

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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 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, column 1. The value of these products shipped by this establishment should be reported in item 18B under Census product code 9998 400 0, "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.

INFORMATION COPY
 DO NOT USE TO REPORT

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)	Pumps, motors, and hydrostatic transmissions	359412 4	\$							
2		Cylinders and rotary actuators	359301 9								
3		Filters	356921 7								
4		Hose or tube fittings and assemblies	349261 8								
5		Valves	349271 7								
6	Fabricated metal products, except forgings		340075 1								
7	FORGINGS	Iron and steel	346200 9								
8		Nonferrous	346300 7								
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							Structural shapes and sheet piling	331023 2			
14		All other	331091 9								
15		Copper and copper-base alloy	335105 3								
16		Aluminum and aluminum-base alloy	335001 4								
17		Other nonferrous	335099 8								

CONTINUE WITH ITEM 17 ON PAGE 6

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 Millions	Thousands	Dollars
18	Gasoline and other carburetor engines	351905 5	\$		
19	ELECTRIC MOTORS AND GENERATORS Fractional horsepower electric motors (less than 1 hp) (excluding timing motors)	362102 6			
20	Integral horsepower motors and generators (1 hp or more)	362120 8			
21	Electric transmission, distribution, and control equipment	360101 0			
22	Storage batteries	369101 1			
23	BEARINGS (Mounted or unmounted) Ball	356218 8			
24	Roller	356201 4			
25	Speed changers, gears, and industrial high-speed drives	356601 5			
26	Pneumatic tires and inner tubes	301101 2			
27	Rubber and plastics hose and belting	305201 6			
28	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			
29	TOTAL Sum of lines 1–28 should equal item 10, line a		\$		

Item 18A. INSTRUCTIONS AND INQUIRY FOR COMPANIES ENGAGED IN INSTALLATION (OR ERECTION) OF PRODUCTS OF THEIR OWN MANUFACTURE

It is preferable that you report the value of shipments for individual products, excluding the amounts received for installation and erection. The installation and erection receipts (if any) should be reported on line 121, item 18B. In order to evaluate the reporting for this item, please answer the following questions:

		Key		Mark (X) in appropriate boxes		
		591	5512			
1a.	Do the value of shipments figures for individual products include the cost of installation or erection of the product?	592		1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	3 <input type="checkbox"/> Don't know
b.	If "Yes," please estimate the total amount received for installation or erection.	593		1 <input type="checkbox"/> Under \$50,000	3 <input type="checkbox"/> \$500,000–\$999,999	2 <input type="checkbox"/> \$50,000–\$499,999
2.	Do the employees of this manufacturing establishment install or erect the products of your company? If "Yes," include these employees in item 2 and their wages in item 3A.	594		1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	3 <input type="checkbox"/> Don't know
3.	Does a distinct outside labor force (not attached to this manufacturing plant) erect or install the products for your establishment? If "Yes," do not include this labor force in item 2 or their wages in item 3A. Payments made by this establishment for any work done by others should be reported as a cost of contract work in item 10e. The payroll of this outside labor force should be reported by the establishment that maintains the records for them.	595		1 <input type="checkbox"/> Yes	2 <input type="checkbox"/> No	3 <input type="checkbox"/> Don't know

CONTINUE WITH ITEM 18B ON PAGE 7

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

Census File Number

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."

5. 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			Census product code	Products shipped and other receipts				
					Quantity (Number)	Value, f.o.b. plant (E)			
						584	Thou-	Dollars	
581	583	(D)	Millions	sands					
1	Elevators and Moving Stairways (35341)	ELEVATORS, EXCEPT FARM AND PORTABLE	Electric Passenger (Except Residence Lifts)	Geared	35341 05 6		\$		
2				Gearless	35341 07 2				
3			Hydraulic passenger	35341 12 2					
4			Electric freight	35341 13 0					
5			Hydraulic freight	35341 15 5					
6			Automobile lifts (service station and garage type)	35341 31 2					
7			Moving stairways, escalators, and moving walkways	35341 51 0					
8			Other nonfarm elevators (including sidewalk elevators, dumb waiters, man lifts, hand-operated freight elevators, residence lifts, etc.) (excluding portable elevators/stackers) – <i>Specify kind</i>	35341 96 5					
9		Parts for automobile lifts (service station and garage type)	35342 01 3						
10		Parts for passenger or freight elevators or escalators	35342 02 1						
11	Unit Handling Conveyors and Conveying Systems (Except Hoists and Farm Elevators) (35353)	Gravity conveyors (skate wheel and roller)		35353 09 3					
12		TROLLEY CONVEYORS (Overhead systems)	Light-to-medium-duty	35353 13 5					
13			Heavy-duty	35353 14 3					
14			Tow conveyors (underfloor systems)		35353 17 6				
15			Light-to-medium-duty unit handling powered conveyors and conveying systems, belt		35353 01 0				
16			Light-to-medium-duty unit handling powered conveyors and conveying systems, roller		35353 02 8				
17			Heavy-duty unit handling powered conveyors and conveying systems, belt		35353 03 6				
18			Heavy-duty unit handling powered conveyors and conveying systems, roller		35353 04 4				
19			Pneumatic tube conveyors		35353 35 8				
20		(Continued on next page)	Portable conveyors (except farm)		35353 37 4				

CONTINUE WITH ITEM 18B ON PAGE 8

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				
						Quantity (Number) (D)	Value, f.o.b. plant (E)			
							584 Millions	Thou- sands	Dollars	
21	Unit Handling Conveyors and Conveying Systems (Except Hoists and Farm Elevators) (35353) – Continued				35353 41 6		\$			
22	Carrouseles									
23	All other unit handling conveyors and conveying systems, belt				35353 07 7					
24	All other unit handling conveyors and conveying systems, except belt				35353 08 5					
25	Parts, attachments, and accessories for unit handling conveyors and conveying systems (sold separately) (35354)				35354 00 0					
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 specially 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. – Specify kind		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										
41	PARTS, ATTACHMENTS, AND ACCESSORIES FOR BULK MATERIAL HANDLING CONVEYORS AND CONVEYING SYSTEMS, SOLD SEPARATELY (35356)	Belt conveyor idlers		35356 11 2						
42		Belt conveyor pulleys		35356 25 2						
43		All other parts, attachments, and accessories, sold separately		35356 37 7						
44	Industrial Trucks and Tractors	FORK LIFT TRUCKS AND OTHER WORK TRUCKS FITTED WITH LIFTING OR HANDLING EQUIPMENT	Self-Propelled	Electric motor powered	Operator riding:	• Fork lift	35373 01 8			
45						• Other	35373 02 6			
46						Nonriding	35373 03 4			

CONTINUE ON WITH ITEM 18B ON PAGE 9

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

Census File Number

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

Line No.	Products and services (A)				Census product code 581 (B)	Products shipped and other receipts			
						Quantity (Number) 583 (D)	Value, f.o.b. plant (E)		
							584 Millions	Thou-sands	Dollars
45	Industrial Trucks and Tractors – Continued	FORK LIFT TRUCKS AND OTHER WORK TRUCKS FITTED WITH LIFTING OR HANDLING EQUIPMENT—Continued	Self-Propelled – Continued	Internal combustion engine or other nonelectric powered	Operator riding: • Gasoline	35373 04 2	\$		
46					• Diesel	35373 07 5			
47					• LPG (liquid petroleum gas)	35373 09 1			
48					• Other, including CNG (compressed natural gas)	35373 11 7			
49					Other than fork lift	35373 06 7			
50					Nonriding	35373 08 3			
51					Not self-propelled (hand lift, etc.)		35373 12 5		
52		WORK TRUCKS AND TRACTORS NOT FITTED WITH LIFTING OR HANDLING EQUIPMENT	Self-Propelled	Electric motor powered:					
53				• Operator riding	35373 15 8				
54				• Other	35373 16 6				
55	Internal combustion engine or other nonelectric powered:								
56	• Operator riding			35373 17 4					
57			• Other	35373 18 2					
58		Not self-propelled		35373 19 0					
59		Mobile straddle carriers and cranes			35373 21 6				
60		Portable elevators/stackers (except farm-type)			35373 25 7				
61		Palletizers and depalletizers (pallet loaders and unloaders) which can be described as industrial trucks and related equipment used on smooth surfaces in and around depots, terminals, warehouses, etc.; report conveying equipment on lines 11–41, and report palletizers and depalletizers used in packaging or bottling applications on line 113)			35373 26 5				
62	HYDRAULIC LIFT TABLES (ELECTRO-HYDRAULIC LIFT PLATFORMS)	Scissors type		35373 28 1					
63		Other types		35373 29 9					
64	Metal pallets and skids (excluding wood and metal combination)			35373 31 5					
65	Dock boards (industrial loading ramps, hinged loading ramps)			35373 32 3					
66	Air cargo containers, metal			35373 34 1					
67	Automatic stacking machines			35373 35 6					
68	Trailers and semitrailers for use with work tractors			35373 36 4					
69	Other hand carts and vehicles			35373 37 2					
70	Other related articles			35373 38 0					
71	PARTS AND ATTACHMENTS FOR INDUSTRIAL TRUCKS AND TRACTORS (35374)	Parts and attachments for industrial work trucks fitted with lifting or handling equipment			35374 12 3				
72		Parts and attachments for other vehicles			35374 13 1				
73		Parts and attachments for machinery other than vehicles			35374 14 9				

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)	Products shipped and other receipts				
				Quantity (Number) 583 (D)	Value, f.o.b. plant (E)			
					584 Millions	Thou- sands	Dollars	
72	PALLETS AND SKIDS, WOOD (24480)	Pallets, wood, except skids	24480 62 6		\$			
73		Pallet containers, wood and metal combination and wood	24480 64 2					
74		Skids, wood	24480 65 9					
75		Pallets, wood and metal combination	24480 66 7					
76	Corrugated and solid fiber pallets, pads, and partitions		26530 68 3					
77	Plastics pallets		30894 08 3					
78	STORAGE RACKS AND ACCESSORIES, METAL (25423)	Drive-in/drive-thru and gravity conveyor pallet storage racks	25423 41 9					
79		Cantilever storage racks	25423 43 5					
80		Portable stacking racks and frames	25423 45 0					
81		Stacker racks (pallet support, beams perpendicular to storage aisle)	25423 47 6					
82		Other racks (including conventional pallet racks and accessories)	25423 49 2					
83	Casters and wheels for dollies and industrial handtrucks (hardware) (sold separately)		34298 22 4					
84	WINCHES, INCLUDING WINCHES FOR MARINE USE (Excluding winches for mounting on wheel or crawler tractors)	Electric	3531W 53 5					
85		Other	3531W 55 0					
86	Hoists (35363)	HAND HOISTS	Chain	35363 01 9				
87			Ratchet lever	35363 02 7				
88			Wire rope pullers	35363 03 5				
89		CHAIN HOISTS, EXCEPT HAND	Electric (roller and link)	35363 13 4				
90			Air or other nonelectric	35363 32 4				
91		WIRE ROPE HOISTS, EXCEPT HAND	Other hoists, powered by electric motor	35363 14 2				
92			Electric (excluding mine shaft and slope wire rope hoists)	35363 16 7				
93			Air or other nonelectric (excluding mine shaft and slope wire rope hoists)	35363 34 0				
94		Other hoists, not powered by electric motor		35363 38 1				
95		Parts and attachments for hoists (sold separately)		35363 45 6				
96	ASSEMBLY MACHINES (35492)	Rotary transfer (dial or rotary, trunnion, center column)		35492 11 5				
97		In-line transfer, synchronous		35492 15 6				
98		In-line transfer, nonsynchronous		35492 17 2				
99		Special purpose and other types		35492 13 1				
100		Parts and attachments for assembly machines (sold separately)		35492 18 0				
101	Industrial robots, parts, and attachments		35699 09 9					
102	Specific purpose industrial controls (corresponds to the sum of survey item codes 6101-6355 as reported on CIR Form MA36A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls, for 1997) (36252)*		36252 00 5					

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

Census File Number

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)	Products shipped and other receipts			
				Quantity (Number) 583 (D)	Value, f.o.b. plant (E)		
					584 Millions	Thou- sands	Dollars
103	Personnel aerial work platforms (corresponds to the sum of survey item codes 9131-9137 as reported on CIR Form MA35D, Construction Machinery, for 1997)*		3531W 30 3		\$		
104	Underground mining machinery (except parts sold separately)(corresponds to the sum of survey item codes 1085-1185 as reported on CIR Form MA35F, Mining Machinery and Mineral Processing Equipment, for 1997) (35325)*		35325 00 0				
105	Mineral processing and beneficiation equipment		35326 00 8				
106	Crushing, pulverizing, and screening machinery (except parts sold separately)(exclude portable crushing, screening, washing, and combination plants)(corresponds to the sum of survey item codes 2415-2490 as reported on CIR Form MA35F, Mining Machinery and Mineral Processing Equipment, for 1997) (35327)*		35327 00 6				
107	Drills and other mining machinery, not elsewhere classified (except parts sold separately) (corresponds to the sum of survey item codes 4004-4075 as reported on CIR Form MA35F, Mining Machinery and Mineral Processing Equipment, for 1997) (35328)*		35328 00 4				
108	PARTS AND ATTACHMENTS FOR MINING MACHINERY AND EQUIPMENT, EXCEPT DRILL BITS	For underground mining vehicles	35329 61 4				
109		For minerals crushing, grinding, sorting, separating, or washing machines	35329 63 0				
110		For lifting, handling, loading, or unloading machinery for underground mines	35329 65 5				
111		For boring or sinking machinery other than coal or rock cutters and funneling machinery	35329 67 1				
112		For other mining machinery, not elsewhere classified	35329 69 7				
113	Packaging and bottling machinery – <i>Specify kind</i>		35651 00 9				
114	SEWAGE TREATMENT EQUIPMENT	Distilling or rectifying equipment	35892 85 0				
115		Filtering or purifying apparatus	35892 87 6				
116		Centrifuges	35892 88 4				
117		Other sewerage treatment equipment	35892 89 2				
118	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.</i>	18				
119			26				
120			34				
121	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				
122	MISCELLANEOUS RECEIPTS	Sales of scrap and refuse	99980 13 8				
123		Receipts for repair work	99980 61 7				
124		Receipts for installation (or construction) of products of this establishment	99980 31 0				
125		Other miscellaneous receipts	99980 98 9				

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			
				Quantity (Number) (D)	Value, f.o.b. plant (E)		
					584 Millions	Thou- sands	Dollars
126	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				
127	TOTAL value of shipments and other receipts Sum of lines 1–126, column (E)		77000 00 8			\$	

Item 19. SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT

INSTRUCTIONS

- Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment.
- Purchases or receipts of the items specified below should be reported only in item 17.
- Materials used to produce the items specified below should be reported in item 17.
- Quantities produced for sale as such and not for incorporation in other products should be reported in item 18B.
- 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	
			592 Yes	No		593 (E)	
			1	Ferrous foundries		1001 7	1 <input type="checkbox"/>
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	