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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

4. Resales – Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacturing, processing, or assembly should be reported in item 10, line b. If sold to 17 b, the value of these products should be reported in item 17 b. If sold to other establishments, this establishment should be reported in item 18B under Census product code 950006, "Resales."

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	Fluid power products, hydraulic and pneumatic		190090 1	\$		
2	Electric motors and generators		362100 2			
3	Ball and roller bearings (mounted or unmounted)		356200 6			
4	FABRICATED METAL PRODUCTS, (Except fluid power products and forgings)	Pipe, valves, and pipe fittings, except fluid power	349402 8			
5		Bolts, nuts, screws, washers, rivets, and screw machine products	345001 2			
6		Fabricated structural metal products, including metal tanks, heat exchangers, steam condensers, other boiler products, steel plate, weldments, and sheet metal products	344001 3			
7		Other	340072 8			
8	Forgings		346000 3			
9	CASTINGS (Rough and semifinished)	Iron and steel	332001 7			
10		Nonferrous	336010 4			
11	Shapes and forms (Except castings, forgings, and fabricated metal products)	STEEL	Bars, bar shapes, and plates	331007 5		
12			Sheet and strip	331022 4		
13			All other	331034 9		
14		NONFERROUS	Aluminum and aluminum-base alloy	335001 4		
15			Other	335091 5		
16	Flexible packaging materials and paperboard containers and boxes and corrugated paperboard		190011 7			

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Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued

Line No.	(A) Materials, parts, and supplies	Census material code 571 (B)	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			(E)		
			574	Thou-	Dollars
			Millions	sands	
17	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	\$		
18	TOTAL Sum of lines 1–17 should equal item 10, line a		\$		

Item 18A – Not applicable to this report

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

INSTRUCTIONS

- 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.
- 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.
- 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.
- 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."
- 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.	(A) Products and services	Census product code 581 (B)	Products shipped and other receipts		
			Value, f.o.b. plant		
			(E)		
			584	Thou-	Dollars
			Millions	sands	
1	CENTRIFUGAL FANS AND BLOWERS	35643 17 0	\$		
2	Blower-filter units				
3	Classes I and II fans (more than 1 1/2 inches to 6 3/4 inches maximum total pressure)	35643 19 6			
4	Classes III and IV fans (more than 6 3/4 inches maximum total pressure)	35643 21 2			
5	Industrial fans (excluding blowers, turboblowers, and multistage blowers)	35643 24 6			
6	Positive displacement blowers (excluding turboblowers)	35643 27 9			
7	Multistage blowers	35643 29 5			
	Other centrifugal fans and blowers (including small housed blowers or utility sets, furnace blowers, lightweight air-conditioning blowers, and turboblowers)	35643 44 4			

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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)					
			581	584	Millions	Thousands	Dollars		
8	Propeller Fans and Accessories, Axial Fans, and Power Roof Ventilators, and Parts for All Fans and Blowers (35644)	AXIAL FANS	Directly connected to driver	35644 13 7	\$				
9			Belt-driven	35644 15 2					
10		INDUSTRIAL PROPELLER FANS	Directly connected to driver	35644 33 5					
11				Belt-driven	35644 35 0				
12			Penthouses, shutters, guards, and other parts and accessories for industrial centrifugal, axial, and propeller fans and blowers (except power roof ventilators)	35644 38 4					
13		POWER ROOF VENTILATORS GROUP	Axial and propeller type	35644 41 8					
14				Centrifugal type	35644 43 4				
15				Parts for power roof ventilators	35644 45 9				
16	Dust Collection, Air Purification Equipment, and Air Washers for Heating, Ventilating, and Air-Conditioning Systems (For cleaning incoming air) (35645)	Air washers		35645 31 6					
17		DUST COLLECTION AND OTHER AIR PURIFICATION EQUIPMENT FOR HEATING, VENTILATING, AND AIR-CONDITIONING SYSTEMS	Electrostatic precipitation equipment	35645 41 5					
18			Air filters for air-conditioners and furnaces, etc., of 2400 CFM or less	35645 43 1					
19			Other dust collection and other air purification equipment (including air filters for air-conditioners and furnaces, etc., of more than 2400 CFM) – Specify kind						
20			Parts	35645 46 4					
21			Dust collection and other air purification equipment for industrial gas cleaning systems (for cleaning outgoing air)	35646 11 6					
22			Parts for industrial air purification equipment	35646 21 5					
23			Household fans (except attic; report attic fans on the appropriate line earlier in this item) (corresponds to the sum of items 4171–4198 as reported on CIR form MA36E, Electric Housewares and Fans, for 1997)	36341 00 6					
24	Filters and Strainers (Except for fluid power systems, motor vehicles, and internal combustion engines; report motor vehicles filters on lines 35–37 and other products on lines 63–70)	FILTERS AND STRAINERS ASSEMBLIES (CONTAINMENT OR HOUSING DEVICES), WITH OR WITHOUT FILTER ELEMENT INSTALLED	For water	35693 04 3					
25				For other fluids	35693 08 4				
26		FILTERS REPLACEMENT ELEMENTS (MEDIA)	Reusable (cleanable)	35693 11 8					
27				Nonreusable, including disposable (throwaway) litter cartridges	35693 12 6				
28			Parts and accessories, sold separately	35693 89 4					
29			Unitary air-conditioners (complete units, except air source heat pumps) (corresponds to the sum of item codes 6210–6289 as reported on CIR form MA35M, Refrigeration, Air-Conditioning, and Warm Air Heating Equipment, for 1997)	3585E 00 6					
30	REFRIGERATION COMPRESSORS (Complete units)	For use other than in motor vehicles (corresponds to the sum of items 5811–5858 as reported on CIR form MA35M, Refrigeration, Air-Conditioning, and Warm Air Heating Equipment, for 1997)		3585A 00 5					
31		For use in motor vehicles (corresponds to item 5869 as reported on CIR form MA35M, Refrigeration, Air-Conditioning, and Warm Air Heating Equipment, for 1997)		3585B 00 3					
32			Air and gas compressors (complete units, except refrigeration) (correspond to the sum of items 3298–3388 as reported on CIR form MA35P, Pumps [Except Hydraulic] and Compressors, for 1997)	35633 00 7					

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)			
				581	584	Millions	Thousands	Dollars
33	Vacuum pumps (complete units, except laboratory; report laboratory equipment on lines 63–70) (corresponds to the sum of items 3398–3477 as reported on CIR form MA35P, Pumps [Except Hydraulic] and Compressors, for 1997)			35634 00 5	\$			
34	Parts for air and gas compressors and vacuum pumps (corresponds to item 3900 as reported on CIR form MA35P, Pumps [Except Hydraulic] and Compressors, for 1997)			35636 00 0				
35	Motor Vehicle Filters	AIR	Light-duty (car and light truck)	37144 07 8				
36			Heavy-duty	37144 08 6				
37		Other, including oil, fuel, coolant, and hydraulic			37144 00 3			
38		Sheet Metal Work						
	Roof ventilators			34449 31 4				
39	Louvers and dampers for heating, ventilation, and air-conditioning			34449 41 3				
40	AIR-CONDITIONING DUCTS	Steel		34441 21 2				
41		Aluminum		34441 23 8				
42	STOVE PIPE, FURNACE SMOKE PIPE, AND ELBOWS	Steel		34441 27 9				
43		Aluminum		34441 29 5				
44	RESTAURANT AND HOTEL KITCHEN SHEET METAL EQUIPMENT	Steel		34449 53 8				
45		Aluminum		34449 55 3				
46	Other – <i>Specify type of metal and application</i>			34440 00 8				
47	Sound control equipment (except for jet engine and gas turbine; report such products on line 48)			34432 56 7				
48	Other fabricated steel plate work (boiler shop products), including weldments, heat exchangers, steam condensers, tanks, vessels, and gas cylinders – <i>Specify kind</i>			34430 00 1				
49	Custom roll form products – <i>Specify kind of metal</i>			34498 00 6				
50	Industrial process furnaces, ovens, and kilns, and industrial electric heating equipment			35670 00 9				
51	Other heating equipment, except electric			34330 00 1				
52	Fabricated pipe and pipe fittings made from purchased pipe – <i>Specify type of metal</i>			34980 00 3				
53	JOB STAMPINGS	Automotive		34650 00 2				
54		Other		34692 00 4				
55	Farm machinery and equipment (corresponds to the sum of items 6101–8143, except "totals", as reported on CIR form MA35A, Farm Machinery and Lawn and Garden Equipment, for 1997)			35230 00 2				
56	Conveyors and conveying systems (except hoists and farm elevators; report hoists on lines 63–70)			35350 00 8				
57	ELECTRIC MOTORS AND GENERATORS	Fractional horsepower motors (less than 1 hp) (For CIR comparability, see paragraph 4 in the instructions for MA36H, Motors and Generators, for 1997)		36211 00 1				
58		Integral horsepower motors and generators (at least 1 hp) (For CIR comparability, see paragraph 4 in the instructions for MA36H, Motors and Generators, for 1997)		36212 00 9				
59		Other, including generator sets, hermetics, and other rotating equipment, and land transportation motors and generators		36210 00 3				
60		Parts and supplies for motors, generators, sets, and other rotating equipment, excluding motors for built-in jobs (For CIR comparability, see paragraph 4 in the instructions for MA36H, Motors and Generators, for 1997)		36219 00 4				
61	Turbine generator sets, turbines, turbine generators, and parts (except aircraft; report those on lines 63–70)			35110 00 6				

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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
62	Receipts for machine shop job work and job order repair	35995 00 0	\$		
63	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			
64		26			
65		34			
66		42			
67		59			
68		67			
69		75			
70		83			
71	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			
72	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			
73	MISCELLANEOUS RECEIPTS Miscellaneous receipts (including receipts for repair work, installation fees, sale of scrap and refuse, etc.)	99980 00 5			
74	TOTAL value of shipments and other receipts Sum of lines 1-73, column (E)	77000 00 8	\$		

CONTINUE WITH ITEM 19 ON PAGE 10

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 into 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?		Unit of measure for quantities (D)	Quantities produced in this establishment and used in manufacturing other products made in this establishment (E)
			(C)			
			591	592		
			Yes	No		
1	Ferrous foundries	1001 7	1 <input type="checkbox"/>	2 <input type="checkbox"/>	Short tons	
2	NONFERROUS FOUNDRIES (Except die-castings)	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	