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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.

**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 of 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. Toll Operations** – Tolling must be performed for customers outside your own company. If the work is done for other establishments within your company, the value of the materials consumed in the tolling operation should be reported in your cost of materials data and the processed value of the product should be reported as a product shipment and a corresponding interplant transfer.

**6. Gross Weight** – The figure reported for gross weight on lines 10 and 20 should represent the entire weight of the materials in the relevant form shown on the schedule and not the metal content of the material. Gross weight should not include tare.

**7. Lines 13-19** – Include scrap generated in other establishments of your company and transferred to this plant as well as scrap purchased from outside sources. Exclude home scrap.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

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Line No.	Materials, parts, and supplies			Census material code	Unit of measure for quantities	Consumption of purchased materials and of materials received from other establishments of your company			
						Quantity	Cost, including delivery cost (freight-in)		
							<b>(E)</b>		
	<b>(A)</b>		<b>(B)</b>	<b>(C)</b>	<b>(D)</b>	Millions	Thou-sands	Dollars	
1	<b>Shapes and Forms (Except castings, forgings, and fabricated metal products)</b>	ALUMINUM AND ALUMINUM-BASE ALLOY	Ingot	333471 1	Short tons		\$		
2			All other aluminum and aluminum-base alloy shapes and forms	330009 2					
3		COPPER AND COPPER-BASE ALLOY	Refined unalloyed copper (cathodes, ingots, cakes, slabs, etc.) and blister or anode copper	333120 4	Short tons				
4			All other copper and copper-base alloy shapes and forms	330012 6					
5			Lead and lead-base alloy	333962 9					
6			Zinc and zinc-base alloy	333978 5	Short tons				
7			Tin and tin-base alloy	333975 1					
8			Precious metal and precious metal alloy (including gold, silver, and platinum)	333904 1					
9			All other nonferrous shapes and forms	333965 2					

CONTINUE WITH ITEM 17 ON PAGE 6

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued								
Line No.	Materials, parts, and supplies  <b>(A)</b>		Census material code  <b>(B)</b>	Unit of measure for quantities  <b>(C)</b>	Consumption of purchased materials and of materials received from other establishments of your company			
					Quantity  <b>(D)</b>	Cost, including delivery cost (freight-in) <b>(E)</b>		
						Millions	Thousands	Dollars
10	METAL MINING (Ores and concentrates)	Copper ores, concentrates, and precipitates	102100 5	Gross wt short tons		\$		
11		Precious metal ores and concentrates	100005 8					
12		All other nonferrous metal ores and concentrates	100011 6					
13	SCRAP	Aluminum and aluminum-base alloy (excluding home scrap)	190020 8	Short tons				
14		Copper and copper-base alloy	190024 0					
15		Lead and lead-base alloy	190025 7					
16		Zinc and zinc-base alloy (including drosses and skimmings)	190026 5					
17		Tinplate (including shredded steel can scrap)	190027 3					
18		Precious metal and precious metal alloy	190051 3					
19		All other nonferrous metal and metal-base alloy scrap	190052 1					
20	Alumina		281951 4	Gross wt short tons				
21	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					
22	<b>TOTAL</b> Sum of lines 1–21 should equal item 10, line a					\$		

**Item 18A. TYPE OF OPERATION**

Line No.	Item <i>Mark (X) the ONE item which BEST describes the operation at this establishment.</i> <b>(A)</b>	Key	Mark (X) appropriate box <b>(B)</b>
1	Smelting or refining of copper from ore or smelter products	401	5215 <input type="checkbox"/>
2	Smelting or refining of lead from ore or smelter products	402	5231 <input type="checkbox"/>
3	Smelting or refining of zinc from ore	403	5256 <input type="checkbox"/>
4	Aluminum reduction	404	5272 <input type="checkbox"/>
5	Smelting or refining of other nonferrous metals from ore or smelter products	405	5298 <input type="checkbox"/>
6	Smelting or refining of nonferrous metal from scrap and dross	406	5314 <input type="checkbox"/>
7	Production of aluminum ingot or billet in aluminum rolling mills	407	5330 <input type="checkbox"/>
8	Other – <i>Specify</i>	408	5355 <input type="checkbox"/>

**CONTINUE WITH ITEM 18B ON PAGE 7**

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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.
- Column (D-1) - Production - Report the total quantity of each product produced. If this establishment performs both smelting and refining operations, production should be reported separately for each stage. Also, within each stage, production should be reported only in the form in which the metal passes from the smelter stage to the refined stage, or is shipped from this plant, or is consumed in this plant in the manufacture of products beyond the refined metal stage. Do not report production of intermediate stages through which the metal may be processed.
- Columns (D-2) and (E) - Products Shipped and Other Receipts - Report the quantity and value of shipments of all products made in this establishment during 1992. For value of shipments, report the net selling value, f.o.b. plant, after discounts and allowances, and exclusive of freight charges and excise taxes. Include products shipped on consignment, whether or not sold at the end of the year. Exclude shipments of materials to your toll processor. Include products made for you on a toll basis whether shipped direct from the toll processor or from this plant. Exclude shipments of products made in this establishment on a toll basis for others. Report the amount you received for "commission or toll processing" on line 27, Census product code 93000 85 9.
- 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 14 9.
- 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  (A)		Census product code  581 (B)	Unit of measure for quantities  (C)	Quantity produced for all purposes  582 (D-1)	Products shipped and other receipts			
						Quantity  583 (D-2)	Value, f.o.b. plant (E)		
							584 Millions	Thou- sands	Dollars
1	Copper (Pig, Ingot, Shot, etc.) (33412)	UNALLOYED	Cathode, wire bar, ingot and ingot bar	33412 24 8	Short tons		\$		
2				Other (including cakes, slabs, shot, etc.)					
3		Copper-base alloys		33412 31 3					
4	Copper smelter products (not of commercial grade, produced for further refining either in this plant or in other establishments, including blister or anode copper, matte, speiss, flue dust, and residues)			33311 00 2					
5	Lead (33413)	Lead, unalloyed (pig, ingots, shot, etc.)		33413 11 3	Short tons				
6		LEAD- AND TIN-BASE ALLOYS	Antimonial lead	33413 21 2					
7			Babbitt metal	33413 33 7					
8			Solder	33413 51 9					
9			Other (including type-metal)	33413 99 8					
10	Other unrefined nonferrous metals (including lead smelter products, metal bearing furnace residues, and other metal products which have to be further refined before sale to customers)			33398 01 7					
11	ZINC (33414)	Zinc (including all ASTM specification zinc), unalloyed		33414 31 9					
12		Zinc-base alloys		33414 11 1	Short tons				

CONTINUE WITH ITEM 18B ON PAGE 8

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

Line No.	Products and services  <b>(A)</b>		Census product code  <b>(B)</b>	Unit of measure for quantities  <b>(C)</b>	Quantity produced for all purposes  <b>(D-1)</b>	Products shipped and other receipts			
						Quantity  <b>(D-2)</b>	Value, f.o.b. plant <b>(E)</b>		
							584	Thou-	Dollars
						583	Millions	sands	
13	Zinc smelter products (not of commercial grade, produced for further refining either in this plant or in other establishments, including base bullion, matte, and speiss)		33391 00 4				\$		
14	PRECIOUS METALS AND PRECIOUS METAL ALLOYS <b>(33415)</b>	Gold	33415 25 8						
15		Silver	33415 35 7						
16		Platinum (including platinum-group metals)	33415 45 6						
17	OTHER SECONDARY NONFERROUS METALS <b>(33416)</b>	Magnesium and magnesium-base alloys	33416 33 0						
18		Nickel and nickel-base alloys	33416 35 5						
19		Tin, unalloyed	33416 71 0						
20		Other nonferrous metals and their alloys (cadmium, antimony, cobalt, titanium sponge, etc.) - <i>Specify metal</i>	33416 97 5						
21	Aluminum ingot (including pigs, sows, and molten metal, excluding billet)		33417 00 7	↑ Short tons ↓					
22	Aluminum extrusion ingot (billet)		33418 00 5						
23	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						
24			26						
25			34						
26			42						
27	CONTRACT WORK	Receipts for smelting and refining of materials owned by others on a toll basis. The quantity of production and shipment of these products should be included in column (D-1) on pages 7 and 8. <i>Describe on lines below.</i>	93000 85 9						
28	All other receipts for work done for others on their own materials. <i>Describe below products worked on and kind of work.</i>		93000 14 9						

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

Line No.	Products and services  <b>(A)</b>	Census product code  <b>(B)</b>	Unit of measure for quantities  <b>(C)</b>	Quantity produced for all purposes  <b>(D-1)</b>	Products shipped and other receipts			
					Quantity  <b>(D-2)</b>	Value, f.o.b. plant <b>(E)</b>		
						584	Thou-	Dollars
		581			583	Millions	sands	
29	MISCELLANEOUS RECEIPTS Sales of scrap and refuse	99980 13 8				\$		
30	Other miscellaneous receipts (including receipts for repair work, etc.)	99980 98 9						
31	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						
32	<b>TOTAL value of shipments and other receipts</b> Sum of lines 1–31, column (E)	77000 00 8				\$		

**Items 19–21 – 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> )			
<b>Period covered</b>		FROM: Month	Day	Year	TO: Month	Day	Year
666	1				2		
Signature of authorized person				Title			Date