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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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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 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)		
				Millions	Thou-sands	Dollars
			571	574		
1	FABRICATED METAL PRODUCTS (Except castings and forgings)	Bolts, nuts, screws, washers, rivets, and screw machine products	345001 2	\$		
2		Fabricated metal pipe	349008 3			
3		Fabricated metal valves and pipe fittings	349409 3			
4		Parts and attachments specially designed for heating equipment (except electric)	343309 1			
5		Other fabricated metal products	340065 2			
6	Forgings		346000 3			
7	CASTINGS (Rough and semifinished)	Iron and steel	332001 7			
8		Nonferrous castings	336010 4			
9	Shapes and Forms (Except castings, forgings, and fabricated metal products)	STEEL	Bars, bar shapes, and plate	331007 5		
10			Sheet and strip	331022 4		
11			Structural shapes	331071 1		
12			All other steel shapes and forms	331091 9		
13		Copper and copper-base alloy	335105 3			
14		Aluminum and aluminum-base alloy	335001 4			
15		All other nonferrous shapes and forms	335099 8			
16		Electric motors and generators (all types)	362101 8			
17		Automatic temperature controls (thermostats, regulators, etc.)	382201 2			
18		Paperboard containers, boxes, and corrugated paperboard	265001 8			

CONTINUE WITH ITEM 17 ON PAGE 6

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)		
		571	574	Thou-	Dollars
			Millions	sands	
19	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	\$		
20	TOTAL Sum of lines 1–19 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.	Products and services *Item corresponds to products reported on Current Industrial Reports (A)			Census product code (B)	Unit of measure for quantities (C)	Products shipped and other receipts			
						Value, f.o.b. plant (E)			
	Quantity (D)	Millions	Thou-	Dollars					
			581		583	584	sands		
1	Cast Iron Heating Boilers, Radiators, and Convectors (Except parts) (34333)	CAST IRON BOILERS	Gas	34333 21 1	Number				
2			Other	34333 35 1					
3	RADIATORS AND CONVECTORS		Cast iron and steel	34333 65 8					
4			Aluminum and other nonferrous metal (including baseboard and finned tube-type, residential, industrial, and special types)	34333 77 3					
5	Domestic Hearth Appliances (Except electric; excluding parts) (34334)	GAS-FUELED	B-vent, direct vent, vent-free -- free-standing and fireplace insert	34334 11 0					
6			Log sets	Vented		34334 13 6			
7				Ventless		34334 15 1			
8				Built-in appliances		B-vent	34334 17 7		
9			Direct vent			34334 19 3			
10			Vent-free			34334 21 9			

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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	Unit of measure for quantities	Products shipped and other receipts		
					Quantity	Value, f.o.b. plant (E)	
						583	584
(A)	(B)	(C)	(D)	Millions			
11	Coal, kerosene, gasoline, and fuel oil		34334 22 7	↑ Number ↓		\$	
12	WOOD	Free standing fireplaces and stoves (all types) including circulating and radiants	34334 30 0				
13		Pellet fuel-burning heaters	34334 40 9				
14		Heat exchangers and zero clearance (factory built) fireplaces	34334 62 3				
15		Fireplace inserts	34334 74 8				
16	STEEL HEATING BOILERS (15 p.s.i. working pressure or less) AND ALL HOT WATER HEATING BOILERS (Excluding parts) (34335) (Exclude value of oil burners shipped with boilers; report burners on lines 28 and 29)		400,000 Btu/hr or less	34335 12 5			
17			400,001 Btu/hr or more (including scotch-type and horizontal fire box)	34335 20 8	Number		
18	Warm air furnaces (including duct, humidifiers, central systems and self-contained, and electric comfort heating equipment; excluding portable and residential wall or baseboard radiant heating units) (corresponds to the sum of survey item codes 5704-5720 on CIR Form MA35M, Refrigeration and Air-Conditioning Equipment, for 1997)*			3585C 00 1			
19	Parts for warm air furnaces (including duct; excluding complete humidifiers)			3585D 80 1			
20	Other Heating Equipment (Except electric; including parts for nonelectric heating equipment and oil burners)		Floor and wall furnaces (gas and oil) – Exclude value of oil burners shipped with furnaces; report burners on line 26		34338 20 2		
21	UNIT HEATERS	Gas-fired, 400,000 Btu/hr or less	34338 30 1				
22		Steam or hot water heating element, centrifugal fan-type (blower) and propeller fan-type	34338 32 7				
23	Gas-fired infrared heaters		34338 38 4	Number			
24	Mechanical stokers		34338 54 1				
25	Parts for floor and wall furnaces, unit heaters, gas-fired infrared heaters and mechanical stokers		34338 88 9				
26	Oil burners (except range-type)		34339 01 0				
27	Parts and attachments for oil burners		34339 85 3				
28	GAS BURNERS AND GAS CONVERSION BURNERS (Including parts)	400,000 Btu/hr or less	34339 16 8	Number			
29		400,001 Btu/hr or more	34339 18 4				
30		Parts and attachments for gas burners (sold separately)	34339 19 2				
31	Unit ventilators		34339 60 6				
32	Nonelectric prefabricated metal fireplaces for commercial and industrial use		34339 71 3	Number			
33	(Continued on next page)	Solar energy collectors (water or air)	34339 75 4				

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 (A)		Census product code 581 (B)	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
34	Other heating equipment including dual-fired gas and oil burners, heat transfer coils (blast coils), range boilers, expansion tanks (including basement tanks), tanks for direct-fired water heaters (sold separately), and other parts for heating equipment, except electric (sold separately) – <i>Specify kind</i>		34339 89 5			\$		
35	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>		18					
36			26					
37			34					
38	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					
39	MISCELLANEOUS RECEIPTS Sales of scrap and refuse		99980 13 8					
40	Other miscellaneous receipts (including receipts for repair work, etc.)		99980 98 9					
41	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					
42	TOTAL value of shipments and other receipts Sum of lines 1-41, 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			
			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

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	