

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Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.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

INFORMATION COPY
DO NOT USE TO REPORT

Line 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)		
			\$ Bil.	Mil.	Thou.
0634		0630	0631		
1	Components for electronic circuitry, excluding tubes				
	Printed circuit boards	334412 00 4			
2	Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components)	001900 C4 9			
3	Semiconductors, including transistors, diodes, rectifiers, and integrated circuits	334413 00 2			
4	Capacitors	334414 00 0			
5	Resistors	334415 00 7			
6	Other components and accessories, nec (<i>Specify kind.</i>) 7	001900 D3 0			
7	Electronic communication equipment	334220 01 9			
8	Electrical instrument mechanisms and meter movements (including instrument relays)	334515 01 2			

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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	Consumption of purchased materials and of materials received from other establishments of your company		
			Cost, including delivery cost (freight-in)		
			\$ Bil.	Mil.	Thou.
0634		0630	0631		
9	Electronic computing equipment	334100 01 3			
10	Purchased peripheral storage devices	334112 00 0			
11	Current-carrying wiring devices	335931 01 0			
12	Insulated wire and cable (including magnet wire)	331000 A7 4			
13	Loud speakers, microphones, and tuners (all types)	334310 05 9			
14	Fractional horsepower electric motors (less than 1 hp)	335312 11 2			
15	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc., but excluding sheets, rods, tubes, and other shapes	325211 05 0			
16	Fabricated plastics products (excluding gaskets, hoses, and belting)	326100 07 0			
	Fabricated metal products (excluding forgings)				
17	Sheet metal products (excluding stampings)	332000 A9 9			
18	Bolts, nuts, screws, rivets, washers, and screw machine products	332722 03 2			
19	Metal stampings	332000 AC 2			
20	Other fabricated metal products	332000 33 0			
21	Forgings	332100 01 5			
22	Castings (rough and semifinished)	331000 35 6			
	Shapes and forms (excluding castings, forgings, and fabricated metal products)				
23	Steel	331200 01 4			
24	Aluminum and aluminum-base alloy shapes and forms	331000 39 8			
25	All other nonferrous shapes and forms	331000 77 8			

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

Line 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)		
			\$ Bil.	Mil.	Thou.
0634		0630	0631		
26	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	322200 17 1			
27	Cost of all other materials and components, parts, containers, and supplies consumed (Specify the principal materials, etc., included in this value.) ↘	009700 99 8			
28	TOTAL (Should equal total reported in 15, line A1)	771000 00 7			

17-21 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.

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 product lines as if they were made by you 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" for printed circuit boards under Census code 000930 0031 3, printed circuit assemblies under Census code 000930 0032 1, and all other contract work receipts under Census code 000930 0014 9.

Report the amount that you received for other "commission or contract receipts" on line 12 Census code 000930 0000 8. Do not report on the specific product lines for these products.

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. For corresponding survey item codes, see paragraph 4, "Comparability," of CIR Instruction Manual.

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

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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	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
1	Telephone switching and switchboard equipment (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334210 1100 9			
2	Carrier line equipment (repeaters, line transceivers, multiplex equipment including channel banks, analog and digital) and external modems for POTS, ISDN, DSL, PSTN lines transmission (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334210 4100 6			
3	External modems for individual PCs, consumer (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334418 4100 5			
4	All other telephone and telegraph equipment, including telephone sets, data communication equipment, telephone answering machines, and facsimile communication equipment (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334210 7100 3			
5	Communication systems and equipment, except broadcast, but including microwave equipment such as transmitters, receivers, and amplifiers, cellular systems and equipment both analog and digital, electronic support equipment for communication systems, antenna systems, and space satellites (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334220 1100 8			
6	Broadcast, studio and related electronic equipment, except magnetic recording and reproducing heads (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Equipment, for 2002.)*	334220 2110 6			
7	Magnetic recording and reproducing heads including audio, video, digital, and instrumentation (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334220 2120 5			
8	Microwave components and devices, except antennae, tubes, and semiconductors (Corresponds to the value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards and Other Electronic Components, for 2002.)*	334220 7100 2			
9	Alarm systems, including electric sirens and horns (marine, industrial and air raid), and security locking systems (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334290 1100 1			
10	Vehicular and pedestrian traffic control equipment, electric railway signals and attachments (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334290 2100 0			
11	Intercommunications systems, including inductive paging systems (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334290 3100 9			

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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	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
12	Aeronautical, nautical, and navigational instruments, except aircraft engine instruments (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002.)*	334511 1100 0			
13	Search and detection and navigation and guidance systems and equipment (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002.)*	334511 3100 8			
14	Integrated microcircuits, including semiconductor networks, microprocessors, and MOS memories (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334413 1100 9			
15	Other semiconductor devices, including semiconductor parts such as chips, wafers, and heat sinks (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334413 A100 9			
16	Printed circuit boards and assemblies (<i>Report contract work receipts for work done by you for others on their own materials on lines 39 and 40.</i>) Printed circuit (wiring) boards (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334412 0100 2			
17	Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components) (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334418 A100 8			
18	Transducers, electrical-electronic input/output, nec (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334419 4100 3			
19	All other electronic components, nec, including delay lines, oscillators, static power supplies, electronic cable harnesses and cable assemblies, liquid crystal displays, magnetic cores, and sockets for electronic component insertion, excluding home antenna, auto antenna, antenna accessories and plotter controllers (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334419 E110 1			
20	Home antenna, auto antenna, and antenna accessories, sold separately (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	334419 E120 0			
21	Plotter controllers (Corresponds to value of shipments reported on CIR Form MA334Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components, for 2002.)*	334419 E130 9			
22	Speakers, including loudspeaker systems and loudspeakers sold separately, and commercial sound equipment (Corresponds to value of shipments reported on CIR Form MA334M, Consumer Electronics, for 2002.)*	334310 4100 4			
23	Host computers, multiusers (mainframes, super computers, medium scale systems, UNIX and PC servers) (Corresponds to value of shipments reported on CIR Form MA334R, Computers and Office and Accounting Machines, for 2002.)*	334111 1100 9			
24	Single user computers, microprocessor-based, capable of supporting attached peripherals (personal computers, workstations, portable computers) (Corresponds to value of shipments reported on CIR Form MA334R, Computers and Office and Accounting Machines, for 2002.)*	334111 7100 3			

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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	Products shipped and other receipts		
			Value, f.o.b. plant		
			\$ Bil.	Mil.	Thou.
0734		0730	0731		
25	Computer peripheral (input/output) equipment, nec, except parts, attachments, and accessories (Corresponds to value of shipments reported on CIR Form MA334R, Computers and Office and Accounting Machines, for 2002.)*	334119 1100 2			
26	Electronic teaching machines, teaching aids, trainers, and simulators, including kits (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	333319 7100 3			
27	Electronic systems and equipment, nec, including automatic garage door openers and amplifiers (except audio, RF power, and video), except electric fireplace logs and electric trouble lights (Corresponds to value of shipments reported on CIR Form MA334P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment, for 2002.)*	335999 C110 3			
28	Test equipment for testing electrical, radio and communication circuits, and motors (except portable instrument transformers) (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002.)*	334515 3100 9			
29	Sighting, tracking, and fire-control equipment, optical-type (Corresponds to the value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002.)*	333314 1100 0			
30	Aircraft engine instruments, except flight (except chronometers) (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002.)*	334519 1110 2			
31	Chronometers (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002.)*	334519 1120 1			
32	Commercial, geophysical, meteorological, and general purpose instruments and equipment, except medical thermometers (Corresponds to value of shipments reported on CIR Form MA334B, Selected Instruments and Related Products, for 2002.)*	334519 7100 7			
33	All other products made in this establishment - <i>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.</i>	18			
34		26			
35		34			
36		42			
37		59			
38		67			

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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	Products shipped and other receipts			
			Value, f.o.b. plant			
			\$ Bil.	Mil.	Thou.	
	0734	0730	0731			
	Contract work (Receipts for work done for others on their own materials)					
39	Printed circuit (wiring) boards	000930 0031 3				
40	Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components)	000930 0032 1				
	All other receipts for work done for others on their materials (<i>Specify products worked on and kind of work.</i>) ↘					
41		000930 0014 9				
	Miscellaneous receipts					
42	Receipts for research and developmental work	000999 8041 9				
43	Other miscellaneous receipts (including repair work, except computer maintenance and repair, installation, sales of scrap and refuse)	000999 8098 9				
44	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				
45	TOTAL (<i>Should equal 4, line A</i>)	770000 0000 8				

23-27 Not Applicable.



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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.)

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



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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	Month	Year	TO	Month
		0070			0071	Year
0072 Name of person to contact regarding this report				0073 Title		
Telephone		Area code	Number		Extension	Fax
0074						0075
0076 Internet e-mail address					Date completed	Month
					0069	Day
						Year

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

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