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 Isted 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 970000 8 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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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 AFT 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.

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 use the establishment in making products for others but use the establishment in making products for others under contract or on commission single for others and included.

4. Cost for products by the article or on transferred from other establishments of your company and sold from other establishments of your company and sold from the establishment in tem 10, line b, not in tem 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."

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.

Line No.		Ma	Census material code	Consumption of purchased materials and of materials received from other establishments of your company Cost, including delivery cost (freight-in) (E)			
ڌ:			(A)	(B)	574 Millions	Thou- sands Dollars	
1		Pumps, motors,	359412 4	\$			
2	(Hydraulic and pneumatic)	Cylinders and ro	ary actuators	359301 9			
3	3	Filters		356921 7			
4		Hose or tube fittings and assemblies					
5	3	Valves	349271 7		l I		
6			vs, washers, rivets, and screw machine products	345001 2			
7	PRODUCTS (Except forgings)	Metal stampings		346901 2			
8	;	All other fabricate	ed metal products	340067 8		 	
9	FORGINGS	Iron and steel for	gings	346200 9			
10		Nonferrous forgi	ngs	346300 7			
11	CASTINGS (Rough and semifinished)	Iron and steel		332001 7			
12	1	Aluminum and al	uminum-base alloy	336005 4			
13	3	Other nonferrous		336003 9			
14	Shapes and Forms	STEEL	Bars, bar shapes, and plates	331007 5			
15	(Except castings, forgings, and		Sheet and strip	331022 4			
	fabricated metal products)		Structural shapes and sheet piling	331023 2			
17			All other	331091 9			
18	8	Nonferrous		336002 1		 	

CONTINUE WITH ITEM 17 ON PAGE 6

Form MC-3502 Page 6

It	Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued										
Line No.		Materials, parts, and supplies Censu materi code (A)									
19	Metal powders		339915 1	\$	sands Dollars						
	ENGINES	Discal and associational									
20		Diesel and semidiesel	351920 4								
21		Gasoline and other carburetor	351905 5								
22	Engine electrical	equipment (spark plugs, magnetos, generators, starters, etc.)	369401 5								
23	Electric motors a	nd generators	362100 0								
24	BEARINGS (Mounted or unmounted)	Mounted or Ball									
25		Roller	356201 4								
26	Speed changers,	gears, and industrial high-speed drives	356601 5								
27	Tires and inner tu	ibes	301100 4								
28	Rubber and plast	ics hose and belting	305201 6								
29	Fabricated plastic	es products (except gaskets)	308006 6								
30	Paints, varnishes	, lacquers, stains, shellacs, japans, enamels, and allied products	285101 2								
31	Cabs purchased	for installation on farm machinery	352390 9								
32	supplies consun	materials and components, parts, containers, and ned	970099 8								
33	TOTAL Sum of lin	es 1–32 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.

The Current Industrial Reports related to this report are as follows:

- a. MA35A, Farm Machinery and Lawn and Garden Equipment
- b. MA35D, Construction Machinery
- c. MA35L, Internal Combustion Engines
- d. MA35N, Fluid Power Products, Including Aerospace
- e. MA35P, Pumps (Except Hydraulic) and Compressors
- f. MA36L, Electric Lighting Fixtures

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Census File Number

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

Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued											
٥.	Products and services *Item corresponds to products reported			Census product		Corresponds to the sum of products reported for 1997 on –		Products shipped other receipt		d and s f.o.b. plant	
Line No.	on Curr	ent Industrial Rep	oorts	code				Quantity (Number)	(E)		ant
Line			581	CIR f		Item codes	583	584	Thou-	- 1	
		(A)		(B-1)	(B-	2)	(B-3)	(D)	Millions	sands	Dollars
1	WHEEL TRACTORS (Sold with or without attachments) (Excluding parts) Farm-type (power take off hp) (2- and 4-wheel drive) (exclude contractors' off-highway wheel tractors, garden tractors, turf tractors, and motor tillers)* (Report attachments sold separately in product codes 35232 00 - 35236 00, 3523C 00, and 3523E 00, and parts sold separately in product code 35239 26.)		35231 00 0	MAS	35A	6101–6187		\$			
2		Nonfarm-type (contractors' off-highway) (2- and 4-wheel drive) (for use on natural terrain) (including towing units, loaders, and bare wheel tractors), rubber-tired dozers, and self-propelled wheeled log skidders* (Report attachments sold separately in product code 35310 00 and parts sold separately in product code 35319 45 on lines 12 and 16, respectively.)		35315 00 1	MA35D		1140–2000				
3	Farm convoyers	stackers, and half	o throwers	35232 71 9							1
4	Farm conveyors, stackers, and bale throwers Farm dairy machines and equipment, sprayers and dusters (except aerial types), farm elevators, and farm blowers and attachments (35232)* Planting, seeding, and fertilizing machinery and attachments (35233)* Harvesting machinery and attachments (35235)*		35232 00 8	1		6204–6216 6219–6265 6270–6275				 	
5			achinery and	35233 00 6			6321–6384			1	
6			35235 00 1	1 MA35A		6511–6583					
7	Haying machiner	laying machinery and attachments (35236)*		35236 00 9			6613–6683			 	
8	Plows, including plowshares (primary tillage equipment), and harrows, rollers, pulverizers, and similar equipment; and cultivators and weeders (secondary tillage equipment) and attachments (3523C)*		3523C 00 6			6441–6463 6715–6731 6770–6795			 		
9	Hand clippers for	animals		3523E 80 3						 	
10	Metal stalls and o	corrals		3523E 84 5						 	
11	All other farm machinery and equipment (excluding parts), including stalk shredders and cutters or rotary mowers; feed grinders and crushers; poultry, hog, and barnyard equipment; farm wagons; self-propelled irrigation systems; etc., except commercial turf equipment (3523E)*			3523E 00 1	MAG	35A	6811-6824 6831-6845 6851-6857 6860-6861 6870-6875 6880-6887 6891-6895			 	
12	Construction machinery for mounting on nonfarm tractors and other prime movers (excluding parts and snow clearing attachments)*		35310 00 2	MAS	35D	9121–9124 9206–9444				 	
13	oopa.a.o.,	PARTS FOR FARM MACHINERY (Except operator cabs)	Parts for wheel tractors (farm-type)	35239 26 8						 	
14	(35239)		Parts (except for wheel tractors)	35239 31 8						 	
15		Operator cabs fo equipment*	r farm	35239 53 2							
16	crawler tractors, a separately)	ors' off-highway wand tractor shovel	loaders (sold	35319 45 8							
17	Commercial turf a (including parts a	and grounds care and attachments) (equipment 3523F)*	3523F 00 9	MA3	85A	8101–8118 8123–8143			 	
									CONTINU	E ON P	AGE 8

I1	Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued											
No.	Products and services *Item corresponds to products reported on Current Industrial Reports (A)			Census product code Corresponds to the sum of products reported for 1997 on –		Products shipped and other receipts Quantity Value, f.o.b. plant						
Line				581	CIR form	Item codes	(Number)	584	(E) Thou-			
		(A)		(B-1)	(B-2)	(B-3)	(D)	Millions	sands	Dollars		
	Nonpowered law Consumer nonric	ling lawn, garden,	and snow	35241 01 7 35241 00 9	A			\$	 			
	equipment (3524) Consumer riding	nt (35241)* er riding lawn, garden, and snow			MAREA	8202–8265			<u>i</u> I			
20	equipment (3524	44)*	35244 00 3	MA35A	8270–8285 8267–8268			<u> </u>				
21	garden, and snow	attachments for consumer lawn, nd snow equipment (35246)*			↓	8311–8335			 	1		
22	Gray iron casting			33219 98 1					 			
23	fans, and heaters		num)	34443 14 3					 			
24	PREFAB- RICATED METAL BUILDINGS	Grain storage bu (including farm- a commercial-type	and s)	34482 14 1					 			
25	(Steel and aluminum)	Other farm service buildings (livestock shelters, machinery storage, etc.) (excluding wood frame buildings)		34482 15 8					 	 		
26	passenger car)	tampings (truck, b		34650 00 2					 			
27	Gasoline and gas aircraft, automob and outboard ma	s-gasoline engines ile, highway truck, rine) (35191)*	s (except bus, tank,	35191 00 6	MA35L	9101–9207			 			
28	Diesel, semidiese (except automobitank) (35193)*	el, and dual-fuel en ile, highway truck,	ngines bus, and	35193 00 2	WASSE	9331–9353			 			
29	Parts and Accessories for Internal Combustion Engines (Except	Connecting rods Crankshafts, engine Camshafts, engine		35199 01 7					1			
30				35199 08 2								
31	aircraft and gasoline			35199 09 0					 			
32	automotive engines and gas turbines)	Flywheels		35199 21 5					 			
33	(35199)	ENGINE BEARINGS	Main (crankshaft)	35199 24 9					 			
34		(halves)	Connecting rod	35199 25 6					i !			
35			Other (camshaft, balance shaft, etc.)	35199 33 0					 			
36		ENGINE PUMPS, NEW	Oil	35199 27 2					 			
37			Fuel	35199 31 4					 			
38			Water	35199 32 2					 			
39		Engine blocks		35199 35 5					 			
40		Cylinder liners (s	leeves)	35199 39 7					[[
41		Cylinder heads		35199 49 6					[
42		manifolds	Intake manifolds and exhaust manifolds						 			
43		Valve guides, se tappets	ats, and	35199 67 8					I I			
44		Rocker arms and	·	35199 71 0					 			
45		Fuel injection sys (multipoint)	stems	35199 75 1					 			
46		Governors, engir	ne speed	35199 83 5					[[
47		Radiators, station		35199 87 6					[
48		Superchargers, i turbochargers	ncluding	35199 91 8					 			
49		Other parts and	accessories	35199 99 1				CONTINUE	[[

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Census File Number

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

	Products and services *Item corresponds to products reported				Census Census 1997 on –			ucts shipped other receipt			
Line No.	*Item co	orresponds Current Ind	to products dustrial Rep	reported orts	product code	19	197 011 –	Quantity	Value, f.o.b. plant		
ine				581	CIR form	Item codes	(Number)	584	(E)		
	(A)			(B-1)	(B-2)	(B-3)	(D)	Millions	Thou- sands		
	and continu	raders, rolle lous ditchers parts)(3531	and treache	rain forklifts, ers						 	
50	(Report atta code 35310	achments so 00 on line	ld separatel 12)	y in product	35316 00 9	MA35D	8601–8616 8636–9118		\$		
51	Log splitters	3			35318 27 8					! 	
52	Vertical eart (excluding w	h augers and vater well and	d power post d blast hole d	hole diggers rills)	35318 47 6					 	
53	tractors or t	ing attachme rucks, includ le blades an cept rotary s	ding V-shape d wings, and	ed snow d snow	35318 23 7					 	
54	Electric Power-	Drills – elec	ctric, power	driven	35465 10 3					1	
	driven Hand- tools	SAWS- JIG AND	Armature r	mounted on gs	35465 11 1						
56	(Exclud-	SABER		mounted on ball bearings	35465 13 7					 	
57	powered) and Parts	Reciprocat	ing saws		35465 14 5						
58		grinders		unners	35465 22 8					 	
59				and rotary,	35465 21 0					 	
60				Less than 7 inch wheel drive	35465 24 4					 	
61				7 inch wheel drive or more	35465 27 7					 	
62		Shears and	d nibblers		35465 28 5					I I	
		Other electric power-driven handtools – <i>Specify kind</i>								 	
63					35465 39 2					1	
64		Parts, attachments, and accessories for electric-powered handtools (except battery-powered) (sold separately) (excluding saw blades, drill bits, router bits, screwdrivers, motors, and switches)			35465 39 2					 	
65	Internal con	nbustion end	gine driven c	hain saws	35463 01 7					1	
66	Internal combustion engine driven chain saws Industrial pumps (except hydraulic fluid power pumps, automotive circulating pumps, and measuring and dispensing pumps) (35612)* (Include the value of the driver if shipped as a complete unit.)				35612 00 1	MA35P	1098–1298				
67	Fluid power	cylinders ar	nd relatede i	tems*	35930 00 7		4501–4847			I I	
	Fluid power	pumps, mo	tors, and hydrs (including	drostatic the value	35940 00 6	MA35N	5504–5589			 	
	Parts and a	ttachments the hydrostatic	for fluid pow	er pumps.	35949 00 7		5591–5597			 	
		r machine sh	nop job work	and job	35995 00 0					1	
		nting equipm	nent (includir	ng parts and	36485 00 1	MA36L	2510–2587			 	
	Bicycles co	mplete; whe	els of all dia	ad,	37511 48 2	302	2010 2001			 	
			71	<u>, </u>	FINITE WITH	ITEM 100 /	ON PAGE 10			•	

CONTINUE WITH ITEM 18B ON PAGE 10

lt	Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued											
	Products and services		Census	of produc	nds to the sum	Products shipped and other receipts						
Line No.	*Item co	rresponds to products reported Current Industrial Reports	product code	1997 on –		Quantity (Number)	Value, f.o.b. plant (E)					
		(A)	581 (B-1)	CIR form (B-2)	Item codes (B-3)	583 (D)	EOA	Thou-	l Dollars			
	Other cycles	, including unicycles	(5-1)	(B-2)	(B-3)	(D)	IVIIIIONS	sanus	Dollars			
	and adult tric	cycles – <i>Špecifý kind</i>						! 				
73			37511 09 4				\$		i			
74	(including bo	or travel and camping trailers dies and chassis); pickup I caps (excluding appliances gs)	37922 68 9					 	 			
	ALL OTHER PRODUCTS MADE IN THIS ESTAB- LISHMENT	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.						 	 			
75			18					[
			26					 	l			
76			34					 				
77			42					<u> </u> 	 			
78			59					 	 			
79			67					 				
80								 				
81	CONTRACT WORK	Receipts for work done for others on their own materials	93000 00 8					 				
	Describe below products worked on and kind of work.						 	 				
82	MISCELLA- NEOUS	Sales of scrap and refuse	99980 13 8					 				
83	RECEIPTS	Receipts for research and developmental work	99980 41 9					 				
84		Other miscellaneous receipts (including receipts for repair work, etc.)	99980 98 9					 				
85	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					 				
86	other	L value of shipments and receipts of lines 1–85, column (E)	77000 00 8				\$	 				

CONTINUE WITH ITEM 19 ON PAGE 11

Item 22. CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions. Name of person to contact regarding this report (Print or type) Area code Number Extension Telephone 2 Name of company Address (Number and street, city, State, ZIP Code) FROM: Month Day Year TO: Month Day Year Period covered 666 1 2 Signature of authorized person Title Date