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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

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		Census material code	Consumption of purchased materials and of materials received from other establishments of your company		
				Cost, including delivery cost (freight-in)		
				(E)		
	(A)	(B)	574	Thou-	Dollars	
			Millions	sands		
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 AND MOTORS	Valves	349271 7			
4		Hose or tube fittings and assemblies	349261 8			
5		Cylinders and rotary actuators	359301 9			
6		Filters	356921 7			
7		Other fluid power products (except pumps, valves, compressors, cylinders, rotary actuators, hose or tube fittings and assemblies, and filters)	190089 3			
8	Fabricated metal products (except forgings)		340075 1			
9	Forgings		346000 3			
10	CASTINGS (Rough and semi-finished)	Iron and steel	332001 7			
11		Nonferrous	336010 4			
12	Shapes and Forms (Except castings, forgings, and fabricated metal products)	STEEL	Bars, bar shapes, and plates	331007 5		
13			Sheet and strip	331022 4		
14			All other steel shapes and forms	331034 9		
15	Nonferrous shapes and forms		336002 1			
16	Integral horsepower electric motors and generators (1 hp or more)		362120 8			

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Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued								
Line No.	Materials, parts, and supplies			Census material code	Consumption of purchased materials and of materials received from other establishments of your company			
					Cost, including delivery cost (freight-in)			
	(A)			571 (B)	574 (E)	Millions	Thousands	Dollars
17	BEARINGS (Mounted or unmounted)	Ball		356218 8	\$			
18		Roller		356201 4				
19	Plain bearings and bushings			356810 2				
20	Speed changers, gears, and industrial high-speed drives			356601 5				
21	Electrical transmission, distribution, and control equipment			360101 0				
22	Fabricated rubber products (except tires, tubes, hose, belting, and gaskets)			306902 8				
23	Cost of all other materials and components, parts, containers, and supplies consumed			970099 8				
	Describe the principal materials, etc., included in this value.							
24	TOTAL Sum of lines 1–23 should equal item 10, line a				\$			

Item 18A – Not applicable to this report

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."

Line No.	Products and services			Census product code	Products shipped and other receipts			
					Quantity	Value, f.o.b. plant (E)		
	581 (A)	583 (D)	584 (E)	Millions	Thousands	Dollars		
1	Paper Industries Machinery (35543)	WOOD PREPARATION EQUIPMENT	Water – jet bark strippers	35543 17 2		\$		
2			Other wood preparation equipment (including debarkers, chippers, knotters, splitters, chipscreens, etc.)	35543 19 8				
3	(Continued on next page)	PULP MILL MACHINERY	Grinders and refiners (TMP) for the manufacture of mechanical pulp	35543 02 4				
4			Digesters and other equipment for the manufacture of chemical pulp	35543 03 2				
5			Deckers, thickeners, wet lap machines, bleaching equipment, pulp screens, washers, and save-alls	35543 04 0				

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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)	Unit of measure for quantities (C)	Products shipped and other receipts				
					Quantity (D)	Value, f.o.b. plant (E)			
						Millions	Thousands	Dollars	
6	Paper Industries Machinery (35543) - Continued Other pulp mill machinery - Specify kind		35543 05 7			\$			
7	PAPER MILL MACHINERY	Stock preparation equipment: refiners (chip, conical, deflaker, disk, etc.), pulpers, beaters, jordans, etc.	35543 09 9						
8		Paper machines	Paper making machines						
			Dryers for paper pulp, paper, or paperboard	35543 27 1					
9			Other paper making machines (including headbox forming area, presses, and reels)	35543 29 7					
10			Coating machines (including equipment for applying sizing or pigment coating to paper)	35543 12 3					
11			Calendering and similar rolling machines for finishing paper	35543 13 1					
12			Machines for finishing paper (except calendering or similar rolling) (including winders, rewinders, sheeters, wrappers, etc.)	35543 14 9					
13			Other paper machines - Specify kind	35543 15 6					
14	PAPER AND PAPER-BOARD CONVERTING EQUIPMENT	Cutting machines (except sheeters and winders)	35543 21 4						
15		Machines for making bags, sacks, or envelopes	35543 22 2						
16		Corrugated box making machines	35543 23 0						
17		Machines for making cartons, boxes, cases, tubes, drums, or similar containers, except by molding (excluding corrugated box making machines)	35543 24 8						
18		Machines for molding articles in paper pulp, paper, or paperboard	35543 25 5						
19		Other paper and paperboard converting equipment, n.e.c.	Equipment, n.e.c., for finishing paper or paperboard	35543 37 0					
20	Equipment, n.e.c., for converting paper and paperboard		35543 39 6						
21	PARTS AND ATTACHMENTS FOR PAPER INDUSTRIES MACHINERY (Sold separately) (35544)	Parts and attachments for wood preparation equipment	35544 01 4						
22		Parts and attachments for pulp mill machinery	35544 02 2						
23		Parts and attachments for machines for finishing paper	35544 03 0						
24		Parts and attachments for paper mill machinery (except machines for finishing paper)	35544 04 8						
25		Parts and attachments for paper and paperboard converting equipment	35544 05 5						

CONTINUE WITH ITEM 18B ON PAGE 8

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued											
Line No.	Products and services			Census product code 581	Unit of measure for quantities (C)	Products shipped and other receipts					
						Quantity 583 (D)	Value, f.o.b. plant (E)				
							584 Millions	Thou- sands	Dollars		
(A)	(B)	(C)	(D)	(E)	(E)	(E)	(E)	(E)	(E)		
26	Bulk Material Handling Conveyors and Conveying Systems (Except hoists and farm elevators) (35355)	CONVEYORS AND ELEVATORS	Belt conveyors and systems	35355 05 6							
27			Screw conveyors	35355 09 8							
28			Bucket elevators	35355 11 4							
29			Pneumatic conveyors	35355 15 5							
30			Portable conveyors (except farm)	35355 19 7							
31			En masse conveyors	35355 23 9							
32			Vibrating conveyors	35355 27 0							
33			Bulk handling conveyors and conveying systems especially designed for underground use	35355 12 2							
34			Other bulk handling conveyors and conveying systems	35355 13 0							
35			UNLOADING AND RECLAIMING SYSTEMS	Bucket wheel reclaimers	35355 41 1						
36		Vibrating feeders		35355 43 7							
37		All other, such as bins, apron feeders, gates, etc.		35355 45 2							
38		LOADING AND STORING SYSTEMS	Traveling stackers	35355 51 0							
39			Other, such as trippers, centrifugal throwers, etc. – Specify kind	35355 55 1							
40	Printing Presses, Offset Lithographic (35551)	SHEET-FED	Small (under 14 inches)	35551 01 9							
41			Other (14 inches and over)	35551 03 5							
42		ROLL-FED (Web-fed)	Business forms	35551 33 2	Complete presses						
43			Commercial (including heat set)	35551 35 7							
44			Newspaper	35551 32 4							
45			All other	35551 36 5							
46	Printing Presses, Other Than Lithographic (35552)	FLEXO-GRAPHIC, SHEET-FED AND WEB-FED (Roll-fed)	Presses under 16 inches	35552 03 3	Complete presses						
47			Presses 16 inches and over	35552 05 8							
48		Letterpresses reel fed, except flexographic	35552 11 6								
49		Letterpresses, except reel fed and flexographic	35552 13 2								
50		Gravure printing machinery	35552 15 7								
51		Other printing presses, including metal decorating, proof, screen, pad printing, and rebuilt presses	35552 19 9								
52		Parts, attachments, and accessories for printing presses (sold separately) including flying pasters, dryers, folders, and reels			35558 83 2						
53	Plastics-Working Machinery and Equipment (Excluding patterns and molds) (35593)	Compression molding machines		35593 01 1							
54		EXTRUSION MACHINES	Single screw extruders	Up to 2.49 inch screw diameter	35593 03 7						
55				2.50 to 5.49 inch screw diameter	35593 05 2						
56				5.50 inch and up screw diameter	35593 07 8						
	(Continued on next page)	(Continued on next page)									

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

Line No.	Products and services		Census product code 581	Unit of measure for quantities (C)	Products shipped and other receipts				
					Quantity 583	Value, f.o.b. plant (E)			
						584	Thou-	Dollars	
(A)	(B)	(D)	Millions	sands					
57	Plastics-Working Machinery and Equipment (Excluding patterns and molds) (35593) – Continued	EXTRUSION MACHINES – Continued	Multiple screw extruders	35593 09 4					
58		INJECTION MOLDING MACHINES							
59			More than 500 tons	35593 13 6					
60			Blow molding machines	35593 15 1					
61			Granulators and pelletizers	35593 17 7					
62			Thermoforming machines	35593 19 3					
63			Calendering or other rolling machines for working plastics	35593 21 9					
64			Machines for cold working plastics (drilling, milling, slicing, grinding, etc.)	35593 23 5					
65			Machinery for treating plastics by means of a temperature change	35593 24 3					
66			Other machinery for forming plastics	35593 26 8					
67			Other machinery for working plastics or making products from plastics	35593 28 4					
68		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. Specify unit of measure for quantity. For all remaining products, write "Other" and report a single total value.</i>						
69			18						
70			26						
71			34						
72			42						
73			59						
74			67						
75			75						
76	CONTRACT WORK	Receipts for work done for others on their own materials		93000 00 8					
77		<i>Describe below products worked on and kind of work.</i>							
78									
79									
80									
81									
82	MISCELLANEOUS RECEIPTS	Receipts for repair work		99980 61 7					
83		Other miscellaneous receipts		99980 98 9					
84	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					
85	TOTAL value of shipments and other receipts Sum of lines 1–84, column (E)			77000 00 8					

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	