

If not shown, please enter your 11-digit Census File Number from the address label on page 1

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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 you but used at this establishment in making products for others under contract for a 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."

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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	574 Thou- sands	574 Dollars	
1	Fabricated metal products, including forgings	340004 1	\$			
2	Castings (rough and semifinished)	330091 0				
3	<b>Shapes and Forms (Except castings, forgings, and fabricated metal products)</b> STEEL Bars and bar shapes Sheet and strip Wire and wire products All other steel shapes and forms COPPER AND COPPER-BASE ALLOY Rod, bar, and bar shapes Plate, sheet, and strip (including military cups and discs) All other copper and copper-base alloy shapes and forms ALUMINUM AND ALUMINUM-BASE ALLOY Extruded shapes (including extruded rod, bar, pipe, tube, etc.) All other (wire, rolled rod and bar, powder, welded tubing, etc.) All other nonferrous shapes and forms	331072 9				
4		331022 4				
5		331027 3				
6		331035 6				
7		335103 8				
8		335143 4				
9		335110 3				
10		335405 7				
11		335020 4				
12		335099 8				
13		Paperboard containers, boxes, and corrugated paperboard	265001 8			
14		Special dies, tools, die sets, jigs, and fixtures (except cutting tools for machine tools)	354430 1			
15	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				
16	<b>TOTAL</b> Sum of lines 1–15 should equal item 10, line a		\$			

**Item 18A. SELECTED METALWORKING AND RELATED OPERATIONS PERFORMED IN THIS ESTABLISHMENT DURING 1997**

591	3207 8
Mark (X) appropriate box	
Yes	No
592	593
1 <input type="checkbox"/>	2 <input type="checkbox"/>

**Were any of the operations listed below performed in this establishment in 1997?** . . . . .

If "Yes," indicate in column (C) by marking appropriately, which of the specified operations were performed in this establishment during 1997. Where "YES" is marked, show in column (D) the approximate number of production workers on all shifts usually engaged in the specified operation.

Line No.	Operation <b>(A)</b>	Census code	Was this operation performed in this establishment during 1997?		Number of production workers (on all shifts) usually employed when operated (estimate if necessary) <b>(D)</b>
		591 <b>(B)</b>	592 <b>(C)</b>	593	
			Yes	No	
1	Electroplating and other plating	018	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
2	Galvanizing and other hot dip coating	026	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
3	Heat treating of metals for production purposes	034	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
4	Precision turned products (on screw machines, turning centers, and CNC equipment)	042	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
5	Machine shop	059	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
6	Tool and die shop (if separate from machine shop) for jigs, fixtures, dies, and other special tooling	067	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
7	Pattern shop (foundry patterns only – metal, wood, etc.)	075	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
8	Sheet metal work, aluminum or steel	083	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
9	Stamping and blanking of metals	091	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
10	Painting, lacquering, and enameling on metals	109	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
11	Welding of steel plate for manufacturing production	117	1 <input type="checkbox"/>	2 <input type="checkbox"/>	
12	Welding repair shop	125	1 <input type="checkbox"/>	2 <input type="checkbox"/>	

**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."

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

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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
1	<b>Externally Threaded Metal Fasteners (Except aircraft types) (34524)</b>	BOLTS	Mine roof bolts	34524 11 6	\$		
2			Hex bolts (including heavy, tap-and-joint, excluding high-strength structural)	34524 12 4			
3			Other metal bolts (including square, round, plow, high-strength structural, and bent bolts)	34524 19 9			
4		SCREWS	Cap, set, machine, lag, flange, and self-locking	34524 39 7			
5			Tapping (including fillister, flat, hex, oval, and pan-and-truss; and wood, including flat, oval, and round)	34524 45 4			
6			Other externally threaded metal fasteners not mentioned above (including studs)	34524 89 2			
7	<b>Internally Threaded Metal Fasteners (Except aircraft types) (34525)</b>	NUTS	Hex (including flanges, double chamfered, washer face, flat, jam slotted, thick, castle, heavy, machine, and locking)	34525 04 8			
8			Square (including flat, washer, crowned, heavy, track, sleeve, and machine; sheet metal; weld; wing; and cage, anchor, or nut retainers)	34525 29 5			
9		Other internally threaded metal fasteners not mentioned above including flanged nuts (all types except hex) and locknuts (all types except hex)	34525 89 9				
10	<b>Nonthreaded Metal Fasteners (Except aircraft types) (34526)</b>	RIVETS	Solid	34526 09 5			
11			Tubular; split (including rivet caps) and blind	34526 15 2			
12		Washers	34526 35 0				
13		Other nonthreaded metal fasteners not mentioned above including pins (all types)	34526 79 8				
14	<b>Aircraft (Including aerospace) Fasteners Other Than Plastics (Meet specifications for flying vehicles) (34527)</b>	EXTERNALLY THREADED	Bolts	Less than 161 KSI tensile	34527 01 0		
15				161 KSI tensile or more	34527 06 9		
16		Screws, all types; and studs, all types		34527 15 0			
17		INTERNALLY THREADED	Locknuts (including flanged locknuts)		34527 45 7		
18			Other (including flanged nuts (all types excluding flanged locknuts), hex square nuts (all types), and sheet metal fasteners)		34527 59 8		
19		NONTHREADED	Washers, all types		34527 61 4		
20			Rivets, all types		34527 62 2		
21	Pins, all types		34527 63 0				
22	<b>OTHER COLD-HEADING PRODUCTS (Or warm-or hot-heading products; formed nonplastics, nonfastener parts, made on fastener machines) (34528)</b>	Automotive		34528 11 7			
23		Household appliances (including radio and television)		34528 21 6			
24		Aircraft		34528 31 5			
25		All other (including ordnance)		34528 98 4			
26	Industrial fasteners made of plastics –Specify kind and use			30893 00 2			

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>	Products shipped and other receipts		
				Value, f.o.b. plant <b>(E)</b>		
				584 Millions	Thou- sands	Dollars
27	Steel nails, staples, tacks, spikes, and brads		33152 00 0	\$		
28	Paper clips, and other products made from purchased wire – <i>Specify kind of product and type of metal</i>		34968 00 8			
29	Buttons, needles, pins, zippers, buckles, hooks, eyelets, and similar notions		39650 00 7			
30	PRECISION TURNED PRODUCTS MADE ON SCREW MACHINE TURNING CENTERS OR CNC EQUIPMENT	For automotive use	34511 00 6			
31		For other use – <i>Specify end use if known</i>	34512 00 4			
32	Bicycle parts – <i>Specify kind</i>		37511 00 3			
33	Conveyors and parts		35350 00 8			
34	Telephone switching and switchboard equipment (corresponds to the sum of item codes 0202–0236 as reported on CIR form MA36P, Communication Equipment, for 1997)		36611 00 2			
35	Pneumatic, hydraulic, and powder-actuated handtools – <i>Specify kind</i>		35462 00 1			
36	Hand and edge tools (except cutlery, scissors, shears, trimmers, snips, razors and razor blades, saws and components, and power-driven tools; report those on lines 48–55) – <i>Specify kind</i>		34230 00 3			
37	Special dies and tools, die sets, jigs, and fixtures (except cutting dies for materials other than metal; report those on line 36)		35441 00 5			
38	Cutting tools, machine tool accessories, and machinists' precision measuring devices, for machine tools and for other metalworking machinery		35450 00 6			
39	Gears (including pinions, racks, and worms: loose gears for non-automotive, non-aircraft use only; report drives, gearboxes, and gears for aircraft and motor vehicles on lines 48–55)		35660 00 0			
40	Other mechanical power transmission equipment (except antifriction bearings; report those on lines 48–55) – <i>Specify kind</i>		35680 00 8			
41	JOB STAMPINGS	Automotive	34650 00 2			
42		Other	34692 00 4			
43	Hardware, not elsewhere classified – <i>Specify kind and use</i>		34290 00 7			
44	Electroplating, plating, polishing, and anodizing (performed on metals)		34710 00 4			
45	Etching, engraving, coating, and allied services (performed on metals)		34790 00 6			
46	Heat treating of metal (heat treating, pickling, annealing, brazing, shot peening, tempering, etc.)		33980 00 4			
47	Receipts for machine shop job work and job order repairs		35995 00 0			

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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>	Products shipped and other receipts		
				Value, f.o.b. plant <b>(E)</b>		
				584 Millions	Thou- sands	Dollars
<b>48</b>	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	\$		
<b>49</b>			26			
<b>50</b>			34			
<b>51</b>			42			
<b>52</b>			59			
<b>53</b>			67			
<b>54</b>			75			
<b>55</b>			83			
<b>56</b>	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			
<b>57</b>	MISCELLANEOUS RECEIPTS	Sales of scrap and refuse	99980 13 8			
<b>58</b>		Other miscellaneous receipts (including receipts for repair work, etc.)	99980 98 9			
<b>59</b>	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			
<b>60</b>	<b>TOTAL value of shipments and other receipts</b> Sum of lines 1–59, 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	