

# Mineral Industry Surveys

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## IRON AND STEEL SCRAP IN SEPTEMBER 2013

On a daily average basis in September 2013, estimated consumption of iron and steel scrap increased by 4%, net receipts of purchased scrap increased by 19%, and home scrap production increased by 31% from that of August 2013. Stocks of purchased and home scrap at the end of September increased by 21% from those at the end of August. These observations are based upon responses from about 33% of the companies surveyed that manufacture pig iron and semifinished steel products, which account for about 41% 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 43%, and consumption increased slightly in September 2013 from those in August 2013. Stocks of pig iron at the end of September decreased by 5% from those at the end of August.

Exports of iron and steel scrap in September 2013 decreased by 9% from those of August 2013. Turkey was the leading country of destination, accounting for 32% of the total tonnage of exports, followed by the Republic of Korea with 20% and Taiwan with 17% (table 6). Los Angeles, CA, was the leading U.S. Customs district for tonnage of exports, accounting for 27% of the total, followed by New York, NY, with 18%, and Philadelphia, PA, with 9% (table 7).

Imports of iron and steel scrap for September 2013 increased by 11% from those of August 2013. Canada was the leading country of origin, accounting for 79% of the total tonnage of imports, followed by the United Kingdom with 11%, and Mexico with 7% (table 9). Detroit, MI, was the leading U.S. Customs district for tonnage of imports, accounting for 27% of the total, followed by Seattle, WA, with 23% and Buffalo, NY, with 20% (table 10).

The daily average domestic raw steel production for September 2013, as calculated from the American Iron and Steel Institute's (AISI) monthly production data, was 243,000 metric tons, up slightly from that in August 2013 and 7% higher than that in September 2012 (table 12). The electric furnace portion of raw steel production for September 2013 was 60%, down from 61% in August 2013 and the same as that in September 2012.

Raw steel production capability utilization (AISI data) in September 2013 was 78%, the same as that in August 2013 and up from 70% in September 2012 (table 12). Continuous cast steel production in September 2013 accounted for 99% of total raw steel production, the same as that in August 2013 and up from 98% in September 2012.

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

(Thousand metric tons)

|  | September 2013                          |   |                           | January–September <sup>3</sup>          |   |                           |
|--|---|---|---------------------------|---|---|---------------------------|
|  | Integrated steel producers <sup>4</sup> | Electric furnace steel producers <sup>5</sup> | Total for steel producers | Integrated steel producers <sup>4</sup> | Electric furnace steel producers <sup>5</sup> | Total for steel producers |
| <b>Scrap:</b>                              |   |   |                           |   |   |                           |
| Receipts from dealers and other sources    | 2,400                                   | 1,970   | 4,370                     | 16,500                                  | 17,400  | 33,900                    |
| Receipts from other own company plants     | 35                                      | 202   | 237                       | 358                                     | 1,790   | 2,150                     |
| Production recirculating scrap             | 444                                     | 177   | 621                       | 3,110                                   | 1,610   | 4,720                     |
| Production obsolete scrap                  | W                                       | W   | 9                         | W                                       | W   | 81                        |
| <b>Consumption (by type of furnace):</b>   |   |   |                           |   |   |                           |
| Blast furnace                              | W                                       | W   | W                         | W                                       | W   | W                         |
| Basic oxygen process                       | W                                       | W   | 578                       | W                                       | W   | 5,440                     |
| Electric furnace                           | 1,310                                   | 2,080   | 3,390                     | 11,600                                  | 19,000  | 30,500                    |
| Other (including air furnace) <sup>6</sup> | W                                       | W   | W                         | W                                       | W   | W                         |
| Total consumption                          | 2,070                                   | 2,370   | 4,440                     | 18,400                                  | 20,800  | 39,200                    |
| Shipments                                  | 95                                      | 16  | 111                       | 864                                     | 143   | 1,010                     |
| Stocks, end of period                      | 2,540                                   | 1,750   | 4,290                     | 2,540                                   | 1,750   | 4,290                     |
| <b>Pig iron (includes hot metal):</b>      |   |   |                           |   |   |                           |
| Receipts                                   | 1,380                                   | 65  | 1,440                     | 4,840                                   | 655   | 5,490                     |
| Production                                 | 1,240                                   | --  | 1,240                     | 18,300                                  | --  | 18,300                    |
| <b>Consumption (by type of furnace):</b>   |   |   |                           |   |   |                           |
| Basic oxygen process                       | W                                       | W   | 2,480                     | W                                       | W   | 22,100                    |
| Direct castings <sup>7</sup>               | W                                       | --  | W                         | W                                       | --  | W                         |
| Electric furnace                           | W                                       | W   | W                         | W                                       | W   | W                         |
| Total consumption                          | 2,620                                   | 72  | 2,690                     | 23,200                                  | 654   | 23,800                    |
| Shipments                                  | W                                       | W   | W                         | W                                       | W   | W                         |
| Stocks, end of period                      | 151                                     | 195   | 346                       | 151                                     | 195   | 346                       |
| <b>Direct-reduced iron:<sup>8</sup></b>    |   |   |                           |   |   |                           |
| Receipts                                   | 83                                      | 64  | 147                       | 1,080                                   | 496   | 1,580                     |
| Total consumption                          | 337                                     | 72  | 409                       | 2,870                                   | 518   | 3,390                     |
| Stocks, end of period                      | 98                                      | 38  | 136                       | 98                                      | 38  | 136                       |

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

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

<sup>2</sup>Includes manufacturers of raw steel that also produce steel castings. September 2013 data are based on returns from 33% of consumer surveys, representing 41% of scrap consumption during this month, and estimates for nonrespondents of this survey.

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Includes data for electric furnaces operated by integrated steel producers.

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

<sup>6</sup>Includes vacuum melting furnaces and miscellaneous uses.

<sup>7</sup>Includes ingot molds and stools.

<sup>8</sup>Includes 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<sup>1,2</sup>

(Thousand metric tons)

| Item  | September 2013   |  |  |               | January–September <sup>p,3</sup>                                   |  |  |
|---|--|--|--|---------------|--|--|--|
|   | 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 <sup>4</sup> | 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 <sup>4</sup> |
| Carbon steel:                                   |  |  |  |               |  |  |  |
| Low-phosphorus plate and punchings              | 55   | W  | 58   | W             | 522  | W  | 545  |
| Cut structural and plate                        | 321  | 32   | 343  | 294           | 2,820  | 250  | 3,080  |
| No. 1 heavy melting steel                       | 387  | 53   | 437  | 304           | 3,410  | 468  | 3,980  |
| No. 2 heavy melting steel                       | 474  | 29   | 504  | 357           | 4,140  | 259  | 4,460  |
| No. 1 and electric furnace bundles              | 204  | W  | 275  | 299           | 1,890  | W  | 2,560  |
| No. 2 and all other bundles                     | 89   | W  | 102  | 41            | 872  | W  | 912  |
| Electric furnace 1 foot and under (not bundles) | 3  | W  | W  | W             | 21   | W  | W  |
| Railroad rails                                  | 28   | --   | 31   | 12            | 248  | --   | 256  |
| Turnings and borings                            | 198  | 3  | 208  | 141           | 1,700  | 29   | 1,860  |
| Slag scrap                                      | 66   | 80   | 94   | 122           | 569  | 741  | 868  |
| Shredded and fragmented                         | 1,090  | W  | 1,220  | 1,030         | 9,360  | W  | 10,300   |
| No. 1 busheling                                 | 963  | 116  | 403  | 1,010         | 4,020  | 219  | 3,590  |
| Steel cans (post consumer)                      | 9  | --   | 11   | 2             | 93   | --   | 93   |
| All other carbon steel scrap                    | 254  | 108  | 352  | 172           | 2,200  | 907  | 3,160  |
| Stainless steel scrap                           | 73   | 27   | 110  | 48            | 659  | 244  | 988  |
| Alloy steel scrap                               | 35   | 21   | 58   | W             | 286  | 189  | 524  |
| Ingot mold and stool scrap                      | W  | W  | 6  | 14            | W  | W  | 59   |
| Machinery and cupola cast iron                  | W  | W  | W  | W             | W  | W  | W  |
| Cast iron borings                               | W  | W  | W  | W             | W  | W  | W  |
| Other iron scrap                                | 59   | 20   | 75   | W             | 493  | 200  | 639  |
| Other mixed scrap                               | 43   | 31   | 126  | 69            | 413  | 306  | 1,110  |
| Total   | 4,370  | 621  | 4,440  | 4,290         | 33,900   | 4,720  | 39,200   |

<sup>p</sup>Preliminary. W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.

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

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

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Includes 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<sup>1,2</sup>

(Thousand metric tons)

| Region and State  | September 2013   |  |  | January–September <sup>p,3</sup>                                   |  |  |
|---|--|--|--|--|--|--|
|   | 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 <sup>4</sup> | 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 <sup>4</sup> |
| <b>Mid-Atlantic and New England:</b>                    |  |  |  |  |  |  |
| New Jersey, New York, Pennsylvania                      | 404  | 60   | 503  | 3,580  | 567  | 4,530  |
| <b>North Central:</b>                                   |  |  |  |  |  |  |
| Illinois and Indiana                                    | 489  | 144  | 605  | 4,140  | 1,270  | 5,350  |
| Iowa, Minnesota, Nebraska, Wisconsin                    | 240  | 12   | 266  | 2,160  | 100  | 2,360  |
| Michigan  | 161  | 92   | 210  | 1,470  | 862  | 1,860  |
| Ohio  | 456  | 79   | 525  | 4,070  | 715  | 4,860  |
| Total   | 1,350  | 327  | 1,610  | 11,900   | 2,950  | 14,400   |
| <b>South Atlantic:</b>                                  |  |  |  |  |  |  |
| Delaware, Virginia, West Virginia                       | 119  | 8  | 146  | 1,070  | 64   | 1,360  |
| Georgia, North Carolina, South Carolina                 | 368  | 21   | 387  | 3,090  | 153  | 3,220  |
| Total   | 486  | 29   | 533  | 4,150  | 217  | 4,590  |
| <b>South Central:</b>                                   |  |  |  |  |  |  |
| Alabama, Kentucky, Mississippi, Tennessee               | 1,330  | 133  | 776  | 6,860  | 373  | 6,750  |
| Arkansas, Louisiana, Oklahoma, Texas                    | 540  | 50   | 690  | 5,060  | 413  | 5,920  |
| Total   | 1,870  | 183  | 1,470  | 11,900   | 786  | 12,700   |
| <b>Mountain and Pacific:</b>                            |  |  |  |  |  |  |
| Arizona, California, Colorado, Oregon, Utah, Washington | 265  | 23   | 333  | 2,430  | 209  | 3,040  |
| Grand total   | 4,370  | 621  | 4,440  | 33,900   | 4,720  | 39,200   |

<sup>p</sup>Preliminary.

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

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

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Includes recirculating scrap and home-generated obsolete scrap.

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

(Thousand metric tons)

| Item  | September 2013                     |                  |                   |                  |                            | January–September <sup>p, 5</sup>  |                  |                   |                  |                            |
|---|------------------------------------|------------------|-------------------|------------------|----------------------------|------------------------------------|------------------|-------------------|------------------|----------------------------|
|   | Mid-Atlantic<br>and<br>New England | North<br>Central | South<br>Atlantic | South<br>Central | Mountain<br>and<br>Pacific | Mid-Atlantic<br>and<br>New England | North<br>Central | South<br>Atlantic | South<br>Central | Mountain<br>and<br>Pacific |
| Carbon steel:                                   |                                    |                  |                   |                  |                            |                                    |                  |                   |                  |                            |
| Low-phosphorus plate and punchings              | 19                                 | W                | --                | W                | W                          | 173                                | 289              | W                 | W                | W                          |
| Cut structural and plate                        | 37                                 | 101              | 39                | 125              | W                          | 354                                | 878              | 330               | 1,080            | W                          |
| No. 1 heavy melting steel                       | 67                                 | 103              | 33                | 138              | 47                         | 554                                | 893              | 319               | 1,220            | 421                        |
| No. 2 heavy melting steel                       | 10                                 | 168              | 54                | 188              | 54                         | 88                                 | 1,360            | 488               | 1,710            | 498                        |
| No. 1 and electric furnace bundles              | 9                                  | 136              | 5                 | 31               | W                          | 81                                 | 1,260            | 40                | 306              | W                          |
| No. 2 and all other bundles                     | 11                                 | 31               | W                 | 15               | W                          | 91                                 | 320              | W                 | 140              | W                          |
| Electric furnace 1 foot and under (not bundles) | --                                 | W                | --                | W                | --                         | --                                 | W                | --                | W                | --                         |
| Railroad rails                                  | W                                  | 14               | --                | 6                | W                          | W                                  | W                | --                | W                | W                          |
| Turnings and borings                            | 13                                 | 66               | 27                | 84               | 8                          | 132                                | 519              | 259               | 718              | 75                         |
| Slag scrap                                      | 6                                  | 40               | 3                 | W                | W                          | 50                                 | 332              | 25                | W                | W                          |
| Shredded and fragmentized                       | 87                                 | 267              | 223               | 437              | 74                         | 721                                | 2,400            | 1,780             | 3,770            | 678                        |
| No. 1 busheling                                 | 55                                 | 149              | 36                | 722              | 1                          | 508                                | 1,350            | 319               | 1,830            | 14                         |
| Steel cans (post consumer)                      | W                                  | W                | --                | --               | --                         | W                                  | W                | --                | --               | W                          |
| All other carbon steel scrap                    | 42                                 | 137              | 17                | 55               | 2                          | 377                                | 1,160            | 145               | 498              | 23                         |
| Stainless steel scrap                           | W                                  | 12               | --                | W                | --                         | W                                  | 111              | --                | W                | --                         |
| Alloy steel scrap                               | 1                                  | 30               | --                | W                | --                         | 6                                  | 242              | --                | 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                 | --               | W                          | W                                  | W                | W                 | --               | W                          |
| Other iron scrap                                | W                                  | 39               | W                 | 13               | W                          | W                                  | 351              | 16                | 89               | W                          |
| Other mixed scrap                               | W                                  | W                | W                 | 2                | W                          | W                                  | W                | W                 | 27               | W                          |
| Total   | 404                                | 1,350            | 486               | 1,870            | 265                        | 3,580                              | 11,900           | 4,150             | 11,900           | 2,430                      |

<sup>p</sup>Preliminary. W Withheld to avoid disclosing company proprietary data; included in "Total." -- Zero.

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

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

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

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

<sup>5</sup>May include revisions to previously published data.

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

(Thousand metric tons)

| Item  | September 2013                     |                  |                   |                  |                            | January–September <sup>4</sup>     |                  |                   |                  |                            |
|---|------------------------------------|------------------|-------------------|------------------|----------------------------|------------------------------------|------------------|-------------------|------------------|----------------------------|
|   | Mid-Atlantic<br>and<br>New England | North<br>Central | South<br>Atlantic | South<br>Central | Mountain<br>and<br>Pacific | Mid-Atlantic<br>and<br>New England | North<br>Central | South<br>Atlantic | South<br>Central | Mountain<br>and<br>Pacific |
| Carbon steel:                                   |                                    |                  |                   |                  |                            |                                    |                  |                   |                  |                            |
| Low-phosphorus plate and punchings              | 20                                 | W                | W                 | W                | W                          | 178                                | W                | W                 | W                | W                          |
| Cut structural and plate                        | 40                                 | 108              | 58                | 120              | W                          | 365                                | 991              | 473               | 1,080            | W                          |
| No. 1 heavy melting steel                       | 75                                 | 123              | 32                | 155              | 51                         | 661                                | 1,120            | 305               | 1,430            | 464                        |
| No. 2 heavy melting steel                       | 14                                 | 165              | 54                | 209              | 63                         | 126                                | 1,400            | 494               | 1,860            | 575                        |
| No. 1 and electric furnace bundles              | 21                                 | 192              | 5                 | 31               | W                          | 189                                | 1,790            | 41                | 298              | W                          |
| No. 2 and all other bundles                     | 11                                 | 33               | W                 | 17               | W                          | 90                                 | 313              | W                 | 152              | W                          |
| Electric furnace 1 foot and under (not bundles) | --                                 | W                | --                | W                | --                         | --                                 | W                | --                | W                | --                         |
| Railroad rails                                  | W                                  | 14               | --                | 9                | W                          | W                                  | W                | --                | W                | W                          |
| Turnings and borings                            | 29                                 | 63               | 29                | 80               | 8                          | 272                                | 542              | 256               | 715              | 76                         |
| Slag scrap                                      | 10                                 | 55               | 3                 | 25               | W                          | 86                                 | 513              | 22                | 228              | W                          |
| Shredded and fragmentized                       | 80                                 | 297              | 237               | 529              | 74                         | 712                                | 2,620            | 2,000             | 4,270            | 678                        |
| No. 1 busheling                                 | 55                                 | 159              | 37                | 151              | 1                          | 511                                | 1,440            | 321               | 1,310            | 14                         |
| Steel cans (post consumer)                      | W                                  | W                | --                | --               | --                         | W                                  | W                | --                | --               | --                         |
| All other carbon steel scrap                    | 67                                 | 186              | 22                | 75               | 3                          | 595                                | 1,710            | 186               | 646              | 25                         |
| Stainless steel scrap                           | 55                                 | 19               | --                | W                | --                         | 491                                | 170              | --                | W                | --                         |
| Alloy steel scrap                               | 12                                 | 35               | --                | W                | --                         | 118                                | 316              | --                | W                | --                         |
| Ingot mold and stool scrap                      | W                                  | W                | --                | W                | --                         | W                                  | W                | --                | W                | --                         |
| Machinery and cupola cast iron                  | --                                 | W                | W                 | W                | --                         | --                                 | W                | W                 | W                | --                         |
| Cast iron borings                               | W                                  | W                | W                 | --               | W                          | W                                  | W                | W                 | --               | W                          |
| Other iron scrap                                | W                                  | 52               | 5                 | 13               | W                          | W                                  | 450              | 51                | 100              | W                          |
| Other mixed scrap                               | W                                  | 39               | W                 | 3                | W                          | W                                  | 345              | W                 | 24               | W                          |
| Total   | 503                                | 1,610            | 533               | 1,470            | 333                        | 4,530                              | 14,400           | 4,590             | 12,700           | 3,040                      |

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

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

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

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

<sup>4</sup>May include revisions to previously published data.

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

(Thousand metric tons and thousand dollars)

| Region and country                      | September 2013 |         | January–September <sup>3</sup> |           |
|---|----------------|---------|--------------------------------|-----------|
|   | Quantity       | Value   | Quantity                       | Value     |
| <b>North America and South America:</b> |                |         |                                |           |
| Canada                                  | 80             | 24,100  | 706                            | 231,000   |
| Ecuador                                 | 1              | 133     | 76                             | 26,100    |
| Mexico                                  | 114            | 38,800  | 560                            | 203,000   |
| Peru                                    | 31             | 11,500  | 282                            | 100,000   |
| Venezuela                               | --             | --      | 1                              | 231       |
| Other <sup>4</sup>                      | (5)            | 169     | 4                              | 2,900     |
| Total                                   | 226            | 74,700  | 1,630                          | 564,000   |
| <b>Africa, Europe, Middle East:</b>     |                |         |                                |           |
| Belgium                                 | 1              | 708     | 5                              | 5,600     |
| Egypt                                   | 71             | 23,800  | 640                            | 229,000   |
| Germany                                 | (5)            | 345     | 3                              | 2,530     |
| Italy                                   | (5)            | 3       | 91                             | 34,000    |
| Kenya                                   | --             | --      | 1                              | 351       |
| Morocco                                 | --             | --      | 50                             | 18,900    |
| Netherlands                             | (5)            | 236     | 9                              | 12,200    |
| Portugal                                | --             | --      | 39                             | 13,300    |
| Saudi Arabia                            | --             | --      | 1                              | 261       |
| Spain                                   | (5)            | 183     | 10                             | 8,170     |
| Sweden                                  | (5)            | 448     | 2                              | 6,190     |
| Tunisia                                 | --             | --      | 30                             | 10,100    |
| Turkey                                  | 495            | 183,000 | 4,130                          | 1,490,000 |
| United Arab Emirates                    | (5)            | 127     | 2                              | 1,380     |
| United Kingdom                          | 1              | 420     | 6                              | 5,250     |
| Other <sup>4</sup>                      | 1              | 423     | 5                              | 3,870     |
| Total                                   | 569            | 210,000 | 5,020                          | 1,840,000 |
| <b>Asia, Australia, Oceania:</b>        |                |         |                                |           |
| Bangladesh                              | 1              | 405     | 62                             | 24,900    |
| China                                   | 115            | 85,300  | 1,470                          | 933,000   |
| Hong Kong                               | 2              | 2,990   | 51                             | 36,800    |
| India                                   | 15             | 9,690   | 460                            | 222,000   |
| Indonesia                               | 13             | 5,500   | 467                            | 177,000   |
| Japan                                   | 2              | 3,420   | 31                             | 53,000    |
| Korea, Republic of                      | 309            | 109,000 | 1,670                          | 635,000   |
| Malaysia                                | 2              | 915     | 474                            | 178,000   |
| Pakistan                                | 17             | 11,400  | 164                            | 112,000   |
| Philippines                             | (5)            | 106     | 8                              | 3,490     |
| Singapore                               | (5)            | 12      | 2                              | 3,780     |
| Taiwan                                  | 259            | 95,800  | 2,370                          | 940,000   |
| Thailand                                | 2              | 932     | 37                             | 13,100    |
| Vietnam                                 | 15             | 5,550   | 447                            | 163,000   |
| Other <sup>4</sup>                      | (5)            | 400     | 4                              | 3,370     |
| Total                                   | 753            | 331,000 | 7,720                          | 3,500,000 |
| Grand total                             | 1,550          | 616,000 | 14,400                         | 5,900,000 |

-- Zero.

<sup>1</sup>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 basis.

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

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Includes countries with January–September 2013 quantities of less than 500 metric tons.

<sup>5</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 7  
U.S. EXPORTS OF IRON AND STEEL SCRAP BY REGION AND  
SELECTED CUSTOMS DISTRICT<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

| Region and customs district   | September 2013 |                | January–September <sup>3</sup> |                  |
|---|----------------|----------------|--------------------------------|------------------|
|   | Quantity       | Value          | Quantity                       | Value            |
| <b>Canada–United States border:</b>   |                |                |                                |                  |
| Buffalo, NY   | 16             | 4,670          | 142                            | 50,300           |
| Chicago, IL   | (4)            | 141            | 2                              | 1,040            |
| Detroit, MI   | 22             | 6,980          | 178                            | 58,100           |
| Duluth, MN  | 6              | 2,160          | 40                             | 15,300           |
| Great Falls, MT   | 1              | 308            | 9                              | 2,480            |
| Ogdensburg, NY  | (4)            | 116            | 6                              | 2,110            |
| Pembina, ND   | 26             | 9,510          | 265                            | 95,900           |
| Other   | 5              | 565            | 36                             | 5,360            |
| <b>Total</b>  | <b>78</b>      | <b>24,500</b>  | <b>678</b>                     | <b>231,000</b>   |
| <b>East coast:</b>  |                |                |                                |                  |
| Baltimore, MD   | 36             | 12,700         | 276                            | 108,000          |
| Boston, MA  | 30             | 10,800         | 916                            | 336,000          |
| Charleston, SC  | 3              | 2,630          | 73                             | 40,000           |
| Charlotte, NC   | (4)            | 404            | 4                              | 6,050            |
| Miami, FL   | 36             | 14,100         | 336                            | 136,000          |
| New York, NY  | 279            | 108,000        | 2,250                          | 917,000          |
| Norfolk, VA   | 17             | 8,620          | 262                            | 124,000          |
| Philadelphia, PA  | 139            | 49,400         | 712                            | 257,000          |
| Portland, ME  | 28             | 10,500         | 123                            | 46,300           |
| Providence, RI  | 15             | 5,070          | 389                            | 139,000          |
| Savannah, GA  | 13             | 9,050          | 198                            | 118,000          |
| St. Albans, VT  | 3              | 749            | 27                             | 7,940            |
| Washington, DC  | --             | --             | (4)                            | 5                |
| <b>Total</b>  | <b>598</b>     | <b>232,000</b> | <b>5,560</b>                   | <b>2,230,000</b> |
| <b>Gulf coast and Mexico–United States border (includes Caribbean territories):</b> |                |                |                                |                  |
| El Paso, TX   | 7              | 2,310          | 22                             | 7,420            |
| Houston–Galveston, TX   | 112            | 52,300         | 836                            | 378,000          |
| Laredo, TX  | 40             | 14,200         | 326                            | 125,000          |
| Mobile, AL  | 1              | 625            | 185                            | 65,600           |
| New Orleans, LA   | (4)            | 86             | 220                            | 78,800           |
| San Juan, PR  | 10             | 2,920          | 195                            | 58,100           |
| Tampa, FL   | 54             | 20,600         | 329                            | 130,000          |
| U.S. Virgin Islands   | --             | --             | 7                              | 1,320            |
| Other   | (4)            | (4)            | 1                              | 33               |
| <b>Total</b>  | <b>224</b>     | <b>93,000</b>  | <b>2,120</b>                   | <b>845,000</b>   |
| <b>West coast and Hawaii:</b>   |                |                |                                |                  |
| Columbia–Snake, OR  | 31             | 12,500         | 662                            | 251,000          |
| Honolulu, HI, and Anchorage, AK   | 4              | 1,610          | 101                            | 36,000           |
| Los Angeles, CA   | 418            | 177,000        | 3,010                          | 1,420,000        |
| San Diego, CA   | 6              | 1,420          | 52                             | 14,100           |
| San Francisco, CA   | 133            | 51,400         | 1,480                          | 589,000          |
| Seattle, WA   | 57             | 22,500         | 694                            | 288,000          |
| <b>Total</b>  | <b>649</b>     | <b>267,000</b> | <b>6,010</b>                   | <b>2,590,000</b> |
| <b>Grand total</b>  | <b>1,550</b>   | <b>616,000</b> | <b>14,400</b>                  | <b>5,900,000</b> |

-- Zero.

<sup>1</sup>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 basis.

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

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Less than ½ unit.

Source: U.S. Census Bureau.



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

(Thousand metric tons and thousand dollars)

| Item   | September 2013 |         | January–September <sup>3</sup> |           |
|--|----------------|---------|--------------------------------|-----------|
|  | Quantity       | Value   | Quantity                       | Value     |
| No. 1 heavy melting steel  | 535            | 193,000 | 4,700                          | 1,690,000 |
| No. 2 heavy melting steel  | 86             | 28,200  | 674                            | 235,000   |
| No. 1 bundles  | 10             | 3,380   | 265                            | 91,800    |
| No. 2 bundles  | --             | --      | 9                              | 1,290     |
| Shredded steel scrap   | 467            | 165,000 | 4,320                          | 1,570,000 |
| Borings, shoveling and turnings                                    | 4              | 1,080   | 105                            | 35,600    |
| Cut plate and structural   | 142            | 50,700  | 854                            | 316,000   |
| Tinned iron or steel   | 10             | 4,280   | 111                            | 46,700    |
| Remelting scrap ingots   | 1              | 1,060   | 11                             | 9,800     |
| Cast iron  | 31             | 10,100  | 283                            | 111,000   |
| Other iron and steel   | 176            | 75,300  | 2,150                          | 915,000   |
| Total carbon steel and cast iron                                   | 1,460          | 532,000 | 13,500                         | 5,020,000 |
| Stainless steel  | 48             | 55,900  | 485                            | 575,000   |
| Other alloy steel  | 40             | 28,200  | 399                            | 304,000   |
| Total stainless and alloy steel                                    | 88             | 84,000  | 885                            | 879,000   |
| Total carbon, stainless, alloy steel and cast iron                 | 1,550          | 616,000 | 14,400                         | 5,900,000 |
| Ships, boats, and other vessels for<br>breaking up (for scrapping) | --             | --      | 6                              | 955       |
| Used rails for rerolling and other uses                            | 1              | 1,050   | 30                             | 28,400    |
| Total scrap exports  | 1,550          | 617,000 | 14,400                         | 5,930,000 |
| Exports of manufactured ferrous products:                          |                |         |                                |           |
| Pig iron < or = 0.5% phosphorus                                    | (4)            | 46      | 6                              | 2,870     |
| Pig iron > or = 0.5% phosphorus                                    | (4)            | 37      | 2                              | 241       |
| Alloy pig iron   | 1              | 144     | 4                              | 708       |
| Total pig iron   | 2              | 227     | 12                             | 3,820     |
| Direct-reduced iron (DRI)  | --             | --      | (4)                            | 30        |
| Spongy iron products, not DRI                                      | (4)            | 129     | 2                              | 2,160     |
| Granules for abrasive cleaning and other uses                      | 2              | 3,430   | 26                             | 37,100    |
| Powders of alloy steel   | 2              | 5,000   | 16                             | 40,800    |
| Other ferrous powders  | 9              | 9,740   | 75                             | 82,400    |
| Total DRI, granules, powders                                       | 13             | 18,300  | 118                            | 163,000   |
| Grand total  | 1,560          | 636,000 | 14,500                         | 6,100,000 |

-- Zero.

<sup>1</sup>Export valuation is on a free-alongside-ship basis.

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

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Less than ½ unit.

Source: U.S. Census Bureau.

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

(Thousand metric tons and thousand dollars)

| Country            | September 2013 |         | January–September <sup>3</sup> |           |
|--------------------|----------------|---------|--------------------------------|-----------|
|                    | Quantity       | Value   | Quantity                       | Value     |
| Bahamas, The       | (4)            | 70      | 3                              | 624       |
| Canada             | 299            | 105,000 | 2,280                          | 848,000   |
| China              | 1              | 376     | 6                              | 2,800     |
| Dominican Republic | 3              | 51      | 3                              | 183       |
| Germany            | (4)            | 102     | 5                              | 1,800     |
| Italy              | --             | --      | 2                              | 75        |
| Japan              | 1              | 194     | 5                              | 1,770     |
| Mexico             | 26             | 11,600  | 200                            | 91,500    |
| Sweden             | 7              | 1,660   | 107                            | 41,900    |
| United Kingdom     | 40             | 16,100  | 160                            | 65,800    |
| Other <sup>5</sup> | (4)            | 570     | 8                              | 3,540     |
| Total              | 377            | 136,000 | 2,780                          | 1,060,000 |

-- Zero.

<sup>1</sup>Includes 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.

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

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Less than ½ unit.

<sup>5</sup>Includes countries with January–September 2013 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<sup>1,2</sup>

(Thousand metric tons and thousand dollars)

| Customs district   | September 2013 |         | January–September <sup>3</sup> |           |
|--------------------|----------------|---------|--------------------------------|-----------|
|                    | Quantity       | Value   | Quantity                       | Value     |
| Buffalo, NY        | 76             | 35,000  | 525                            | 263,000   |
| Charleston, SC     | 40             | 16,200  | 188                            | 75,700    |
| Chicago, IL        | 5              | 496     | 31                             | 5,360     |
| Columbia-Snake, OR | --             | --      | 8                              | 2,320     |
| Detroit, MI        | 101            | 36,700  | 910                            | 339,000   |
| Duluth, MN         | 6              | 1,860   | 42                             | 12,300    |
| El Paso, TX        | 2              | 983     | 27                             | 11,200    |
| Great Falls, MT    | 10             | 3,030   | 99                             | 30,000    |
| Laredo, TX         | 18             | 8,940   | 119                            | 63,000    |
| Mobile, AL         | 7              | 1,710   | 38                             | 15,300    |
| New Orleans, LA    | 1              | 94      | 27                             | 10,400    |
| Nogales, AZ        | 3              | 768     | 22                             | 7,390     |
| Norfolk, VA        | (4)            | 97      | 1                              | 342       |
| Ogdensburg, NY     | 6              | 2,760   | 42                             | 22,600    |
| Pembina, ND        | 7              | 2,880   | 56                             | 21,500    |
| Portland, ME       | 1              | 439     | 6                              | 2,180     |
| San Diego, CA      | 3              | 905     | 32                             | 9,540     |
| San Juan, PR       | 3              | 51      | 3                              | 62        |
| Seattle, WA        | 85             | 22,300  | 555                            | 145,000   |
| St Albans, VT      | (4)            | 75      | 13                             | 4,700     |
| Wilmington, NC     | (4)            | 475     | 30                             | 12,000    |
| Other              | 3              | 442     | 12                             | 4,380     |
| Total              | 377            | 136,000 | 2,780                          | 1,060,000 |

-- Zero.

<sup>1</sup>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.

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

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Less than ½ unit.

Source: U.S. Census Bureau.

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

(Thousand metric tons and thousand dollars)

| Item   | September 2013 |         | January–September <sup>3</sup> |           |
|--|----------------|---------|--------------------------------|-----------|
|  | Quantity       | Value   | Quantity                       | Value     |
| No. 1 heavy melting steel  | 33             | 10,700  | 223                            | 74,000    |
| No. 2 heavy melting steel  | 16             | 4,270   | 110                            | 29,700    |
| No. 1 bundles  | 122            | 48,000  | 825                            | 317,000   |
| No. 2 bundles  | 5              | 1,530   | 38                             | 10,700    |
| Shredded steel scrap   | 39             | 8,540   | 350                            | 87,600    |
| Borings, shovelings and turnings                                   | 7              | 1,560   | 45                             | 10,100    |
| Cut plate and structural   | 27             | 8,610   | 195                            | 61,600    |
| Tinned iron or steel   | 7              | 2,180   | 41                             | 15,300    |
| Remelting scrap ingots   | (4)            | 5       | (4)                            | 56        |
| Cast iron  | 16             | 2,630   | 149                            | 41,100    |
| Other iron and steel   | 41             | 12,600  | 362                            | 109,000   |
| Total carbon steel and cast iron                                   | 313            | 101,000 | 2,340                          | 755,000   |
| Stainless steel  | 22             | 18,300  | 149                            | 149,000   |
| Other alloy steel  | 43             | 17,200  | 295                            | 153,000   |
| Total stainless and alloy steel                                    | 65             | 35,500  | 444                            | 303,000   |
| Total carbon, stainless, alloy steel and cast iron                 | 377            | 136,000 | 2,780                          | 1,060,000 |
| Ships, boats, and other vessels for<br>breaking up (for scrapping) | --             | --      | (4)                            | 6         |
| Total scrap imports  | 377            | 136,000 | 2,780                          | 1,060,000 |
| Imports of manufactured ferrous products:                          |                |         |                                |           |
| Pig iron < or = 0.5% phosphorus                                    | 520            | 206,000 | 3,080                          | 1,230,000 |
| Pig iron < or = 0.5% phosphorus                                    | --             | --      | (4)                            | 26        |
| Alloy pig iron   | --             | --      | (4)                            | 142       |
| Total pig iron   | 520            | 206,000 | 3,080                          | 1,230,000 |
| Direct-reduced iron (DRI)  | 205            | 74,500  | 1,690                          | 582,000   |
| Spongy iron products, not DRI                                      | (4)            | 396     | 120                            | 54,100    |
| Granules for abrasive cleaning and other uses                      | 2              | 2,040   | 19                             | 18,700    |
| Powders of alloy steel   | 5              | 8,340   | 40                             | 70,600    |
| Other ferrous powders  | 4              | 7,510   | 37                             | 65,200    |
| Total DRI, granules, powders                                       | 217            | 92,800  | 1,910                          | 791,000   |
| Grand total  | 1,110          | 434,000 | 7,770                          | 3,080,000 |

-- Zero.

<sup>1</sup>Import valuation is on a Customs basis.

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

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 12  
U.S. RAW STEEL PRODUCTION, RAW STEEL CAPABILITY UTILIZATION,  
AND CONTINUOUS CAST STEEL PRODUCTION<sup>1</sup>

| Period    | Raw steel production,<br>thousand metric tons |                              | Raw steel capability<br>utilization, percent |                              | Continuous cast steel<br>production, percent |                              |
|-----------|---|------------------------------|--|------------------------------|--|------------------------------|
|           | Monthly                                       | Year<br>to date <sup>2</sup> | Monthly                                      | Year<br>to date <sup>2</sup> | Monthly                                      | Year<br>to date <sup>2</sup> |
|           |   |                              |  |                              |  |                              |
| 2012:     |   |                              |  |                              |  |                              |
| September | 6,810   | 68,000                       | 70.4   | 77.0                         | 98.4   | 98.5                         |
| October   | 6,800   | 74,800                       | 68.0   | 76.1                         | 98.7   | 98.6                         |
| November  | 6,780   | 81,600                       | 70.1   | 75.5                         | 98.7   | 98.6                         |
| December  | 7,180   | 88,800                       | 71.7   | 75.2                         | 99.1   | 98.6                         |
| 2013:     |   |                              |  |                              |  |                              |
| January   | 7,370   | 7,370                        | 76.5   | 76.5                         | 98.7   | 98.7                         |
| February  | 6,810   | 14,200                       | 78.3   | 77.3                         | 98.7   | 98.7                         |
| March     | 7,340   | 21,500                       | 76.2   | 77.0                         | 98.8   | 98.7                         |
| April     | 7,150   | 28,700                       | 76.7   | 76.9                         | 98.7   | 98.7                         |
| May       | 7,370   | 36,000                       | 76.5   | 76.8                         | 98.7   | 98.7                         |
| June      | 7,100   | 43,100                       | 76.1   | 76.7                         | 98.6   | 98.7                         |
| July      | 7,440   | 50,600                       | 77.3   | 76.8                         | 98.5   | 98.7                         |
| August    | 7,470   | 58,000                       | 77.6   | 76.9                         | 98.9   | 98.7                         |
| September | 7,290   | 65,300                       | 78.3   | 77.0                         | 98.8   | 98.7                         |

<sup>1</sup>Data are rounded to no more than three significant digits.

<sup>2</sup>May 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 <sup>1</sup> |        |                       |        |
|---------------------------|-----------------------|--------|-----------------------------------|--------|-----------------------|--------|
|                           | No. 1 HMS             |        | No. 1 HMS                         |        | Pig Iron <sup>2</sup> |        |
|                           | \$/lt                 | \$/t   | \$/lt                             | \$/t   | \$/lt                 | \$/t   |
| 2012:                     |                       |        |                                   |        |                       |        |
| September                 | 349.79                | 344.27 | 312.84                            | 307.90 | 452.12                | 444.98 |
| October                   | 312.56                | 307.62 | 312.84                            | 307.90 | 458.22                | 450.88 |
| November                  | 341.14                | 335.75 | 347.08                            | 341.60 | 467.36                | 459.98 |
| December                  | 349.39                | 343.87 | 347.50                            | 342.01 | 467.36                | 459.98 |
| Average, January–December | 367.36                | 361.56 | 365.28                            | 359.51 | 487.70                | 479.99 |
| 2013:                     |                       |        |                                   |        |                       |        |
| January                   | 352.35                | 346.78 | 350.83                            | 345.29 | 467.36                | 459.98 |
| February                  | 343.54                | 338.11 | 342.92                            | 337.50 | 467.36                | 459.98 |
| March                     | 363.19                | 357.45 | 366.17                            | 360.39 | 467.36                | 459.98 |
| April                     | 352.10                | 346.54 | 357.84                            | 352.19 | 455.17                | 447.98 |
| May                       | 329.64                | 324.43 | 332.50                            | 327.25 | 449.58                | 442.48 |
| June                      | 324.86                | 319.73 | 327.50                            | 322.33 | 441.96                | 434.98 |
| July                      | 339.50                | 334.14 | 337.83                            | 332.49 | 441.96                | 434.98 |
| August                    | 340.69                | 335.31 | 340.83                            | 335.45 | 441.96                | 434.98 |
| September                 | 336.61                | 331.29 | 335.50                            | 330.20 | 436.88                | 429.98 |

<sup>1</sup>Formerly Iron Age.

<sup>2</sup>Prices are Brazilian basic pig iron, f.o.b. New Orleans, LA.

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