

Mineral Industry Surveys

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IRON AND STEEL SCRAP IN OCTOBER 2016

On a daily average basis in October 2016, iron and steel scrap consumption decreased by 7% and home scrap production decreased by 12% compared with those of September (table 1). Purchased scrap receipts in October 2016 decreased by 12% from that of September. Stocks of purchased and home scrap at the end of October 2016 decreased by 3% from those at the end of September. These observations are based upon responses from about 20% of the companies surveyed that manufacture pig iron and semi-finished steel products, which account for about 30% of the total scrap consumption in those sectors and estimates for nonrespondents to this survey.

On a daily average basis, pig iron production decreased by 7% and consumption decreased by 13% compared with those of September 2016 (table 1). Stocks of pig iron at the end of October 2016 increased slightly from those at the end of September.

Exports of iron and steel scrap in October 2016 increased by 14% from those in September (table 6). Turkey was the leading country of destination, accounting for 23% of the total tonnage of exports, followed by Mexico with 12% and China with 11%. Los Angeles, CA, was the leading U.S. Customs district for tonnage of exports, accounting for 19% of the total, followed by New York, NY, with 17% and San Francisco, CA, with 9% (table 7).

Imports of iron and steel scrap in October 2016 increased by 4% from those in September (table 9). Canada was the leading

country of origin, accounting for 82% of the total tonnage of imports, followed by Sweden with 12% and Mexico, with 5%. Detroit, MI, was the leading U.S. Customs district for tonnage of imports, accounting for 39% of the total, followed by Seattle, WA, with 18% and Buffalo, NY, with 17% (table 10).

The daily average domestic raw steel production for October 2016, as calculated from the American Iron and Steel Institute's (AISI) monthly production data, was 201,000 metric tons, down by 3% from that in September 2016 and down by 5% from that in October 2015 (table 12). Raw steel production capability utilization (AISI data) was 65% in October 2016, down from 68% in September and October 2015 (table 12). The electric furnace portion of raw steel production for October 2016 was 69%, up from 67% in September and up from 65% in October 2015.

Continuous cast steel production accounted for 99.6% of total raw steel production in October 2016, 99.4% in September 2016, and 99.2% in October 2015 (table 12).

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TABLE 1
IRON AND STEEL SCRAP, PIG IRON, AND DIRECT-REDUCED IRON STATISTICS FOR STEEL PRODUCERS^{1,2}

(Thousand metric tons)

| | October 2016 | | | January–October ³ | | |
|--|---|---|---------------------------|---|---|---------------------------|
| | Integrated steel producers ⁴ | Electric furnace steel producers ⁵ | Total for steel producers | Integrated steel producers ⁴ | Electric furnace steel producers ⁵ | Total for steel producers |
| Scrap: | | | | | | |
| Receipts from dealers and other sources | 1,380 | 1,730 | 3,110 | 15,500 | 17,700 | 33,300 |
| Receipts from other own company plants | 45 | 149 | 194 | 446 | 1,490 | 1,940 |
| Production recirculating scrap | 233 | 151 | 384 | 2,480 | 1,900 | 4,380 |
| Production obsolete scrap | W | W | 7 | W | W | 91 |
| Consumption (by type of furnace): | | | | | | |
| Blast furnace | W | W | 157 | W | W | 1,620 |
| Basic oxygen process | W | W | 344 | W | W | 3,650 |
| Electric furnace | 1,150 | 1,740 | 2,890 | 12,600 | 18,200 | 30,900 |
| Other (including air furnace) ⁶ | W | W | 200 | W | W | 2,130 |
| Total consumption | 1,630 | 1,970 | 3,600 | 17,800 | 20,400 | 38,300 |
| Shipments | 49 | 6 | 55 | 537 | 421 | 958 |
| Stocks, end of period | 2,030 | 2,150 | 4,190 | 2,030 | 2,150 | 4,190 |
| Pig iron (includes hot metal): | | | | | | |
| Receipts | 293 | 64 | 357 | 2,000 | 722 | 2,730 |
| Production | 1,260 | -- | 1,260 | 14,400 | -- | 14,400 |
| Consumption (by type of furnace): | | | | | | |
| Basic oxygen process | W | W | 1,450 | W | W | 15,400 |
| Direct castings ⁷ | W | W | 133 | W | W | 1,640 |
| Electric furnace | W | W | 20 | W | W | 197 |
| Total consumption | 1,550 | 55 | 1,600 | 16,600 | 706 | 17,300 |
| Shipments | -- | -- | -- | W | -- | W |
| Stocks, end of period | 272 | 266 | 538 | 272 | 266 | 538 |
| Direct-reduced iron:⁸ | | | | | | |
| Receipts | 80 | 13 | 93 | 1,020 | 540 | 1,560 |
| Total consumption | 336 | 52 | 388 | 3,480 | 512 | 3,990 |
| Stocks, end of period | 207 | 46 | 253 | 207 | 46 | 253 |

W Withheld to avoid disclosing company proprietary data; included in "Total for steel producers" and (or) "Total consumption." -- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes manufacturers of raw steel that also produce steel castings. October 2016 data are based on returns from 20% of consumer surveys, representing 30% of scrap consumption during this month, and estimates for nonrespondents of this survey.

³May include revisions to previously published data.

⁴Includes data for electric furnaces operated by integrated steel producers.

⁵Includes minimill and specialty steel producers; includes data for other furnaces operated by these steel producers.

⁶Includes vacuum melting furnaces and miscellaneous uses.

⁷Includes ingot molds and stools.

⁸Includes direct-reduced iron, hot-briquetted iron, and iron carbide. Domestic production data are included in "Receipts."

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 | October 2016 | | | | January–October 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 ⁴ | 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 ⁴ |
| Carbon steel: | | | | | | | |
| Low-phosphorus plate and punchings | 42 | W | 44 | W | 424 | W | 448 |
| Cut structural and plate | 279 | 20 | 300 | 249 | 2,960 | 234 | 3,230 |
| No. 1 heavy melting steel | 306 | 50 | 356 | 241 | 3,170 | 502 | 3,760 |
| No. 2 heavy melting steel | 343 | 30 | 371 | 217 | 3,600 | 280 | 3,930 |
| No. 1 and electric furnace bundles | 160 | W | 153 | 243 | 1,680 | W | 1,630 |
| No. 2 and all other bundles | 67 | -- | 60 | 43 | 661 | -- | 659 |
| Electric furnace 1 foot and under (not bundles) | W | W | W | W | 4 | W | W |
| Railroad rails | 15 | W | 16 | 7 | 150 | W | 155 |
| Turnings and borings | 164 | 4 | 167 | 116 | 1,800 | 42 | 1,830 |
| Slag scrap | 43 | 62 | 69 | 149 | 435 | 679 | 704 |
| Shredded and fragmented | 859 | W | 960 | 1,550 | 9,570 | W | 10,300 |
| No. 1 busheling | 353 | 19 | 361 | 415 | 3,930 | 181 | 4,110 |
| Steel cans (post consumer) | 7 | -- | 7 | 1 | 71 | -- | 71 |
| All other carbon steel scrap | 203 | 78 | 303 | 357 | 2,080 | 1,170 | 2,970 |
| Stainless steel scrap | 73 | 27 | 108 | 64 | 746 | 265 | 1,120 |
| Alloy steel scrap | 26 | 19 | 46 | 182 | 262 | 193 | 458 |
| Ingot mold and stool scrap | W | W | 8 | 3 | W | W | 87 |
| Machinery and cupola cast iron | W | -- | W | W | W | -- | W |
| Cast iron borings | 13 | W | 13 | 3 | 132 | W | 133 |
| Motor blocks | W | -- | W | W | W | -- | W |
| Other iron scrap | 105 | 26 | 132 | 108 | 1,080 | 267 | 1,360 |
| Other mixed scrap | 51 | 28 | 110 | 112 | 476 | 311 | 1,230 |
| Total | 3,110 | 384 | 3,600 | 4,190 | 33,300 | 4,380 | 38,300 |

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

¹Data are rounded to no more than three significant digits; may not add to totals shown.

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

³May include revisions to previously published data.

⁴Includes recirculating scrap and home-generated obsolete scrap.

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 | October 2016 | | | January–October 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 ⁴ | 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 ⁴ |
| Mid-Atlantic and New England: | | | | | | |
| New Jersey, New York, Pennsylvania | 385 | 61 | 449 | 3,840 | 596 | 4,490 |
| North Central: | | | | | | |
| Illinois and Indiana | 387 | 31 | 425 | 3,990 | 295 | 4,420 |
| Iowa, Minnesota, Nebraska, Wisconsin | 209 | 18 | 232 | 2,080 | 218 | 2,330 |
| Michigan | 148 | 69 | 172 | 1,450 | 804 | 1,910 |
| Ohio | 411 | 86 | 529 | 4,240 | 1,230 | 5,230 |
| Total | 1,160 | 204 | 1,360 | 11,800 | 2,540 | 13,900 |
| South Atlantic: | | | | | | |
| Virginia, West Virginia | 65 | 7 | 97 | 671 | 56 | 1,080 |
| Georgia, North Carolina, South Carolina | 163 | 13 | 203 | 2,540 | 173 | 2,690 |
| Total | 228 | 20 | 300 | 3,210 | 228 | 3,770 |
| South Central: | | | | | | |
| Alabama, Kentucky, Mississippi, Tennessee | 566 | 40 | 615 | 6,360 | 391 | 6,790 |
| Arkansas, Louisiana, Oklahoma, Texas | 530 | 44 | 575 | 5,590 | 447 | 6,250 |
| Total | 1,100 | 83 | 1,190 | 12,000 | 839 | 13,000 |
| Mountain and Pacific: | | | | | | |
| California, Colorado, Oregon, Utah, Washington | 249 | 16 | 297 | 2,500 | 173 | 3,060 |
| Grand total | 3,110 | 384 | 3,600 | 33,300 | 4,380 | 38,300 |

¹Data are rounded to no more than three significant digits; may not add to totals shown.

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

³May include revisions to previously published data.

⁴Includes recirculating scrap and home-generated obsolete scrap.

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

(Thousand metric tons)

| Item | October 2016 | | | | | January–October ⁵ | | | | |
|---|------------------------------------|------------------|-------------------|------------------|----------------------------|------------------------------------|------------------|-------------------|------------------|----------------------------|
| | 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 | 10 | W | -- | W | W | 108 | W | W | W | W |
| Cut structural and plate | 46 | 88 | 17 | 108 | W | 436 | 933 | 269 | 1,120 | W |
| No. 1 heavy melting steel | 72 | 74 | 11 | 124 | 25 | 719 | 793 | 154 | 1,250 | 252 |
| No. 2 heavy melting steel | 11 | 93 | 30 | 177 | 33 | 115 | 915 | 398 | 1,850 | 328 |
| No. 1 and electric furnace bundles | 7 | 111 | 5 | 34 | W | 74 | 1,080 | 45 | 451 | W |
| No. 2 and all other bundles | 10 | 36 | W | W | W | 108 | 355 | W | W | W |
| Electric furnace 1 foot and under (not bundles) | -- | -- | -- | W | -- | -- | W | -- | W | -- |
| Railroad rails | W | W | W | 3 | W | W | W | W | 29 | W |
| Turnings and borings | 24 | 53 | 12 | 68 | 7 | 245 | 583 | 240 | 660 | 68 |
| Slag scrap | 6 | 19 | 1 | W | W | 64 | 190 | 17 | 154 | W |
| Shredded and fragmented | 77 | 255 | 101 | 344 | 82 | 697 | 2,700 | 1,500 | 3,850 | 822 |
| No. 1 busheling | 44 | 151 | 27 | 129 | 2 | 451 | 1,520 | 303 | 1,630 | 21 |
| Steel cans (post consumer) | W | W | W | -- | -- | W | W | W | -- | -- |
| All other carbon steel scrap | 26 | 137 | W | 38 | 3 | 312 | 1,330 | W | 387 | 26 |
| Stainless steel scrap | 35 | 13 | -- | W | -- | 353 | 138 | -- | W | -- |
| Alloy steel scrap | 2 | 22 | W | W | -- | 13 | 224 | W | W | -- |
| Ingot mold and stool scrap | W | W | -- | -- | -- | W | W | -- | -- | -- |
| Machinery and cupola cast iron | -- | W | W | W | -- | -- | W | W | W | -- |
| Cast iron borings | W | W | W | 1 | W | W | W | W | 9 | W |
| Other iron scrap | 5 | 30 | W | 4 | W | 51 | 304 | W | 64 | W |
| Other mixed scrap | W | 25 | W | 4 | W | W | 207 | W | 40 | W |
| Total | 385 | 1,160 | 228 | 1,100 | 249 | 3,840 | 11,800 | 3,210 | 12,000 | 2,500 |

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

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

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

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

⁴Data are rounded to no more than three significant digits; may not add to totals shown.

⁵May include revisions to previously published data.

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

(Thousand metric tons)

| Item | October 2016 | | | | | January–October ⁴ | | | | |
|---|------------------------------------|------------------|-------------------|------------------|----------------------------|------------------------------------|------------------|-------------------|------------------|----------------------------|
| | 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 | 10 | W | W | W | W | 107 | W | W | W | W |
| Cut structural and plate | 50 | 95 | 38 | 96 | W | 459 | 1,020 | 448 | 1,100 | 199 |
| No. 1 heavy melting steel | 77 | 94 | 12 | 146 | 26 | 787 | 1,050 | 184 | 1,480 | 264 |
| No. 2 heavy melting steel | 16 | 96 | 34 | 189 | W | 157 | 962 | 454 | 1,990 | W |
| No. 1 and electric furnace bundles | 7 | 104 | 5 | 33 | W | 74 | 1,090 | 45 | 380 | W |
| No. 2 and all other bundles | 10 | 32 | 1 | 16 | W | 104 | 357 | W | W | W |
| Electric furnace 1 foot and under (not bundles) | -- | W | -- | W | -- | -- | W | -- | W | -- |
| Railroad rails | W | W | -- | 3 | W | W | W | -- | 29 | W |
| Turnings and borings | 26 | 57 | 12 | 64 | 7 | 262 | 604 | 244 | 651 | 68 |
| Slag scrap | 11 | 29 | 1 | 25 | W | 108 | 302 | 21 | 252 | W |
| Shredded and fragmented | 75 | 285 | 140 | 378 | 82 | 691 | 2,910 | 1,720 | 4,150 | 822 |
| No. 1 busheling | 44 | 159 | 29 | 126 | 2 | 450 | 1,620 | 308 | 1,710 | 21 |
| Steel cans (post consumer) | W | W | W | -- | -- | W | W | W | -- | -- |
| All other carbon steel scrap | 43 | 202 | 3 | 52 | 3 | 493 | 1,860 | 60 | 522 | 28 |
| Stainless steel scrap | 53 | 24 | -- | W | -- | 527 | 229 | -- | W | -- |
| Alloy steel scrap | 10 | 28 | -- | W | -- | 97 | 275 | -- | W | -- |
| Ingot mold and stool scrap | W | W | -- | W | -- | W | W | W | W | -- |
| Machinery and cupola cast iron | W | W | W | W | W | -- | W | W | W | -- |
| Cast iron borings | W | W | W | 1 | W | W | W | W | 10 | W |
| Motor blocks | -- | W | -- | -- | -- | -- | W | -- | -- | -- |
| Other iron scrap | 6 | 43 | W | 5 | W | 64 | 449 | W | 73 | W |
| Other mixed scrap | W | 52 | W | 5 | W | W | 549 | W | 40 | W |
| Total | 449 | 1,360 | 300 | 1,190 | 297 | 4,490 | 13,900 | 3,770 | 13,000 | 3,060 |

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

¹Data are rounded to no more than three significant digits; may not add to totals shown.

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

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

⁴May include revisions to previously published data.

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 | October 2016 | | January–October ³ | |
|----------------------------------|--------------|---------|------------------------------|-----------|
| | Quantity | Value | Quantity | Value |
| North America and South America: | | | | |
| Brazil | -- | -- | 22 | 5,910 |
| Canada | 57 | 10,900 | 630 | 111,000 |
| Ecuador | 1 | 157 | 7 | 554 |
| Mexico | 148 | 33,200 | 1,270 | 295,000 |
| Peru | 30 | 6,440 | 334 | 72,600 |
| Other ⁴ | 1 | 109 | 5 | 2,140 |
| Total | 237 | 50,800 | 2,270 | 487,000 |
| Africa, Europe, Middle East: | | | | |
| Belgium | 1 | 1,300 | 7 | 7,620 |
| Egypt | -- | -- | 92 | 23,700 |
| France | -- | -- | 1 | 875 |
| Germany | (5) | 239 | 3 | 2,690 |
| Greece | 55 | 11,400 | 168 | 34,200 |
| Italy | (5) | 188 | 2 | 1,380 |
| Kuwait | -- | -- | 313 | 74,700 |
| Netherlands | 1 | 497 | 7 | 5,900 |
| Saudi Arabia | -- | -- | 49 | 10,500 |
| Sweden | (5) | 189 | 3 | 3,320 |
| Turkey | 282 | 59,700 | 2,580 | 557,000 |
| United Arab Emirates | 1 | 324 | 12 | 4,140 |
| Other ⁴ | (5) | 505 | 7 | 3,150 |
| Total | 341 | 74,400 | 3,250 | 729,000 |
| Asia, Australia, Oceania: | | | | |
| Bangladesh | 34 | 7,360 | 262 | 56,700 |
| China | 130 | 72,300 | 657 | 498,000 |
| Hong Kong | 4 | 2,480 | 36 | 25,000 |
| India | 123 | 33,800 | 894 | 263,000 |
| Indonesia | 4 | 1,700 | 44 | 13,300 |
| Japan | 4 | 3,730 | 22 | 24,700 |
| Korea, Republic of | 100 | 24,900 | 776 | 189,000 |
| Malaysia | 2 | 690 | 25 | 9,210 |
| Pakistan | 30 | 12,200 | 345 | 128,000 |
| Taiwan | 97 | 29,900 | 1,120 | 304,000 |
| Thailand | 38 | 8,340 | 330 | 73,600 |
| Vietnam | 96 | 21,300 | 285 | 65,100 |
| Other ⁴ | (5) | 248 | 2 | 1,130 |
| Total | 662 | 219,000 | 4,790 | 1,650,000 |
| Grand total | 1,240 | 344,000 | 10,300 | 2,870,000 |

-- Zero.

¹Includes 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 basis.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³May include revisions to previously published data.

⁴Includes countries with January–October 2016 quantities of less than 500 metric tons.

⁵Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 7
U.S. EXPORTS OF IRON AND STEEL SCRAP BY REGION AND
SELECTED CUSTOMS DISTRICT^{1,2}

(Thousand metric tons and thousand dollars)

| Region and customs district | October 2016 | | January–October ³ | |
|--|--------------|---------|------------------------------|-----------|
| | Quantity | Value | Quantity | Value |
| Canada–United States border: | | | | |
| Buffalo, NY | 11 | 3,400 | 180 | 31,600 |
| Detroit, MI | 17 | 2,850 | 159 | 32,900 |
| Duluth, MN | (4) | 126 | 6 | 2,910 |
| Great Falls, MT | 1 | 234 | 5 | 1,060 |
| Ogdensburg, NY | (4) | 82 | 12 | 1,550 |
| Pembina, ND | 9 | 1,830 | 80 | 17,400 |
| Other | 11 | 757 | 64 | 9,100 |
| Total | 49 | 9,280 | 505 | 96,500 |
| East coast: | | | | |
| Baltimore, MD | 66 | 18,900 | 241 | 77,500 |
| Boston, MA | 97 | 21,300 | 762 | 172,000 |
| Charleston, SC | 9 | 4,830 | 56 | 32,800 |
| Miami, FL | 31 | 9,000 | 238 | 74,300 |
| New York City, NY | 208 | 54,200 | 1,700 | 472,000 |
| Norfolk, VA | 13 | 9,280 | 164 | 92,900 |
| Philadelphia, PA | 79 | 18,300 | 771 | 173,000 |
| Portland, ME | 7 | 1,570 | 111 | 22,700 |
| Providence, RI | 29 | 5,830 | 443 | 98,100 |
| Savannah, GA | 21 | 5,830 | 102 | 61,100 |
| St. Albans, VT | 1 | 116 | 61 | 5,700 |
| Washington, DC | (4) | 3 | (4) | 28 |
| Wilmington, NC | (4) | 202 | 3 | 3,500 |
| Other | (4) | 1560 | 2 | 2 |
| Total | 560 | 151,000 | 4,650 | 1,290,000 |
| Gulf coast and Mexico–United States border (includes Caribbean territories): | | | | |
| El Paso, TX | 15 | 3,050 | 72 | 16,600 |
| Houston–Galveston, TX | 26 | 11,300 | 241 | 96,300 |
| Laredo, TX | 42 | 9,410 | 398 | 98,700 |
| Mobile, AL | 1 | 317 | 53 | 13,400 |
| New Orleans, LA | 2 | 1,110 | 34 | 14,100 |
| San Juan, PR | 2 | 733 | 88 | 20,200 |
| Tampa, FL | 68 | 16,100 | 196 | 54,400 |
| Other | (4) | 26 | 1 | 73 |
| Total | 156 | 42,100 | 1,080 | 314,000 |
| West coast and Hawaii: | | | | |
| Columbia–Snake, OR | 30 | 6,550 | 407 | 89,900 |
| Honolulu, HI, and Anchorage, AK | 1 | 332 | 77 | 15,400 |
| Los Angeles, CA | 233 | 80,500 | 1,810 | 620,000 |
| San Diego, CA | 33 | 7,960 | 217 | 44,500 |
| San Francisco, CA | 110 | 27,400 | 1,120 | 268,000 |
| Seattle, WA | 66 | 19,200 | 446 | 134,000 |
| Total | 473 | 142,000 | 4,070 | 1,170,000 |
| Grand total | 1,240 | 344,000 | 10,300 | 2,870,000 |

¹Includes 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 basis.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³May include revisions to previously published data.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

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 | October 2016 | | January–October ³ | |
|--|--------------|---------|------------------------------|-----------|
| | Quantity | Value | Quantity | Value |
| No. 1 heavy melting steel | 324 | 74,900 | 2,990 | 672,000 |
| No. 2 heavy melting steel | 46 | 10,600 | 446 | 100,000 |
| No. 1 bundles | 3 | 848 | 84 | 19,200 |
| No. 2 bundles | -- | -- | 6 | 1,260 |
| Shredded steel scrap | 507 | 110,000 | 3,500 | 787,000 |
| Borings, shovelingen and turnings | (4) | 106 | 5 | 1,180 |
| Cut plate and structural | 59 | 15,000 | 454 | 120,000 |
| Tinned iron or steel | 6 | 1,420 | 43 | 12,100 |
| Remelting scrap ingots | (4) | 164 | 7 | 5,390 |
| Cast iron | 18 | 5,950 | 115 | 43,700 |
| Other iron and steel | 151 | 52,700 | 1,470 | 466,000 |
| Total carbon steel and cast iron | 1,110 | 272,000 | 9,120 | 2,230,000 |
| Stainless steel | 39 | 36,300 | 562 | 354,000 |
| Other alloy steel | 86 | 35,800 | 630 | 286,000 |
| Total stainless and alloy steel | 125 | 72,100 | 1,190 | 640,000 |
| Total carbon, stainless, alloy steel and cast iron | 1,240 | 344,000 | 10,300 | 2,870,000 |
| Ships, boats, and other vessels for breaking up (for scrapping) | -- | -- | 2 | 415 |
| Used rails for rerolling and other uses | 1 | 960 | 13 | 15,900 |
| Total scrap exports | 1,240 | 345,000 | 10,300 | 2,880,000 |
| Exports of manufactured ferrous products: | | | | |
| Pig iron < or = 0.5% phosphorus | 3 | 780 | 7 | 1,870 |
| Pig iron > or = 0.5% phosphorus | -- | -- | 2 | 272 |
| Alloy pig iron | -- | -- | 21 | 25 |
| Total pig iron | 3 | 780 | 30 | 2,170 |
| Direct-reduced iron (DRI) | -- | -- | 87 | 322 |
| Spongy iron products, not DRI | (4) | 299 | 1 | 1,530 |
| Granules for abrasive cleaning and other uses | 2 | 2,680 | 24 | 30,800 |
| Powders of alloy steel | 2 | 4,060 | 19 | 47,200 |
| Other ferrous powders | 8 | 8,830 | 77 | 84,000 |
| Total DRI, granules, powders | 12 | 15,900 | 208 | 164,000 |
| Grand total | 1,260 | 362,000 | 10,600 | 3,050,000 |

-- Zero.

¹Export valuation is on a free-alongside-ship basis.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³May include revisions to previously published data.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 9
U.S. IMPORTS FOR CONSUMPTION OF IRON AND STEEL SCRAP
BY SELECTED COUNTRY^{1,2}

(Thousand metric tons and thousand dollars)

| Country | October 2016 | | January–October ³ | |
|--------------------|--------------|--------|------------------------------|---------|
| | Quantity | Value | Quantity | Value |
| Canada | 216 | 51,300 | 2,310 | 542,000 |
| China | (4) | 96 | 3 | 951 |
| France | (4) | 115 | 1 | 275 |
| Germany | (4) | 48 | 29 | 6,240 |
| India | (4) | 140 | 1 | 480 |
| Japan | (4) | 177 | 1 | 701 |
| Mexico | 13 | 6,600 | 192 | 77,900 |
| Netherlands | -- | -- | 180 | 39,700 |
| Sweden | 31 | 7,140 | 260 | 61,700 |
| United Kingdom | (4) | 3 | 329 | 76,100 |
| Other ⁵ | 1 | 321 | 8 | 4,230 |
| Total | 262 | 66,000 | 3,320 | 810,000 |

-- Zero.

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

²Data are rounded to no more than three significant digits; may not add to totals shown.

³May include revisions to previously published data.

⁴Less than ½ unit.

⁵Includes countries with January–October 2016 quantities of less than 500 metric tons.

Source: U.S. Census Bureau.

TABLE 10
U.S. IMPORTS FOR CONSUMPTION OF IRON AND STEEL SCRAP
BY SELECTED CUSTOMS DISTRICT^{1,2}

(Thousand metric tons and thousand dollars)

| Customs district | October 2016 | | January–October ³ | |
|------------------|--------------|--------|------------------------------|---------|
| | Quantity | Value | Quantity | Value |
| Baltimore, MD | -- | -- | 1 | 225 |
| Buffalo, NY | 45 | 15,600 | 369 | 120,000 |
| Charleston, SC | (4) | 74 | 279 | 62,400 |
| Cleveland, OH | (4) | 62 | 20 | 1,290 |
| Detroit, MI | 103 | 24,000 | 1,120 | 274,000 |
| Duluth, MN | 6 | 1,250 | 80 | 17,600 |
| El Paso, TX | 2 | 746 | 23 | 7,520 |
| Galveston, TX | (4) | 228 | 2 | 1,530 |
| Great Falls, MT | 1 | 308 | 26 | 5,440 |
| Laredo, TX | 6 | 3,700 | 118 | 50,700 |
| Los Angeles, LA | (4) | 130 | 1 | 811 |
| Mobile, AL | 3 | 1,450 | 130 | 34,400 |
| New Orleans, LA | 31 | 7,170 | 416 | 98,900 |
| Nogales, AZ | 1 | 195 | 7 | 2,070 |
| Ogdensburg, NY | 1 | 247 | 15 | 4,030 |
| Pembina, ND | 8 | 1,670 | 143 | 29,100 |
| Portland, ME | 1 | 287 | 4 | 1,470 |
| San Diego, CA | 1 | 539 | 17 | 6,180 |
| Seattle, WA | 47 | 7,440 | 504 | 83,600 |
| St. Albans, VT | 3 | 640 | 32 | 6,030 |
| Other | 3 | 306 | 7 | 2,630 |
| Total | 262 | 66,000 | 3,320 | 810,000 |

-- Zero.

¹Includes 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.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³May include revisions to previously published data.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

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 | October 2016 | | January–October ³ | |
|--|--------------|---------|------------------------------|-----------|
| | Quantity | Value | Quantity | Value |
| No. 1 heavy melting steel | 13 | 2,440 | 126 | 23,800 |
| No. 2 heavy melting steel | 6 | 1,210 | 82 | 16,500 |
| No. 1 bundles | 50 | 10,900 | 906 | 212,000 |
| No. 2 bundles | 3 | 572 | 61 | 13,500 |
| Shredded steel scrap | 64 | 13,200 | 603 | 125,000 |
| Borings, shovelings and turnings | 3 | 546 | 37 | 6,040 |
| Cut plate and structural | 11 | 1,980 | 154 | 30,700 |
| Tinned iron or steel | 8 | 1,450 | 71 | 13,300 |
| Remelting scrap ingots | -- | -- | (4) | 80 |
| Cast iron | 6 | 1,430 | 129 | 23,100 |
| Other iron and steel | 34 | 6,290 | 399 | 75,300 |
| Total carbon steel and cast iron | 199 | 40,100 | 2,570 | 539,000 |
| Stainless steel | 20 | 16,300 | 224 | 151,000 |
| Other alloy steel | 43 | 9,670 | 524 | 120,000 |
| Total stainless and alloy steel | 63 | 25,900 | 748 | 271,000 |
| Total carbon, stainless, alloy steel and cast iron | 262 | 66,000 | 3,320 | 810,000 |
| Ships, boats, and other vessels for breaking up (for scrapping) | (4) | 4 | (4) | 503 |
| Used rails for rerolling and other uses | 7 | 1,650 | 69 | 17,000 |
| Total scrap imports | 269 | 67,600 | 3,390 | 827,000 |
| Imports of manufactured ferrous products: | | | | |
| Pig iron < or = 0.5% phosphorus | 177 | 44,000 | 3,450 | 835,000 |
| Pig iron > or = 0.5% phosphorus | -- | -- | (4) | 21 |
| Alloy pig iron | -- | -- | (4) | 365 |
| Total pig iron | 177 | 44,000 | 3,450 | 835,000 |
| Direct-reduced iron (DRI) | 149 | 34,400 | 1,390 | 282,000 |
| Spongy iron products, not DRI | (4) | 386 | 2 | 3,560 |
| Granules for abrasive cleaning and other uses | 3 | 2,400 | 49 | 25,000 |
| Powders of alloy steel | 6 | 8,110 | 56 | 74,000 |
| Other ferrous powders | 4 | 6,320 | 39 | 59,900 |
| Total DRI, granules, powders | 163 | 51,600 | 1,540 | 444,000 |
| Grand total | 609 | 163,000 | 8,370 | 2,110,000 |

-- Zero.

¹Import valuation is on a Customs basis.

²Data are rounded to no more than three significant digits; may not add to totals shown.

³May include revisions to previously published data.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 12
U.S. RAW STEEL PRODUCTION, RAW STEEL CAPABILITY UTILIZATION,
AND CONTINUOUS CAST STEEL PRODUCTION¹

| Period | Raw steel production, thousand metric tons | | Raw steel capability utilization, percent | | Continuous cast steel production, percent | |
|-----------|---|------------------------------|--|------------------------------|--|------------------------------|
| | Monthly | Year to date ² | Monthly | Year to date ² | Monthly | Year to date ² |
| | | | | | | |
| 2015: | | | | | | |
| October | 6,550 | 67,100 | 68.1 | 71.7 | 99.2 | 99.0 |
| November | 5,830 | 72,900 | 62.7 | 70.9 | 99.1 | 99.0 |
| December | 5,960 | 78,800 | 62.1 | 70.1 | 99.3 | 99.0 |
| 2016: | | | | | | |
| January | 6,460 | 6,460 | 68.7 | 68.7 | 99.2 | 99.2 |
| February | 6,420 | 12,900 | 73.1 | 70.8 | 99.2 | 99.2 |
| March | 6,770 | 19,700 | 72.1 | 71.3 | 99.2 | 99.2 |
| April | 6,600 | 26,300 | 72.6 | 71.6 | 99.2 | 99.2 |
| May | 6,980 | 33,200 | 74.3 | 72.1 | 99.6 | 99.3 |
| June | 6,820 | 40,100 | 75.1 | 72.6 | 99.2 | 99.3 |
| July | 6,700 | 46,800 | 71.3 | 72.4 | 99.5 | 99.3 |
| August | 6,650 | 53,400 | 70.8 | 72.2 | 99.7 | 99.3 |
| September | 6,190 | 59,600 | 68.0 | 71.8 | 99.4 | 99.4 |
| October | 6,230 | 65,800 | 65.4 | 71.1 | 99.6 | 99.4 |

¹Data are rounded to no more than three significant digits.

²May include revisions to previously published data.

Source: American Iron and Steel Institute.

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

| Period | American Metal Market | | Scrap Price Bulletin | | | |
|---------------------------|-----------------------|--------|----------------------|--------|-----------------------|--------|
| | No. 1 HMS | | No. 1 HMS | | Pig Iron ¹ | |
| | \$/t | \$/t | \$/t | \$/t | \$/t | \$/t |
| 2015: | | | | | | |
| October | 162.94 | 160.37 | 164.17 | 161.58 | 297.18 | 292.49 |
| November | 141.81 | 139.57 | 146.57 | 144.26 | 297.18 | 292.19 |
| December | 142.03 | 139.79 | 149.75 | 147.38 | 276.86 | 272.49 |
| Average, January–December | 216.90 | 213.47 | 221.44 | 217.94 | 321.31 | 316.21 |
| 2016: | | | | | | |
| January | 154.87 | 152.42 | 160.17 | 157.64 | 237.54 | 233.79 |
| February | 157.33 | 154.85 | 163.50 | 160.92 | 218.54 | 215.09 |
| March | 169.00 | 166.33 | 173.25 | 170.51 | 218.54 | 215.09 |
| April | 210.01 | 206.69 | 209.75 | 206.44 | 254.00 | 249.99 |
| May | 241.27 | 237.46 | 245.83 | 241.95 | 299.72 | 294.99 |
| June | 223.21 | 219.68 | 221.42 | 217.92 | 299.72 | 294.99 |
| July | 208.40 | 205.11 | 211.42 | 208.08 | 295.91 | 291.24 |
| August | 208.90 | 205.60 | 209.84 | 206.53 | 292.10 | 287.49 |
| September | 196.64 | 193.53 | 197.67 | 194.55 | 275.59 | 271.24 |
| October | 179.20 | 176.37 | 178.84 | 176.01 | 268.22 | 263.99 |

¹Prices are Brazilian basic pig iron, f.o.b. New Orleans, LA.

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