

**16** DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES

**General** - The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in **2**. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies that are not listed, describe and report them in the "Cost of all other materials . . ." at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials . . ." Census material code 009700 99 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

**Valuation of Materials Consumed** - The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amount actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

**Contract Work** - Include all materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in **15**, line A5, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.

**Resales** - Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in **15**, line A2, not in **16**. The value of these products shipped by this establishment should be reported in **2** under Census product code 000999 8900 6, "Resales."

**Toll Operations** - Tolling must be performed for customers outside your own company. If the work is done for other establishments within your company, the value of the materials consumed in the tolling operation should be reported in your cost of materials data and the processed value of the products should be reported as a product shipment and a corresponding interplant transfer.

The figure for coal, line 33, should represent the amounts used as a raw material for the production of coke. Coal purchased for heat and power should be reported in **15**.

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| Line No. | Materials, parts, and supplies   | Census material code | Unit of measure for quantities | Consumption of purchased materials and of materials received from other establishments of your company |  |      |       |
|----------|--|----------------------|--------------------------------|--|--|------|-------|
|          |  |                      |                                | Quantity   | Cost, including delivery cost (freight-in) |      |       |
|          |  |                      |                                |  | \$ Bil.                                    | Mil. | Thou. |
| 0634     |  | 0630                 | 0636                           | 0632   | 0631                                       |      |       |
| <b>1</b> | Shapes and forms (excluding castings, forgings, and fabricated metal products) |                      | ↑<br>short tons<br>↓           |  |  |      |       |
|          | Ferrous  |                      |                                |  |  |      |       |
|          | Steel  |                      |                                |  |  |      |       |
| <b>2</b> | Rod for wiredrawing . . . . .  | 331200 81 6          |                                |  |  |      |       |
| <b>3</b> | Wire for redrawing . . . . .   | 331200 67 5          |                                |  |  |      |       |
| <b>4</b> | All other steel shapes and forms . . . . .                                     | 331200 75 8          |                                |  |  |      |       |
| <b>5</b> | Ferroalloys  |                      | ↑<br>short tons<br>↓           |  |  |      |       |
|          | Ferromanganese, silicomanganese, and manganese . . . . .                       | 331112 03 7          |                                |  |  |      |       |
|          | Ferrochromium . . . . .  | 331112 05 2          |                                |  |  |      |       |

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**16** DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued

| Line No.  | Materials, parts, and supplies  | Census material code | Unit of measure for quantities | Consumption of purchased materials and of materials received from other establishments of your company |  |      |       |  |
|-----------|---|----------------------|--------------------------------|--|--|------|-------|--|
|           |   |                      |                                | Quantity   | Cost, including delivery cost (freight-in) |      |       |  |
|           |   |                      |                                |  | \$ Bil.                                    | Mil. | Thou. |  |
| 0634      |   | 0630                 | 0636                           | 0632   | 0631                                       |      |       |  |
|           | Shapes and forms (excluding castings, forgings, and fabricated metal products) - Continued              |                      |                                |  |  |      |       |  |
|           | Ferrous - Continued   |                      |                                |  |  |      |       |  |
|           | Ferroalloys - Continued   |                      |                                |  |  |      |       |  |
| <b>6</b>  | Ferrosilicon (more than 8 percent silicon)  | 331112 07 8          | ↑<br>short tons<br>↓           |  |  |      |       |  |
| <b>7</b>  | Ferrovanadium . . . . .   | 331112 09 4          |                                |  |  |      |       |  |
| <b>8</b>  | Other ferroalloys (including silvery iron, ferrotungsten, ferromolybdenum, ferronickel, etc.) . . . . . | 331112 01 1          |                                |  |  |      |       |  |
| <b>9</b>  | All other ferrous shapes and forms . . . . .  | 331000 AE 8          |                                |  |  |      |       |  |
|           | Nonferrous  |                      |                                |  |  |      |       |  |
| <b>10</b> | Aluminum . . . . .  | 331000 39 8          |                                |  |  |      |       |  |
| <b>11</b> | Nickel (excluding ferronickel) . . . . .  | 331419 33 3          | ↑<br>short tons<br>↓           |  |  |      |       |  |
| <b>12</b> | Tin and tin-base alloy . . . . .  | 331419 39 0          |                                |  |  |      |       |  |
| <b>13</b> | Zinc and zinc-base alloy . . . . .  | 331491 05 0          |                                |  |  |      |       |  |
| <b>14</b> | All other nonferrous shapes and forms . . .   | 331419 13 5          |                                |  |  |      |       |  |
|           | Castings  |                      |                                |  |  |      |       |  |
| <b>15</b> | Gray iron ingot molds and stools . . . . .  | 331511 03 0          |                                |  |  |      |       |  |
| <b>16</b> | All other iron and steel castings . . . . .   | 331510 07 3          |                                |  |  |      |       |  |
|           | Stone, clay, glass, and concrete products   |                      |                                |  |  |      |       |  |
| <b>17</b> | Clay refractories . . . . .   | 327124 00 4          |                                |  |  |      |       |  |
| <b>18</b> | Nonclay refractories . . . . .  | 327125 00 1          |                                |  |  |      |       |  |
|           | Fluxes  |                      |                                |  |  |      |       |  |
| <b>19</b> | Limestone . . . . .   | 327992 07 9          |                                |  |  |      |       |  |
| <b>20</b> | Lime (including quicklime) . . . . .  | 327410 07 2          |                                |  |  |      |       |  |
| <b>21</b> | Dead-burned dolomite . . . . .  | 327410 09 8          |                                |  |  |      |       |  |
| <b>22</b> | Fluorspar . . . . .   | 327992 09 5          |                                |  |  |      |       |  |
| <b>23</b> | Other fluxes . . . . .  | 327992 11 1          |                                |  |  |      |       |  |
| <b>24</b> | All other stone, clay, glass, and concrete products . . . . .   | 327000 13 9          |                                |  |  |      |       |  |

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| 16 DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued |   |                      |                                |  |  |      |       |  |
|--|---|----------------------|--------------------------------|--|--|------|-------|--|
| Line No.   | Materials, parts, and supplies  | Census material code | Unit of measure for quantities | Consumption of purchased materials and of materials received from other establishments of your company |  |      |       |  |
|  |   |                      |                                | Quantity   | Cost, including delivery cost (freight-in) |      |       |  |
|  |   |                      |                                |  | \$ Bil.                                    | Mil. | Thou. |  |
| 0634   |   | 0630                 | 0636                           | 0632   | 0631                                       |      |       |  |
| 25   | Chemicals and allied products<br>Industrial chemicals (excluding sulfuric acid and oxygen) . . . . .  | 325000 11 5          |                                |  |  |      |       |  |
| 26   | Oxygen (including low and high purity) (liquid oxygen should be converted to its gaseous equivalent) . . . . .  | 325120 03 8          |                                |  |  |      |       |  |
| 27   | Sulfuric acid (100 percent H <sub>2</sub> SO <sub>4</sub> ) . . . . .   | 325188 03 5          |                                |  |  |      |       |  |
| 28   | All other chemicals and allied products . . . . .   | 325000 39 6          |                                |  |  |      |       |  |
| 29   | Metal mining<br>Iron ore (including pelletized and manganese) . . . . .   | 212210 11 6          | short tons                     |  |  |      |       |  |
| 30   | Crude and concentrates (Report quantity in gross weight.) . . . . .   | 212210 09 0          |                                |  |  |      |       |  |
| 31   | Agglomerates (Report quantity in gross weight.) . . . . .   | 212210 09 0          |                                |  |  |      |       |  |
| 32   | Manganese ore (including 10 percent manganese) and ferroalloy ore . . . . .   | 212299 01 0          |                                |  |  |      |       |  |
| 33   | All other metal mining . . . . .  | 212200 13 3          |                                |  |  |      |       |  |
| 34   | Coal used in the production of coke (Do not report coal used for heat and power.) . . . . .   | 212110 01 9          | short tons                     |  |  |      |       |  |
| 35   | Iron and steel purchased scrap (excluding rails for rerolling; including scrap generated in other establishments of your company and transferred to this establishment as well as scrap purchased from outside sources; excluding home scrap) . . . . . | 001900 23 2          |                                |  |  |      |       |  |
| 36   | Direct-reduced iron (DRI) . . . . .   | 001900 53 9          |                                |  |  |      |       |  |
| 37   | Pig iron (excluding silvery iron) . . . . .   | 331200 45 1          |                                |  |  |      |       |  |
| 38   | Lubricating oils and greases and other petroleum products . . . . .   | 324100 17 1          |                                |  |  |      |       |  |
| 39   | Industrial dies, molds, jigs, and fixtures . . . . .  | 333500 03 1          |                                |  |  |      |       |  |
| 40   | Carbon and graphite electrodes . . . . .  | 335991 03 0          |                                |  |  |      |       |  |
| 41   | Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.) ↴   | 009700 99 8          |                                |  |  |      |       |  |
| 41   | <b>TOTAL</b> (Should equal total reported in 16, line A1)   | 771000 00 7          |                                |  |  |      |       |  |

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17 Not Applicable.

18 TYPE OF OPERATION

(Mark "X" the statements below that best describe the manufacturing operation(s) at this establishment during 2002.)

**Drawn plain wire**

- 0620 368  Either all or partly produced from rods or bars produced in this establishment
- 372  All produced from rods, bars, or redrawn wire purchased from other companies or received from other plants of the same company

**Cold-rolled and cold-finished sheet, strip, or bars**

- 380  Either all or partly produced from hot-rolled shapes produced in this establishment
- 382  All produced from hot-rolled shapes purchased from other companies or received from other plants of the same company

**Pipe and tube**

- 384  Either all or partly produced from semifinished shapes or plate produced in this establishment
- 386  All produced from semifinished shapes or plate purchased from other companies or received from other plants of the same company

**Steel forgings**

- 388  Either all or partly produced from ingot, blooms, billets, slabs, or bars produced in this establishment
- 390  All produced from ingot, blooms, billets, slabs, or bars purchased from other companies or received from other plants of the same company

**Wire products**

- 364  Either all or partly produced from wire drawn in this establishment from steel rods or bars produced in this establishment
- 370  Either all or partly produced from wire drawn in this establishment from steel rods or bars purchased from other companies or received from other plants of the same company
- 366  Either all or partly produced from nonferrous wire drawn in this establishment
- 378  All produced from plain wire purchased from other companies or received from other plants of the same company

19-21 Not Applicable.

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE

**General** - The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of 22. PLEASE DO NOT COMBINE PRODUCT LINES.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

**Quantity Produced For All Purposes** - Report in this column the total quantity for each specified product made in this establishment during 2002. Do not report any data on the production of intermediate stages through which the metal may be processed in the production of other rolled, drawn, or extruded products. For example, if you purchase ingot or wire bars, roll them into rods and then draw wire from these rods, you should only report information on the wire in this section of the form; no information is necessary on the rods.

**Products Shipped and Other Receipts** - Report in these columns the quantity and value of all products made in this establishment which were physically shipped on consignment, whether or not sold at the end of the year. The value of the products shipped and services performed should be based on the net selling value, f.o.b. plant, after discounts and allowances, and exclusive of freight charges and excise taxes.

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**22** DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

**Contract Work** - Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census code 000930 0014 9.

**Toll Operations** - Tolling must be performed for customers outside your own company. If the work is done for other establishments within your company; the value of the materials consumed in the tolling operation should be reported in your cost of materials data and the processed value of the product should be reported as a product shipment and a corresponding interplant transfer.

**Resales** - Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census code 000999 8900 6, "Resales."

**Detailed Data Reported Elsewhere** - Items denoted by an asterisk (\*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR form, the sum of the detailed products should equal the total reported on this form.

**NOTE:** Only totals are requested; do not duplicate detail reported on the CIR.

| Line No. | Products and services<br>*Items correspond to products reported on Current Industrial Reports (CIR)                           | Census product code | Unit of measure for quantities | Quantity produced for all purposes | Products shipped and other receipts |                     |      |       |  |
|----------|---|---------------------|--------------------------------|------------------------------------|-------------------------------------|---------------------|------|-------|--|
|          |   |                     |                                |                                    | Quantity                            | Value, f.o.b. plant |      |       |  |
|          |   |                     |                                |                                    |                                     | \$ Bil.             | Mil. | Thou. |  |
| 0734     |   | 0730                | 0736                           | 0733                               | 0732                                | 0731                |      |       |  |
|          | Coke oven products, made in steel mills   |                     | ↑                              |                                    |                                     |                     |      |       |  |
| 1        | Coke, except screenings and breeze . . . . .  | 331111 1101 0       | short tons                     |                                    |                                     |                     |      |       |  |
| 2        | Screenings and breeze . . . . .   | 331111 1103 6       | ↓                              |                                    |                                     |                     |      |       |  |
| 3        | Crude tar . . . . .   | 331111 1105 1       | ↑                              |                                    |                                     |                     |      |       |  |
| 4        | Crude light oil . . . . .   | 331111 1107 7       | ↓                              |                                    |                                     |                     |      |       |  |
| 5        | Other coke oven products (including tar derivatives, ammonia, light oil derivations, and coke oven gas) . . . . .             | 331111 1109 3       |                                |                                    |                                     |                     |      |       |  |
|          | Blast furnace products (excluding ferroalloys)  |                     | ↑                              |                                    |                                     |                     |      |       |  |
| 6        | Pig iron (including pig iron with silicon content up to and including 6 percent silicon) . . . . .                            | 331111 1111 9       | short tons                     |                                    |                                     |                     |      |       |  |
| 7        | Slag . . . . .  | 331111 1113 5       | ↓                              |                                    |                                     |                     |      |       |  |
| 8        | Sinter from ore, flue dust, blast furnace gas, and other materials . . . . .  | 331111 1115 0       |                                |                                    |                                     |                     |      |       |  |
| 9        | Other blast furnace products (Specify kind.) ↴<br><br>  | 331111 1117 6       |                                |                                    |                                     |                     |      |       |  |
|          | Products made in electric and other furnaces  |                     | ↑                              |                                    |                                     |                     |      |       |  |
| 10       | Ferrochromium (including briquets), ferrochromium silicon, exothermic chromium additives, and other chromium alloys . . . . . | 331112 1100 0       | short tons                     |                                    |                                     |                     |      |       |  |
| 11       | Ferrosilicon (including briquets) and other silicon alloys . . . . .  | 331112 3100 8       | ↓                              |                                    |                                     |                     |      |       |  |
| 12       | Silicon, unalloyed . . . . .  | 331419 9121 7       |                                |                                    |                                     |                     |      |       |  |

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22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

| Line No. | Products and services<br>*Items correspond to products reported on Current Industrial Reports (CIR)   | Census product code | Unit of measure for quantities | Quantity produced for all purposes | Products shipped and other receipts |                     |      |       |
|----------|---|---------------------|--------------------------------|------------------------------------|-------------------------------------|---------------------|------|-------|
|          |   |                     |                                |                                    | Quantity                            | Value, f.o.b. plant |      |       |
|          |   |                     |                                |                                    |                                     | \$ Bil.             | Mil. | Thou. |
| 0734     |   | 0730                | 0736                           | 0733                               | 0732                                | 0731                |      |       |
| 13       | Products made in electric and other furnaces - Continued<br><br>Other ferroalloys<br>Superalloys (these superior heat and creep resistant alloys should be excluded from alloy categories listed elsewhere) . . .   | 331112 5101 4       | ↑<br>short tons<br>↓           |                                    |                                     |                     |      |       |
|          | Other ferroalloys (including silvery iron, ferromanganese, manganese metal, silicomanganese, and ferrospiegeleisen) . . . . .   |                     |                                |                                    |                                     |                     |      |       |
| 14       |   | 331112 5203 8       |                                |                                    |                                     |                     |      |       |
| 15       | Other ferrous products made in electric and other furnaces (Specify kind.) ↘<br><br>[Redacted]  | 331112 5305 1       |                                |                                    |                                     |                     |      |       |
| 16       | Steel mill products<br>Ingots and semifinished shapes and forms (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1110 - 1245, 2110 - 2241, and 3110 - 3225)* . . . . .   | 331111 3100 0       |                                |                                    |                                     |                     |      |       |
| 17       | Tinplate, blackplate, terneplate, tin free steel, and hot-rolled sheet and strip (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1323, 1355, 1360, 1370, 1385, 1390, 1420, 1430, 1445, 1450, 2321, 2333, 2375, 2391, and 3335)* . . . . .                     | 331111 5100 8       |                                |                                    |                                     |                     |      |       |
| 18       | Plates, structural shapes, piling, hot-rolled bars and bar shapes (including concrete reinforcing and tool steel bars) (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1313 - 1314, 1506-1546, 2314, 2316, 2318, 2520, 2530, 2535, 3320, and 3525)* . . . . . | 331111 7100 6       |                                |                                    |                                     |                     |      |       |

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| 22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued |   |                        |                                      |  |                                     |                     |      |  |       |
|---|---|------------------------|--------------------------------------|--|-------------------------------------|---------------------|------|--|-------|
| Line No.  | Products and services<br>*Items correspond to products reported on<br>Current Industrial Reports (CIR)  | Census product<br>code | Unit of<br>measure for<br>quantities | Quantity<br>produced for<br>all purposes | Products shipped and other receipts |                     |      |  |       |
|   |   |                        |                                      |  | Quantity                            | Value, f.o.b. plant |      |  | Thou. |
|   |   |                        |                                      |  |                                     | \$ Bil.             | Mil. |  |       |
| 0734  |   | 0730                   | 0736                                 | 0733                                     | 0732                                | 0731                |      |  |       |
| 19  | Steel mill products - Continued<br><br>Wire (including galvanized and other coated wire)<br><br>Made in plants producing wire rods or hot-rolled bars (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1741 - 1771, and 2707)* . . . . . | 331111 9100 4          |                                      |  |                                     |                     |      |  |       |
| 20  | Made in plants not producing wire rods or hot-rolled bars, made in plants that draw wire (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 3710 - 3740)* . . . . .  | 331222 5100 3          |                                      |  |                                     |                     |      |  |       |
| 21  | Wire rope and cable, made in plants that draw wire (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1783 and 1787)*  | 331222 1101 5          |                                      |  |                                     |                     |      |  |       |
| 22  | Wire forms and strand, made in plants that draw wire (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1889 - 1890)* . . .  | 331222 1201 3          |                                      |  |                                     |                     |      |  |       |
| 23  | Wire cloth and other woven wire products, made in plants that draw wire (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1889 - 1890)* . . . . .   | 331222 9100 9          |                                      |  |                                     |                     |      |  |       |
| 24  | Other wire products, made in plants that draw wire (excluding springs) (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1777, 1781 - 1782, and 1789 - 1790)* . . . . .   | 331222 B100 6          |                                      |  |                                     |                     |      |  |       |
| 25  | Nails, staples, tacks, spikes, and brads, made in plants that draw wire (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1791 - 1801)* . . .   | 331222 3100 5          |                                      |  |                                     |                     |      |  |       |
| 26  | Fencing and fence gates, made in plants that draw wire (excluding posts, gates, and fittings, including galvanized and plastics coated) (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1778 - 1780)* . . .                             | 331222 7100 1          |                                      |  |                                     |                     |      |  |       |

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22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

| Line No. | Products and services<br>*Items correspond to products reported on Current Industrial Reports (CIR)   | Census product code | Unit of measure for quantities | Quantity produced for all purposes | Products shipped and other receipts |                     |      |       |
|----------|---|---------------------|--------------------------------|------------------------------------|-------------------------------------|---------------------|------|-------|
|          |   |                     |                                |                                    | Quantity                            | Value, f.o.b. plant |      |       |
|          |   |                     |                                |                                    |                                     | \$ Bil.             | Mil. | Thou. |
| 0734     |   | 0730                | 0736                           | 0733                               | 0732                                | 0731                |      |       |
| 27       | Steel mill products - Continued<br><br>Pipes and tubes<br>Made in plants producing semifinished shapes or plate (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1636 - 1696)* . . . . . | 331111 B100 1       |                                |                                    |                                     |                     |      |       |
| 28       | Made in plants not producing semifinished shapes or plate (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 2641 - 2649, and 3610 - 3660)*  | 331210 0100 3       |                                |                                    |                                     |                     |      |       |
| 29       | Cold rolled sheet and strip<br>Made in plants producing hot-rolled sheet or strip (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1324, 1397, 2327, 2393, and 3339)* . . . . .          | 331111 D100 9       |                                |                                    |                                     |                     |      |       |
| 30       | Made in plants not producing hot-rolled sheet or strip (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1324, 1397, 2327, 2393, and 3339)* . . . . .                                     | 331221 1100 9       |                                |                                    |                                     |                     |      |       |
| 31       | Cold finished bars and shapes<br>Made in plants producing hot rolled bars and bar shapes (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1551, 2525, and 3550)* . . . . .               | 331111 F100 7       |                                |                                    |                                     |                     |      |       |
| 32       | Made in plants not producing hot-rolled bars and bar shapes (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1551, 2525, and 3550)* . . . . .  | 331221 3100 7       |                                |                                    |                                     |                     |      |       |
| 33       | Other steel mill products (including steel rails, excluding wire products) (Corresponds to value of shipments reported on CIR Form MA331B, Steel Mill Products, for 2002, item codes 1571 - 1616)* . . . . .                                      | 331111 L100 1       |                                |                                    |                                     |                     |      |       |

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**22** DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

| Line No.  | Products and services<br>*Items correspond to products reported on<br>Current Industrial Reports (CIR)  | Census product<br>code | Unit of<br>measure for<br>quantities | Quantity<br>produced for<br>all purposes | Products shipped and other receipts |                     |      |       |  |
|-----------|---|------------------------|--------------------------------------|--|-------------------------------------|---------------------|------|-------|--|
|           |   |                        |                                      |  | Quantity                            | Value, f.o.b. plant |      |       |  |
|           |   |                        |                                      |  |                                     | \$ Bil.             | Mil. | Thou. |  |
| 0734      |   | 0730                   | 0736                                 | 0733                                     | 0732                                | 0731                |      |       |  |
| <b>34</b> | Iron and steel forgings<br>Seamless rolled ring forgings,<br>ferrous<br>Carbon steel and alloy steel,<br>excluding stainless and hi-<br>temp . . . . .  | 331111 H101 3          |                                      |  |                                     |                     |      |       |  |
| <b>35</b> | Stainless and hi-temp (iron,<br>nickel, or cobalt-base alloy) . .   | 331111 H203 7          |                                      |  |                                     |                     |      |       |  |
| <b>36</b> | Open-die or smith forgings,<br>ferrous (hammer or press)<br>Carbon steel and alloy steel<br>(excluding stainless and hi-<br>temp) . . . . .   | 331111 J101 1          |                                      |  |                                     |                     |      |       |  |
| <b>37</b> | Stainless and hi-temp (iron,<br>nickel, or cobalt-base alloy) . .   | 331111 J203 5          |                                      |  |                                     |                     |      |       |  |
| <b>38</b> | Hot impression die impact, press,<br>and upset steel forgings<br>Carbon steel . . . . .   | 332111 1101 9          | ↑<br>short tons<br>↓                 |  |                                     |                     |      |       |  |
| <b>39</b> | Alloy steel (excluding stainless<br>and hi-temp) . . . . .  | 332111 1206 6          |                                      |  |                                     |                     |      |       |  |
| <b>40</b> | Stainless . . . . .   | 332111 1311 4          |                                      |  |                                     |                     |      |       |  |
| <b>41</b> | Metal powders, paste, and flakes<br>Iron and steel (Report iron content<br>only.) . . . . .   | 331111 2100 1          | ↑<br>1000 lb<br>↓                    |  |                                     |                     |      |       |  |
| <b>42</b> | Secondary copper and copper-<br>base alloy powders, paste, and<br>flakes (Report copper content<br>only.) . . . . .   | 331423 0106 9          |                                      |  |                                     |                     |      |       |  |
| <b>43</b> | Fabricated structural steel for<br>buildings, bridges, ships, offshore<br>oil or gas platforms, transmission<br>towers, tunneling, and subway work<br>(Specify for what use.) ↴   | 332312 WYWW 5          |                                      |  |                                     |                     |      |       |  |
| <b>44</b> | Electrical conduit and conduit fittings<br>(including plastics conduit and<br>conduit fittings) (Corresponds to<br>value of shipments reported on CIR<br>Form MA335K, Wiring Devices and<br>Supplies (Shipments), for 2002, item<br>codes 4202 - 4240)* . . . . . | 335932 3100 5          |                                      |  |                                     |                     |      |       |  |

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If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

**22** DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

| Line No.  | Products and services<br>*Items correspond to products reported on Current Industrial Reports (CIR)  | Census product code | Unit of measure for quantities | Quantity produced for all purposes | Products shipped and other receipts |                     |      |       |
|-----------|--|---------------------|--------------------------------|------------------------------------|-------------------------------------|---------------------|------|-------|
|           |  |                     |                                |                                    | Quantity                            | Value, f.o.b. plant |      |       |
|           |  |                     |                                |                                    |                                     | \$ Bil.             | Mil. | Thou. |
| 0734      |  | 0730                | 0736                           | 0733                               | 0732                                | 0731                |      |       |
|           | All other products made in this establishment - <i>Specify and report each product with sales value of \$50,000 or more that cannot be assigned to one of the "listed products and services". For all remaining products, write "Other" and report a single total value.</i> |                     |                                |                                    |                                     |                     |      |       |
| <b>45</b> |  | 18                  |                                |                                    |                                     |                     |      |       |
| <b>46</b> |  | 26                  |                                |                                    |                                     |                     |      |       |
| <b>47</b> |  | 34                  |                                |                                    |                                     |                     |      |       |
| <b>48</b> |  | 42                  |                                |                                    |                                     |                     |      |       |
| <b>49</b> |  | 59                  |                                |                                    |                                     |                     |      |       |
| <b>50</b> |  | 67                  |                                |                                    |                                     |                     |      |       |
|           | Contract work<br>Receipts for conversion of steel for other companies (including fees received from both steel-producing and nonsteel companies) . . . . .   |                     |                                |                                    |                                     |                     |      |       |
| <b>51</b> |  | 000930 0086 7       |                                |                                    |                                     |                     |      |       |
|           | Receipts for processing (rolling, drawing, extruding, etc.) of materials owned by others on a toll basis. (Report the quantity of production of these products in the "Quantity produced for all purposes" column, where appropriate, on lines 1-50 above.)                  |                     |                                |                                    |                                     |                     |      |       |
| <b>52</b> |  | 000930 0087 5       |                                |                                    |                                     |                     |      |       |
|           | All other receipts for work done for others on their own materials. ( <i>Specify products worked on and kind of work.</i> ) ↴  |                     |                                |                                    |                                     |                     |      |       |
| <b>53</b> |  | 000930 0014 9       |                                |                                    |                                     |                     |      |       |

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| 22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued |  |                        |                                      |  |                                     |                     |      |       |
|---|--|------------------------|--------------------------------------|--|-------------------------------------|---------------------|------|-------|
| Line No.  | Products and services<br>*Items correspond to products reported on<br>Current Industrial Reports (CIR)   | Census product<br>code | Unit of<br>measure for<br>quantities | Quantity<br>produced for<br>all purposes | Products shipped and other receipts |                     |      |       |
|   |  |                        |                                      |  | Quantity                            | Value, f.o.b. plant |      |       |
|   |  |                        |                                      |  |                                     | \$ Bil.             | Mil. | Thou. |
| 0734  |  | 0730                   | 0736                                 | 0733                                     | 0732                                | 0731                |      |       |
| 54  | Miscellaneous receipts   |                        |                                      |  |                                     |                     |      |       |
|   | Sales of scrap and refuse . . . . .  | 000999 8013 8          |                                      |  |                                     |                     |      |       |
| 55  | Receipts for research and<br>developmental work . . . . .  | 000999 8041 9          |                                      |  |                                     |                     |      |       |
| 56  | Other miscellaneous receipts<br>(including receipts for repair work,<br>etc.) . . . . .  | 000999 8098 9          |                                      |  |                                     |                     |      |       |
| 57  | Resales - Sales of products bought<br>and sold without further manufacture,<br>processing, or assembly (The cost of<br>such items should be reported in 15,<br>line A2.) . . . . . | 000999 8900 6          |                                      |  |                                     |                     |      |       |
| 58  | <b>TOTAL</b> (Should equal 4, line A) . . .  | 770000 0000 8          |                                      |  |                                     |                     |      |       |

23-25 Not Applicable.

26 SPECIAL INQUIRIES

**A. STEEL MILL OPERATIONS**

1. Was this establishment considered a mini-mill?  
 8051  Yes - Go to line 2      8052  No - Go to 26 B

2. Date this establishment was built . . . . . 8055

| Month | Year |
|-------|------|
|       |      |

3. Greatest distance that you shipped your products . . . . . 8056

4. Shortest distance that you shipped your products . . . . . 8057

| Miles |  |
|-------|--|
|       |  |

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33101189

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

**26** SPECIAL INQUIRIES - Continued

**B. DEPARTMENTAL OPERATIONS**

*(All establishments should complete this item except electrometallurgical plants. If you do not maintain actual departmental records on hours worked and wages of production workers, please enter estimates.)*

- 1. Coke ovens . . . . .
- 2. Blast furnaces. . . . .
- 3. Basic oxygen furnaces. . . . .
- 4. Electric arc furnaces. . . . .
- 5. Steel department (furnaces) (through pouring stage) . . . . .
- 6. Rolling and finishing mills
  - a. Sheet and strip mills . . . . .
  - b. Tin mills. . . . .
  - c. Bar mills, including rebars . . . . .
  - d. Wiredrawing mills . . . . .
  - e. Pipe mills . . . . .
  - f. Other mills, including semifinishing, plate, and structural. . . . .
- 7. Foundry (iron or steel). . . . .
- 8. Forging (presses, hammers, or upsetter), excluding manufacture of nuts, bolts, etc. . . . .
- 9. Other manufacturing or fabricating departments (nuts, bolts, steel containers, etc.) . . . . .
- 10. Service or auxiliary operations (all other activities not directly assignable above). . . . .
- 11. **TOTAL** (Sum lines 1 through 10) . . . . .

| Cen-<br>sus<br>use | Total for 2002                        |  |                                     |       |
|--------------------|---------------------------------------|--|-------------------------------------|-------|
|                    | Hours worked by<br>production workers |  | Wages paid to<br>production workers |       |
|                    | Thou.                                 |  | \$ Mil.                             | Thou. |
|                    | 81                                    |  | 82                                  |       |
| 01                 |                                       |  |                                     |       |
| 02                 |                                       |  |                                     |       |
| 03                 |                                       |  |                                     |       |
| 04                 |                                       |  |                                     |       |
| 05                 |                                       |  |                                     |       |
| 06                 |                                       |  |                                     |       |
| 07                 |                                       |  |                                     |       |
| 08                 |                                       |  |                                     |       |
| 09                 |                                       |  |                                     |       |
| 10                 |                                       |  |                                     |       |
| 11                 |                                       |  |                                     |       |
| 12                 |                                       |  |                                     |       |
| 13                 |                                       |  |                                     |       |
| 14                 |                                       |  |                                     |       |
| 15                 |                                       |  |                                     |       |
| 00                 |                                       |  |                                     |       |

**27** Not Applicable.



33101197

**28** ESTABLISHMENT ACTIVITIES

**A.** Indicate activities that were performed by this establishment or were performed for this establishment by another company during 2002.  
(Mark "X" ALL that apply.)

| This activity was performed -   |  |                               |                               |
|---|--|-------------------------------|-------------------------------|
| By this establishment   | By another establishment of this company | By another company            | Not at all                    |
| 0921 <input type="checkbox"/>   | 8071 <input type="checkbox"/>            | 0941 <input type="checkbox"/> | 0961 <input type="checkbox"/> |
| <b>1.</b> Product design/engineering . . . . .  |  |                               |                               |
| <b>2.</b> Order fulfillment   |  |                               |                               |
| 0923 <input type="checkbox"/>   | 8072 <input type="checkbox"/>            | 0943 <input type="checkbox"/> | 0963 <input type="checkbox"/> |
| <b>a.</b> Bundling or kitting (combining multiple items into a prepackaged product) . . . . .                               |  |                               |                               |
| 0924 <input type="checkbox"/>   | 8073 <input type="checkbox"/>            | 0944 <input type="checkbox"/> | 0964 <input type="checkbox"/> |
| <b>b.</b> Pick and pack (taking goods from inventory and packaging them to fill orders). . . . .                            |  |                               |                               |
| 0925 <input type="checkbox"/>   | 8074 <input type="checkbox"/>            | 0945 <input type="checkbox"/> | 0965 <input type="checkbox"/> |
| <b>c.</b> Warehousing of finished products . . . . .  |  |                               |                               |
| 0926 <input type="checkbox"/>   | 8075 <input type="checkbox"/>            | 0946 <input type="checkbox"/> | 0966 <input type="checkbox"/> |
| <b>d.</b> Breaking bulk (reducing large shipments into smaller portions for customers) . . . . .                            |  |                               |                               |
| 0927 <input type="checkbox"/>   | 8076 <input type="checkbox"/>            | 0947 <input type="checkbox"/> | 0967 <input type="checkbox"/> |
| <b>e.</b> Local delivery (within a city, town, or other local area, including adjoining towns and suburban areas) . . . . . |  |                               |                               |
| 0928 <input type="checkbox"/>   | 8077 <input type="checkbox"/>            | 0948 <input type="checkbox"/> | 0968 <input type="checkbox"/> |
| <b>f.</b> Long distance delivery (beyond local areas and commercial zones) . . . . .  |  |                               |                               |
| 0932 <input type="checkbox"/>   | 8078 <input type="checkbox"/>            | 0952 <input type="checkbox"/> | 0972 <input type="checkbox"/> |
| <b>g.</b> Processing of returned merchandise . . . . .  |  |                               |                               |

**B.** During 2002 did this establishment:

- |  |                                   |                                  |
|--|-----------------------------------|----------------------------------|
| <b>1.</b> Manage inventory owned by this establishment AND held at this location? . . . . .  | 0936 <input type="checkbox"/> Yes | 0937 <input type="checkbox"/> No |
| <b>2.</b> Manage inventory owned by this establishment BUT held at a customer's location? . . . . .  | 0956 <input type="checkbox"/> Yes | 0957 <input type="checkbox"/> No |
| <b>3.</b> Manage inventory owned by another company BUT held at this location? . . . . .   | 0976 <input type="checkbox"/> Yes | 0977 <input type="checkbox"/> No |
| <b>4.</b> Manage inventory owned by another company AND held somewhere other than at this location? . . . . .  | 0994 <input type="checkbox"/> Yes | 0995 <input type="checkbox"/> No |
| <b>5.</b> Contract with another firm for any of your production using materials owned by this location? . . . . .  | 8041 <input type="checkbox"/> Yes | 8042 <input type="checkbox"/> No |
| <b>6.</b> Send any partially completed products to a foreign facility for processing that were then returned to this establishment for completion? . . . . . | 8044 <input type="checkbox"/> Yes | 8045 <input type="checkbox"/> No |
| <b>7.</b> Manufacture products for a government to their specifications? . . . . .   | 8047 <input type="checkbox"/> Yes | 8048 <input type="checkbox"/> No |
| <b>8.</b> Manufacture products for another business to their specifications? . . . . .   | 8016 <input type="checkbox"/> Yes | 8017 <input type="checkbox"/> No |
| <b>9.</b> Manufacture products for a final retail customer to their specifications? . . . . .  | 8060 <input type="checkbox"/> Yes | 8062 <input type="checkbox"/> No |



33101205

**If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.**

**29 OPERATIONAL STATUS**

Activity that best describes this establishment's status at the end of 2002  
(Mark "X" only ONE box.)

- 0011  In operation
- 0012  Under construction, development, or exploration
- 0013  Temporarily or seasonally inactive
- 0014  Ceased operation - Give date at right →
- 0015  Sold or leased to another operator - Give date at right AND enter new name and mailing address below ↴

|      |       |     |      |
|------|-------|-----|------|
| 0018 | Month | Day | Year |
|      |       |     |      |

|  |  |                                     |               |  |
|--|--|-------------------------------------|---------------|--|
| 0060 Name of new owner or operator                       |  | 0061 Employer Identification Number |               |  |
|  |  | Enter EIN of new owner (9 digits) → |               |  |
| 0062 Mailing address (number and street, P.O. Box, etc.) |  |                                     |               |  |
|  |  |                                     |               |  |
| 0063 City, town, village, etc.                           |  | 0064 State                          | 0065 ZIP Code |  |
|  |  |                                     |               |  |

Remarks (Please use this space for any explanations that may be essential in understanding your reported data.)

**30 CERTIFICATION - This report is substantially accurate and was prepared in accordance with the instructions.**

Is the time period covered by this report a calendar year?

- 0078  Yes
- 0079  No - Enter time period covered →

|      |       |      |      |       |      |
|------|-------|------|------|-------|------|
| FROM | Month | Year | TO   | Month | Year |
| 0070 |       |      | 0071 |       |      |

|  |  |            |  |  |  |
|--|--|------------|--|--|--|
| 0072 Name of person to contact regarding this report |  | 0073 Title |  |  |  |
|  |  |            |  |  |  |

|           |           |        |  |           |      |           |        |  |
|-----------|-----------|--------|--|-----------|------|-----------|--------|--|
| Telephone | Area code | Number |  | Extension | Fax  | Area code | Number |  |
| 0074      |           | -      |  |           | 0075 |           | -      |  |

|                              |  |  |                |       |     |      |
|------------------------------|--|--|----------------|-------|-----|------|
| 0076 Internet e-mail address |  |  | Date completed | Month | Day | Year |
|                              |  |  | 0069           |       |     |      |

**Thank you for completing your 2002 Economic Census form.**  
**PLEASE PHOTOCOPY THIS FORM FOR YOUR RECORDS AND RETURN THE ORIGINAL.**

33101213