

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

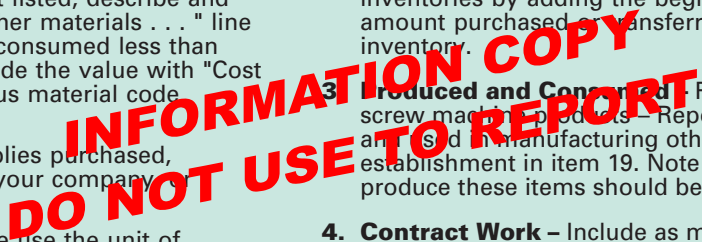
Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

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. Produced and Consumed – Forgings, foundries, and screw machine products. Report the quantities produced and sold in manufacturing other products made in this establishment in item 19. Note that the materials used to produce these items should be reported in item 17.

4. 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.

5. 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)	Consumption of purchased materials and of materials received from other establishments of your company			
				Cost, including delivery cost (freight-in) (E)			
				574 Millions	Thou- sands	Dollars	
1	PUMPS	Hydraulic and pneumatic fluid power pumps, motors, and hydrostatic transmissions	359412 4	\$			
2		Other pumps, except hydraulic	356102 4				
3	FLUID POWER PRODUCTS, (Hydraulic and pneumatic), EXCEPT PUMPS, MOTORS, AND HYDROSTATIC TRANSMISSIONS	Valves	349271 7				
4		Cylinders and rotary actuators	359301 9				
5		Hose or tube fittings and assemblies	349261 8				
6		Filters	356921 7				
7		Other fluid power products (except pumps, compressors, valves, cylinders and rotary actuators, hose or tube fittings and assemblies, and filters)	190089 3				
8	FABRICATED METAL PRODUCTS (Except forgings)	Bolts, nuts, screws, washers, rivets, and screw machine products	345001 2				
9		Pipe, valves, and pipe fittings (except plumbers')	349002 6				
10		Other fabricated metal products (except electrical enclosures)	340088 4				
11	Forgings		346000 3				
12	CASTINGS (Rough and semifinished)	Iron and steel	332001 7				
13		Nonferrous (aluminum, copper, etc.)	336010 4				
14	Shapes and Forms (Except castings, forgings, and fabricated metal products) (Continued on next page)	STEEL	Bar, bar shapes, and plates	331007 5			
15			Sheet and strip	331022 4			
16			Structural shapes and sheet piling	331023 2			
17			All other steel shapes and forms	331091 9			

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Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued						
Line No.	Materials, parts, and supplies (A)		Census material code (B)	Consumption of purchased materials and of materials received from other establishments of your company		
				Cost, including delivery cost (freight-in) (E)		
				574 Millions	574 Thou- sands	574 Dollars
18	Shapes and Forms (Except castings, forgings, and fabricated metal products) – Continued	Aluminum and aluminum-base alloy	335001 4	\$		
19		Other nonferrous shapes and forms	335091 5			
20	ELECTRIC MOTORS AND GENERATORS	Fractional horsepower electric motors (less than 1 hp)	362125 7			
21		Integral horsepower motors and generators (1 hp or more)	362120 8			
22	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and shapes		282104 9			
23	Plastics products consumed in the form of sheets, rods, tubes, and other shapes		308007 4			
24	Speed changers, gears, and industrial high-speed drives		356601 5			
25	Electrical enclosures (metal and plastics)		190091 9			
26	Current-carrying wiring devices		364300 4			
27	Electrical transmission, distribution, and control equipment		360101 0			
28	Paper and paperboard containers (including shipping sacks and other paper packing supplies)		260091 4			
29	Cost of all other materials and components, parts, containers, and supplies consumed <i>Describe the principal materials, etc. included in this value.</i>		970099 8			
30	TOTAL Sum of lines 1–29 should equal item 10, line a			\$		

Item 18A – Not applicable to this report

CONTINUE WITH ITEM 18B ON PAGE 7

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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	Products shipped and other receipts		
				Value, f.o.b. plant (E)		
				584	Thou-	Dollars
	(A)	(B)	Millions	sands		
1	Commercial Cooking and Food – Warming Equipment (35891)	NONELECTRIC	Commercial ranges, ovens, and broilers (except electric)	35891 11 8	\$	
2			Deep-fat fryers (except electric)	35891 13 4		
3			Other commercial cooking equipment, including griddles, toasters, coffee urns, pressure cookers–steam, etc. (except electric) – <i>Specify kind</i>	35891 30 8		
4			Commercial food-warming equipment, including steam tables (except electric)	35891 31 6		
5		ELECTRIC	Commercial ranges, ovens, and broilers	35891 61 3		
6			Commercial microwave stoves and ovens	35891 63 9		
7			Deep-fat fryers	35891 67 0		
8			Other commercial cooking equipment (including griddles, toasters, coffee makers, coffee urns, etc.) – <i>Specify kind</i>	35891 70 4		
9			Commercial food-warming equipment (including hot food server units and steam tables)	35891 81 1		
10			Parts and accessories for commercial cooking and food-warming equipment	35891 85 2		
11	Service Industry Machines and Parts (35892)	WATER HEATERS, INCLUDING PARTS (Except household and boilers)	Instantaneous	35892 01 7		
12			All others with more than 120 gallons (454.2 liters) capacity	35892 02 5		
13		WATER SOFTENERS	Industrial	35892 22 3		
14			Farm, household, and commercial	35892 26 4		
15	(Continued on next page)		Parts for water softeners (excluding tanks)	35892 27 2		

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)			581 (B)	584 Millions	Thou-sands	Dollars
16	Service Industry Machines and Parts (35892) – Continued	COMMERCIAL AND INDUSTRIAL FLOOR AND CARPET CLEANING EQUIPMENT	Sanding and scrubbing machines	35892 42 1	\$		
17			Carpet cleaning equipment (including sweepers, except vacuum cleaners)	35892 43 9			
18			Other machines, including waxing and polishing machines (except vacuum cleaners)	35892 46 2			
19			Parts and attachments	35892 45 4			
20		DISHWASHING MACHINES, COMMERCIAL-TYPE	Conveyor type	35892 73 6			
21			All other	35892 75 1			
22			Parts for dishwashing machines	35892 76 9			
23		Sewer, pipe, and drain cleaning equipment, including hand-operated but excluding high-pressure (more than 1,000 p.s.i.) cleaning and blasting machinery and equipment		35892 84 3			
24		High-pressure (more than 1,000 p.s.i.) cleaning and blasting machinery and equipment, including soot removing (except foundry)		35892 86 8			
25		OTHER SERVICE INDUSTRY MACHINES AND PARTS	Commercial car, truck, and bus washing equipment	35892 82 7			
26			Trash and garbage compactors	35892 83 5			
27			Sewage Treatment Equipment	Distilling or rectifying equipment	35892 85 0		
28				Filtering or purifying apparatus	35892 87 6		
29				Centrifuges	35892 88 4		
30				Other sewage treatment equipment	35892 89 2		
31			Electric hand-drying apparatus	35892 91 8			
32			Other service industry equipment	35892 95 9			
33			Parts for other service industry machines	35892 97 5			
34			Commercial and Industrial Vacuum Cleaners (35893)	PORTABLE	Complete machine	35893 01 5	
35		Parts and attachments		35893 02 3			
36		Central system, including parts and attachments		35893 07 2			
37		Restaurant, cafeteria, and bar furniture and fixtures (including fabricated food service and processing equipment counters, dishtables, tableware, dispensers, tables, table tops and bases, tray stands, serving tables, bus carts, and food trucks), except cooking, warming, refrigeration, etc., equipment		25992 00 9			
38		Industrial pumps (except hydraulic fluid power pumps, automotive circulating pumps, and measuring and dispensing pumps) (corresponds to the sum of survey item codes 1098-1298 as reported on CIR Form MA35P, Pumps and Compressors, for 1997)*		35612 00 1			
39		INDUSTRIAL CONTROLS	Specific-purpose (corresponds to the sum of survey item codes 6101- 6355 as reported on CIR Form MA36A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls, for 1997)*		36252 00 5		
40			General-purpose (corresponds to the sum of survey item codes 6402- 6509 as reported on CIR Form MA36A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls, for 1997)*		36253 00 3		
41			Parts for industrial controls and motor controller accessories (corresponds to survey item codes 6703 and 6705 as reported on CIR Form MA36A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls, for 1997)*		36254 00 1		
42		ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT	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.		18		
43					26		
44					34		

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Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued

Line No.	Products and services (A)	Census product code (B)	Products shipped and other receipts		
			Value, f.o.b. plant (E)		
			584 Millions	Thou-sands	Dollars
45	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	\$		
46	MISCELLANEOUS RECEIPTS Sales of scrap, refuse, and other miscellaneous receipts (including receipts for repair work, etc.)	99980 00 5			
47	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			
48	TOTAL value of shipments and other receipts Sum of lines 1–47, column (E)	77000 00 8	\$		

Item 19. SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT

INSTRUCTIONS

- Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment.
- Purchases or receipts of the items specified below should be reported only in item 17.
- Materials used to produce the items specified below should be reported in item 17.
- Quantities produced for sale as such and not for incorporation in other products should be reported in item 18B.
- 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			
			591	593			
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

CONTINUE WITH ITEM 22 ON PAGE 10

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	
	666	1			2	
Signature of authorized person			Title			Date