

16 DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES

General - The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in **2**. 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 that are not listed, describe and report them in the "Cost of all other materials . . ." 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 009700 99 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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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.

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 amount 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.

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 **15**, **16**, and **2**).

b. MATERIALS RECEIVED FROM OTHERS FOR PROCESSING ON A CONTACT BASIS - If you received oils from others for processing on a contract basis, report the nearest approximation to their commercial cost value in **15**, line A5 and **16**. Report the estimated value of these products, f.o.b. plant, in **2**.

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 **15**, line A2, not in **16**. The value of these products shipped by this establishment should be reported in **2** under Census product code 000999 8900 6, "Resales."

Special Instructions -

Include on lines 1 through 17 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 23.

INFORMATION COPY
 DO NOT USE TO REPORT

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)		
					\$ Bil.	Mil.	Thou.
0634		0630	0636	0632	0631		
1	Crude petroleum Domestic, including lease condensate (Report topped petroleum on 23.)	211111 03 4	↑ 1000 bbl ↓				
2	Foreign	009998 30 3					
3	Foreign unfinished oils (received from foreign countries for further processing)	009998 27 9					
4	Coal used in the production of coke	212110 01 9	short tons				
5	Natural gas liquids Ethane, at least 80 percent purity (C ₂)	211112 05 7	↑ 1000 bbl ↓				
6	Propane, at least 80 percent purity (C ₃)	211112 07 3					
7	Butane, at least 80 percent purity (C ₄)	211112 03 2					

CONTINUE WITH **16** ON PAGE 9

32401085

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

16 DETAILED COST OF MATERIALS, PARTS, AND SUPPLIES - Continued

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)			
					\$ Bil.	Mil.	Thou.	
0634		0630	0636	0632	0631			
	Natural gas liquids - Continued							
8	Gas mixtures (C ₂ , C ₃ , C ₄)	211110 21 8	1000 bbl					
9	Isopentane and natural gasoline	211110 23 4						
10	Other natural gas liquids, including plant condensate	211112 09 9						
11	Benzol (benzene) (100 percent C ₆ H ₆)	324110 15 4						
12	Toluene and xylene (100 percent basis)	325192 14 4						
13	Additives (excluding animal and vegetable oils) Antioxidants, antiknock compounds, and inhibitors	325000 17 2						
14	Other additives, including soaps and detergents	325000 19 8						
15	Animal and vegetable oils	311000 13 7	1000 lb					
16	Sodium hydroxide (caustic soda) (100 percent NaOH)	325181 07 1	short tons					
17	Sulfuric acid, excluding spent acid (100 percent H ₂ SO ₄)	325188 05 0						
18	Chemical catalytic preparations	325188 25 8						
	Containers							
19	Plastics	326100 35 1						
20	Metal	332400 00 1						
21	Paper and paperboard	322200 15 5						
22	Fiber cans, bodies with combinations of fiber and other materials with metal ends (foil, plastics, etc.)	322214 00 8						
23	Cost of materials received from petroleum refineries and lube manufacturers	324100 07 2	1000 bbl					
24	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.) ↴	009700 99 8						
25	TOTAL (Should equal total reported in 16, line A1)	771000 00 7						

32401093

17 Not Applicable.

18 TYPE OF OPERATION
(Mark "X" ALL that apply.)

Method of operation of this establishment during 2002

- 0620 476 Petroleum refining
- 478 Producing petrochemicals from feedstocks purchased or transferred from other establishments. (Petrochemical products are shown in 2, lines 23-28, 35, and 36.)
- 480 Blending and compounding lubricants, other than in refineries
- 482 Re-refining or reclaiming used oils by a distillation process
- 484 Operating natural gasoline, cycle condensate, or natural gas liquids fractioning plant
- 486 Other types of operation (such as producing packaged fuel, fuel briquettes, etc.) (Specify kind.) 7

0620

19-21 Not Applicable.

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE

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 2. 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.

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.

Contract Work -

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 15, 16, 22).

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 15 and 16. Report the estimated value of these products, f.o.b. plant, in 22.

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 code 000999 8900 6, "Resales."

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 form, the sum of the detailed products should equal the total reported on this form.

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

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.

Special Reporting Instructions and Definitions -

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

CONTINUE WITH 2 ON PAGE 11

CONTINUE ON PAGE 11

32401101

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

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, mimeral 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, butane, butene, propane-butane mixtures, propadiene, pentane, butadiene, and other liquefied hydrocarbon gases.

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Unit of measure for quantities	Products shipped and other receipts			
				Quantity	Value, f.o.b. plant		
					\$ Bil.	Mil.	Thou.
0734		0730	0736	0732	0731		
	Gasoline (including finished stocks and blending agents)		1000 bbl				
1	Aviation gasoline, except jet fuel	324110 1111 0					
2	Motor gasoline	324110 1121 9					
	Jet fuel						
3	Naphtha type	324110 4111 7					
4	Kerosene type	324110 4121 6					
5	Kerosene, except jet fuel	324110 7100 7					
	Light fuel oils						
6	Distillate fuel oil, including grades No. 1, 2, light diesel type, light gas-enrichment oils, etc. . . .	324110 A111 0					
7	No. 4 type fuel oil	324110 A121 9					
8	Heavy fuel oils, including grades No. 5, 6, heavy diesel type, heavy gas-enrichment oils, etc.	324110 D100 0					
	Lubricating oils and greases Made in a refinery						
9	Lubricating and similar oils, including hydraulic fluids, quenching and cutting oils, transformer oils, and liquid rust preventives	324110 G111 4					
10	Lubricating greases	324110 G121 3					
	Not made in a refinery						
11	Lubricating and similar oils, including hydraulic fluids, quenching and cutting oils, transformer oils, and liquid rust preventives	324191 0111 1					
12	Lubricating greases	324191 0121 0					

CONTINUE WITH 22 ON PAGE 12

32401119

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued							
Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Unit of measure for quantities	Products shipped and other receipts			
				Quantity	Value, f.o.b. plant		
					\$ Bil.	Mil.	Thou.
0734		0730	0736	0732	0731		
	Unfinished oils and lubricating oil base stock		1000 bbl				
13	Unfinished oils, naphthenic and paraffinic . . .	324110 J111 1					
14	Naphtha and other oils for use as petrochemical feedstocks, excluding carbon black	324110 J121 0					
15	Carbon black feedstock	324110 J131 9					
	Lubricating oil petroleum base stocks (for blending, compounding, and grease manufacture)						
16	Bright stock	324110 J141 8					
17	Neutral stock	324110 J151 7					
18	Red and pale oils	324110 J161 6					
19	Other oils	324110 J171 5					
	Asphalt						
20	Paving grade asphalts	324110 M111 8					
21	Roofing grade asphalts	324110 M121 7					
22	Miscellaneous asphalts, nec	324110 M131 6					
	Liquefied refinery gases, including other aliphatics (feed stock and other uses)						
	Made in a refinery						
23	Chemical raw material, including synthetic rubber components	324110 P111 5					
24	Other uses	324110 P121 4					
	Made from purchased refinery products						
25	Chemical raw material, including synthetic rubber components	325110 4111 6					
26	Other uses	325110 4121 5					
	Aromatics made from purchased refinery products						
27	Chemical raw material	325110 1111 9					
28	Other uses	325110 1121 8					
	Other finished petroleum products (including waxes)		1000 bbl				
29	Petrolatum	324110 T111 1					
30	Petrolatum coke	324110 T121 0	short tons				
31	Calcined petroleum coke, made in a refinery . .	324110 T131 9					
32	Road oil	324110 T141 8	1000 bbl				

CONTINUE WITH 22 ON PAGE 13

CONTINUE ON PAGE 13

32401127

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Unit of measure for quantities	Products shipped and other receipts				
				Quantity	Value, f.o.b. plant			
					\$ Bil.	Mil.	Thou.	
0734		0730	0736	0732	0731			
	Other finished petroleum products (including waxes) - Continued		mil ft ³					
33	Still gas	324110 T151 7	↑ ↓					
34	Special naphthas	324110 T161 6	1000 bbl					
	Aromatics, made in a refinery (benzene, toluene, xylenes, etc.)							
35	Chemical raw materials	324110 T171 5						
36	Other uses	324110 T181 4						
	Wax, made in a refinery (See lines 46 and 47.)		↑ ↓					
37	Microcrystalline	324110 T191 3						
	Wax, made in a refinery (See lines 47 and 46.) Crystalline		1000 bbl					
38	Fully refined	324110 T1A1 1						
39	Other	324110 T1B1 0						
40	Other finished petroleum products made in a refinery	324110 T1C1 9	↓					
	Coke oven products, not made in steel mills		↑ ↓					
41	Coke, except screenings and breeze	324199 1111 3	short tons					
42	Screenings and breeze	324199 1121 2	↓					
43	Crude tar	324199 1131 1	↑ ↓					
44	Crude light oil	324199 1141 0	1000 gal					
45	Other coke oven products (including tar derivatives, ammonia, light oil derivations, and coke oven gas)	324199 1151 9						
	Products of petroleum and coal, nec Wax, not made in a refinery		↑ ↓					
46	Crystalline	324199 2221 9	1000 bbl					
47	Microcrystalline	324199 2211 0	↓					
48	Calcined petroleum coke, but not made in a refinery	324199 2131 0	↑ ↓					
49	Other petroleum and coal products, nec, including packaged fuel and fuel briquettes, and petroleum pitches	324199 2241 7	short tons					
50	Cyclic (coal tar) intermediates	325192 1100 0						

CONTINUE WITH 22 ON PAGE 14

CONTINUE ON PAGE 14

32401135

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued							
Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Unit of measure for quantities	Products shipped and other receipts			
				Quantity	Value, f.o.b. plant		
					\$ Bil.	Mil.	Thou.
0734		0730	0736	0732	0731		
51	Miscellaneous end-use chemicals and chemical products, excluding urea	325199 T100 6					
52	Fluorocarbon gases	325120 G100 5					
53	Carbon bisulfide (disulfide)	325188 G130 9					
54	Fatty acid esters	325199 1181 5					
55	Miscellaneous cyclic and acyclic chemicals and chemical products, except fatty acid esters	325199 U200 3					
56	Synthetic ammonia, nitric acid, and ammonium compounds (Corresponds to value of shipments reported on CIR Form MQ325B, Fertilizer Materials and Related Chemicals, for 2002, item codes 5301, 6111 - 6121, 6241 - 6291)*	325311 1100 6					
57	Activated and reactivated carbon, pulverized and granular	325998 H1G1 4					
58	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)	325613 0241 8					
59	Automotive antifreeze preparations	325998 E111 3	1000 gal				
60	All other products made in this establishment - Specify and report each product with sales value of \$50,000 or more that cannot be assigned to one of the "listed products and services". For all remaining products, write "Other" and report a single total value.	18					
61		26					
62		34					
63		42					
64		59					
65		67					
66	Contract work - Receipts for work done for others on their materials (Specify products worked on and kind of work.) ↴	000930 0000 8					

CONTINUE WITH 22 ON PAGE 15

32401143

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

22 DETAIL OF SALES, SHIPMENTS, RECEIPTS, OR REVENUE - Continued

Line No.	Products and services *Items correspond to products reported on Current Industrial Reports (CIR)	Census product code	Unit of measure for quantities	Products shipped and other receipts				
				Quantity	Value, f.o.b. plant			
					\$ Bil.	Mil.	Thou.	
0734		0730	0736	0732	0731			
67	Miscellaneous receipts (including receipts for repair work, scrap, refuse, etc.)	000999 8000 5						
68	Resales - Sales of products bought and sold without further manufacture, processing, or assembly (The cost of such items should be reported in 15, line A2.)	000999 8900 6						
69	TOTAL (Should equal 4, line A)	770000 0000 8						

23-27 Not Applicable.



32401150

28 ESTABLISHMENT ACTIVITIES

A. Indicate activities that were performed by this establishment or were performed for this establishment by another company during 2002.
(Mark "X" ALL that apply.)

This activity was performed -			
By this establishment	By another establishment of this company	By another company	Not at all
0921 <input type="checkbox"/>	8071 <input type="checkbox"/>	0941 <input type="checkbox"/>	0961 <input type="checkbox"/>
1. Product design/engineering			
2. Order fulfillment			
0923 <input type="checkbox"/>	8072 <input type="checkbox"/>	0943 <input type="checkbox"/>	0963 <input type="checkbox"/>
a. Bundling or kitting (combining multiple items into a prepackaged product)			
0924 <input type="checkbox"/>	8073 <input type="checkbox"/>	0944 <input type="checkbox"/>	0964 <input type="checkbox"/>
b. Pick and pack (taking goods from inventory and packaging them to fill orders).			
0925 <input type="checkbox"/>	8074 <input type="checkbox"/>	0945 <input type="checkbox"/>	0965 <input type="checkbox"/>
c. Warehousing of finished products			
0926 <input type="checkbox"/>	8075 <input type="checkbox"/>	0946 <input type="checkbox"/>	0966 <input type="checkbox"/>
d. Breaking bulk (reducing large shipments into smaller portions for customers)			
0927 <input type="checkbox"/>	8076 <input type="checkbox"/>	0947 <input type="checkbox"/>	0967 <input type="checkbox"/>
e. Local delivery (within a city, town, or other local area, including adjoining towns and suburban areas)			
0928 <input type="checkbox"/>	8077 <input type="checkbox"/>	0948 <input type="checkbox"/>	0968 <input type="checkbox"/>
f. Long distance delivery (beyond local areas and commercial zones)			
0932 <input type="checkbox"/>	8078 <input type="checkbox"/>	0952 <input type="checkbox"/>	0972 <input type="checkbox"/>
g. Processing of returned merchandise			

B. During 2002 did this establishment:

- | | | |
|--|-----------------------------------|----------------------------------|
| 1. Manage inventory owned by this establishment AND held at this location? | 0936 <input type="checkbox"/> Yes | 0937 <input type="checkbox"/> No |
| 2. Manage inventory owned by this establishment BUT held at a customer's location? | 0956 <input type="checkbox"/> Yes | 0957 <input type="checkbox"/> No |
| 3. Manage inventory owned by another company BUT held at this location? | 0976 <input type="checkbox"/> Yes | 0977 <input type="checkbox"/> No |
| 4. Manage inventory owned by another company AND held somewhere other than at this location? | 0994 <input type="checkbox"/> Yes | 0995 <input type="checkbox"/> No |
| 5. Contract with another firm for any of your production using materials owned by this location? | 8041 <input type="checkbox"/> Yes | 8042 <input type="checkbox"/> No |
| 6. Send any partially completed products to a foreign facility for processing that were then returned to this establishment for completion? | 8044 <input type="checkbox"/> Yes | 8045 <input type="checkbox"/> No |
| 7. Manufacture products for a government to their specifications? | 8047 <input type="checkbox"/> Yes | 8048 <input type="checkbox"/> No |
| 8. Manufacture products for another business to their specifications? | 8016 <input type="checkbox"/> Yes | 8017 <input type="checkbox"/> No |
| 9. Manufacture products for a final retail customer to their specifications? | 8060 <input type="checkbox"/> Yes | 8062 <input type="checkbox"/> No |



32401168

If not shown, please enter your 11-digit Census File Number (CFN) from the mailing address.

29 OPERATIONAL STATUS

Activity that best describes this establishment's status at the end of 2002
(Mark "X" only ONE box.)

- 0011 In operation
- 0012 Under construction, development, or exploration
- 0013 Temporarily or seasonally inactive
- 0014 Ceased operation - Give date at right →
- 0015 Sold or leased to another operator - Give date at right AND enter new name and mailing address below ↴

0018	Month	Day	Year

0060 Name of new owner or operator		0061 Employer Identification Number		
		Enter EIN of new owner (9 digits) →		
0062 Mailing address (number and street, P.O. Box, etc.)				
0063 City, town, village, etc.		0064 State	0065 ZIP Code	

Remarks (Please use this space for any explanations that may be essential in understanding your reported data.)

30 CERTIFICATION - This report is substantially accurate and was prepared in accordance with the instructions.

Is the time period covered by this report a calendar year?

- 0078 Yes
- 0079 No - Enter time period covered →

FROM	Month	Year	TO	Month	Year
0070			0071		

0072 Name of person to contact regarding this report	0073 Title

Telephone	Area code	Number	Extension	Fax	Area code	Number
0074				0075		

0076 Internet e-mail address	Date completed	Month	Day	Year
	0069			

Thank you for completing your 2002 Economic Census form.
PLEASE PHOTOCOPY THIS FORM FOR YOUR RECORDS AND RETURN THE ORIGINAL.

32401176