

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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 - Include all 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 **15**, line A5, 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.

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."

Produced and Consumed - Industrial Chemicals - Report the quantities produced and used in manufacturing other products made in this establishment in **16**. Note that the materials used to produce these items should be reported in **2**.

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			
	Acids (excluding spent acids)		↑ short tons ↓					
1	Hydrochloric acid (100 percent HCl)	325188 07 6						
2	Hydrofluoric acid (100 percent HF)	325188 09 2						
3	Nitric acid (100 percent HNO ₃)	325311 01 7						
4	Sulfuric acid (100 percent H ₂ SO ₄)	325188 05 0						
5	Ammonia, synthetic anhydrous (100 percent NH ₃)	325311 03 3						
6	Chlorine (100 percent Cl)	325181 03 0						
7	Sodium hydroxide (100 percent NaOH) (caustic soda)	325181 07 1						
8	All other industrial inorganic chemicals	325000 71 9						
9	Acetylene and other industrial gases, compressed and liquefied, including argon, carbon dioxide, nitrogen, nitrous oxide, etc.	325120 01 2						
10	Alcohol, ethyl (pure and denatured)	325193 00 1						
11	Other alcohols, including amyl, butyl, methyl, and propyl	325100 67 5						

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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			
12	Toluene and xylene (100 percent basis)	325192 13 6	1000 lb					
13	Phenol (100 percent basis)	325192 05 2						
14	Orthoxylene and paraxylene (100 percent basis)	325192 31 8						
15	Benzol (benzene) (100 percent C ₆ H ₆)	324110 13 9						
16	Tar, crude	325192 23 5	short tons					
17	Other cyclic crudes and intermediates	325192 33 4	1000 lb					
18	Acetone (natural and synthetic)	325100 75 8						
19	Other synthetic organic chemicals, nec	325100 A5 4						
20	Hydrocarbons used as raw materials or feedstocks (Do not include fuel or energy reported in 16, line A3.)		mil ft ³					
	Natural gas	211110 13 5						
21	Ethane	324110 31 1	1000 lb					
22	Ethylene	324110 33 7						
23	Propane	324110 35 2						
24	Propylene	324110 37 8						
25	Butane and isobutane	324110 39 4						
26	Butylene and isobutylene	324110 41 0						
27	Other	001900 12 5						
28	Sulfur	212393 03 7	long tons					
29	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	325211 05 0						
30	Agricultural products (crude), including flowers, grains, seeds, herbs, etc.	111000 33 7						
31	Crude nonmetallic minerals, including limestone, clay, gypsum, talc, etc.	212300 09 9						
32	Fats, oils, greases, and tallow (animal, including lanolin; marine; vegetable, including carnuba and other vegetable waxes)	311000 27 7						
33	Alkalies and chlorine	325181 01 4						

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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.		
					0631				
34	Industrial inorganic chemicals (acids, sodium compounds, anhydrous ammonia, etc.; excluding medicinals)	325000 A7 2							
35	Wood rosin, turpentine, and other wood chemicals, including tall oil	325191 01 3							
36	Synthetic organic chemicals, nec	325100 99 8							
37	Parts and attachments for machinery and equipment	333000 15 6							
38	Containers Plastics	326100 29 4							
39	Paperboard containers, boxes, and corrugated paperboard	322210 01 4							
40	Metal containers	332400 00 1							
41	Cost of all other materials and components, parts, containers, and supplies consumed (<i>Specify the principal materials, etc., included in this value.</i>) ↘	009700 99 8							
42	TOTAL (<i>Should equal total reported in 16, line A1</i>)	771000 00 7							

17-21 Not Applicable.



32511107

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

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.

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 - 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 code 000930 0000 8.

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.

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			
1	Fatty acids		1000 lb					
	Saturated							
	Stearic fatty acids (40 to 50 percent stearic content)	325199 1111 2						
2	Hydrogenated animal and vegetable fatty acids	325199 1121 1						
3	Other saturated acids, including hydrogenated fish and marine mammal fatty acids (Specify kind.) ↘							
		325199 1131 0						
4	Unsaturated		1000 lb					
	Oleic fatty acids, including white oleic acid and red oil	325199 1141 9						
5	Other unsaturated fatty acids, including animal fatty acids other than oleic (I.V. 36-80), vegetable or marine (I.V. max. 115), and other unsaturated fatty acids (I.V. 116 or more)	325199 1151 8						
6	Tall oil		1000 lb					
	Containing less than 2 percent rosin acids and more than 95 percent fatty acids	325199 1161 7						
7	Containing 2 percent or more rosin acids	325199 1171 6						
8	Fatty acid esters	325199 1181 5						
9	Bulk pesticides and other bulk synthetic organic agricultural chemicals, except preparations	325199 4100 2						

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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		
10	Industrial organic flavor oil mixtures and blends	325199 7100 9					
11	Reagent and high-purity grades of organic chemicals refined from purchased technical grades	325199 A100 5					
12	Natural organic chemicals, nec Natural organic chemical derivatives of fatty substances, including salts, alcohols and esters, except plasticizers and surface active agents	325199 E111 8					
13	Other natural organic chemicals, nec	325199 E121 7					
14	Synthetic organic alcohols Unmixed Methanol (methyl alcohol)	325199 G110 8					
15	Isopropyl alcohol	325199 G120 7					
16	Butyl alcohol	325199 G130 6					
17	Other	325199 G140 5					
18	Mixed	325199 G210 6					
19	Synthetic organic chemical compounds for use as flavor and perfume materials Unmixed	325199 H111 5					
20	Mixed	325199 H121 4					
21	Synthetic organic rubber-processing chemicals	325199 K100 5					
22	Synthetic organic plasticizers	325199 N100 2					
23	Other synthetic organic chemicals, nec	325199 R100 8					
24	Miscellaneous end-use chemicals and chemical products, excluding urea	325199 T100 6					
25	Miscellaneous cyclic and acyclic chemicals and chemical products, except fatty acid esters	325199 U200 3					
26	Aliphatics made from purchased refinery products Chemical raw material	325110 4111 6					
27	Other uses	325110 4121 5					
28	Aromatics made from purchased refinery products Chemical raw material	325110 1111 9					
29	Other uses	325110 1121 8					
30	Fluorocarbon gases	325120 G100 5					
31	Synthetic organic dyes	325132 1100 6					

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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			
32	Synthetic organic pigments, lakes, and toners . . .	325132 4100 3						
33	Alkalies and chlorine Chlorine, compressed or liquefied (Corresponds to value of shipments reported on CIR Form MQ325A, Inorganic Chemicals, for 2002, item codes 2111 - 2115)*	325181 1100 3						
34	Sodium hydroxide (caustic soda) (Corresponds to value of shipments reported on CIR Form MQ325A, Inorganic Chemicals, for 2002, item code 2352)*	325181 4100 0						
35	All other basic inorganic chemicals Sulfuric acid (Corresponds to value of shipments reported on CIR Form MQ325B, Fertilizers and Related Chemicals, for 2002, item codes 3100 - 3300)*	325188 1100 8						
36	Inorganic acids, except nitric, sulfuric, and phosphoric (Corresponds to value of shipments reported on CIR Form MQ325A, Inorganic Chemicals, for 2002, item codes 3445 - 3451)*	325188 4100 5						
37	Potassium and sodium compounds, excluding bleaches, alkalies, and alum (Corresponds to value of shipments reported on CIR Form MQ325A, Inorganic Chemicals, for 2002, item codes 3703 - 3784)*	325188 A100 8						
38	Chemical catalytic preparations, excluding silica gel catalyst	325188 D100 5						
39	Carbon bisulfide (disulfide)	325188 G130 9						
40	Recovered elemental sulfur from natural gas	325188 G110 1						
41	Other inorganic chemicals, nec (Specify kind.) ↴ 	325188 G120 0						
42	Cyclic (coal tar) intermediates	325192 1100 0						
43	Tar, tar crudes, and tar pitches	325192 4100 7						
44	Ethyl alcohol Pure (natural) ethyl alcohol, manufactured by other processes (dry mill-distillation) (proof gal basis)	325193 0411 0						
45	Other denatured (special or complete) ethyl alcohol, including natural and synthetic, for uses other than rubbing, manufactured by other processes (dry mill-distillation)	325193 0511 7						

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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		
	Thermoplastic resins and plastics materials		↑ 1000 lb ↓				
46	Polyethylene	325211 1110 7					
47	Polypropylene	325211 1120 6					
48	Polystyrene	325211 1130 5					
49	Polyvinyl chloride	325211 1140 4					
50	Polyester	325211 1150 3					
51	Other	325211 1160 2					
	Thermosetting resins and plastics materials		↑ 1000 lb ↓				
52	Phenolic	325211 4110 4					
53	Urea	325211 4120 3					
54	Polyester	325211 4130 2					
55	Epoxy	325211 4140 1					
56	Other	325211 4150 0					
57	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					
58	Urea (Corresponds to value of shipments reported on CIR Form MQ325B, Fertilizer Materials and Related Chemicals, for 2002, item codes 7161 - 7191)*	325311 4100 3					
59	Phosphoric acid (Corresponds to value of shipments reported on CIR Form MQ325B, Fertilizer Materials and Related Chemicals, for 2002, item codes 5401 and 5441)*	325312 1100 4					
60	Synthetic organic medicinal chemicals, in bulk Antibiotics (including all uses, such as veterinary, food supplements, food preservation, crop spraying, etc.) (Corresponds to value of shipments reported on CIR Form MA325G, Pharmaceutical Preparations Except Biologicals, for 2002)*	325411 1111 1					
61	Other synthetic organic medicinal chemicals (excluding antibiotics) (Corresponds to value of shipments reported on CIR Form MA325G, Pharmaceutical Preparations Except Biologicals, for 2002)*	325411 1221 8					
62	Surfactants (bulk surface active agents)	325613 0241 8					

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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			
63	Chemical preparations, nec, including essential oils, automotive chemicals, and water-treating compounds Rubber processing preparations, including red lead and 2-mercaptoimidazoline rubber accelerator composition	325998 H109 4	1000 lb					
64	Sizes (textile, paper, and other)	325998 H171 4						
65	Activated and reactivated carbon, pulverized and granular (Corresponds to value of shipments reported on CIR Form MQ325A, Inorganic Chemicals, for 2002, item codes 3989 - 3990)*	325998 H1G1 4						
66	Other industrial chemical specialties, including fluxes, insulation products (heat, electrical, other), and embalming preparations (Specify kind.) ↴ 	325998 H1U1 0						
67	Lubricating and similar oils, including hydraulic fluids, quenching and cutting oils, transformer oils, and liquid rust preventives	324191 0111 1	1000 bbl					
68	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						
69		26						
70		34						
71		42						
72		59						
73		67						
74	Contract work - Receipts for work done for others on their materials (Specify products worked on and kind of work.) ↴ 	000930 0000 8						

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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			
75	Miscellaneous receipts (including receipts for repair work, scrap, refuse, etc.)	000999 8000 5						
76	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						
77	TOTAL (Should equal 4 , line A)	770000 0000 8						

23-27 Not Applicable.



32511164

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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.)

Table with 4 columns: 'By this establishment', 'By another establishment of this company', 'By another company', and 'Not at all'. Rows include activities like 'Product design/engineering', 'Order fulfillment', and 'Warehousing of finished products'.

B. During 2002 did this establishment:

- 1. Manage inventory owned by this establishment AND held at this location?
2. Manage inventory owned by this establishment BUT held at a customer's location?
3. Manage inventory owned by another company BUT held at this location?
4. Manage inventory owned by another company AND held somewhere other than at this location?
5. Contract with another firm for any of your production using materials owned by this location?
6. Send any partially completed products to a foreign facility for processing that were then returned to this establishment for completion?
7. Manufacture products for a government to their specifications?
8. Manufacture products for another business to their specifications?
9. Manufacture products for a final retail customer to their specifications?



32511172

29 OPERATIONAL STATUS

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

0011 <input type="checkbox"/>	In operation	0013 <input type="checkbox"/>	Temporarily or seasonally inactive			
0012 <input type="checkbox"/>	Under construction, development, or exploration	0014 <input type="checkbox"/>	Ceased operation - Give date at right →	0018	Month	Day
		0015 <input type="checkbox"/>	Sold or leased to another operator - Give date at right AND enter new name and mailing address below ↴			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 <input type="checkbox"/>	Yes	0079 <input type="checkbox"/>	No - Enter time period covered →	FROM 0070	Month	Year	
				TO 0071	Month	Year	
0072 Name of person to contact regarding this report				0073 Title			
Telephone 0074	Area code	Number		Extension	Fax 0075	Area code	
		-				-	
0076 Internet e-mail address					Date completed 0069	Month	Day
							Year

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

32511180