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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

		Census material	Consumption of purchased materials and of materials received from other establishments of your company			
			code	Cost, inclu- cost (fi		
Line No.					(E)	
<u> </u>		(A)	(B)		Thou- sands	। । Dollars
1	Gasoline engine same establishn	s and parts specially designed for gasoline engines, not produced in nent	371401 1	\$	 	
2	Diesel engines a	and parts specially designed for diesel engines	351902 2		 	
3	Drive train comp	ponents and parts	371465 6		 	
4	Car bodies		371110 8		 	
5		mpressors, compressor units, condensing units, fin coils, and other r-conditioning, and heat transfer equipment	358501 5		 	
6	Shocks, struts, a	and other suspension equipment and parts	371402 9		 	
7	Exhaust system	s and parts, including mufflers, pipes, and catalytic converters	371451 6		 	
8	Machine tool ac	cessories, including cutting tools	354500 1		 	
9	FLUID POWER PRODUCTS (Hydraulic and	Hydraulic and pneumatic fluid power pumps, motors, and hydrostatic transmissions	359412 4		 	
10	pneumatic)	Valves	349271 7		 	
11		Cylinders and rotary actuators	359301 9		 	
12		349261 8		 		
13		Filters	356921 7		 	
14		Other fluid power products except pumps, compressors, valves, cylinders, rotary actuators, hose or tube fittings and assemblies, and filters	190089 3		 	

CONTINUE WITH ITEM 17 ON PAGE 6

Form MC-3701 Page 6

It	tem 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued									
e 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)						
Line		(A)	(B)	574 Millions	Thou- Thou- sands Dollars					
15	FABRICATED METAL PRODUCTS	Automotive stampings, including body parts, etc.	346501 0	\$						
16	(Except forgings)	Steel springs, except wire (including leaf, helical, and torsion bar)	349301 2							
17		Motor vehicle metal hardware (lock units, door and window handles, hinges, license plate brackets, panel knobs, etc.)	342961 0							
18		Bolts, nuts, screws, rivets, washers, and screw machine products	345001 2		 					
19		Other fabricated metal products	340071 0		1 1					
20	Forgings		346000 3							
21	Castings (rough	and semi-finished)	330091 0							
22	Metal shapes ar including nonfe	nd forms, except castings, forgings, and fabricated metal products, rrous	330090 2							
23	Bearings, ball a	nd roller (mounted and unmounted)	356200 6							
24	Pneumatic tires	and inner tubes	301101 2							
25	Rubber and plas	stics hose and belting	305201 6							
26	Fabricated rubb	er products, except tires, tubes, hose, belting, and gaskets	306902 8		i i					
27	Gaskets, packing	g and sealing devices	305302 2							
28	Fabricated plast gaskets, hose, a	ics products, including components, housings, accessories, etc. (except nd belting)	308025 6		I I					
29	Glass and glass	products, including windows and mirrors	320102 7		1 1					
30	Seats (purchase	d separately) for automobiles, trucks, or buses	253121 8							
31	Seat covers, sea	t belts, and shoulder harnesses	239901 2							
32	Automotive air	pag assemblies and parts thereof	371491 2							
33	Automotive trim	nmings, textile (panels, headliners, etc.)	239621 6		i i					
34	Carpetings		227002 3							
35	Ceramic and cer	ramic composite parts, components, and accessories	320601 8		1 1					
36	Glues and adhe	sives	289101 8		i					
37	Paints, varnishe	s, lacquers, stains, shellacs, japans, enamels, and allied products	285101 2							
38	Engine electrica		369401 5							
39	Motor vehicle li fixtures; except	ghting fixtures (including headlights, taillights, running lights, and dome automotive lamps)	364701 3							
40	Automotive lam	ps (bulbs and sealed beams)	364102 4							
41	Storage batterie	s, automotive	369104 5							
42	Automotive rad	os and loudspeakers	365101 5							
43	Purchased comp	outers for incorporation into motor vehicles, trucks, or buses	357104 9							
44	Semiconductors	and related devices and electronic control modules	367013 0		 					

CONTINUE WITH ITEM 17 ON PAGE 7

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Census File Number

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 - Continued

	Materials, parts, and supplies (A) Motor vehicle clusters, meters, and gauges, except electrical (including speedometers, fuel level, oil pressure, etc.) not produced in same establishment Cost of all other materials and components, parts, containers, and supplies consumed	Census material code 571 (B) 382441 4 970099 8	Cost, included cost (fr	d material material from of ents of ents of ents of ents of eight-ing death of the eight-ing the eig	erials als ther f your elivery n)
47	TOTAL Sum of lines 1–46 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.

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.

			Census	Products shipped and other receipts		
	o Z	Products and services	product code		.o.b. plan (E)	nt
:	rine	(A)	581 (B)	584 Millions	Thou- Sands Do	ollars
	PASSENGER CARS, KNOCKDOWN OR ASSEMBLED;	Complete vehicles, knockdown or assembled, produced on passenger car chassis. REPORT MINIVANS AND SPORT UTILITY VEHICLES ON LINE 13 REGARDLESS OF CHASSIS TYPE. For vehicles to be assembled abroad, report the value on same basis as for domestic interplant shipments of knockdown vehicles (include in the value of				
	1 CHASSIS FOR SALE SEPARATELY; AND 2 PASSENGER	shipments the extra equipment billed with all vehicles). Chassis for sale separately (including those intended for interplant transfer)	37111 11 9 37111 51 5	\$		
	CAR BODIES (37111)	Passenger car bodies	37111 71 3			
	4	Kit cars	37111 81 2			

CONTINUE WITH ITEM 18B ON PAGE 8

It	Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued									
Jo.			Census	Products shipped and other receipts						
Line No		*Item co	product code	Value, f.o.b. plant (E) 584 Thou-						
		I	(A)	(B)	Millions	sands				
_	BUSES, INCLUDING MILITARY, (Except trolley) AND FIREFIGHTING	Ducce including	military (avaant trallay bysas)	37113 04 0	.					
Э	VEHICLES (Chassis of own	Buses, including	g military (except trolley buses)	37113 04 0	\$					
6	manufacture) (37113)	Firefighting veh		37113 03 2		 				
7	COMBAT AND WHEELED TACTICAL	tanks on line 16	ry vehicles, except tanks and full-tracked vehicles (Report and full-tracked vehicles on line 18)	37114 01 4		 				
8	VEHICLES OR CARRIERS (37114)	Non- armored; (chassis of	Motor vehicles	37114 03 0		 				
9	(67114)	own manufacture)	Trucks (14,000 lbs or less gvw)	37114 05 5		 				
10			Trucks (14,000–33,000 lbs gvw)	37114 07 1						
11			Trucks (33,001 lbs or more gvw)	37114 09 7		 				
12	TRUCKS,		ehicles built on purchased chassis or less, including minivans and sport utility vehicles	37114 11 3		 				
13	TRUCK TRACTORS, TRUCK AND	(37116)	or ress, merading minivaris and sport dumy verifices	37116 00 1		 				
14	BUS CHASSIS (Chassis of own manufacture)	14,001 to 33,000) pounds (37115)	37115 00 3						
15		33,001 pounds (or more (37119)	37119 00 5		 				
16	Tanks and parts	S		37950 01 1		 				
17	Self propelled v	veapons and part	is	37950 51 6		 	i I			
18			es and parts, including armored utility vehicles	37950 98 7		 				
	Complete venic	les produced on	purchased chassis – <i>Specify type</i>		!	 				
19		T		37132 00 8						
20	GASOLINE ENGINES AND	Gasoline engin water pumps, a	es, new (with or without cylinder heads, fuel pumps, and other standard accessories)	37142 01 5		 				
21	GASOLINE ENGINE PARTS FOR	Intake manifold	ls	37142 06 4		 				
22	MOTOR VEHICLES, NEW (37142)	Exhaust manifo	olds	37142 07 2		 				
23		Fuel injection s	ystems (multipoint)	37142 18 9		ı 				
24		Flywheels and	flexplates	37142 17 1						
25		Timing gears, s	prockets, and chains	37142 22 1						
26		Engine cooling Other parts and	fans (including hubs and clutches)	37142 34 6		 				
27		accessories for gasoline	37142 00 7							
28		engines – Specify kind and principal	37142 00 7							
29		products and their value on lines 27–30	37142 00 7							
30		and report the residual on line 31		37142 00 7		 				
31			engines for automobiles, highway trucks, and	37142 00 7						
32	buses (correspo	onds to the sum of	of item codes 9410–9425 as reported on CIR Form gines, for 1997) (35194) *	35194 00 0		 				
			CONTINUE WITH ITEM 18B ON PAGE 9							

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Census File Number

Item 12R	PRODUCTS AND	SERVICES OF THIS	S ESTABLISHMENT DURING	3 1997 – Continued

	TEITI IOD. FRUL	AND SE	RVICES OF THIS ESTABLISHMENT DURING 1997 –	T										
			Conque	Products shipped and other receipts										
No.		*Item cor	Census product code	Value, f	.o.b. pl (E)	ant								
Line No.				581	584	Thou-								
	Parts and		(A)	(B)	Millions	sands	Dollars							
33	Accessories for Internal	Crankshafts, en	gine	35199 08 2	\$	 								
34	Combustion Engines (Except	Camshafts, eng	ine	35199 09 0		[
35	aircraft and gasoline	Flywheels	I	35199 21 5		 								
36	automotive engines and gas turbines)	ENGINE BEARINGS (Halves)	Main (crankshaft)	35199 24 9		 								
37	(35199)	(Harves)	Connecting rods	35199 25 6										
38			Other (camshaft, balance shaft, etc.)	35199 33 0		 								
39		Engine oil pum	ps	35199 27 2		 								
40		Engine blocks		35199 35 5		 								
41		Cylinder liners	(sleeves)	35199 39 7		 								
42		Cylinder heads		35199 49 6		 								
43		Intake manifold	s and exhaust manifolds	35199 63 7		 								
44		Valve guides, s	eats, and tappets	35199 67 8		 								
45		Rocker arms an	d parts	35199 71 0		 								
46	5	Fuel injection s	ystems (multipoint)	35199 75 1		[[
47		Super-chargers	(Including turbochargers)	35199 91 8		 								
		Other parts and	accessories – Specify kind] 	l I							
48				25100.00.0		[[
40	Drive Train	TRANS-	Car and light truck:	35199 00 9		<u> </u> 								
49	Components, New	MISSIONS (Except	•Manual	37146 03 2		! [
50	(Except wheels and	auxiliary and parts)	Automatic	37146 05 7		 								
	brakes) (37146)		Heavy truck and bus type:			1								
51	-		•Manual	37146 13 1		i I								
52			•Automatic	37146 15 6		 								
53			Parts for manual transmissions	37146 23 0		[[[
54			Parts for automatic transmissions	37146 25 5		 								
55		Transaxles	insaxles			I I								
56	OTHER MOTOR VEHICLE PARTS AND					[[
57	ACCESSORIES Specify					1 								
58	principal products and their values on			37149 00 2		 								
59	lines 56–60 and report the residual on			37149 00 2		 								
60	line 61			37149 00 2		 								
61			→	37149 00 2		[[
62	Automotive job	stampings (truck	c, bus, and passenger car) (34650)	34650 00 2		 								
			CONTINUE WITH ITEM 18B ON PAGE 10											
					CONTINUE THAT TO SET AGE TO									

Form MC-3701 Page 10

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued Products shipped and other receipts Products and services Census *Item corresponds to products reported on Current Industrial Reports Value, f.o.b. plant product S. code (E) Line 581 584 Millions sands Dollars (A) (B) Construction-type scrapers, graders, rollers, and off-highway trucks, coal haulers, trailers, wagons and rough terrain forklifts (excluding parts) (corresponds to the sum of item codes 8601–8690 as reported on CIR Form MA35D, Construction Machinery \$ 63 Shipments, for 1997)* 35310 00 2 Special Dies and Tools, Die Sets, Jigs, JIGS AND FIXTURES, ALL TYPES Gauging and Checking Less than 1,000 pounds weight 35441 13 8 Types and Fixtures 35441 15 3 65 1,000 pounds weight or more All Other Jigs and Fixtures Workholding fixtures; less than 66 35441 16 1 1,000 lbs weight (Holding, Other than workholding fixtures; less than 1,000 lbs weight positioning, 35441 14 6 67 İayout, assembly, etc.) 68 35441 18 7 1,000 pounds weight or more Standard catalog components and parts for jigs and fixtures (including drill bushings) 69 35441 19 5 DIES METAL-WORKING ONLY 70 Press brake dies 35441 21 1 Forming and **Drawing Dies** 71 500 pounds weight or less 35441 22 9 72 35441 24 5 501 to 3,000 pounds weight 35441 26 0 73 More than 3,000 pounds weight Stamping Dies Progressive-type dies: (Including lamination and •High-speed steel 35441 27 8 blanking dies) 75 Carbide 35441 28 6 76 Other 35441 25 2 All other stamping-type dies (punch, 35441 23 7 77 trim, notch, pierce, perforate, etc.) Describe and report separately each product with a sales value of ALL OTHER PRODUCTS MADE IN THIS ESTABLISH-\$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. 18 **MFNT** 78 26 79 34 80 42 81 59 82 67 83 CONTRACT WORK 93000 00 8 Receipts for work done for others on their own materials Describe below products worked on and kind of work. MISCELLA-Sales of scrap, refuse, and other miscellaneous receipts (including receipts for repair work, etc.) 85 RECEIPTS 99980 00 5 RESALES Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such items 86 99989 00 6 should be reported in item 10, line b. **TOTAL** value of shipments and other receipts Sum of lines 1–86 column (E) 77000 00 8 87 **CONTINUE WITH ITEM 19 ON PAGE 11**

Form MC-3701 Page 11

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Census File Number

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.		Census code	Was this operation performed at this establishment during 1997? (C) Yes No		Unit of measure for quantities	Quantities produced in this establishment and used in manufacturing other products made in this establishment	
		(A)		162	INO	Short	(=)
1	Ferrous foundrie	es	1001 7	1	2	tons	
2	NONFERROUS FOUNDRIES	Aluminum	1002 5	1 🗆	2	1	
3	(Except die-casting)	Copper	1003 3	1	2		
4		Zinc	1004 1	1	2	Thousand pounds	
5		Other	1005 8	1 🗆	2		
6	Nonferrous die-	1006 6	1 🗆	2			
7	Precision turned centers, and CN	1007 4	1	2			

CONTINUE WITH ITEM 20 ON PAGE 12

Item 20. SUPPLEMENTAL INQUIRY ON DISTRIBUTION OF SHIPMENTS BY END USE

INSTRUCTIONS

1. General -

- Report shipments on distribution by end use of products listed below.
- Do not report products imported for resale, purchased for resale, or received from other plants of your company for resale. The value of such purchased products should be reported under "Resales" on line 79 of item 18B.
- If your book records do not contain information as requested, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. Special Instructions -

Column (E) – Total Value of Product Shipments:

- Post data from Column (E) of Item 18B for appropriate product lines listed below.
- Before posting, see references in product class descriptions below showing corresponding product lines in Item 18B. For example, Line 1, "Gasoline engines and gasoline engine parts for motor vehicles, new" corresponds to lines 20–31 in Item 18B.
- The data reported in Column (E) should equal the sum of data reported in columns (G), (H), and (I). If not, please explain in the "Remarks" section below.

Column (G) – Value of Shipments for Domestic Replacement:

 Report value of shipments of products listed below for domestic (U.S.) replacement.

- Include replacement (service) products shipped to motor vehicle manufactures, transfers to other plants of your company, direct shipments to distributors, dealers, jobbers, wholesalers, fleet operators, governments, etc.
- Exclude replacement shipments outside the U.S. (include such shipments in Column (I), Shipments for Exports).

Column (H) – Shipments for Use in Domestic Original Equipment Manufacturing (O.E.M.):

- Report value of shipments of products listed below to U.S. motor vehicle manufacturers and their suppliers for use in original equipment (O.E.M) produced in the U.S.
- Include original equipment products transferred to other plants of your company for incorporation or assembly in automobiles, trucks, and buses.
- Include shipments to depots and warehouses of the same company where such shipments are for subsequent use in original equipment.
- Exclude shipments for use in O.E.M. to be produced outside the U.S. (include such shipments in Column (I), Shipments for Exports).

Column (I) – Shipments for Export:

- Report Value of Shipments of Exports of Products listed below:
- Report value of shipments for export regardless of whether products are shipped as replacement products or for original equipment manufacturing.

	Products and service Census code		Total shipments (including interplant transfers)	Shipments for domestic replacement (including shipments to U.S. motor vehicle manufacturers for resale)	Shipments to U.S. motor vehicle manufacturers of their suppliers for use in domestic original equipment	Shipments for export (including transfers to other divisions for export)
:	o Z		Value (E)	Value (G)	Value (H)	Value (I)
:	(A)	591 (B-1)	594 Thou- Millions sands	595 Thou-	596 Thou- Millions sands	597 Thou-
	Gasoline engines and gasoline engine parts for motor vehicles, new (corresponds to lines 20–31, item 18B)	037142 7	\$	\$	\$	\$
	Drive train components, new (except wheels and brakes) (corresponds to lines 49–55, item 18B)	037146 8	 	 	 	
;	All other motor vehicle parts and accessories, new, n.e.c. (corresponds to lines 56–61, item 18B)	037149 2	 	 	 	

Item 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 t	Number	Extension							
667 1			-	Telephone	2				
Name of compan	у	Ad	Address (Number and street, city, State, ZIP Code)						
	FROM: Month	Day	Year	TO: Mo	nth	Day	Year		
Period covered	666 1	1	1	2		1	l I		
Signature of authorized person Title							Date		