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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.

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

a. MATERIALS OWNED BY THIS ESTABLISHMENT AND PROCESSED ON A CONTRACT BASIS BY ANOTHER ESTABLISHMENT – If you used materials which were processed for you on a contract basis at other locations, do not include any data for such processing in this report (specifically items 10, 17, and 18B).

b. MATERIALS RECEIVED FROM OTHERS FOR PROCESSING ON A CONTRACT BASIS – If you received oils from others for processing on a contract basis, report the nearest approximation to their commercial cost value in items 10 and 17. Report the estimated value of these products, f.o.b. plant, in item 18B.

Report materials, parts, and supplies purchased, transferred from other plants of your company or withdrawn from inventory.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

Include on lines 1 through 21 only those quantities of materials which you purchased or received from sources other than petroleum refineries or lube manufacturers.

Quantities and cost of materials received from petroleum refineries or lube manufacturers should be included on line 22.

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).

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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."

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)	
						(E)	
(A)	(B)	(C)	(D)	574 Millions	Thou-sands	Dollars	
1	CRUDE PETROLEUM	Domestic, including lease condensate (Report topped petroleum on line 22 below)	131111 7	↑ 1,000 barrels ↓		\$	
2		Foreign	131112 5				
3	Foreign unfinished oils (received from foreign countries for further processing)		291181 6				
4	NATURAL GAS LIQUIDS	Ethane (C ₂), at least 80% purity	132128 0				
5		Propane (C ₃), at least 80% purity	132129 8				
6		Butane (C ₄), at least 80% purity	132121 5				
7		Gas mixtures (C ₂ , C ₃ , C ₄)	132124 9				
8		Isopentane and natural gasoline	132125 6				
9		Other natural gas liquids, including plant condensate	132139 7				
10	Benzol (benzene) (100% C ₆ H ₆)		291107 1				
11	Toluene and xylene (100% basis)		286519 4				
12	ADDITIVES (Except animal and vegetable oils)	Antioxidants, antiknock compounds, and inhibitors	280011 8				
13		Other additives, including soaps and detergents	280012 6				
14	Animal and vegetable oils		207001 9	1,000 pounds			
15	Chemical catalytic preparations		281980 3				
16	Sodium hydroxide (caustic soda) (100% NaOH)		281238 6	↑ Short tons			
17	Sulfuric acid (100% H ₂ SO ₄), excluding spent		281931 6	↓			

Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued

Line No.	Materials, parts, and supplies (A)		Census material code (B)	Unit of measure for quantities (C)	Consumption of purchased materials and of materials received from other establishments of your company			
					Quantity (D)	Cost, including delivery cost (freight-in) (E)		
						574	Thou-	Dollars
		571	573	Millions	sands			
18	CONTAINERS	Metal	340001 7				\$	
19		Plastics	308030 6					
20		Paper and paperboard	260051 8					
21		Fiber cans, bodies with combinations of fiber and other materials (foil, plastics, etc.) with metal ends	265522 3					
22	Cost of materials received from petroleum refineries and lube manufacturers		290004 1	1,000 barrels				
23	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					
24	TOTAL Sum of lines 1–23 should equal item 10, line a						\$	

Item 18A. TYPE OF OPERATION

If your establishment was primarily engaged in any of the operations listed below, please mark (X) appropriate box.

	Key	Mark (X) appropriate box
1. Petroleum refining	401	7153 <input type="checkbox"/>
2. Producing petrochemicals (lines 23–28, 35, and 36) from feedstocks purchased or transferred from other establishments	402	7179 <input type="checkbox"/>
3. Blending and compounding lubricants, other than in refineries	403	7187 <input type="checkbox"/>
4. Re-refining or reclaiming used oils by a distillation process	404	7211 <input type="checkbox"/>
5. Operating natural gasoline, cycle condensate, or natural gas liquids fractionating plant	405	7237 <input type="checkbox"/>
6. Other (such as producing packaged fuel, fuel briquettes, etc.) – <i>Specify</i>	406	7252 <input type="checkbox"/>

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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.

Include in this section any material received, processed, or shipped from this establishment for the account of other establishments. Include also as shipments oils produced at this establishment and transferred to other establishments. However, do not include as shipments the oils produced for this establishment at another establishment.

See "Supplemental Instructions" for products to be included on specific product lines.

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

a. MATERIALS OWNED BY THIS ESTABLISHMENT AND PROCESSED ON A CONTRACT BASIS BY ANOTHER ESTABLISHMENT – If you own oils which were processed for you on a contract basis at other locations, do not include any data for such processing in this report (specifically items 10, 17, 18B).

b. MATERIALS RECEIVED FROM OTHERS FOR PROCESSING ON A CONTRACT BASIS – If you received oils from others for processing on a contract basis, report the nearest approximation to their commercial cost value in items 10 and 17. Report the estimated value of these products, f.o.b. plant, in item 18B.

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) Schedules. If you report on the CIR forms, the value of shipments for items designated by an asterisk should equal the sum of the detail reported on these forms.

NOTE: Only totals are requested; do not duplicate detail reported.

6. Manufacturing Activities to be Included – Separate reports should be prepared for each petroleum refinery, including associated lube, wax, asphalt, etc., departments, and each plant primarily engaged in blending or compounding lubricants or in re-refining or reclaiming used oils. Include activities of topping plants. Do not include nonmanufacturing activities, such as oil- and gas-well operations, activities of natural-gasoline, cycle-condensate, or natural-gas liquids fractionating plants, transportation by pipelines or other methods, bulk stations, distributing terminals, filling stations, etc.

SUPPLEMENTAL INSTRUCTIONS

For items which there may be some doubt, the following statements may be helpful in indicating the lines on which they should be reported –

Lines 1 and 2 – Include all finished gasolines, finished base stocks, and blending agents, such as: alkylate, polymers (dimer, codimer, etc.), hydropolymers (hydrodimer, hydrocodimer, etc.), cumene, isopentane, isohexane, neohexane, isoheptane, iso-octane, motor benzol (benzene), and other blending agents derived from petroleum (exclude natural gasoline).

Line 5 – Include range oil, signal oil, mineral seal oil, mineral colza oil, long-time burning oil, 300-degree oil, and insecticide base.

Lines 10 and 12 – Include greases for aviation, automotive, industrial, and railroad uses; launching grease; and cutting, drawing, and grinding compounds and paste. Also include paste rust-preventive compounds and thread compounds.

Line 13 – Include such products as cracking stock, naphtha stocks, slops, wax distillate, and other unfinished petroleum oils. Exclude lubricating oil base stocks, natural gasoline, and cycle condensates.

Lines 16 through 19 – Include light, medium neutral, heavy neutral, and residual stocks.

Lines 20 through 22 – Include flux for paving, roofing, waterproofing, mastic, and other purposes; cutback asphalt; emulsified asphalt and fluxes; and other liquid asphaltic products except road oil and fuel oil used for heating purposes.

Lines 23 through 26 – Include ethane, propane, propene, butane, butene, propane-butane mixtures, propadiene, pentane, butadiene, and other liquefied hydrocarbon gases.

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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		Census product code 581	Unit of measure for quantities 583	Products shipped and other receipts					
					Quantity 583	Value, f.o.b. plant (E)				
						584	Thou- sands	Dollars		
(A)	(B)	(C)	(D)	Millions						
1	GASOLINE (Including finished stocks and blending agents) (29111)	Aviation gasoline, except jet fuel		29111 11 9	1,000 barrels					
2		Motor gasoline		29111 31 7		\$				
3	JET FUEL (29112)	Naphtha type		29112 11 7						
4		Kerosene type		29112 13 3						
5	Kerosene, except jet fuel (29113)		29113 00 8							
6	LIGHT FUEL OILS (29114)	Distillate fuel oil, including grades No. 1, 2, light diesel type, light gas-enrichment oils, etc.		29114 12 1						
7		No. 4 type fuel oil		29114 14 7						
8	Heavy fuel oils, including grades No. 5, 6, heavy diesel type, heavy gas-enrichment oils, etc. (29115)		29115 00 3							
9	Lubricating Oils and Greases	MADE IN A REFINERY (29117)	Lubricating and similar oils, including hydraulic fluids, quenching and cutting oils, transformer oils, and liquid rust preventives			29117 21 5				
10			Lubricating greases			29117 31 4				
11		NOT MADE IN A REFINERY (29920)	Lubricating and similar oils, including hydraulic fluids, quenching and cutting oils, transformer oils, and liquid rust preventives			29920 21 2				
12			Lubricating greases			29920 31 1				
13	Unfinished Oils and Lubrica- ting Oil Base Stock (29118)	Unfinished oils, naphthenic and paraffinic		29118 13 0						
14		Naphtha and other oils for use as petrochemical feedstocks, excluding carbon black		29118 16 3						
15		Carbon black feedstock		29118 17 1						
16		LUBRICATING OIL PETROLEUM BASE STOCKS (For blending, compounding, and grease manufacture)	Bright stock			29118 51 0				
17			Neutral stock			29118 52 8				
18			Red and pale oils			29118 56 9				
19			Other oils			29118 59 3				
20	ASPHALT (29119)	Paving grade asphalts		29119 21 1						
21		Roofing grade asphalts		29119 31 0						
22		Miscellaneous asphalts, n.e.c.		29119 41 9						
23	Liquefied Refinery Gases (Including other aliphatics) (Feed stock and other uses)	MADE IN A REFINERY (2911A)	Chemical raw material, including synthetic rubber components		2911A 21 8					
24			Other uses		2911A 22 6					
25		MADE FROM PURCHASED REFINERY PRODUCTS (28691)	Chemical raw material, including synthetic rubber components		28691 32 7					
26			Other uses		28691 33 5					

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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		Census product code 581	Unit of measure for quantities (C)	Products shipped and other receipts			
					Quantity 583	Value, f.o.b. plant (E)		
						584	Thou-	Dollars
(A)	(B)	(C)	(D)	Millions	sands			
27	AROMATICS, MADE FROM PURCHASED REFINERY PRODUCTS (28656)	Chemical raw material	28656 58 5				\$	
28		Other uses	28656 59 3					
29	Other Finished Petroleum Products (Including waxes) (2911D)	Petrolatum	2911D 11 3	1,000 barrels				
30		Petroleum coke	2911D 23 8	↑ Short tons ↓				
31		Calcined petroleum coke, made in a refinery	2911D 25 3					
32		Road oil	2911D 31 1	1,000 barrels				
33		Still gas	2911D 41 0	Million cu ft				
34		Special naphthas	2911D 51 9	1,000 barrels				
35		AROMATICS, MADE IN A REFINERY (Benzene, toluene, xylenes, etc.)	Chemical raw materials	2911D 55 0				
36			Other uses	2911D 57 6				
37		WAX, MADE IN A REFINERY (See lines 41 and 42)	Microcrystalline	2911D 62 6	↑ 1,000 barrels ↓			
38			Crystalline	Fully refined		2911D 72 5		
39	Other			2911D 82 4				
40	Other finished petroleum products made in a refinery		2911D 99 8					
41	Products of Petroleum and Coal, N.E.C. (29990)	WAX, NOT MADE IN A REFINERY	Microcrystalline	29990 20 7				
42			Crystalline	29990 30 6				
43		Calcined petroleum coke, not made in a refinery		29990 91 8	↑ Short tons ↓			
44		Other petroleum and coal products, n.e.c., including packaged fuel and fuel briquettes, and petroleum pitches		29990 98 3				
45	Cyclic (coal tar) intermediates		28651 00 8					
46	Miscellaneous end-use chemicals and chemical products, excluding urea		28696 00 3					
47	MISCELLANEOUS CYCLIC AND ACYCLIC CHEMICALS AND CHEMICAL PRODUCTS (28697)	Fluorocarbon gases		28697 11 8				
48		Carbon bisulfide (disulfide)		28697 13 4				
49		Fatty acid esters		28697 15 9				
50		Other		28697 19 1				

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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		Census product code <small>581</small>	Unit of measure for quantities <small>583</small>	Products shipped and other receipts			
					Quantity <small>583</small>	Value, f.o.b. plant (E)		
						<small>584</small>	Thou-	Dollars
(A)	(B)	(C)	(D)	Millions	sands			
51	Synthetic ammonia, nitric acid, and ammonium compounds (corresponds to the sum of item codes 3111-3143 and 3151-3159 as reported on census form MA28B)*		28731 00 8				\$	
52	Activated and reactivated carbon, granular and pulverized		28199 25 5					
53	Inorganic dyes		28199 91 7					
54	Other inorganic chemicals, n.e.c., - Specify kind							
			28199 97 4					
55	Bulk surface active agents (including amphoteric, anionic, cationic, and nonionic bulk surface active agents that reduce the surface tension of water or other solvents and are used chiefly as detergents, dispersing agents, emulsifiers, forming agents, or wetting agents in either aqueous or nonaqueous systems; excluding surface active agents produced or purchased and sold as active ingredients in formulated products)		28430 85 8					
56	Automotive antifreeze preparations		28995 34 8	1,000 gallons				
57	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT	<i>Describe and report separately for 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					
			26					
			34					
			42					
			59					
			67					
			75					
			83					
			91					
66	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					

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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 (B)	Unit of measure for quantities (C)	Products shipped and other receipts				
					Quantity (D)	Value, f.o.b. plant (E)			
						584 Millions	Thou- sands	Dollars	
67	MISCELLANEOUS RECEIPTS	Sales of scrap, refuse, electricity, and other miscellaneous receipts (including receipts for repair work, etc.)	99980 00 5			\$			
68	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						
69	TOTAL value of shipments and other receipts Sum of lines 1–68, 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>)				
Period covered		FROM: Month	Day	Year	TO: Month	Day	Year
		666	1		2		
Signature of authorized person				Title		Date	