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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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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 reported in item 10, line b.

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."

5. Produced and Consumed – Forgings, foundries, and screw machine products – Report the quantities produced and used 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.

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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	FABRICATED METAL PRODUCTS (Except forgings)	Sheet metal products (except stampings)	344401 5	\$		
2		Bolts, nuts, screws, washers, rivets, and screw machine products	345001 2			
3		Metal stampings	346901 2			
4		All other fabricated metal products	340063 7			
5	Forgings		346000 3			
6	Castings (rough and semifinished)		330091 0			
7	SHAPES AND FORMS (Except castings and forgings)	Steel	331002 6			
8		Copper and copper-base alloy	335105 3			
9		Aluminum and aluminum-base alloy	335001 4			
10		Other nonferrous shapes and forms	335099 8			
11	COMPONENTS FOR ELECTRONIC CIRCUITRY, EXCEPT TUBES	Printed circuit boards	367201 1			
12		Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components)	367981 8			
13		Semiconductors, including transistors, diodes, rectifiers, and integrated circuits	367408 2			
14		Capacitors	367501 4			
15		Resistors	367601 2			
16		Other components and accessories, n.e.c.	367990 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	Thou- sands	Dollars
17	Insulated wire and cable (including magnet wire)	335796 9	\$		
18	Current-carrying wiring devices	364300 4			
19	Fractional horsepower electric motors (less than 1 hp)	362111 7			
20	Electronic communication equipment	366301 0			
21	Electrical instrument mechanisms and meter movements (including instrument relays)	382501 5			
22	Electronic computing equipment	357010 8			
23	Optical instruments and lenses (except sighting, tracking, and fire control)	382700 3			
24	Automatic garage door controllers	369981 6			
25	Fabricated plastics products (except gaskets, hoses, and belting)	308004 1			
26	Paper and paperboard containers (including shipping sacks and other paper packaging products)	260091 4			
27	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			
28	TOTAL Sum of lines 1–27 should equal item 10, line a		\$		

Item 18A. PRODUCTION OF FLEXIBLE CORD SETS AND APPLIANCE WIRE AND CORD IN THIS ESTABLISHMENT DURING 1997		Mark (X) appropriate boxes	
		Yes	No
1. Are flexible cord sets and appliance wire and cord (see line 15, item 18B) produced in this establishment?	401	5504 <input type="checkbox"/>	5520 <input type="checkbox"/>
If "Yes" is marked, please answer questions 2 and 3:			
2. Were these products made primarily from wire insulated in this establishment?	402	5553 <input type="checkbox"/>	5561 <input type="checkbox"/>
3. Were these products made primarily from purchased insulated wire or insulated wire received from other plants of your company?	403	5652 <input type="checkbox"/>	5660 <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. The Current Industrial Reports related to this report are as follows:

- a. MA33L, Insulated Wire and Cable
- b. MA35R, Computers and Office and Accounting Machines
- c. MA36K, Wiring Devices and Supplies
- d. MA36P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment
- e. MA36Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components
- f. MA38B, Selected Instruments and Related Products

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 (A)	Census product code (B-1)	Corresponds to the sum of products reported for 1997 on –		Products shipped and other receipts			
			CIR form (B-2)	Codes (B-3)	Value, f.o.b. plant (E)			
					584 Millions	Thou- sands	Dollars	
1	Electronic teaching machines, teaching aids, trainers, and simulators, including kits (36991)*	36991 00 8	MA36P	4416-4418	\$			
2	Laser Systems and Equipment (Except communication) (36992)	Search and detection equipment						
3		Analytical and scientific instruments, except optical						
4		Sighting and tracking equipment						
5		Commercial, geophysical, and meteorological instruments						
6		Surveying and drafting equipment						
7		INDUSTRIAL	Welding equipment					
8			Boring and drilling equipment					
9			Gear cutting machines					
10			Textile printing equipment					
11			Printing presses					
12			Etching and engraving equipment					
13			Photographic equipment					
14			Holographic equipment					
15			Quality control equipment					
16		MEDICAL	Electromedical					
17	Dental							

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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 <small>581</small>	Corresponds to the sum of products reported for 1997 on –		Products shipped and other receipts		
				CIR form (B-2)	Codes (B-3)	Value, f.o.b. plant (E)		
						<small>584</small> Millions	Thou- sands	Dollars
(A)		(B-1)						
18	Laser Systems and Equipment (Except communication) (36992) – Continued	Bar code scanners/readers*	35771 00 5	MA35R	3752	\$		
19		Laser sources*	36992 71 7	MA36P	5212–5260			
20		Laser components	36992 73 3					
21		Other	36992 97 2					
22	Ultrasonic equipment (except medical and dental) (36995)*		36995 00 9	MA36P	5305			
23	Electronic systems and equipment, n.e.c. (including automatic garage door openers, and amplifiers, except audio, RF power, and video) (36999)*		36999 00 1	MA36P	5420–5435			
24	Christmas tree lighting sets		36996 01 5					
25	All other apparatus wire and cordage (manufactured primarily from purchased insulated wire) (36996)		36996 05 6					
26	ELECTRICAL PRODUCTS, N.E.C. (Excluding garage door openers) (3699A)	Electrical door openers, except garage door openers	3699A 05 7					
27		Electric gongs, chimes, bells, etc.	3699A 01 6					
28		Electric insect repellent lamps	3699A 02 4					
29		Electric insect killers	3699A 03 2					
30		Electrical outboard motors for boats (complete propulsion unit)	3699A 07 3					
31		Other electrical products, n.e.c. – <i>Specify kind</i>	3699A 21 4					
32	Switches for electrical circuitry (including vehicular) (36433)*		36433 00 1	MA36K				
33	Communication systems and equipment, except broadcast, but including microwave equipment such as transmitters, receivers, and amplifiers, and space satellites (36631)*		36631 00 0	MA36P				
34	Broadcast, studio, and related electronic equipment (36632)*		36632 00 8					
35	Alarm systems, including electric sirens, and horns (36691)*		36691 00 4					
36	PRINTED CIRCUIT BOARDS OR ASSEMBLIES (Report contract work receipts for work done by you for others on their own materials on lines 46 and 47)	Printed circuit (wiring) boards (36720)*	36720 00 1	MA36Q	8602–8637			
37		Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components) (36798)*	36798 00 7		8751–8790			
38		Other electronic components n.e.c. (including static power supply converters and cable harness assemblies)*			36799 20 3	9713–9745		
39	Search and detection, navigation and guidance systems and equipment (38122)*		38122 00 8		MA38B	4202–4382		
40	Test equipment for testing electrical, radio and communications circuits, and motors (38252)*		38252 00 3	5701–5849				
41	Optical instruments and lenses (except sighting, tracking and fire control instruments, binoculars, and astronomical instruments)*		38274 20 5	8221–8245				

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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 <small>581</small>	Corresponds to the sum of products reported for 1997 on –		Products shipped and other receipts		
				CIR form (B-2)	Codes (B-3)	Value, f.o.b. plant (E)		
	(A)	(B-1)				<small>584</small> Millions	Thou- sands	Dollars
42	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			\$		
43			26					
44			34					
45			42					
46			59					
47	CONTRACT WORK (Receipts for work done for others on their own materials)	Printed circuit (wiring boards)*	93000 31 3					
48		Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components)	93000 32 1					
49		Receipts for work done for others on their own materials <i>Describe below products worked on and kind of work.</i>	93000 00 8					
50	MISCELLANEOUS RECEIPTS	Receipts for research and developmental work	99980 41 9					
51		Other miscellaneous receipts (including repair work, installation, sales of scrap and refuse)	99980 97 1					
52	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					
53	TOTAL value of shipments and other receipts Sum of lines 1–52, 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	