

If not shown, please enter your 11-digit Census File Number from the address label on page 1

Census File Number

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

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 18B. 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 \$25,000 of a listed material, include the value with "Cost of all other materials . . .," Census material code 970099 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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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.

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 10, line e, 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 10, line b, not in item 17 below. The value of these products shipped by this establishment should be reported in item 18B under Census product code 99989 00 6, "Resales."

Line No.	Materials, parts, and supplies (A)		Census material code (B)	Unit of measure for quantities (C)	Consumption of purchased materials and of materials received from other establishments of your company			
					Quantity (D)	Cost, including delivery cost (freight-in) (E)		
						Millions	Thousands	Dollars
			571	573	574			
1	FABRICATED METAL PRODUCTS (Except castings and forgings)	Bolts, nuts, screws, rivets, washers, and screw machine products	345001 2			\$		
2		Other fabricated metal products	340098 3					
3	CASTINGS (Rough and semifinished)	Iron and steel	332001 7					
4		Other nonferrous castings	336010 4					
5	Forgings		346000 3					
6	Shapes and Forms (Except castings, forgings, and fabricated metal products)	STEEL	Bars, bar shapes	331072 9				
7			Sheet and strip	331022 4	Short tons			
8			Plate	331082 8				
9			Wire and wire products	331027 3				
10			Tinplate, tin free steel, tarneplate, and blackplate	331018 2	Short tons			
11			All other steel shapes and forms	331028 1				
12	Copper and copper-base alloy		335105 3					
13	ALUMINUM AND ALUMINUM-BASE ALLOY	Sheet, plate, foil, and welded tubing	335301 8					
14		Extruded shapes (including extruded rod, bar, pipe, etc.)	335405 7					
15		All other aluminum and aluminum-base alloy shapes and forms	335008 9					
16	All other nonferrous shapes and forms		335099 8					

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Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued								
Line No.	Materials, parts, and supplies (A)		Census material code (B)	Unit of measure for quantities (C)	Consumption of purchased materials and of materials received from other establishments of your company			
					Quantity (D)	Cost, including delivery cost (freight-in) (E)		
						Millions	Thousands	Dollars
17	CHEMICALS AND ALLIED PRODUCTS Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes		282104 9			\$		
18	Paints, varnishes, lacquers, shellacs, japans, enamels, and allied products		285101 2					
19	Other chemicals and allied products		280088 6					
20	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		308007 4					
21	PAPER AND PAPERBOARD PRODUCTS Paperboard boxes, containers, and corrugated paperboard		265001 8					
22	Other paper and paperboard products		260080 7					
23	Special dies, tools, die sets, jigs, and fixtures (except cutting tools for machine tools)		354430 1					
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>		970099 8					
25	TOTAL Sum of lines 1–24 should equal item 10, line a					\$		

Item 18A. SELECTED METALWORKING AND RELATED OPERATIONS PERFORMED IN THIS ESTABLISHMENT DURING 1997

Census code	Mark (X) appropriate box	
	591	592
591	Yes	No
208	1 <input type="checkbox"/>	2 <input type="checkbox"/>

Were any of the operations listed below performed in this establishment in 1997?

If "Yes," indicate in column (C) by marking appropriately, which of the specified operations were performed in this establishment during 1997. Where "Yes" is marked, show in column (D) the appropriate number of production workers on all shifts usually engaged in the specified operation.

Line No.	Operation (A)	Census code (B)	Was this operation performed in this establishment during 1997?		Number of production workers (on all shifts) usually employed when operated (estimate if necessary) (D)
			(C)		
			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 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997

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 18B. 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 Census product code 93000 00 8.

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 Census product code 99989 00 6, "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 (B)	Products shipped and other receipts		
			Value, f.o.b. plant (E)		
			584 Millions	Thousands	Dollars
1	Automotive job stampings (truck, bus, and passenger car) (34650)	34650 00 2	\$		
2	METAL COMMERCIAL CLOSURES AND METAL HOME-CANNING CLOSURES, (Except crowns) (34661) Metal and metal-composite closures, including home-canning closures	34661 05 8			
3	All other closures (including roll-ons, soft drinks, beer, and all other)	34661 23 1			
4	Metal crowns (including soft drinks, beer, and all other)	34662 00 7			
5	JOB STAMPINGS (Except automotive) (34692)	Recreational vehicle stampings (motor homes, travel trailers, etc.)	34692 01 2		
6		Motor and generator stampings	34692 05 3		
7		Aviation stampings	34692 11 1		
8		Agricultural equipment stampings (including tractor)	34692 15 2		
9		Computer stampings	34692 20 2		
10		Electrical appliance stampings (except refrigeration and laundry equipment)	34692 25 1		
11		Furniture stampings	34692 31 9		
12		Office machine stampings (excluding computer)	34692 41 8		
13		Radio and phonograph stampings	34692 52 5		
14		Television stampings	34692 53 3		
15		Refrigeration stampings (residential, commercial, and industrial)	34692 61 6		
16		Stove, heater, and air-conditioner stampings (residential, commercial, and industrial)	34692 71 5		
17		Laundry equipment stampings (residential, commercial, and industrial)	34692 84 8		
18		Other industrial equipment stampings	34692 88 9		
19	Other job stampings – Specify end use	34692 98 8			

CONTINUE WITH ITEM 18B ON PAGE 8

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued								
Line No.	Products and services *Item corresponds to products reported on Current Industrial Reports			Census product code	Products shipped and other receipts			
					Value, f.o.b. plant (E)			
	(A)	(B)	581	Millions	Thou-sands	Dollars		
20	STAMPED AND SPUN UTENSILS, COOKING AND KITCHEN, ALUMINUM (34694)	Top of range household utensils (those items generally used directly on top of source of heat) (including pressure cookers)		34694 11 7	\$			
21		Bakeware, pantryware, and miscellaneous household utensils		34694 14 1				
22		Camping and outdoor cooking equipment		34694 17 4				
23		Other (including commercial and hospital)		34694 29 9				
24	Stamped and Spun Utensils, Cooking and Kitchen (Except aluminum) (34695)	STAINLESS STEEL	Top of range household utensils (those items generally used directly on top of source of heat)	34695 07 2				
25			Bakeware, pantryware, and miscellaneous household utensils		34695 09 8			
26			Other (including commercial, hospital, and outdoor cooking equipment)		34695 15 5			
27		Tinware (including household, commercial, hospital, and outdoor cooking equipment)		34695 25 4				
28		Other stamped and spun cooking and kitchen utensils (including copper and vitreous enamel)		34695 99 9				
29	Metal spinning products (excluding cooking and kitchen utensils) – <i>Specify kind</i>			34696 00 5				
30	Other Stamped and Pressed Metal End Products (Including vitreous enameled products) (34699)	VITREOUS (PORCELAIN) ENAMELED PRODUCTS (Excluding cooking and kitchen utensils)	Architectural parts (exterior and interior) (including store front and curtain wall components)	34699 41 3				
31			Other products (including refrigerator parts, commercial and hospital utensils, and laundry equipment parts sold separately) – <i>Specify kind</i>		34699 48 8			
32		Chemical milling products; milled contoured metal; and clad and bonded metal products (excluding precious metals when used in jewelers' findings and materials)			34699 51 2			
33		Perforated metal end products			34699 59 5			
34		PAILS, ASHCANS, GARBAGE CANS, TUBS, ETC. (Excluding shipping containers)	Galvanized steel		34699 61 1			
35			Other metal (including other grades of steel)		34699 69 4			
36		Electronic enclosures (stamped and/or pressed) (excluding computer stampings)			34699 71 0			
37		Mailboxes (commercial and multiple unit residential)			34699 85 0			
38		Toolboxes			34699 89 2			
39		Other stamped and pressed metal end products (excluding spinning products) – <i>Specify kind</i>			34699 97 5			
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 1997) (34310)*			34310 10 2				
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) (34413)			34413 59 1				
42	PRECISION TURNED PRODUCTS (Made on CNC turning centers or screw machines)	For automotive use		34511 00 6				
43		For other use – <i>Specify end use if known</i>		34512 00 4				
44	Electroplating, plating, polishing, and anodizing (34710)			34710 00 4				
45	Noninsulated ferrous wire rope, cable, etc., not produced by wire drawers (including wire forms)			34961 00 3				

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – 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	Thousands	Dollars
(A)			(B)	Millions		
46	Dies (For metal cutting only) (35441)	Press brake dies	35441 21 1	\$		
47	FORMING AND DRAWING DIES	500 pounds weight or less	35441 22 9			
48		501 to 3,000 pounds weight	35441 24 5			
49		More than 3,000 pounds weight	35441 26 0			
50		STAMPING DIES (Including lamination and blanking dies)	Progressive-Type Dies	High-speed steel	35441 27 8	
51	Carbide			35441 28 6		
52	Other			35441 25 2		
53	All other stamping-type dies (punch, trim, notch, pierce, perforate, etc.)		35441 23 7			
54	Industrial models and prototypes		35441 83 1			
55	Other specially designed tooling		35441 89 8			
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 MA36E, Electric Housewares and Fans, for 1997) (36345)*		36345 00 7			
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				59		
62			67			
63	CONTRACT WORK	Receipts for work done for others on their own materials <i>Describe below products worked on and kind of work.</i>	93000 00 8			
64	MISCELLANEOUS RECEIPTS	Sales of scrap and refuse	99980 13 8			
65		Other miscellaneous receipts (including receipts for repair work, receipts for research and development work, etc.)	99980 98 9			
66	RESALES	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 10, line b.	99989 00 6			
67	TOTAL value of shipments and other receipts Sum of lines 1–66, column (E)		77000 00 8	\$		

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Item 19. 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 17.
- 3. Materials used to produce the items specified below should be reported in item 17.
- 4. Quantities produced for sale as such and not for incorporation in other products should be reported in item 18B.
- 5. Report quantities in the unit of measure specified in column (D).

Line No.	Item (A)	Census code (B)	Was this operation performed at this establishment during 1997? (C)		Unit of measure for quantities (D)	Quantities produced in this establishment and used in manufacturing other products made in this establishment (E)
			592 Yes	No		
1	Ferrous foundries	1001 7	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Short tons	
2	NONFERROUS FOUNDRIES (Except die-casting)	Aluminum	1002 5	1 <input type="checkbox"/>	2 <input type="checkbox"/>	↑ Thousand pounds ↓
3		Copper	1003 3	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
4		Zinc	1004 1	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
5		Other	1005 8	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
6	Nonferrous die-casting foundries	1006 6	1 <input type="checkbox"/>	2 <input type="checkbox"/>		
7	Precision turned products (on screw machines, turning centers, and CNC equipment)	1007 4	1 <input type="checkbox"/>	2 <input type="checkbox"/>		

Items 20 and 21 – Not applicable to this report

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

Item 22. CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report (<i>Print or type</i>)		Telephone	Area code	Number	Extension	
667	1		2			
Name of company			Address (<i>Number and street, city, State, ZIP Code</i>)			
Period covered	FROM: Month	Day	Year	TO: Month	Day	Year
	666	1		2		
Signature of authorized person			Title		Date	