
Section 21

Manufactures

This section presents summary data for manufacturing as a whole and more detailed information for major industry groups and selected products. The types of measures shown at the different levels include data for establishments, employment and wages, plant and equipment expenditures, value and quantity of production and shipments, value added by manufacture, inventories, and various indicators of financial status.

The principal sources of these data are U.S. Census Bureau reports of the censuses of manufactures conducted every 5 years, the *Annual Survey of Manufactures*, and *Current Industrial Reports*. Reports on current activities of industries or current movements of individual commodities are compiled by such government agencies as the Bureau of Labor Statistics; the Economic Research Service of the Department of Agriculture; the International Trade Administration; and by private research or trade associations such as The Conference Board, Inc., the American Iron and Steel Institute, the Electronic Industries Association, and several others.

Data on financial aspects of manufacturing industries are collected by the Bureau of Economic Analysis (BEA) and the U.S. Census Bureau (see especially tables 997-999). Industry aggregates in the form of balance sheets, profit and loss statements, analyses of sales and expenses, lists of subsidiaries, and types and amounts of security issues are published for leading manufacturing corporations registered with the Securities and Exchange Commission. The BEA issues data on capital in manufacturing industries and capacity utilization rates in manufacturing. See also Section 15, Business Enterprise.

Several private trade associations provide industry coverage for certain sections of the economy. They include the Aluminum Association (Table 1006), American Iron and Steel Institute (Tables 1007 and

1008), Consumer Electronics Association (Tables 1014 and 1015), and the Aerospace Industries Association (Tables 1020 and 1022). Machine tool consumption data (Table 1010) is produced jointly by the Association for Manufacturing Technology and American Machine Tool Distributors Association.

Censuses and annual surveys—The first census of manufactures covered the year 1809. Between 1809 and 1963, a census was conducted at periodic intervals. Since 1967, it has been taken every 5 years (for years ending in “2” and “7”). Results from the 1997 census are presented in this section utilizing the new NAICS (North American Industry Classification System). Data from the 2002 census will be released in 2004 and will appear in the next edition of the *Statistical Abstract*. For additional information see text, Section 15, Business Enterprise, and the Census Bureau Web site at <<http://www.census.gov/epcd/www/NAICS.html>>. Census data either direct reports or estimates from administrative records, are obtained for every manufacturing plant with one paid employee or more.

The *Annual Survey of Manufactures* (ASM), conducted for the first time in 1949, collects data for the years between censuses for the more general measure of manufacturing activity covered in detail by the censuses. The annual survey data are estimates derived from a scientifically selected sample of establishments. The 1999 annual survey is based on a sample of about 55,000 establishments of an approximate total of 230,000. These establishments represent all manufacturing establishments of multiunit companies and all single-establishment manufacturing companies mailed schedules in the 1997 Census of Manufactures. For the current panel of the ASM sample, all establishments of companies with 1997 shipments in manufacturing in excess of \$500 million were included in the survey with certainty. For the remaining portion

of the mail survey, the establishment was defined as the sampling unit. For this portion, all establishments with 250 employees or more and establishments with a very large value of shipments also were included. Therefore, of the 58,000 establishments included in the ASM panel, approximately 33,000 are selected with certainty. These establishments account for approximately 80 percent of total value of shipments in the 1992 census. Smaller establishments in the remaining portion of the mail survey were selected by sample.

Establishments and classification—Each of the establishments covered in the 1997 Economic Census—Manufacturing was classified in 1 of 480 industries (473 manufacturing industries and 7 former manufacturing industries) in accordance with the industry definitions in the 1997 NAICS Manual. In the NAICS system, an industry is generally defined as a group of establishments that have similar production processes. To the extent practical, the system uses supply based or production-oriented concepts in defining industries. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees.

Establishments frequently make products classified both in their industry (primary products) and other industries (secondary products). Industry statistics (employment, payroll, value added by manufacture, value of shipments, etc.) reflect the activities of the establishments, which may make both primary and secondary products. Product statistics, however, represent the output of all establishments without regard for the classification of the producing establishment. For this reason, when relating the industry statistics, especially the value of shipments, to the product statistics, the composition of the industry's output should be considered.

The censuses of manufactures for 1947 through 1992 cover operating manufacturing establishments as defined in the Standard Industrial Classification Manual (SIC), issued by the U.S. Office of Management and Budget (see text, Section 12). The Manual is also used for classifying establishments in the annual surveys. The

comparability of manufactures data over time is affected by changes in the official definitions of industries as presented in the Manual. It is important to note, therefore, that the 1987 edition of the Manual was used for the 1987 and 1992 censuses; and the 1972 edition of the Manual and the 1977 Supplement were used for the 1972 through 1982 censuses. The Manual defines an industry as a number of establishments producing a single product or a closely related group of products. In the manual, an establishment is classified in a particular industry if its production of a product or product group exceeds in value added its production of any other product group. While some establishments produce only the products of the industry in which they are classified, few within an industry specialize to that extent. The statistics on employment, payrolls, value added, inventories, and expenditures, therefore, reflect both the primary and secondary activities of the establishments in that industry. For this reason, care should be exercised in relating such statistics to the total shipments figures of products primary to the industry.

Establishment—Establishment signifies a single physical plant site or factory. It is not necessarily identical to the business unit or company, which may consist of one or more establishments. A company operating establishments at more than one location is required to submit a separate report for each location. An establishment engaged in distinctly different lines of activity and maintaining separate payroll and inventory records is also required to submit separate reports.

Durable goods—Items with a normal life expectancy of 3 years or more. Automobiles, furniture, household appliances, and mobile homes are common examples.

Nondurable goods—Items which generally last for only a short time (3 years or less). Food, beverages, clothing, shoes, and gasoline are common examples.

Statistical reliability—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

No. 984. Gross Domestic Product in Manufacturing in Current and Real (1996) Dollars by Industry: 1990 to 2001

[In billions of dollars (5,803.2 represents 5,803,200,000,000). Data are based on the 1987 Standard Industrial Classification (SIC). Data include nonfactor charges (capital consumption allowances, indirect business taxes, etc.) as well as factor charges against gross product; corporate profits and capital consumption allowances have been shifted from a company to an establishment basis]

Industry ¹	1990	1995	1996	1997	1998	1999	2000	2001
CURRENT DOLLARS								
Gross domestic product, total ¹ . . .	5,803.2	7,400.5	7,813.2	8,318.4	8,781.5	9,274.3	9,824.6	10,082.2
Manufacturing	1,040.6	1,289.1	1,316.0	1,379.6	1,431.5	1,481.3	1,520.3	1,423.0
Durable goods	586.6	729.8	748.4	791.2	830.7	853.8	886.4	812.8
Lumber and wood products	32.2	42.3	39.9	41.2	41.9	44.1	42.1	39.2
Furniture and fixtures	15.6	19.5	20.7	22.7	24.3	25.8	26.1	25.0
Stone, clay, and glass products	25.3	32.4	33.2	37.2	38.7	41.4	40.6	36.7
Primary metal industries	43.2	53.0	50.8	52.6	53.1	50.5	50.2	45.1
Fabricated metal products	69.4	87.2	93.1	97.6	101.7	106.9	109.6	100.8
Industrial machinery	118.2	132.8	136.3	143.2	158.6	152.3	173.1	148.2
Electronic & other electric equipment	105.7	146.9	153.2	165.9	159.2	161.2	162.0	143.1
Motor vehicles and equipment	47.3	98.2	92.2	96.5	111.5	119.4	120.4	111.4
Other transportation equipment	60.5	47.7	51.4	55.5	58.4	65.1	66.3	71.4
Instruments and related products	49.3	47.2	53.7	53.6	57.5	58.2	63.5	61.7
Misc. manufacturing industries	19.8	22.7	23.8	25.2	25.9	28.9	32.5	30.2
Nondurable goods	454.0	559.2	567.6	588.4	600.8	627.5	633.9	610.2
Food and kindred products	96.4	121.1	118.7	123.1	121.8	136.6	127.0	123.7
Tobacco manufactures	11.9	15.1	14.8	15.4	17.3	19.4	21.2	21.1
Textile mill products	22.0	24.8	25.3	25.7	25.8	24.9	23.8	22.1
Apparel and other textile products	25.4	27.3	27.0	26.5	26.0	24.7	24.7	23.3
Paper and allied products	45.0	58.9	55.9	53.8	55.7	56.8	60.2	55.9
Printing and publishing	73.1	80.8	88.2	91.1	95.6	105.4	106.5	100.2
Chemicals and allied products	109.9	150.8	153.6	164.8	164.8	167.3	169.0	163.5
Petroleum and coal products	31.7	29.0	30.2	31.4	32.9	30.4	38.5	40.6
Rubber and misc. plastic products	33.9	46.1	49.7	52.1	56.8	58.7	59.3	56.6
Leather and leather products	4.7	5.3	4.2	4.3	4.1	3.4	3.7	3.3
CHAINED (1996) DOLLARS								
Gross domestic product, total ¹ . . .	6,707.9	7,543.8	7,813.2	8,159.5	8,508.9	8,858.9	9,191.4	9,214.5
Manufacturing	1,102.3	1,284.7	1,316.0	1,387.3	1,444.3	1,513.9	1,585.4	1,490.3
Durable goods	585.1	714.9	748.4	813.0	892.9	949.3	1,044.3	990.1
Lumber and wood products	45.1	41.6	39.9	39.5	40.1	40.9	41.8	39.0
Furniture and fixtures	18.1	20.7	20.7	22.1	22.9	23.7	24.1	22.4
Stone, clay, and glass products	29.4	32.8	33.2	36.6	36.6	37.4	37.2	33.9
Primary metal industries	43.7	49.6	50.8	52.7	54.5	57.0	56.1	53.5
Fabricated metal products	76.1	90.8	93.1	96.2	96.5	97.7	102.7	92.3
Industrial machinery	93.5	124.7	136.3	158.4	195.8	206.7	249.2	222.5
Electronic & other electric equipment	68.6	128.7	153.2	182.2	210.8	249.2	311.8	335.2
Motor vehicles and equipment	68.7	103.2	92.2	97.1	111.6	115.0	117.3	108.5
Other transportation equipment	75.7	49.4	51.4	54.8	56.7	61.7	60.5	62.0
Instruments and related products	68.9	52.6	53.7	49.8	49.0	47.6	51.0	46.1
Misc. manufacturing industries	22.8	23.3	23.8	24.8	24.9	27.4	31.3	28.5
Nondurable goods	520.2	570.3	567.6	574.7	555.5	570.8	558.0	518.3
Food and kindred products	109.5	133.3	118.7	118.1	112.1	120.5	111.2	106.5
Tobacco manufactures	14.5	15.7	14.8	13.9	11.9	6.8	6.2	5.0
Textile mill products	22.8	26.0	25.3	25.0	24.1	23.0	23.2	20.7
Apparel and other textile products	27.3	28.0	27.0	26.5	25.2	22.9	23.3	22.3
Paper and allied products	52.5	52.2	55.9	58.3	56.2	56.1	53.1	49.7
Printing and publishing	102.9	89.2	88.2	86.4	85.6	90.4	90.1	80.8
Chemicals and allied products	131.1	148.0	153.6	164.2	155.2	160.6	162.8	157.8
Petroleum and coal products	22.9	26.9	30.2	25.6	26.4	35.3	29.9	24.6
Rubber and misc. plastic products	34.0	47.0	49.7	53.2	55.6	57.6	61.3	57.0
Leather and leather products	5.2	5.3	4.2	4.2	3.8	3.2	3.6	3.1

¹ For additional industry detail, see Table 660.

Source: U.S. Bureau of Economic Analysis, *National Income and Product Accounts, 1929-97*; and Survey of Current Business, November 2002. See also <<http://www.bea.doc.gov/bea/ARTICLES/2002/11November/1102GDPbyIndustry.pdf>> (released 28 October 2002).

No. 985. Manufacturing—Establishments, Employees, and Annual Payroll by Industry: 2000 and 2001

[114,065 represents 114,065,000. Excludes government employees, railroad employees, self-employed persons, etc. See "General Explanation" in source for definitions and statement on reliability of data. An *establishment* is a single physical location where business is conducted or where services or industrial operations are performed. See Appendix III]

Industry	NAICS code ¹	2000			2001		
		Establishments, number	Number of employees ² (1,000)	Annual payroll (mil. dol.)	Establishments, number	Number of employees ² (1,000)	Annual payroll (mil. dol.)
All industries, total	(X)	7,070,048	114,065	3,879,430	7,095,302	115,061	3,989,086
Manufacturing, total	31-33	354,498	16,474	643,954	352,619	15,950	617,699
Percent of all industries	(X)	5.01	14.44	16.60	4.97	13.86	15.48
Food	311	26,401	1,468	43,773	26,785	1,470	44,085
Beverage & tobacco product	312	2,869	169	7,318	3,212	171	7,258
Textile mills	313	4,449	339	9,491	4,452	308	8,403
Textile product mills	314	6,881	216	5,364	6,966	202	5,059
Apparel manufacturing	315	16,505	510	10,426	16,152	442	9,262
Leather & allied product	316	1,783	69	1,711	1,763	61	1,496
Wood product	321	17,328	598	16,511	17,289	558	15,829
Paper	322	5,790	554	23,291	5,739	533	22,501
Printing & related support activities	323	39,035	813	28,319	37,895	785	27,051
Petroleum & coal products	324	2,210	109	6,386	2,253	104	6,336
Chemical	325	13,426	886	45,610	13,361	870	46,395
Plastics & rubber products	326	16,292	1,057	34,110	15,981	1,003	32,641
Nonmetallic mineral product	327	16,537	524	19,123	16,732	524	19,350
Primary metal	331	6,300	602	25,545	6,684	573	23,642
Fabricated metal product	332	61,144	1,791	64,244	60,791	1,761	61,803
Machinery	333	29,442	1,378	58,387	28,922	1,333	54,714
Computer & electronic product	334	17,148	1,557	90,397	16,764	1,593	84,522
Electrical equip, appliance & component	335	7,041	589	21,853	6,940	575	20,873
Transportation equipment	336	12,766	1,873	88,632	12,627	1,753	83,440
Furniture & related product	337	19,848	640	17,964	20,593	619	17,434
Miscellaneous	339	31,303	732	25,500	30,718	713	25,605

X Not applicable. ¹ North American Industry Classification System, 1997; see text, Section 15. ² Covers full- and part-time employees who are on the payroll in the pay period including March 12.

Source: U.S. Census Bureau, *County Business Patterns*, annual. See also <<http://www.census.gov/prod/2003pubs/01cbp/cbp01-1.pdf>> (issued April 2003).

No. 986. Manufacturing Establishments, Employees, and Annual Payroll by State: 2001

[15,950 represents 15,950,000. Excludes government employees, railroad employees, self-employed persons, etc. See "General Explanation" in source for definitions and statement on reliability of data. An *establishment* is a single physical location where business is conducted or where services or industrial operations are performed. See Appendix III]

State	Establishments	Number of employees ¹ (1,000)	Annual payroll (mil. dol.)	State	Establishments	Number of employees ¹ (1,000)	Annual payroll (mil. dol.)
United States	352,619	15,950	617,699	Missouri	7,261	335	11,318
Alabama	5,200	312	10,202	Montana	1,226	21	646
Alaska	503	11	367	Nebraska	1,934	109	3,361
Arizona	4,937	194	7,917	Nevada	1,722	40	1,464
Arkansas	3,226	229	6,462	New Hampshire	2,249	96	3,819
California	49,022	1,741	75,803	New Jersey	10,872	380	17,283
Colorado	5,449	162	6,569	New Mexico	1,585	37	1,299
Connecticut	5,413	233	11,202	New York	21,499	689	27,241
Delaware	694	42	1,745	North Carolina	10,844	691	21,583
District of Columbia	162	3	92	North Dakota	681	24	762
Florida	15,392	413	14,578	Ohio	17,597	936	37,463
Georgia	8,688	492	16,141	Oklahoma	4,025	163	5,509
Hawaii	940	15	463	Oregon	5,587	198	7,981
Idaho	1,729	67	2,138	Pennsylvania	16,796	780	29,312
Illinois	17,134	820	32,832	Rhode Island	2,185	67	2,333
Indiana	9,131	604	23,471	South Carolina	4,430	326	11,289
Iowa	3,721	238	8,355	South Dakota	922	47	1,401
Kansas	3,240	191	7,302	Tennessee	7,013	449	15,237
Kentucky	4,210	280	10,182	Texas	21,370	948	37,288
Louisiana	3,436	159	6,539	Utah	3,001	120	4,241
Maine	1,866	77	2,705	Vermont	1,180	48	1,825
Maryland	3,936	157	6,792	Virginia	5,804	344	12,574
Massachusetts	9,015	390	18,907	Washington	7,565	316	14,458
Michigan	15,431	756	33,634	West Virginia	1,471	72	2,628
Minnesota	8,146	374	14,846	Wisconsin	9,846	544	20,145
Mississippi	2,815	201	5,674	Wyoming	563	9	321

¹ Covers full- and part-time employees who are on the payroll in the pay period including March 12.

Source: U.S. Census Bureau, *County Business Patterns*, annual. See also <<http://www.census.gov/prod/2003pubs/01cbp/cbp01-1.pdf>> (issued April 2003).

No. 987. Manufactures—Summary by Selected Industry: 2001

[15,879.5 represents 15,879,500. Based on the Annual Survey of Manufactures; see Appendix III]

Industry based on shipments	NAICS code ¹	All employees ²			Production workers ² (1,000)	Value added by manufactures ³ (mil. dol.)	Value of shipments ⁴ (mil. dol.)
		Payroll		Per employee (dol.)			
		Number (1,000)	Total (mil. dol.)				
Manufacturing, total	31-33	15,879.5	593,051	37,347	11,235.1	1,853,929	3,970,500
Food	311	1,504.7	43,586	28,967	1,145.1	193,224	451,386
Grain and oilseed milling	3112	55.4	2,375	42,848	41.2	18,156	46,176
Fruit and vegetable preserving and specialty food	3114	176.8	5,132	29,027	151.5	27,370	52,262
Dairy product	3115	132.2	4,715	35,676	88.1	20,832	65,512
Meat product	3116	493.4	11,950	24,220	427.3	38,051	125,411
Bakeries and tortilla	3118	323.3	9,186	28,410	197.1	31,885	49,133
Other food	3119	148.0	4,801	32,445	106.7	29,926	51,818
Beverage and tobacco product	312	177.5	7,023	39,562	95.9	77,735	118,786
Beverage	3121	150.8	5,632	37,346	76.3	31,643	65,688
Tobacco	3122	26.7	1,391	52,074	19.6	46,092	53,098
Textile mills	313	293.9	8,040	27,353	247.5	18,842	45,681
Textile product mills	314	209.7	5,051	24,091	170.1	12,852	31,971
Apparel	315	456.5	9,205	20,165	369.3	24,809	54,598
Cut and sew apparel	3152	335.8	6,670	19,865	269.2	19,500	43,563
Leather and allied product	316	61.7	1,483	24,010	49.1	4,178	8,834
Wood product	321	555.9	15,431	27,759	458.9	33,130	87,250
Sawmills and wood preservation	3211	124.4	3,481	27,978	105.6	7,484	25,924
Other wood product	3219	316.1	8,435	26,685	258.0	18,060	41,689
Paper	322	530.2	22,188	41,845	407.8	73,036	155,846
Pulp, paper, and paperboard mills	3221	170.7	9,179	53,783	134.2	37,279	71,987
Converted paper product	3222	359.6	13,010	36,180	273.6	35,757	83,859
Printing and related support activities	323	799.2	27,158	33,980	574.2	60,483	100,792
Printing and related support activities	3231	799.2	27,158	33,980	574.2	60,483	100,792
Petroleum and coal products	324	101.5	5,830	57,465	67.5	47,346	219,075
Petroleum and coal products	3241	101.5	5,830	57,465	67.5	47,346	219,075
Chemical	325	875.0	43,800	50,060	499.2	226,615	438,410
Basic chemical	3251	183.2	10,582	57,754	106.0	37,576	104,430
Resin, syn. rubber, and artif. & syn. fibers	3252	97.6	5,180	53,078	67.3	22,070	60,638
Pharmaceutical and medicine	3254	251.3	13,396	53,308	120.4	91,697	130,021
Soap, cleaning compound, and toilet preparation	3256	120.2	4,708	39,155	74.7	34,814	57,995
Other chemical product	3259	115.5	5,173	44,797	70.2	18,355	38,317
Plastics and rubber products	326	1,028.1	32,539	31,651	810.9	86,558	170,717
Plastics product	3261	834.5	25,588	30,664	657.8	69,475	137,276
Rubber product	3262	193.6	6,951	35,904	153.1	17,083	33,441
Nonmetallic mineral product	327	507.3	18,147	35,771	394.6	53,195	94,861
Cement and concrete product	3273	222.3	7,927	35,653	168.7	23,446	43,852
Primary metal	331	532.8	22,199	41,664	420.2	53,111	138,245
Iron and steel mills and ferroalloy	3311	130.3	6,700	51,421	102.0	14,749	44,896
Alumina and aluminum production and processing	3313	76.4	3,105	40,661	59.4	8,600	28,094
Fabricated metal product	332	1,724.7	59,569	34,539	1,296.0	138,793	253,113
Architectural and structural metals	3323	403.5	13,314	32,996	296.8	30,921	61,666
Machine shops, turned product & screw, nut, bolt	3327	417.6	14,739	35,296	321.6	29,153	44,982
Other fabricated metal product	3329	304.5	11,140	36,581	220.3	28,552	49,741
Machinery	333	1,314.7	52,844	40,194	844.1	131,103	266,553
Agriculture, construction, and mining machinery	3331	185.8	7,271	39,125	127.2	20,929	49,859
Industrial machinery	3332	190.5	8,533	44,786	105.1	17,448	35,211
Metalworking machinery	3335	217.7	9,055	41,601	153.0	16,030	26,684
Engine, turbine, and power transmission equipment	3336	106.8	4,811	45,066	71.1	18,962	37,230
Other general-purpose machinery	3339	328.2	13,056	39,774	198.2	30,065	62,107
Computer and electronic product	334	1,598.8	77,137	48,248	779.9	223,718	429,471
Computer and peripheral equipment	3341	193.1	9,165	47,461	62.3	34,394	89,528
Communications equipment	3342	301.7	17,089	56,636	150.2	50,757	102,004
Semiconductor & other elect. components	3344	566.9	23,944	42,240	355.3	71,289	124,215
Navigational, measuring, medical, control instruments	3345	468.1	24,461	52,254	192.8	60,035	97,169
Electrical equipment, appliance, & component	335	556.6	19,466	34,970	395.7	56,304	114,067
Electrical equipment	3353	186.8	6,660	35,662	124.7	17,340	33,934
Other electrical equipment & component	3359	209.1	7,483	35,779	145.5	22,563	45,336
Transportation equipment	336	1,717.6	80,416	46,818	1,246.5	227,675	602,496
Motor vehicle	3361	214.0	12,647	59,102	186.2	54,173	216,128
Motor vehicle parts	3363	736.0	31,501	42,800	584.6	74,532	186,839
Aerospace product and parts	3364	433.1	24,542	56,660	220.8	71,839	134,867
Furniture and related product	337	608.0	16,950	27,880	481.5	39,849	72,247
Miscellaneous	339	725.1	24,989	34,463	481.2	71,372	116,101
Medical equipment and supplies	3391	305.1	12,171	39,890	190.3	40,157	57,766
Other miscellaneous	3399	420.0	12,818	30,521	290.9	31,215	58,435

¹ North American Industry Classification System, 1997; see text, Section 15. ² Includes employment and payroll at administrative offices and auxiliary units. All employees represents the average of production workers plus all other employees for the payroll period ended nearest the 12th of March. Production workers represents the average of the employment for the payroll periods ended nearest the 12th of March, May, August, and November. ³ Adjusted value added; takes into account (a) value added by merchandising operations (that is, difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) net change in finished goods and work-in-process inventories between beginning and end of year. ⁴ Includes extensive and unmeasurable duplication from shipments between establishments in the same industry classification.

Source: U.S. Census Bureau, Annual Survey of Manufactures, *Statistics for Industry Groups and Industries*, Series M01(AS)-1. See also <<http://www.census.gov/prod/2003pubs/m01as-1.pdf>> (issued January 2003).

No. 988. Manufactures—Summary by State: 2001

[15,879.5 represents 15,879,500. Sum of state totals may not add to U.S. total because U.S. and state figures were independently derived. See Appendix III]

State	All employees ¹			Production workers ¹		Value added by manufactures ²		
	Payroll			Total (1,000)	Wages (mil. dol.)	Total (mil. dol.)	Per production worker (dol.)	Value of ship- ments ³ (mil. dol.)
	Number (1,000)	Total (mil. dol.)	Per employee (dol.)					
United States	15,879.5	593,051	37,347	11,235.1	342,990	1,853,929	165,012	3,970,500
Alabama	315.1	9,890	31,391	247.2	6,708	27,844	112,653	67,172
Alaska	12.6	409	32,426	10.1	297	1,182	116,523	3,987
Arizona	186.4	7,367	39,527	114.6	3,146	28,430	248,027	42,168
Arkansas	227.0	6,363	28,037	184.6	4,538	19,868	107,611	46,530
California	1,792.2	72,189	40,279	1,147.6	33,383	219,584	191,347	414,762
Colorado	163.1	6,541	40,112	108.1	3,317	17,799	164,582	35,627
Connecticut	229.8	10,557	45,936	137.2	4,807	27,595	201,099	47,055
Delaware	38.0	1,458	38,402	28.4	928	6,621	232,937	16,664
District of Columbia	1.8	90	50,984	1.3	51	93	69,147	178
Florida	401.3	13,591	33,868	268.1	6,757	39,974	149,095	76,541
Georgia	484.0	15,721	32,483	371.8	10,281	57,578	154,882	127,624
Hawaii	14.4	447	31,108	9.1	225	907	100,159	3,196
Idaho	63.9	2,126	33,281	47.6	1,424	3,670	77,084	15,076
Illinois	811.3	31,498	38,826	559.5	17,577	94,124	168,233	196,449
Indiana	597.7	23,155	38,739	448.7	15,195	72,122	160,749	154,264
Iowa	235.9	8,221	34,854	176.7	5,221	29,636	167,718	65,428
Kansas	193.8	7,093	36,600	140.0	4,366	21,008	150,069	53,031
Kentucky	276.3	10,002	36,196	214.1	6,734	31,722	148,156	84,180
Louisiana	156.9	6,335	40,376	115.9	4,191	22,545	194,532	85,488
Maine	77.7	2,832	36,466	57.7	1,822	7,880	136,654	15,066
Maryland	162.4	6,917	42,601	103.9	3,324	18,757	180,611	36,038
Massachusetts	376.7	16,623	44,128	226.7	7,535	44,447	196,045	79,851
Michigan	749.5	32,028	44,068	563.8	22,179	86,262	153,010	209,003
Minnesota	376.7	14,519	38,549	249.2	7,709	38,545	154,675	82,304
Mississippi	197.8	5,559	28,110	158.3	3,838	15,573	98,400	38,560
Missouri	346.6	12,226	35,269	252.3	7,432	40,284	159,688	89,682
Montana	20.4	619	30,384	15.0	417	2,091	139,673	5,423
Nebraska	105.0	3,348	31,889	82.9	2,282	11,962	144,213	31,133
Nevada	40.4	1,518	37,629	27.6	791	3,844	139,224	7,581
New Hampshire	96.7	3,795	39,234	67.1	2,218	8,621	128,506	16,975
New Jersey	379.5	15,534	40,931	253.5	8,167	50,754	200,228	98,230
New Mexico	32.7	1,147	35,068	23.4	735	6,632	282,930	11,464
New York	707.2	26,380	37,300	482.1	14,217	78,484	162,782	146,455
North Carolina	693.7	21,436	30,902	531.7	13,622	91,184	171,497	167,124
North Dakota	23.4	726	31,063	16.7	439	2,669	159,523	6,517
Ohio	923.5	36,190	39,186	682.1	23,431	107,440	157,514	241,902
Oklahoma	161.7	5,350	33,093	117.7	3,341	18,059	153,390	40,063
Oregon	199.2	7,200	36,148	142.4	4,369	22,027	154,646	43,271
Pennsylvania	768.7	28,512	37,093	544.5	16,896	87,984	161,581	178,613
Rhode Island	70.0	2,396	34,216	46.3	1,260	5,877	126,922	10,958
South Carolina	312.4	10,694	34,236	240.5	6,951	35,017	145,574	78,738
South Dakota	39.6	1,115	28,191	29.4	729	4,558	154,839	11,093
Tennessee	441.4	14,531	32,923	335.0	9,387	46,349	138,337	104,109
Texas	950.4	35,377	37,222	647.8	19,410	120,086	185,381	321,361
Utah	121.8	4,174	34,263	82.2	2,341	11,783	143,270	25,908
Vermont	45.8	1,740	37,963	30.1	849	5,078	168,881	8,926
Virginia	327.4	11,268	34,418	245.9	7,076	53,043	215,686	92,874
Washington	309.2	12,603	40,759	194.6	6,922	38,193	196,236	89,280
West Virginia	67.7	2,519	37,207	50.4	1,643	7,202	142,804	16,201
Wisconsin	544.3	19,817	36,406	396.6	12,302	59,585	150,257	126,542
Wyoming	9.0	305	33,958	6.9	213	1,358	197,002	3,835

¹ Includes employment and payroll at administrative offices and auxiliary units. All employees represents the average of production workers plus all other employees for the payroll period ended nearest the 12th of March. Production workers represents the average of the employment for the payroll periods ended nearest the 12th of March, May, August, and November. ² Adjusted value added; takes into account (a) value added by merchandising operations (that is, difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) net change in finished goods and work-in-process inventories between beginning and end of year. ³ Includes extensive and unmeasurable duplication from shipments between establishments in the same industry classification.

Source: U.S. Census Bureau, Annual Survey of Manufactures, *Geographic Area Statistics*, Series M01(AS)-3. See also <<http://www.census.gov/prod/2003pubs/m01as-3.pdf>> (issued January 2003).

No. 989. Manufacturers' E-Commerce Shipments by Industry: 2000 and 2001

[4,208,582 represents \$4,208,582,000,000. Based on the Annual Survey of Manufactures; subject to sampling variability. E-commerce is the value of goods and services sold over computer-mediated networks (open or proprietary)]

Industry	NAICS code	2000				2001			
		E-commerce				E-commerce			
		Shipments, total (mil. dol.)	Shipments, total (mil. dol.)	Percent of total shipments	Percent distribution	Shipments, total (mil. dol.)	Shipments, total (mil. dol.)	Percent of total shipments	Percent distribution
Manufacturing, total	31-33	4,208,582	755,807	18.0	100.0	3,970,500	725,149	18.3	100.0
Food products	311	435,230	54,837	12.6	7.3	451,386	53,556	11.9	7.4
Beverage and tobacco	312	111,692	42,862	38.4	5.7	118,786	45,665	38.4	6.3
Textile mills	313	52,112	5,214	10.0	0.7	45,681	4,435	9.7	0.6
Textile product mills	314	33,654	5,800	17.2	0.8	31,971	7,409	23.2	1.0
Apparel	315	60,339	12,063	20.0	1.6	54,598	10,652	19.5	1.5
Leather and allied products	316	9,647	2,122	22.0	0.3	8,834	1,438	16.3	0.2
Wood products	321	93,669	5,957	6.4	0.8	87,250	4,919	5.6	0.7
Paper	322	165,297	20,617	12.5	2.7	155,846	20,208	13.0	2.8
Printing and related support activities	323	104,396	5,966	5.7	0.8	100,792	5,885	5.8	0.8
Petroleum and coal products	324	235,134	16,647	7.1	2.2	219,075	16,312	7.4	2.2
Chemicals	325	449,159	52,974	11.8	7.0	438,410	54,515	12.4	7.5
Plastics and rubber products	326	178,236	28,400	15.9	3.8	170,717	27,409	16.1	3.8
Nonmetallic mineral products	327	97,329	8,174	8.4	1.1	94,861	7,895	8.3	1.1
Primary metals	331	156,598	15,403	9.8	2.0	138,245	14,274	10.3	2.0
Fabricated metal products	332	268,212	25,798	9.6	3.4	253,113	24,168	9.5	3.3
Machinery	333	291,548	40,441	13.9	5.4	266,553	35,799	13.4	4.9
Computer and electronic products, electrical equipment, appliances, and components	334	510,639	77,933	15.3	10.3	429,471	73,232	17.1	10.1
Transportation equipment	335	125,443	30,003	23.9	4.0	114,067	28,019	24.6	3.9
Furniture and related products	336	639,861	281,396	44.0	37.2	602,496	264,368	43.9	36.5
Miscellaneous	337	75,107	8,400	11.2	1.1	72,147	9,347	13.0	1.3
	339	115,280	14,800	12.8	2.0	116,201	15,644	13.5	2.2

¹ North American Industry Classification System, 1997; see text, Section 15.

Source: U.S. Census Bureau, Internet site <<http://www.census.gov/eos/www/papers/estatstext.pdf>> and <<http://www.census.gov/eos/www/papers/2001/2001estatstables.pdf>> (released 19 March 2003).

No. 990. Manufacturing Employer Costs for Employee Compensation Per Hour Worked: 1990 to 2003

[As of March, for private industry workers. Based on a sample of establishments from the National Compensation Survey, see Appendix III and source for details. See also Table 646, Section 12]

Compensation component	Cost (dol.)					Percent distribution				
	1990	2000	2001	2002	2003	1990	2000	2001	2002	2003
Total compensation	17.33	23.41	24.30	25.20	26.02	100.0	100.0	100.0	100.0	100.0
Wages and salaries	11.86	16.01	16.66	17.19	17.43	68.4	68.4	68.6	68.2	67.0
Total benefits	5.47	7.40	7.64	8.01	8.59	31.6	31.6	31.4	31.8	33.0
Paid leave	1.31	1.74	1.85	1.91	1.97	7.6	7.4	7.6	7.6	7.6
Vacation	0.67	0.86	0.92	0.97	1.00	3.9	3.7	3.8	3.8	3.8
Holiday	0.48	0.65	0.68	0.70	0.73	2.8	2.8	2.8	2.8	2.8
Sick	0.12	0.13	0.15	0.14	0.16	0.7	0.6	0.6	0.6	0.6
Other	0.05	0.10	0.10	0.10	0.10	0.3	0.4	0.4	0.4	0.4
Supplemental pay	0.65	1.04	1.09	1.13	1.23	3.8	4.4	4.5	4.5	4.7
Premium pay	0.34	0.58	0.58	0.56	0.60	2.0	2.5	2.4	2.2	2.3
Nonproduction bonuses	0.22	0.36	0.41	0.46	0.51	1.3	1.5	1.7	1.8	2.0
Shift pay	0.09	0.10	0.11	0.11	0.11	0.5	0.4	0.5	0.4	0.4
Insurance	1.37	1.85	1.93	2.11	2.27	7.9	7.9	7.9	8.4	8.7
Health insurance	(NA)	1.69	1.75	1.92	2.08	(NA)	7.2	7.2	7.6	8.0
Retirement and savings	0.56	0.75	0.75	0.74	0.86	3.2	3.2	3.1	2.9	3.3
Defined benefit	(NA)	0.34	0.29	0.30	0.41	(NA)	1.5	1.2	1.2	1.6
Defined contributions	(NA)	0.41	0.46	0.44	0.45	(NA)	1.8	1.9	1.7	1.7
Legally required	1.54	1.92	1.95	2.05	2.18	8.9	8.2	8.0	8.1	8.4
Social Security	1.02	1.38	1.42	1.48	1.51	5.9	5.9	5.8	5.9	5.8
Federal unemployment	0.03	0.03	0.03	0.03	0.03	0.2	0.1	0.1	0.1	0.1
State unemployment	0.12	0.11	0.10	0.11	0.13	0.7	0.5	0.4	0.4	0.5
Workers compensation	0.36	0.40	0.40	0.43	0.51	2.1	1.7	1.6	1.7	2.0
Other benefits	0.04	0.09	0.07	0.07	0.08	0.2	0.4	0.3	0.3	0.3

NA Not available. ¹ Includes severance pay, and supplemental unemployment benefits.

Source: U.S. Bureau of Labor Statistics, *Employer Costs for Employee Compensation Historical Listing, annual, 1986-2001*, and *Employer Costs for Employee Compensation, March 2003*. See also <<ftp://ftp.bls.gov/pub/special.requests/ocwcc/ect/ececrise.pdf>> (issued 19 June 2002) and <<http://www.bls.gov/news.release/pdf/ecec.pdf>> (issued 11 June 2003).

No. 991. Average Hourly Earnings of Production Workers in Manufacturing Industries by State: 2001 and 2002

[In dollars. Based on data on the North American Classification System, 1997; see text, Section 12 and 15]

State	2001	2002	State	2001	2002
United States	14.76	15.29	Missouri	16.11	16.79
Alabama	12.76	13.10	Montana	14.03	14.43
Alaska	11.70	13.24	Nebraska	13.64	14.05
Arizona	13.80	14.16	Nevada	13.79	14.62
Arkansas	12.90	13.30	New Hampshire	13.98	14.20
California	14.69	14.89	New Jersey	14.74	15.20
Colorado	14.72	15.85	New Mexico	13.27	13.43
Connecticut	16.42	17.25	New York	16.24	16.74
Delaware	16.56	16.62	North Carolina	12.81	13.18
District of Columbia ¹	15.14	15.39	North Dakota	12.77	13.17
Florida	12.68	13.30	Ohio	16.79	17.49
Georgia	12.50	13.39	Oklahoma	13.66	14.12
Hawaii	13.18	13.07	Oregon	14.74	15.06
Idaho	13.85	13.80	Pennsylvania	14.37	14.75
Illinois	14.66	14.99	Rhode Island	12.68	12.75
Indiana	16.42	17.16	South Carolina	13.79	14.00
Iowa	14.67	15.31	South Dakota	12.11	12.60
Kansas	15.48	15.98	Tennessee	12.88	13.15
Kentucky	15.44	15.73	Texas	14.04	13.93
Louisiana	16.18	17.03	Utah	13.76	14.12
Maine	14.71	15.55	Vermont	14.18	14.33
Maryland	14.56	15.21	Virginia	14.49	15.25
Massachusetts	15.75	16.25	Washington	17.96	18.15
Michigan	19.45	20.48	West Virginia	14.80	15.40
Minnesota	14.76	15.06	Wisconsin	15.44	15.86
Mississippi	11.93	12.32	Wyoming	17.26	17.73

¹ Washington PMSA (primary metropolitan statistical area).

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, May 2003 issue.

No. 992. Manufacturing Full-Time Equivalent Employees and Wages by Industry: 1990 to 2001

[(18,679 represents 18,679,000).

Industry	SIC ¹ code	Full-time equivalent (FTE) employees (1,000)				Wage and salary accruals per FTE worker (dol.)			
		1990	1995	2000	2001	1990	1995	2000	2001
Manufacturing, total	(X)	18,679	18,190	18,159	17,319	30,054	35,779	45,675	45,580
Durable goods	(X)	10,959	10,561	11,004	10,445	31,658	37,660	47,930	47,409
Lumber & wood products	24	725	772	827	783	21,712	25,110	30,005	30,978
Furniture & fixtures	25	493	502	546	510	21,404	25,048	30,694	31,465
Stone, clay, & glass products	32	550	530	571	560	28,342	33,283	40,718	40,900
Primary metal industries	33	749	697	694	640	33,637	40,067	45,493	45,808
Fabricated metal products	34	1,398	1,421	1,523	1,439	28,248	32,927	38,305	39,096
Industrial machinery & equipment	35	2,053	2,051	2,080	1,973	34,030	40,063	54,703	51,717
Electronic, other electric equipment	36	1,664	1,607	1,699	1,604	31,055	38,922	57,307	54,729
Motor vehicles & equipment	371	816	961	1,013	934	38,202	46,658	55,296	54,783
Other transportation equipment	372-9	1,171	809	828	803	37,348	44,611	51,877	54,315
Instruments & related products	38	975	827	831	828	35,896	44,654	58,957	58,347
Misc. manufacturing industries	39	365	384	392	371	24,468	28,219	34,635	36,356
Nondurable goods	(X)	7,720	7,629	7,155	6,874	27,777	33,176	42,207	42,801
Food & kindred products	20	1,596	1,642	1,661	1,659	25,909	30,139	35,990	36,755
Tobacco products	21	50	41	34	33	40,860	53,854	68,265	74,667
Textile mill products	22	682	654	528	467	20,217	23,985	29,394	29,957
Apparel & other textile products	23	1,001	919	597	540	16,174	18,800	25,268	25,944
Paper & allied products	26	687	685	649	622	33,514	39,458	46,462	47,265
Printing & publishing	27	1,474	1,450	1,463	1,419	28,888	34,539	43,254	43,533
Chemicals & allied products	28	1,071	1,027	1,024	1,005	40,949	51,054	68,311	66,825
Petroleum & coal products	29	155	142	125	123	44,974	54,739	64,560	67,618
Rubber & misc. plastics products	30	872	963	1,003	945	25,500	29,867	35,623	36,199
Leather & leather products	31	132	106	71	61	18,189	22,321	29,606	31,459

X Not applicable. ¹ Based on the Standard Industrial Classification system, 1987.

Source: U.S. Bureau of Economic Analysis, *National Income and Product Accounts, 1929-97*; and *Survey of Current Business*, November 2002. See also <<http://www.bea.doc.gov/bea/ARTICLES/2002/11November/1102GDPbyIndustry.pdf>> (issued November 2002).

No. 993. Manufacturers' Shipments, Inventories, and New Orders: 1992 to 2002

[In billions of dollars (2,904 represents 2,904,000,000,000), except ratio. Based on a sample survey; for methodology, see publication cited below. These data are now on a NAICS (North American Industry Classification System, 1997) basis and not comparable to previous data, which were based on the Standard Industrial Classification system. See text, Section 15]

Year	Shipments	Inventories (Dec. 31) ¹	Ratio of inventories to shipments ²	New orders (Dec. 31)	Unfilled orders (Dec. 31)
1992	2,904	370	1.57	(NA)	448
1993	3,020	371	1.51	2,960	422
1994	3,238	391	1.48	3,200	431
1995	3,480	415	1.47	3,427	443
1996	3,597	421	1.44	3,567	485
1997	3,835	433	1.39	3,780	508
1998	3,900	439	1.38	3,808	492
1999	4,032	453	1.38	3,957	501
2000	4,209	470	1.37	4,161	545
2001	3,970	442	1.37	3,875	513
2002	3,892	434	1.37	3,801	481

NA Not available. ¹ Inventories are stated at current cost. ² Ratio based on December seasonally adjusted data.

Source: U.S. Census Bureau, Current Industrial Reports, *Manufacturers' Shipments, Inventories, and Orders: 1992-2002*, Series M3-1(02). See also <<http://www.census.gov/prod/2003pubs/m3-02.pdf>> (released August 2003).

No. 994. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments by Industry Group: 1996 to 2002

[Based on a sample survey; for methodology, see publication cited below. These data are on a NAICS (North American Industry Classification System, 1997) basis and not comparable to previous data, which were based on the Standard Industrial Classification system. See text, Section 15]

Industry	1996	1997	1998	1999	2000	2001	2002
INVENTORIES TO SHIPMENTS RATIO							
All manufacturing industries	1.44	1.39	1.38	1.38	1.37	1.37	1.37
Durable goods	1.65	1.57	1.56	1.53	1.55	1.57	1.53
Wood products	1.28	1.26	1.26	1.26	1.32	1.34	1.33
Nonmetallic mineral products	1.29	1.25	1.17	1.17	1.23	1.21	1.29
Primary metals	1.65	1.60	1.59	1.69	1.68	1.67	1.67
Fabricated metals	1.68	1.60	1.55	1.56	1.55	1.55	1.51
Machinery	2.12	2.04	2.01	2.05	2.08	2.06	2.04
Computers and electronic products	1.53	1.51	1.41	1.42	1.55	1.59	1.57
Electrical equipment, appliances, and components	1.59	1.51	1.45	1.42	1.44	1.47	1.47
Transportation equipment	1.59	1.44	1.57	1.42	1.34	1.39	1.31
Furniture and related products	1.49	1.43	1.34	1.35	1.35	1.32	1.34
Miscellaneous products	2.02	1.92	1.85	1.89	1.90	1.87	1.83
Non-durable goods	1.17	1.16	1.14	1.18	1.14	1.13	1.18
Food products	0.88	0.85	0.82	0.86	0.88	0.85	0.87
Beverages and tobacco products	1.58	1.71	1.63	1.55	1.51	1.47	1.58
Textile mills	1.45	1.41	1.45	1.52	1.49	1.48	1.38
Textile product mills	1.72	1.76	1.63	1.62	1.76	1.83	1.72
Apparel	1.64	1.71	1.75	1.89	1.89	1.68	1.58
Leather and allied products	2.06	1.99	2.05	2.18	2.13	2.10	1.91
Paper products	1.20	1.21	1.15	1.16	1.11	1.16	1.17
Printing	0.89	0.88	0.80	0.81	0.79	0.77	0.78
Petroleum and coal products	0.88	0.82	0.84	0.90	0.71	0.74	0.90
Basic chemicals	1.35	1.31	1.31	1.38	1.40	1.39	1.44
Plastics and rubber products	1.27	1.22	1.19	1.20	1.21	1.18	1.30
UNFILLED ORDERS TO SHIPMENTS RATIO							
All manufacturing industries	1.63	1.61	1.53	1.51	1.57	1.56	1.50
Durable goods	2.96	2.87	2.67	2.61	2.78	2.86	2.74
Primary metals	1.81	1.94	1.56	1.69	1.45	1.47	2.06
Fabricated metals	1.99	2.08	2.00	2.02	2.02	1.93	5.14
Machinery	2.62	2.60	2.40	2.50	2.51	2.46	3.84
Computers and electronic products	2.65	2.49	2.57	2.93	3.07	3.56	5.69
Electrical equipment, appliances, and components	1.61	1.65	1.56	1.78	1.75	1.54	0.66
Transportation equipment	6.09	5.59	5.00	4.24	4.93	5.03	7.52
Furniture and related products	1.05	1.38	1.19	1.27	1.14	1.09	0.63
Miscellaneous products	0.32	0.37	0.46	0.49	0.62	0.44	0.09

Source: U.S. Census Bureau, Current Industrial Reports, *Manufacturers' Shipments, Inventories, and Orders: 1992-2002*, Series M3-1(02). See also <<http://www.census.gov/prod/2003pubs/m3-02.pdf>> (released August 2003).

No. 995. Value of Manufacturers' Shipments, Inventories, and New Orders by Industry: 1996 to 2002

[In millions of dollars (3,597,188 represents \$3,597,188,000,000). Based on a sample survey; for methodology, see publication cited below. These data are on a NAICS (North American Industry Classification System, 1997) basis and not comparable to previous data, which were based on the Standard Industrial Classification system. See text, Section 15]

Industry	1996	1997	1998	1999	2000	2001	2002
SHIPMENTS							
All manufacturing industries	3,597,188	3,834,699	3,899,813	4,031,887	4,208,584	3,970,499	3,891,753
Durable goods	1,978,597	2,147,384	2,231,588	2,326,736	2,373,688	2,174,406	2,131,404
Wood products	81,827	88,470	91,175	97,311	93,669	87,250	87,652
Nonmetallic mineral products.	81,308	86,465	92,501	96,153	97,329	94,861	88,222
Primary metals	157,638	168,118	166,109	156,648	156,598	138,246	135,930
Fabricated metals	222,995	242,812	253,720	257,071	268,213	253,113	252,232
Machinery	257,459	270,687	280,651	276,904	291,548	266,554	255,651
Computers and electronic products.	399,516	439,380	443,768	467,059	510,639	429,471	392,026
Electrical equipment, appliances, and components	105,283	112,116	116,024	118,313	125,443	114,068	103,673
Transportation equipment	516,030	575,307	612,882	676,328	639,861	602,495	624,129
Furniture and related products.	61,156	64,299	69,616	72,659	75,107	72,147	69,999
Miscellaneous products	95,385	99,730	105,142	108,290	115,281	116,201	121,890
Nondurable goods	1,618,591	1,687,315	1,668,225	1,705,151	1,834,896	1,796,093	1,760,349
Food products	404,173	421,737	428,479	426,001	435,229	451,385	450,183
Beverages and tobacco products	94,033	96,971	102,359	106,920	111,692	118,786	109,832
Textile mills	59,796	58,707	57,416	54,306	52,112	45,681	43,170
Textile product mills	28,515	31,052	31,137	32,689	33,654	31,971	34,232
Apparel	64,237	68,018	64,932	62,305	60,339	54,598	53,621
Leather and allied products	10,032	10,877	10,186	9,653	9,647	8,834	10,408
Paper products	152,860	150,296	154,984	156,915	165,298	155,845	151,530
Printing	95,072	97,485	100,297	101,536	104,396	100,792	97,968
Petroleum and coal products	174,181	177,394	137,957	162,620	235,134	219,074	206,879
Basic chemicals	385,919	415,617	416,742	420,321	449,159	438,410	424,143
Plastics and rubber products	149,773	159,161	163,736	171,885	178,236	170,717	178,383
INVENTORIES (Dec. 31)							
All manufacturing industries	420,680	433,451	438,845	452,803	470,084	441,527	433,756
Durable goods	265,170	273,330	282,698	288,362	298,232	275,855	264,446
Wood products	8,879	9,441	9,684	10,289	10,329	9,664	9,566
Nonmetallic mineral products.	8,560	8,840	8,877	9,279	9,799	9,440	9,306
Primary metals	21,945	22,728	22,305	22,309	22,199	19,502	19,144
Fabricated metals	30,611	31,776	32,215	32,800	34,085	32,145	31,227
Machinery	43,869	44,490	45,728	46,500	49,151	44,532	42,296
Computers and electronic products.	48,997	53,045	50,066	52,838	63,024	54,598	49,287
Electrical equipment, appliances, and components	13,342	13,530	13,503	13,510	14,505	13,488	12,234
Transportation equipment	65,927	66,414	77,014	76,781	69,199	67,188	65,769
Furniture and related products.	7,426	7,527	7,599	7,983	8,261	7,765	7,632
Miscellaneous products	15,614	15,539	15,707	16,523	17,680	17,533	17,985
Nondurable goods	155,510	160,121	156,147	164,441	171,852	165,672	169,310
Food products	29,751	30,152	29,419	30,650	31,882	31,865	32,534
Beverages and tobacco products	12,731	14,188	14,294	14,167	14,331	14,855	14,717
Textile mills	6,972	6,640	6,684	6,648	6,243	5,411	4,759
Textile product mills	3,898	4,331	4,024	4,219	4,698	4,648	4,691
Apparel	8,397	9,267	9,114	9,454	9,170	7,363	6,784
Leather and allied products	1,640	1,718	1,667	1,675	1,634	1,479	1,580
Paper products	15,120	15,042	14,688	15,034	15,205	14,950	14,621
Printing	6,529	6,621	6,212	6,394	6,445	6,046	5,985
Petroleum and coal products	12,087	11,492	9,102	11,375	12,840	12,479	14,302
Basic chemicals	42,782	44,691	44,943	47,806	51,623	50,052	50,363
Plastics and rubber products	15,603	15,979	16,000	17,019	17,781	16,524	18,974
NEW ORDERS							
All manufacturing industries	3,567,384	3,779,835	3,808,143	3,957,242	4,161,472	3,875,329	3,800,930
Durable goods	1,948,793	2,092,520	2,139,918	2,252,091	2,326,576	2,079,236	2,040,581
Wood products	81,827	88,470	91,175	97,311	93,669	87,250	87,652
Paper products	81,308	86,465	92,501	96,153	97,329	94,861	88,222
Primary metals	158,066	171,407	160,743	156,968	153,625	136,291	134,089
Fabricated metals	227,447	247,839	253,847	258,116	270,021	248,872	249,408
Machinery	258,405	272,998	278,100	278,277	294,608	260,392	244,559
Computers and electronic products.	327,288	363,635	372,433	402,216	436,415	363,049	325,378
Electrical equipment, appliances, and components	104,837	113,411	115,711	120,774	126,196	110,628	103,013
Transportation equipment	552,024	581,780	600,205	660,215	663,326	591,756	617,098
Furniture and related products.	61,499	66,256	69,098	73,393	74,532	71,614	68,959
Miscellaneous products	96,092	100,259	106,105	108,668	116,855	114,523	122,203
Nondurable goods	1,618,591	1,687,315	1,668,225	1,705,151	1,834,896	1,796,093	1,760,349

Source: U.S. Census Bureau, Current Industrial Reports, *Manufacturers' Shipments, Inventories, and Orders: 1992-2002*, Series M3-1(02). See also <<http://www.census.gov/prod/2003pubs/m3-02.pdf>> (released August 2003).

No. 996. Value of Manufactures' Shipments, Inventories, and New Orders by Market Grouping: 1996 to 2002

[In millions of dollars (3,597,188 represents \$3,597,188,000,000). Based on a sample survey; for methodology, see publication cited below. These data are on a NAICS (North American Industry Classification System, 1997) basis and not comparable to previous data, which were based on the Standard Industrial Classification system. See text, Section 15]

Market grouping	1996	1997	1998	1999	2000	2001	2002
SHIPMENTS							
All manufacturing industries	3,597,188	3,834,699	3,899,813	4,031,887	4,208,584	3,970,499	3,891,753
Consumer goods	1,304,283	1,369,992	1,364,326	1,438,519	1,514,377	1,493,707	1,472,647
Consumer durable goods	339,730	371,669	385,918	426,337	405,308	380,734	396,590
Consumer nondurable goods	964,553	998,323	978,408	1,012,182	1,109,069	1,112,973	1,076,057
Aircraft and parts	80,582	100,126	116,812	120,242	111,658	118,226	111,726
Defense aircraft and parts	29,693	27,472	26,938	27,719	24,560	27,928	35,127
Nondefense aircraft and parts	50,889	72,654	89,874	92,523	87,098	90,298	76,599
Construction materials and supplies	371,401	399,880	418,756	434,138	444,812	424,517	419,400
Motor vehicles and parts	387,394	421,573	439,590	498,716	471,180	427,175	450,136
Computers and related products	93,926	110,055	114,482	113,162	110,242	89,529	81,449
Information technology industries	311,028	349,846	362,564	374,384	399,751	353,237	319,391
Nondefense capital goods	630,932	702,971	747,046	768,799	808,345	727,980	673,223
Excluding aircraft	605,295	665,074	695,717	713,042	757,617	677,991	634,549
Defense capital goods	73,703	76,261	74,690	70,955	67,051	74,019	79,825
Durables excluding capital goods	1,273,962	1,368,152	1,409,852	1,486,982	1,498,292	1,372,407	1,378,356
INVENTORIES (Dec. 31)							
All manufacturing industries	420,680	433,451	438,845	452,803	470,084	441,527	433,756
Consumer goods	115,751	118,980	116,715	123,218	129,478	126,855	129,445
Consumer durable goods	25,212	25,251	25,137	26,307	27,438	25,704	26,289
Consumer nondurable goods	90,539	93,729	91,578	96,911	102,040	101,151	103,156
Aircraft and parts	35,905	37,509	46,921	42,599	36,091	36,393	34,978
Defense aircraft and parts	8,641	8,380	11,376	11,052	9,423	9,384	9,610
Nondefense aircraft and parts	27,264	29,129	35,545	31,547	26,668	27,009	25,368
Construction materials and supplies	43,275	44,877	45,617	47,510	49,389	46,344	46,196
Motor vehicles and parts	20,744	20,298	20,764	22,102	22,283	19,653	20,256
Computers and related products	8,841	10,289	8,017	7,963	8,350	6,341	5,975
Information technology industries	41,784	46,117	43,592	44,375	50,795	46,650	41,802
Nondefense capital goods	110,904	117,932	122,415	121,653	127,162	119,258	109,106
Excluding aircraft	90,031	95,226	94,045	96,254	106,669	98,483	90,539
Defense capital goods	17,336	14,814	17,775	19,754	17,153	17,677	17,705
Durables excluding capital goods	136,930	140,584	142,508	146,955	153,917	138,920	137,635
NEW ORDERS							
All manufacturing industries	3,567,384	3,779,835	3,808,143	3,957,242	4,161,472	3,875,329	3,800,930
Consumer goods	1,305,517	1,372,919	1,364,268	1,440,903	1,515,799	1,491,143	1,471,270
Consumer durable goods	340,964	374,596	385,860	428,721	406,730	378,170	395,213
Consumer nondurable goods	964,553	998,323	978,408	1,012,182	1,109,069	1,112,973	1,076,057
Aircraft and parts	104,614	109,077	108,004	107,336	130,575	111,432	105,382
Defense aircraft and parts	32,520	23,280	23,854	25,717	31,326	37,311	40,087
Nondefense aircraft and parts	72,094	85,797	84,150	81,619	99,249	74,121	65,295
Construction materials and supplies	373,536	403,860	419,330	435,034	446,792	420,300	418,315
Motor vehicles and parts	385,712	422,427	440,934	499,527	468,470	425,580	450,183
Computers and related products	95,070	107,564	115,806	114,481	107,656	89,320	82,398
Information technology industries	310,074	352,700	365,723	389,160	409,500	350,726	314,473
Nondefense capital goods	648,797	728,362	745,600	772,703	831,335	700,027	647,894
Excluding aircraft	607,174	676,119	698,279	728,089	767,754	665,899	617,878
Defense capital goods	88,471	64,497	64,127	67,900	79,598	83,033	79,264
Durables excluding capital goods	1,211,525	1,299,661	1,330,191	1,411,488	1,415,643	1,296,176	1,313,423

Source: U.S. Census Bureau, Current Industrial Reports, Manufacturers' Shipments, Inventories, and Orders: 1992-2002, Series M3-1(02). See also <http://www.census.gov/prod/2003pubs/m3-02.pdf> (released August 2003).

No. 997. Finances and Profits of Manufacturing Corporations: 1990 to 2002

[In billions of dollars (2,811 represents \$2,811,000,000,000). Data exclude estimates for corporations with less than \$250,000 in assets at time of sample selection. For 1990-2001, based on Standard Industrial Classification system; thereafter, based on North American Industry Classification System. See Table 778 for individual industry data]

Item	1990	1995	1996	1997	1998	1999	2000	2001 ¹	2002 ²	2002 ²
Net sales	2,811	3,528	3,758	3,920	3,949	4,149	4,548	4,308	4,295	4,221
Net operating profit	173	268	277	298	298	317	348	185	186	230
Net profit:										
Before taxes	160	274	307	331	315	355	381	82	83	207
After taxes	112	198	225	245	234	258	275	36	36	146
Cash dividends	62	81	96	108	121	104	132	102	103	103
Net income retained in business	49	117	129	136	114	154	143	-67	-66	43

¹ Based on Standard Industrial Classification system. ² Based on the North American Industry Classification System, 1997; see text, Section 15.

Source: U.S. Census Bureau, *Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations*.

No. 998. Manufacturing Corporations—Number, Assets, and Profits by Asset Size: 1990 to 2002

[Corporations and assets as of end of 4th quarter; profits for entire year (2,629,458 represents \$2,629,458,000,000). Through 2000 based on Standard Industrial Classification code; beginning 2001 based on North American Industry Classification System (see footnote 3). For corporations above a certain asset value based on complete canvass. The asset value for complete canvass was raised in 1988 to \$50 million and in 1995 to \$250 million. Asset sizes less than these values are sampled, except as noted. For details regarding methodology, see Appendix III. Minus sign (-) indicates loss]

Year	Unit	Asset-size class							
		Total	Under \$10 mil. ¹	\$10-\$25 mil.	\$25-\$50 mil.	\$50-\$100 mil.	\$100-\$250 mil.	\$250 mil.-\$1 bil.	\$1 bil. and over
Corporations:									
1990	Number	(NA)	(NA)	(NA)	(NA)	834	774	597	367
1995	Number	(NA)	(NA)	(NA)	(NA)	574	639	727	447
1996	Number	(NA)	(NA)	(NA)	(NA)	532	620	745	484
1997	Number	(NA)	(NA)	(NA)	(NA)	470	615	748	529
1998	Number	(NA)	(NA)	(NA)	(NA)	416	531	753	549
1999	Number	(NA)	(NA)	(NA)	(NA)	438	486	730	601
2000	Number	(NA)	(NA)	(NA)	(NA)	450	499	722	635
2001 ³	Number	(NA)	(NA)	(NA)	(NA)	504	504	735	576
2001 ⁴	Number	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2002	Number	(NA)	(NA)	(NA)	(NA)	491	519	780	580
Assets:									
1990	Mil. dol.	2,629,458	142,498	74,477	55,914	72,554	123,967	287,512	1,872,536
1995	Mil. dol.	3,345,229	155,618	87,011	68,538	87,262	159,133	370,263	2,417,403
1996	Mil. dol.	3,574,407	163,928	87,096	69,722	93,205	156,702	398,651	2,605,102
1997	Mil. dol.	3,746,797	167,921	87,398	76,034	85,186	157,130	397,559	2,775,570
1998	Mil. dol.	3,967,309	170,068	87,937	69,627	86,816	148,060	419,153	2,985,647
1999	Mil. dol.	4,382,814	170,058	85,200	67,352	97,810	138,143	398,881	3,425,370
2000	Mil. dol.	4,852,106	171,666	85,482	72,122	90,866	149,714	389,537	3,892,720
2001 ³	Mil. dol.	4,750,401	170,948	84,710	67,977	88,267	135,152	393,861	3,809,487
2001 ⁴	Mil. dol.	4,747,789	169,701	84,664	67,493	88,088	131,617	393,752	3,812,474
2002	Mil. dol.	4,826,279	166,749	83,263	62,517	83,437	134,137	412,736	3,883,439
Net profit:²									
1990	Mil. dol.	110,128	8,527	5,160	2,769	2,661	3,525	7,110	80,377
1995	Mil. dol.	198,151	13,224	5,668	3,767	5,771	7,000	16,549	146,172
1996	Mil. dol.	224,869	15,802	6,872	4,266	5,664	7,935	16,059	168,271
1997	Mil. dol.	244,505	17,948	8,383	4,153	4,675	7,074	18,433	183,836
1998	Mil. dol.	234,386	18,350	6,421	3,790	4,681	5,610	14,364	181,170
1999	Mil. dol.	257,805	17,398	7,618	3,504	4,798	4,795	12,756	206,934
2000	Mil. dol.	275,313	16,578	6,820	3,403	2,742	3,510	15,121	227,136
2001 ³	Mil. dol.	35,638	8,411	3,458	-443	519	-3,296	-5,988	32,978
2001 ⁴	Mil. dol.	36,168	8,387	3,366	-408	403	-543	-6,782	31,746
2002	Mil. dol.	146,144	10,126	3,017	976	1,798	3,681	1,396	125,153

NA Not available. ¹ Excludes estimates for corporations with less than \$250,000 in assets at time of sample selection. ² After taxes. ³ Data reported on a Standard Industrial Classification basis. ⁴ Beginning 2001, data reported on a NAICS basis. Source: U.S. Census Bureau, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. See also <<http://www.census.gov/prod/2003pubs/qfr02-q4.pdf>> (released April 2003).

No. 999. Manufacturing Corporations—Selected Finances: 1980 to 2002

[In billions of dollars (1,913 represents \$1,913,000,000,000). Data are not necessarily comparable from year to year due to changes in accounting procedures, industry classifications, sampling procedures, etc.; for detail, see source. For 1980-2001, on Standard Industrial Classification code; beginning 2001 based on North American Industry Classification System (NAICS), 1997. See footnote 5]

Year	All manufacturing corps.					Durable goods industries					Nondurable goods industries				
	Profits ¹		Stock holders' equity	Debt ²		Profits ¹		Stock holders' equity	Debt ²		Profits ¹		Stock holders' equity	Debt ²	
	Before taxes	After taxes				Before taxes	After taxes				Before taxes	After taxes			
1980	1,913	146	93	668	292	889	57	36	318	143	1,024	88	57	350	149
1985	2,331	137	88	866	454	1,143	62	39	421	167	1,189	76	49	445	267
1990	2,811	158	110	1,044	782	1,357	57	41	515	328	1,454	101	69	529	453
1991	2,761	99	66	1,064	814	1,304	14	7	507	338	1,457	85	59	557	476
1992 ³	2,890	31	22	1,035	819	1,390	-34	-24	474	335	1,500	65	46	561	485
1993	3,015	118	83	1,040	819	1,490	39	27	483	327	1,525	79	56	557	492
1994	3,256	244	175	1,110	815	1,658	121	87	533	316	1,598	123	88	577	500
1995	3,528	275	198	1,241	862	1,808	131	94	614	333	1,721	144	104	627	529
1996	3,758	307	225	1,348	920	1,942	147	106	674	366	1,816	160	119	674	554
1997	3,922	331	244	1,464	953	2,076	167	121	744	386	1,847	164	123	721	566
1998	3,949	315	234	1,487	1,065	2,169	175	128	794	458	1,781	140	107	694	607
1999	4,149	355	258	1,637	1,199	2,314	199	140	928	551	1,835	157	117	709	648
2000	4,548	381	275	1,892	1,308	2,457	191	132	1,101	610	2,091	190	144	791	698
2001 ⁴	4,308	82	36	1,827	1,296	2,332	-70	-77	1,049	640	1,976	152	112	779	656
2001 ⁵	4,295	83	36	1,843	1,287	2,321	-69	-76	1,080	632	1,974	152	112	762	655
2002	4,221	207	146	1,813	1,276	2,268	48	26	1,038	600	1,954	159	120	774	676

¹ Beginning 1998, profits before and after income taxes reflect inclusion of minority stockholders' interest in net income before and after income taxes. ² Annual data are average debt for the year (using four end-of-quarter figures). ³ Data for 1992 (most significantly 1992:1 qtr.) reflect the early adoption of Financial Accounting Standards Board Statement 106 (Employer's Accounting for Post-Retirement Benefits Other Than Pensions) by a large number of companies during the fourth quarter of 1992. Data for 1993:1 qtr. also reflect adoption of Statement 106. Corporations must show the cumulative effect of a change in accounting principle in the first quarter of the year in which the change is adopted. ⁴ Data reported on a Standard Industrial Classification (SIC) basis. ⁵ Beginning 2001, data reported on a NAICS basis.

Source: U.S. Census Bureau, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. See also <<http://www.census.gov/prod/2003pubs/qfr02-q4.pdf>> (released April 2003).

No. 1000. Tobacco Products—Summary: 1990 to 2002

[710 represents 710,000,000,000. Production data are for calendar years. Excludes cigars produced in customs bonded manufacturing warehouses]

Item	Unit	1990	1995	1996	1997	1998	1999	2000	2001	2002
PRODUCTION										
Cigarettes, total	Billions	710	747	758	720	680	607	565	562	565
Nonfilter tip	Billions	23	15	14	12	12	8	7	6	6
Filter tip	Billions	687	732	744	708	669	599	558	556	559
Cigars	Billions	1.9	2.1	2.4	2.3	2.8	2.9	3	4	3
Tobacco ¹	Mil. lb.	142	131	131	134	131	133	133	131	133
Smoking	Mil. lb.	16	12	12	11	13	15	14	13	16
Chewing tobacco	Mil. lb.	73	63	61	58	53	51	49	47	45
Snuff	Mil. lb.	53	60	62	64	66	67	70	71	73
EXPORTS										
Cigarettes	Billions	164.3	231.1	243.9	217.0	201.3	151.4	147.9	133.9	127.2
Cigars	Billions	72	94	84	86	93	84	113	124	236
Smoking tobacco	Billions	0.8	0.3	0.7	0.8	1.1	1.6	0.5	11.0	7.6
IMPORTS										
Cigarettes	Billions	1.4	3.0	2.8	3.2	4.3	8.7	11.3	14.7	20.9
Cigars	Billions	111	195	320	448	582	463	497	543	417
Smoking tobacco	Billions	2.9	4.2	4.2	4.3	4.3	4.3	4.2	1.9	0.9
CONSUMPTION										
Consumption per person ²	Lb. ³	5.6	4.7	4.7	4.5	4.5	4.3	4.2	4.1	4.2
Cigarettes	1,000	3	3	3	2	2	2	2	2	2
Cigars ⁴	Number	13	15	18	18	18	19	19	20	18
EXPENDITURES										
Consumer expenditures, total	Bil. dol.	43.8	48.7	50.4	52.2	57.3	72.1	77.5	82.8	(NA)
Cigarettes	Bil. dol.	41.6	45.8	47.2	48.7	53.2	68.3	72.9	77.8	(NA)
Cigars	Bil. dol.	0.7	1.0	1.0	1.2	1.6	1.8	1.8	2.0	(NA)
Other	Bil. dol.	1.5	2.5	2.2	2.2	2.4	2.7	2.7	2.9	(NA)

NA Not available.

¹ Smoking and chewing tobaccos and snuff output. ² Based on estimated population 18 years old and over, as of July 1, including Armed Forces abroad. ³ Unstemmed processing weight equivalent. ⁴ Weighing over 3 pounds per 1,000.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Tobacco Situation and Outlook*, quarterly.

No. 1001. Cotton, Wool, and Manmade Fibers—Consumption by End-Use: 1990 to 2001

[14,011 represents 14,011,000,000. Represents products manufactured by U.S. mills. Excludes glass fiber]

Year	Cotton			Wool		Manufactured fibers						
	Total (mil. lb.)	Total (mil. lb.)	Percent of end- use	Total (mil. lb.)	Percent of end-use	Artificial ¹		Synthetic ²		Total (mil. lb.)	Percent of end-use	
						Total (mil. lb.)	Percent of end-use	Total (mil. lb.)	Percent of end-use			
Total:												
1990	14,011	4,699	33.5	185	1.3	9,127	65.1	599	4.3	8,528	60.9	
1995	16,815	5,508	32.8	184	1.1	11,123	66.1	540	3.2	10,583	62.9	
1998	17,698	5,514	31.2	170	1.0	12,014	67.9	370	2.1	11,526	65.1	
1999	17,735	5,328	30.0	135	0.8	12,272	69.2	330	1.9	11,902	67.1	
2000	17,148	4,938	28.8	131	0.8	12,080	70.4	303	1.8	11,776	68.7	
2001	15,456	4,201	27.2	116	0.8	11,139	72.1	265	1.7	10,874	70.4	
Apparel:												
1990	5,204	2,897	55.7	118	2.3	2,189	42.1	287	5.5	1,902	36.5	
1995	6,877	3,640	52.9	132	1.9	3,106	45.2	306	4.4	2,800	40.7	
1998	6,526	3,329	51.0	113	1.7	3,083	47.3	208	3.2	2,875	44.1	
1999	6,417	3,262	50.8	89	1.4	3,065	47.8	172	2.7	2,894	45.1	
2000	6,057	3,007	49.6	79	1.3	2,971	49.1	150	2.5	2,822	46.6	
2001	5,294	2,515	47.5	73	1.4	2,706	51.1	135	2.6	2,571	48.6	
Home textiles:												
1990	2,235	1,325	59.3	14	0.6	896	40.1	104	4.7	792	35.4	
1995	2,530	1,487	58.8	12	0.5	1,030	40.7	93	3.7	937	37.0	
1998	2,916	1,779	61.0	15	0.5	1,122	38.5	67	2.3	1,056	36.2	
1999	2,815	1,656	58.8	15	0.5	1,145	40.7	66	2.3	1,080	38.3	
2000	2,727	1,526	56.0	15	0.5	1,186	43.5	65	2.4	1,122	41.1	
2001	2,392	1,355	56.6	13	0.5	1,025	42.9	53	2.2	972	40.6	
Floor coverings:												
1990	3,075	18	0.6	21	0.7	3,036	98.7	-	-	3,036	98.7	
1995	3,731	25	0.7	25	0.7	3,681	98.7	-	-	3,681	98.7	
1998	4,123	36	0.9	29	0.7	4,058	98.4	-	-	4,058	98.4	
1999	4,247	39	0.9	29	0.7	4,180	98.4	-	-	4,180	98.4	
2000	4,107	36	0.9	24	0.6	4,048	98.6	-	-	4,048	98.6	
2001	3,849	28	0.7	20	0.5	3,801	98.8	-	-	3,801	98.8	
Industrial:³												
1990	2,965	313	10.6	10	0.3	2,642	89.1	179	6.0	2,463	83.1	
1995	3,677	355	9.7	15	0.4	3,307	89.9	141	3.8	3,165	86.1	
1997	3,871	360	9.4	16	0.4	3,495	90.2	113	2.9	3,382	87.3	
1998	4,016	371	9.2	13	0.3	3,632	90.4	95	2.4	3,537	88.1	
1999	4,227	372	8.8	13	0.3	3,843	90.9	93	2.2	3,750	88.7	
2000	4,257	369	8.7	13	0.3	3,875	91.0	89	2.1	3,785	88.9	

- Represents or rounds to zero. ¹ Rayon and acetate. ² Nylon, polyester, acrylic, and olefin. ³ Includes consumer-type products.

Source: Fiber Economics Bureau, Inc., Arlington, VA, *Fiber Organon*, monthly (copyright).

No. 1002. Broadwoven and Knit Fabrics—Shipments and Foreign Trade: 2001

[3,100,592 represents 3,100,592,000. Fabric blends as shown in the report are reported based on the chief weight of the fiber; whereas, fabrics blends as shown for imports are based on the chief value of the fiber. Apparent consumption represents new domestic supply and is derived by subtracting exports for the total manufacturers' shipments plus imports]

Product description	Manufacturers' shipments (quantity)	Imports for consumption		Percent imports to manufacturers' shipments	Exports of domestic merchandise		Percent exports to manufacturers' shipments
		Quantity	Value ¹ (\$1,000)		Quantity	Value (\$1,000)	
BROADWOVEN FABRICS (quantity 1,000 sq. meters)							
Cotton fabrics ²	3,100,592	1,478,797	1,631,892	47.7	623,614	1,187,542	20.1
Manmade fiber fabrics	7,855,344	1,056,474	1,209,243	13.4	622,240	1,328,639	7.9
Silk fabrics (D)		28,736	241,167	(D)	2,391	17,694	(D)
Wool fabrics	44,450	16,451	126,741	37.0	15,048	78,099	33.9
KNIT FABRICS (quantity in 1,000 kilograms)							
Total	576,931	133,455	917,756	23.1	156,972	1,148,391	27.2
Pile fabrics	52,508	30,115	222,661	57.4	43,384	248,595	82.6
Elastic fabric	25,252	17,405	186,256	(S)	20,841	317,358	82.5
Other warp knit fabrics	52,976	12,191	99,966	23.0	15,032	126,763	28.4
Other narrow knit fabrics	12,100	2,984	23,947	24.7	1,319	12,068	10.9
Other knit fabrics	434,097	70,760	384,926	16.3	76,396	443,607	17.6

D Data withheld to avoid disclosing figures for individual companies. S Does not meet publication standards. ¹ Dollar value represents the c.i.f. (cost, insurance, and freight) at the first port of entry in the United States plus calculated import duty. ² Includes all cotton and chiefly cotton mixed with manmade fiber.

Source: U.S. Census Bureau, Current Industrial Reports, Series MQ313 and MA313K, annual. See also <<http://www.census.gov/industry/1/mq313t015.pdf>> (issued June 2002) and <<http://www.census.gov/industry/1/ma313k01.pdf>> (issued August 2002).

No. 1003. Footwear—Production, Foreign Trade, and Apparent Consumption: 2002

[Quantity in thousands of pairs (60,327 represents 60,327,000 pairs), value in thousands of dollars (315,587 represents \$315,587,000)]

Product description	Manufacturers' shipments (quantity)	Exports of domestic merchandise		Percent exports to domestic production	Imports for consumption		Apparent consumption (quantity)	Percent imports to apparent consumption
		Quantity	Value		Quantity	Value		
Total	60,327	26,291	315,587	43.6	1,508,305	13,215,517	1,542,341	97.8
Rubber or plastic uppers and rubber or plastic	2,712	10,170	108,197	375.0	521,015	2,968,166	513,557	101.5
Waterproof	2,464	824	8,686	33.4	11,037	63,139	12,677	87.1
Not waterproof	248	9,346	99,511	3,768.5	509,978	2,905,027	500,880	101.8
Leather uppers	18,248	7,861	157,752	43.1	666,889	9,023,999	677,276	98.5
Athletic	1,576	4,557	82,239	289.1	507,097	5,910,167	504,116	100.6
Leather soles	5,442	1,686	45,288	31.0	43,128	1,139,015	46,884	92.0
Other soles	11,230	1,618	30,225	14.4	116,664	1,974,817	126,276	92.4
Fabric uppers	36,163	8,260	49,638	174.3	320,401	1,223,352	348,304	92.0

Source: U.S. Census Bureau, Current Industrial Reports, Series MA316A, annual. See also <<http://www.census.gov/industry/1/ma316a02.pdf>> (released June 2003).

No. 1004. Pharmaceutical Preparations—Value of Shipments: 1990 to 2001

[In millions of dollars (33,954 represents \$33,954,000,000)]

Product description	Product code	1990	1995	1998	1999	2000	2001
		Pharmaceutical preparations, except biologicals	(X)	33,954	48,864	65,712	70,417
Affecting neoplasms, endocrine systems, and metabolic disease	3254121000	2,743	4,076	7,633	7,988	9,784	14,427
Acting on the central nervous system and sense organs	3254124000	7,219	9,228	13,605	14,881	18,508	19,737
Acting on the cardiovascular system	3254127000	4,815	5,988	9,368	9,601	8,993	9,700
Acting on the respiratory system	325412A000	3,724	5,196	6,725	8,155	10,179	11,653
Acting on the digestive system	325412D000	4,840	8,593	9,502	8,741	10,046	12,652
Acting on the skin	325412G000	1,558	2,171	2,245	2,798	2,941	2,717
Vitamin, nutrient, and hematonic preps.	325412L000	2,588	4,812	5,851	6,161	5,676	6,072
Affecting parasitic and infective disease	325412P000	5,411	7,196	8,780	9,778	11,037	11,219
Pharmaceutical preps. for veterinary use	325412T000	1,057	1,605	2,003	2,314	2,096	2,499

X Not applicable.

Source: U.S. Census Bureau, 1990, Current Industrial Reports, Series MA28G; thereafter, MA325G(01)-1. See also <<http://www.census.gov/industry/1/ma325g01.pdf>> (released September 2002).

No. 1005. Inorganic Chemicals and Fertilizers—Production: 1995 to 2001

[17,402 represents 17,402,000]

Product description	Unit	1995	1997	1998	1999	2000	2001
INORGANIC FERTILIZERS							
Ammonia, synthetic anhydrous	1,000 sh. tons	17,402	17,891	18,475	17,337	15,809	12,538
Ammonium nitrate, original solution	1,000 sh. tons	8,489	8,604	9,079	7,630	7,979	6,920
Ammonium sulfate	1,000 sh. tons	2,647	2,711	2,787	2,875	2,808	2,556
Urea (100%)	1,000 sh. tons	8,117	8,190	8,865	8,907	7,682	6,883
Nitric acid (100%)	1,000 sh. tons	8,839	9,433	9,285	8,945	8,708	7,074
Phosphoric acid (100% P ₂ O ₅)	1,000 sh. tons	13,134	13,159	13,891	13,708	12,492	11,566
Sulfuric acid, gross (100%)	1,000 sh. tons	47,519	47,929	48,513	44,756	43,643	40,793
Superphosphates and other fertilizer materials (100% P ₂ O ₅)	1,000 sh. tons	10,364	10,473	10,260	9,133	8,899	8,109
INORGANIC CHEMICALS							
Chlorine gas	1,000 metric tons	12,395	12,922	11,650	12,114	14,000	12,694
Sodium hydroxide, total liquid	1,000 metric tons	11,408	11,972	11,896	11,974	11,523	10,650
Potassium hydroxide liquid	(D)	533	450	430	539	512	
Finished sodium bicarbonate	1,000 metric tons	520	522	493	505	536	566
Titanium dioxide, composite and pure	1,000 metric tons	1,382	1,477	1,323	1,355	1,547	1,463
Hydrochloric acid	1,000 metric tons	3,904	4,411	4,226	4,191	4,717	4,379
Hydrofluoric acid	(D)	(D)	(D)	(D)	(NA)	(NA)	(NA)
Aluminum oxide	1,000 metric tons	4,764	5,072	4,537	4,016	(D)	3,156
Aluminum sulfate (commercial)	1,000 metric tons	1,144	1,161	1,058	1,052	1,076	1,137
Sodium chlorate	1,000 metric tons	617	626	707	742	940	873
Sodium phosphate tribasic	1,000 metric tons	21	(D)	19	27	(NA)	(NA)
Sodium phosphate tripoly	(D)	(D)	205	(D)	(D)	(D)	(D)
Sodium silicates ¹	1,000 metric tons	1,203	1,214	1,097	992	1,136	1,179
Sodium metasilicates	1,000 metric tons	93	83	70	63	72	(D)
Sodium sulfate	1,000 metric tons	(D)	(D)	571	599	509	565
Calcium phosphorus	1,000 metric tons	1,567	1,486	1,798	1,808	(D)	(D)
Carbon activated ²	1,000 metric tons	156	173	150	151	166	(S)
Hydrogen peroxide	1,000 metric tons	355	369	324	342	1,083	780
Phosphorous, elemental	1,000 metric tons	(D)	(D)	(D)	(NA)	(NA)	(NA)
Phosphorous, oxychloride and trichloride	1,000 metric tons	226	298	(D)	163	(D)	(D)

D Withheld to avoid disclosing data for individual companies. NA Not available. ¹ Other than metasilicates. ² Granular and pulverized.

Source: U.S. Census Bureau, Current Industrial Reports, Series MAQ325A, and MA325B, annual. See also <<http://www.census.gov/cir/www/325/mq325a.html>> (released August 2002) and <<http://www.census.gov/industry/1/mq325b015.pdf>> (released September 2002).

No. 1006. Aluminum—Supply, Shipments, and Foreign Trade: 1990 to 2002

[In millions of pounds (17,334 represents 17,334,000,000)]

Item	1990	1995	1997	1998	1999	2000	2001	2002
SUPPLY								
Aluminum supply, total	17,334	20,425	21,945	22,970	24,590	23,586	20,071	20,776
Primary production	8,925	7,441	7,944	8,185	8,330	8,087	5,812	5,964
Recovery from scrap	5,276	7,028	7,819	7,589	8,146	7,606	6,572	6,270
Imports of ingot and mill products	3,133	5,956	6,183	7,196	8,113	7,893	7,687	8,542
Aluminum net shipments, total ¹	17,188	21,019	22,513	23,189	24,673	24,496	22,519	23,601
PRODUCT								
Mill products, total	13,013	15,716	16,609	17,019	17,989	17,676	15,467	15,715
Sheet, plate, and foil	9,297	11,168	11,536	11,801	12,437	12,116	10,376	10,573
Rod, bar, and wire	370	534	621	657	670	690	571	591
Electrical conductor	542	566	629	631	676	681	676	705
Extruded shapes and tube	2,546	3,102	3,473	3,559	3,817	3,792	3,482	3,484
Powder and paste	106	108	118	123	130	142	142	142
Forgings and impacts	152	238	232	248	259	255	220	220
Ingot for castings and other ²	4,175	5,303	5,904	6,170	6,684	6,820	7,052	7,886
MARKET								
Domestic, total	14,637	18,152	19,523	20,358	21,707	21,680	20,531	21,245
Building and construction	2,663	2,679	2,921	3,070	3,237	3,204	3,297	3,447
Transportation	3,205	5,749	6,592	7,162	7,938	7,947	7,035	7,516
Consumer durables	1,122	1,369	1,529	1,599	1,675	1,692	1,502	1,592
Electrical	1,309	1,395	1,532	1,527	1,646	1,704	1,513	1,493
Machinery and equipment	992	1,257	1,381	1,386	1,458	1,496	1,414	1,359
Containers and packaging	4,772	5,088	4,895	5,012	5,106	4,992	4,961	4,979
Other	574	615	673	602	647	645	809	859
Exports	2,551	2,867	2,990	2,831	2,967	2,816	1,988	2,356
FOREIGN TRADE ³								
Exports	3,753	3,846	3,763	3,743	3,865	4,097	3,712	3,729
Imports	3,718	6,910	7,209	8,342	9,506	9,357	8,853	9,680

¹ Data presented on this report have been adjusted to shipments and inventories plus imports by consumers. ² Net ingot for foundry castings, export and destructive uses. ³ U.S. imports and exports of aluminum ingot, mill products and scrap.

Source: The Aluminum Association, Inc., Washington, DC, *Aluminum Statistical Review*, annual; and *Aluminum Facts at a Glance*, October 2002.

No. 1007. Iron and Steel Industry—Summary: 1990 to 2002

[95.5 represents 95,500,000 tons. For financial data, the universe in 1992 consists of the companies that produced 68 percent of the total reported raw steel production. The financial data represent the operations of the steel segment of the companies. Minus sign (-) indicates net loss]

Item	Unit									2002,
		1990	1995	1997	1998	1999	2000	2001	prel.	
Steel mill products, apparent supply ¹	Mil. tons	95.5	109.6	124.6	131.6	127.9	131.9	116.4	117.0	
Net shipments	Mil. tons	85.0	97.5	105.9	102.4	106.2	109.1	98.9	99.2	
Exports	Mil. tons	4.3	7.1	6.0	5.5	5.4	6.5	6.1	6.0	
Imports	Mil. tons	17.2	24.4	31.2	41.5	31.2	29.4	30.1	32.6	
Scrap consumed	Mil. tons	50.1	62.0	64.0	64.0	62.0	65.0	63.0	(NA)	
Scrap inventory	Mil. tons	3.6	4.1	5.5	4.5	5.3	5.3	4.9	(NA)	
Iron and steel products: Exports	Mil. tons	5.3	8.2	7.4	6.9	6.7	7.7	7.2	7.0	
Imports	Mil. tons ¹	21.9	27.3	34.4	45.4	40.2	42.6	34.4	37.3	
Capacity by steelmaking process	Mil. net tons	116.7	112.4	121.4	125.3	128.2	130.3	125.5	113.7	
Revenue	Bil. dol.	30.9	35.1	36.6	38.1	36.3	38.8	31.0	(NA)	
Net income	Bil. dol.	0.1	1.5	1.0	1.1	-0.5	-1.1	-3.9	(NA)	
Stockholders' equity	Bil. dol.	4.3	8.6	9.8	12.5	11.8	9.9	5.5	(NA)	
Total assets	Bil. dol.	28.3	35.1	38.3	42.2	43.7	43.9	38.1	(NA)	
Capital expenditures ²	Bil. dol.	2.6	2.5	2.7	3.1	2.8	2.1	1.1	(NA)	
Working capital ratio ²	Ratio	1.6	1.5	1.6	1.6	1.7	1.7	1.6	(NA)	
Inventories	Bil. dol.	4.7	5.1	5.8	6.8	6.5	6.8	5.7	(NA)	
Average employment	1,000	169.0	122.6	111.8	109.6	102.2	99.5	88.0	(NA)	
Hours worked	Million	350.0	269.2	247.2	240.0	222.7	219.7	186.4	(NA)	
Index of output, all employees ³	1987=100	109.7	142.6	155.0	151.0	155.6	160.1	(NA)	(NA)	

NA Not available. ¹ In millions of short tons. ² Current assets to current liabilities. ³ Output per hour. Source: U.S. Bureau of Labor Statistics, Internet site <<http://www.bls.gov/pc/>>.
Source: Except as noted, American Iron and Steel Institute, Washington, DC, *Annual Statistical Report* (copyright).

No. 1008. Steel Products—Net Shipments by Market Classes: 1990 to 2002

[In thousands of short tons (84,981 represents 84,981,000). Comprises carbon, alloy, and stainless steel]

Market class	1990	1995	1997	1998	1999	2000	2001	2002
Net shipments, total¹	84,981	97,494	105,858	102,420	106,201	109,050	99,448	99,191
Automotive	11,100	14,622	15,251	15,842	16,771	16,063	14,059	12,562
Steel service centers, distributors	21,111	23,751	27,800	27,751	28,089	30,108	27,072	22,828
Construction, incl. maintenance ²	9,245	14,892	15,885	15,289	18,428	20,290	21,543	15,729
Containers, packaging, shipping	4,474	4,139	4,163	3,829	3,842	3,708	3,232	3,251
Machinery, industrial equipment, tools	2,388	2,310	2,355	2,147	1,722	1,784	1,456	1,137
Steel for converting and processing	9,441	10,440	11,263	9,975	11,309	12,708	10,311	7,201
Rail transportation	1,080	1,373	1,410	1,657	1,031	1,307	981	751
Contractors' products	2,870	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Oil and gas industries	1,892	2,643	3,811	2,649	2,151	2,885	2,953	1,658
Electrical equipment	2,453	2,397	2,434	2,255	2,267	2,055	1,684	1,336
Appliances, utensils, and cutlery	1,540	1,589	1,635	1,729	1,789	1,907	1,820	1,734

¹ Includes nonclassified shipments and other classes not shown separately. ² Beginning 1995, contractors' products included with construction.
Source: American Iron and Steel Institute, Washington, DC, *Annual Statistical Report* (copyright).

No. 1009. Metalworking Machinery—Value of Shipments: 1990 to 2002

[In millions of dollars (3,426.1 represents \$3,426,100,000)]

Product	NAICS product code								
		1990	1995	1998	1999	2000	2001	2002	
Metalworking machinery	(X)	3,426.1	4,547.1	4,817.1	3,783.3	3,632.4	2,987.6	2,002.1	
Metal cutting type ¹	(X)	2,371.3	3,036.6	3,481.8	2,512.6	2,552.4	2,163.7	1,418.7	
Boring machines	333512A1	(²)	172.4	73.6	53.8	87.2	124.8	128.3	
Drilling machines	333512A1	184.1	78.9	102.9	50.6	25.7	22.6	17.1	
Gear cutting machines	33351211	102.7	137.1	197.7	132.0	180.6	137.2	111.0	
Grinding and polishing machines	33351220	433.6	549.6	535.5	477.1	454.3	367.7	210.7	
Lathes	33351230	355.6	478.0	472.9	297.4	287.0	262.0	132.4	
Milling machines	33351240	214.3	194.8	281.1	200.5	150.5	137.8	56.1	
Machining centers	33351270	437.0	698.8	897.3	597.9	629.7	435.5	273.6	
Station type machines	33351280	502.1	477.0	571.0	407.1	401.8	347.9	169.9	
Other metal cutting machine tools ⁶	33351290	141.9	246.2	344.6	291.7	333.2	276.4	238.3	
Metal forming type	(X)	1,080.2	1,510.5	1,335.3	1,270.7	1,080.0	823.9	583.4	
Punching and shearing machines	33351310 pt.	200.1	326.3	254.3	220.0	230.8	155.3	105.9	
Bending and forming machines	33351310 pt.	222.9	256.9	262.7	265.8	262.4	202.6	141.3	
Presses, except forging	33351330	308.3	379.2	399.5	433.7	303.1	180.3	140.1	
Forging machines	33351350 pt.	73.9	(D)	(D)	(D)	(D)	(D)	(D)	
Other metal forming	33351350 pt.	275.0	548.1	418.8	351.2	310.7	275.8	187.4	

D Data withheld to avoid disclosure. X Not applicable. ¹ Beginning 1995, data for "All lathes (turning machines)" and "All milling machines," valued at under \$3,025 each are included in total "Metal cutting type" for 1995 through 2000. ² For 1990, data for "Boring machines" were combined with "Drilling machines" to avoid disclosing individual company data. ³ Beginning 1995, product code 33351230, "Lathes," excludes the value for product code 333512301, All lathes valued under \$3,025 each. ⁴ Beginning 1995, product code 33351240, "Milling machines," excludes the value for product code 3335124001, "All milling machines valued under \$3,025 each." ⁵ Multifunction numerically controlled machines. ⁶ Excludes those designed primarily for home workshops, labs, etc. ⁷ For 1995 through 2002, data for "Forging machines" have been combined with "Other metal forming machines" to avoid disclosing individual company data.

Source: U.S. Census Bureau, 1990, Current Industrial Reports, Series MQ35W; and thereafter, MQ333W. See also <<http://www.census.gov/industry/1/mq333w025.pdf>> (released July 2003).

No. 1010. U.S. Machine Tool Consumption—Gross New Orders and Exports: 2001 and 2002

[The complete publication including this copyright table is available from the U.S. Government Printing Office and the National Technical Information Service]

No. 1011. Semiconductors, Printed Circuit Boards, and Other Electronic Components—Value of Shipments by Class of Product: 1990 to 2002

[In millions of dollars (56,301 represents \$56,301,000,000). N.e.c.=not elsewhere classified]

Class of product	Product code	1990	1995	1999	2000	2001	2002
		(X)	(¹)	(¹)	(¹)	(¹)	(¹)
Total	(X)	56,301	118,906	141,660	164,854	118,868	111,407
Transmittal, industrial, and special-purpose electron tubes (except x-ray)	3344111	1,097	855	673	703	700	594
Electron tubes, receiving type	(X)	24	(¹)	(¹)	(¹)	(¹)	(¹)
Receiving type electron tubes and cathode ray picture tubes	3344114	1,344	¹ 2,907	¹ 3,579	¹ 3,458	¹ 2,847	¹ 2,043
Electron tube parts	3344117	143	120	136	144	125	69
Printed circuit boards	3344120	7,175	8,367	9,150	11,892	8,910	6,045
Integrated microcircuits (semiconductor networks)	3344131	16,623	48,438	62,868	73,664	46,337	55,772
Transistors	3344134	682	943	994	1,569	913	747
Diodes and rectifiers	3344137	668	1,067	1,038	621	403	281
Other semiconductor devices	334413A	5,741	12,639	11,745	9,757	7,632	6,805
Capacitors for electronic applications	3344140	1,392	1,785	2,035	2,786	1,734	1,300
Resistors	3344150	800	953	971	982	776	683
Coils, transformers, reactors, and chokes for electronic applications	3344160	976	1,412	1,423	1,719	1,362	1,130
Coaxial connectors	3344171	420	732	631	805	506	366
Cylindrical connectors	3344174	514	553	550	725	688	672
Rack and panel connectors	3344177	500	541	391	532	359	234
Printed circuit connectors	334417A	805	1,026	1,376	1,811	1,147	744
Other connectors including parts	334417D	1,085	1,402	2,041	2,059	2,052	1,288
Filters (except microwave) and piezoelectric devices	3344191	457	729	858	1,168	984	718
Transducers, electrical/electronic input or output	3344194	741	1,111	1,331	1,519	1,331	1,154
Switches, mechanical types for electronic circuitry	3344197	579	666	883	903	828	840
Printed circuit assemblies	334418A	8,269	24,448	30,091	37,273	31,214	23,259
Microwave components and devices	334419A	1,369	1,233	1,622	2,435	1,848	1,599
All other electronic components n.e.c.	334419D	4,898	6,978	7,276	8,332	6,173	5,067

X Not applicable. ¹ Product codes combined to avoid disclosing figures for individual companies. ² N.e.c. means not elsewhere classified.

Source: U.S. Census Bureau, 1990, Current Industrial Reports, Series MA36Q; thereafter, MA334Q. See also <<http://www.census.gov/industry/1/ma334q02.pdf>> (revised 07 August 2003).

No. 1012. Computers and Office and Accounting Machines—Value of Shipments: 1990 to 2002

[In millions of dollars (25,630 represents \$25,630,000,000)]

Selected products	1990	1995	1998	1999	2000	2001	2002
Electronic computers ¹	25,630	49,038	56,892	64,696	62,857	48,541	41,818
Host computers (multi-users)	(NA)	(NA)	15,010	21,089	22,877	16,469	14,207
Single user computers	(NA)	(NA)	41,002	42,765	38,981	31,492	26,749
Other computers	(NA)	(NA)	48	(D)	998	581	862
Loaded computer processor boards and board subassemblies ²	2,247	24,448	26,047	30,091	37,273	31,214	23,259
Computer storage devices & equipment	7,488	7,903	9,319	9,827	8,995	7,319	5,661
Parts for computer storage devices & subassemblies	955	2,236	2,310	2,254	1,692	1,699	1,560
Computer terminals	2,067	1,086	529	541	415	361	286
Computer peripheral equipment, n.e.c. ³	7,697	12,331	12,145	12,889	12,434	10,637	10,364
Parts for input/output equipment	3,706	2,391	2,630	2,388	2,766	2,360	2,217
Calculating and accounting machines	(D)	1,279	1,061	1,196	1,210	1,191	828
Magnetic and optical recording media	3,695	5,106	4,736	3,907	3,206	2,228	2,325

D Withheld to avoid disclosing data for individual companies. NA Not available. ¹ Beginning 1998, computer industry data are not entirely comparable to previous years. ² These data are collected on two Current Industrial Report forms, MA35R, "Computers and Office and Accounting Machines (Shipments) and MA36Q, Semiconductors, Printed Circuit Boards, And Other Electronic Components. ³ N.e.c. means not elsewhere classified.

Source: U.S. Census Bureau, *Current Industrial Reports*, Series MA334R. See also <<http://www.census.gov/industry/1/ma334r02.pdf>> (released August 2003).

No. 1013. Computers and Office and Accounting Machines—Shipments: 2001 and 2002

[Quantity in thousands of units (22,209 represents 22,209,000, value in millions of dollars (48,541 represents \$48,541,000,000)]

Product	Number of companies, 2002	Quantity (1,000)		Value (mil. dol.)	
		2001	2002	2001	2002
Electronic computers (automatic data processors)	125	22,209	19,647	48,541	41,818
Host computers (multi-users):					
Large scale systems and unix servers	13	309	106	4,701	4,036
Medium-scale systems and unix servers	22	323	279	8,301	6,704
PC servers	24	(D)	(D)	(D)	(D)
Other host computers	9	(D)	(D)	(D)	(D)
Single user computers:					
Personal computers	34	14,591	12,920	18,870	16,186
Workstations	38	1,316	1,132	3,381	2,380
Laptops (AC/DC)	9	7	8	21	23
Notebooks, subnotebooks (battery operated)	16	4,249	4,126	8,682	7,850
Personal digital assistants	6	(D)	(D)	(D)	(D)
Other portable computers	7	(D)	(D)	(D)	(D)
Other single user computers	6	184	102	94	55
Other computers	31	106	120	581	862
Computer storage devices and equipment	58	(X)	(X)	7,319	5,661
Parts for computer storage devices and subassemblies	18	(X)	(X)	1,699	1,560
Computer terminals	31	(X)	(X)	361	286
Computer peripheral equipment, n.e.c. ¹	202	(X)	(X)	10,637	10,364
Keyboards	24	(D)	(D)	(D)	(D)
Computer printers:					
Laser	25	3,475	1,270	2,011	1,803
Inkjet	11	7,986	(D)	615	(D)
Calculating and accounting machines	33	(X)	(X)	1,191	828
Printed circuit assemblies	654	(X)	(X)	31,214	23,259
Magnetic and optical recording media	36	(X)	(X)	2,228	2,325

X Not applicable. D Withheld to avoid disclosure of individual companies. ¹ N.e.c. = Not elsewhere classified. Source: U.S. Census Bureau, *Current Industrial Reports*, Series MA334R. See also <<http://www.census.gov/industry/1/ma334r02.pdf>> (released August 2003).

No. 1014. Computers and Industrial Electronics—Factory Shipments: 1990 to 2000

[In millions of dollars (50,793 represents \$50,793,000,000)]

Item	1990	1995	1997	1998	1999	2000
Computer and peripheral equipment, total	50,793	73,555	76,287	78,356	87,412	84,310
Computers	25,973	49,038	50,250	56,892	64,696	62,072
Peripheral equipment	24,820	24,517	26,037	21,464	22,716	22,238
Industrial electronics, total	26,183	33,732	38,108	36,887	37,734	40,566
Controlling, processing equipment	12,728	16,450	18,212	18,082	18,221	18,597
Testing, measuring equipment	6,859	10,109	11,966	11,213	11,564	14,554
Nuclear electronic equipment	567	501	516	560	538	568
Robots, accessories, and components	275	(NA)	(NA)	(NA)	(NA)	(NA)
Other electronic equipment	5,754	6,672	7,414	7,033	7,412	6,847

NA Not available.

Source: Consumer Electronics Association, Washington, DC, *Electronic Market Data Book*, annual (copyright).

No. 1015. Consumer Electronics and Electronic Components— Factory Sales by Product Category: 1990 to 2001

[In millions of dollars (43,033 represents \$43,033,000,000). Factory sales include imports]

Product category	1990	1995	1997	1998	1999	2000	2001
Total ¹	43,033	67,905	75,356	79,427	85,633	94,924	91,706
Video products:	(NA)	15,376	13,893	14,898	16,671	18,545	17,043
Direct-view color TV	6,197	6,798	6,023	6,122	6,199	6,140	5,130
LCD color TV	50	44	38	39	36	43	42
Analog projection TV	626	1,417	1,361	1,577	1,632	1,481	1,060
TV/VCR combinations	178	723	684	832	1,014	969	790
Monochrome TV	99	34	27	23	20	15	15
LCD Monochrome TV	33	31	30	28	25	21	20
VCR decks	2,439	2,767	2,618	2,409	2,333	1,861	1,058
Camcorders	2,260	2,130	1,894	2,011	2,444	2,838	2,081
Lasercdisc players	72	108	25	10	3	3	3
Direct-to-home satellite	421	1,265	726	733	957	1,102	921
Videocassette players	65	59	39	21	15	7	5
Digital versatile disc players (DVD)	(NA)	(NA)	171	421	1,099	1,713	2,697
Home and portable products:	(NA)	6,378	5,911	5,875	6,048	5,924	5,944
Compact audio systems	1,270	1,162	1,417	1,554	1,695	1,778	1,357
Separate audio components	1,935	1,911	1,606	1,448	1,442	1,523	1,357
Home radios	360	284	300	300	348	351	325
Portable audio equipment	1,645	2,506	2,033	2,146	2,086	1,640	1,967
Mobile electronics:	(NA)	11,422	11,311	11,542	12,169	15,433	15,336
Aftermarket autotound equipment	1,192	1,931	1,811	1,899	2,157	2,169	2,135
Factory installed autotound	3,100	3,100	2,710	2,540	2,610	2,700	2,850
Wireless (cellular) telephones	1,133	2,574	5,940	6,000	6,066	8,995	8,651
Pagers	118	300	460	550	660	750	790
Vehicle security	190	142	210	213	205	218	266
Home office products:	(NA)	24,140	31,982	33,455	35,219	36,652	34,281
Cordless telephones	842	1,141	1,672	1,745	1,808	1,307	1,358
Corded telephones	638	557	515	489	471	393	294
Telephone answering devices	827	1,077	1,020	1,104	1,044	984	1,062
Home computers	4,187	12,600	15,950	16,640	16,390	16,400	12,960
Computer printers	(NA)	2,430	3,900	4,188	4,500	5,116	5,245
Modems/fax modems	(NA)	770	1,170	1,305	1,460	1,564	1,564
Computer peripherals	1,980	816	1,212	1,440	1,950	2,150	2,365
Computer software (incl. CDROM)	971	2,500	3,450	3,930	4,480	5,062	5,771
Home fax machines	920	919	1,137	647	455	387	349
Digital cameras	(NA)	(NA)	483	519	1,209	1,823	1,972
Electronic gaming:							
Electronic gaming hardware	975	1,500	1,650	1,980	2,250	2,700	3,250
Electronic gaming software	2,400	3,000	3,900	4,480	5,100	5,850	6,725
Blank media:							
Blank audio cassettes	376	334	281	248	208	162	106
Blank videocassettes	948	708	695	647	590	567	604
Blank computer media	314	373	500	700	900	1,200	1,550
Accessories and batteries:							
Electronic accessories	793	944	964	1,119	1,198	1,281	1,389
Total primary batteries	1,383	2,600	2,869	2,963	3,620	4,860	3,658
Home security systems	(NA)	1,130	1,400	1,520	1,660	1,750	1,820

NA Not available. ¹ Includes categories, not shown separately.

Source: Consumer Electronics Association, Washington, DC, *Electronic Market Data Book*, annual (copyright).

No. 1016. Communication Equipment—Value of Shipments: 1990 to 2001

[In millions of dollars (36,990 represents \$36,990,000,000)]

Product description	Product code	1990	1995	1998	1999	2000	2001
Total	(X)	36,990	56,362	82,176	89,557	105,403	91,861
Telephone switching and switchboard equipment	3342101	7,537	8,178	12,422	13,742	14,433	11,821
Carrier line equipment and modems	3342104	5,014	5,869	9,379	9,263	14,816	10,839
Other telephone and telegraph equipment and components	3342107	3,181	10,510	19,897	23,258	26,260	26,563
Communication systems and equipment (except broadcast)	3342201	14,768	23,032	31,128	33,281	38,301	30,930
Broadcast, studio, and related electronic equipment	3342203	1,856	2,845	3,603	4,000	3,902	3,488
Intercommunications systems, including inductive paging systems (selective calling)	3342903	346	296	249	401.1	495	474
Alarm systems	3342901	1,027	1,662	2,024	2,218	2,376	3,343
Vehicular and pedestrian traffic control equipment and electrical railway signals and attachments	3342902	471	711	912	952.3	935	878
Electronic teaching machines, teaching aids, trainers and simulators ¹	3333197	1,209	913	713	700.7	814	742
Laser sources ¹	3359997	(NA)	788	(S)	(S)	1,204	1,139
Ultrasonic equipment	335999A	109	172	205	225.7	267	233
Other electronic systems and equipment, n.e.c. ²	335999C	1,473	1,387	1,645	1,515	1,602	1,411

NA Not available. S Does not meet publication standards. X Not applicable. ¹ Beginning in 1995, data for laser equipment, instrumentation, and components were eliminated from this survey. Only laser sources are being collected. ² N.e.c. = Not elsewhere classified.

Source: U.S. Census Bureau, *Current Industrial Reports*, Series MA334P. See also <<http://www.census.gov/industry/1/ma334p01.pdf>> (released September 2002).

No. 1017. Motor Vehicle Manufactures—Summary by Selected Industry: 2001

[Payroll of 47,955 represents \$47,955,000,000. Based on the Annual Survey of Manufactures; see Appendix III]

Industry	NAICS code ¹	All employees ²			Production workers ²	Value of shipments ³ (mil. dol.)
		Payroll		Per employee (dol.)		
		Number	Total (mil. dol.)			
Motor vehicle manufacturing, total	3361-3363	1,073,104	47,955	44,688	867,975	427,176
Motor vehicle, total	3361	213,981	12,647	59,102	186,209	216,128
Automobile & light duty motor vehicle	33611	186,527	11,435	61,304	165,090	203,514
Automobile	336111	91,062	5,388	59,166	78,607	87,046
Light truck & utility vehicle	336112	95,465	6,047	63,343	86,483	116,468
Heavy duty truck	33612	27,454	1,212	44,142	21,119	12,613
Motor vehicle body & trailer	3362	123,120	3,807	30,924	97,153	24,209
Motor vehicle body & trailer	33621	123,120	3,807	30,924	97,153	24,209
Motor vehicle body	336211	41,771	1,325	31,725	30,830	10,535
Truck trailer	336212	26,360	825	31,286	20,934	4,296
Motor home	336213	16,102	502	31,169	13,064	3,345
Travel trailer & camper	336214	38,887	1,156	29,716	32,255	6,034
Motor vehicle parts	3363	736,003	31,501	42,800	584,613	186,839
Motor vehicle gasoline engine & engine parts	33631	88,635	4,288	48,377	73,021	28,202
Carburetor, piston, piston ring, & valve	336311	16,656	745	44,749	13,944	2,907
Gasoline engine & engine parts	336312	71,979	3,543	49,217	59,077	25,294
Motor vehicle electrical & electronic equip.	33632	109,477	4,312	39,391	80,650	23,310
Vehicle lighting electrical	336321	14,665	640	43,665	10,913	2,780
Other motor vehicle electrical & electronic equipment	336322	94,812	3,672	38,730	69,737	20,530
Motor vehicle steering & suspension components, ex. spring	33633	47,015	2,207	46,948	38,239	10,044
Motor vehicle brake system	33634	38,736	1,420	36,660	29,542	10,636
Motor vehicle transmission & power train parts	33635	98,753	5,178	52,455	79,306	31,466
Motor vehicle seating & interior trim	33636	52,670	1,675	31,793	42,269	14,814
Motor vehicle metal stamping	33637	112,488	5,392	47,932	94,033	21,858
Other motor vehicle parts	33639	188,229	7,029	37,341	147,553	46,510

¹ North American Industrial Classification System, 1997; see text, Section 15. ² Includes employment and payroll at administrative offices and auxiliary units. All employees represents the average of production workers plus all other employees for the payroll period ended nearest the 12th of March. Production workers represents the average of the employment for the payroll periods ended nearest the 12th of March, May, August, and November. ³ Includes extensive and unmeasurable duplication from shipments between establishments in the same industry classification.

Source: U.S. Census Bureau, Annual Survey of Manufactures, *Statistics for Industry Groups and Industries*, Series M01(AS)-1. See also <<http://www.census.gov/prod/2003pubs/m01-as1.pdf>> (issued January 2003).

No. 1018. Motor Vehicle Manufactures—Employees, Payroll, and Shipments by Major State: 2001

[Payroll of 12,647 represents 12,647,000,000. Industry based on the North American Industrial Classification System (NAICS), 1997; see text, Section 15]

Major State based on employment	Motor vehicle manufacturing (NAICS 3361)			Motor vehicle body and trailer manufacturing (NAICS 3362)			Motor vehicle parts manufacturing (NAICS 3363)		
	Employees, total	Payroll (mil. dol.)	Shipments (mil. dol.)	Employees, total	Payroll (mil. dol.)	Shipments (mil. dol.)	Employees, total	Payroll (mil. dol.)	Shipments (mil. dol.)
United States	213,981	12,647	216,128	123,120	3,807	24,209	736,003	31,501	186,839
Alabama	(D)	(D)	(D)	3,158	94	754	11,531	565	3,315
Arkansas	(NA)	(NA)	(NA)	1,549	35	281	7,522	173	873
California	7,429	416	2,965	11,287	341	4,693	25,824	771	3,849
Florida	(NA)	(NA)	(NA)	3,793	134	806	4,409	124	625
Georgia	7,620	386	8,130	2,977	80	(S)	9,394	273	2,114
Illinois	8,083	481	7,863	3,719	127	649	28,464	930	5,271
Indiana	11,867	618	10,811	24,414	867	4,845	93,497	4,226	22,712
Iowa	(NA)	(NA)	(NA)	8,000	247	1,403	9,169	307	1,693
Kentucky	18,810	1,287	22,470	(NA)	(NA)	(NA)	27,764	934	7,240
Michigan	42,260	2,722	51,873	3,925	113	599	178,681	9,230	52,242
Mississippi	(NA)	(NA)	(NA)	780	22	109	9,718	296	1,673
Missouri	(D)	(D)	(D)	2,049	52	227	19,520	569	4,030
Nebraska	(NA)	(NA)	(NA)	1,109	29	190	3,609	123	668
New York	(NA)	(NA)	(NA)	1,088	32	768	30,232	1,737	8,703
North Carolina	(D)	(D)	(D)	3,714	141	961	18,661	619	4,512
Ohio	29,972	1,784	32,648	4,387	142	809	96,775	4,881	29,924
Oklahoma	(D)	(D)	(D)	4,086	105	691	5,531	165	1,031
Oregon	1,749	60	781	4,635	113	552	2,525	98	500
Pennsylvania	(D)	(D)	(D)	7,243	191	1,118	15,328	581	3,328
South Carolina	6,210	298	4,501	(S)	(S)	(S)	16,109	557	4,570
Tennessee	14,241	840	7,552	1,818	52	381	32,130	1,065	8,098
Texas	(D)	(D)	(D)	5,963	169	800	16,186	468	3,389
Utah	(NA)	(NA)	(NA)	1,085	27	177	5,341	223	2,387
Virginia	(D)	(D)	(D)	(D)	(D)	(D)	6,747	253	1,718
Wisconsin	(D)	(D)	(D)	5,258	188	909	23,387	970	5,412

D Withheld to avoid disclosing data on individual companies. NA Not available.

Source: U.S. Census Bureau, Annual Survey of Manufactures, *Geographic Area Statistics*, Series M01(AS)-3. See also <<http://www.census.gov/prod/2003pubs/m01as-3.pdf>> (issued January 2003).

No. 1019. Aerospace—Sales, New Orders, and Backlog: 1990 to 2002

[In billions of dollars (136.6 represents \$136,600,000,000), except as indicated. Reported by establishments in which the principal business is the development and/or production of aerospace products]

Item	1990	1995	1998	1999	2000	2001	2002
Net sales	136.6	102.8	119.3	124.2	109.3	117.1	111.3
Percent U.S. government	53.8	50.5	33.5	36.3	37.5	38.6	46.5
Complete aircraft and parts ¹	49.9	42.5	63.6	68.0	57.2	58.7	51.9
Aircraft engines and parts	16.4	12.5	12.8	14.4	12.5	15.9	14.8
Missiles and space vehicles, parts	22.0	18.4	16.1	15.7	15.6	15.5	15.0
Other products, services	48.3	29.4	26.7	26.1	24.0	26.9	29.6
Net, new orders	146.0	109.1	110.0	115.3	140.1	122.2	114.6
Backlog, Dec. 31	250.1	202.6	200.3	188.4	215.0	220.1	222.8

¹ Except engines sold separately.

Source: U.S. Census Bureau, 1990-1997, Current Industrial Reports, Series M37G; thereafter M336G. See also <<http://www.census.gov/industry1/m336g0213.pdf>> (released August 2003).

No. 1020. Net Orders for U.S. Civil Jet Transport Aircraft: 1990 to 2002

[1990 data are net new firm orders; beginning 1995, net announced orders. Minus sign (-) indicates net cancellations. In 1997 Boeing acquired McDonnell Douglas]

Type of aircraft and customer	1990	1995	1997	1998	1999	2000	2001	2002
Total number ¹	670	421	501	601	346	585	271	174
U.S. customers	259	138	258	392	192	412	49	89
Foreign customers	411	283	243	209	70	193	130	172
Boeing 737, total	189	189	280	350	258	378	184	117
U.S. customers	38	85	120	207	155	302	51	64
Foreign customers	151	104	160	143	45	86	73	127
Boeing 747, total	153	35	37	-4	22	24	16	17
U.S. customers	24	2	15	1	1	1	7	-
Foreign customers	129	33	22	-5	19	18	13	13
Boeing 757, total	66	-7	45	47	18	43	23	-
U.S. customers	33	-6	25	34	7	38	15	2
Foreign customers	33	-1	20	13	2	14	6	-
Boeing 767, total	60	26	96	40	32	6	32	-2
U.S. customers	23	4	85	31	21	-2	-1	1
Foreign customers	37	22	11	9	1	14	9	12
Boeing 777, total	34	83	46	65	21	113	30	26
U.S. customers	34	-	24	42	8	60	-	-1
Foreign customers	-	83	22	23	8	53	20	27
McDonnell Douglas MD-11, total	52	-6	11	12	-	-	-	-
U.S. customers	16	3	-	3	-	-	-	-
Foreign customers	36	-9	11	9	-	-	-	-
McDonnell Douglas MD-80/90, total	116	51	-14	26	-20	-	-	-
U.S. customers	91	-	-11	24	-	-	-	-
Foreign customers	25	51	-3	2	-20	-	-	-
McDonnell Douglas MD-95, total	-	50	-	65	15	21	-14	16
U.S. customers	-	50	-	50	-	13	-23	23
Foreign customers	-	-	-	15	15	8	9	-7

- Represents zero. ¹ Includes types of aircraft not shown separately. Beginning 1999, includes unidentified customers.

Source: Aerospace Industries Association of America, Washington, DC, Research Center, Statistical Series 23, Internet site at <<http://www.aia-aerospace.org/stats/aerostats/aerostats.cfm>>.

No. 1021. U.S. Aircraft Shipments: 1980 to 2003

[Value in millions of dollars (18,929 represents \$18,929,000,000)]

Year	Total		Civil						Military	
			Large transports		General aviation ¹		Helicopters			
	Units	Value	Units	Value	Units	Value	Units	Value	Units	Value
1980	14,677	18,929	387	9,895	11,877	2,486	1,366	656	1,047	5,892
1985	3,610	27,269	278	8,448	2,029	1,431	384	506	919	16,884
1990	3,321	38,585	521	22,215	1,144	2,007	603	254	1,053	14,109
1991	3,092	44,657	589	26,856	1,021	1,968	571	211	911	15,622
1992	2,585	47,397	567	28,750	941	1,840	324	142	753	16,665
1993	2,585	41,166	408	24,133	964	2,144	258	113	955	14,776
1994	2,309	36,568	309	18,124	928	2,357	308	185	764	15,902
1995	2,436	33,658	256	15,263	1,077	2,842	292	194	811	15,359
1996	2,235	36,247	269	17,564	1,130	3,127	278	193	558	15,363
1997	2,777	42,614	374	25,810	1,569	4,674	346	231	488	11,899
1998	3,560	55,286	559	36,880	2,220	5,874	363	252	418	12,280
1999	3,849	58,128	620	38,475	2,525	7,935	345	200	359	11,518
2000	4,027	51,664	485	31,171	2,816	8,558	493	270	233	11,665
2001	3,809	56,470	526	35,056	2,618	8,517	415	247	250	12,650
2002	3,233	48,613	379	26,000	2,203	7,876	321	157	330	14,580
2003, prel.	2,925	40,535	275	18,300	1,895	6,415	420	290	335	15,530

¹ Excludes off-the-shelf military aircraft.

Source: U.S. Department of Commerce, International Trade Administration, Internet site <<http://www.ita.doc.gov/td/aerospace/information.htm>>.

No. 1022. Aerospace Industry Sales by Product Group and Customer: 1990 to 2003

[In billions of dollars (134.4 represents \$134,400,000,000). Due to reporting practices and tabulating methods, figures may differ from those in Table 1019]

Product group and customer	Current dollars					Constant (1987) dollars ³				
	1990	2000	2001 ¹	2002 ²	2003 ²	1990	2000	2001 ¹	2002 ²	2003 ²
Total sales	134.4	144.7	153.1	148.2	138.4	123.7	108.6	112.0	106.5	98.6
PRODUCT GROUP										
Aircraft, total	71.4	82.1	86.3	80.3	70.8	65.7	61.7	63.1	57.7	50.4
Civil ⁴	31.3	48.4	51.3	43.3	31.5	28.8	36.4	37.5	31.2	22.4
Military	40.1	33.7	35.0	36.9	39.3	36.9	25.3	25.6	26.6	28
Missiles	14.2	9.5	10.4	12.4	12.7	13.1	7.1	7.6	8.9	9.0
Space	26.4	30.3	30.9	30.8	31.9	24.4	22.8	22.6	22.2	22.7
Related products and services ⁵	22.4	24.4	25.5	24.7	23.1	20.6	18.3	18.7	17.8	16.4
CUSTOMER GROUP										
Aerospace, total	112.0	121.8	127.6	123.5	115.4	103.1	91.5	93.4	88.8	82.2
DCD ⁶	60.5	47.0	49.5	54	58.4	55.7	35.3	36.2	38.8	41.6
NASA ⁷ and other agencies	11.1	13.3	14.5	13.5	12.7	10.0	10.0	10.6	9.7	9.0
Other customers ⁸	40.4	61.5	63.7	56.1	44.3	36.5	46.2	46.6	40.3	31.5
Related products and services ⁵	22.4	24.4	25.5	24.7	23.1	20.6	18.3	18.7	17.8	16.4

¹ Preliminary. ² Estimate. ³ Based on AIA's aerospace composite price deflator. ⁴ All civil sales of aircraft (domestic and export sales of jet transports, commuters, business, and personal aircraft and helicopters). ⁵ Electronics, software, and ground support equipment, plus sales of nonaerospace products which are produced by aerospace-manufacturing use technology, processes, and materials derived from aerospace products. ⁶ Department of Defense. ⁷ National Aeronautics and Space Administration. ⁸ Includes civil aircraft sales (see footnote 4), commercial space sales, all exports of military aircraft and missiles and related propulsion and parts.

Source: Aerospace Industries Association of America, Inc., Washington, DC, *2002 Year-end Review and Forecast*; and Internet site <<http://www.aia-aerospace.org>>.

No. 1023. Major Household Appliances—Value of Shipments: 1990 to 2002

[In millions of dollars (11,670.0 represents \$11,670,000,000)]

Product	Product code	1990	1995	1998	1999	2000	2001	2002
		Total	33522	11,670.0	13,966.2	15,551.4	16,622.3	17,041.0
Electric household ranges, ovens, and surface cooking units, equipment and parts	3352211110	1,659.8	1,791.8	2,242.9	2,197.1	2,170.3	2,004.5	1,918.4
Gas household ranges, ovens, and surfacecooking units, equipment and parts	3352213000	739.4	654.1	696.7	786.3	779.1	902.0	937.1
Other household ranges, cooking equipment, outdoor cooking equipment incl. parts and accessories	3352215000	581.1	911.6	1,029.0	1,218.6	1,251.1	1,027.0	1,054.0
Household refrigerators ^{1,2}	3352221000	3,208.1	4,739.4	5,035.6	4,968.8	5,395.8	5,227.1	5,164.3
Food freezers, complete units, for freezing and/or storing frozen food- (household type) ²	3352222000	226.6	(D)	(D)	(D)	(D)	(D)	(D)
Parts and attachments for household refrigerators and freezers	3352223000	134.0	111.8	89.7	92.4	99.4	63.7	77.9
Household laundry machines and parts	3352240000	2,924.5	3,095.4	3,327.3	4,029.7	4,046.6	4,162.0	4,296.4
Water heaters, electric	3352281000	433.8	513.0	541.3	580.0	572.7	555.7	576.0
Water heaters, except electric	3352283000	577.2	681.8	810.7	842.8	843.6	799.3	842.9
Household appliances, n.e.c. ³ and parts	3352285000	1,185.5	1,579.2	1,867.9	1,998.8	2,066.1	2,033.1	2,255.0

D Withheld to avoid disclosing data for individual companies. ¹ Includes combination refrigerator-freezers. ² Product code 3352221000 and 3352222000 are combined to avoid disclosing data for individual companies. ³ N.e.c. means not elsewhere classified.

Source: U.S. Census Bureau, 1990, Current Industrial Reports, Series MA36F; thereafter Series MA335F. See also <<http://www.census.gov/industry/1/ma335f02.pdf>> (released July 2003).