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Census File Number

**Item 16. CONSUMPTION OF SELECTED MATERIALS DURING 2002**

**INSTRUCTIONS**

**1. General** – The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 22. 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 which are not listed, describe and report them in the "Cost of all other materials . . ." line at the end of this section. If you consumed less than \$30,000 of a listed material, include the value with "Cost of all other materials . . . ."

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

**2. 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 amounts 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.

**3. Contract Work** – Include as 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 item 15, line 5, 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.

**4. 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 item 15, line 2, not in item 16 below. The value of these products shipped by this establishment should be reported in item under "Resales."

Line No.	Materials, parts, and supplies  <b>(A)</b>		Census material code  571 <b>(B)</b>	Unit of measure for quantities  <b>(C)</b>	Consumption of purchased materials and of materials received from other establishments of your company				
					Quantity  573 <b>(D)</b>	Cost, including delivery cost (freight-in) <b>(E)</b>			
						574 Millions	Thou- sands	Dollars	
1	FABRICATED METAL PRODUCTS (Except castings and forgings)	Bolts, nuts, screws, rivets, washers, and screw machine products							
2		Other fabricated metal products							
3	CASTINGS (Rough and semifinished)	Iron and steel							
4		Other nonferrous castings							
5	Forgings								
6	<b>Shapes and Forms (Except castings, forgings, and fabricated metal products)</b>	STEEL	Bars, bar shapes						
7			Sheet and strip		Short tons				
8			Plate						
9			Wire and wire products						
10			Tinplate, tin free steel, tarneplate, and blackplate		Short tons				
11			All other steel shapes and forms						
12	Copper and copper-base alloy								
13	ALUMINUM AND ALUMINUM-BASE ALLOY	Sheet, plate, foil, and welded tubing							
14		Extruded shapes (including extruded rod, bar, pipe, etc.)							
15		All other aluminum and aluminum-base alloy shapes and forms							
16	All other nonferrous shapes and forms								

**FOR COMMENT**

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Item 16. CONSUMPTION OF SELECTED MATERIALS DURING 2002- Continued								
Line No.	Materials, parts, and supplies  <b>(A)</b>		Census material code  <b>(B)</b>	Unit of measure for quantities  <b>(C)</b>	Consumption of purchased materials and of materials received from other establishments of your company			
					Quantity  <b>(D)</b>	Cost, including delivery cost (freight-in) <b>(E)</b>		
						574 Millions	Thou- sands	Dollars
17	CHEMICALS AND ALLIED PRODUCTS Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shape							
18	Paints, varnishes, lacquers, shellacs, japans, enamels, and allied products							
19	Other chemicals and allied products							
20	Plastics products consumed in the form of sheets, rods, tubes, and other shapes							
21	PAPER AND PAPERBOARD PRODUCTS Paperboard boxes, containers, and corrugated paperboard							
22	Other paper and paperboard products							
23	Special dies, tools, die sets, jigs, and fixtures (except cutting tools for machine tools)							
24	Cost of all other materials and components, parts, containers, and supplies consumed <i>Describe the three principal materials, etc., included in this value.</i>							
25	<b>TOTAL</b> Sum of lines 1-24 should equal item 15, line 1							

FOR COMMENT

Item 22. SELECTED METALWORKING AND RELATED OPERATIONS PERFORMED IN THIS ESTABLISHMENT DURING 2002				Census code	Mark (X) appropriate box	
				591	Yes	No
<b>Were any of the operations listed below performed in this establishment in 2002?</b> ..... <i>If "Yes," indicate in column (C) by marking appropriately, which of the specified operations were performed in this establishment during 2002. Where "Yes" is marked, show in column (D) the appropriate number of production workers on all shifts usually engaged in the specified operation.</i>				208	1 <input type="checkbox"/>	2 <input type="checkbox"/>

Line No.	Operation  <b>(A)</b>	Census code  <b>(B)</b>	Was this operation performed in this establishment during 2002?		Number of production workers (on all shifts) usually employed when operated (estimate if necessary)  <b>(D)</b>
			<b>(C)</b>		
			592 Yes	No	
1	Electroplating and other plating	018	1 <input type="checkbox"/>	<input type="checkbox"/>	
2	Galvanizing and other hot dip coating	026	1 <input type="checkbox"/>	<input type="checkbox"/>	
3	Heat treating of metals for production purposes	034	1 <input type="checkbox"/>	<input type="checkbox"/>	
4	Precision turned products (on screw machines, turning centers, and CNC equipment)	042	1 <input type="checkbox"/>	<input type="checkbox"/>	
5	Machine shop	059	1 <input type="checkbox"/>	<input type="checkbox"/>	
6	Tool and die shop (if separate from machine shop) for jigs, fixtures, dies, and other special tooling	067	1 <input type="checkbox"/>	<input type="checkbox"/>	
7	Pattern shop (foundry patterns only - metal, wood, etc.)	075	1 <input type="checkbox"/>	<input type="checkbox"/>	
8	Sheet metal work, aluminum or steel	083	1 <input type="checkbox"/>	<input type="checkbox"/>	
9	Stamping and blanking of metals	091	1 <input type="checkbox"/>	<input type="checkbox"/>	
10	Painting, lacquering, and enameling on metals	109	1 <input type="checkbox"/>	<input type="checkbox"/>	
11	Welding of steel plate for manufacturing production	117	1 <input type="checkbox"/>	<input type="checkbox"/>	
12	Welding repair shop	125	1 <input type="checkbox"/>	<input type="checkbox"/>	

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**Item 22. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 2002**

**INSTRUCTIONS**

**1. 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 item 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.

**2. Valuation of Products** – Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

**3. 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

**4. 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 "Resales."

**5. 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 forms, the sum of the detailed CIR products should equal the total reported on this census form.

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

Line No.	Products and services  *Item corresponds to products reported on Current Industrial Reports		Census product code  581	Products shipped and other receipts		
				Value, f.o.b. plant (E)		
	(A)	(B)	584	Millions	Thousands	Dollars
1	Automotive job stampings (truck, bus, and passenger car)			\$		
2	METAL COMMERCIAL CLOSURES AND METAL HOME-CANNING CLOSURES, (Except crowns)	Metal and metal-composite closures, including home-canning closures				
3	All other closures (including roll-ons, soft drinks, beer, and all other)					
4	Metal crowns (including soft drinks, beer, and all other)					
5	JOB STAMPINGS (Except automotive)	Recreational vehicle stampings (motor homes, travel trailers, etc.)				
6		Motor and generator stampings				
7		Aviation stampings				
8		Agricultural equipment stampings (including tractor)				
9		Computer stampings				
10		Electrical appliance stampings (except refrigeration and laundry equipment)				
11		Furniture stampings				
12		Office machine stampings (excluding computer)				
13		Radio and phonograph stampings				
14		Television stampings				
15		Refrigeration stampings (residential, commercial, and industrial)				
16		Stove, heater, and air-conditioner stampings (residential, commercial, and industrial)				
17		Laundry equipment stampings (residential, commercial, and industrial)				
18		Other industrial equipment stampings				
19	Other job stampings – Specify end use					

**FOR COMMENT**

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Item 22. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 2002- Continued							
Line No.	Products and services  *Item corresponds to products reported on Current Industrial Reports		Census product code  581	Products shipped and other receipts			
				Value, f.o.b. plant (E)			
				584	Millions	Thou- sands	Dollars
(A)		(B)					
20	STAMPED AND SPUN UTENSILS, COOKING AND KITCHEN, ALUMINUM	Top of range household utensils (those items generally used directly on top of source of heat) (including pressure cookers)		\$			
21		Bakeware, pantryware, and miscellaneous household utensils					
22		Camping and outdoor cooking equipment					
23		Other (including commercial and hospital)					
24	Stamped and Spun Utensils, Cooking and Kitchen (Except aluminum)	STAINLESS STEEL	Top of range household utensils (those items generally used directly on top of source of heat)				
25			Bakeware, pantryware, and miscellaneous household utensils				
26		Other (including commercial, hospital, and outdoor cooking equipment)					
27		Tinware (including household, commercial, hospital, and outdoor cooking equipment)					
28		Other stamped and spun cooking and kitchen utensils (including copper and vitreous enamel)					
29	Metal spinning products (excluding cooking and kitchen utensils) - <i>Specify kind</i>						
30	Other Stamped and Pressed Metal End Products (Including vitreous enameled products)	VITREOUS (PORCELAIN) ENAMELED PRODUCTS (Excluding cooking and kitchen utensils)	Architectural parts (exterior and interior) (including store front and curtain wall components)				
31			Other products (including refrigerator parts, commercial and hospital utensils, and laundry equipment parts sold separately) - <i>Specify kind</i>				
32		Chemical milling products; milled contoured metal; and clad and bonded metal products (excluding precious metals when used in jewelers' findings and materials)					
33		Perforated metal end products					
34		PAILS, ASHCANS, GARBAGE CANS, TUBS, ETC. (Excluding shipping containers)	Galvanized steel				
35			Other metal (including other grades of steel)				
36		Electronic enclosures (stamped and/or pressed) (excluding computer stampings)					
37		Mailboxes (commercial and multiple unit residential)					
38		Toolboxes					
39		Other stamped and pressed metal end products (excluding spinning products) - <i>Specify kind</i>					
40	Enameled iron and metal plumbing fixtures (corresponds to the annual sum of the value of shipments figures for item codes 1110, 1171, 1172, 1173, 1351, 1411, 1412, 1422, 1431, 1437, 1471, 1651, 1652, 1703, 1745, 1776, and 1778 on CIR Form MQ34E, Plumbing Fixtures, for 2002) *						
41	Fabricated structural iron and steel (other than for buildings, bridges, ships, boats, barges, transmission towers, substations, radio antenna towers, supporting structures, offshore oil and gas platforms, tunneling and subway work, and aerospace and defense; and including dam locks and dam gates; excluding pressure vessels and storage tanks, fabricated reinforcing bars, bar joists, fabricated metal buildings, steel flooring, and roof decks)						
42	PRECISION TURNED PRODUCTS (Made on CNC turning centers or screw machines)	For automotive use					
43		For other use - <i>Specify end use if known</i>					
44	Electroplating, plating, polishing, and anodizing						
45	Noninsulated ferrous wire rope, cable, etc., not produced by wire drawers (including wire forms)						



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**Item 22 PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 2002- Continued**

Line No.	Products and services  *Item corresponds to products reported on Current Industrial Reports		Census product code  581  <b>(B)</b>	Products shipped and other receipts		
				Value, f.o.b. plant <b>(E)</b>		
				584 Millions	Thousands	Dollars
<b>(A)</b>		<b>(B)</b>				
46	<b>Dies (For metal cutting only)</b>	Press brake dies		\$		
47		FORMING AND DRAWING DIES	500 pounds weight or less			
48			501 to 3,000 pounds weight			
49			More than 3,000 pounds weight			
50		STAMPING DIES (Including lamination and blanking dies)	Progressive-Type Dies	High-speed steel		
51	Carbide					
52	Other					
53	All other stamping-type dies (punch, trim, notch, pierce, perforate, etc.)					
54	Industrial models and prototypes					
55	Other specially designed tooling					
56	Small household electric appliances (except fans) (corresponds to the annual sum of the value of shipments figures for item codes 4312 to 4598 on CIR Form MA335E, Electric Housewares and Fans, for 2002) *					
57	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT	<i>Describe and report separately each product with a sales value of \$50,000 or more which cannot be assigned to one of the lines above. For all remaining products, write "Other" and report a single total value.</i>				
			18			
58			26			
59			34			
60			42			
61			5			
62	67					
63	<b>CONTRACT WORK</b>	Receipts for work done for others on their own materials . . . . . <i>Describe below products worked on and kind of work.</i>				
64	<b>MISCELLANEOUS RECEIPTS</b>	Sales of scrap and refuse				
65		Other miscellaneous receipts (including receipts for repair work, receipts for research and development work, etc.)				
66	<b>RESALES</b>	Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such items should be reported in item 15, line 2.				
67	<b>TOTAL value of shipments and other receipts</b> Sum of lines 1-66, column (E)			\$		



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**Item 26. SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT**

**INSTRUCTIONS**

- 1. Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment.
- 2. Purchases or receipts of the items specified below should be reported only in item 16.
- 3. Materials used to produce the items specified below should be reported in item 16.
- 4. Quantities produced for sale as such and not for incorporation in other products should be reported in item 22.
- 5. Report quantities in the unit of measure specified in column (D).

Line No.	Item  (A)	Census code  591 (B)	Was this operation performed at this establishment during 2002?  592 (C)		Unit of measure for quantities  (D)	Quantities produced in this establishment and used in manufacturing other products made in this establishment  593 (E)	
			Yes	No			
1	Ferrous foundries		1 <input type="checkbox"/>	2 <input type="checkbox"/>	Short tons		
2	NONFERROUS FOUNDRIES (Except die-casting)		1 <input type="checkbox"/>	2 <input type="checkbox"/>	↑ Thousand pounds ↓		
3			Copper	<input type="checkbox"/>		2 <input type="checkbox"/>	
4			Zinc	<input type="checkbox"/>		2 <input type="checkbox"/>	
5			Other	1 <input type="checkbox"/>		2 <input type="checkbox"/>	
6	Nonferrous die-casting foundries		1 <input type="checkbox"/>	2 <input type="checkbox"/>			
7	Precision turned products (on screw machines, turning centers, and CNC equipment)		1 <input type="checkbox"/>	2 <input type="checkbox"/>			

FOR COMMENT

**Items 26 and 26** – Not applicable to this report

**REMARKS** – Please use this space for any explanations that may be essential in understanding your reported data.
