



U.S. Department of the Interior • Bureau of Mines

MINERAL INDUSTRY SURVEYS

Washington, DC 20241

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IRON AND STEEL SCRAP IN OCTOBER 1992

Returns from 44% of reporting consumers, representing 59% of total scrap consumption, indicated that consumption of iron and steel scrap on a daily average basis was up minimally compared with that in September 1992, according to the U.S. Bureau of Mines. Compared with September 1992 data, daily average production went down 3%, net receipts were up 3%, and stocks at the end of the month were down slightly.

Exports of ferrous scrap for the month of October 1992 rose by 53% compared with those for September 1992. Turkey was the principal country of destination, accounting for 29% of the total exports in September 1992, followed by Republic of Korea with 22% and Canada with 11%.

On a daily average basis, both pig iron production and pig iron consumption went down marginally in October 1992, compared with the previous month. Stocks of pig iron at month's end were up 3%, compared with those at the end of September 1992.

Table 14A shows that, based on quantity, Los Angeles, CA, was the leading customs district for exports in September 1992, accounting for 20% of total exports, followed by New York, NY, with 14%, and Boston, MA, with 11%. Laredo, TX, was the leading re-exporter, accounting for 82% of total re-exports, followed by Los Angeles, CA, with 14% and New York, NY, with 4%.

Table 15 reveals that, on a quantity basis, Detroit, MI, was the leading customs district for imports in September 1992, accounting for 26% of the total imports, followed by Seattle, WA, with 25% and Houston, TX, with 18%.

Prepared by the Branch of Metals and Branch of Data Collection and Coordination, January 22, 1993.



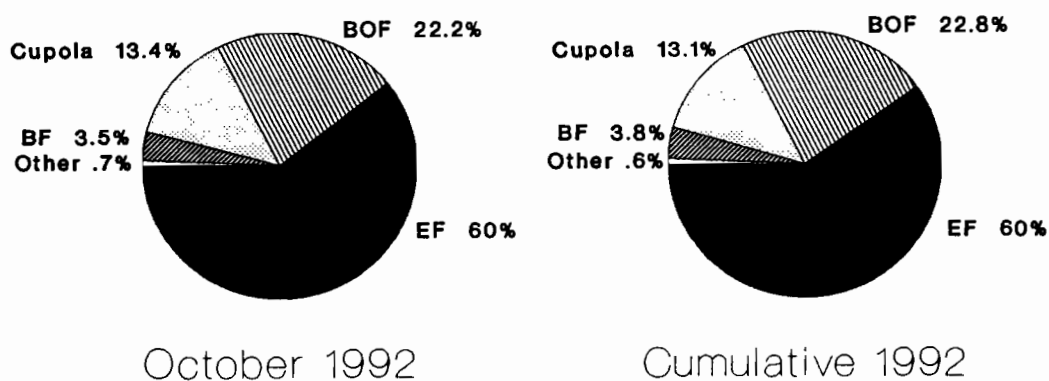
**James Boyd
Memorial Library**

According to the American Iron and Steel Institute, domestic raw steel production in October 1992 amounted to 7,023,000 metric tons, up 7% compared with 6,576,000 metric tons in September 1992, and up marginally compared with 6,995,000 metric tons in October 1991. Year-to-date production through October 1992 was 69,600,000 metric tons, up 6% compared with 65,800,000 metric tons for the same period in 1991. The electric furnace (EF) portion of raw steel production for October 1992 remained constant from September 1992 at 38% and was down marginally from the same period 1 year ago. The EF share through October was 37% in 1992 and 39% in 1991. Raw steel capability utilization was 81% for October 1992, 78% for September 1992, and 78% for October 1991. Capability utilization through October was 81% in 1992 and 74% in 1991. Continuous cast steel production in the United States represented 82% of total raw steel production in October 1992, 81% in September 1992, and 75% in October 1991. Through October, continuous cast steel production was 78% of total raw steel production in 1992, compared with 75% in 1991.

An internal evaluation indicates that ferrous scrap consumption by electric furnace manufacturers of raw steel in 1992 was understated. This amounted to approximately 270,000 metric tons for October (preliminary), 220,000 metric tons for September (revised), and 3,200,000 tons for the year-to-date through October 1992.

As of January 1993, the U.S. Bureau of Mines will no longer collect and report monthly scrap data from steel casters, iron foundries, and miscellaneous users. These data will be collected and reported annually.

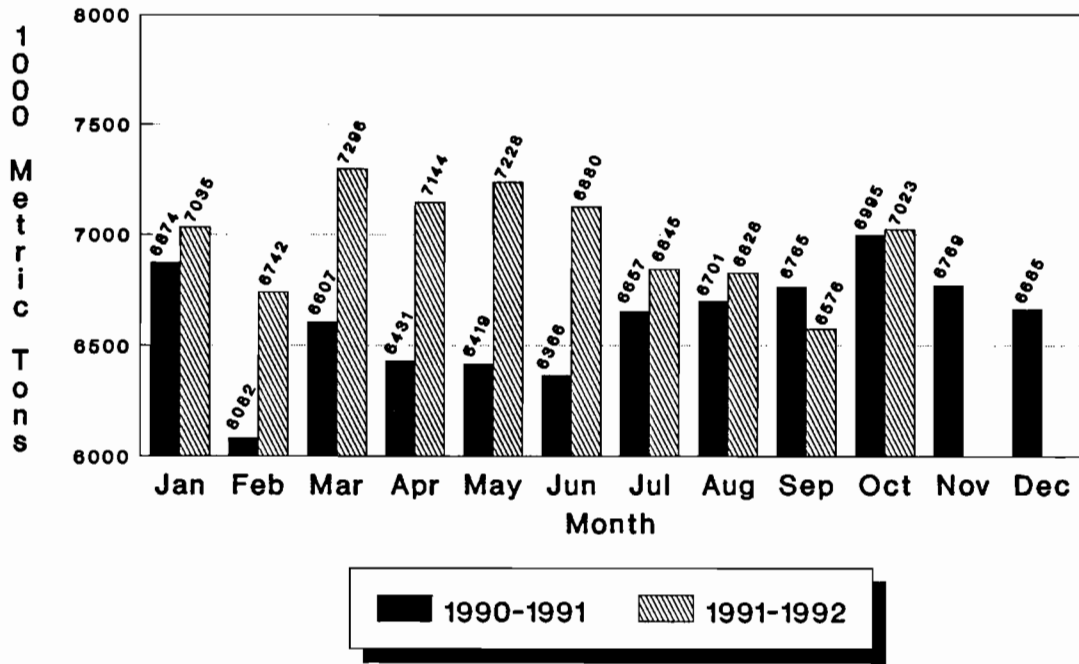
Iron and Steel Scrap Consumption Breakdown in %, by Furnace Type 1/2/



1/Data may not add to 100% because of independent rounding.
2/Includes all types of consumers.

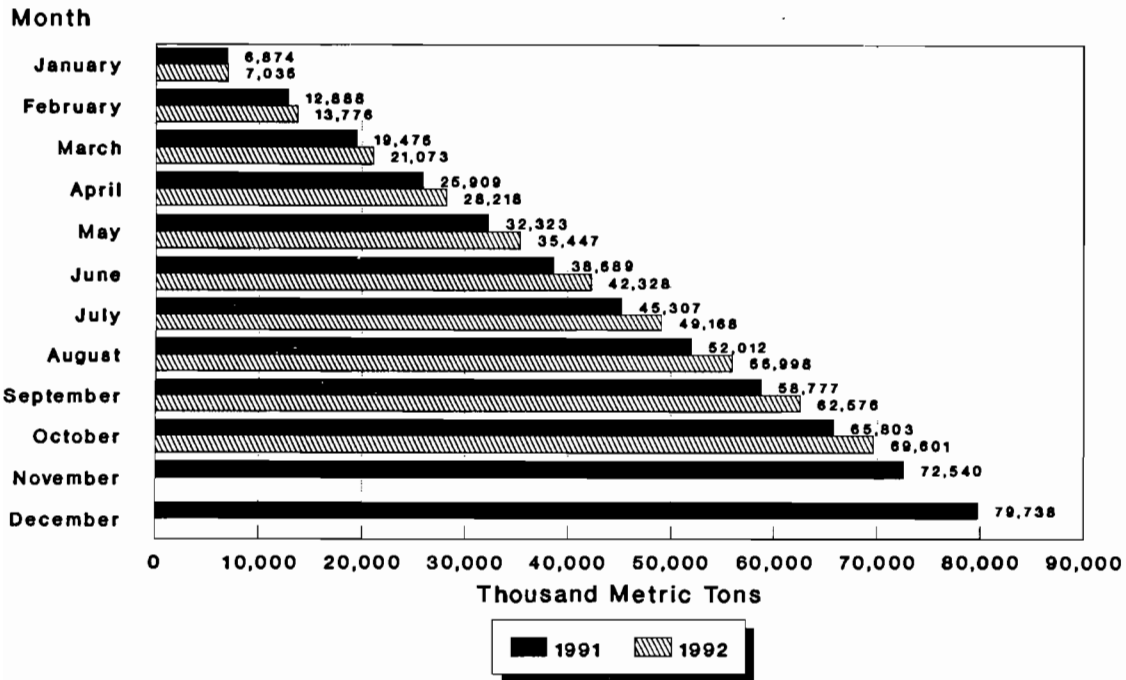
U.S. Raw Steel Production Monthly, Through October 1992

Source: American Iron and Steel Institute



U.S. Raw Steel Production Cumulative, Through October 1992

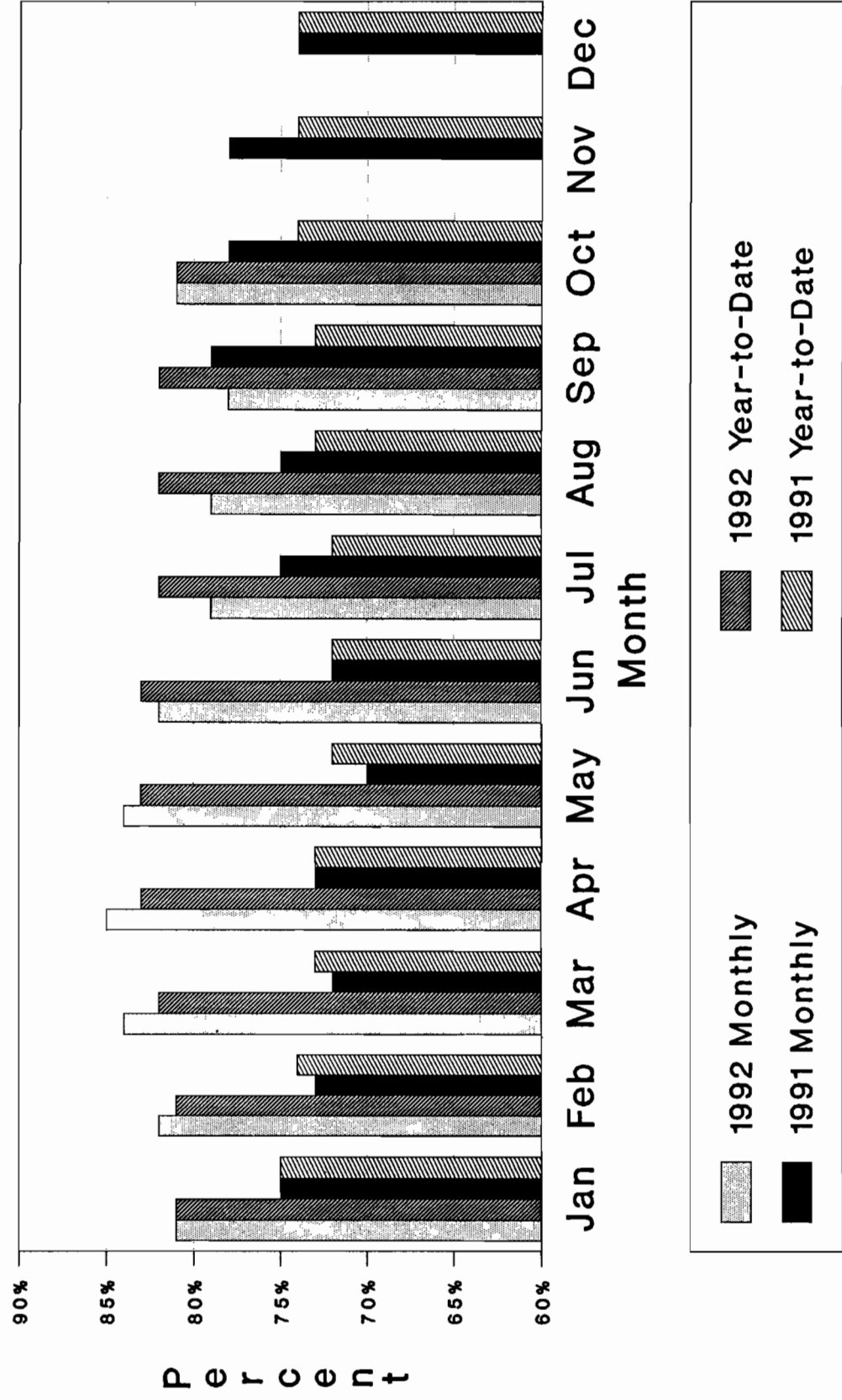
Source: American Iron and Steel Institute



Raw Steel Capability Utilization in 1992

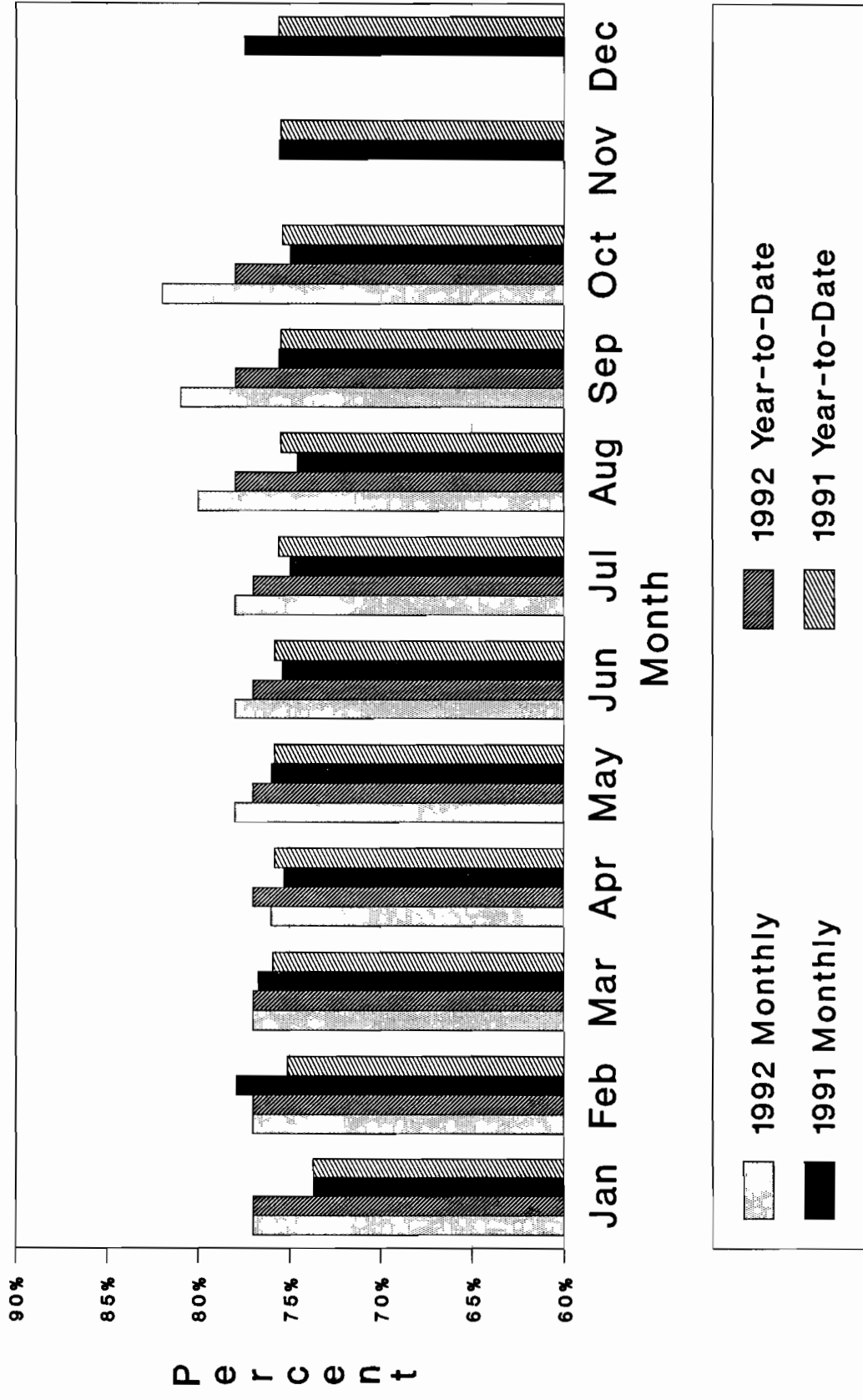
Monthly and Year-to-Date

Source: American Iron & Steel Institute



Continuous Cast Steel Production in 1992

Monthly and Year-to-Date



Comparative monthly composite prices in dollars per long ton (\$/lt) and dollars per metric ton (\$/mt) for No. 1 heavy melting steel scrap are shown as quoted by two sources:

| American Metal Market | | | | | | |
|------------------------|--------|--------|--------|--------|-------|-------|
| Month | 1990 | | 1991 | | 1992 | |
| | \$/lt | \$/mt | \$/lt | \$/mt | \$/lt | \$/mt |
| January | 102.74 | 101.12 | 105.04 | 103.38 | 85.67 | 84.32 |
| February | 102.96 | 101.33 | 102.36 | 100.74 | 86.51 | 85.14 |
| March | 100.02 | 98.44 | 98.79 | 97.23 | 88.00 | 86.61 |
| April | 106.05 | 104.38 | 97.78 | 96.24 | 88.64 | 87.24 |
| May | 110.93 | 109.18 | 94.78 | 93.28 | 87.28 | 85.90 |
| June | 107.65 | 105.95 | 88.97 | 87.56 | 85.06 | 83.72 |
| July | 105.70 | 104.03 | 87.19 | 85.81 | 85.00 | 83.66 |
| August | 114.33 | 112.52 | 90.21 | 88.79 | 85.30 | 83.95 |
| September | 112.59 | 110.81 | 91.67 | 90.22 | 85.67 | 84.32 |
| October | 110.63 | 108.88 | 90.55 | 89.12 | 84.33 | 83.00 |
| November | 107.33 | 105.63 | 86.16 | 84.80 | 84.00 | 82.67 |
| December | 104.83 | 103.17 | 85.67 | 84.32 | 86.86 | 85.49 |
| Avg through Dec | 107.15 | 105.46 | 93.26 | 91.79 | 86.03 | 84.67 |
| Avg through Oct | 107.36 | 105.66 | 94.73 | 93.23 | 86.15 | 84.79 |

| Iron Age | | | | | | |
|------------------------|--------|--------|--------|--------|-------|-------|
| Month | 1990 | | 1991 | | 1992 | |
| | \$/lt | \$/mt | \$/lt | \$/mt | \$/lt | \$/mt |
| January | 104.10 | 102.46 | 103.25 | 101.62 | 84.29 | 82.96 |
| February | 102.58 | 100.96 | 100.67 | 99.08 | 85.21 | 83.86 |
| March | 100.50 | 98.91 | 98.50 | 96.94 | 86.73 | 85.36 |
| April | 108.37 | 106.66 | 98.23 | 96.68 | 87.33 | 85.95 |
| May | 112.17 | 110.40 | 93.50 | 92.02 | 86.08 | 84.72 |
| June | 109.50 | 107.77 | 87.92 | 86.53 | 83.67 | 82.35 |
| July | 107.76 | 106.06 | 88.10 | 86.71 | 83.92 | 82.59 |
| August | 114.17 | 112.37 | 92.00 | 90.55 | 84.70 | 83.36 |
| September | 111.75 | 109.99 | 92.70 | 91.24 | 85.42 | 84.07 |
| October | 109.90 | 108.16 | 91.75 | 90.30 | 83.83 | 82.51 |
| November | 104.42 | 102.77 | 86.67 | 85.30 | 83.53 | 82.21 |
| December | 103.24 | 101.61 | 85.23 | 83.88 | 88.04 | 86.65 |
| Avg through Dec | 107.37 | 105.68 | 93.21 | 91.74 | 85.23 | 83.88 |
| Avg through Oct | 108.08 | 106.37 | 94.66 | 93.17 | 85.12 | 83.78 |

Table 1.-- U.S. receipts, production, consumption, shipments, and stocks of iron and steel scrap and pig iron, by type of manufacturer p/ 1/ (Metric tons)

| | October 1992 | | | | | Total year through Oct 1992 5/ |
|--|---|----------------------------|--|-----------------------------|--|--------------------------------|
| | Mfrs. of pig iron and raw steel & castings 2/ | Mfrs. of steel castings 3/ | Iron foundries and miscellaneous users | Total for month of Oct 1992 | Revised total for month of Sep 1992 4/ | |
| Scrap: | | | | | | |
| Receipts from dealers and other sources | 2,652,603 | 205,459 | 733,287 | 3,591,349 | 3,404,222 | 34,142,893 |
| Receipts from other own company plants | 386,441 | 2,400 | 82,579 | 471,420 | 462,549 | 4,312,841 |
| Production recirculating scrap | 1,279,783 | 73,037 | 331,750 | 6/1,684,571 | 1,663,317 | 17,453,136 |
| Production obsolete scrap | 45,760 | 128 | 7,051 | 52,939 | 70,723 | 747,858 |
| Consumption | 4,017,415 | 277,070 | 1,184,102 | 5,478,587 | 5,273,281 | 53,264,602 |
| Shipments | 388,117 | 599 | 18,814 | 407,530 | 415,533 | 4,276,134 |
| Stocks end of month | 3,223,511 | 262,362 | 665,153 | 6/4,151,025 | 4,191,728 | -- |
| Pig iron: | | | | | | |
| Receipts | 181,438 | 1,968 | 76,340 | 5/259,745 | 262,859 | 2,638,024 |
| Production | 3,983,760 | -- | -- | 3,983,760 | 3,866,352 | 40,373,253 |
| Consumption | 4,093,314 | 1,897 | 70,754 | 4,165,965 | 4,063,266 | 42,219,788 |
| Shipments | 85,089 | 88 | 3,072 | 88,249 | 88,247 | 929,802 |
| Stocks end of month | 147,670 | 4,789 | 74,655 | 227,114 | 220,246 | -- |
| Direct-reduced or prerduced iron: | | | | | | |
| Receipts 7/ | -- | -- | -- | 109,817 | 81,217 | 840,456 |
| Production | -- | -- | -- | -- | -- | -- |
| Consumption | -- | -- | -- | 89,364 | 70,542 | 744,461 |
| Shipments | -- | -- | -- | -- | -- | -- |
| Stocks end of month | -- | -- | -- | 164,239 | 149,487 | -- |

p/Preliminary. W Withheld to avoid disclosing individual company proprietary data.

1/Based on returns from 40% of reporting consumers, representing 57% of scrap consumption.

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

3/Excludes companies that produce both raw steel and castings.

4/Based on returns from 44% of reporting consumers, representing 59% of scrap consumption.

5/Cumulative totals may not agree with sum of monthly reports because of addition of reports from late respondents.

6/Data do not add to total shown due to independent rounding.

7/Includes production.

Table 2.-- Manufacturers of pig iron and raw steel and castings 1/ receipts, production, consumption, shipments and stocks of pig iron and iron and steel scrap, by grade, October 1992 p/ 2/ (Metric tons)

| Item | Receipts of scrap | | | Production of home scrap | | | Shipments of scrap | Ending Stocks |
|---|---|----------------------|------------|--------------------------|-------------------|--|--------------------|---------------|
| | Brokers dealers and other outside sources | Other company plants | | Recirculating scrap 3/ | Obsolete scrap 4/ | Consumption of purchased and home scrap 5/ | | |
| Scrap: | | | | | | | | |
| Carbon steel | 36,508 | -- | -- | -- | -- | 40,081 | -- | 14,673 |
| Low-phosphorus plate and punchings | 126,351 | 4,518 | 43,143 | 43,143 | 6,179 | 177,633 | 3,123 | 162,828 |
| Cut structural and plate | 549,813 | 118,379 | 479,653 | 479,653 | 14,730 | 1,031,376 | 166,545 | 808,994 |
| No. 1 Heavy melting steel | 317,521 | 10,904 | 62,102 | 62,102 | 1,079 | 399,771 | 4,921 | 389,785 |
| No. 2 Heavy melting steel | 376,844 | 37,352 | 61,432 | 61,432 | 168 | 429,421 | 47,927 | 357,173 |
| No. 1 And electric furnace bundles | 87,437 | 2,361 | 7,727 | 7,727 | -- | 99,373 | 37 | 74,491 |
| No. 2 And all other bundles | 1,396 | 18,458 | 1 | 1 | -- | 19,627 | 372 | 2,383 |
| Electric furnace 1 foot and under (not bundles) | 26,649 | 1,565 | 835 | 835 | -- | 27,153 | -- | 45,591 |
| Railroad rails | 82,157 | 1,465 | 7,156 | 7,156 | -- | 91,545 | 771 | 80,328 |
| Turnings and borings | 89,619 | 17,432 | 142,216 | 142,216 | 86 | 208,868 | 40,816 | 84,444 |
| Slag scrap (Fe content 79 percent) | 384,593 | 93,573 | 7,427 | 7,427 | -- | 456,039 | -- | 407,775 |
| Shredded and fragmented | 128,533 | 10,375 | 8,461 | 8,461 | 6 | 140,436 | 5,143 | 101,977 |
| No. 1 Busheling | 240,297 | 35,088 | 314,051 | 314,051 | 5,858 | 556,122 | 88,379 | 266,154 |
| All other carbon steel scrap | 46,883 | 1,025 | 36,437 | 36,437 | -- | 83,694 | 550 | 48,165 |
| Stainless steel scrap | 10,152 | 12,369 | 42,429 | 42,429 | 26 | 61,013 | 2,372 | 103,001 |
| Alloy steel (except stainless) | 4,208 | 6,911 | 17,895 | 17,895 | 17,524 | 32,123 | 13,714 | 106,097 |
| Ingot mold and stool scrap | -- | -- | 382 | 382 | -- | 72 | 299 | 2,410 |
| Machinery and cupola cast iron | 7,938 | 3 | 47 | 47 | 54 | 7,765 | 654 | 5,755 |
| Cast iron borings | -- | -- | -- | -- | -- | -- | -- | -- |
| Motor blocks | 43,940 | 4,912 | 38,006 | 38,006 | 38 | 61,070 | 11,978 | 72,905 |
| Other iron scrap | 91,764 | 10,747 | 10,383 | 10,383 | 13 | 94,234 | 516 | 88,583 |
| Other mixed scrap | | | | | | | | |
| Total scrap | 2,652,603 | 386,437 | 1,279,783 | 1,279,783 | 45,761 | 4,017,416 | 388,117 | 673,223,511 |
| Total scrap through October 1992 | 25,375,274 | 3,516,185 | 13,527,188 | 13,527,188 | 664,506 | 39,287,454 | 4,075,582 | 3,223,511 |
| Pig iron | | | | | | | | |
| | Receipts | | | Production | | | Shipments | Stocks |
| Pig iron through October 1992 | 181,438 | | | 3,983,760 | | | 85,089 | 147,670 |
| Pig iron through October 1992 | 1,864,308 | | | 40,373,253 | | | 904,952 | 147,670 |

p/Preliminary.

- 1/Includes only those manufacturers of steel castings that also produce raw steel.
- 2/Based on returns from 40% of reporting consumers, representing 58% of scrap consumption.
- 3/Recirculating scrap resulting from current operations.
- 4/Obsolete scrap includes ingot molds, stools, and scrap from old equipment, buildings, etc.
- 5/Home scrap includes recirculating scrap.
- 6/Data do not add to total shown due to independent rounding.

Table 3.-- Manufacturers of steel castings 1/ receipts, production, consumption, shipments, and stocks of pig iron and iron and steel scrap, by grade, October 1992 p/ 2/ (Metric tons)

| Item | Receipts of scrap | | | Production of home scrap | | | Shipments of scrap | Ending Stocks |
|---|---|--------------------------|--|--------------------------|-------------------|--|--------------------|------------------|
| | Brokers dealers and other outside sources | Other own company plants | | Recirculating scrap 3/ | Obsolete scrap 4/ | Consumption of purchased and home scrap 5/ | | |
| Scrap: | | | | | | | | |
| Carbon steel | | | | | | | | |
| Low-phosphorus plate and punchings | 43,881 | -- | | 12,262 | 109 | 58,995 | -- | 35,986 |
| Cut structural and plate | 25,603 | 1,033 | | 4,394 | 19 | 30,539 | -- | 33,932 |
| No. 1 Heavy melting steel | 10,299 | -- | | 7,902 | -- | 17,646 | -- | 11,548 |
| No. 2 Heavy melting steel | 15,856 | -- | | 136 | -- | 2,115 | -- | 11,859 |
| No. 1 And electric furnace bundles | 2,656 | -- | | -- | -- | 2,329 | -- | 1,619 |
| No. 2 And all other bundles | 920 | -- | | -- | -- | -- | -- | 866 |
| Electric furnace 1 foot and under (not bundles) | 4,723 | 718 | | 73 | -- | 5,513 | -- | 3,921 |
| Railroad rails | 7,169 | -- | | -- | -- | 6,996 | -- | 1,831 |
| Turnings and borings | 3,143 | -- | | 2,077 | -- | 4,557 | 321 | 3,038 |
| Slag scrap (Fe content 79 percent) | 875 | -- | | -- | -- | 928 | -- | 4,722 |
| Shredded and fragmented | 14,251 | -- | | -- | -- | 15,377 | -- | 11,357 |
| No. 1 Busheling | 16,498 | -- | | -- | -- | 15,292 | -- | 5,580 |
| All other carbon steel scrap | 26,267 | -- | | 25,302 | -- | 49,512 | -- | 44,927 |
| Stainless steel scrap | 2,956 | 44 | | 1,575 | -- | 5,230 | -- | 8,360 |
| Alloy steel (except stainless) | 6,514 | -- | | 11,268 | -- | 16,687 | 174 | 58,633 |
| Ingot mold and stool scrap | -- | -- | | -- | -- | -- | -- | -- |
| Machinery and cupola cast iron | 15,789 | -- | | 3,137 | -- | 20,234 | -- | 5,973 |
| Cast iron borings | 5,536 | 604 | | 807 | -- | 4,617 | -- | 4,232 |
| Motor blocks | -- | -- | | -- | -- | 19 | -- | -- |
| Other iron scrap | 2,527 | -- | | 3,242 | -- | 4,203 | 103 | 13,793 |
| Other mixed scrap | -- | -- | | 862 | -- | 862 | -- | 181 |
| Total scrap | 205,463 | 2,399 | | 75,037 | 128 | 277,071 | 598 | 67262,362 |
| Total scrap through October 1992 | 1,831,206 | 18,735 | | 666,321 | 1,090 | 2,476,246 | 9,089 | 282,362 |
| | Receipts | | | Production | | | Shipments | Stocks |
| Pig iron | 1,968 | -- | | -- | -- | 1,897 | 88 | 4,789 |
| Pig iron through October 1992 | 18,912 | -- | | -- | -- | 18,442 | 880 | 4,789 |

p/Preliminary.
1/Excludes companies that produce both raw steel and castings.
2/Based on returns from 32% of reporting consumers, representing 36% of scrap consumption.
3/Recirculating scrap resulting from current operations.
4/Obsolete scrap includes ingot molds, stools, and scrap from old equipment, buildings, etc.
5/Home scrap includes recirculating scrap.
6/Data do not add to total shown due to independent rounding.

Table 4.-- Iron foundries and miscellaneous users receipts, production, consumption, shipments, and stocks of pig iron and iron and steel scrap, by grade, October 1992 p/ 1/ (Metric tons)

| Item | Receipts of scrap | | | Production of home scrap | | | Shipments of scrap | Ending Stocks |
|---|-----------------------------------|--------------------------|--|--------------------------|-------------------|--|--------------------|----------------|
| | Brokers and other outside sources | Other own company plants | | Recirculating scrap 2/ | Obsolete scrap 3/ | Consumption of purchased and home scrap 4/ | | |
| Scrap: | | | | | | | | |
| Carbon steel | | | | | | | | |
| Low-phosphorus plate and punchings | 96,565 | 2,052 | | 11,352 | 3,119 | 113,677 | 80 | 56,402 |
| Cut structural and plate | 86,313 | 1,960 | | 6,945 | -- | 93,776 | 32 | 45,433 |
| No. 1 Heavy melting steel | 14,307 | 8,303 | | 22,133 | -- | 31,081 | 13,519 | 33,419 |
| No. 2 Heavy melting steel | 17,282 | -- | | 6,592 | -- | 22,104 | -- | 3,557 |
| No. 1 And electric furnace bundles | 7,532 | 14,270 | | 1,080 | -- | 21,094 | -- | 4,766 |
| No. 2 And all other bundles | 18,799 | -- | | -- | -- | 20,431 | -- | 19,822 |
| Electric furnace 1 foot and under (not bundles) | 4,178 | 540 | | -- | -- | 4,868 | -- | 543 |
| Railroad rails | 15,909 | -- | | 174 | -- | 16,146 | 174 | 12,076 |
| Turnings and borings | 21,912 | 6,749 | | 264 | -- | 25,353 | 171 | 36,428 |
| Slag scrap (Fe content 79 percent) | 3,594 | -- | | 184 | -- | 3,467 | 184 | 1,283 |
| Shredded and fragmented | 85,595 | 8,969 | | -- | -- | 150,171 | -- | 34,612 |
| No. 1 Busheling | 43,886 | 9,033 | | 2,582 | -- | 57,142 | -- | 14,521 |
| All other carbon steel scrap | 45,351 | -- | | 1,220 | -- | 47,176 | -- | 63,231 |
| Stainless steel scrap | 545 | -- | | 622 | -- | 1,213 | -- | 5,666 |
| Alloy steel (except stainless) | 1,949 | -- | | 762 | -- | 3,088 | 12 | 12,793 |
| Ingot mold and stool scrap | 21,736 | 704 | | 9,184 | 1,602 | 28,410 | -- | 12,617 |
| Machinery and cupola cast iron | 87,875 | 17,010 | | 23,278 | 2,191 | 128,816 | 218 | 128,195 |
| Cast iron borings | 41,708 | 7,469 | | 3,288 | -- | 47,661 | 376 | 36,371 |
| Motor blocks | 33,261 | 4,119 | | 49,036 | -- | 87,667 | 1,173 | 26,858 |
| Other iron scrap | 41,633 | 2,326 | | 161,331 | 75 | 205,444 | 1,321 | 63,963 |
| Other mixed scrap | 43,354 | 76 | | 31,923 | 64 | 77,338 | 1,819 | 52,597 |
| Total scrap | 733,284 | 82,580 | | 331,750 | 7,051 | 1,186,103 | 18,814 | 665,153 |
| Total scrap through October 1992 | 6,936,412 | 777,921 | | 3,259,428 | 82,262 | 11,540,902 | 191,462 | 665,153 |
| Pig iron | | 76,340 | | | | 70,754 | 3,072 | 74,655 |
| Pig iron through October 1992 | | 754,804 | | | | 675,810 | 23,971 | 74,655 |

p/Preliminary.

1/Based on returns from 42% of reporting consumers, representing 58% of scrap consumption.

2/Recirculating scrap resulting from current operations.

3/Obsolete scrap includes ingot molds, stools, and scrap from old equipment, buildings, etc.

4/Home scrap includes recirculating scrap.

Table 5.-- Consumption of iron and steel scrap and pig iron in the United States
in October 1992 by type of consumer and type of furnace or other use p/
(Metric tons)

| Type of furnace or other use | Manufacturers of pig iron and raw steel and castings 1/ | | Manufacturers of steel castings 2/ | | Iron foundries and miscellaneous users | | Total all types | |
|----------------------------------|---|-----------|---------------------------------------|----------|---|----------|-----------------|-----------|
| | Scrap | Pig iron | Scrap | Pig iron | Scrap | Pig iron | Scrap | Pig iron |
| | | | | | | | | |
| Blast furnace 3/ | 191,308 | -- | -- | -- | -- | -- | 191,308 | -- |
| Basic oxygen process 4/ | 1,195,942 | 3,975,544 | -- | -- | -- | -- | 1,195,942 | 3,975,544 |
| Electric furnace | 2,602,519 | 110,635 | 239,895 | 1,876 | 478,126 | 49,300 | 3,320,540 | 161,811 |
| Cupola furnace | -- | 1,873 | 36,674 | 21 | 699,470 | 19,053 | 736,144 | 20,947 |
| Other (including air furnace) 5/ | 27,646 | -- | 501 | -- | 6,506 | 2,401 | 5/34,654 | 2,401 |
| Direct castings 6/ | -- | 5,262 | -- | -- | -- | -- | -- | 5,262 |
| Total 7/ | 4,017,415 | 4,093,314 | 277,070 | 1,897 | 1,184,102 | 70,754 | 5/5,478,587 | 4,165,965 |

p/Preliminary.

1/Includes only those castings made by companies producing raw steel.

2/Excludes companies that produce both raw steel and steel castings.

3/Includes consumption in all blast furnaces producing pig iron.

4/Includes scrap and pig iron processed in metallurgical blast cupolas and used in oxygen converters.

5/Includes vacuum melting furnaces and miscellaneous uses.

6/Includes ingot molds and stools.

7/Data do not add to total shown due to independent rounding.

Table 6.-- Manufacturers of pig iron and raw steel and castings 1/ receipts, production, consumption, shipments and stocks of pig iron and iron and steel scrap, by grade, September 1992 2/ (Metric tons)

| Item | Receipts of scrap | | | Production of home scrap | | | Shipments of scrap | Ending Stocks |
|---|---|--------------------------|------------------------|--------------------------|--|------------------|--------------------|------------------|
| | Brokers dealers and other outside sources | Other own company plants | Recirculating scrap 3/ | Obsolete scrap 4/ | Consumption of purchased and home scrap 5/ | | | |
| Scrap: | | | | | | | | |
| Carbon steel | | | | | | | | |
| Low-phosphorus plate and punchings | 36,695 | -- | -- | -- | 39,031 | -- | -- | 17,472 |
| Cut structural and plate | 118,899 | 7,189 | 39,081 | 3,328 | 177,356 | 4,678 | 165,952 | |
| No. 1 Heavy melting steel | 516,407 | 118,991 | 497,578 | 33,482 | 1,002,001 | 165,747 | 849,353 | |
| No. 2 Heavy melting steel | 322,827 | 10,910 | 53,303 | 147 | 411,325 | 4,128 | 388,199 | |
| No. 1 And electric furnace bundles | 320,516 | 40,243 | 61,694 | 147 | 390,077 | 46,547 | 340,062 | |
| No. 2 And all other bundles | 90,450 | 2,385 | 7,078 | -- | 101,347 | 37 | 75,717 | |
| Electric furnace 1 foot and under (not bundles) | 484 | 17,940 | 11 | -- | 18,600 | 372 | 2,518 | |
| Railroad rails | 29,138 | 1,195 | 1,429 | -- | 30,910 | -- | 45,104 | |
| Turnings and borings | 85,095 | 239 | 7,142 | -- | 83,832 | 738 | 87,721 | |
| Slag scrap (Fe content 79 percent) | 91,569 | 13,630 | 133,549 | 86 | 200,031 | 38,328 | 87,250 | |
| Shredded and fragmented | 390,110 | 94,058 | 7,427 | -- | 454,842 | 1,303 | 384,190 | |
| No. 1 Busheling | 127,381 | 10,320 | 7,389 | 6 | 139,679 | 12,946 | 99,340 | |
| All other carbon steel scrap | 262,712 | 27,627 | 309,850 | 8,074 | 504,510 | 92,385 | 314,095 | |
| Stainless steel scrap | 40,639 | 1,036 | 36,744 | -- | 82,941 | 967 | 48,127 | |
| Alloy steel (except stainless) | 9,056 | 8,616 | 45,557 | 26 | 60,933 | 2,409 | 103,624 | |
| Ingot mold and stool scrap | 3,899 | 8,764 | 14,601 | 19,208 | 28,178 | 12,069 | 117,914 | |
| Machinery and cupola cast iron | -- | -- | 318 | -- | -- | 212 | 2,400 | |
| Cast iron borings | 8,016 | 3 | 2 | 8 | 8,342 | 654 | 6,482 | |
| Motor blocks | -- | -- | -- | -- | -- | -- | -- | |
| Other iron scrap | 24,723 | 4,618 | 39,328 | 37 | 60,116 | 12,693 | 61,963 | |
| Other mixed scrap | 28,602 | 13,522 | 8,451 | 13 | 52,873 | 594 | 85,078 | |
| Total scrap | 2,507,218 | 381,286 | 1,270,532 | 65,055 | 5,846,924 | 396,807 | 3,282,561 | |
| Total scrap through September 1992 | 22,722,671 | 3,129,744 | 12,247,405 | 618,746 | 35,230,039 | 3,687,465 | 3,282,562 | |
| | Receipts | | | Production | | | Consumption | Shipments |
| Pig iron | 182,761 | 1,682,870 | 3,987,803 | 3,866,352 | 3,987,803 | 87,532 | 133,852 | |
| Pig iron through September 1992 | 1,682,870 | 36,389,494 | 37,452,222 | 3,866,352 | 37,452,222 | 819,862 | 133,852 | |

1/Includes only those manufacturers of steel castings that also produce raw steel.

2/Based on returns from 42% of reporting consumers, representing 59% of scrap consumption.

3/Recirculating scrap resulting from current operations.

4/Obsolete scrap includes ingot molds, stools, and scrap from old equipment, buildings, etc.

5/Home scrap includes recirculating scrap.

Table 7.-- Manufacturers of steel castings 1/ receipts, production, consumption, shipments, and stocks of pig iron and iron and steel scrap, by grade, September 1992 2/ (Metric tons)

| Item | Receipts of scrap | | | Production of home scrap | | | Shipments of scrap | Ending Stocks |
|---|-----------------------------------|--------------------------|------------------------|--------------------------|--|--------------|--------------------|---------------|
| | Brokers and other outside sources | Other own company plants | Recirculating scrap 3/ | Obsolete scrap 4/ | Consumption of purchased and home scrap 5/ | | | |
| Scrap: | | | | | | | | |
| Carbon steel | | | | | | | | |
| Low-phosphorus plate and punchings | 45,676 | -- | 12,819 | 174 | 60,057 | -- | -- | 37,998 |
| Cut structural and plate | 26,434 | 1,033 | 4,439 | 19 | 31,678 | -- | -- | 33,883 |
| No. 1 Heavy melting steel | 9,137 | -- | 8,081 | -- | 16,126 | -- | -- | 11,681 |
| No. 2 Heavy melting steel | 13,951 | -- | 136 | -- | 16,126 | -- | -- | 13,026 |
| No. 1 And electric furnace bundles | 1,123 | -- | -- | -- | 1,123 | -- | -- | 1,078 |
| No. 2 And all other bundles | 1,682 | -- | -- | -- | 1,754 | -- | -- | 1,276 |
| Electric furnace 1 foot and under (not bundles) | 4,723 | 718 | -- | -- | 5,513 | -- | -- | 3,921 |
| Railroad rails | 6,915 | -- | -- | -- | 6,733 | -- | -- | 1,724 |
| Turnings and borings | 3,011 | -- | 1,508 | -- | 4,656 | 321 | -- | 2,875 |
| Slag scrap (Fe content 79 percent) | 878 | -- | -- | -- | 1,209 | -- | -- | 4,775 |
| Shredded and fragmented | 12,689 | -- | -- | -- | 13,443 | -- | -- | 12,682 |
| No. 1 Busheling | 14,207 | -- | -- | -- | 15,148 | -- | -- | 4,357 |
| All other carbon steel scrap | 26,882 | -- | 24,573 | -- | 48,198 | 5 | -- | 43,652 |
| Stainless steel scrap | 2,837 | 44 | 1,465 | -- | 5,089 | -- | -- | 8,316 |
| Alloy steel (except stainless) | 6,648 | -- | 11,829 | -- | 16,987 | 174 | -- | 58,786 |
| Ingot mold and stool scrap | -- | -- | -- | -- | -- | -- | -- | -- |
| Machinery and cupola cast iron | 15,789 | -- | 3,137 | -- | 20,234 | -- | -- | 5,975 |
| Cast iron borings | 5,536 | -- | 1,525 | -- | 5,042 | -- | -- | 3,956 |
| Motor blocks | -- | -- | -- | -- | 19 | -- | -- | -- |
| Other iron scrap | 1,479 | -- | 3,761 | -- | 4,946 | 444 | -- | 12,556 |
| Other mixed scrap | -- | -- | 862 | -- | 862 | -- | -- | 181 |
| Total scrap | 198,597 | 1,795 | 74,135 | 193 | 273,943 | 944 | 6/261,699 | |
| Total scrap through September 1992 | 1,625,747 | 16,336 | 593,483 | 963 | 2,199,176 | 8,490 | 261,699 | |
| Pig iron | | | | | | | | |
| | Receipts | | | Production | | | Stocks | |
| Pig iron through September 1992 | 2,354 | -- | 2,679 | -- | 2,679 | 88 | 4,797 | |
| Pig iron through September 1992 | 16,944 | -- | 16,545 | -- | 16,545 | 792 | 4,797 | |

1/Excludes companies that produce both raw steel and castings.
2/Based on returns from 40% of reporting consumers, representing 44% of scrap consumption.
3/Recirculating scrap resulting from current operations.
4/Obsolete scrap includes ingot molds, stools, and scrap from old equipment, buildings, etc.
5/Home scrap includes recirculating scrap.
6/Data do not add to total shown due to independent rounding.

Table 8.-- Iron foundries and miscellaneous users receipts, production, consumption, shipments, and stocks of pig iron and iron and steel scrap, by grade, September 1992 1/ (Metric tons)

| Item | Receipts of scrap | | | Production of home scrap | | | Shipments of scrap | Ending Stocks |
|---|-----------------------------------|--------------------------|------------------------|--------------------------|--|---------|--------------------|---------------|
| | Brokers and other outside sources | Other own company plants | Recirculating scrap 2/ | Obsolete scrap 3/ | Consumption of purchased and home scrap 4/ | | | |
| Scrap: | | | | | | | | |
| Carbon steel | | | | | | | | |
| Low-phosphorus plate and punchings | 94,793 | 2,386 | 11,411 | 3,119 | 111,906 | 319 | 55,704 | |
| Cut structural and plate | 82,067 | 626 | 7,057 | -- | 89,844 | 32 | 43,999 | |
| No. 1 Heavy melting steel | 15,765 | 8,292 | 21,004 | -- | 32,334 | 12,532 | 30,727 | |
| No. 2 Heavy melting steel | 16,590 | -- | 6,392 | -- | 21,993 | 3,176 | 3,176 | |
| No. 1 And electric furnace bundles | 7,443 | 9,550 | 1,080 | -- | 18,638 | -- | 3,073 | |
| No. 2 And all other bundles | 20,271 | -- | -- | -- | 17,916 | -- | 21,454 | |
| Electric furnace 1 foot and under (not bundles) | 3,879 | 679 | -- | -- | 4,824 | -- | 706 | |
| Railroad rails | 16,559 | -- | 174 | -- | 16,779 | 174 | 12,624 | |
| Turnings and borings | 30,131 | 135 | 327 | -- | 27,002 | 171 | 34,872 | |
| Slag scrap (Fe content 79 percent) | 3,776 | -- | 95 | -- | 3,754 | 168 | 1,156 | |
| Shredded and fragmented | 79,205 | 8,559 | -- | -- | 141,094 | -- | 36,684 | |
| No. 1 Busheling | 35,552 | 7,907 | 2,391 | -- | 51,901 | -- | 11,506 | |
| All other carbon steel scrap | 43,287 | -- | 1,214 | -- | 45,897 | -- | 63,446 | |
| Stainless steel scrap | 710 | -- | 584 | -- | 851 | -- | 5,704 | |
| Alloy steel (except stainless) | 2,335 | -- | 762 | -- | 3,023 | 12 | 13,098 | |
| Ingot mold and stool scrap | 10,324 | 959 | 13,662 | 25 | 32,865 | -- | 7,604 | |
| Machinery and cupola cast iron | 93,646 | 17,010 | 16,703 | 2,191 | 127,628 | 218 | 124,048 | |
| Cast iron borings | 26,647 | 15,760 | 5,916 | -- | 48,849 | 332 | 31,711 | |
| Motor blocks | 31,727 | 5,059 | 44,904 | -- | 82,212 | 1,145 | 28,438 | |
| Other iron scrap | 44,560 | 2,471 | 152,816 | 75 | 197,378 | 1,377 | 65,096 | |
| Other mixed scrap | 39,145 | 76 | 32,158 | 64 | 75,726 | 1,587 | 52,641 | |
| Total scrap | 698,412 | 79,469 | 318,650 | 5,474 | 1,152,414 | 17,802 | 576,474 | |
| Total scrap through September 1992 | 6,203,125 | 695,342 | 2,927,677 | 75,211 | 10,356,800 | 172,648 | 647,466 | |
| Pig iron | Receipts | | | Production | | | Stocks | |
| Pig iron through September 1992 | 77,743 | | | 72,784 | | | 627 | 81,597 |
| Pig iron through September 1992 | 678,465 | | | 605,056 | | | 20,899 | 81,597 |

1/Based on returns from 46% of reporting consumers, representing 59% of scrap consumption.

2/Recirculating scrap resulting from current operations.

3/Obsolete scrap includes ingot molds, stools, and scrap from old equipment, buildings, etc.

4/Home scrap includes recirculating scrap.

5/Data do not add to total shown due to independent rounding.

Table 9.-- Consumption of iron and steel scrap and pig iron in the United States in September 1992 by type of consumer and type of furnace or other use (Metric tons)

| Type of furnace or other use | Manufacturers of pig iron and raw steel and castings 1/ | | Manufacturers of steel castings 2/ | | Iron foundries and miscellaneous users | | Total all types | |
|----------------------------------|---|-----------|------------------------------------|----------|--|----------|-----------------|-----------|
| | Scrap | Pig iron | Scrap | Pig iron | Scrap | Pig iron | Scrap | Pig iron |
| Blast furnace 3/ | 181,421 | -- | -- | -- | -- | -- | 181,421 | -- |
| Basic oxygen process 4/ | 1,167,027 | 3,980,116 | -- | -- | -- | -- | 1,167,027 | 3,980,116 |
| Electric furnace | 2,470,940 | 552 | 236,112 | 2,679 | 472,686 | 49,856 | 3,179,738 | 53,087 |
| Cupola furnace | -- | 1,873 | 37,293 | -- | 671,996 | 20,491 | 709,290 | 22,564 |
| Other (including air furnace) 5/ | 27,536 | -- | 537 | -- | 7,732 | 2,438 | 35,805 | 2,438 |
| Direct castings 6/ | -- | 5,262 | -- | -- | -- | -- | -- | 5,262 |
| Total 7/ | 3,846,924 | 3,987,803 | 273,942 | 2,679 | 1,152,414 | 72,785 | 5,273,281 | 4,063,266 |

1/Includes only those castings made by companies producing raw steel.

2/Excludes companies that produce both raw steel and steel castings.

3/Includes consumption in all blast furnaces producing pig iron.

4/Includes scrap and pig iron processed in metallurgical blast cupolas and used in oxygen converters.

5/Includes vacuum melting furnaces and miscellaneous uses.

6/Includes ingot molds and stools.

7/Data do not add to total shown due to independent rounding.

Table 10.--U.S. exports of iron and steel scrap^{1/}, by country
(Metric tons and U.S. dollars)

| Country | September 1992 | | Year to date | |
|-----------------------------------|----------------|--------------|----------------|------------------|
| | Quantity | Value | Quantity | Value |
| Argentina----- | 45 | 27,250 | 216 | 195,284 |
| Australia----- | 46 | 65,633 | 208 | 137,991 |
| Austria----- | -- | -- | 386 | 105,871 |
| Bangladesh----- | -- | -- | 18 | 18,544 |
| Barbados----- | -- | -- | 5 | 3,296 |
| Belgium----- | 648 | 550,011 | 2,824 | 1,968,531 |
| Bermuda----- | 10 | 10,500 | 19 | 15,256 |
| Brazil----- | -- | -- | 147 | 23,009 |
| Canada----- | 100,099 | 11,277,798 | 833,461 | 94,623,384 |
| Chile----- | 21 | 20,800 | 63 | 36,084 |
| China----- | 32,917 | 5,207,408 | 101,204 | 20,855,375 |
| Colombia----- | 11,755 | 873,669 | 91,260 | 6,952,725 |
| Costa Rica----- | -- | -- | 793 | 472,252 |
| Dominican Republic-- | -- | -- | 51 | 19,486 |
| Ecuador----- | 138 | 76,277 | 188 | 92,390 |
| Finland----- | 76 | 41,712 | 144 | 63,310 |
| France----- | -- | -- | 2,171 | 2,58,393 |
| Germany----- | 495 | 100,741 | 3,237 | 855,211 |
| Greece----- | -- | -- | 62 | 6,212 |
| Guatemala----- | -- | -- | 3,445 | 835,302 |
| Haiti----- | -- | -- | 93 | 34,903 |
| Honduras----- | -- | -- | 1,475 | 317,371 |
| Hong Kong----- | 6,359 | 4,172,204 | 55,789 | 22,034,087 |
| India----- | 89,991 | 10,737,747 | 1,013,801 | 110,299,579 |
| Indonesia----- | 56,975 | 5,761,202 | 145,579 | 15,163,026 |
| Ireland----- | 39 | 3,696 | 830 | 213,256 |
| Israel----- | 18 | 4,346 | 554 | 142,784 |
| Italy----- | 4,414 | 1,071,922 | 70,105 | 8,679,893 |
| Japan----- | 4,967 | 3,175,298 | 58,906 | 37,104,987 |
| Kiribati----- | 16 | 15,060 | 199 | 90,295 |
| Korea, Republic of-- | 2/198,087 | 2/29,349,969 | 2/ 3/1,471,458 | 2/ 3/170,530,458 |
| Kuwait----- | -- | -- | 9 | 20,500 |
| Malaysia----- | 136 | 19,827 | 34,589 | 3,419,463 |
| Mexico----- | 76,896 | 8,261,712 | 442,710 | 49,456,986 |
| Montserrat----- | -- | -- | 6 | 4,000 |
| Netherlands----- | 405 | 277,775 | 5,793 | 4,163,375 |
| New Zealand----- | -- | -- | 747 | 403,901 |
| Norway----- | -- | -- | 124 | 137,490 |
| Pakistan----- | 132 | 143,488 | 89,779 | 10,617,329 |
| Panama----- | -- | -- | 10 | 10,000 |
| Peru----- | 20 | 11,651 | 72,778 | 6,671,156 |
| Philippines----- | 505 | 118,386 | 3,401 | 843,868 |
| Saudi Arabia----- | -- | -- | 46 | 4,300 |
| Singapore----- | 54 | 3,000 | 27,516 | 3,157,974 |
| South Africa, Republic of----- | 877 | 93,373 | 27,376 | 1,555,652 |
| Spain----- | 9,378 | 5,348,158 | 85,021 | 27,629,142 |
| Sweden----- | 632 | 459,623 | 2,387 | 2,216,907 |
| Switzerland----- | 27 | 2,528 | 334 | 34,226 |
| Taiwan----- | 34,778 | 3,645,130 | 375,404 | 44,120,175 |
| Thailand----- | 166 | 87,823 | 75,039 | 10,294,893 |
| Turkey----- | 263,612 | 24,638,398 | 1,613,029 | 154,875,173 |
| United Kingdom----- | 646 | 140,990 | 5,618 | 1,608,688 |
| Uruguay----- | -- | -- | 63 | 26,773 |
| Venezuela----- | 433 | 162,795 | 52,485 | 6,038,089 |
| Grand total----- | 895,813 | 115,957,900 | 6,770,955 | 819,258,605 |

^{1/}Excludes used rails for rerolling and other uses and ships, boats and other vessels for scrapping.

^{2/}All or part of these data have been referred to the Bureau of Census for verification.

^{3/}Data revised by the Bureau of Census.

Source: Bureau of the Census.

Table 11.--U.S. exports of iron and steel scrap and other ferrous products, by grade
(Metric tons and U.S. dollars)

| Grade of scrap | September 1992 | | Year to date | |
|---|----------------|--------------------|------------------|--------------------|
| | Quantity | Value | Quantity | Value |
| No. 1 heavy melting steel scrap----- | 248,630 | 24,005,602 | 1,514,704 | 148,103,897 |
| No. 2 heavy melting steel scrap----- | 89,822 | 7,937,336 | 569,471 | 52,210,064 |
| No. 1 bundles----- | 3,067 | 269,409 | 86,121 | 7,815,755 |
| No. 2 bundles----- | 25,630 | 1,876,345 | 138,230 | 10,219,526 |
| Shredded steel scrap----- | 246,748 | 25,892,831 | 2,212,111 | 225,310,918 |
| Borings, shovelings and turnings---- | 14,292 | 1,044,939 | 156,855 | 11,310,038 |
| Cut plate and structural----- | 17,423 | 1,715,108 | 215,909 | 24,096,626 |
| Tinned iron or steel----- | 4,434 | 980,416 | 42,648 | 9,581,042 |
| Remelting scrap ingots----- | 1,861 | 1,395,781 | 1/2,233 | 1/1,852,812 |
| Cast iron----- | 141,448 | 12,989,167 | 783,982 | 80,160,253 |
| Other iron and steel----- | 47,672 | 8,799,860 | 2/670,448 | 2/82,617,019 |
| Total carbon steel and cast iron- | 840,027 | 85,906,794 | 6,392,712 | 653,277,950 |
| Stainless steel----- | 34,451 | 24,494,496 | 170,393 | 116,574,394 |
| Other alloy steel----- | 21,335 | 5,556,610 | 207,850 | 49,406,261 |
| Total stainless and alloy steel-- | 55,786 | 30,051,106 | 378,243 | 165,980,655 |
| Total carbon, stainless, alloy steel and cast iron----- | 895,813 | 115,957,900 | 6,770,955 | 819,258,605 |
| Ships, boats and other vessels for breaking up (for scrapping)---- | 121 | 20,000 | 62,004 | 6,025,976 |
| Used rails for rerolling and other uses3/----- | 1,107 | 575,882 | 14,049 | 4,242,661 |
| Total scrap exports----- | 897,041 | 116,553,782 | 6,847,008 | 829,527,242 |
| EXPORTS OF MANUFACTURED FERROUS PRODUCTS: | | | | |
| Pig iron < or = 0.5% phosphorus----- | 2,326 | 230,297 | 14,944 | 1,448,063 |
| Pig iron > 0.5% phosphorus----- | -- | -- | 2,037 | 258,551 |
| Alloy pig iron----- | 337 | 29,689 | 4,180 | 443,041 |
| Total pig iron----- | 2,663 | 259,986 | 21,161 | 2,149,655 |
| Direct reduced iron (DRI)----- | 2,636 | 555,241 | 17,899 | 3,625,172 |
| Ferrous granules----- | 1,920 | 1,888,782 | 19,115 | 16,809,364 |
| Powders of alloy steel----- | 406 | 415,097 | 3,689 | 4,813,551 |
| Other ferrous powders----- | 1,088 | 1,884,371 | 11,498 | 15,887,040 |
| Total DRI, granules and powders---- | 6,050 | 4,743,491 | 52,201 | 41,135,127 |
| Grand total----- | 905,754 | 121,557,259 | 6,920,370 | 872,812,024 |

1/All of part of these data have been referred to the Bureau of Census for verification.
2/Data revised by the Bureau of Census.
3/Total export contained mixed (used plus new) rails. For month of September: 474 metric tons valued at \$395,087; for year to date: 1,817 metric tons valued at \$1,425,699.

Source: Bureau of the Census.

Table 12.--U.S. imports for consumption of iron and steel scrap^{1/}, by country
(Metric tons and U.S. dollars)

| Country | September 1992 | | Year to date | |
|------------------------------|----------------|------------|--------------|--------------|
| | Quantity | Value | Quantity | Value |
| Aruba----- | 24 | 11,242 | 121 | 117,563 |
| Australia----- | -- | -- | 1 | 2,262 |
| Bahamas----- | 30 | 3,000 | 109 | 11,500 |
| Belgium----- | -- | -- | 3 | 15,213 |
| Brazil----- | 19 | 12,441 | 313 | 232,757 |
| Canada----- | 72,593 | 7,980,183 | 2/658,724 | 2/68,468,100 |
| China----- | -- | -- | 19 | 17,797 |
| Colombia----- | -- | -- | 346 | 205,113 |
| Costa Rica----- | -- | -- | 140 | 2,391 |
| Dominican Republic--- | 40 | 10,000 | 45 | 13,373 |
| El Salvador----- | 17 | 3,770 | 44 | 9,708 |
| France----- | -- | -- | 38 | 155,647 |
| Germany----- | 1 | 1,524 | 149 | 563,885 |
| Ireland----- | -- | -- | 1 | 12,000 |
| Israel----- | -- | -- | 43 | 42,392 |
| Italy----- | -- | -- | 126 | 122,885 |
| Jamaica----- | 7,581 | 373,056 | 7,681 | 379,056 |
| Japan----- | 7,926 | 873,179 | 66,269 | 9,920,265 |
| Korea, Republic of--- | -- | -- | 470 | 202,099 |
| Mexico----- | 3,787 | 1,682,881 | 49,145 | 13,537,293 |
| Netherlands----- | 291 | 108,284 | 351 | 281,947 |
| Netherlands Antilles- | -- | -- | 63 | 31,324 |
| Norway----- | -- | -- | 70 | 35,421 |
| Panama----- | 28 | 4,575 | 42 | 10,139 |
| Philippines----- | -- | -- | 1,963 | 977,074 |
| Qatar----- | -- | -- | 36 | 2,937 |
| Singapore----- | -- | -- | 552 | 17,045 |
| Switzerland----- | 2 | 5,554 | 62 | 119,663 |
| Taiwan----- | -- | -- | 3 | 3,668 |
| Trinidad and Tobago-- | -- | -- | 179 | 18,382 |
| U.S.S.R. ^{3/} ----- | -- | -- | 14 | 109,944 |
| United Arab Emirates- | -- | -- | 6 | 6,525 |
| United Kingdom----- | 9 | 26,701 | 2,348 | 769,228 |
| Uruguay----- | -- | -- | 2 | 4,600 |
| Venezuela----- | 4/20,143 | 4/426,471 | 4/134,224 | 4/12,653,724 |
| Grand total----- | 112,491 | 11,522,861 | 923,702 | 109,072,920 |

1/Includes tinplate and terneplate; excludes used rails for rerolling and other uses, and ships, boats and other vessels for scrapping.

2/Data revised by the Bureau of Census.

3/The Bureau of Census will not provide import or export data for the countries of the former U.S.S.R. until such time as that data are deemed reliable.

4/All or part of these data have been referred to the Bureau of Census for verification.

Source: Bureau of the Census.

Table 13.--U.S. imports for consumption of iron and steel scrap and other ferrous products, by grade (Metric tons and U.S. dollars)

| Grade of scrap | September 1992 | | Year to date | |
|---|----------------|------------|--------------|--------------|
| | Quantity | Value | Quantity | Value |
| No. 1 heavy melting steel scrap----- | 3,541 | 324,477 | 28,864 | 2,693,699 |
| No. 2 heavy melting steel scrap----- | 490 | 46,744 | 4,645 | 401,745 |
| No. 1 bundles----- | 5,756 | 590,642 | 56,049 | 5,995,023 |
| No. 2 bundles----- | 1,002 | 110,926 | 6,838 | 721,717 |
| Shredded steel scrap----- | 5,752 | 587,085 | 32,541 | 3,367,183 |
| Borings, shovelings and turnings---- | 2,481 | 219,676 | 19,467 | 1,765,686 |
| Cut plate and structural----- | 279 | 21,806 | 6,588 | 599,774 |
| Tinned iron or steel----- | 1,443 | 220,760 | 25,968 | 6,675,997 |
| Remelting scrap ingots----- | 1/314 | 1/374,484 | 1/34,844 | 1/10,307,899 |
| Cast iron----- | 3,655 | 550,260 | 53,588 | 6,433,942 |
| Other iron and steel----- | 51,867 | 4,434,648 | 2/512,931 | 2/38,382,031 |
| Total carbon steel and cast iron----- | 76,580 | 7,481,508 | 782,323 | 77,344,696 |
| Stainless steel----- | 23,293 | 2,181,400 | 45,896 | 16,067,278 |
| Other alloy steel----- | 12,618 | 1,859,953 | 95,483 | 15,660,946 |
| Total stainless and alloy steel-- | 35,911 | 4,041,353 | 141,379 | 31,728,224 |
| Total carbon, stainless, alloy steel and cast iron----- | 112,491 | 11,522,861 | 923,702 | 109,072,920 |
| Ships, boats and other vessels for breaking up (for scrapping)---- | -- | -- | -- | -- |
| Used rails for rerolling and other uses----- | 7,155 | 1,341,667 | 55,692 | 10,866,457 |
| Total scrap imports----- | 119,646 | 12,864,528 | 979,394 | 119,939,377 |
| IMPORTS OF MANUFACTURED FERROUS PRODUCTS: | | | | |
| Pig iron < or = 0.5% phosphorus----- | 23,213 | 3,577,284 | 304,229 | 44,722,553 |
| Pig iron > 0.5% phosphorus----- | -- | -- | -- | -- |
| Alloy pig iron----- | 108 | 27,574 | 29,787 | 4,671,032 |
| Total pig iron----- | 23,321 | 3,604,858 | 334,016 | 49,393,585 |
| Direct reduced iron (DRI)----- | 72,570 | 7,442,946 | 432,947 | 45,396,486 |
| Ferrous granules----- | 989 | 698,250 | 8,454 | 6,009,250 |
| Powders of alloy steel----- | 119 | 340,619 | 1,089 | 3,785,449 |
| Other ferrous powders----- | 5,340 | 4,045,659 | 41,071 | 36,585,668 |
| Total DRI, granules and powders-- | 79,018 | 12,527,474 | 483,561 | 91,776,853 |
| Grand total----- | 221,985 | 28,996,860 | 1,796,971 | 261,109,815 |

1/All or part of these data have been referred to the Bureau of Census for verification.
2/Data been revised by the Bureau of Census.

Source: Bureau of the Census.

Table 14A.--U.S. exports and re-exports of iron and steel scrap in September 1992, by customs district1/
(Metric tons and U.S. dollars)

| Customs district | Code | Exports | | Re-exports | | Exports plus re-exports | |
|------------------------|-------|----------|-------------|------------|---------|-------------------------|-------------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Baltimore, MD----- | 13 | 546 | 460,920 | -- | -- | 546 | 460,920 |
| Boston, MA----- | 04 | 98,744 | 9,158,632 | -- | -- | 98,744 | 9,158,632 |
| Buffalo, NY----- | 09 | 8,075 | 1,657,440 | -- | -- | 8,075 | 1,657,440 |
| Charleston, SC----- | 16 | 296 | 91,726 | -- | -- | 296 | 91,726 |
| Chicago, IL----- | 39 | 113 | 10,621 | -- | -- | 113 | 10,621 |
| Cleveland, OH----- | 41 | 6,011 | 651,701 | -- | -- | 6,011 | 651,701 |
| Columbia - Snake----- | 29 | 25,106 | 2,888,382 | -- | -- | 25,106 | 2,888,382 |
| Detroit, MI----- | 38 | 17,008 | 2,852,310 | -- | -- | 17,008 | 2,852,310 |
| Duluth, MN----- | 36 | 241 | 19,244 | -- | -- | 241 | 19,244 |
| El Paso, TX----- | 24 | 415 | 62,685 | -- | -- | 415 | 62,685 |
| Great Falls, MT----- | 33 | 129 | 23,011 | -- | -- | 129 | 23,011 |
| Honolulu, HI----- | 32 | 190 | 87,842 | -- | -- | 190 | 87,842 |
| Houston-Galveston, TX- | 53 | 11,046 | 6,258,872 | -- | -- | 11,046 | 6,258,872 |
| Laredo, TX----- | 23 | 36,566 | 4,401,248 | 396 | 50,282 | 36,962 | 4,451,530 |
| Los Angeles, CA----- | 27 | 180,397 | 21,642,690 | 70 | 48,273 | 180,467 | 21,690,963 |
| Miami, FL----- | 52 | 232 | 116,665 | -- | -- | 232 | 116,665 |
| New Orleans, LA----- | 20 | 19,335 | 12,929,255 | -- | -- | 19,335 | 12,929,255 |
| New York, NY----- | 10 | 121,104 | 11,760,458 | 18 | 5,295 | 121,122 | 11,765,753 |
| Norfolk, VA----- | 14 | 34,045 | 3,313,905 | -- | -- | 34,045 | 3,313,905 |
| Ogdensburg, NY----- | 07 | 658 | 322,836 | -- | -- | 658 | 322,836 |
| Pembina, ND----- | 34 | 29,942 | 2,844,997 | -- | -- | 29,942 | 2,844,997 |
| Philadelphia, PA----- | 11 | 45,861 | 4,362,639 | -- | -- | 45,861 | 4,362,639 |
| Portland, ME----- | 01 | 34,120 | 3,087,328 | -- | -- | 34,120 | 3,087,328 |
| Providence, RI----- | 05 | 53,501 | 5,301,433 | -- | -- | 53,501 | 5,301,433 |
| San Diego, CA----- | 25 | 1,573 | 158,175 | -- | -- | 1,573 | 158,175 |
| San Francisco, CA----- | 28 | 29,466 | 7,059,263 | -- | -- | 29,466 | 7,059,263 |
| San Juan, PR----- | 49 | 20 | 15,544 | -- | -- | 20 | 15,544 |
| Savannah, GA----- | 17 | 424 | 314,941 | -- | -- | 424 | 314,941 |
| Seattle, WA----- | 30 | 2/54,458 | 2/6,714,295 | -- | -- | 54,458 | 6,714,295 |
| St Albans, VT----- | 02 | 196 | 123,802 | -- | -- | 196 | 123,802 |
| Tampa, FL----- | 18 | 44,121 | 4,059,444 | -- | -- | 44,121 | 4,059,444 |
| Virgin Islands----- | 51 | 1,299 | 100,000 | -- | -- | 1,299 | 100,000 |
| Wilmington, NC----- | 15 | 92 | 16,515 | -- | -- | 92 | 16,515 |
| Other3/----- | 70,80 | 40,483 | 3,089,081 | -- | -- | 40,483 | 3,089,081 |
| Grand total----- | | 895,813 | 115,957,900 | 484 | 103,850 | 896,297 | 116,061,750 |

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

2/All or part of these data have been referred to the Bureau of Census for verification.

3/"Other" includes Code 70, which is for low-valued exports and imports between the U.S. and Canada, and Code 80, which is for items that leave the U.S. by mail.

Source: Bureau of the Census.

Table 148.--U.S. exports and re-exports of iron and steel scrap^{1/}
in January - September 1992, by customs district (continued)
(Metric tons and U.S. dollars)

| Customs district | Code | Exports | | Re-exports | | Exports plus re-exports | |
|---------------------------|-------|-------------|---------------|------------|---------|-------------------------|-------------|
| | | Quantity | Value | Quantity | Value | Quantity | Value |
| Anchorage, AK----- | 31 | 21,489 | 2,171,283 | -- | -- | 21,489 | 2,171,283 |
| Baltimore, MD----- | 13 | 5,891 | 4,664,066 | -- | -- | 5,891 | 4,664,066 |
| Boston, MA----- | 04 | 540,126 | 51,132,415 | -- | -- | 540,126 | 51,132,415 |
| Buffalo, NY----- | 09 | 51,732 | 11,536,278 | -- | -- | 51,732 | 11,536,278 |
| Charleston, SC----- | 16 | 6,165 | 1,711,000 | -- | -- | 6,165 | 1,711,000 |
| Chicago, IL----- | 39 | 12,372 | 1,440,050 | -- | -- | 12,372 | 1,440,050 |
| Cleveland, OH----- | 41 | 2/21,162 | 2/1,584,416 | -- | -- | 21,162 | 1,584,416 |
| Columbia - Snake----- | 29 | 3/77,575 | 3/10,895,142 | -- | -- | 77,575 | 10,895,142 |
| Detroit, MI----- | 38 | 238,543 | 30,422,806 | 42 | 9,662 | 238,585 | 30,432,468 |
| Duluth, MN----- | 36 | 1,573 | 147,472 | -- | -- | 1,573 | 147,472 |
| El Paso, TX----- | 24 | 5,756 | 770,769 | -- | -- | 5,756 | 770,769 |
| Great Falls, MT----- | 33 | 3,364 | 332,882 | -- | -- | 3,364 | 332,882 |
| Honolulu, HI----- | 32 | 77,506 | 9,136,898 | -- | -- | 77,506 | 9,136,898 |
| Houston-Galveston, TX- | 53 | 58,718 | 23,278,573 | -- | -- | 58,718 | 23,278,573 |
| Laredo, TX----- | 23 | 308,713 | 37,064,222 | 1,004 | 121,467 | 309,717 | 37,185,689 |
| Los Angeles, CA----- | 27 | 2/1,053,643 | 2/139,227,977 | 212 | 155,371 | 1,053,855 | 139,383,348 |
| Miami, FL----- | 52 | 129,221 | 12,466,439 | 80 | 5,000 | 129,301 | 12,471,439 |
| Mobile, AL----- | 19 | 3,390 | 619,234 | -- | -- | 3,390 | 619,234 |
| New Orleans, LA----- | 20 | 242,463 | 51,732,878 | -- | -- | 242,463 | 51,732,878 |
| New York, NY----- | 10 | 981,550 | 108,803,163 | 216 | 30,495 | 981,766 | 108,833,658 |
| Nogales, AZ----- | 26 | 1,586 | 166,602 | -- | -- | 1,586 | 166,602 |
| Norfolk, VA----- | 14 | 116,693 | 14,482,643 | -- | -- | 116,693 | 14,482,643 |
| Ogdensburg, NY----- | 07 | 10,442 | 4,289,607 | -- | -- | 10,442 | 4,289,607 |
| Pembina, ND----- | 34 | 271,712 | 27,129,290 | -- | -- | 271,712 | 27,129,290 |
| Philadelphia, PA----- | 11 | 543,416 | 52,475,978 | -- | -- | 543,416 | 52,475,978 |
| Portland, ME----- | 01 | 267,143 | 25,071,086 | -- | -- | 267,143 | 25,071,086 |
| Providence, RI----- | 05 | 192,771 | 18,939,971 | -- | -- | 192,771 | 18,939,971 |
| San Diego, CA----- | 25 | 11,190 | 1,210,063 | -- | -- | 11,190 | 1,210,063 |
| San Francisco, CA----- | 28 | 569,493 | 77,518,559 | -- | -- | 569,493 | 77,518,559 |
| San Juan, PR----- | 49 | 46,707 | 3,245,835 | -- | -- | 46,707 | 3,245,835 |
| Savannah, GA----- | 17 | 3,014 | 1,820,142 | -- | -- | 3,014 | 1,820,142 |
| Seattle, WA----- | 30 | 2/333,795 | 2/42,396,833 | 2 | 5,600 | 333,797 | 42,402,433 |
| St Albans, VT----- | 02 | 2,441 | 846,896 | -- | -- | 2,441 | 846,896 |
| Tampa, FL----- | 18 | 248,824 | 25,167,240 | -- | -- | 248,824 | 25,167,240 |
| Virgin Islands----- | 51 | 1,299 | 100,000 | -- | -- | 1,299 | 100,000 |
| Wilmington, NC----- | 15 | 478 | 71,715 | -- | -- | 478 | 71,715 |
| Other ^{4/} ----- | 70,80 | 308,999 | 25,188,182 | -- | -- | 308,999 | 25,188,182 |
| Grand total ----- | | 6,770,955 | 819,258,605 | 1,556 | 327,595 | 6,772,511 | 819,586,200 |

^{1/}Excludes used rails for rerolling and other uses and ships, boats and other vessels for scrapping.

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

^{2/}All or part of these data have been referred to the Bureau of Census for verification.

^{3/}Data revised by the Bureau of Census.

^{4/}"Other" includes Code 70, which is for low-valued exports and imports between the U.S. and Canada, and Code 80, which is for items that leave the U.S. by mail.

Source: Bureau of the Census.

Table 15.--U.S. imports for consumption of iron and steel scrap^{1/},
by customs district in September 1992
(Metric tons and U.S. dollars)

| Customs District | Code | September 1992 | | Year to date | |
|------------------------|------|----------------|-------------|--------------|-------------|
| | | Quantity | Value | Quantity | Value |
| Baltimore, MD----- | 13 | 9 | 26,701 | 77,979 | 1,887,156 |
| Boston, MA----- | 04 | -- | -- | 650 | 58,000 |
| Buffalo, NY----- | 09 | 8,364 | 1,637,881 | 73,770 | 13,513,151 |
| Charleston, SC----- | 16 | -- | -- | 19,136 | 3,128,287 |
| Chicago, IL----- | 39 | 4,864 | 226,233 | 4,911 | 373,084 |
| Cleveland, OH----- | 41 | 4,252 | 544,000 | 59,605 | 3,400,617 |
| Dallas-Fort Worth, TX- | 55 | -- | -- | 2/1 | 2/11,533 |
| Detroit, MI----- | 38 | 29,675 | 3,152,389 | 278,098 | 28,752,326 |
| Duluth, MN----- | 36 | -- | -- | 297 | 443,860 |
| El Paso, TX----- | 24 | 1,014 | 203,542 | 23,813 | 1,709,620 |
| Great Falls, MT----- | 33 | 85 | 6,499 | 776 | 179,878 |
| Honolulu, HI----- | 32 | -- | -- | 18,965 | 4,989,397 |
| Houston-Galveston, TX- | 53 | 20,090 | 135,184 | 21,125 | 867,163 |
| Laredo, TX----- | 23 | 3/2,137 | 3/1,274,581 | 19,705 | 10,090,242 |
| Los Angeles, CA----- | 27 | 238 | 9,000 | 2,004 | 344,444 |
| Miami, FL----- | 52 | 125 | 39,168 | 522 | 136,812 |
| New Orleans, LA----- | 20 | 9,673 | 900,363 | 3/42,604 | 3/9,210,741 |
| New York, NY----- | 10 | 22 | 14,914 | 2,301 | 1,448,070 |
| Nogales, AZ----- | 26 | 63 | 45,789 | 230 | 291,199 |
| Norfolk, VA----- | 14 | -- | -- | 97 | 108,315 |
| Ogdensburg, NY----- | 07 | 2,296 | 545,150 | 16,589 | 3,434,576 |
| Pembina, ND----- | 34 | 326 | 181,131 | 3,263 | 1,378,841 |
| Philadelphia, PA----- | 11 | -- | -- | 37 | 156,872 |
| Portland, ME----- | 01 | 106 | 13,239 | 1,839 | 233,802 |
| San Diego, CA----- | 25 | 657 | 277,701 | 6,188 | 2,355,832 |
| San Francisco, CA----- | 28 | -- | -- | 3 | 3,668 |
| Savannah, GA----- | 17 | -- | -- | 60 | 15,970 |
| Seattle, WA----- | 30 | 28,331 | 2,247,362 | 247,370 | 20,281,360 |
| St Albans, VT----- | 02 | 143 | 23,198 | 1,702 | 235,428 |
| Tampa, FL----- | 18 | 21 | 18,836 | 62 | 32,676 |
| Grand total----- | | 112,491 | 11,522,861 | 923,702 | 109,072,920 |

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

2/Data verified as correct by the Bureau of Census.

3/All or part of these data have been referred to the Bureau of Census for verification.

Source: Bureau of the Census.