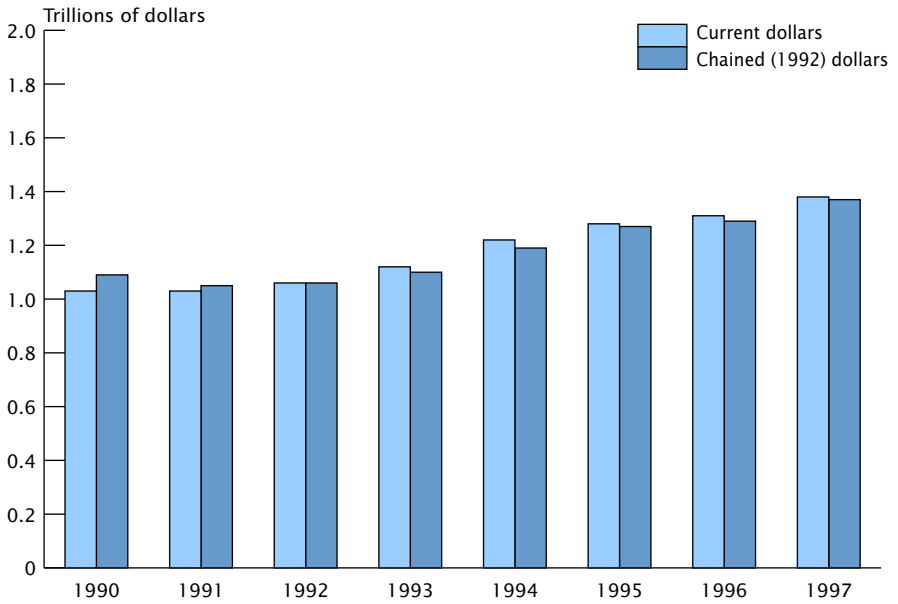


Figure 26.1

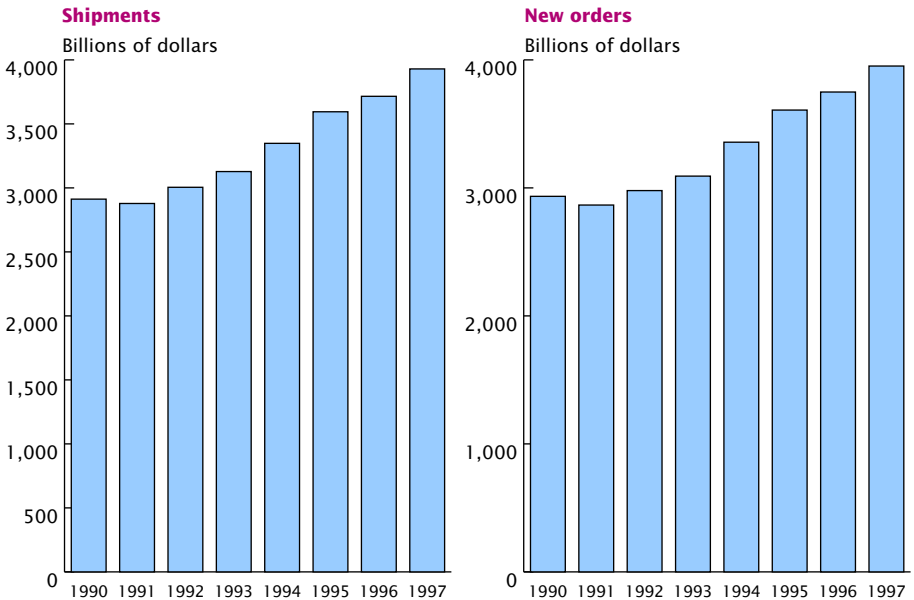
**Gross Domestic Product in Manufacturing: 1990 to 1997**



Source: Chart prepared by U.S. Census Bureau. For data, see Table 1231.

Figure 26.2

**Manufacturers Shipments, and New Orders: 1990 to 1997**



Source: Chart prepared by U.S. Census Bureau. For data, see Table 1237.

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## Section 26

# Manufactures

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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 *Manufacturing Profiles*, an annual compilation of the formerly printed series of *Current Industrial Reports*. Indexes of industrial production are presented monthly in the Federal Reserve Board's *Federal Reserve Bulletin*. These numbers were recently changed to a new index base year (1992 = 100) as of early 1997. 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 Census Bureau. 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 17, Business Enterprise.

**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 expected in 1999 and 2000. 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 1996 annual survey is based on a sample of about 58,000 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 1992 Census of Manufactures. For the current panel of the ASM sample, all establishments of companies with 1992 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—**

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 13). 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. This Manual defines an industry as a number of establishments producing a single product or a closely related group of products. In the main, 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. Beginning with 1997 census, the Manual will be replaced with a new way of organizing economic statistics called the North American Industry Classification System (NAICS) (see Table 1245 as an example and the new *North American Industry Classification System (NAICS) - United States, 1997*.

**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. 1231. Gross Domestic Product in Manufacturing in Current and Real (1992) Dollars, by Industry: 1990 to 1997

[In billions of dollars (5,743.8 represents \$5,743,837,000,000). 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	1990	1991	1992	1993	1994	1995	1996	1997
<b>CURRENT DOLLARS</b>								
<b>Gross domestic product . . . . .</b>	<b>5,743.8</b>	<b>5,916.7</b>	<b>6,244.4</b>	<b>6,558.1</b>	<b>6,947.0</b>	<b>7,269.6</b>	<b>7,661.6</b>	<b>8,110.9</b>
Manufacturing . . . . .	1,031.4	1,028.1	1,063.6	1,116.5	1,216.1	1,282.2	1,309.1	1,378.9
Durable goods . . . . .	572.8	558.3	573.4	615.7	679.2	716.8	737.3	784.0
Lumber and wood products . . . . .	31.8	30.0	32.0	34.6	38.4	40.9	39.1	42.8
Furniture and fixtures . . . . .	15.4	15.1	16.2	17.7	18.5	19.4	20.5	22.1
Stone, clay, and glass products . . . . .	24.8	22.9	25.1	25.1	28.8	30.2	31.3	33.7
Primary metal industries . . . . .	42.6	39.6	39.0	42.0	46.3	51.7	51.5	53.2
Fabricated metal products . . . . .	69.4	67.6	70.1	73.7	84.2	87.6	93.1	99.3
Industrial machinery . . . . .	114.8	105.7	108.6	110.9	122.3	141.5	148.8	158.9
Electronic & other electric equipment . . . . .	94.9	98.2	98.6	114.6	132.9	136.7	141.6	157.3
Motor vehicles and equipment . . . . .	46.1	42.3	52.8	71.5	87.4	85.2	82.4	85.4
Other transportation equipment . . . . .	60.5	62.0	56.5	53.5	49.5	46.1	49.0	50.7
Instruments and related products . . . . .	52.2	54.6	54.2	50.9	48.7	49.1	55.5	55.9
Misc. manufacturing industries . . . . .	20.2	20.3	20.1	21.1	22.2	23.3	24.6	24.8
Nondurable goods . . . . .	458.6	469.8	490.3	500.8	536.9	570.5	571.8	594.9
Food and kindred products . . . . .	94.2	99.2	102.1	103.2	109.6	123.2	116.0	118.5
Tobacco manufactures . . . . .	16.4	17.8	18.4	15.2	16.3	17.3	17.0	18.4
Textile mill products . . . . .	21.7	22.3	25.4	25.5	25.4	24.5	24.7	25.5
Apparel and other textile products . . . . .	25.2	25.9	27.2	27.4	28.2	27.4	26.7	28.4
Paper and allied products . . . . .	45.3	44.8	45.8	47.7	51.3	58.9	56.6	55.0
Printing and publishing . . . . .	73.9	75.9	79.7	80.0	86.0	84.7	92.4	98.4
Chemicals and allied products . . . . .	110.3	114.1	120.5	124.6	140.6	156.1	155.8	158.8
Petroleum and coal products . . . . .	33.0	29.7	28.2	31.3	30.4	28.3	29.6	35.2
Rubber and misc. plastic products . . . . .	34.0	35.7	38.1	41.3	44.4	44.9	48.6	52.0
Leather and leather products . . . . .	4.6	4.4	4.8	4.5	4.7	5.2	4.4	4.8
<b>CHAINED (1992) DOLLARS</b>								
<b>Gross domestic product, total <sup>1</sup> . . . . .</b>	<b>6,136.3</b>	<b>6,079.4</b>	<b>6,244.4</b>	<b>6,389.6</b>	<b>6,610.7</b>	<b>6,761.7</b>	<b>6,994.8</b>	<b>7,269.8</b>
Manufacturing . . . . .	1,090.0	1,050.2	1,063.6	1,100.8	1,193.2	1,271.6	1,293.8	1,369.9
Percent of all industries . . . . .								
Durable goods . . . . .	600.4	568.0	573.4	608.3	671.3	727.0	769.0	838.6
Lumber and wood products . . . . .	37.0	34.1	32.0	28.5	29.8	31.7	31.4	33.1
Furniture and fixtures . . . . .	15.8	14.9	16.2	17.9	18.0	18.7	18.6	19.7
Stone, clay, and glass products . . . . .	25.5	22.9	25.1	24.5	27.0	27.2	27.6	29.3
Primary metal industries . . . . .	39.0	38.6	39.0	43.2	45.0	44.1	46.9	48.0
Fabricated metal products . . . . .	72.6	68.2	70.1	73.4	84.5	87.8	88.6	93.0
Industrial machinery . . . . .	113.2	103.6	108.6	115.1	131.5	162.9	183.2	215.2
Electronic & other electric equipment . . . . .	92.5	95.9	98.6	118.3	145.8	178.7	213.2	261.2
Motor vehicles and equipment . . . . .	56.8	46.8	52.8	66.7	78.0	77.7	73.2	77.8
Other transportation equipment . . . . .	69.1	64.0	56.5	52.3	47.6	43.3	43.9	44.1
Instruments and related products . . . . .	58.7	58.0	54.2	48.7	45.1	42.0	40.2	36.3
Misc. manufacturing industries . . . . .	22.2	21.1	20.1	20.5	21.5	22.8	23.3	23.1
Nondurable goods . . . . .	489.4	482.2	490.3	492.5	522.0	545.1	527.8	537.6
Food and kindred products . . . . .	103.2	102.3	102.1	103.8	106.5	125.8	105.7	106.7
Tobacco manufactures . . . . .	24.9	21.5	18.4	16.1	22.3	23.8	22.5	21.3
Textile mill products . . . . .	22.6	23.1	25.4	26.0	27.3	26.4	25.6	25.7
Apparel and other textile products . . . . .	26.5	26.4	27.2	27.2	28.3	28.6	27.0	28.2
Paper and allied products . . . . .	44.1	44.6	45.8	50.2	52.1	44.4	46.4	48.9
Printing and publishing . . . . .	84.5	80.8	79.7	75.3	78.0	77.1	76.1	76.7
Chemicals and allied products . . . . .	117.3	115.8	120.5	120.6	131.2	139.6	140.3	141.2
Petroleum and coal products . . . . .	28.4	28.3	28.2	27.8	27.6	30.4	32.3	32.4
Rubber and misc. plastic products . . . . .	34.4	35.3	38.1	41.3	45.4	47.1	49.5	53.7
Leather and leather products . . . . .	4.8	4.5	4.8	4.5	4.5	4.7	4.1	4.3

<sup>1</sup> For additional industry detail, see Table 722.

Source: U.S. Bureau of Economic Analysis, *National Income and Product Accounts, 1929-94*, and *Survey of Current Business*, November 1998.

## No. 1232. Manufactures—Summary: 1982 to 1996

[For establishment coverage, see text, this section]

Item	Unit	1982	1987	1992	1994 <sup>1</sup>	1995 <sup>1</sup>	1996 <sup>1</sup>
<b>ALL ESTABLISHMENTS</b>							
<b>Number of establishments<sup>2</sup></b> . . . . .	<b>1,000</b> . . . . .	<b>358</b>	<b>369</b>	<b>382</b>	<b>(NA)</b>	<b>(NA)</b>	<b>(NA)</b>
With 20 or more employees . . . . .	1,000 . . . . .	123	126	125	(NA)	(NA)	(NA)
<b>Employee size-class:</b>							
Establishments <sup>3</sup> . . . . .	1,000 . . . . .	348	359	371	(NA)	(NA)	(NA)
Under 20 . . . . .	1,000 . . . . .	230	238	252	(NA)	(NA)	(NA)
20 to 99 . . . . .	1,000 . . . . .	84	86	85	(NA)	(NA)	(NA)
100 to 249 . . . . .	1,000 . . . . .	21	22	22	(NA)	(NA)	(NA)
250 to 999 . . . . .	1,000 . . . . .	11	11	11	(NA)	(NA)	(NA)
1,000 and over . . . . .	1,000 . . . . .	2	2	2	(NA)	(NA)	(NA)
<b>Form of organization:</b>							
Corporate . . . . .	1,000 . . . . .	283.2	287.4	304.0	(NA)	(NA)	(NA)
Noncorporate <sup>4</sup> . . . . .	1,000 . . . . .	74.0	81.5	77.7	(NA)	(NA)	(NA)
Individual proprietorship . . . . .	1,000 . . . . .	45.6	35.4	40.9	(NA)	(NA)	(NA)
Partnership . . . . .	1,000 . . . . .	15.0	13.2	10.3	(NA)	(NA)	(NA)
<b>All employees:<sup>5</sup></b>							
Annual average <sup>6</sup> . . . . .	Million . . . . .	19.094	18.952	18.205	18.327	18.730	18.667
Payroll . . . . .	Bil. dol. . . . .	379.6	475.7	559.1	593.6	624.4	645.1
Payroll per employee . . . . .	\$1,000 . . . . .	19.9	25.2	30.7	32.4	33.3	34.5
<b>Production workers:</b>							
Annual average . . . . .	Million . . . . .	12.401	12.280	11.641	11.947	12.253	12.169
Percent of all employees . . . . .	Percent . . . . .	64.9	64.8	63.9	65.2	65.4	65.2
Hours . . . . .	Billion . . . . .	23.5	24.3	23.6	24.6	25.1	25.0
Hours per worker . . . . .	1,000 . . . . .	1.898	1.979	2.024	2.056	2.046	2.055
Wages . . . . .	Bil. dol. . . . .	204.787	251.450	281.538	304.663	317.768	324.496
Percent of payroll for all employees . . . . .	Percent . . . . .	53.9	52.9	50.4	51.3	50.9	50.3
Wages per worker . . . . .	\$1,000 . . . . .	16.514	20.476	24.185	25.501	25.934	26.666
Wages per worker hour . . . . .	Dollar . . . . .	8.72	10.35	11.95	12.40	12.68	12.98
<b>Value added by manufacture<sup>7</sup></b>							
Per production worker . . . . .	Bil. dol. . . . .	824.1	1,165.7	1,425.2	1,598.0	1,711.4	1,749.7
Per production worker hour . . . . .	\$1,000 . . . . .	66.458	94.927	122.431	133.756	139.674	143.782
Per dollar of workers' wages . . . . .	Dollar . . . . .	35.06	47.97	60.56	65.39	68.26	69.96
Per dollar of workers' wages . . . . .	Dollar . . . . .	4.02	4.64	5.07	5.27	5.39	5.39
<b>Cost of materials<sup>8</sup></b>							
Value of shipments . . . . .	Bil. dol. . . . .	1,130	1,320	1,573	1,752	1,897	1,975
Per production worker . . . . .	Bil. dol. . . . .	1,960	2,476	3,005	3,340	3,594	3,715
End-of-year inventories <sup>9</sup> . . . . .	\$1,000 . . . . .	158.1	203.0	258.0	280.2	293.3	305.4
New capital expenditures . . . . .	Bil. dol. . . . .	307	333	374	397	421	427
New capital expenditures . . . . .	Bil. dol. . . . .	74.6	78.6	103.2	112.0	128.4	139.3
<b>Gross book value of depreciable assets</b>							
Machinery and equipment . . . . .	Bil. dol. . . . .	692	868	1,128	(NA)	(NA)	(NA)
Assets per employee . . . . .	Bil. dol. . . . .	527	671	896	(NA)	(NA)	(NA)
Assets per employee . . . . .	\$1,000 . . . . .	36.2	48.6	66.6	(NA)	(NA)	(NA)
<b>Operation ratios:</b>							
Value added to shipments . . . . .	Ratio . . . . .	42.0	47.1	47.9	48.0	47.7	47.1
Inventories to shipments . . . . .	Ratio . . . . .	15.7	13.4	12.5	11.9	11.7	11.5
Payroll to value added . . . . .	Ratio . . . . .	46.1	40.8	34.7	37.2	36.5	36.9
<b>MULTIUNIT COMPANIES</b>							
Establishments . . . . .	1,000 . . . . .	81.7	80.9	81.0	(NA)	(NA)	(NA)
Employees . . . . .	Million . . . . .	14.3	13.8	13.1	(NA)	(NA)	(NA)
Production workers . . . . .	Million . . . . .	8.8	8.5	8.0	(NA)	(NA)	(NA)
Payroll . . . . .	Bil. dol. . . . .	307.5	377.3	436.0	(NA)	(NA)	(NA)
Wages, production workers . . . . .	Bil. dol. . . . .	159.1	191.8	211.2	(NA)	(NA)	(NA)
Value added by manufacture . . . . .	Bil. dol. . . . .	678.4	953.6	1,160	(NA)	(NA)	(NA)
New capital expenditures . . . . .	Bil. dol. . . . .	65.2	66.5	87.8	(NA)	(NA)	(NA)
<b>SINGLE UNIT COMPANIES</b>							
Establishments . . . . .	1,000 . . . . .	276.3	288.0	300.7	(NA)	(NA)	(NA)
Employees . . . . .	Million . . . . .	4.8	5.1	5.1	(NA)	(NA)	(NA)
Payroll . . . . .	Bil. dol. . . . .	72.1	98.3	123.1	(NA)	(NA)	(NA)
Value added by manufacture . . . . .	Bil. dol. . . . .	145.7	212.1	265.0	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Estimated data based on *Annual Survey of Manufactures*; see text, *Manufactures* section. <sup>2</sup> Includes administrative and auxiliary units. <sup>3</sup> Excludes administrative offices and auxiliary units. <sup>4</sup> Includes forms of organization not shown separately. <sup>5</sup> Includes data for employees of manufacturing establishments engaged in distribution and construction work. <sup>6</sup> Data are based on pay periods ending nearest 15th of March, May, August, and November. <sup>7</sup> 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. <sup>8</sup> Includes extensive and unmeasurable duplication from shipments between establishments in the same industry classification. <sup>9</sup> Includes plants under construction and not yet in operation.

Note: Reports for manufacturing industries for 1997 from the *1997 Economic Census* are being issued on a flow basis beginning in the summer of 1999.

Source: Except as noted, U.S. Census Bureau, *Census of Manufactures, 1982, 1987, and 1992*; and *Annual Survey of Manufactures*.

### No. 1233. Manufactures—Summary, by Industry: 1992 and 1996

[16,949 represents 16,949,000. Data based on various editions of the *Standard Industrial Classification (SIC) Manual*, published by the Office of Management and Budget; see text, Section 26, Manufactures. N.e.c. = Not elsewhere classified]

Industry	SIC code	1992					1996						
		All employees		Production workers (1,000)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)	All employees			Value added by manufacture			
		Number <sup>1</sup> (1,000)	Payroll (mil. dol.)				Number <sup>1</sup> (1,000)	Total (mil. dol.)	Per employee (dol.)	Production workers (1,000)	Total (mil. dol.)	Per production worker (dol.)	Value of shipments (mil. dol.)
<b>All manufacturing establishments. . . . .</b>	<b>D</b>			<b>16,949</b>	<b>494,109</b>	<b>11,641</b>							
<b>Food and kindred products. . . . .</b>	<b>20</b>	<b>1,503</b>	<b>36,772</b>	<b>1,100</b>	<b>157,260</b>	<b>406,963</b>	<b>1,516.6</b>	<b>40,380</b>	<b>26,625</b>	<b>1,112.6</b>	<b>178,783</b>	<b>160,689</b>	<b>461,324</b>
Meat products . . . . .	201	400	7,564	343	19,141	94,072	433.4	8,921	20,584	370.2	23,518	63,528	102,103
Dairy products . . . . .	202	135	3,720	85	15,258	52,720	130.9	4,018	30,695	82.8	15,724	189,903	58,123
Preserved fruits and vegetables . . . . .	203	216	4,825	179	23,644	47,806	204.4	5,131	25,103	169.4	24,506	144,664	51,708
Grain mill products . . . . .	204	107	3,375	74	21,000	49,957	100.3	3,425	34,148	70.1	21,667	309,087	58,473
Bakery products . . . . .	205	215	5,599	133	17,905	28,494	219.9	6,158	28,004	136.6	20,712	151,625	32,741
Sugar and confectionery products . . . . .	206	91	2,402	71	10,950	22,710	88.6	2,603	29,379	68.7	12,640	183,988	26,265
Fats and oils . . . . .	207	28	778	19	3,770	18,724	25.8	813	31,512	17.8	4,258	239,213	23,388
Beverages . . . . .	208	144	4,786	74	29,260	57,957	142.8	5,103	35,735	71.5	35,210	492,448	68,887
Miscellaneous foods and kindred products . . . . .	209	166	3,723	121	16,333	34,523	170.9	4,209	24,628	125.5	20,548	163,729	40,136
<b>Tobacco products . . . . .</b>	<b>21</b>	<b>38</b>	<b>1,524</b>	<b>27</b>	<b>27,207</b>	<b>35,198</b>	<b>31.4</b>	<b>1,522</b>	<b>48,471</b>	<b>22.7</b>	<b>25,860</b>	<b>1,139,207</b>	<b>34,482</b>
Cigarettes . . . . .	211	25	1,205	19	24,802	29,746	20.5	1,236	60,293	14.7	23,442	1,594,694	28,987
Cigars . . . . .	212	3	53	2	190	287	2.9	66	22,759	2.2	287	130,455	450
Chewing and smoking tobacco . . . . .	213	3	92	2	1,213	1,608	2.4	76	31,667	1.8	1,508	837,778	1,818
Tobacco stemming and redrying . . . . .	214	7	174	5	1,002	3,557	5.5	144	26,182	4.0	624	156,000	3,228
<b>Textile mill products . . . . .</b>	<b>22</b>	<b>616</b>	<b>12,398</b>	<b>529</b>	<b>30,060</b>	<b>70,753</b>	<b>576.4</b>	<b>13,215</b>	<b>22,927</b>	<b>489.0</b>	<b>32,555</b>	<b>66,575</b>	<b>80,242</b>
Broadwoven fabric mills, cotton . . . . .	221	56	1,147	50	2,504	5,811	51.9	1,216	23,430	46.7	2,471	52,912	6,699
Broadwoven fabric mills, manmade . . . . .	222	87	1,850	77	4,008	8,767	73.9	1,816	24,574	63.0	4,307	68,365	9,750
Broadwoven fabric mills, wool . . . . .	223	14	279	12	691	1,612	13.4	298	22,239	11.7	673	57,521	1,756
Narrow fabric mills . . . . .	224	17	323	14	706	1,274	16.7	370	22,156	13.4	817	60,970	1,524
Knitting mills . . . . .	225	195	3,400	170	8,052	16,985	169.3	3,405	20,112	147.1	8,986	61,088	19,517
Textile finishing, except wool . . . . .	226	51	1,143	41	2,786	7,089	51.0	1,307	25,627	41.1	3,155	76,521	7,271
Carpets and rugs . . . . .	227	49	1,088	39	3,480	9,828	55.0	1,368	24,873	43.8	4,076	93,059	11,184
Yarn and thread mills . . . . .	228	92	1,744	84	4,059	11,274	83.9	1,805	21,514	75.7	3,806	50,277	12,823
Miscellaneous textile goods . . . . .	229	55	1,423	42	3,775	8,113	61.3	1,630	26,591	46.6	4,276	91,760	9,720
<b>Apparel and other textile products. . . . .</b>	<b>23</b>	<b>985</b>	<b>15,325</b>	<b>824</b>	<b>36,423</b>	<b>71,658</b>	<b>864.9</b>	<b>14,920</b>	<b>17,251</b>	<b>726.5</b>	<b>38,366</b>	<b>52,809</b>	<b>77,628</b>
Men's and boys' suits and coats . . . . .	231	44	723	37	1,375	2,430	27.1	516	19,041	22.2	1,239	55,811	1,968
Men's and boys' furnishings . . . . .	232	261	3,649	228	9,864	17,867	199.7	3,094	15,493	177.6	9,423	53,057	18,507
Women's and misses' outerwear . . . . .	233	306	4,597	256	10,836	21,631	294.1	4,606	15,661	249.5	11,045	44,269	22,282
Women's and children's undergarments . . . . .	234	54	798	46	2,193	3,943	38.1	645	16,929	32.0	1,916	59,875	4,244

See footnotes at end of table.

## No. 1233. Manufactures—Summary, by Industry: 1992 and 1996—Continued

[See headnote, page 745]

Industry	SIC code	1992					1996							
		All employees		Production workers (1,000)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)	All employees			Value added by manufacture				
		Number <sup>1</sup> (1,000)	Payroll (mil. dol.)				Payroll	Per employee (dol.)	Production workers (1,000)	Total (mil. dol.)	Per production worker (dol.)	Value of shipments (mil. dol.)		
				Number <sup>1</sup> (1,000)	Total (mil. dol.)	Per employee (dol.)							Production workers (1,000)	Total (mil. dol.)
<b>Apparel, other textile products—Con.</b>														
Hats, caps, and millinery. . . . .	235	19	280	16	572	976	17	307	17,953	14	599	41,888	977	
Girls' and children's outerwear. . . . .	236	53	775	44	1,667	3,145	34	542	16,179	28	2,063	75,018	3,874	
Fur goods . . . . .	237	1	21	1	68	172	1	14	17,500	1	34	68,000	104	
Miscellaneous apparel and accessories. . . . .	238	37	566	30	1,260	2,378	31	554	18,105	25	1,445	58,980	2,738	
Miscellaneous fabricated textile products. . . . .	239	211	3,918	169	8,586	19,118	224	4,641	20,737	179	10,603	59,401	22,934	
<b>Lumber and wood products . . . . .</b>	<b>24</b>	<b>656</b>	<b>13,882</b>	<b>540</b>	<b>33,154</b>	<b>81,565</b>	<b>739</b>	<b>17,314</b>	<b>23,438</b>	<b>613</b>	<b>41,486</b>	<b>67,699</b>	<b>106,518</b>	
Logging. . . . .	241	83	1,689	69	5,017	13,592	83	1,856	22,361	68	5,775	84,553	15,411	
Sawmills and planing mills . . . . .	242	168	3,585	144	8,848	23,294	172	4,129	24,076	147	10,404	70,583	29,697	
Millwork, plywood, and structural members . . . . .	243	224	5,005	181	10,844	24,744	257	6,233	24,225	209	13,274	63,451	31,798	
Wood containers . . . . .	244	40	645	33	1,321	2,942	51	893	17,544	43	1,909	44,707	4,059	
Wood buildings and mobile homes . . . . .	245	56	1,234	44	2,531	6,645	82	2,077	25,391	68	4,606	68,237	11,889	
Miscellaneous Wood Products. . . . .	249	84	1,725	69	4,593	10,348	94	2,125	22,558	78	5,518	70,925	13,664	
<b>Furniture and fixtures <sup>2</sup>. . . . .</b>	<b>25</b>	<b>471</b>	<b>10,227</b>	<b>372</b>	<b>22,840</b>	<b>43,826</b>	<b>515</b>	<b>12,414</b>	<b>24,128</b>	<b>414</b>	<b>27,200</b>	<b>65,669</b>	<b>55,697</b>	
Household furniture . . . . .	251	253	4,804	213	10,942	20,508	273	5,674	20,769	233	12,464	53,609	25,426	
Office Furniture. . . . .	252	68	1,868	51	4,626	7,979	70	2,172	31,252	53	5,447	102,195	9,444	
Public building and related furniture . . . . .	253	30	732	23	1,736	4,483	37	1,031	27,567	29	2,290	78,694	7,366	
Partitions and fixtures. . . . .	254	75	1,818	55	3,633	6,580	81	2,246	27,728	61	4,182	68,896	7,951	
Miscellaneous furniture and fixtures . . . . .	259	45	1,005	31	2,353	4,276	54	1,290	24,112	39	2,818	72,817	5,510	
<b>Paper and allied products . . . . .</b>	<b>26</b>	<b>626</b>	<b>20,492</b>	<b>479</b>	<b>60,174</b>	<b>133,201</b>	<b>631</b>	<b>22,947</b>	<b>36,389</b>	<b>488</b>	<b>72,290</b>	<b>148,287</b>	<b>160,661</b>	
Pulp mills. . . . .	261	16	689	12	2,554	5,466	15	701	46,733	11	2,201	198,288	5,508	
Paper mills. . . . .	262	131	5,421	100	14,848	32,786	116	5,599	48,101	90	18,848	208,726	39,566	
Paperboard mills. . . . .	263	52	2,136	39	8,195	16,140	55	2,599	47,427	42	9,655	231,535	20,271	
Paperboard containers and boxes . . . . .	265	199	5,722	151	12,406	32,655	212	6,727	31,731	163	15,668	96,300	40,389	
Miscellaneous converted paper products. . . . .	267	229	6,524	176	22,171	46,154	232	7,321	31,502	182	25,918	142,720	54,927	
<b>Printing and publishing. . . . .</b>	<b>27</b>	<b>1,492</b>	<b>41,136</b>	<b>785</b>	<b>112,446</b>	<b>166,153</b>	<b>1,515</b>	<b>46,175</b>	<b>30,479</b>	<b>801</b>	<b>130,946</b>	<b>163,539</b>	<b>195,435</b>	
Newspapers . . . . .	271	414	10,437	134	26,920	32,262	403	11,199	27,768	136	30,692	226,342	39,171	
Periodicals . . . . .	272	115	4,077	20	15,880	22,104	121	4,665	38,714	16	17,982	1,096,463	24,930	
Books . . . . .	273	130	4,037	57	14,325	21,378	136	4,675	34,451	57	17,857	313,281	26,696	
Miscellaneous publishing . . . . .	274	65	1,720	24	8,473	10,908	69	2,049	29,782	25	9,699	381,850	12,511	
Commercial printing. . . . .	275	567	15,337	408	31,898	56,229	604	18,015	29,806	437	38,407	87,828	67,842	
Manifold business forms . . . . .	276	48	1,341	34	3,922	7,429	41	1,263	30,507	28	3,878	138,996	7,724	
Greeting cards . . . . .	277	23	584	12	3,389	4,190	21	636	29,720	12	3,989	335,210	5,011	
Blankbooks and bookbinding . . . . .	278	66	1,461	51	3,640	5,049	65	1,598	24,775	50	4,388	87,936	6,428	
Printing trade services . . . . .	279	65	2,142	46	3,999	5,086	55	2,074	37,778	39	4,055	103,444	5,123	

See footnotes at end of table.

## No. 1233. Manufactures—Summary, by Industry: 1992 and 1996—Continued

[See headnote, page 745]

Industry	SIC code	1992					1996						
		All employees		Production workers (1,000)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)	All employees			Value added by manufacture			
		Number <sup>1</sup> (1,000)	Payroll (mil. dol.)				Number <sup>1</sup> (1,000)	Total (mil. dol.)	Per employee (dol.)	Production workers (1,000)	Total (mil. dol.)	Per production worker (dol.)	Value of shipments (mil. dol.)
<b>Chemicals and allied products. . . . .</b>	<b>28</b>	<b>849</b>	<b>32,502</b>	<b>479</b>	<b>164,346</b>	<b>305,420</b>	<b>824</b>	<b>36,331</b>	<b>44,086</b>	<b>477</b>	<b>194,412</b>	<b>407,743</b>	<b>367,442</b>
Industrial inorganic chemicals . . . . .	281	103	4,214	55	16,724	27,331	80	3,749	46,804	45	16,567	366,527	27,741
Plastics materials and synthetics . . . . .	282	129	5,137	86	20,979	48,698	115	5,086	44,188	79	25,025	315,574	59,567
Drugs . . . . .	283	194	7,840	93	48,602	67,792	213	9,891	46,393	106	59,813	562,152	86,533
Soap, cleaners, and toilet goods . . . . .	284	123	3,927	75	26,182	42,875	126	4,389	34,778	75	31,801	425,716	51,809
Paints and allied products . . . . .	285	51	1,710	26	7,154	14,973	51	1,940	37,965	28	8,497	304,552	18,257
Industrial organic chemicals . . . . .	286	125	5,495	72	26,132	64,397	126	6,765	53,733	75	28,886	386,693	75,672
Agricultural chemicals . . . . .	287	40	1,451	25	8,659	18,841	37	1,593	43,406	24	12,277	520,212	23,356
Miscellaneous chemical products . . . . .	289	84	2,727	48	9,915	20,512	76	2,919	38,408	45	11,547	256,031	24,508
<b>Petroleum and coal products. . . . .</b>	<b>29</b>	<b>114</b>	<b>4,967</b>	<b>74</b>	<b>23,408</b>	<b>150,227</b>	<b>106</b>	<b>5,238</b>	<b>49,415</b>	<b>69</b>	<b>31,656</b>	<b>458,119</b>	<b>174,285</b>
Petroleum refining . . . . .	291	75	3,640	48	18,607	136,551	67	3,738	55,625	43	26,006	599,217	158,068
Asphalt paving and roofing materials . . . . .	295	26	846	18	3,006	7,749	25	988	39,206	18	3,464	191,381	9,611
Miscellaneous petroleum and coal products . . . . .	299	14	481	7	1,796	5,927	14	512	37,647	8	2,187	287,763	6,605
<b>Rubber and misc. plastic products. . . . .</b>	<b>30</b>	<b>907</b>	<b>23,156</b>	<b>698</b>	<b>58,652</b>	<b>113,593</b>	<b>1,018</b>	<b>28,436</b>	<b>27,936</b>	<b>800</b>	<b>74,945</b>	<b>93,716</b>	<b>150,468</b>
Tires and inner tubes . . . . .	301	65	2,499	53	6,504	11,814	65	2,701	41,682	54	7,079	131,093	14,209
Rubber and plastics footwear . . . . .	302	14	216	11	464	868	8	165	20,122	7	442	65,970	936
Hose and belting and plastics and packing . . . . .	305	52	1,411	38	3,290	3,290	61	1,859	30,626	46	4,528	98,649	8,232
Fabricated rubber products, n.e.c. . . . .	306	105	2,617	79	6,024	11,474	122	3,137	25,819	95	7,275	76,418	14,468
Miscellaneous plastics products, n.e.c. . . . .	308	671	16,413	516	42,370	83,487	763	20,574	26,975	598	55,621	93,027	112,623
<b>Leather and leather products. . . . .</b>	<b>31</b>	<b>101</b>	<b>1,806</b>	<b>83</b>	<b>4,527</b>	<b>9,694</b>	<b>77</b>	<b>1,600</b>	<b>20,725</b>	<b>65</b>	<b>4,742</b>	<b>73,406</b>	<b>9,309</b>
Leather tanning and finishing . . . . .	311	17	420	13	891	2,905	15	393	26,554	12	1,313	105,887	3,134
Footwear cut stock . . . . .	313	4	63	3	149	317	3	58	21,481	2	162	77,143	326
Footwear, except rubber . . . . .	314	49	762	41	2,060	3,898	37	704	19,183	31	1,907	61,516	3,605
Leather gloves and mittens . . . . .	315	3	35	2	69	140	2	45	19,565	2	53	26,500	145
Luggage . . . . .	316	10	191	8	509	968	6	151	26,034	4	747	173,721	1,115
Handbags and personal leather goods . . . . .	317	11	202	9	470	861	8	139	16,951	7	328	49,697	580
Leather goods, n.e.c. . . . .	319	8	133	6	304	575	7	110	16,176	6	233	37,581	404

See footnotes at end of table.



**No. 1233. Manufactures—Summary, by Industry: 1992 and 1996—Continued**

[See headnote, page 745]

Industry	SIC code	1992					1996						
		All employees		Production workers (1,000)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)	All employees			Value added by manufacture			
		Number <sup>1</sup> (1,000)	Payroll (mil. dol.)				Payroll (mil. dol.)	Per employee (dol.)	Production workers (1,000)	Total (mil. dol.)	Per production worker (dol.)	Value of shipments (mil. dol.)	
<b>Stone, clay, and glass products . . . . .</b>	<b>32</b>			<b>469</b>	<b>13,113</b>	<b>357</b>							<b>34,641</b>
Flat glass . . . . .	321	12	451	10	1,311	2,073	12	524	45,565	9	1,717	184,624	2,671
Glass and glassware, pressed or blown . . . . .	322	66	2,075	56	5,900	9,033	60	2,029	34,101	51	6,532	127,082	10,057
Products of purchased glass . . . . .	323	55	1,369	42	3,757	6,904	64	1,771	27,890	50	4,850	97,782	9,060
Cement, hydraulic . . . . .	324	17	595	13	2,149	4,051	17	693	41,006	13	3,509	280,720	5,818
Structural clay products . . . . .	325	31	734	24	1,695	2,857	31	845	27,083	25	2,176	86,693	3,566
Pottery and related products . . . . .	326	37	863	29	1,995	2,817	45	1,149	25,647	36	2,696	74,066	3,830
Concrete, gypsum, and plaster products . . . . .	327	174	4,741	126	11,008	23,024	205	6,083	29,746	152	15,739	103,410	32,691
Cut stone and stone products . . . . .	328	12	282	9	604	1,007	17	412	24,094	13	999	76,846	1,512
Miscellaneous nonmetallic mineral products . . . . .	329	66	2,004	49	6,222	10,756	72	2,350	32,867	53	7,838	148,166	13,237
<b>Primary metal industries<sup>2</sup> . . . . .</b>	<b>33</b>	<b>662</b>	<b>22,202</b>	<b>508</b>	<b>52,027</b>	<b>138,287</b>	<b>687</b>	<b>25,644</b>	<b>37,306</b>	<b>543</b>	<b>69,539</b>	<b>128,088</b>	<b>178,298</b>
Blast furnace and basic steel products . . . . .	331	239	9,179	182	22,173	58,449	221	9,950	45,023	174	29,180	167,701	74,552
Iron and steel foundries . . . . .	332	122	3,739	99	6,873	11,860	128	4,373	34,111	106	9,061	85,240	15,937
Primary nonferrous metals . . . . .	333	35	1,334	27	3,391	13,905	35	1,408	40,344	26	4,200	159,091	15,424
Secondary nonferrous metals . . . . .	334	13	407	9	1,233	6,131	15	500	33,333	11	1,410	125,893	7,127
Nonferrous rolling and drawing . . . . .	335	147	4,635	109	12,335	37,101	162	5,627	34,670	123	16,670	135,971	48,820
Nonferrous foundries (castings) . . . . .	336	75	1,942	59	3,927	7,002	94	2,662	28,349	79	5,856	73,939	10,519
Miscellaneous primary metal products . . . . .	339	31	966	22	2,097	3,837	32	1,125	35,047	23	3,164	137,565	5,919
<b>Fabricated metal products . . . . .</b>	<b>34</b>	<b>1,362</b>	<b>38,962</b>	<b>994</b>	<b>83,761</b>	<b>166,532</b>	<b>1,483</b>	<b>46,130</b>	<b>31,106</b>	<b>1,114</b>	<b>107,990</b>	<b>96,904</b>	<b>214,006</b>
Metal cans and shipping containers . . . . .	341	40	1,465	33	3,736	13,263	33	1,369	41,485	27	3,999	148,111	13,454
Cutlery, handtools, and hardware . . . . .	342	134	3,648	99	9,044	15,448	140	4,220	30,164	107	11,750	109,506	20,197
Plumbing and heating, except electric . . . . .	343	42	1,152	29	3,105	5,825	45	1,246	27,566	32	4,412	139,620	7,836
Fabricated structural metal products . . . . .	344	389	10,362	275	21,256	44,876	432	12,555	29,042	315	27,974	88,863	59,388
Screw machine products, bolts, etc. . . . .	345	91	2,624	68	5,269	9,026	104	3,265	31,515	81	6,936	85,524	11,797
Metal forgings and stampings . . . . .	346	234	7,749	185	14,913	30,621	259	9,696	37,407	211	19,880	94,352	41,282
Metal services, n.e.c . . . . .	347	108	2,652	83	5,679	9,953	129	3,454	26,754	99	7,793	78,638	14,003
Ordnance and accessories, n.e.c . . . . .	348	62	2,124	35	4,536	6,855	40	1,466	36,377	24	3,528	146,390	5,222
Miscellaneous fabricated metal products . . . . .	349	263	7,185	186	16,224	30,667	300	8,858	29,497	219	21,718	99,350	40,828
<b>Industrial machinery and equipment . . . . .</b>	<b>35</b>	<b>1,739</b>	<b>57,231</b>	<b>1,086</b>	<b>132,923</b>	<b>258,661</b>	<b>1,981</b>	<b>70,730</b>	<b>35,713</b>	<b>1,287</b>	<b>187,218</b>	<b>145,469</b>	<b>381,794</b>
Engines and turbines . . . . .	351	83	3,135	52	7,738	17,549	79	3,186	40,534	55	10,513	192,899	23,554
Farm and garden machinery . . . . .	352	86	2,354	63	7,318	14,784	94	2,918	31,209	70	9,545	136,357	21,292
Construction and related machinery . . . . .	353	176	5,664	108	12,489	27,193	205	7,157	34,929	133	18,178	136,677	41,509
Metalworking machinery . . . . .	354	255	8,571	178	16,542	26,474	295	10,985	37,263	211	22,673	107,252	36,841
Special industry machinery . . . . .	355	162	5,515	91	11,667	21,522	192	7,311	38,019	110	19,221	174,895	35,751
General industrial machinery . . . . .	356	244	7,742	154	17,817	31,443	265	9,130	34,466	172	23,110	134,439	41,458
Computer and office equipment . . . . .	357	251	10,143	89	29,229	66,709	259	11,211	43,286	96	41,135	428,044	103,270
Refrigeration and service machinery . . . . .	358	179	5,264	125	13,597	27,544	201	6,493	32,384	147	17,521	119,029	39,197
Industrial machinery, n.e.c. . . . .	359	304	8,843	227	16,527	25,443	392	12,340	31,496	293	25,322	86,423	38,922

See footnotes at end of table.

## No. 1233. Manufactures—Summary, by Industry: 1992 and 1996—Continued

[See headnote, page 745]

Industry	SIC code	1992					1996						
		All employees		Production workers (1,000)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)	All employees			Value added by manufacture			
		Number <sup>1</sup> (1,000)	Payroll (mil. dol.)				Total (mil. dol.)	Per employee (dol.)	Production workers (1,000)	Total (mil. dol.)	Per production worker (dol.)	Value of shipments (mil. dol.)	
<b>Electronics; other electric equipment . . .</b>	<b>36</b>			<b>1,439</b>	<b>44,197</b>	<b>911</b>							<b>121,158</b>
Electric distribution equipment . . . . .	361	68	1,946	48	5,437	9,797	74	2,499	33,954	51	6,700	130,350	12,331
Electrical industrial apparatus . . . . .	362	157	4,387	106	10,850	19,266	171	5,373	31,366	120	14,278	119,182	26,926
Household appliances . . . . .	363	103	2,571	83	7,964	18,633	108	3,072	28,418	87	9,466	108,680	22,157
Electric lighting and wiring equipment . . . . .	364	148	3,974	107	11,307	19,844	157	4,617	29,370	117	13,428	114,769	24,562
Household audio and video equipment . . . . .	365	47	1,123	35	3,486	10,614	49	1,333	27,428	37	3,459	93,235	11,266
Communications equipment . . . . .	366	239	9,111	114	26,522	42,955	258	11,522	44,590	120	38,705	323,891	68,232
Electronic components and accessories . . . . .	367	530	16,752	317	44,305	73,642	588	20,830	35,431	368	84,059	228,359	127,996
Misc. electrical equipment and supplies . . . . .	369	147	4,332	100	11,287	22,013	151	5,067	33,490	106	13,920	130,827	27,146
<b>Transportation equipment . . . . .</b>	<b>37</b>	<b>1,647</b>	<b>62,735</b>	<b>1,080</b>	<b>158,326</b>	<b>399,269</b>	<b>1,467</b>	<b>63,532</b>	<b>43,310</b>	<b>1,032</b>	<b>176,598</b>	<b>171,089</b>	<b>465,172</b>
Motor vehicles and equipment . . . . .	371	703	26,213	565	80,935	238,384	772	32,867	42,574	634	105,899	167,139	329,155
Aircraft and parts . . . . .	372	548	22,647	281	47,661	104,858	377	18,733	49,729	190	45,220	237,500	83,394
Ship and boat building and repairing . . . . .	373	163	4,634	122	8,560	15,249	141	4,353	30,807	108	7,903	72,906	15,634
Railroad equipment . . . . .	374	28	900	21	2,015	4,714	31	1,141	37,288	23	2,590	114,097	7,067
Motorcycles, bicycles, and parts . . . . .	375	13	343	10	891	2,134	18	565	30,707	14	1,435	103,986	3,094
Guided missiles, space vehicles, parts . . . . .	376	146	6,780	50	15,246	26,508	81	4,632	57,185	29	9,986	346,736	17,928
Miscellaneous transportation equipment . . . . .	379	46	1,218	33	3,018	7,423	47	1,241	26,461	35	3,564	103,304	8,900
<b>Instruments and related products . . . . .</b>	<b>38</b>	<b>907</b>	<b>33,067</b>	<b>460</b>	<b>89,394</b>	<b>134,940</b>	<b>821</b>	<b>33,783</b>	<b>41,164</b>	<b>423</b>	<b>97,987</b>	<b>231,593</b>	<b>151,016</b>
Search and navigation equipment . . . . .	381	253	10,962	103	24,299	35,039	186	9,540	51,208	68	21,071	310,782	30,371
Measuring and controlling devices . . . . .	382	276	9,632	138	21,775	34,730	272	10,562	38,817	141	29,028	205,435	46,741
Medical instruments and supplies . . . . .	384	264	8,522	154	26,082	39,535	268	9,957	37,098	157	31,051	197,777	47,406
Ophthalmic goods . . . . .	385	29	714	20	1,938	2,675	27	757	28,037	17	2,390	140,588	3,417
Photographic equipment and supplies . . . . .	386	77	3,061	39	14,862	22,119	61	2,798	46,096	36	14,032	393,053	22,297
Watches, clocks, watchcases and parts . . . . .	387	8	177	6	438	843	6	169	26,825	4	415	96,512	785
<b>Misc. manufacturing industries . . . . .</b>	<b>39</b>	<b>366</b>	<b>8,417</b>	<b>255</b>	<b>21,975</b>	<b>39,498</b>	<b>397</b>	<b>10,042</b>	<b>25,276</b>	<b>283</b>	<b>27,021</b>	<b>95,346</b>	<b>48,597</b>
Jewelry, silverware, and plated ware . . . . .	391	46	1,068	32	2,501	5,731	43	1,070	24,711	30	2,761	92,651	6,360
Musical instruments . . . . .	393	12	273	9	589	982	13	328	25,426	10	685	66,505	1,173
Toys and sporting goods . . . . .	394	98	2,133	71	6,816	12,123	103	2,489	24,189	76	8,327	109,422	14,748
Pens, pencils, office, and art supplies . . . . .	395	30	684	21	2,030	3,515	35	838	24,220	26	2,643	102,442	4,351
Costume jewelry and notions . . . . .	396	27	557	19	1,366	2,316	24	560	23,045	19	1,406	75,187	2,389
Miscellaneous manufactures . . . . .	399	153	3,702	103	8,674	14,832	179	4,757	26,531	123	11,199	91,271	19,575

<sup>1</sup> Represents the average of production workers plus all other employees for the payroll period ended nearest the 15th of March. <sup>2</sup> Includes other industries not shown separately.

Note: Reports for manufacturing industries for 1997 from the 1997 *Economic Census* are being issued on a flow basis beginning in the summer of 1999.

Source: U.S. Census Bureau, 1992 *Census of Manufactures and Annual Survey of Manufactures*.

## No. 1234. Manufactures Summary: 1996

[18,667 represents 18,667,000. Sum of state totals may not add to U.S. total because U.S. and state figures were independently derived]

State	All employees <sup>1</sup>			Production workers <sup>1</sup>		Value added by manufactures <sup>2</sup>		
	Number (1,000)	Payroll		Total (1,000)	Wages (mil. dol.)	Total (mil. dol.)	Per production worker (dol.)	Value of shipments <sup>3</sup> (mil. dol.)
Total (mil. dol.)		Per employee (dol.)						
<b>United States . . . . .</b>	<b>18,667</b>	<b>645,140</b>	<b>34,561</b>	<b>12,169</b>	<b>324,612</b>	<b>1,750,493</b>	<b>143,847</b>	<b>3,719,743</b>
Alabama . . . . .	383	10,587	27,679	285	6,675	27,451	96,422	66,257
Alaska . . . . .	16	488	30,873	12	339	1,470	124,568	3,939
Arizona . . . . .	208	7,191	34,554	120	2,857	22,850	189,782	36,961
Arkansas . . . . .	239	5,829	24,410	188	4,036	18,512	98,414	44,310
California . . . . .	1,938	71,164	36,724	1,162	29,028	188,805	162,427	368,329
Colorado . . . . .	196	6,792	34,686	118	3,122	19,215	162,704	39,191
Connecticut . . . . .	299	12,785	42,802	153	4,699	24,772	161,484	44,369
Delaware . . . . .	60	2,840	47,178	27	784	5,791	212,890	13,601
District of Columbia . . . . .	13	630	49,180	3	97	1,512	504,133	1,975
Florida . . . . .	486	14,853	30,554	297	6,553	38,621	130,170	76,387
Georgia . . . . .	585	17,593	30,100	411	9,634	51,753	125,797	115,898
Hawaii . . . . .	17	509	29,789	10	251	1,609	159,257	3,146
Idaho . . . . .	74	2,383	32,152	53	1,312	7,977	149,944	18,315
Illinois . . . . .	996	36,986	37,124	625	17,625	92,011	147,171	196,845
Indiana . . . . .	660	22,976	34,812	477	14,290	61,896	129,678	133,787
Iowa . . . . .	250	7,839	31,307	177	4,725	27,021	153,092	61,981
Kansas . . . . .	209	6,902	32,994	145	4,006	18,820	129,970	46,152
Kentucky . . . . .	296	9,162	30,933	216	5,752	35,040	162,524	82,531
Louisiana . . . . .	175	6,037	34,439	123	3,706	25,125	203,606	75,961
Maine . . . . .	89	2,674	30,175	66	1,760	6,675	100,988	14,445
Maryland . . . . .	192	6,968	36,309	112	3,226	17,455	155,707	35,700
Massachusetts . . . . .	475	19,026	40,071	264	7,723	44,047	166,655	79,254
Michigan . . . . .	967	41,782	43,230	629	22,643	85,688	136,186	205,744
Minnesota . . . . .	432	15,590	36,071	256	6,886	34,716	135,399	73,273
Mississippi . . . . .	239	5,654	23,666	190	3,838	17,295	91,024	39,564
Missouri . . . . .	415	13,572	32,712	263	6,743	40,208	152,650	85,222
Montana . . . . .	22	588	26,584	15	376	1,707	111,582	4,930
Nebraska . . . . .	110	3,086	28,033	80	1,916	9,218	115,229	25,023
Nevada . . . . .	41	1,195	29,299	27	627	3,275	120,408	6,194
New Hampshire . . . . .	107	3,576	33,293	71	1,848	10,815	152,969	19,348
New Jersey . . . . .	540	22,919	42,419	279	7,905	49,995	179,257	96,001
New Mexico . . . . .	43	1,304	30,053	28	651	11,745	427,087	16,364
New York . . . . .	950	35,641	37,533	555	14,541	90,665	163,448	163,697
North Carolina . . . . .	856	23,796	27,815	628	13,879	76,475	121,814	155,911
North Dakota . . . . .	22	570	25,796	15	340	1,808	117,390	4,794
Ohio . . . . .	1,074	39,790	37,065	720	22,618	105,497	146,462	232,721
Oklahoma . . . . .	167	4,859	29,098	119	2,963	15,875	133,856	35,220
Oregon . . . . .	232	7,869	33,859	157	4,317	21,838	138,917	45,022
Pennsylvania . . . . .	918	31,978	34,849	590	16,026	82,922	140,594	165,889
Rhode Island . . . . .	83	2,565	30,870	55	1,261	5,407	97,779	9,959
South Carolina . . . . .	366	10,658	29,112	272	6,557	30,769	113,162	66,794
South Dakota . . . . .	46	1,220	26,746	32	651	3,974	125,753	10,488
Tennessee . . . . .	533	15,394	28,877	397	9,449	42,288	106,411	95,851
Texas . . . . .	1,055	36,008	34,131	665	17,032	116,631	175,464	284,151
Utah . . . . .	119	3,511	29,576	79	1,924	11,239	141,731	22,010
Vermont . . . . .	48	1,483	30,969	33	788	3,986	122,652	8,554
Virginia . . . . .	399	12,555	31,474	284	7,100	42,519	149,926	80,795
Washington . . . . .	342	13,197	38,610	207	6,429	31,929	154,169	71,874
West Virginia . . . . .	76	2,521	33,083	55	1,607	8,965	163,885	17,679
Wisconsin . . . . .	601	19,779	32,910	416	11,324	53,619	128,984	114,464
Wyoming . . . . .	10	268	27,608	7	175	999	140,746	2,874

<sup>1</sup> 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. <sup>2</sup> 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. <sup>3</sup> Includes extensive and unmeasurable duplication from shipments between establishments in the same industry classification.

Note: Reports for manufacturing by state for 1997 from the 1997 Economic Census are being issued on a flow basis beginning in the summer of 1999.

Source: U.S. Census Bureau, *Annual Survey of Manufactures, Geographic Area Statistics*, Series M96(A5)-3.

## No. 1235. Average Hourly Earnings of Production Workers in Manufacturing Industries, by State: 1980 to 1998

[In dollars]

State	1980	1990	1995	1997	1998	State	1980	1990	1995	1997	1998
<b>United States</b> . . .	<b>7.27</b>	<b>10.83</b>	<b>12.37</b>	<b>13.17</b>	<b>13.49</b>	Missouri . . . . .	7.26	10.74	12.17	12.98	13.35
Alabama . . . . .	6.49	9.39	11.14	11.86	12.11	Montana . . . . .	8.78	11.51	12.94	13.29	13.77
Alaska . . . . .	10.22	12.46	11.00	11.78	11.09	Nebraska . . . . .	7.38	9.66	11.19	12.10	12.32
Arizona . . . . .	7.29	10.21	11.16	11.67	12.18	Nevada . . . . .	7.72	11.05	12.62	14.17	14.42
Arkansas . . . . .	5.71	8.51	10.05	10.78	11.11	New Hampshire . . . . .	5.87	10.83	11.94	12.55	12.77
California . . . . .	7.70	11.48	12.55	13.24	13.67	New Jersey . . . . .	7.31	11.76	13.56	14.24	14.58
Colorado . . . . .	7.63	10.94	12.51	13.31	13.73	New Mexico . . . . .	5.79	9.04	10.68	11.74	12.51
Connecticut . . . . .	7.08	11.53	13.71	14.46	14.83	New York . . . . .	7.18	11.11	12.50	13.19	13.53
Delaware . . . . .	7.58	12.39	14.20	14.81	15.33	North Carolina . . . . .	5.37	8.79	10.56	11.41	11.84
District of Columbia <sup>1</sup> .	8.46	12.51	13.66	14.05	(NA)	North Dakota . . . . .	6.56	9.27	10.75	11.29	11.45
Florida . . . . .	5.98	8.98	10.18	10.95	11.43	Ohio . . . . .	8.57	12.64	14.42	15.30	15.78
Georgia . . . . .	5.77	9.17	10.71	11.64	12.04	Oklahoma . . . . .	7.36	10.73	11.52	12.36	12.62
Hawaii . . . . .	6.83	10.99	12.82	13.11	13.14	Oregon . . . . .	8.65	11.15	12.75	13.39	14.06
Idaho . . . . .	7.55	10.60	11.46	12.46	12.78	Pennsylvania . . . . .	7.59	11.04	12.81	13.78	14.07
Illinois . . . . .	8.02	11.44	12.64	13.35	13.74	Rhode Island . . . . .	5.59	9.45	10.62	11.31	11.59
Indiana . . . . .	8.49	12.03	13.91	14.79	14.96	South Carolina . . . . .	5.59	8.84	10.16	10.35	10.54
Iowa . . . . .	8.67	11.27	12.73	13.57	13.92	South Dakota . . . . .	6.50	8.48	9.36	9.96	10.22
Kansas . . . . .	7.37	10.94	12.39	13.45	13.85	Tennessee . . . . .	6.08	9.55	10.78	11.71	12.06
Kentucky . . . . .	7.34	10.70	12.22	13.17	13.80	Texas . . . . .	7.15	10.47	11.47	12.03	12.15
Louisiana . . . . .	7.74	11.61	13.43	14.14	14.64	Utah . . . . .	7.02	10.32	11.62	12.85	13.10
Maine . . . . .	6.00	10.59	12.39	13.12	13.50	Vermont . . . . .	6.14	10.52	12.21	12.70	13.03
Maryland . . . . .	7.61	11.57	13.49	14.14	14.31	Virginia . . . . .	6.22	10.07	11.72	12.51	12.91
Massachusetts . . . . .	6.51	11.39	12.79	13.42	13.79	Washington . . . . .	(NA)	12.61	14.73	15.16	15.75
Michigan . . . . .	9.52	13.86	16.31	17.18	17.57	West Virginia . . . . .	8.08	11.53	12.64	13.17	13.71
Minnesota . . . . .	7.61	11.23	12.79	13.63	13.91	Wisconsin . . . . .	8.03	11.11	12.76	13.66	14.04
Mississippi . . . . .	5.44	8.37	9.76	10.41	10.72	Wyoming . . . . .	7.01	10.83	11.96	14.54	14.88

NA Not available. <sup>1</sup> Washington PMSA (Primary Metropolitan Statistical Area).

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, May 1999 issue and earlier issues.

## No. 1236. Manufacturers' Shipments, Inventories, and New Orders: 1970 to 1997

[In billions of dollars, except ratio. 634 represents \$634,000,000,000]

Year	Shipments	Inventories (Dec. 31) <sup>1</sup>	Ratio of inventories to shipments <sup>2</sup>	New orders	Unfilled orders (Dec. 31)	Year	Shipments	Inventories (Dec. 31) <sup>1</sup>	Ratio of inventories to shipments <sup>2</sup>	New orders	Unfilled orders (Dec. 31)
1970 . . . . .	634	101	1.91	625	106	1984 . . . . .	2,288	334	1.75	2,315	370
1971 . . . . .	671	102	1.76	672	107	1985 . . . . .	2,334	330	1.72	2,348	384
1972 . . . . .	756	108	1.58	770	120	1986 . . . . .	2,336	318	1.63	2,342	390
1973 . . . . .	875	124	1.63	913	158	1987 . . . . .	2,476	333	1.58	2,513	427
1974 . . . . .	1,018	158	1.86	1,047	187	1988 . . . . .	2,695	363	1.56	2,739	471
						1989 . . . . .	2,840	385	1.65	2,875	505
1975 . . . . .	1,039	160	1.77	1,023	171	1990 . . . . .	2,912	398	1.70	2,934	527
1976 . . . . .	1,186	175	1.66	1,194	180	1991 . . . . .	2,878	384	1.65	2,866	515
1977 . . . . .	1,358	188	1.58	1,381	202	1992 . . . . .	3,005	375	1.47	2,979	489
1978 . . . . .	1,523	209	1.55	1,580	259	1993 . . . . .	3,128	376	1.44	3,092	453
1979 . . . . .	1,727	239	1.61	1,771	303	1994 . . . . .	3,348	396	1.38	3,357	462
1980 . . . . .	1,853	262	1.61	1,876	326	1995 . . . . .	3,595	421	1.42	3,608	475
1981 . . . . .	2,018	280	1.74	2,015	323	1996 . . . . .	3,715	427	1.39	3,749	509
1982 . . . . .	1,960	307	1.97	1,946	309	1997 . . . . .	3,929	446	1.36	3,952	532
1983 . . . . .	2,071	308	1.67	2,105	343						

<sup>1</sup> Beginning in 1982, inventories are stated at current cost and are not comparable to the book value estimates for prior years. <sup>2</sup> Ratio based on December seasonally adjusted data.

Source: U.S. Census Bureau, Current Industrial Reports, *Manufacturers' Shipments, Inventories, and Orders: 1987-1997*, Series M3-1(97); and earlier reports.

**No. 1237. Value of Manufactures' Shipments, Inventories, and New Orders, by Industry: 1993 to 1997**

[In millions of dollars (3,127,625 represents \$3,127,625,000,000). Based on 1987 Standard Industrial Classification (SIC). Based on a sample survey of most manufacturing companies with \$500 million or more in annual shipments]

Industry	SIC code	Shipments					Inventories (Dec. 31)					New orders				
		1993	1994	1995	1996	1997	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997
<b>All manufacturing industries . . .</b>	<b>D</b>	<b>3,127,625</b>	<b>3,348,019</b>	<b>3,594,663</b>	<b>3,715,460</b>	<b>3,929,419</b>	<b>375,982</b>	<b>395,974</b>	<b>421,285</b>	<b>427,130</b>	<b>446,131</b>	<b>3,092,381</b>	<b>3,356,797</b>	<b>3,607,586</b>	<b>3,749,299</b>	<b>3,952,025</b>
Durable goods . . . . .	(X)	1,630,635	1,789,576	1,927,029	2,004,159	2,158,699	233,306	247,001	261,138	266,547	278,766	1,596,974	1,794,508	1,941,378	2,036,536	2,180,708
Stone, clay, and glass products . . . .	32	65,610	71,230	75,932	82,442	90,221	7,443	7,688	8,359	8,679	8,832	65,945	71,562	76,085	82,142	89,893
Primary metals . . . . .	33	142,685	161,188	180,314	178,297	188,916	20,093	22,555	24,052	24,385	24,785	144,018	167,685	178,702	180,362	193,987
Fabricated metal products . . . . .	34	175,118	190,544	204,384	214,007	226,120	23,402	25,127	26,507	27,384	29,046	172,121	191,099	205,388	215,791	228,567
Industrial machinery and equipment . .	35	278,063	313,047	353,338	381,795	408,860	47,092	51,189	57,108	55,912	58,164	277,416	325,788	358,910	383,749	409,215
Computer and office equipment . . . .	357	69,249	78,230	91,343	103,270	111,334	10,473	10,640	12,630	10,277	9,869	68,497	81,595	91,045	103,689	108,986
Electronic and other . . . . .	36	233,622	266,405	301,447	320,616	351,554	30,765	34,571	37,991	37,953	39,102	233,991	266,386	307,634	319,157	356,557
Electronic components . . . . .	367	81,236	97,131	120,129	127,996	143,750	10,311	11,391	12,720	13,145	13,778	79,822	97,910	125,680	126,130	145,674
Transportation equipment <sup>1</sup> . . . . .	37	414,694	450,809	461,806	465,173	502,301	59,140	59,364	57,663	62,347	66,877	386,643	440,817	465,839	495,239	507,667
Motor vehicles and parts . . . . .	371	267,365	314,637	327,908	329,155	346,606	13,865	15,341	15,838	15,852	15,568	268,545	316,146	328,390	328,914	346,901
Aircraft, missiles, and parts . . . . .	372, 6	116,345	103,316	100,063	101,322	121,393	9,536	9,403	9,573	9,995	11,255	88,070	90,217	106,062	129,688	124,151
Instruments and related products . . .	38	137,387	138,400	144,719	151,017	162,981	22,492	22,273	24,233	24,517	25,143	133,249	133,232	144,175	149,344	165,453
All other durable goods . . . . .	(X)	183,456	197,953	205,089	210,812	227,746	22,879	24,234	25,225	25,370	26,817	183,591	197,939	204,645	210,752	229,369
Nondurable goods <sup>1</sup> . . . . .	(X)	1,496,990	1,558,443	1,667,634	1,711,301	1,770,720	142,676	148,973	160,147	160,583	167,365	1,495,407	1,562,289	1,666,208	1,712,763	1,771,317
Food and kindred products <sup>1</sup> . . . . .	20	422,220	430,963	446,961	461,297	470,447	31,529	32,652	34,827	35,973	37,301	(NA)	(NA)	(NA)	(NA)	(NA)
Beverages . . . . .	208	58,562	61,347	64,398	68,387	70,768	5,721	5,902	6,489	7,199	7,871	(NA)	(NA)	(NA)	(NA)	(NA)
Tobacco products . . . . .	21	28,383	30,021	32,984	34,482	38,693	6,575	6,063	6,100	6,256	6,149	(NA)	(NA)	(NA)	(NA)	(NA)
Textile mill products . . . . .	22	73,955	78,027	79,874	80,243	83,871	8,821	9,346	9,841	9,479	9,743	(NA)	(NA)	(NA)	(NA)	(NA)
Paper and allied products . . . . .	26	133,263	143,649	173,716	160,661	161,992	13,795	14,290	17,173	15,887	16,108	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products <sup>1</sup> . . . .	28	314,907	333,905	361,391	367,674	389,189	35,505	36,737	39,604	40,794	43,880	(NA)	(NA)	(NA)	(NA)	(NA)
Industrial chemicals . . . . .	281,2,6,8,9	158,771	169,909	186,970	184,018	193,265	17,142	17,710	19,157	19,603	20,335	(NA)	(NA)	(NA)	(NA)	(NA)
Drugs, soaps, toiletries . . . . .	283-4	117,888	122,352	130,932	138,573	150,016	13,964	14,425	15,596	16,099	18,195	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum and coal products . . . . .	29	144,834	143,328	151,439	174,284	177,314	9,865	10,661	10,829	12,046	11,806	(NA)	(NA)	(NA)	(NA)	(NA)
Rubber and plastics products . . . . .	30	122,777	135,145	145,739	150,467	156,599	12,770	14,145	15,093	15,584	16,300	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. X Not applicable. <sup>1</sup> Includes industries not shown separately.

Source: U.S. Census Bureau, Current Industrial Reports, Series M3-1(97), *Manufactures' Shipments, Inventories, and Orders: 1987-1997*.

**No. 1238. Value of Manufacturers' Shipments, Inventories, and New Orders, by Market Grouping: 1993 to 1997**

[In millions of dollars (3,127,625 represents 3,127,625,000,000). Based on 1987 Standard Industrial Classification (SIC). For definition of individual market groupings, see publication cited below. Based on a sample survey of most manufacturing companies with \$500 million or more in annual shipments]

Market grouping	Shipments					Inventories (Dec. 31)					New orders				
	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997
<b>All manufacturing industries . . . . .</b>	<b>3,127,625</b>	<b>3,348,019</b>	<b>3,594,663</b>	<b>3,715,460</b>	<b>3,929,419</b>	<b>375,982</b>	<b>395,974</b>	<b>421,285</b>	<b>427,130</b>	<b>446,131</b>	<b>3,092,381</b>	<b>3,356,797</b>	<b>3,607,586</b>	<b>3,749,299</b>	<b>3,952,025</b>
Market categories:															
Automotive equipment . . . . .	134,229	155,406	160,793	162,253	169,145	6,776	7,284	7,537	7,697	7,755	134,526	155,702	160,887	162,310	169,310
Home goods and apparel . . . . .	195,574	205,985	210,653	210,324	220,994	27,423	29,409	30,359	28,056	29,226	194,976	205,505	211,040	209,912	222,405
Consumer staples . . . . .	691,292	706,036	742,164	780,340	809,598	59,946	61,776	65,704	67,944	71,473	691,346	706,182	742,360	780,545	809,563
Machinery and equipment . . . . .	524,479	569,333	613,526	652,978	711,993	86,613	92,596	99,957	104,241	111,413	505,542	567,922	624,687	672,605	729,607
Business supplies . . . . .	248,468	258,551	276,451	289,085	302,490	21,886	23,155	25,052	25,326	26,644	248,203	258,913	276,675	289,251	302,437
Construction materials and supplies . . . . .	199,227	217,556	228,247	238,116	252,549	23,488	24,939	26,381	26,721	27,689	198,463	219,305	228,242	239,060	253,766
Defense products . . . . .	86,034	80,793	78,031	75,896	79,523	21,858	19,230	17,146	16,067	16,442	73,530	76,283	76,598	81,145	72,066
Other material, supplies and intermediate products . . . . .	1,048,322	1,154,359	1,284,798	1,306,468	1,383,127	127,992	137,585	149,149	151,078	155,489	1,045,795	1,166,985	1,287,097	1,314,471	1,392,871
Durable goods industries:															
Nondefense capital goods . . . . .	400,882	429,272	475,387	512,068	563,933	80,561	86,884	94,498	98,027	104,787	380,329	428,364	486,134	535,575	577,978
Excluding aircraft and parts . . . . .	330,245	368,193	413,760	448,495	483,149	55,908	60,949	68,579	66,453	69,237	331,278	380,160	418,414	450,084	490,101
Defense capital goods . . . . .	84,085	77,096	73,415	71,947	75,194	22,557	19,665	17,305	16,178	16,693	71,904	71,683	70,903	77,283	67,706
Durables excluding capital goods . . . . .	1,145,668	1,283,208	1,378,227	1,420,144	1,519,572	130,188	140,452	149,335	152,342	157,286	1,144,741	1,294,461	1,384,341	1,423,678	1,535,024
Miscellaneous series:															
Producers' durable equipment . . . . .	1,032,475	1,143,391	1,225,170	1,285,908	1,383,145	144,239	155,298	165,868	171,014	179,571	1,016,530	1,151,557	1,240,694	1,304,326	1,405,864
Household durable goods . . . . .	88,522	95,167	98,645	98,437	106,074	12,499	13,834	14,676	14,160	14,549	88,914	95,500	98,500	97,963	107,403
Information technology industries . . . . .	179,581	199,492	223,048	247,295	270,844	28,506	29,923	34,170	31,765	32,528	178,434	202,336	223,687	246,156	272,605
Health care equipment and products . . . . .	106,335	108,896	114,691	122,805	132,540	14,233	14,422	15,621	16,505	17,853	105,737	107,266	114,183	122,984	133,451

Source: U.S. Census Bureau, Current Industrial Reports, Series M3-1(97), *Manufactures' Shipments, Inventories, and Orders: 1987-1997*.

## No. 1239. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, by Industry Group: 1993 to 1997

[Based on seasonally adjusted data]

Industry	Inventory/shipments ratio					Unfilled orders/shipments ratio				
	1993	1994	1995	1996	1997	1993	1994	1995	1996	1997
<b>All manufacturing industries . . . . .</b>	<b>1.44</b>	<b>1.38</b>	<b>1.42</b>	<b>1.39</b>	<b>1.36</b>	<b>3.14</b>	<b>2.92</b>	<b>2.81</b>	<b>2.93</b>	<b>2.80</b>
Durable goods industries . . . . .	1.67	1.61	1.64	1.62	1.54	3.80	3.50	3.38	3.40	3.33
Stone, clay, and glass products . . . . .	1.32	1.25	1.31	1.31	1.18	1.23	1.17	1.14	1.05	0.87
Primary metals . . . . .	1.62	1.46	1.62	1.59	1.57	1.85	1.92	1.89	1.97	2.24
Fabricated metal products . . . . .	1.55	1.56	1.56	1.56	1.53	1.45	1.40	1.38	1.44	1.47
Industrial machinery and equipment . . . . .	1.95	1.92	1.91	1.77	1.69	2.26	2.53	2.43	2.36	2.18
Electronic and other electrical equipment . . . . .	1.57	1.55	1.50	1.44	1.33	2.21	1.94	1.96	1.82	1.81
Transportation equipment . . . . .	1.68	1.55	1.54	1.67	1.59	11.47	10.61	10.43	11.66	10.87
Instruments and related products . . . . .	2.00	1.94	2.00	1.97	1.84	4.10	4.18	3.91	3.69	3.54
Nondurable goods industries . . . . .	1.17	1.10	1.16	1.13	1.13	0.71	0.75	0.68	0.72	0.69
Food and kindred products . . . . .	0.88	0.85	0.90	0.93	0.92	(NA)	(NA)	(NA)	(NA)	(NA)
Tobacco products . . . . .	2.57	2.25	2.09	1.95	1.78	(NA)	(NA)	(NA)	(NA)	(NA)
Textile mill products . . . . .	1.50	1.44	1.58	1.44	1.45	(NA)	(NA)	(NA)	(NA)	(NA)
Paper and allied products . . . . .	1.25	1.10	1.23	1.22	1.13	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products . . . . .	1.36	1.25	1.33	1.32	1.34	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum and coal products . . . . .	0.95	0.89	0.89	0.81	0.88	(NA)	(NA)	(NA)	(NA)	(NA)
Rubber and plastics products . . . . .	1.21	1.17	1.25	1.26	1.22	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

Source: U.S. Census Bureau, Current Industrial Reports, *Manufacturers' Shipments, Inventories, and Orders: 1987-1997*, Series M3-1(97).

## No. 1240. Industrial Production Indexes, by Industry: 1980 to 1998

[1992=100. Beginning 1990, data based on 1987 Standard Industrial Classification (SIC), earlier years based on 1977 SIC; see text, Section 26, Manufactures]

Industry	SIC code	1980	1990	1991	1992	1993	1994	1995	1996	1997	1998
		<b>Total index . . . . .</b>	<b>(X)</b>	<b>79.7</b>	<b>98.9</b>	<b>97.0</b>	<b>100.0</b>	<b>103.5</b>	<b>109.1</b>	<b>114.4</b>	<b>119.5</b>
<b>Manufacturing . . . . .</b>	<b>(X)</b>	<b>75.5</b>	<b>98.5</b>	<b>96.2</b>	<b>100.0</b>	<b>103.7</b>	<b>109.9</b>	<b>115.9</b>	<b>121.4</b>	<b>129.7</b>	<b>135.1</b>
Durable goods . . . . .	(X)	73.4	99.0	95.5	100.0	105.4	114.2	124.0	134.1	147.1	157.5
Lumber and products . . . . .	24	80.4	101.6	94.5	100.0	100.8	105.9	107.9	110.4	114.2	116.9
Furniture and fixtures . . . . .	25	79.1	100.9	94.8	100.0	104.9	108.1	111.4	113.2	117.7	121.5
Stone, clay, and glass products . . . . .	32	96.5	105.0	97.2	100.0	102.1	107.8	110.9	118.3	122.3	125.9
Primary metals . . . . .	33	108.0	104.0	96.7	100.0	105.7	113.4	116.8	119.8	125.3	123.8
Iron and steel . . . . .	331,2	119.0	106.4	96.0	100.0	107.1	113.7	117.7	119.2	124.2	120.7
Fabricated metal products . . . . .	34	94.4	101.2	96.2	100.0	104.4	112.2	116.4	120.2	124.7	127.2
Industrial, commercial machinery <sup>1</sup> . . . . .	35	70.5	100.1	95.4	100.0	109.9	124.9	143.9	159.8	179.4	203.7
Computer and office equipment . . . . .	357	13.9	81.4	82.3	100.0	120.5	149.3	211.3	298.8	423.7	650.4
Electrical machinery . . . . .	36	48.6	87.7	89.6	100.0	109.6	131.4	166.3	206.0	253.4	291.5
Transportation equipment . . . . .	37	70.3	102.3	96.5	100.0	103.6	107.4	106.4	107.9	117.1	123.1
Motor vehicles and parts . . . . .	371	65.8	95.3	88.5	100.0	113.2	130.4	132.7	132.6	139.9	141.2
Autos and light trucks . . . . .	371pt	58.1	99.3	91.0	100.0	111.5	125.2	121.7	122.5	127.8	128.5
Aerospace and miscellaneous . . . . .	372-6,9	74.3	109.8	105.0	100.0	93.9	85.0	80.7	83.8	94.7	105.0
Instruments . . . . .	38	73.6	98.4	99.8	100.0	100.8	99.8	103.6	107.7	110.3	113.1
Nondurable goods . . . . .	(X)	78.3	97.9	97.0	100.0	101.8	105.2	107.1	107.9	111.3	112.0
Foods . . . . .	20	79.7	97.0	98.4	100.0	102.0	103.7	105.8	105.4	108.0	109.5
Tobacco products . . . . .	21	108.5	105.4	98.9	100.0	84.1	104.4	111.8	113.5	110.9	106.0
Textile mill products . . . . .	22	89.0	93.2	92.7	100.0	105.3	110.6	110.2	108.9	112.2	112.7
Paper and products . . . . .	26	75.2	96.0	96.8	100.0	104.0	108.4	109.6	108.8	114.4	115.2
Printing and publishing . . . . .	27	72.4	103.1	99.1	100.0	100.7	100.7	101.4	101.6	105.2	105.2
Chemicals and products . . . . .	28	75.9	97.3	96.4	100.0	101.5	104.7	107.3	110.0	114.9	115.5
Petroleum products . . . . .	29	95.9	100.3	99.1	100.0	102.9	102.7	104.5	106.8	109.8	112.2
Rubber and plastics products . . . . .	30	53.3	92.2	90.7	100.0	106.9	116.5	119.7	123.3	128.2	132.6
Leather and products . . . . .	31	181.6	107.8	98.4	100.0	101.0	93.6	86.9	87.3	81.9	75.3
<b>Mining . . . . .</b>	<b>C</b>	<b>111.5</b>	<b>104.8</b>	<b>102.6</b>	<b>100.0</b>	<b>99.9</b>	<b>102.4</b>	<b>102.0</b>	<b>103.7</b>	<b>105.8</b>	<b>104.1</b>
<b>Utilities . . . . .</b>	<b>(X)</b>	<b>87.3</b>	<b>98.3</b>	<b>100.4</b>	<b>100.0</b>	<b>103.9</b>	<b>105.3</b>	<b>109.0</b>	<b>112.6</b>	<b>112.8</b>	<b>114.6</b>

X Not applicable. <sup>1</sup> Includes computer equipment.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly; and *Industrial Production and Capacity Utilization*, Statistical Release G-17, monthly.

## No. 1241. Index of Manufacturing Capacity: 1980 to 1998

[1992 output=100. Annual figures are averages of quarterly data. Capacity represents estimated quantity of output relative to output in 1992 which the *current* stock of plant and equipment in manufacturing industries was capable of producing. Primary processing industries comprise textiles, lumber, paper and pulp, petroleum, rubber, stone, clay, glass, primary metals, fabricated metals, and a portion of chemicals. Advanced processing industries comprise chemical products, food, beverages, tobacco, apparel, furniture, printing and publishing, leather, machinery, transportation equipment, instruments, ordnance, and miscellaneous industry groups]

Year	Relation of output to capacity (percent)			Year	Relation of output to capacity (percent)				
	Index of capacity	All manufacturing	Primary processing		Advanced processing	Index of capacity	All manufacturing	Primary processing	Advanced processing
1980 . . . . .	95	79	77	81	1990 . . . . .	121	81	84	80
1981 . . . . .	98	78	77	79	1991 . . . . .	123	78	80	77
1982 . . . . .	100	72	69	73	1992 . . . . .	126	79	82	78
1983 . . . . .	102	74	74	74	1993 . . . . .	129	80	84	79
1984 . . . . .	105	80	80	80	1994 . . . . .	133	83	87	81
1985 . . . . .	109	79	79	79	1995 . . . . .	140	83	86	81
1986 . . . . .	112	79	80	78	1996 . . . . .	149	81	85	80
1987 . . . . .	114	81	84	80	1997 . . . . .	158	82	85	81
1988 . . . . .	116	84	87	82	1998 . . . . .	167	81	84	80
1989 . . . . .	118	84	86	82					

Source: Board of Governors of the Federal Reserve System, *Capacity Utilization In Manufacturing, Mining, Utilities, and Industrial Materials*, G.3., monthly.

## No. 1242. Finances and Profits of Manufacturing Corporations: 1980 to 1998

[In billions of dollars (1,897 represents \$1,897,000,000,000). Beginning 1990, data exclude estimates for corporations with less than \$250,000 in assets at time of sample selection. Prior years include estimates for corporations in this size category. See Table 911 for individual industry data]

Item	1980	1990	1991	1992	1993	1994	1995	1996	1997	1998
Net sales . . . . .	1,913	2,811	2,761	2,890	3,014	3,256	3,528	3,758	3,920	3,934
Net operating profit . . . . .	129	173	133	151	180	242	268	277	298	296
Net profit:										
Before taxes . . . . .	146	158	99	31	118	244	274	307	331	318
After taxes . . . . .	93	110	66	22	83	175	198	225	245	238
Cash dividends . . . . .	36	62	60	63	67	70	81	96	108	119
Net income retained in business . . . . .	58	48	6	-41	16	105	117	129	136	119

Source: 1980, U.S. Federal Trade Commission; thereafter, U.S. Census Bureau, *Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations*.

## No. 1243. U.S. Exports of Manufactures, Origin of World Exports of Manufacture: 1981 to 1996

[In billions of dollars (148 represents \$148,000,000,000), except percents]

Item	1981-85, average	1986-90, average	1992	1993	1994	1995	1996
<b>U.S. manufactures export value . . . . .</b>	<b>148</b>	<b>227</b>	<b>350</b>	<b>365</b>	<b>409</b>	<b>464</b>	<b>498</b>
Machinery & transport equipment . . . . .	92	141	215	225	252	283	307
Chemicals . . . . .	21	32	45	46	52	62	63
Other . . . . .	34	54	90	94	104	119	128
Origin of world exports of manufactures (percent):							
<b>United States <sup>1</sup> . . . . .</b>	<b>13.0</b>	<b>11.5</b>	<b>12.6</b>	<b>13.1</b>	<b>12.7</b>	<b>12.4</b>	<b>12.9</b>
Machinery & transport equipment . . . . .	17.1	14.6	15.8	16.4	15.7	14.9	15.5
Chemicals . . . . .	15.1	13.2	13.4	13.9	13.5	13.2	13.3
Other . . . . .	8.0	7.0	8.3	8.7	8.5	8.8	9.2
Germany <sup>2</sup> . . . . .	13.4	14.6	13.9	12.0	11.8	12.4	11.9
Japan . . . . .	13.4	12.4	11.8	12.6	11.8	11.4	10.2
Other G-7 countries <sup>3</sup> . . . . .	21.7	21.5	21.0	20.1	19.7	20.4	21.0
East Asian NICs <sup>4</sup> . . . . .	6.4	7.8	8.1	8.8	8.9	9.4	9.3

<sup>1</sup> U.S. exports are domestic exports only. <sup>2</sup> Prior to 1991, data are for former West Germany only. <sup>3</sup> Other Group of Seven (G-7) Countries: Canada, France, Italy, United Kingdom. <sup>4</sup> East Asian newly industrialized countries (NICs): Hong Kong, S. Korea, Singapore, Taiwan.

Source: U.S. Dept. of Commerce, International Trade Administration, Office of Trade and Economic Analysis. Based on United Nations Commodity Trade Statistics, *Statistical Yearbook of the Republic of China (Taiwan)*, and unpublished data.



## No. 1244. Alcoholic Beverages—Summary: 1980 to 1996

[193 mil. bbl. represents 193,000,000. For 1980-1985, stocks on hand for years ending June 30; later data for years ending September 30. All other items for fiscal years ending in year shown; see text, Section 9, State and Local Government. Includes Puerto Rico. Excludes imports]

Item	Unit	1980	1985	1990	1992	1993	1994	1995	1996, prel.
<b>Beer:</b>									
Breweries operated . . . . .	Number . . . . .	86	103	286	392	480	619	879	1,504
Production <sup>1</sup> . . . . .	Mil. bbl. <sup>2</sup> . . . . .	193	194	202	202	202	203	200	199
Value of shipments <sup>3</sup> . . . . .	Mil. dol. . . . .	9,362	12,216	15,186	17,302	16,629	16,714	17,108	18,196
Tax-paid withdrawals . . . . .	Mil. bbl. <sup>2</sup> . . . . .	172	175	182	182	180	180	177	177
Stocks on hand . . . . .	Mil. bbl. <sup>2</sup> . . . . .	15	14	14	13.4	13.7	13.4	13.5	13.3
<b>Distilled spirits:</b>									
Production facilities operated . . . . .	Number . . . . .	143	117	143	143	132	150	153	(NA)
Production <sup>4</sup> . . . . .	Mil. tax gal. <sup>5</sup> . . . . .	236	117	122	110	111	99	104	(NA)
Tax-paid withdrawals <sup>6</sup> . . . . .	Mil. tax gal. <sup>5</sup> . . . . .	330	306	251	246	240	229	235	(NA)
Stocks on hand <sup>4</sup> . . . . .	Mil. tax gal. <sup>5</sup> . . . . .	696	588	451	365	420	410	452	(NA)
<b>Whiskey:</b>									
Production <sup>1</sup> . . . . .	Mil. tax gal. <sup>5</sup> . . . . .	87	65	77	62	59	59	69	(NA)
Stocks on hand . . . . .	Mil. tax gal. <sup>5</sup> . . . . .	566	467	365	309	361	354	358	(NA)
<b>Still wines:</b>									
Production <sup>1</sup> . . . . .	Mil. wine gal. <sup>7</sup> . . . . .	982	622	577	484	417	438	412	577
Tax-paid withdrawals <sup>8</sup> . . . . .	Mil. wine gal. <sup>7</sup> . . . . .	340	414	468	387	354	356	366	382
Stocks on hand <sup>9</sup> . . . . .	Mil. wine gal. <sup>7</sup> . . . . .	486	602	562	525	520	477	398	473

NA Not available. <sup>1</sup> Production represents total amount removed from fermenters, including distilling material, and includes increase after fermentation (by amelioration, sweetening, and addition of wine spirits). <sup>2</sup> Barrels of 31 wine gallons. <sup>3</sup> Source: U.S. Census Bureau, *Census of Manufactures, and Annual Survey of Manufactures*. <sup>4</sup> Excludes alcohol produced for industrial use. Also excludes vodka and gin production. <sup>5</sup> For spirits of 100 proof or over, a tax gallon is equivalent to the proof gallon; for spirits of less than 100 proof, the tax gallon is equivalent to the wine gallon. A proof gallon is the alcoholic equivalent of a U.S. gallon at 60 degrees F, containing 50 percent of ethyl alcohol by volume. <sup>6</sup> Includes ethyl alcohol. <sup>7</sup> A wine gallon is the U.S. gallon equivalent to the volume of 231 cubic inches. <sup>8</sup> Includes special natural wines. <sup>9</sup> Excludes distilling materials.

Source: Except as noted, U.S. Bureau of Alcohol, Tobacco, and Firearms, *Alcohol and Tobacco Summary Statistics*, annual; beginning 1985, *Monthly Statistical Release, Distilled Spirits*, Report Symbol 76; and *Wines*, Report Symbol, ATF A:1 5120-3.

## No. 1245. Manufacturing (1997 NAICS Basis)—Summary: 1997

[Data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments with payroll]

Description	NAICS code	Establishments	Shipments (bil. dol.)	Annual payroll (bil. dol.)	Paid employees (1,000)
<b>Manufacturing, total . . . . .</b>		<b>364,377</b>	<b>3,855.5</b>	<b>574.1</b>	<b>16,999.6</b>
Food manufacturing . . . . .	311	26,970	425.3	38.9	1,489.6
Beverage & tobacco product . . . . .	312	2,774	96.6	6.8	177.3
Textile mills . . . . .	313	4,714	60.1	10.3	400.7
Textile product mills . . . . .	314	7,226	31.9	4.8	220.9
Apparel . . . . .	315	17,831	67.7	13.1	744.1
Leather & allied product . . . . .	316	1,824	10.7	1.9	89.7
Wood product . . . . .	321	17,101	88.7	14.4	572.1
Paper manufacturing . . . . .	322	5,925	150.7	22.3	573.5
Printing & related support activities . . . . .	323	43,054	98.7	26.4	846.7
Petroleum & coal products . . . . .	324	2,143	178.9	5.6	110.0
Chemical . . . . .	325	13,482	417.7	40.8	903.3
Plastics & rubber products . . . . .	326	16,686	159.0	29.8	1,024.4
Nonmetallic mineral product . . . . .	327	16,404	88.1	16.5	508.9
Primary metal . . . . .	331	5,298	173.9	24.1	609.3
Fabricated metal product . . . . .	332	62,684	245.9	57.3	1,780.0
Machinery . . . . .	333	30,580	271.5	53.4	1,435.0
Computer & electronic product . . . . .	334	17,240	431.4	71.4	1,689.8
Electrical equipment, appliance, & components . . . . .	335	7,108	112.4	19.0	595.2
Transportation equipment . . . . .	336	13,206	577.9	80.2	1,886.6
Furniture & related product . . . . .	337	20,694	65.4	15.1	606.7
Miscellaneous . . . . .	339	31,433	102.9	22.1	735.8

Source: U.S. Census Bureau, *1997 Economic Census, Core Business Statistics Series*, Series EC97X-CS1.

## No. 1246. Tobacco Products—Summary: 1980 to 1997

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

Item	Unit	1980	1990	1991	1992	1993	1994	1995	1996	1997
<b>PRODUCTION</b>										
Cigarettes . . . . .	Billions . . . . .	714	710	695	719	661	726	747	758	720
Cigars <sup>1</sup> . . . . .	Billions . . . . .	3.5	1.9	1.7	1.7	1.8	1.9	2.1	2.4	2.4
Tobacco . . . . .	Mil. lb. . . . .	163	142	142	141	133	132	131	131	134
Consumption per person <sup>2</sup> . . . . .	Lb. <sup>3</sup> . . . . .	7.9	5.5	5.4	5.4	5.0	5.0	5.0	4.7	4.5
Cigarettes . . . . .	1,000 . . . . .	4	3	3	3	3	3	3	3	2
Cigars <sup>4</sup> . . . . .	Number . . . . .	24	13	12	12	11	12	15	18	19
Consumer expenditures . . . . .	Bil. dol. . . . .	21.0	43.8	47.4	48.4	49.0	47.7	48.6	51.9	53.7
Cigarettes . . . . .	Bil. dol. . . . .	19.4	41.6	45.2	45.8	46.2	44.5	45.1	48.7	50.4
Cigars . . . . .	Bil. dol. . . . .	0.7	0.7	0.7	0.6	0.7	0.9	1.0	0.9	1.1
Other . . . . .	Bil. dol. . . . .	0.9	1.5	1.8	2.0	2.1	2.3	2.5	2.2	2.2

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

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

## No. 1247. Cotton, Wool, and Manmade Fibers—Consumption, by End-Use: 1997

[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 <sup>1</sup>				Synthetic <sup>2</sup>	
						Total (mil. lb.)	Percent of end- use	Total (mil. lb.)	Percent of end- use	Total (mil. lb.)	Percent of end- use
<b>Total . . . . .</b>	<b>17,622</b>	<b>5,395</b>	<b>30.6</b>	<b>196</b>	<b>1.1</b>	<b>12,031</b>	<b>68.3</b>	<b>444</b>	<b>2.5</b>	<b>11,587</b>	<b>65.8</b>
Apparel . . . . .	7,030	3,441	48.9	142	2.0	3,448	49.0	248	3.5	3,200	45.5
Home textiles . . . . .	2,733	1,564	57.2	13	0.5	1,156	42.3	78	2.9	1,078	39.5
Floor coverings . . . . .	4,063	31	0.8	26	0.6	4,006	98.6	-	0.0	4,006	98.6
Industrial <sup>3</sup> . . . . .	3,797	360	9.5	15	0.4	3,421	90.1	119	3.1	3,303	87.0

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

Source: Fiber Economics Bureau, Inc., Washington, DC, *Textile Organon*, monthly (copyright).

## No. 1248. Broadwoven and Knit Fabrics—Shipments, Foreign Trade, and Apparent Consumption: 1997

[4,246,048 represents 4,246,048,000. Fabric blends as shown in the CIR report, MQ22T are reported based on the chief weight of the fiber; whereas, fabric 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	Apparent consumption (quantity)
		Quantity	Value <sup>1</sup> (\$1,000)		Quantity	Value (\$1,000)		
<b>BROADWOVEN FABRICS</b> (quantity 1,000 sq. meters)								
Cotton fabrics <sup>2</sup> . . . . .	4,246,048	1,591,422	1,800,985	37.5	300,772	690,927	7.1	5,536,698
Manmade fiber fabrics . . . . .	9,794,370	1,026,708	1,406,822	10.8	442,025	988,050	4.7	10,074,779
Silk fabrics . . . . .	808	31,708	320,284	3,925.8	2,710	20,931	335.5	29,806
Wool fabrics . . . . .	146,510	31,460	310,213	21.5	13,340	68,933	9.1	164,630
<b>KNIT FABRICS</b> (quantity in 1,000 kilograms)								
<b>Total . . . . .</b>	<b>909,027</b>	<b>74,210</b>	<b>713,407</b>	<b>8.2</b>	<b>72,080</b>	<b>614,871</b>	<b>7.9</b>	<b>906,897</b>
Pile fabrics . . . . .	80,561	34,237	367,861	42.5	18,855	188,431	23.4	65,179
Elastic fabric . . . . .	37,983	336	5,034	0.9	11,354	113,680	29.9	49,001
Other warp knit fabrics . . . . .	93,998	9,312	92,640	9.9	5,631	61,992	6.0	90,317
Other narrow knit fabrics . . . . .	5,397	847	9,618	15.7	4,698	39,466	87.0	9,248
Other knit fabrics . . . . .	691,088	29,478	238,254	4.3	31,542	211,302	4.6	693,152

<sup>1</sup> 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. <sup>2</sup> Includes all cotton and chiefly cotton mixed with manmade fiber. products, however; export data is available on a total basis.

Source: U.S. Census Bureau, *Manufacturing Profiles*, Series MP.

## No. 1249. Selected Apparel—Shipments, Foreign Trade, and Apparent Consumption: 1997

[Quantity in thousands of units (11,887 represents 11,887,000), value in millions of dollars (188.7 represents \$188,700,000)]

Product description	Manufacturers' shipments		Exports of domestic merchandise		Imports for consumption		Apparent consumption	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Men's and boys' apparel:</b>								
Sweaters . . . . .	11,887	188.7	52,452	168.7	45,576	571.7	5,011	591.7
Tops, except sweaters . . . . .	(D)	(D)	525,192	1,261.7	1,620,516	7,710.3	(D)	(D)
Bottoms . . . . .	602,289	7,793.4	300,120	1,172.7	715,920	4,703.3	1,018,089	11,324.0
<b>Coats:</b>								
Suit type, dress and sport . . . . .	11,784	731.3	5,976	61.2	14,160	494.3	19,968	1,164.4
Other coats . . . . .	57,643	1,664.3	17,112	94.0	144,684	2,312.0	185,215	3,882.3
Suits . . . . .	9,296	792.5	3,768	41.8	83,940	582.9	89,468	1,333.6
Swimwear . . . . .	1,940	32.3	876	4.2	43,608	151.1	44,672	179.2
<b>Women's and girls' apparel:</b>								
Sweaters . . . . .	56,153	743.8	2,808	15.1	193,344	2,056.6	246,689	2,785.3
Dresses . . . . .	178,702	4,341.3	28,896	147.7	200,736	1,980.3	350,542	6,173.9
Tops, except sweaters . . . . .	(D)	(D)	220,632	469.8	1,194,240	6,437.9	(D)	(D)
Skirts . . . . .	76,131	1,119.7	11,496	53.3	125,004	978.2	189,639	2,044.6
Coats and jackets . . . . .	52,117	1,921.4	19,224	155.3	152,628	2,696.6	185,521	4,462.7
Bottoms, except skirts . . . . .	526,438	5,569.5	159,960	543.9	590,628	4,082.9	957,106	9,108.5
Suits . . . . .	(D)	(D)	7,008	60.7	111,192	347.8	(D)	(D)
Swimwear . . . . .	55,846	938.3	12,264	56.5	41,448	237.1	85,030	1,118.9
Infants' apparel . . . . .	159,018	719.6	135,828	163.3	501,336	1,231.5	524,526	1,787.8

D Data withheld to avoid disclosing figures or individual companies.

Source: U.S. Census Bureau, *Manufacturing Profiles*, Series MP/96. and <<http://www.census.gov/ftp/pub/industry/1/mq23a975.pdf>> (issued 19 August 1998).

## No. 1250. Footwear—Production, Foreign Trade, and Apparent Consumption: 1997

[Quantity in thousands of pairs (188,304 represents 188,304,000 pairs), value in thousands of dollars (412,057 represents \$412,057,000)]

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		
<b>Total . . . . .</b>	<b>188,434</b>	<b>27,731</b>	<b>412,057</b>	<b>14.7</b>	<b>1,459,736</b>	<b>15,137,411</b>	<b>1,620,439</b>	<b>90.1</b>
Rubber or plastic uppers and rubber or plastic soles . . . . .	21,338	4,307	44,492	20.2	517,924	3,095,025	534,955	96.8
Waterproof . . . . .	12,299	384	5,219	3.1	3,389	26,046	15,304	22.1
Not waterproof . . . . .	9,039	3,923	39,273	43.4	514,535	3,068,979	519,651	99.0
Leather uppers . . . . .	66,296	11,287	274,734	17.0	628,766	9,845,954	683,775	92.0
Athletic . . . . .	5,061	7,080	156,680	139.9	434,992	5,961,894	432,973	100.5
Leather soles . . . . .	21,767	2,816	77,819	12.9	52,213	1,282,976	71,164	73.4
Made with steel safety toes . . . . .	1,724	173	9,588	10.0	8,584	193,321	10,135	84.7
Boots, ex. with steel safety toes . . . . .	6,824	488	14,265	7.2	4,682	112,721	11,018	42.5
Shoes, ex. with steel safety toes . . . . .	13,219	2,155	53,966	16.3	38,947	976,934	50,011	77.9
Other soles . . . . .	39,468	1,391	40,235	3.5	141,561	2,601,084	179,638	78.8
Made with steel safety toes . . . . .	1,965	-	-	(NA)	-	-	1,965	0.0
Boots, ex. with steel safety toes . . . . .	7,952	1,391	40,235	17.5	141,561	2,601,084	148,122	95.6
Shoes, ex. with steel safety toes . . . . .	29,551	-	-	(NA)	-	-	29,551	0.0
Fabric uppers . . . . .	85,884	9,624	92,831	11.2	313,046	2,196,432	389,306	80.4
Rubber or plastic soles . . . . .	57,752	7,111	73,625	12.3	255,355	1,780,502	305,996	83.5
Athletic . . . . .	14,538	5,931	62,929	(D)	82,986	1,105,174	(D)	(D)
All other . . . . .	43,214	1,180	10,696	(D)	172,369	675,328	(D)	(D)
With all other soles . . . . .	28,132	2,513	19,206	8.9	57,691	415,930	72,677	79.4

- Represents zero. D Data withheld to avoid disclosure. NA Not available.

Source: U.S. Census Bureau, *Manufacturing Profiles*, Series MP/97, annual; and <<http://ftp.census.gov/pub/industry/1/ma31a97.pdf>> (released 13 August 1998).

## No. 1251. Inorganic Fertilizers, Chemicals, and Pharmaceutical Preparations—Value of Shipments: 1990 to 1997

[In millions of dollars (1,072 represents \$1,072,000,000)]

Product	Product code	Unit	1990	1994	1995	1996	1997
<b>INORGANIC FERTILIZERS</b>							
Ammonia, synthetic anhydrous . . . . .	28731 31	Mil. dol . . .	1,072	1,509	1,662	1,690	1,578
Ammonium sulfate . . . . .	28731 57	Mil. dol . . .	130	165	1,953	214	181
Urea (100%) . . . . .	28732	Mil. dol . . .	640	657	848	912	772
Nitric acid (100%) . . . . .	28731 11	Mil. dol . . .	81	118	168	197	216
Phosphoric acid (100% P2O5) . . . . .	28741 81.85	Mil. dol . . .	1,226	1,085	1,220	1,227	1,405
Sulfuric acid, gross (100%) . . . . .	28193	Mil. dol . . .	589	488	539	578	528
Superphosphates and other fertilizer materials . . . . .	28742	Mil. dol . . .	2,711	2,830	3,594	3,928	3,675
<b>INORGANIC CHEMICAL SHIPMENTS</b>							
Alkalies and chlorine . . . . .	2812	Mil. dol . . .	3,187	2,275	3,169	3,212	3,070
Inorganic color pigments . . . . .	2816	Mil. dol . . .	2,261	2,471	2,284	2,487	2,659
Inorganic chemicals n.e.c. . . . .	2819	Mil. dol . . .	13,612	12,676	14,179	14,526	14,512
Household bleaching compounds . . . . .	28422 00	Mil. dol . . .	724	955	923	891	920
<b>PHARMACEUTICAL PREP. SHIPMENTS</b>							
<b>Pharmaceutical preparations, except biologicals . . . . .</b>		<b>Mil. dol . . .</b>	<b>33,954</b>	<b>48,209</b>	<b>48,864</b>	<b>51,844</b>	<b>62,593</b>
Affecting neoplasms, endocrine systems, and metabolic disease . . . . .	28341	Mil. dol . . .	2,743	4,120	4,076	4,788	6,873
Acting on the central nervous system and sense organs . . . . .	28342	Mil. dol . . .	7,219	8,990	9,228	10,123	12,280
Acting on the cardiovascular system . . . . .	28343	Mil. dol . . .	4,815	5,674	5,988	6,912	8,262
Acting on the respiratory system . . . . .	28344	Mil. dol . . .	3,724	5,566	5,196	4,994	5,486
Acting on the digestive system . . . . .	28345	Mil. dol . . .	4,840	8,479	8,593	8,494	10,100
Acting on the skin . . . . .	28346	Mil. dol . . .	1,558	2,090	2,171	2,185	1,982
Vitamin, nutrient, and hematonic preps. . . . .	28347	Mil. dol . . .	2,588	4,402	4,812	5,281	7,109
Affecting parasitic and infective disease . . . . .	28348	Mil. dol . . .	5,411	7,257	7,196	7,304	8,690
Pharmaceutical preps. for veterinary use . . . . .	28349	Mil. dol . . .	1,057	1,631	1,605	1,763	1,813

Source: U.S. Census Bureau, through 1992, *Current Industrial Reports*, MA28A, and MA28G, annual; thereafter, *Manufacturing Profiles*, Series MP, annual.

## No. 1252. Fiber, Rugs, Carpeting, and Sheets—Shipments: 1990 to 1997

Product	Unit	1990	1992	1993	1994	1995	1996	1997
All fibers <sup>1</sup>	Mil. lbs.	812	926	1,008	1,036	953	912	905
Raw wool	Mil. lbs.	133	151	157	153	142	142	144
Noils, and fiber <sup>4</sup>	Mil. lbs.	20	21	23	19	20	23	20
Other fibers	Mil. lbs.	659	754	829	864	792	748	740
Knit fabric production	Mil. lbs.	1,901	2,179	2,188	2,211	2,131	1,919	1,974
Rugs, carpet and carpeting	Mil. dol.	8,527	8,749	9,283	9,531	9,770	10,148	10,262
Sheets	1,000 doz.	14,716	15,300	16,331	16,190	15,282	16,108	16,480
Pillow cases	1,000 doz.	12,443	12,945	14,464	14,622	14,232	14,234	15,305
Terry towels	1,000 doz.	41,855	46,885	47,161	48,348	47,939	46,991	44,940

<sup>1</sup> Includes man-made fiber top converted from tow without combing. A number of companies were added for 1990 based on information in the 1987 Census of Manufactures. Data were received from these companies for 1990; therefore, the information shown for years prior to 1990 may not be directly comparable. These changes represent approximately 20 percent of the total fibers consumed on the woolen system and worsted combing. <sup>2</sup> Data are shown on a scoured basis for greasy wool. <sup>3</sup> Shorn and pulled wool of sheep excludes raw wool consumed in cotton system spinning to avoid disclosing figures for individual companies. <sup>4</sup> Includes reprocessed and reused wool, mohair, alpaca, vicuna, and other specialty fibers as well as tops and noils consumed in woolen spinning and mohair consumed in worsted combing. Does not include wool tops consumed in cotton system spinning.

Source: U.S. Census Bureau, 1990 and 1992, *Current Industrial Reports*, MA22K, MA22Q, and MQ23X, annual; thereafter, *Manufacturing Profiles*, Series MP, annual.

## No. 1253. Glass Containers, Clay Construction Products, and Refractories—Shipments: 1990 to 1997

[In millions of dollars (285 represents 285,000,000)]

Product	1990	1992	1993	1994	1995	1996	1997
Glass container shipments	285	283	290	285	269	257	254
Brick shipments <sup>1</sup>	1,014	920	990	1,102	1,092	1,235	1,340
Clay tile shipments <sup>2</sup>	687	646	687	756	728	779	874
Clay pipe and fittings shipments	60	38	33	33	35	45	44
Refractory shipments	2,003	1,956	1,930	2,047	2,222	2,341	2,404
Clay	771	786	773	906	941	930	968
Nonclay	1,232	1,170	1,157	1,141	1,282	1,411	1,436

<sup>1</sup> Building or common and face bricks. <sup>2</sup> Floor and wall tile including quarry tile.

Source: U.S. Census Bureau, 1990 and 1992, *Current Industrial Reports*, M32G, MQ32D, and MA32C, annual; thereafter, *Manufacturing Profiles*, Series MP, annual.

## No. 1254. Aluminum Mill Products—Shipments, by Product: 1997 and 1998

[Quantity in thousands of pounds (16,311,489 represents 16,311,489,000), receipts in thousands of dollars (1,321,202 represents \$1,321,202,000)]

Product description	1997			1998		
	Gross shipments	Total receipts	Net shipments <sup>1</sup>	Gross shipments	Total receipts	Net shipments <sup>1</sup>
<b>Aluminum mill products, total.</b>	<b>16,311,489</b>	<b>1,321,202</b>	<b>14,990,287</b>	<b>16,545,857</b>	<b>1,367,202</b>	<b>15,178,655</b>
Sheet, plate, and foil	11,165,874	775,043	10,390,831	11,278,670	834,265	10,444,405
Sheet	9,624,301	775,043	8,849,258	9,717,288	834,265	8,883,023
Plate	402,487	-	402,487	408,596	-	408,596
Foil	1,139,086	-	1,139,086	1,152,786	-	1,152,786
Rod, wire, and cable	1,140,801	446,287	694,514	1,192,477	456,286	736,191
Rod and bare wire	504,370	446,287	58,083	545,514	456,286	89,228
Cable and insulated wire	636,431	-	636,431	646,963	-	646,963
Rod, bar, pipe, tube and shapes	3,646,886	99,872	3,547,014	3,714,040	76,651	3,637,389
Rod and bar (rolled and extruded)	471,565	99,872	371,693	468,805	76,651	392,154
Pipe and tube (extruded and drawn)	341,442	(D)	341,442	359,250	(D)	359,250
Extruded shapes	2,833,879	-	2,833,879	2,885,985	-	2,885,985
All other	357,928	-	357,928	360,670	-	360,670

- Represents zero. D Withheld to avoid disclosure of individual companies. <sup>1</sup> Net shipments are derived by subtracting domestic receipts from gross shipments.

Source: U.S. Census Bureau, *Manufacturing Profiles*, 1996, Series MP/96; and <<http://www.census.gov/ftp/pub/industry/1/m33d9813.pdf>> (issued 30 June 1999).

## No. 1255. Iron and Steel Industry—Summary: 1990 to 1998

[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	1990	1992	1993	1994	1995	1996	1997	1998
Steel mill products, apparent supply	Mil. tons <sup>1</sup>	97.8	95.0	104.6	121.3	114.8	125.0	131.0	(NA)
Net shipments	Mil. tons	85.0	82.2	89.0	95.1	97.5	100.9	105.9	102.1
Exports	Mil. tons	4.3	4.3	4.0	3.8	7.1	5.0	6.0	5.5
Imports	Mil. tons	17.2	17.1	19.5	30.1	24.4	29.2	31.2	41.5
Scrap consumed	Mil. tons	50.1	51.9	58.5	60.0	62.0	62.0	64.0	(NA)
Scrap inventory	Mil. tons	3.6	3.3	3.6	4.0	4.1	5.3	5.0	(NA)
Iron and steel products: Exports	Mil. tons	5.3	5.3	4.7	4.9	8.2	6.2	7.4	(NA)
Imports	Mil. tons	21.9	21.9	21.8	32.7	27.3	32.1	34.4	(NA)
Capacity by steelmaking process	Mil. net tons	116.7	113.1	109.9	108.2	112.4	116.1	121.4	(NA)
Revenue	Bil. dol.	30.9	26.9	29.5	34.1	35.1	35.0	35.9	(NA)
Net income	Bil. dol.	0.1	-4.1	1.9	1.3	1.5	0.4	1.1	(NA)
Stockholders' equity	Bil. dol.	2.1	2.8	-0.6	3.7	7.4	10.2	10.9	(NA)
Total assets	Bil. dol.	28.3	28.8	30.6	34.3	35.1	35.8	37.0	(NA)
Capital expenditures	Bil. dol.	2.6	1.8	1.5	2.2	2.5	2.3	2.6	(NA)
Working capital ratio <sup>2</sup>	Ratio	1.8	1.4	1.5	1.5	1.6	1.7	1.6	(NA)
Inventories	Bil. dol.	4.7	4.5	4.6	5.0	5.1	5.4	5.6	(NA)
Average employment	1,000	164	140	127	126	123	119	112	(NA)
Hours worked	Million	350	293	274	273	269	259	247	(NA)
Index of output, all employees <sup>3</sup>	1987=100	109.6	117.1	133.5	142.4	142.7	153.6	(NA)	(NA)
Producer price indexes: <sup>4</sup>									
Iron and steel, total	1982=100	117.2	111.5	116.0	122.0	128.8	125.8	126.5	122.6
Steel mill products	1982=100	112.1	106.4	108.2	113.4	120.1	115.6	116.4	113.9
Electrometallurgical products	1982=100	120.1	115.5	115.7	117.0	126.0	157.7	163.0	158.9
Iron ore	1982=100	83.3	83.7	82.7	82.7	91.8	96.7	96.3	95.5
Scrap, iron and steel	1982=100	166.0	139.2	172.5	192.9	202.7	191.1	188.9	164.9
Foundry and forge shop products	1982=100	117.2	120.1	121.3	123.9	129.3	132.6	134.1	135.0

NA Not available. <sup>1</sup> In millions of short tons. <sup>2</sup> Current assets to current liabilities. <sup>3</sup> Output per hour. Source: U.S. Bureau of Labor Statistics, Internet site <<http://stats.bls.gov/iprhome.htm>>. <sup>4</sup> Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly and annual.

Source: American Iron and Steel Institute, Washington, DC, *Annual Statistical Report* (copyright).

## No. 1256. Raw Steel, Pig Iron, and Ferroalloys Production: 1990 to 1998

[In millions (849.4 represents 849,400,000), except percent]

Item	1990	1992	1993	1994	1995	1996	1997	1998, prel.
Raw steel (net tons):								
World production	849.4	797.0	802.0	799.6	829.4	826.9	874.9	(NA)
U.S. production	98.9	92.9	97.9	100.6	104.9	105.3	108.6	107.6
Percent of world	11.6	11.8	12.2	12.6	12.6	12.7	12.4	(NA)
Furnace:								
Basic oxygen process	58.5	57.6	59.3	61.0	62.5	60.4	61.1	59.7
Electric	36.9	35.3	38.5	39.6	42.4	44.9	47.5	48.0
Open hearth	3.5	-	-	-	-	-	-	-
Grade:								
Carbon	86.6	82.5	86.9	89.5	92.7	93.6	95.9	(NA)
Alloy and stainless	12.3	10.4	11.0	11.1	12.3	11.7	12.6	(NA)
Pig iron and ferroalloys production (sh. tons)	54.8	52.2	53.1	54.4	56.1	54.5	54.7	53.2

- Represents or rounds to zero. NA Not available.

Source: American Iron and Steel Institute, Washington, DC, *Annual Statistical Report* (copyright).

## No. 1257. Steel Products—Net Shipments, by Market Classes: 1990 to 1998

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

Market class	1990	1992	1993	1994	1995	1996	1997	1998, prel.
<b>Total<sup>1</sup></b>	<b>84,981</b>	<b>82,241</b>	<b>89,022</b>	<b>95,084</b>	<b>97,494</b>	<b>100,878</b>	<b>105,858</b>	<b>102,143</b>
Automotive	11,100	11,092	12,719	14,753	14,622	14,665	15,251	(NA)
Steel service centers, distributors	21,111	21,328	23,714	24,153	23,751	27,124	27,800	(NA)
Construction, incl. maintenance <sup>2</sup>	9,245	9,536	13,429	10,935	14,892	15,361	15,885	(NA)
Containers, packaging, shipping	4,474	3,974	4,355	4,495	4,139	4,101	4,163	(NA)
Machinery, industrial equipment, tools	2,388	1,951	2,191	2,427	2,310	2,410	2,355	(NA)
Steel for converting and processing	9,441	9,226	9,451	10,502	10,440	10,245	11,260	(NA)
Rail transportation	1,080	1,052	1,223	1,248	1,373	1,400	1,410	(NA)
Contractors' products	2,870	2,694	2,913	3,348	(6)	(6)	(6)	(6)
Oil and gas industries	1,892	1,454	1,526	1,703	2,643	3,254	3,811	(NA)
Electrical equipment	2,453	2,136	2,213	2,299	2,397	2,401	2,434	(NA)
Appliances, utensils, and cutlery	1,540	1,503	1,592	1,736	1,589	1,713	1,635	(NA)

<sup>1</sup> Includes nonclassified shipments and other classes not shown separately. <sup>2</sup> Beginning 1994, contractors' products included with construction.

Source: American Iron and Steel Institute, Washington, DC, *Annual Statistical Report* (copyright).

## No. 1258. U.S. Machine Tool Consumption—Gross New Orders and Exports: 1997 and 1998

[Value in millions of dollars (6,021 represents \$6,021,000,000)]

Item	1997				1998			
	Total	Metal cutting machines	Metal forming machines	Other manufacturing technology	Total	Metal cutting machines	Metal forming machines	Other manufacturing technology
<b>New order units, total . . .</b>	<b>43,358</b>	<b>35,440</b>	<b>3,014</b>	<b>4,904</b>	<b>37,053</b>	<b>30,898</b>	<b>3,745</b>	<b>2,411</b>
Northeast <sup>1</sup>	7,500	6,195	455	850	6,228	5,083	736	408
South <sup>2</sup>	6,145	4,840	508	797	5,520	4,493	639	388
Midwest <sup>3</sup>	15,232	12,262	901	2,069	13,307	11,218	1,267	822
Central <sup>4</sup>	8,536	7,055	737	744	7,636	6,402	723	511
West <sup>5</sup>	5,945	5,088	413	444	4,363	3,702	379	282
<b>New order value, total . . .</b>	<b>6,021</b>	<b>4,944</b>	<b>612</b>	<b>466</b>	<b>5,306</b>	<b>4,374</b>	<b>538</b>	<b>395</b>
Northeast <sup>1</sup>	887	789	61	37	731	622	78	30
South <sup>2</sup>	768	632	78	58	725	592	86	47
Midwest <sup>3</sup>	2,539	1,960	300	279	2,326	1,882	222	222
Central <sup>4</sup>	1,082	908	107	67	937	774	95	68
West <sup>5</sup>	745	655	65	25	587	504	56	27
Export order units <sup>6</sup>	3,177	2,448	182	547	2,414	1,894	265	255
Export order value <sup>6</sup>	644	546	43	55	457	339	77	41

<sup>1</sup> Covers Maine, New Hampshire, Vermont, New York, Massachusetts, Connecticut, Rhode Island, New Jersey, and Pennsylvania. <sup>2</sup> Covers Delaware, Maryland, Virginia, West Virginia, Kentucky, North Carolina, South Carolina, Tennessee, Mississippi, Alabama, Georgia, and Florida. <sup>3</sup> Covers Wisconsin, Michigan, Ohio, Illinois, and Indiana. <sup>4</sup> Covers Minnesota, North Dakota, South Dakota, Montana, Wyoming, Idaho, Iowa, Nebraska, Kansas, Missouri, Oklahoma, Arkansas, Louisiana, Texas, New Mexico, Colorado, and Utah. <sup>5</sup> Covers Washington, Oregon, California, Nevada, and Arizona. <sup>6</sup> Represents orders placed with U.S. builders.

Source: The Association for Manufacturing Technology, Mclean, VA, and American Machine Tool Distributors Association, Rockville, MD, *U.S. Machine Tool Consumption Report*, monthly.

## No. 1259. Metalworking Machinery—Shipments: 1990 to 1997

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

Product	Product code	1990	1992	1993	1994	1995	1996	1997
<b>Metalworking machinery . . . . .</b>	<b>(X)</b>	<b>3,426.1</b>	<b>3,073.9</b>	<b>3,222.5</b>	<b>3,780.1</b>	<b>4,547.1</b>	<b>4,607.8</b>	<b>5,010.3</b>
Metal cutting type <sup>1</sup>	(X)	2,371.3	1,999.7	2,084.9	2,463.0	3,036.6	3,141.1	3,583.3
Boring machines	3541D	(D)	98.0	84.7	129.8	172.4	88.9	80.2
Drilling machines <sup>2</sup>	3541D	184.1	37.5	37.1	52.0	78.9	99.5	89.2
Gear cutting machines	35413	102.7	79.6	87.7	100.6	137.1	164.3	213.5
Grinding and polishing machines	35414	433.6	335.1	360.9	443.3	549.6	541.3	595.0
Lathes <sup>3</sup>	35415	355.6	258.9	305.5	390.8	478.0	451.1	480.7
Milling machines <sup>4</sup>	35416	214.3	210.4	180.2	138.9	194.8	199.7	280.2
Machining centers	3541A	437.0	377.9	485.4	552.4	698.8	779.4	931.6
Station type machines	3541B	502.1	434.7	374.8	455.1	477.0	498.6	551.9
Other metal cutting machine tools <sup>5</sup>	3541C	141.9	166.5	166.2	200.1	246.2	316.0	358.3
Metal forming type . . . . .	(X)	1,080.2	1,074.0	1,139.6	1,317.1	1,510.5	1,466.6	1,427.0
Punching and shearing machines	35421 pt.	200.1	172.9	213.4	294.4	326.3	331.4	319.2
Bending and forming machines	35421 pt.	222.9	270.0	255.3	253.2	256.9	283.0	258.5
Presses, except forging	35422	308.3	288.2	345.7	376.4	379.2	402.0	422.4
Forging machines <sup>7</sup>	35423 pt.	73.9	(D)	(D)	(D)	(D)	(D)	(D)
Other metal forming <sup>7</sup>	35423 pt.	275.0	342.8	325.2	393.0	548.1	450.2	426.9

D Data withheld to avoid disclosure. X Not applicable. <sup>1</sup> Data for "All lathes (turning machines)" and "All milling machines," valued at under \$3,025 each are included in total "Metal cutting type" for 1992. For 1990, data for "Boring machines" were combined with "Drilling machines" to avoid disclosing individual company data. <sup>2</sup> For 1990 through 1997 product code 35415, "Lathes," excludes the value for product code 35415 09. All Lathes valued under \$3,025 each. <sup>3</sup> For 1993 through 1997 product code 35416, "Milling machines," excludes the value for product code 35416 09, "All milling machines valued under \$3,025 each." <sup>4</sup> Multi-function numerically controlled machines. <sup>5</sup> Excludes those designed primarily for home workshops, labs, etc. <sup>6</sup> For 1991 through 1997, and 1998 data for "Forging machines" have been combined with "Other metal forming machines" to avoid disclosing individual company.

Source: U.S. Census Bureau, *Manufacturing Profiles*, Series MP, annual; and release date: July 14, 1998, <<http://www.census.gov/ftp/pub/industry/mq35w97a.txt>>.

## No. 1260. Selected Types of Construction Machinery—Value of Shipments: 1990 to 1997

[In millions of dollars (2,235.9 represents \$2,235,900,000)]

Product description	Product code	1990	1993	1994	1995	1996	1997
		Tractor shovel loaders . . . . .	3531C	2,235.9	2,354.4	2,632.6	3,041.8
Power cranes, draglines, and shovels . . . . .	3531E	1,511.8	1,719.4	2,252.5	2,561.4	2,740.3	2,928.8
Mixers, pavers, and related equipment . . . . .	3531F	609.6	877.1	1,079.8	1,168.8	1,145.8	1,276.3
Off-highway trucks, truck-type tractor, chassis trailers, coal haulers, or wagons . . . . .	3531G pt.	1,453.1	(D)	(D)	1,597.4	1,697.2	1,720.3
Motor graders and light maintainers . . . . .	3531G pt	408.0	(D)	445.2	479.9	588.4	(D)
Rough terrain forklifts . . . . .	3531G pt	209.3	201.9	270.9	355.4	412.3	499.9
Equipment for mounting on tractors . . . . .	3531N	258.6	249.8	286.6	(X)	(X)	(X)
Self-propelled continuous ditchers and trenchers . . . . .	3531J	129.7	143.6	174.0	193.5	209.1	238.7
Construction machinery for mounting on trucks, tractors, and other prime movers . . . . .	3531Q	(NA)	(NA)	(NA)	(NA)	214.5	254.7
Aerial work platforms . . . . .	3531P 90	814.9	637.4	844.9	1,131.1	(D)	(D)

D Data withheld to avoid disclosing figures for individual companies. X Not applicable.

Source: U.S. Census Bureau, through 1992, *Current Industrial Reports*, Series MA35D; thereafter, *Manufacturing Profiles*, Series MP, annual.

## No. 1261. Mining and Mineral Processing Equipment—Shipments: 1996 and 1997

Product	Product code	Number of companies	Quantity (units)		Value (mil. dol.)		
			1997	1996	1997	1996	1997
<b>Mining and mineral processing equipment . . . . .</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>(X)</b>	<b>1,791</b>	<b>2,128</b>
Portable crushing, screening, washing, and combination plants . . . . .	3531K	17	676	976	97	130	
Underground mining machinery <sup>1</sup> . . . . .	35325	28	6,849	16,741	443	671	
Crushing/pulverizing/screening machinery <sup>2</sup> . . . . .	35327	40	4,030	4,153	345	434	
Drills and other mining machinery, n.e.c. <sup>1 3</sup> . . . . .	35328	25	16,739,738	16,453,351	462	459	
Portable drilling rigs and parts . . . . .	3533A	31	2,267,781	3,416,465	444	434	

X Not applicable. <sup>1</sup> Excludes parts. <sup>2</sup> Excludes portables and parts. <sup>3</sup> n.e.c. = Not elsewhere classified.

Source: U.S. Census Bureau, *Manufacturing Profiles*, Series MP, annual; and <<http://www.census.gov/ftp/pub/industry/1/ma35f97.pdf>> (issued 21 July 1998).

## No. 1262. Engines, Refrigeration and Heating Equipment, and Pumps and Compressors—Shipments: 1994 to 1997

[(24,178 represents 24,178,000)]

Product	Product code	Unit	1994	1995	1996	1997
			<b>Internal combustion engines produced . . . . .</b>	<b>(X)</b>	<b>1,000</b>	<b>24,178</b>
Gasoline (except outboard, aircraft, and auto) . . . . .	35191	1,000	23,287	22,287	22,659	22,788
Nonautomotive diesel (except aircraft) . . . . .	35193	1,000	220	246	270	314
Automotive diesel . . . . .	35194	1,000	661	732	685	763
Natural gas and LPG . . . . .	35196	1,000	9	9	9	9
<b>Air-conditioning, heating equipment shipments:</b>						
<b>Heat transfer equipment . . . . .</b>	<b>35851</b>	<b>Mil. dol . . . . .</b>	<b>(NA)</b>	<b>(NA)</b>	<b>4,280</b>	<b>4,267</b>
Room air-conditioners and dehumidifiers . . . . .	35856	Mil. dol . . . . .	(NA)	(NA)	1,020	1,496
Motor vehicle mechanical air-conditioning systems . . . . .	35857	Mil. dol . . . . .	(NA)	(NA)	2,208	1,819
Compressors and compressor units . . . . .	3585A	Mil. dol . . . . .	(NA)	(NA)	3,092	3,585
Automotive air-conditioning compressors . . . . .	3585B	Mil. dol . . . . .	(NA)	(NA)	1,652	1,492
Nonelectric warm air furnaces and dehumidifiers . . . . .	3585C	Mil. dol . . . . .	(NA)	(NA)	1,562	1,679
Unitary air conditioners . . . . .	3585E	Mil. dol . . . . .	(NA)	(NA)	4,625	4,671
Air source heat pumps . . . . .	3585F	Mil. dol . . . . .	(NA)	(NA)	1,046	1,114
<b>Pumps and compressors <sup>1</sup> . . . . .</b>	<b>(X)</b>	<b>Mil. dol . . . . .</b>	<b>7,291</b>	<b>7,373</b>	<b>8,327</b>	<b>8,665</b>
Industrial pumps . . . . .	35612	Mil. dol . . . . .	2,638	2,700	3,093	3,072
Domestic water systems . . . . .	35613	Mil. dol . . . . .	325	329	361	357
Air and gas compressors . . . . .	35633	Mil. dol . . . . .	(NA)	2,466	2,665	2,831

NA Not available. X Not applicable. <sup>1</sup> Includes products not shown separately.

Source: U.S. Census Bureau, *Manufacturing Profiles*, Series MP, annual.

## No. 1263. Computers and Office and Accounting Machines—Value of Shipments: 1990 to 1997

[In millions of dollars (25,630.1 represents 25,630,100,000)]

Selected products	Product class	1990	1992	1993	1994	1995	1996	1997
		1990	1992	1993	1994	1995	1996	1997
Electronic computers . . . . .	3571	25,630.1	28,571.2	29,659.1	38,260.7	49,038.1	50,681.5	49,605.5
Host computers (multi-users) . . . . .	35711 00	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	15,328.2
Single user computers . . . . .	35712 00	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	33,307.9
Other computers . . . . .	35719 00	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	969.5
Large-scale processing equipment . . . . .	35713	(NA)	5,267.1	4,104.4	4,458.5	5,288.8	5,962.3	(NA)
Medium-scale & small-scale processing equipment . . . . .	35714	(NA)	3,347.3	2,442.3	2,815.5	2,278.6	2,401.6	(NA)
Portable computers and workstations . . . . .	35715	(NA)	17,059.6	18,888.8	24,298.0	34,349.3	35,767.9	(NA)
Laptop computers . . . . .	35716	(NA)	1,644.2	2,575.6	5,028.3	5,774.3	5,290.8	(NA)
Loaded computer processor boards and board subassemblies . . . . .	36798	2,247.2	13,745.8	15,087.1	17,514.8	24,447.7	24,937.3	25,283.4
Computer storage devices & equipment . . . . .	35721	7,488.2	6,282.4	5,730.7	5,555.6	7,903.0	8,909.2	8,617.2
Parts for computer storage devices & subassemblies . . . . .	35722	955.2	1,357.1	1,496.4	1,951.9	2,235.6	1,719.9	2,142.5
Computer terminals . . . . .	35751	2,066.7	1,707.9	1,531.3	1,243.5	1,086.0	1,103.9	791.7
Computer peripheral equipment, n.e.c. . . . .	35771	7,696.6	8,505.6	9,810.2	11,943.6	12,331.0	12,462.8	13,686.2
Parts for input/output equipment . . . . .	35772	3,705.5	3,053.2	2,554.3	2,498.7	2,391.0	5,504.8	2,487.5
Calculating and accounting machines . . . . .	35784	(D)	967.5	1,454.2	1,261.5	1,278.9	1,485.0	1,621.4
Magnetic and optical recording media . . . . .	36950	3,695.4	4,336.8	4,483.3	4,777.1	5,106.2	5,739.1	5,242.8

D Withheld to avoid disclosing data for individual companies. NA Not available. <sup>1</sup> Prior to 1992, product class separation for computers is not available. <sup>2</sup> 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. <sup>3</sup> Product classes 35781 and 35782 were combined to product class 35784 beginning 1991.  
Source: U.S. Census Bureau, *Manufacturing Profiles*, Series MP, annual.

## No. 1264. Computers and Office and Accounting Machines—Shipments: 1996 and 1997

[Quantity (19,939 represents 19,939,000, value (50,682 represents \$50,682,000,000)]

Product	Product code	Number of companies, 1997	Quantity (1,000)		Value (mil. dol.)	
			1996	1997	1996	1997
Electronic computers (automatic data processors) . . . . .	3571	172	19,939	20,124	50,682	49,606
Host computers (multi-users):						
Large scale systems and unix servers . . . . .	35711 10	16	(NA)	377	(NA)	6,065
Medium-scale systems and unix servers . . . . .	35711 20	29	(NA)	2,414	(NA)	8,328
PC servers . . . . .	35711 30	16	(NA)	161	(NA)	644
Other host computers . . . . .	35711 90	6	(NA)	33	(NA)	291
Single user computers:						
Personal computers . . . . .	35712 10	44	(NA)	13,473	(NA)	21,931
Workstations . . . . .	35712 20	23	(NA)	476	(NA)	5,137
Laptops (AC/DC) . . . . .	35712 30	10	(NA)	503	(NA)	1,257
Notebooks, subnotebooks (battery operated) . . . . .	35712 40	12	(NA)	1,899	(NA)	4,755
Personal digital assistants . . . . .	35712 50	1	(NA)	(D)	(D)	(D)
Other portable computers . . . . .	35712 60	4	(NA)	128	(NA)	123
Other single user computers . . . . .	35712 90	4	(NA)	175	(NA)	105
Other computers . . . . .	35719	45	(NA)	485	(NA)	969
Computer storage devices and equipment . . . . .	35721	86	(X)	(X)	8,909	8,617
Parts for computer storage devices and subassemblies . . . . .	35722	16	(X)	(X)	1,720	2,143
Computer terminals . . . . .	35751	51	(X)	(X)	1,104	792
Parts for computer terminals . . . . .	35752	9	(X)	(X)	199	(D)
Computer peripheral equipment, n.e.c. . . . .	35771	253	(X)	(X)	11,463	13,686
Calculating and accounting machines . . . . .	35784	41	(X)	(X)	1,485	1,621
Automatic typing and word processing machines . . . . .	35792	3	(D)	(D)	(D)	(D)
Mailing, letter handling, addressing machines . . . . .	35795	31	(X)	(X)	1,231	1,398
Other office machines, n.e.c. . . . .	35799	44	(X)	(X)	580	603
Printed circuit assemblies . . . . .	36798	694	(X)	(X)	24,937	25,283
Magnetic and optical recording media . . . . .	36950	57	(X)	(X)	5,739	5,243

D Withheld to avoid disclosure of individual companies. NA Not applicable. X Not available. <sup>1</sup> N.e.c. = Not elsewhere classified.  
Source: U.S. Census Bureau, *Manufacturing Profiles*, Series MP, annual.

## No. 1265. Computers and Industrial Electronics—Factory Shipments: 1990 to 1996

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

Item	1990	1991	1992	1993	1994	1995	1996
<b>Computer and peripheral equipment, total . . . . .</b>	<b>50,793</b>	<b>50,121</b>	<b>51,932</b>	<b>54,821</b>	<b>59,254</b>	<b>73,555</b>	<b>78,673</b>
Computers . . . . .	25,973	26,691	29,036	30,002	38,261	49,038	50,682
Peripheral equipment . . . . .	24,820	23,430	22,896	24,819	20,993	24,517	27,992
<b>Industrial electronics, total . . . . .</b>	<b>26,183</b>	<b>26,126</b>	<b>26,778</b>	<b>27,250</b>	<b>29,927</b>	<b>33,732</b>	<b>35,300</b>
Controlling, processing equipment . . . . .	12,728	12,633	12,881	13,961	15,014	16,450	16,986
Testing, measuring equipment . . . . .	6,859	7,492	7,484	7,332	8,416	10,109	10,874
Nuclear electronic equipment . . . . .	567	571	533	519	477	501	503
Robots, accessories, and components . . . . .	275	294	(NA)	(NA)	(NA)	(NA)	(NA)
Other electronic equipment . . . . .	5,754	5,137	5,880	5,438	6,020	6,672	6,937

NA Not available.  
Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual (copyright).



## No. 1266. Consumer Electronics and Electronic Components— Factory Sales, by Product Category: 1990 to 1998

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

Product category	1990	1993	1994	1995	1996	1997	1998, prel.
<b>Total</b>	<b>43,033</b>	<b>52,469</b>	<b>58,230</b>	<b>62,541</b>	<b>68,264</b>	<b>72,365</b>	<b>76,028</b>
<b>Video products:</b>							
Direct-view color TV	6,197	7,316	7,225	6,798	6,492	6,026	6,298
LCD color TV	50	45	42	44	39	38	37
Projection TV	626	841	1,117	1,417	1,426	1,361	1,629
TV/VCR combinations	178	599	710	723	697	684	782
Monochrome TV	99	40	38	34	29	27	22
LCD Monochrome TV	33	33	32	31	32	30	25
<b>Other video:</b>							
VCR decks	2,439	2,851	2,869	2,767	2,815	2,618	2,273
Camcorders	2,260	1,958	1,985	2,135	2,084	1,894	1,919
Laser disc players	72	123	122	108	66	25	11
Home satellite earth stations	421	408	900	1,265	1,493	1,254	1,084
Videocassette players	65	61	64	59	43	39	20
<b>Home and portable products:</b>							
Compact audio systems	1,270	1,464	1,703	1,677	1,157	1,419	1,606
Separate audio components	1,935	1,635	1,686	1,911	1,808	1,609	1,555
Home radios	360	307	306	284	291	300	330
Portable audio equipment	1,645	2,187	2,495	2,506	2,149	2,033	2,259
<b>Mobile electronics:</b>							
After market auto sound equipment	1,192	1,604	1,898	1,931	1,814	1,811	1,815
Factory installed auto sound	3,100	3,199	3,225	3,100	2,512	2,710	2,540
Cellular telephones	1,133	1,257	1,275	1,431	1,656	(NA)	(NA)
Pagers	118	198	230	300	370	460	550
Vehicle security	190	294	401	464	255	325	330
<b>Home office products:</b>							
Cordless telephones	842	1,046	1,106	1,141	1,176	1,679	1,756
Corded telephones	638	617	610	557	553	528	473
Telephone answering devices	827	1,026	1,153	1,077	1,004	1,020	1,095
Home computers	4,187	8,190	10,088	12,600	15,040	15,950	16,640
Computer peripherals	1,980	2,450	3,100	3,850	975	1,212	1,440
Computer software (incl. CD-ROM)	971	1,600	2,050	2,500	3,000	3,450	3,930
Personal Wordprocessors	656	558	504	451	404	347	312
Home fax machines	920	888	964	919	839	1,139	626
Home security systems	1,440	940	1,110	1,130	1,350	1,400	1,520
<b>Electronic gaming:</b>							
Electronic gaming hardware	975	1,650	1,575	1,500	1,600	1,650	1,980
Electronic gaming software	2,400	2,625	2,925	3,000	3,500	3,900	4,480
<b>Blank media:</b>							
Blank audio cassettes	376	362	353	334	314	281	249
Blank videocassettes	948	779	730	708	725	695	674
Blank floppy diskettes	314	345	353	373	300	250	232
<b>Accessories and batteries:</b>							
Electronic accessories	793	759	874	816	982	982	1,115
Total primary batteries	1,383	2,215	2,412	2,600	2,676	2,869	3,140

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

## No. 1267. Communication Equipment—Value of Shipments: 1990 to 1997

[In millions of dollars (36,990.3 represents \$36,990,300,000)]

Product description	Product class	1990	1991	1992	1993	1994	1995	1996	1997
<b>Communication equipment</b>		<b>36,990.3</b>	<b>37,821.0</b>	<b>39,501.9</b>	<b>42,113.8</b>	<b>49,598.1</b>	<b>56,362.0</b>	<b>65,608.6</b>	<b>74,482.8</b>
Telephone switching and switch-board equipment	36611	7,537.1	6,956.6	7,291.3	7,240.9	8,067.6	8,178.4	9,617.7	10,618.1
Carrier line equipment and modems	36613	5,013.8	4,298.4	4,810.6	4,993.3	5,114.0	5,868.6	7,544.6	7,686.8
Other telephone and telegraph equipment and components	36614	3,180.5	4,909.5	5,507.3	7,026.4	8,479.5	10,510.0	14,030.9	17,846.9
Communication systems and equipment (except broadcast)	36631	14,768.0	14,987.9	15,162.8	16,196.7	19,977.5	23,031.9	25,332.5	28,550.9
Broadcast, studio, and related electronic equipment	36632	1,856.4	1,836.3	1,948.2	2,077.5	2,469.5	2,844.7	3,000.2	3,350.5
Intercommunications systems, including inductive paging systems (selective calling)	36693	346.1	303.8	288.5	241.7	283.7	296.0	277.8	252.7
Alarm systems	36691	1,027.2	1,145.0	1,370.4	1,532.4	1,550.5	1,662.1	1,802.8	1,921.1
Vehicular and pedestrian traffic control equipment and electrical railway signals and attachments	36692	470.6	491.1	597.3	573.4	669.9	710.7	762.0	805.5
Electronic teaching machines, teaching aids, trainers and simulators	36991	1,208.8	1,411.0	1,310.8	847.7	838.5	913.3	865.7	809.9
Laser sources <sup>1</sup>	36992	(NA)	(NA)	(NA)	(NA)	726.4	787.5	843.8	1,020.9
Ultrasonic equipment	36995	108.8	113.7	119.2	127.3	137.5	172.3	184.3	187.8
Other electronic systems and equipment, n.e.c. <sup>2</sup>	36999	1,473.0	720.8	1,095.5	1,256.5	1,283.5	1,386.5	1,346.3	1,431.8

NA Not available. <sup>1</sup> Beginning in 1994, data for laser equipment, instrumentation, and components have been eliminated from this survey. Only laser sources are being collected. <sup>2</sup> Product class 36997 changed to product class 36999 for 1992. Product classes 36998, 39992, and 39447 are no longer collected on this survey.

Source: U.S. Census Bureau, *Manufacturing Profiles*, Series MP, annual; and <<http://www.census.gov/ftp/pub/industry/1/ma36p97.pdf>> (released 06 October 1998).

## No. 1268. Semiconductors, Printed Circuit Boards, and Other Electronic Components—Value of Shipments, by Class of Product: 1990 to 1997

[In millions of dollars (1,096.5 represents \$1,096,500,000). N.e.c. = Not elsewhere classified]

Class of product	Product code	1990	1993	1994	1995	1996	1997
		Transmittal, industrial, and special-purpose electron tubes (except x-ray)	36713	1,096.5	677.6	1,120.5	854.9
Electron tubes, receiving type	36714	24.2	27.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Cathode ray picture tubes, including rebuilt	36714	1,344.1	2,231.5	1,2627.1	12,907.0	13,272.0	13,433.6
Electron tube parts	36715	142.6	160.1	114.9	120.2	153.1	161.0
Printed circuit boards	36720	7,174.5	6,273.0	6,812.3	8,367.3	8,216.8	8,784.6
Integrated microcircuits (semiconductor networks)	36741	16,623.3	23,636.1	36,020.4	48,437.9	52,639.3	56,866.1
Transistors	36742	682.3	704.5	834.6	942.3	945.9	801.2
Diodes and rectifiers	36743	668.2	640.7	829.5	1,066.7	861.4	786.5
Other semiconductor devices	36749	5,741.0	6,908.2	9,915.4	12,639.4	10,976.1	10,271.5
Capacitors for electronic applications	36750	1,391.5	1,294.3	1,512.3	1,785.3	1,653.4	2,006.6
Resistors	36760	799.8	716.5	869.5	953.2	911.9	992.8
Coils, transformers, reactors, and chokes for electronic applications	36770	975.6	1,121.4	1,250.7	1,411.8	1,435.6	1,450.8
Coaxial connectors	36781	420.0	419.0	642.4	731.6	656.9	624.5
Cylindrical connectors	36782	513.6	482.8	511.3	552.9	642.5	586.2
Rack and panel connectors	36783	500.0	427.6	545.6	540.5	530.7	673.3
Printed circuit connectors	36784	804.9	859.4	923.4	1,026.4	1,095.3	1,276.2
Other connectors including parts	36785	1,085.0	1,152.8	1,377.2	1,401.9	1,617.1	1,795.5
Filters (except microwave) and piezoelectric devices	36791	457.4	534.3	674.1	729.2	719.3	692.6
Microwave components and devices	36793	1,368.7	1,136.3	1,227.2	1,233.4	1,251.4	1,238.5
Transducers, electrical/electronic input or output	36795	741.1	832.5	970.5	1,111.3	1,104.8	1,209.2
Switches, mechanical types for electronic circuitry	36796	579.4	572.6	621.5	666.3	738.0	828.3
Printed circuit assemblies	36798	8,269.3	15,087.1	17,514.8	24,447.7	24,937.3	25,283.4
All other electronic components n.e.c.	36799	4,898.3	5,257.6	6,149.7	6,978.1	7,199.1	7,637.6

<sup>1</sup> Product codes combined to avoid disclosing figures for individual companies.

Source: U.S. Census Bureau, *Manufacturing Profiles*, Series MP, annual; and <<http://www.census.gov/industry/ma36q97.txt>> (Released August 1998).

## No. 1269. Selected Instruments and Related Products—Shipments: 1990 to 1997

[In millions of dollars (1,418 represents 1,418,000,000)]

Product	Product code	1990	1993	1994	1995	1996	1997
		Automatic regulating and control valves	34918	1,418	1,648	1,807	1,860
Solenoid-operated valves (except nuclear and fluid power transfer)	34919	346	406	452	464	522	536
Aeronautical, nautical, and navigational instruments	38121	2,518	2,121	1,859	2,125	2,274	2,536
Search & detection, navigation & guidance systems and equipment	38122	32,420	28,604	25,567	24,697	26,094	26,644
Laboratory apparatus and laboratory furniture <sup>1</sup>	38210	1,675	1,598	1,811	1,837	1,799	1,881
Controls for monitoring residential and commercial environments and appliance	38220	1,982	2,310	2,521	2,533	2,648	2,679
Process control instruments	38230	5,224	5,935	6,240	6,439	6,745	6,788
Integrating and totalizing meters for gas and liquids	38242	725	777	859	915	963	1,079
Counting devices	38243	210	285	354	364	367	428
Motor vehicle instruments <sup>2</sup>	38244	1,457	1,768	2,092	2,193	2,219	2,245
Integrating instruments, electrical	38251	396	461	440	445	458	457
Test equipment for testing electrical, radio and communication circuits, and motors	38252	6,156	6,572	7,582	9,255	10,390	10,979
Instruments to measure electricity	38253	586	526	554	555	500	504
Analytical, scientific instruments (except optical)	38260	4,412	4,766	5,534	5,737	5,478	5,902
Sighting, tracking, and fire-control equipment, optical type	38271	581	769	652	655	613	575
Optical instruments and lenses <sup>3</sup>	38274	1,252	1,456	1,597	1,579	1,749	1,999
Aircraft engine instruments (except flight)	38291	579	552	430	430	530	554
Physical properties and kinematic testing equip.	38292	1,012	1,175	1,199	1,374	1,369	1,490
Nuclear radiation detection and monitoring instruments	38294	567	519	489	501	497	478
Commercial, geophysical, meteorological, and general purpose instruments	38295	1,140	1,271	1,344	1,373	1,452	1,614
Surveying and drafting instruments	38296	274	301	324	356	365	366

<sup>1</sup> Includes laboratory furniture. Prior to 1990, laboratory furniture was included in product class 38296. <sup>2</sup> Includes some data previously classified in product class 37149, "Other motor vehicle parts and accessories, new, n.e.c." <sup>3</sup> Beginning 1992, product classes 38272, "Binoculars and astronomical instruments," and 38273, "Other optical instruments and lenses" were combined into product class 38274; prior years have been restated to reflect revision.

Source: U.S. Census Bureau, 1990, *Current Industrial Reports*, MA38B; thereafter *Manufacturing Profiles*, Series MP, annual.

## No. 1270. Switchgear, Switchboard Apparatus, Relays, and Industrial Controls—Shipments: 1990 to 1997

[In millions of dollars (388 represents 388,000,000), except as indicated]

Product	Product code	Com-panies, 1997 (number)	1990	1993	1994	1995	1996	1997
			Power circuit breakers. . . . .	36132	33	388	521	551
Low volt panelboards & dist. boards . . . . .	36133	125	1,722	1,687	1,751	2,025	2,093	2,187
Fuses and fuse equipment. . . . .	36134	24	419	320	382	500	522	557
Molded case circuit breakers, 1,000 volts and under . . . . .	36135	33	959	1,010	1,133	1,173	1,218	1,284
Duct, 1,000 volts and under . . . . .	36136	22	194	200	228	239	255	278
Switchgear, except ducts . . . . .	36139	129	1,324	1,581	1,664	1,758	1,868	1,912
General purpose and other relays . . . . .	36251	116	805	751	804	808	787	851
Specific purpose industrial controls . . . . .	36252	250	2,020	2,322	2,748	3,312	3,455	3,523
General purpose industrial controls . . . . .	36253	262	2,912	3,326	3,840	4,189	4,324	4,354
Motor controller accessories & parts for industrial controls . . . . .	36254	132	452	476	512	503	516	554

Source: U.S. Census Bureau, 1990, *Current Industrial Reports*, MA36A, annual; thereafter, *Manufacturing Profiles*, Series MP, annual.

## No. 1271. Selected Industrial Air Pollution Control Equipment—Shipments: 1997

[Quantity in number of units, value in millions of dollars (651,953 represents \$651,953,000,000)]

Product	Product code	Number of com-panies	New orders		Shipments		Backlog (Dec. 31)	
			Quantity	Value	Quantity	Value	Quantity	Value
<b>Selected industrial air pollution control equipment . . . . .</b>	<b>35646</b>	<b>108</b>	<b>91,460</b>	<b>651,953</b>	<b>88,677</b>	<b>722,485</b>	<b>12,583</b>	<b>342,075</b>
Particulate emissions collectors. . . . .	(X)	88	79,000	498,953	76,199	497,447	11,982	181,807
Electrostatic precipitators . . . . .	35646 51	16	(D)	91,295	(D)	110,978	(D)	58,784
Fabric filters. . . . .	35646 54	52	60,704	282,797	57,662	266,870	10,333	70,145
Mechanical collectors. . . . .	35646 55	36	(D)	77,127	(D)	62,014	(D)	35,378
Wet scrubbers . . . . .	35646 58	27	1,244	47,734	1,249	57,585	221	17,500
Gaseous emissions control devices. . . . .	(X)	41	993	121,947	978	194,020	297	152,347
Catalytic oxidation systems. . . . .	35646 70	12	(D)	(D)	185	34,373	(D)	(D)
Thermal and direct oxidation systems. . . . .	35646 72	17	250	47,968	235	40,890	63	18,894
Scrubbers (gas absorber) . . . . .	35646 73	14	503	26,082	470	23,140	139	9,269
Gas absorbers . . . . .	35646 76	7	20	5,167	35	9,900	(D)	(D)
Other . . . . .	35646 79	15	11,467	31,053	11,500	31,018	304	7,921

D Data withheld to avoid disclosure of company data. X Not applicable.

Source: U.S. Census Bureau, *Manufacturing Profiles*, Series MP, annual.

## No. 1272. Toy Industry—Shipments and Quantity, by Type of Product: 1996 to 1998

[17,078 represents \$17,078,000,000]

Products	Shipments (mil. dol.)			Quantity (mil.)		
	1996	1997	1998	1996	1997	1998
<b>Total . . . . .</b>	<b>17,078</b>	<b>19,508</b>	<b>20,321</b>	<b>3,068</b>	<b>3,433</b>	<b>3,533</b>
Video games. . . . .	2,940	4,253	5,106	69	112	159
Other industry . . . . .	14,138	15,255	15,215	2,999	3,321	3,374
Infant/preschool . . . . .	1,384	1,403	1,379	211	218	214
Dolls. . . . .	2,089	2,154	2,085	258	252	252
Plush . . . . .	984	1,353	1,614	147	259	303
Action figure toys . . . . .	832	1,046	907	158	186	154
Vehicles . . . . .	1,386	1,544	1,633	280	349	411
Ride-ons . . . . .	770	743	728	35	34	33
Games/puzzles. . . . .	1,428	1,479	1,506	254	248	245
Activity toys . . . . .	2,077	2,087	2,097	608	680	682
All other toys . . . . .	3,188	3,446	3,266	1,048	1,095	1,080

Source: Toy Manufacturers of America, Inc., New York, NY, *Toy Industry Fact Book*, annual (copyright).