grand total	983	137,000	7,110	1,070,000

1/ Import valuation is on a customs basis.

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ Less than 1/2 unit.

Source: Bureau of the Census.

TABLE 12  
U.S. RAW STEEL PRODUCTION, RAW STEEL CAPABILITY UTILIZATION,  
AND CONTINUOUS CAST STEEL PRODUCTION

Period	Raw steel production, thousand metric tons 1/		Raw steel capability utilization, percent		Continuous cast steel production, percent	
	Monthly	Year to date	Monthly	Year to date	Monthly	Year to date
1997:						
September	8,170	72,700	91.2%	88.8%	95.1%	94.6%
October	8,280	81,000	86.9%	88.6%	94.8%	94.6%
November	8,270	89,300	89.6%	88.7%	95.1%	94.6%
December	8,230	97,500	86.3%	88.5%	95.2%	94.7%
1998:						
January	8,630	8,630	90.0%	90.0%	94.9%	94.9%
February	8,240	16,800	95.2%	92.3%	95.2%	95.1%
March	8,930	25,800	93.1%	92.5%	95.4%	95.2%
April	8,640	34,800	92.5%	93.6%	95.2%	95.2%
May	8,600	43,500	89.1%	92.9%	95.0%	95.2%
June	8,040	51,600	86.1%	91.8%	95.3%	95.2%
July	8,010	59,600	83.0%	90.6%	95.7%	95.3%
August	8,340	68,000	86.4%	90.4%	95.3%	95.3%
September	7,750	75,600	83.0%	89.2%	95.3%	95.2%

1/ Data are rounded to three significant digits.

Source: American Iron and Steel Institute.

TABLE 13  
COMPOSITE PRICES FOR NO. 1 HEAVY MELTING STEEL SCRAP AND PIG IRON

Period	American Metal Market No. 1 HMS		Iron Age No. 1 HMS		Iron Age Pig Iron	
	\$/t	\$/t	\$/t	\$/t	\$/t	\$/t
1997:						
September	132.03	129.95	128.27	126.24	179.76	176.92
October	133.23	131.13	129.92	127.87	179.76	176.92
November	138.33	136.15	134.67	132.54	179.76	176.92
December	138.33	136.15	134.40	132.27	180.66	177.80
Average through December	132.54	130.45	127.82	125.80	175.97	173.19
1998:						
January	138.07	135.89	132.92	130.82	180.88	178.02
February	132.13	130.04	126.71	124.71	180.88	178.02
March	125.33	123.35	120.17	118.27	180.88	178.02
April	124.00	122.04	118.79	116.91	179.48	176.65
May	124.53	122.56	119.99	118.09	175.28	172.51
June	122.76	120.82	118.70	116.83	175.68	172.91
July	118.67	116.80	114.58	112.77	171.92	169.20
August	108.09	106.38	104.53	102.88	171.92	169.20
September	97.93	96.38	93.42	91.94	167.44	164.80
Average through August	121.28	119.36	116.65	114.80	176.04	173.26

Note: Long tons = lt; metric tons = t.