U.S. Department of the Interior • U.S. Geological Survey

# MINERAL INDUSTRY SURVEYS

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## IRON AND STEEL SCRAP IN SEPTEMBER 1997

Estimated consumption of iron and steel scrap on a daily average basis in September 1997 was up 4% compared with that in August 1997, according to the U.S. Geological Survey. Compared with August 1997 data, daily average production rose 4%, net receipts rose slightly, and stocks at the end of the month rose slightly. These observations are based upon responses from 63% of the companies surveyed that manufacture pig iron and semi-finished steel products, which represent 57% of the total scrap consumption in those sectors, and estimates for non-respondents of this survey.

On a daily average basis, pig iron production and consumption rose 5% from that in August 1997. Stocks of pig iron at month's end fell 4% compared with those at the end of August 1997.

Exports of ferrous scrap for the month of July 1997 fell 20% compared with those in June 1997. Korea was the leading principal country of destination, accounting for 47% of the total exports in July 1997, followed by Canada with 18% and Mexico with 14%.

Exports of ferrous scrap for the month of August 1997 rose 6% compared with those in July 1997. Korea was the leading principal country of destination, accounting for 38% of the total exports in August 1997, followed by Mexico with 18% and Canada with 18%.

Table 8 shows that Los Angeles, CA, was the leading customs district for tonnage of exports in July 1997, accounting for 16% of total exports, followed by San Francisco, CA, with 13% and New York, NY, with 12%.

Table 9 shows that New York, NY, was the leading customs district for tonnage of exports in August 1997, accounting for 20% of total exports, followed by Los Angeles, CA, with 17% and Laredo, TX, with 12%.

Table 13 reveals that Detroit, MI, was the leading customs district for tonnage of imports in August 1997, accounting for 34% of the total imports, followed by New Orleans, LA, with 27% and Seattle, WA, with 14%.

According to the American Iron and Steel Institute (AISI), domestic raw steel production in September 1997 amounted to 8,170,000 metric tons, up slightly from 8,000,000 metric tons in August 1997 and up 7% from 7,630,000 metric tons in September 1996. Year-to-date production through September 1997 was 72,700,000 metric tons, up slightly compared with 71,200,000 metric tons for the same period in 1996. The electric furnace portion of raw steel production for September 1997 was 43%, down slightly from that in August 1997, and up slightly from that in September 1996.

Raw steel capability utilization (AISI data) in September 1997 was 91%, up 4% from that in August 1997 and up 3% from that in September 1996. Continuous cast steel production in the United States accounted for 95% of total raw steel production in September 1997 and was unchanged from that in August 1997, while up slightly from that in September 1996. Through September, continuous cast steel production represented 95% of total steel production in 1997 compared with 93% in 1996.

Prepared by the Metals Section and the Data Collection and Coordination Section, November 14, 1997.

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

(Thousand metric tons)

| | September 1997 | | | 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 |
| Scrap: | | | | | | |
| Receipts from dealers and other sources | 710 | 2,600 | 3,400 | 6,500 | 24,000 | 31,000 |
| Receipts from other own company plants | W | W | 220 | W | W | 1,800 |
| Production recirculating scrap | 780 | 430 | 1,200 | 6,700 | 3,800 | 11,000 |
| Production obsolete scrap | 11 | 3 | 14 | 93 | 28 | 120 |
| Consumption (by type of furnace): | | | | | | |
| Blast furnace | 130 | -- | 130 | 1,300 | -- | 1,300 |
| Basic oxygen process | W | W | 1,300 | W | W | 12,000 |
| Electric furnace | W | W | 3,200 | W | W | 29,000 |
| Other (including air furnace) 5/ | (6/) | -- | (6/) | (6/) | -- | (6/) |
| Total consumption | 1,400 | 3,200 | 4,600 | 13,000 | 29,000 | 42,000 |
| Shipments | 140 | 13 | 150 | 1,300 | 110 | 1,400 |
| Stocks end of month | 2,100 | 2,600 | 4,700 | 18,000 | 23,000 | 41,000 |
| Pig iron (includes hot metal): | | | | | | |
| Receipts | 390 | 130 | 520 | 3,000 | 1,200 | 4,200 |
| Production | 4,000 | -- | 4,000 | 37,000 | -- | 37,000 |
| Consumption (by type of furnace): | | | | | | |
| Basic oxygen process | W | W | 4,100 | W | W | 37,000 |
| Direct castings 7/ | (6/) | -- | (6/) | (6/) | -- | (6/) |
| Electric furnace | W | W | 110 | W | W | 1,100 |
| Total consumption | 4,100 | 120 | 4,300 | 37,000 | 1,100 | 38,000 |
| Shipments | (8/) | -- | (8/) | (8/) | -- | (8/) |
| Stocks end of month | W | W | 400 | XX | XX | XX |
| Direct-reduced iron: 9/ | | | | | | |
| Receipts | W | W | 68 | W | W | 820 |
| Consumption (by type of furnace): | | | | | | |
| Blast furnace | 110 | -- | 110 | 990 | -- | 990 |
| Basic oxygen process | (10/) | -- | (10/) | (10/) | -- | (10/) |
| Electric furnace | -- | (8/) | (8/) | -- | (8/) | (8/) |
| Total consumption | 110 | (8/) | 110 | 990 | (8/) | 990 |
| Shipments | -- | -- | -- | (8/) | -- | (8/) |
| Stocks end of month | W | W | 140 | 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 1997 data are based on returns from 63% of monthly respondents, representing 57% of scrap consumption during this month, and estimates for non-respondents of this survey. Year to date data are based on returns from 75% of respondents, representing 63% 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/ Includes vacuum melting furnaces and miscellaneous uses.

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

7/ Includes ingot molds and stools.

8/ Withheld to avoid disclosing company proprietary data.

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."

TABLE 2

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

(Thousand metric tons)

| Item | September 1997 | | | | 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 | 26 | W | 29 | 14 | 290 | W | 280 |
| Cut structural and plate | 300 | 57 | 360 | 300 | 2,700 | 510 | 3,200 |
| No. 1 heavy melting steel | 510 | 310 | 820 | 730 | 4,600 | 2,800 | 7,600 |
| No. 2 heavy melting steel | 410 | 86 | 450 | 570 | 3,700 | 470 | 4,000 |
| No. 1 and electric furnace bundles | 450 | W | 570 | 360 | 3,800 | W | 4,900 |
| No. 2 and all other bundles | 85 | W | 87 | 62 | 840 | W | 880 |
| Electric furnace 1 foot and under (not bundles) | 1 | 13 | W | (4/) | W | W | W |
| Railroad rails | 11 | W | 14 | 8 | 96 | W | 120 |
| Turnings and borings | 160 | 5 | 180 | 120 | 1,500 | 48 | 1,700 |
| Slag scrap | 50 | 120 | 170 | 160 | 550 | 1,000 | 1,700 |
| Shredded and fragmentized | 580 | W | 730 | 480 | 5,200 | W | 6,400 |
| No. 1 busheling | 360 | W | 360 | 250 | 3,000 | W | 3,100 |
| Steel cans (Post consumer) | W | W | W | W | W | W | 440 |
| All other carbon steel scrap | 190 | 230 | 400 | 460 | 1,900 | 2,200 | 3,900 |
| Stainless steel scrap | 47 | 34 | 85 | 44 | 530 | 320 | 860 |
| Alloy steel scrap | 26 | 54 | 74 | 89 | 240 | 490 | 710 |
| Ingot mold and stool scrap | W | W | 8 | 20 | W | W | 71 |
| Machinery and cupola cast iron | W | W | W | 6 | W | W | W |
| Cast iron borings | 17 | W | 18 | W | 170 | W | 170 |
| Motor blocks | W | -- | W | W | W | -- | W |
| Other iron scrap | 34 | 38 | 76 | W | 270 | 370 | 670 |
| Other mixed scrap | 66 | 53 | 110 | W | 730 | 460 | 1,100 |
| Total | 3,400 | 1,200 | 4,600 | 4,700 | 31,000 | 11,000 | 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, 1/
BY REGION AND STATE, FOR STEEL PRODUCERS 2/

(Thousand metric tons)

| Region and State | September 1997 | | | 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/ |
| Mid-Atlantic and New England: | | | | | | |
| New Jersey, New York | 130 | 7 | 140 | 1,100 | 65 | 1,200 |
| Pennsylvania | 320 | 180 | 540 | 2,900 | 1,800 | 4,900 |
| Total | 450 | 190 | 670 | 4,000 | 1,800 | 6,100 |
| North Central: | | | | | | |
| Illinois | 280 | 140 | 380 | 3,000 | 930 | 3,700 |
| Indiana | 290 | 360 | 640 | 2,600 | 3,300 | 5,800 |
| Iowa, Minnesota, Missouri, Nebraska, Wisconsin | 220 | 15 | 200 | 2,000 | 140 | 1,800 |
| Michigan | 160 | 57 | 210 | 1,600 | 540 | 2,100 |
| Ohio | 460 | 160 | 680 | 4,100 | 1,400 | 5,900 |
| Total | 1,400 | 730 | 2,100 | 13,000 | 6,200 | 19,000 |
| South Atlantic: | | | | | | |
| Delaware, Maryland, Virginia, West Virginia | 120 | 77 | 200 | 1,100 | 680 | 1,800 |
| Florida, Georgia, North Carolina, South Carolina | 160 | 14 | 180 | 1,500 | 140 | 1,700 |
| Total | 290 | 90 | 380 | 2,700 | 820 | 3,500 |
| South Central: | | | | | | |
| Alabama, Kentucky, Mississippi, Tennessee | 290 | 61 | 360 | 2,800 | 580 | 3,300 |
| Arkansas, Louisiana, Oklahoma, Texas | 620 | 67 | 760 | 5,100 | 520 | 6,400 |
| Total | 910 | 130 | 1,100 | 7,900 | 1,100 | 9,700 |
| Mountain and Pacific: | | | | | | |
| Arizona, California, Colorado, Oregon, Utah, Washington | 300 | 64 | 360 | 2,700 | 570 | 3,300 |
| Grand total | 3,400 | 1,200 | 4,600 | 31,000 | 11,000 | 42,000 |

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.

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

(Thousand metric tons)

| Item | September 1997 | | | | | 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 | 15 | 10 | W | W | -- | 150 | 120 | W | W | -- |
| Cut structural and plate | 45 | 110 | 59 | 52 | 31 | 400 | 1,000 | 520 | 480 | 260 |
| No. 1 heavy melting steel | 60 | 230 | 25 | 160 | 35 | 460 | 2,000 | 260 | 1,600 | 350 |
| No. 2 heavy melting steel | 18 | 140 | 37 | 160 | 60 | 160 | 1,300 | 340 | 1,400 | 550 |
| No. 1 and electric furnace bundles | 44 | 320 | 28 | 44 | 9 | 390 | 2,700 | 240 | 360 | 73 |
| No. 2 and all other bundles | 8 | 35 | 6 | 26 | 11 | 90 | 370 | 52 | 230 | 95 |
| Electric furnace 1 foot and under (not bundles) | -- | 1 | -- | -- | -- | -- | W | -- | -- | 7 |
| Railroad rails | W | W | -- | 4 | 3 | W | W | -- | 38 | 26 |
| Turnings and borings | 26 | 36 | 19 | 74 | 4 | 260 | 320 | 210 | 670 | 35 |
| Slag scrap | 12 | 19 | W | 11 | 1 | 89 | 230 | W | 100 | 12 |
| Shredded and fragmentized | 54 | 170 | 65 | 210 | 79 | 500 | 1,700 | 580 | 1,700 | 720 |
| No. 1 busheling | 72 | 140 | 28 | 110 | 10 | 590 | 1,300 | 220 | 790 | 96 |
| Steel cans (Post consumer) | W | W | W | W | (5/) | W | W | 21 | W | 3 |
| All other carbon steel scrap | 23 | 120 | 6 | W | 9 | 180 | 1,400 | 45 | 270 | 92 |
| Stainless steel scrap | 38 | 9 | -- | -- | -- | 460 | 63 | -- | -- | -- |
| Alloy steel scrap | 9 | 15 | -- | W | -- | 76 | W | 1 | W | -- |
| Ingot mold and stool scrap | (5/) | W | -- | -- | -- | W | W | -- | W | -- |
| Machinery and cupola cast iron | -- | W | -- | W | (5/) | -- | W | W | W | 1 |
| Cast iron borings | W | W | -- | W | -- | W | W | -- | 64 | -- |
| Motor blocks | (5/) | -- | W | -- | -- | (5/) | -- | W | -- | -- |
| Other iron scrap | W | W | W | 6 | -- | W | W | W | 50 | (5/) |
| Other mixed scrap | W | 8 | W | W | 46 | W | W | W | W | 420 |
| Total | 450 | 1,400 | 290 | 910 | 300 | 4,000 | 13,000 | 2,700 | 7,900 | 2,700 |

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.

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

(Thousand metric tons)

| Item | September 1997 | | | | | 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 | 16 | 11 | W | W | -- | 150 | 110 | W | W | -- |
| Cut structural and plate | 66 | 110 | 88 | 63 | 32 | 540 | 1,000 | 800 | 560 | 260 |
| No. 1 heavy melting steel | 100 | 400 | 46 | 200 | 79 | 860 | 3,600 | 470 | 1,800 | 760 |
| No. 2 heavy melting steel | 27 | 150 | 38 | 160 | 66 | 230 | 1,400 | 340 | 1,500 | 560 |
| No. 1 and electric furnace bundles | 43 | 430 | 33 | 57 | 9 | 420 | 3,600 | 280 | 470 | 73 |
| No. 2 and all other bundles | 8 | 34 | 6 | 28 | 12 | 92 | 390 | 54 | 250 | 96 |
| Electric furnace 1 foot and under (not bundles) | -- | 13 | -- | W | -- | -- | W | -- | W | 7 |
| Railroad rails | W | W | -- | 4 | 3 | W | W | -- | 36 | 26 |
| Turnings and borings | 30 | 45 | 21 | 83 | 4 | 290 | 400 | 210 | 710 | 36 |
| Slag scrap | 19 | 100 | 15 | 35 | 1 | 180 | 1,000 | 180 | 270 | 12 |
| Shredded and fragmentized | 91 | 200 | 77 | 280 | 80 | 820 | 1,800 | 680 | 2,300 | 740 |
| No. 1 busheling | 71 | 140 | 26 | 110 | 9 | 640 | 1,300 | 220 | 810 | 93 |
| Steel cans (Post consumer) | W | W | W | W | (4/) | W | 260 | 17 | W | 3 |
| All other carbon steel scrap | 50 | 260 | 16 | 64 | W | 430 | 2,600 | 150 | 620 | W |
| Stainless steel scrap | 73 | 12 | -- | -- | -- | 770 | 93 | -- | -- | -- |
| Alloy steel scrap | 17 | 53 | -- | W | -- | 170 | 500 | 1 | 33 | -- |
| Ingot mold and stool scrap | W | 2 | -- | W | W | W | 17 | -- | W | W |
| Machinery and cupola cast iron | -- | W | -- | W | (4/) | -- | W | W | W | (4/) |
| Cast iron borings | W | W | -- | 8 | -- | W | W | -- | 64 | -- |
| Motor blocks | (4/) | -- | W | -- | -- | (4/) | -- | W | -- | -- |
| Other iron scrap | 20 | 41 | W | 9 | W | 160 | 360 | W | 90 | W |
| Other mixed scrap | 16 | 35 | W | 12 | 45 | 140 | 420 | W | 110 | 440 |
| Total | 670 | 2,100 | 380 | 1,100 | 360 | 6,100 | 19,000 | 3,500 | 9,700 | 3,300 |

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.

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

(Thousand metric tons and thousand dollars)

| Region and country | July 1997 | | Year to date | |
|---|---|---|---|---|
| | Quantity | Value | Quantity | Value |
| North America and South America: | | | | |
| Canada | 134 | 18,200 | 847 | 106,000 |
| Mexico | 99 | 13,100 | 1,050 | 135,000 |
| Venezuela | 4 | 109 | 44 | 3,470 |
| Other | 2 | 538 | 42 | 6,810 |
| Total | 239 | 32,000 | 1,980 | 251,000 |
| Africa, Europe, and Middle East: | | | | |
| Belgium | 1 | 342 | 1 | 766 |
| Italy | (3/) | 101 | 7 | 2,080 |
| South Africa | 1 | 605 | 11 | 6,300 |
| Spain | 4 | 3,740 | 36 | 27,500 |
| Turkey | -- | -- | 203 | 22,900 |
| Other | 1 | 569 | 20 | 8,700 |
| Total | 7 | 5,360 | 278 | 68,300 |
| Asia, Australia, and Oceania: | | | | |
| Australia | (3/) | 138 | 2 | 1,440 |
| China | 7 | 1,940 | 141 | 26,100 |
| Hong Kong | 7 | 1,590 | 53 | 12,500 |
| India | (3/) | 225 | 54 | 8,620 |
| Japan | 3 | 1,110 | 18 | 9,170 |
| Korea, Republic of | 346 | 54,100 | 1,880 | 285,000 |
| Malaysia | 62 | 7,330 | 203 | 23,700 |
| Pakistan | (3/) | 75 | 1 | 314 |
| Taiwan | 60 | 10,200 | 397 | 63,100 |
| Thailand | -- | -- | 91 | 12,400 |
| Other | 1 | 285 | 103 | 11,900 |
| Total | 486 | 76,900 | 2,950 | 454,000 |
| Grand total | 732 | 114,000 | 5,200 | 774,000 |

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.

Source: Bureau of the Census.

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

(Thousand metric tons and thousand dollars)

| Region and country | August 1997 | | Year to date | |
|---|---|---|---|---|
| | Quantity | Value | Quantity | Value |
| North America and South America: | | | | |
| Canada | 139 | 19,500 | 986 | 125,000 |
| Mexico | 142 | 18,300 | 1,190 | 154,000 |
| Venezuela | 6 | 1,820 | 50 | 5,290 |
| Other | 6 | 906 | 48 | 7,720 |
| Total | 292 | 40,500 | 2,270 | 292,000 |
| Africa, Europe, and Middle East: | | | | |
| Belgium | 1 | 319 | 2 | 1,090 |
| Italy | (3/) | 13 | 7 | 2,100 |
| South Africa | 1 | 825 | 12 | 7,130 |
| Spain | (3/) | 6 | 37 | 27,500 |
| Turkey | 74 | 9,840 | 276 | 32,800 |
| Other | 2 | 1,090 | 22 | 9,790 |
| Total | 78 | 12,100 | 355 | 80,400 |
| Asia, Australia, and Oceania: | | | | |
| Australia | -- | -- | 2 | 1,440 |
| China | 7 | 2,110 | 148 | 28,200 |
| Hong Kong | 7 | 2,260 | 60 | 14,800 |
| India | 1 | 509 | 55 | 9,120 |
| Japan | 2 | 1,310 | 20 | 10,500 |

See footnotes at end of table.

TABLE 7--Continued
U.S. EXPORTS OF IRON AND STEEL SCRAP 1/ BY SELECTED REGION AND COUNTRY 2/

(Thousand metric tons and thousand dollars)

| Region and country | August 1997 | | Year to date | |
|---|---|---|---|---|
| | Quantity | Value | Quantity | Value |
| Asia, Australia, and Oceania--Continued: | | | | |
| Korea, Republic of | 294 | $43,500 | 2,180 | $328,000 |
| Malaysia | 46 | 5,780 | 249 | 29,500 |
| Pakistan | (3/) | 15 | 1 | 329 |
| Taiwan | 46 | 9,600 | 443 | 72,700 |
| Thailand | -- | -- | 91 | 12,400 |
| Other | 1 | 308 | 104 | 12,200 |
| Total | 404 | 65,400 | 3,350 | 519,000 |
| Grand total | 774 | 118,000 | 5,980 | 892,000 |

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.

Source: Bureau of the Census.

TABLE 8
U.S. EXPORTS 1/ OF IRON AND STEEL SCRAP 2/ BY REGION AND SELECTED CUSTOMS DISTRICT 3/

(Thousand metric tons and thousand dollars)

| Region and customs district | July 1997 | | Year to date | |
|---|---|---|---|---|
| | Quantity | Value | Quantity | Value |
| Canadian-U.S. Border: | | | | |
| Buffalo, NY | 18 | 3,830 | 87 | 21,300 |
| Detroit, MI | 25 | 4,310 | 170 | 26,700 |
| Duluth, MN | 2 | 165 | 12 | 1,080 |
| Pembina, ND | 31 | 3,510 | 220 | 20,900 |
| Other 4/ | 51 | 4,220 | 352 | 34,500 |
| Total | 126 | 16,000 | 842 | 104,000 |
| East Coast: | | | | |
| Boston, MA | 62 | 8,090 | 408 | 47,800 |
| Miami, FL | (5/) | 170 | 17 | 2,780 |
| New York, NY | 85 | 13,800 | 746 | 110,000 |
| Norfolk, VA | 22 | 1,980 | 80 | 9,120 |
| Philadelphia, PA | 31 | 3,620 | 199 | 22,000 |
| Portland, ME | 27 | 3,450 | 60 | 7,160 |
| Other | 10 | 2,570 | 239 | 31,300 |
| Total | 237 | 33,700 | 1,750 | 230,000 |
| Gulf Coast & Mexican-U.S. Border (includes Caribbean territories): | | | | |
| Houston-Galveston, TX | 6 | 4,320 | 36 | 22,700 |
| Laredo, TX | 79 | 10,400 | 543 | 70,400 |
| New Orleans, LA | 8 | 6,210 | 46 | 37,800 |
| Tampa, FL | 8 | 1,090 | 189 | 23,800 |
| Other | 5 | 229 | 49 | 4,430 |
| Total | 105 | 22,300 | 862 | 159,000 |
| West Coast: | | | | |
| Honolulu, HI, and Anchorage, AK | (5/) | 34 | 94 | 12,600 |
| Columbia-Snake | 1 | 471 | 58 | 10,000 |
| Los Angeles, CA | 121 | 19,800 | 671 | 114,000 |
| San Diego, CA | 12 | 1,560 | 133 | 16,100 |
| San Francisco, CA | 94 | 14,600 | 557 | 91,600 |
| Seattle, WA | 37 | 5,730 | 237 | 35,900 |
| Total | 265 | 42,300 | 1,750 | 280,000 |
| Grand total | 732 | 114,000 | 5,200 | 774,000 |

1/ Re-export activity for July 1997 amounted to 512 metric tons valued at $73,200; year to date amounted to 20,700 metric tons valued at $2,600,000.

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.

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

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

5/ Less than 1/2 unit.

Source: Bureau of the Census.

TABLE 9
U.S. EXPORTS 1/ OF IRON AND STEEL SCRAP 2/ BY REGION AND SELECTED CUSTOMS DISTRICT 3/

(Thousand metric tons and thousand dollars)

| Region and customs district | August 1997 | | Year to date | |
|---|---|---|---|---|
| | Quantity | Value | Quantity | Value |
| Canadian-U.S. Border: | | | | |
| Buffalo, NY | 23 | 5,150 | 110 | 26,400 |
| Detroit, MI | 28 | 4,670 | 198 | 31,400 |
| Duluth, MN | 1 | 140 | 13 | 1,220 |
| Pembina, ND | 26 | 3,050 | 246 | 24,000 |
| Other 4/ | 60 | 6,220 | 411 | 40,800 |
| Total | 138 | 19,200 | 979 | 124,000 |
| East Coast: | | | | |
| Boston, MA | 66 | 8,750 | 474 | 56,600 |
| Miami, FL | 14 | 2,140 | 31 | 4,920 |
| New York, NY | 158 | 22,100 | 904 | 132,000 |
| Norfolk, VA | 1 | 156 | 81 | 9,280 |
| Philadelphia, PA | 37 | 4,580 | 235 | 26,600 |
| Portland, ME | (5/) | 3 | 60 | 7,160 |
| Other | 4 | 1,040 | 243 | 32,300 |
| Total | 279 | 38,700 | 2,030 | 269,000 |
| Gulf Coast & Mexican-U.S. Border (includes Caribbean territories): | | | | |
| Houston-Galveston, TX | 16 | 8,220 | 52 | 30,900 |
| Laredo, TX | 93 | 11,600 | 636 | 82,000 |
| New Orleans, LA | (5/) | 81 | 46 | 37,800 |
| Tampa, FL | 21 | 2,900 | 210 | 26,700 |
| Other | 5 | 272 | 54 | 4,710 |
| Total | 136 | 23,100 | 998 | 182,000 |
| West Coast: | | | | |
| Honolulu, HI, and Anchorage, AK | (5/) | 27 | 94 | 12,600 |
| Columbia-Snake | 1 | 435 | 58 | 10,500 |
| Los Angeles, CA | 128 | 20,400 | 799 | 134,000 |
| San Diego, CA | 17 | 2,460 | 150 | 18,600 |
| San Francisco, CA | 71 | 12,000 | 627 | 104,000 |
| Seattle, WA | 5 | 1,650 | 242 | 37,500 |
| Total | 222 | 36,900 | 1,970 | 317,000 |
| Grand total | 774 | 118,000 | 5,980 | 892,000 |

1/ Re-export activity for August 1997 amounted to 805 metric tons valued at $154,000; year to date amounted to 21,000 metric tons valued at $2,700,000.

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

Source: Bureau of the Census.

TABLE 10
U.S. EXPORTS OF IRON AND STEEL SCRAP AND OTHER FERROUS PRODUCTS BY GRADE 1/ 2/

(Thousand metric tons and thousand dollars)

| Item | July 1997 | | Year to date | |
|---|---|---|---|---|
| | Quantity | Value | Quantity | Value |
| No. 1 heavy melting steel | 173 | 21,900 | 1,160 | 142,000 |
| No. 2 heavy melting steel | 43 | 5,230 | 294 | 32,900 |
| No. 1 bundles | 8 | 1,000 | 63 | 6,800 |
| No. 2 bundles | 18 | 1,880 | 108 | 10,500 |
| Shredded steel scrap | 138 | 18,900 | 1,270 | 167,000 |
| Borings, shovelings and turnings | 19 | 1,880 | 171 | 14,600 |
| Cut plate and structural | 56 | 7,610 | 466 | 58,800 |
| Tinned iron or steel | 31 | 4,940 | 53 | 12,900 |
| Remelting scrap ingots | -- | -- | (3/) | 358 |
| Cast iron | 76 | 8,450 | 546 | 59,600 |
| Other iron and steel | 58 | 7,630 | 367 | 47,900 |
| Total carbon steel and cast iron | 620 | 79,400 | 4,500 | 553,000 |
| Stainless steel | 40 | 23,600 | 208 | 143,000 |
| Other alloy steel | 72 | 11,300 | 492 | 77,200 |
| Total stainless and alloy steel | 112 | 34,900 | 700 | 220,000 |
| Total carbon, stainless, alloy steel and cast iron | 732 | 114,000 | 5,200 | 774,000 |
| Ships, boats, and other vessels for breaking up (for scrapping) | 1 | 71 | 34 | 3,890 |
| Used rails for rerolling and other uses | 4 | 1,710 | 14 | 6,420 |
| Total scrap exports | 737 | 116,000 | 5,250 | 784,000 |
| Exports of manufactured ferrous products: | | | | |
| Pig iron < or = 0.5% phosphorus | 8 | 1,280 | 29 | 4,960 |
| Pig iron > 0.5% phosphorus | (3/) | 43 | 11 | 1,260 |
| Alloy pig iron | -- | -- | -- | -- |
| Total pig iron | 9 | 1,320 | 40 | 6,230 |
| Direct-reduced iron (DRI) | (3/) | 46 | 2 | 184 |
| Spongy iron products, not DRI | 1 | 386 | 5 | 2,580 |
| Granules for abrasive cleaning and other uses | 2 | 1,760 | 15 | 10,300 |
| Powders of alloy steel | (3/) | 2,060 | 3 | 18,900 |
| Other ferrous powders | 3 | 8,500 | 18 | 43,200 |
| Total DRI, granules and powders | 7 | 12,800 | 43 | 75,200 |
| Grand total | 753 | 130,000 | 5,330 | 865,000 |

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.

Source: Bureau of the Census.

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

(Thousand metric tons and thousand dollars)

| Item | August 1997 | | Year to date | |
|---|---|---|---|---|
| | Quantity | Value | Quantity | Value |
| No. 1 heavy melting steel | 135 | 18,100 | 1,300 | 160,000 |
| No. 2 heavy melting steel | 30 | 3,530 | 324 | 36,400 |
| No. 1 bundles | 6 | 894 | 69 | 7,690 |
| No. 2 bundles | 8 | 938 | 117 | 11,500 |
| Shredded steel scrap | 233 | 31,700 | 1,510 | 198,000 |
| Borings, shovelings and turnings | 17 | 1,650 | 188 | 16,300 |
| Cut plate and structural | 86 | 12,900 | 552 | 71,800 |
| Tinned iron or steel | 3 | 972 | 56 | 13,900 |
| Remelting scrap ingots | (3/) | 166 | 1 | 524 |
| Cast iron | 44 | 5,390 | 590 | 64,900 |
| Other iron and steel | 71 | 9,960 | 438 | 57,800 |
| Total carbon steel and cast iron | 634 | 86,200 | 5,140 | 639,000 |
| Stainless steel | 43 | 16,900 | 250 | 160,000 |
| Other alloy steel | 97 | 14,900 | 590 | 92,100 |
| Total stainless and alloy steel | 140 | 31,800 | 840 | 252,000 |
| Total carbon, stainless, alloy steel and cast iron | 774 | 118,000 | 5,980 | 892,000 |
| Ships, boats, and other vessels for breaking up (for scrapping) | -- | -- | 34 | 3,890 |
| Used rails for rerolling and other uses | 4 | 1,400 | 18 | 7,820 |
| Total scrap exports | 778 | 119,000 | 6,030 | 903,000 |
| Exports of manufactured ferrous products: | | | | |
| Pig iron < or = 0.5% phosphorus | 5 | 808 | 34 | 5,770 |
| Pig iron > 0.5% phosphorus | -- | -- | 11 | 1,260 |
| Alloy pig iron | -- | -- | -- | -- |
| Total pig iron | 5 | 808 | 45 | 7,040 |
| Direct-reduced iron (DRI) | 3 | 294 | 5 | 478 |
| Spongy iron products, not DRI | 2 | 451 | 7 | 3,030 |
| Granules for abrasive cleaning and other uses | 3 | 1,790 | 18 | 12,100 |
| Powders of alloy steel | 1 | 1,980 | 4 | 20,900 |
| Other ferrous powders | 4 | 6,080 | 22 | 49,300 |
| Total DRI, granules and powders | 12 | 10,600 | 55 | 85,800 |
| Grand total | 795 | 131,000 | 6,130 | 996,000 |

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.

Source: Bureau of the Census.

TABLE 12
U.S. IMPORTS FOR CONSUMPTION OF IRON AND STEEL SCRAP 1/ 2/
BY SELECTED COUNTRY

(Thousand metric tons and thousand dollars)

| Country | August 1997 | | Year to date | |
|---|---|---|---|---|
| | Quantity | Value | Quantity | Value |
| Canada | 173 | 22,400 | 1,300 | 170,000 |
| Haiti | 4 | 524 | 6 | 865 |
| Japan | 2 | 313 | 25 | 3,430 |
| Mexico | 9 | 2,540 | 125 | 20,100 |
| United Kingdom | 64 | 9,000 | 203 | 28,600 |
| Other | 3 | 980 | 176 | 20,900 |
| Total | 255 | 35,700 | 1,830 | 244,000 |

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 13
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 1997 | | Year to date | |
|---|---|---|---|---|
| | Quantity | Value | Quantity | Value |
| Buffalo, NY | 35 | 5,480 | 241 | 38,200 |
| Chicago, IL | 2 | 157 | 36 | 4,920 |
| Cleveland, OH | 11 | 863 | 64 | 5,790 |
| Detroit, MI | 87 | 11,600 | 688 | 90,700 |
| El Paso, TX | 4 | 465 | 27 | 3,210 |
| Laredo, TX | 3 | 1,650 | 87 | 13,500 |
| New Orleans, LA | 68 | 9,480 | 325 | 43,700 |
| Ogdensburg, NY | 1 | 382 | 13 | 3,330 |
| Pembina, ND | 3 | 544 | 10 | 3,090 |
| Seattle, WA | 36 | 3,640 | 262 | 27,000 |
| Other | 6 | 1,510 | 79 | 10,500 |
| Total | 255 | 35,700 | 1,830 | 244,000 |

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 14
U.S. IMPORTS OF IRON AND STEEL SCRAP AND OTHER FERROUS PRODUCTS BY GRADE 1/ 2/

(Thousand metric tons and thousand dollars)

| Item | August 1997 | | Year to date | |
|---|---|---|---|---|
| | Quantity | Value | Quantity | Value |
| No. 1 heavy melting steel | 15 | 1,940 | 69 | 8,910 |
| No. 2 heavy melting steel | 1 | 145 | 9 | 1,040 |
| No. 1 bundles | 24 | 3,190 | 184 | 23,400 |
| No. 2 bundles | 7 | 948 | 23 | 2,890 |
| Shredded steel scrap | 58 | 8,040 | 237 | 32,000 |
| Borings, shovelings and turnings | 11 | 1,200 | 95 | 9,950 |
| Cut plate and structural | 4 | 505 | 31 | 4,010 |
| Tinned iron or steel | 1 | 151 | 31 | 4,210 |
| Remelting scrap ingots | 1 | 134 | 41 | 3,210 |
| Cast iron | 19 | 2,450 | 123 | 15,800 |
| Other iron and steel | 79 | 9,910 | 676 | 81,800 |
| Total carbon steel and cast iron | 220 | 28,600 | 1,520 | 187,000 |
| Stainless steel | 5 | 2,530 | 44 | 24,500 |
| Other alloy steel | 30 | 4,600 | 271 | 32,100 |
| Total stainless and alloy steel | 35 | 7,130 | 315 | 56,600 |
| Total carbon, stainless, alloy steel and cast iron | 255 | 35,700 | 1,830 | 244,000 |
| Ships, boats, and other vessels for breaking up (for scrapping) | -- | -- | (3/) | 39 |
| Used rails for rerolling and other uses | 9 | 2,070 | 174 | 36,000 |
| Total scrap imports | 264 | 37,800 | 2,010 | 280,000 |
| Imports of manufactured ferrous products: | | | | |
| Pig iron < or = 0.5% phosphorus | 288 | 45,100 | 1,800 | 260,000 |
| Pig iron > 0.5% phosphorus | -- | -- | -- | -- |
| Alloy pig iron | -- | -- | 18 | 2,550 |
| Total pig iron | 288 | 45,100 | 1,820 | 263,000 |
| Direct-reduced iron (DRI) | 125 | 15,200 | 623 | 78,400 |
| Spongy iron products, not DRI | (3/) | 77 | 26 | 3,200 |
| Granules for abrasive cleaning and other uses | 1 | 681 | 15 | 7,960 |
| Powders of alloy steel | 2 | 2,590 | 15 | 22,300 |
| Other ferrous powders | 6 | 6,290 | 54 | 53,200 |
| Total DRI, granules and powders | 133 | 24,800 | 734 | 165,000 |
| Grand total | 685 | 108,000 | 4,560 | 708,000 |

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 15
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 |
| 1996: | | | | | | |
| September | 7,630 | 71,200 | 87.7% | 90.5% | 93.2% | 93.1% |
| October | 7,900 | 79,300 | 88.0% | 90.4% | 92.9% | 93.1% |
| November | 7,510 | 86,800 | 86.5% | 90.0% | 93.6% | 93.2% |
| December | 7,880 | 94,700 | 87.9% | 89.9% | 94.0% | 93.2% |
| 1997 | | | | | | |
| January | 7,930 | 7,930 | 85.3% | 85.3% | 94.0% | 94.0% |
| February | 7,500 | 15,400 | 89.3% | 85.8% | 94.3% | 94.2% |
| March | 8,320 | 23,800 | 89.6% | 88.3% | 94.4% | 94.2% |
| April | 8,060 | 32,200 | 89.2% | 89.5% | 94.2% | 94.3% |
| May | 8,210 | 40,400 | 87.9% | 89.2% | 94.4% | 94.3% |
| June | 7,860 | 48,300 | 87.0% | 88.8% | 94.3% | 94.3% |
| July | 7,890 | 56,500 | 85.1% | 88.7% | 95.0% | 94.4% |
| August | 8,000 | 64,500 | 86.4% | 88.4% | 94.7% | 94.4% |
| September | 8,170 | 72,700 | 91.2% | 88.8% | 95.1% | 94.6% |

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

Source: American Iron and Steel Institute.

TABLE 16
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 | |
|---|---|---|---|---|---|---|
| | $/lt | $/t | $/lt | $/t | $/lt | $/t |
| 1996: | | | | | | |
| October | 127.49 | 125.47 | 121.58 | 119.65 | NA | NA |
| November | 115.14 | 113.32 | 108.67 | 106.95 | NA | NA |
| December | 116.79 | 114.95 | 109.84 | 108.10 | NA | NA |
| Average through December | 119.81 | 130.60 | 113.36 | 111.57 | NA | NA |
| 1997: | | | | | | |
| January | 127.44 | 125.43 | 120.75 | 118.84 | 169.12 | 166.45 |
| February | 134.04 | 131.92 | 127.50 | 125.49 | 170.29 | 167.60 |
| March | 128.75 | 126.72 | 120.70 | 118.79 | 173.04 | 170.31 |
| April | 123.76 | 121.80 | 118.25 | 116.38 | 170.80 | 168.10 |
| May | 130.08 | 128.03 | 125.80 | 123.81 | 172.48 | 169.76 |
| June | 130.79 | 128.73 | 127.70 | 125.68 | 176.40 | 173.61 |
| July | 136.00 | 133.85 | 131.67 | 129.59 | 179.76 | 176.92 |
| August | 137.67 | 135.49 | 134.25 | 132.13 | 179.76 | 176.92 |
| September | 132.03 | 129.95 | 128.27 | 126.24 | 179.76 | 176.92 |
| October | NA | NA | 129.92 | 127.87 | 179.76 | 176.92 |
| Average through October | NA | NA | 126.48 | 124.48 | 175.12 | 172.35 |

NA Not available.

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