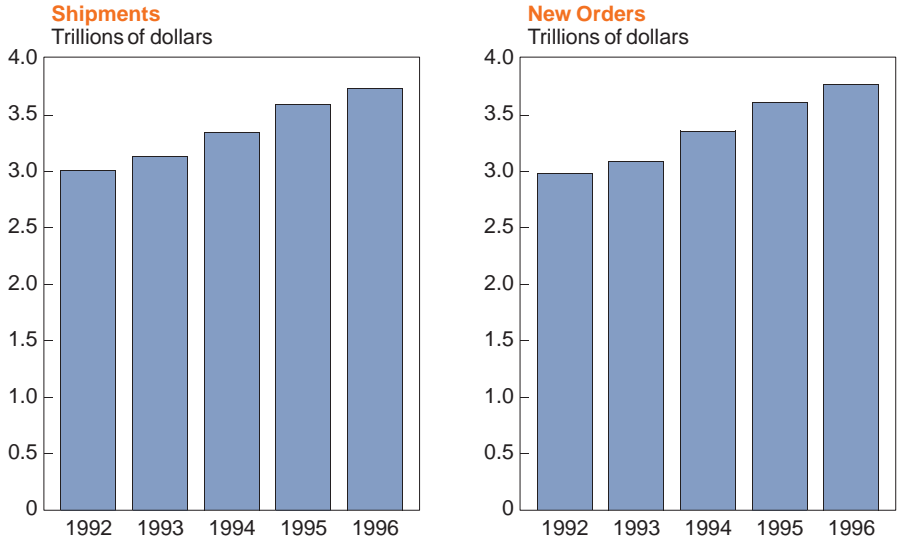
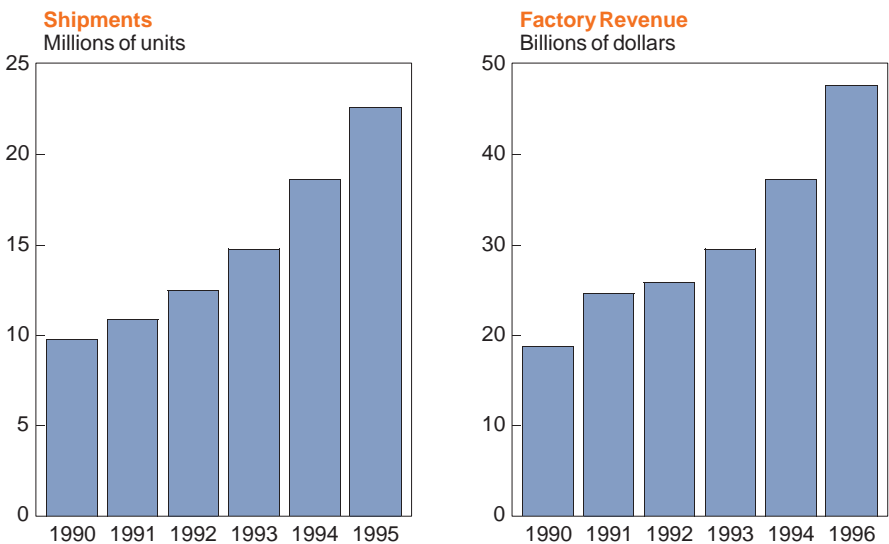


Figure 26.1
**Value of Manufacturers' Shipments and
 New Orders: 1992 to 1996**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1225.

Figure 26.2
Personal Computer Shipments and Revenue: 1992 to 1995



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1251.

Manufactures

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

The principal sources of these data are Bureau of the Census 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 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 Dataquest, Inc.

Data on financial aspects of manufacturing industries are collected by the Bureau of Economic Analysis (BEA) and the Bureau of the Census. 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 inter-

In Brief

The Gross Domestic Product for this sector was almost \$7 trillion in 1994.

The manufacturing sector employed almost 19 million workers in 1995. The leading states were California, Ohio, Texas, Illinois, and Michigan.

Manufacturing shipments reached a new high in 1996 at \$3.7 trillion. Information technology industry and health care equipment sectors also reached new record levels in shipments with \$241 and \$125 billion, respectively.

vals. Since 1967 it has been taken every 5 years (for years ending in "2" and "7"). 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 measures of manufacturing activity covered in detail by the censuses. The annual survey data are estimates derived from a scientifically selected sample of establishments. The 1995 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. The 1994 through 1998 ASM sample is similar to the previous sample. For the current panel, 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. For the censuses from 1947 to 1963, reports were required from all establishments employing one or more persons at any time during the census year. Beginning with the 1967 census, an effort was made to relieve the very small establishments from the necessity of filing a census report. Approximately 150,000 small single-unit manufacturing firms identified as having less than 20 employees (cutoff varied by industry) benefited from this procedure. Data for these single-unit companies were estimated on the basis of government administrative records and industry averages. Each of the establishments tabulated was classified in 1 of the approximately 459 manufacturing industries as defined by the *SIC Manual* in 1987. The *Manual* defines an industry as a number of establishments producing a single product or a closely re-

lated 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.

The censuses for 1947 through 1992 were conducted on an establishment basis. The term "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. 1217. Gross Domestic Product in Manufacturing in Current and Real (1992) Dollars, by Industry: 1987 to 1994

[In millions of dollars. 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	1987	1988	1989	1990	1991	1992	1993	1994
CURRENT DOLLARS								
Gross domestic product, total ¹	4,692,340	5,049,586	5,438,676	5,743,837	5,916,668	6,244,445	6,550,241	6,931,357
Manufacturing	889,047	971,297	1,013,422	1,031,359	1,028,065	1,063,575	1,116,536	1,197,093
Percent of all industries	18.9	19.2	18.6	18.0	17.4	17.0	17.0	17.3
Durable goods	513,310	556,617	574,877	572,838	558,312	573,373	612,284	673,139
Lumber and wood products	31,884	32,665	33,579	31,799	29,972	32,016	35,283	40,952
Furniture and fixtures	14,602	15,019	15,710	15,404	15,056	16,208	17,644	18,952
Stone, clay, and glass products	23,687	23,961	24,891	24,836	22,932	25,076	25,660	27,925
Primary metal industries	35,214	43,504	45,056	42,638	39,571	38,999	40,783	44,166
Fabricated metal products	61,577	66,193	68,264	69,383	67,590	70,055	74,474	82,465
Industrial machinery	94,595	106,379	113,826	114,831	105,739	108,640	111,871	119,341
Electronic & other electric equipment	83,281	88,412	96,707	94,926	98,191	98,601	111,774	129,990
Motor vehicles and equipment	57,920	59,634	53,003	46,102	42,328	52,848	66,160	84,064
Other transportation equipment	55,649	55,644	57,715	60,470	62,029	56,535	53,235	47,630
Instruments and related products	39,061	47,096	46,632	52,212	54,625	54,246	53,638	54,507
Misc. manufacturing industries	15,840	18,110	19,494	20,237	20,279	20,149	21,762	23,147
Nondurable goods	375,737	414,680	438,545	458,521	469,753	490,202	504,252	523,959
Food and kindred products	78,020	81,726	87,662	94,160	99,148	102,094	103,673	108,076
Tobacco manufactures	13,129	14,279	14,894	16,380	17,790	18,365	16,517	16,550
Textile mill products	20,127	20,487	20,916	21,742	22,279	25,434	25,519	25,585
Apparel and other textile products	22,844	23,939	25,221	25,151	25,890	27,190	27,268	27,823
Paper and allied products	38,073	44,036	45,818	45,323	44,849	45,828	47,610	49,048
Printing and publishing	62,438	66,822	72,243	73,875	75,870	79,743	81,684	85,711
Chemicals and allied products	85,112	96,982	104,922	110,348	114,148	120,457	126,492	132,375
Petroleum and coal products	22,719	31,940	28,826	32,985	29,702	28,225	29,771	29,708
Rubber and misc. plastic products	29,369	30,192	33,498	33,963	35,650	38,095	41,076	44,952
Leather and leather products	3,906	4,277	4,545	4,594	4,427	4,771	4,642	4,131
CHAINED (1992) DOLLARS								
Gross domestic product, total ¹	5,648,410	5,862,907	6,060,356	6,138,661	6,078,964	6,244,445	6,383,756	6,604,247
Manufacturing	1,041,619	1,110,891	1,106,018	1,090,112	1,050,388	1,063,575	1,095,312	1,168,029
Percent of all industries	18.4	18.9	18.3	17.8	17.3	17.0	17.2	17.7
Durable goods	565,131	616,085	613,119	600,678	568,132	573,373	601,179	657,864
Lumber and wood products	40,047	39,928	38,736	36,972	34,127	32,016	28,729	31,546
Furniture and fixtures	16,912	16,858	16,900	15,842	14,947	16,208	17,845	18,448
Stone, clay, and glass products	23,504	24,556	25,643	25,513	22,916	25,076	24,992	26,213
Primary metal industries	38,572	41,105	39,397	38,983	38,638	38,999	41,908	42,853
Fabricated metal products	72,262	77,134	75,211	72,567	68,210	70,055	74,231	82,911
Industrial machinery	91,340	106,174	112,367	113,363	103,653	108,640	115,781	127,573
Electronic & other electric equipment	78,115	85,331	92,821	92,559	95,983	98,601	113,638	138,430
Motor vehicles and equipment	69,940	74,239	64,220	56,840	46,784	52,848	60,573	72,763
Other transportation equipment	74,398	76,601	72,465	69,059	63,957	56,535	51,649	45,148
Instruments and related products	48,804	59,551	56,239	58,622	58,065	54,246	51,346	50,887
Misc. manufacturing industries	18,737	21,367	22,178	22,154	21,068	20,149	21,123	22,372
Nondurable goods	477,759	494,520	492,626	489,287	482,249	490,202	494,123	510,171
Food and kindred products	95,884	104,566	102,534	103,082	102,264	102,094	102,204	104,849
Tobacco manufactures	31,806	30,730	27,176	24,851	21,527	18,365	17,452	22,005
Textile mill products	21,795	21,466	21,875	22,573	23,068	25,434	25,858	27,251
Apparel and other textile products	25,320	26,567	27,194	26,487	26,378	27,190	26,940	27,787
Paper and allied products	42,998	45,066	43,763	44,146	44,622	45,828	49,914	49,658
Printing and publishing	84,136	86,846	87,893	84,498	80,822	79,743	77,329	78,183
Chemicals and allied products	110,397	110,440	111,401	117,260	115,814	120,457	122,100	125,128
Petroleum and coal products	36,260	37,128	33,397	28,434	28,281	28,225	27,081	26,782
Rubber and misc. plastic products	29,280	30,944	34,523	34,436	35,337	38,095	40,872	45,746
Leather and leather products	4,675	4,708	4,896	4,767	4,527	4,771	4,567	3,899

¹ For additional industry detail, see table 693.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1996.

No. 1218. Manufactures—Summary: 1982 to 1995

[For establishment coverage, see text, section 26. For composition of regions, see table 26]

ITEM	Unit	1982	1987	1992	1993 ¹	1994 ¹	1995 ¹
ALL ESTABLISHMENTS							
Number of establishments ²	1,000	358	369	382	(NA)	(NA)	(NA)
With 20 or more employees	1,000	123	126	125	(NA)	(NA)	(NA)
Employee size-class: ³							
Establishments	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)
Form of organization:							
Corporate	1,000	283.2	287.4	304.0	(NA)	(NA)	(NA)
Noncorporate	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)
All employees: ⁵							
Annual average ⁶	Million	19.1	18.9	18.2	18.2	18.3	18.7
Payroll	Bil. dol.	380	476	559	573	594	624
Payroll per employee	\$1,000	19.9	25.2	30.7	31.5	32.4	33.3
Production workers:							
Annual average	Million	12.4	12.2	11.6	11.7	11.9	12.3
Percent of all employees	Percent	64.9	64.6	63.8	64.3	65.1	65.4
Hours	Billion	23.5	24.3	23.6	23.8	24.5	25.1
Hours per worker	1,000	1.9	2.0	2.0	2.0	2.1	2.0
Wages	Bil. dol.	205	251	282	290	304	317
Percent of payroll for all employees	Percent	53.9	52.8	50.4	50.6	51.2	50.9
Wages per worker	\$1,000	16.5	20.6	24.2	24.8	25.5	25.9
Wages per worker hour	Dollar	8.72	10.35	11.95	12.17	12.40	12.65
Value added by manufacture ⁷	Bil. dol.	824	1,166	1,425	1,483	1,598	1,709
Per production worker	\$1,000	66.5	95.5	122.6	126.5	133.9	139.5
Per production worker hour	Dollar	35.06	47.97	60.56	62.20	65.14	68.19
Per dollar of workers' wages	Dollar	4.02	4.64	5.07	5.11	5.25	5.39
Value added, percent distribution:							
Northeast	Percent	23.7	23.7	19.9	(NA)	(NA)	(NA)
Midwest	Percent	29.8	29.8	30.2	(NA)	(NA)	(NA)
South	Percent	29.5	29.5	32.1	(NA)	(NA)	(NA)
West	Percent	17.0	17.0	17.8	(NA)	(NA)	(NA)
Cost of materials	Bil. dol.	1,130	1,320	1,571	1,647	1,752	1,893
Value of shipments ⁸	Bil. dol.	1,960	2,476	3,006	3,128	3,340	3,589
Per production worker	\$1,000	158.1	203.0	258.0	266.7	279.7	292.9
End-of-year inventories	Bil. dol.	307	333	374	383	397	419
New capital expenditures ⁹	Bil. dol.	75.0	78.6	104.0	103.0	112.0	128.2
Gross book value of depreciable assets							
Machinery and equipment	Bil. dol.	527	671	896	(NA)	(NA)	(NA)
Assets per employee	\$1,000	36.2	48.6	66.6	(NA)	(NA)	(NA)
Operation ratios:							
Value added to shipments	Ratio	42.0	47.1	47.9	47.4	47.9	47.6
Inventories to shipments	Ratio	15.7	13.4	12.5	12.2	11.9	11.7
Payroll to value added	Ratio	46.1	40.8	34.7	38.7	37.2	36.5
MULTIUNIT COMPANIES							
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)
SINGLE UNIT COMPANIES							
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. ¹ Estimated data based on *Annual Survey of Manufactures*; see text, section 26. ² Includes administrative and auxiliary units. ³ Excludes administrative offices and auxiliary units. ⁴ Includes forms of organization not shown separately. ⁵ Includes data for employees of manufacturing establishments engaged in distribution and construction work. ⁶ Data are based on pay periods ending nearest 15th of March, May, August, and November. ⁷ 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. ⁸ Includes extensive and unmeasurable duplication from shipments between establishments in the same industry classification. ⁹ Includes plants under construction and not yet in operation.

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

No. 1219. Manufactures—Summary, by Industry: 1992 and 1995

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

INDUSTRY	SIC code	1992					1995						
		All employees		Production workers (1,000)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)	All employees			Production workers (1,000)	Value added by manufacture		Value of shipments (mil. dol.)
		Number ¹ (1,000)	Payroll (mil. dol.)				Number ¹ (1,000)	Payroll			Total (mil. dol.)	Per production worker (dol.)	
								Total (mil. dol.)	Per employee (dol.)				
All manufacturing establishments	(X)	16,949	494,109	11,641	1,424,700	3,004,723	18,740.6	623,418	33,266	12,253.8	1,709,180	139,482	3,589,157
Food and kindred products	20	1,503	36,772	1,100	157,260	406,963	1,525.9	39,715	26,027	1,123.6	180,975	161,067	448,405
Meat products	201	400	7,564	343	19,141	94,072	428.8	8,750	20,405	369.9	24,698	66,770	100,260
Dairy products	202	135	3,720	85	15,258	52,720	133.7	3,954	29,572	83.6	15,698	187,772	55,466
Preserved fruits and vegetables	203	216	4,825	179	23,644	47,806	211.2	5,047	23,895	175.5	24,977	142,321	51,349
Grain mill products	204	107	3,375	74	21,000	49,957	106.0	3,485	32,878	74.1	26,980	364,107	58,555
Bakery products	205	215	5,599	133	17,905	28,494	219.3	6,047	27,574	137.9	20,313	147,305	32,585
Sugar and confectionery products	206	91	2,402	71	10,950	22,710	91.9	2,621	28,524	70.8	11,935	168,566	24,990
Fats and oils	207	28	778	19	3,770	18,724	25.9	799	30,865	17.9	4,417	246,749	21,538
Beverages	208	144	4,786	74	29,260	57,957	140.8	4,983	35,387	71.8	32,488	452,479	64,415
Miscellaneous foods and kindred products	209	166	3,723	121	16,333	34,523	168.2	4,029	23,955	122.1	19,468	159,445	39,248
Tobacco products	21	38	1,524	27	27,207	35,198	31.3	1,484	47,409	22.2	24,715	1,113,306	32,984
Cigarettes	211	25	1,205	19	24,802	29,746	20.1	1,182	58,791	14.4	22,264	1,546,118	27,609
Cigars	212	3	53	2	190	287	2.6	59	22,500	2.0	250	124,950	391
Chewing and smoking tobacco	213	3	92	2	1,213	1,608	2.9	100	34,379	1.8	1,600	888,889	1,975
Tobacco stemming and redrying	214	7	174	5	1,002	3,557	5.7	144	25,246	4.0	601	150,350	3,010
Textile mill products	22	616	12,398	529	30,060	70,753	606.8	13,454	22,172	518.1	32,705	63,124	79,742
Broadwoven fabric mills, cotton	221	56	1,147	50	2,504	5,811	55.5	1,264	22,766	50.1	2,508	50,054	6,675
Broadwoven fabric mills, manmade	222	87	1,850	77	4,008	8,767	80.3	1,907	23,753	69.7	4,333	62,159	9,838
Broadwoven fabric mills, wool	223	14	279	12	691	1,612	14.0	311	22,207	12.2	724	59,328	1,836
Narrow fabric mills	224	17	323	14	706	1,274	17.3	376	21,728	13.8	851	61,638	1,543
Knitting mills	225	195	3,400	170	8,052	16,985	179.9	3,474	19,309	156.9	8,921	56,860	19,216
Textile finishing, except wool	226	51	1,143	41	2,786	7,089	51.8	1,276	24,631	42.5	3,215	75,642	7,452
Carpets and rugs	227	49	1,088	39	3,480	9,828	55.6	1,336	24,023	43.6	4,016	92,115	10,732
Yarn and thread mills	228	92	1,744	84	4,059	11,274	88.6	1,840	20,770	80.5	4,068	50,538	12,776
Miscellaneous textile goods	229	55	1,423	42	3,775	8,113	63.9	1,671	26,142	48.8	4,069	83,387	9,675
Apparel and other textile products	23	985	15,325	824	36,423	71,658	950.1	15,753	16,580	793.8	39,519	49,784	78,097
Men's and boys' suits and coats	231	44	723	37	1,375	2,430	31.1	550	17,672	26.3	1,274	48,445	2,078
Men's and boys' furnishings	232	261	3,649	228	9,864	17,867	234.5	3,508	14,959	206.7	10,199	49,340	18,698
Women's and misses' outerwear	233	306	4,597	256	10,836	21,631	315.0	4,910	15,587	264.9	11,345	42,829	22,868
Women's and children's undergarments	234	54	798	46	2,193	3,943	45.9	771	16,793	38.0	2,218	58,363	4,577

See footnotes at end of table.

No. 1219. Manufactures—Summary, by Industry: 1992 and 1995—Continued

[See headnote, page 739]

INDUSTRY	SIC code	1992					1995						
		All employees		Production workers (1,000)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)	All employees			Production workers (1,000)	Value added by manufacture		Value of shipments (mil. dol.)
		Number ¹ (1,000)	Payroll (mil. dol.)				Number ¹ (1,000)	Payroll			Total (mil. dol.)	Per production worker (1,000)	
		Total (mil. dol.)	Per employee (dol.)			Total (mil. dol.)	Per employee (dol.)			Total (mil. dol.)	Per production worker (1,000)		
Apparel, other textile products—Con.													
Hats, caps, and millinery	235	19	280	16	572	976	18	316	17,448	15	675	45,615	1,043
Girls' and children's outerwear	236	53	775	44	1,667	3,145	43	627	14,640	34	2,064	60,345	3,679
Fur goods	237	1	21	1	68	172	1	12	19,833	-	30	101,333	101
Miscellaneous apparel and accessories	238	37	566	30	1,260	2,378	33	553	16,616	27	1,427	53,427	2,687
Miscellaneous fabricated textile products	239	211	3,918	169	8,586	19,118	229	4,507	19,698	182	10,287	56,553	22,365
Lumber and wood products	24	656	13,882	540	33,154	81,565	741	16,622	22,429	614	40,937	66,684	104,923
Logging	241	83	1,689	69	5,017	13,592	87	1,891	21,783	71	6,133	86,383	16,776
Sawmills and planing mills	242	168	3,585	144	8,848	23,294	180	4,117	22,897	154	10,109	65,514	28,870
Millwork, plywood, and structural members	243	224	5,005	181	10,844	24,744	256	5,957	23,316	208	13,206	63,399	31,330
Wood containers	244	40	645	33	1,321	2,942	50	846	17,046	41	1,820	44,056	3,957
Wood buildings and mobile homes	245	56	1,234	44	2,531	6,645	75	1,799	23,924	61	4,054	66,235	10,689
Miscellaneous Wood Products	249	84	1,725	69	4,593	10,348	94	2,013	21,346	78	5,616	72,188	13,302
Furniture and fixtures ²	25	471	10,227	372	22,840	43,826	514	11,907	23,157	415	26,238	63,195	53,571
Household furniture	251	253	4,804	213	10,492	20,508	272	5,535	20,343	232	12,011	51,816	24,613
Office Furniture	252	68	1,868	51	4,626	7,979	70	2,063	29,678	54	5,201	96,857	8,943
Public building and related furniture	253	30	732	23	1,736	4,483	37	930	25,073	29	2,006	70,372	6,608
Partitions and fixtures	254	75	1,818	55	3,633	6,580	81	2,164	26,686	61	4,293	70,039	8,084
Miscellaneous furniture and fixtures	259	45	1,005	31	2,353	4,276	54	1,215	22,333	40	2,727	68,351	5,323
Paper and allied products	26	626	20,492	479	60,174	133,201	630	22,237	35,325	486	79,836	164,306	172,638
Pulp mills	261	16	689	12	2,554	5,466	13	631	47,075	10	3,917	376,606	6,924
Paper mills	262	131	5,421	100	14,848	32,786	119	5,548	46,741	92	22,468	244,746	45,121
Paperboard mills	263	52	2,136	39	8,195	16,140	57	2,563	45,046	43	12,655	292,947	24,528
Paperboard containers and boxes	265	199	5,722	151	12,406	32,655	209	6,437	30,873	160	15,144	94,825	41,669
Miscellaneous converted paper products	267	229	6,524	176	22,171	46,154	232	7,058	30,424	181	25,653	141,886	54,395
Printing and publishing	27	1,492	41,136	785	112,446	166,153	1,534	44,747	29,174	809	125,936	155,726	188,439
Newspapers	271	414	10,437	134	26,920	33,782	415	11,095	26,748	135	29,254	217,175	37,732
Periodicals	272	115	4,077	20	15,880	22,104	123	4,572	37,137	18	17,365	964,700	23,905
Books	273	130	4,037	57	14,325	21,378	133	4,485	33,848	57	17,657	312,510	26,029
Miscellaneous publishing	274	65	1,720	24	8,473	10,908	67	1,910	28,343	26	9,349	366,616	11,992
Commercial printing	275	567	15,337	408	31,898	56,229	604	17,150	28,375	440	86,492	82,954	65,093
Manifold business forms	276	48	1,341	34	3,922	7,429	44	1,234	28,307	29	4,024	139,708	7,911
Greeting cards	277	23	584	12	3,389	4,190	23	642	27,922	13	3,707	296,576	4,726
Blank books and bookbinding	278	66	1,461	51	3,640	5,049	67	1,608	23,862	51	4,148	81,182	6,051
Printing trade services	279	65	2,142	46	3,999	5,086	58	2,051	35,476	42	3,941	94,513	5,000

See footnotes at end of table.

No. 1219. Manufactures—Summary, by Industry: 1992 and 1995—Continued

[See headnote, page 739]

INDUSTRY	SIC code	1992					1995						
		All employees		Production workers (1,000)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)	All employees			Production workers (1,000)	Value added by manufacture		Value of shipments (mil. dol.)
		Number ¹ (1,000)	Payroll (mil. dol.)				Number ¹ (1,000)	Payroll			Total (mil. dol.)	Per production worker (dol.)	
				Total (mil. dol.)	Per employee (dol.)								
Chemicals and allied products	28	849	32,502	479	164,346	305,420	839	35,424	42,207	487	196,906	404,324	362,126
Industrial inorganic chemicals	281	103	4,214	55	16,724	27,331	82	3,576	43,774	46	16,305	354,450	26,722
Plastics materials and synthetics	282	129	5,137	86	20,979	48,698	127	5,516	43,607	85	27,689	327,676	63,506
Drugs	283	194	7,840	93	48,602	67,792	218	9,720	44,628	113	56,718	503,262	80,884
Soap, cleaners, and toilet goods	284	123	3,927	75	26,182	42,875	123	4,149	33,813	74	30,701	416,563	50,158
Paints and allied products	285	51	1,710	26	7,154	14,973	52	1,981	37,807	28	8,411	303,657	17,943
Industrial organic chemicals	286	125	5,495	72	26,132	64,397	118	5,914	50,245	69	34,168	492,330	76,539
Agricultural chemicals	287	40	1,451	25	8,659	18,841	39	1,596	40,816	25	11,566	455,362	22,525
Miscellaneous chemical products	289	84	2,727	48	9,915	20,512	81	2,972	36,509	48	11,349	237,925	23,850
Petroleum and coal products	29	114	4,967	74	23,408	150,227	110	5,260	47,644	72	31,580	439,838	151,261
Petroleum refining	291	75	3,640	48	18,607	136,551	70	3,796	53,920	46	26,248	570,615	136,023
Asphalt paving and roofing materials	295	26	846	18	3,006	7,749	26	969	37,265	18	3,358	183,514	8,992
Miscellaneous petroleum and coal products	299	14	481	7	1,796	5,927	14	495	35,357	8	1,974	263,173	6,246
Rubber and misc. plastics products	30	907	23,156	698	58,652	113,593	1,018	27,301	26,810	801	73,023	91,210	145,426
Tires and inner tubes	301	65	2,499	53	6,504	11,814	66	2,717	41,361	54	7,397	136,472	14,074
Rubber and plastics footwear	302	14	216	11	464	868	10	179	18,604	8	435	54,388	910
Hose and belting and plastics and packing	305	52	1,411	38	3,290	3,290	61	1,779	29,397	45	4,320	95,564	7,814
Fabricated rubber products, n.e.c	306	105	2,617	79	6,024	11,474	119	2,949	24,757	94	7,557	80,566	14,074
Miscellaneous plastics products, n.e.c.	308	671	16,413	516	42,370	83,487	763	19,678	25,777	599	53,314	88,946	108,555
Leather and leather products	31	101	1,806	83	4,527	9,694	86	1,632	18,927	72	4,126	57,143	9,064
Leather tanning and finishing	311	17	420	13	891	2,905	15	393	25,673	13	1,015	81,208	3,119
Footwear cut stock	313	4	63	3	149	317	3	56	18,161	3	134	51,385	282
Footwear, except rubber	314	49	762	41	2,060	3,898	45	741	16,652	38	1,845	48,817	3,698
Leather gloves and mittens	315	3	35	2	69	140	3	41	15,577	2	61	26,391	114
Luggage	316	10	191	8	509	968	6	156	27,421	4	465	108,209	835
Handbags and personal leather goods	317	11	202	9	470	861	8	138	16,578	7	358	54,167	626
Leather goods, n.e.c	319	8	133	6	304	575	7	107	15,985	6	248	40,016	391

See footnotes at end of table.

No. 1219. Manufactures—Summary, by Industry: 1992 and 1995—Continued

[See headnote, page 739]

INDUSTRY	SIC code	1992					1995						
		All employees		Production workers (1,000)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)	All employees			Production workers (1,000)	Value added by manufacture		Value of shipments (mil. dol.)
		Number ¹ (1,000)	Payroll (mil. dol.)				Number ¹ (1,000)	Payroll			Total (mil. dol.)	Per production worker (dol.)	
Total (mil. dol.)	Per employee (dol.)	Total (mil. dol.)	Per employee (dol.)	Total (mil. dol.)	Per employee (dol.)	Total (mil. dol.)	Per employee (dol.)	Total (mil. dol.)	Per employee (dol.)				
Stone, clay, and glass products	32	469	13,113	357	34,641	62,521	503	14,912	29,675	388	42,424	109,228	75,990
Flat glass	321	12	451	10	1,311	2,073	11	505	45,045	9	1,802	198,000	2,595
Glass and glassware, pressed or blown	322	66	2,075	56	5,900	9,033	61	2,040	33,498	52	6,289	121,880	9,817
Products of purchased glass	323	55	1,369	42	3,757	6,904	60	1,635	27,121	47	4,309	91,685	8,096
Cement, hydraulic	324	17	595	13	2,149	4,051	17	659	39,196	13	3,205	254,381	5,342
Structural clay products	325	31	734	24	1,695	2,857	32	817	25,686	25	2,064	82,227	3,330
Pottery and related products	326	37	863	29	1,995	2,817	44	1,076	24,517	36	2,518	70,716	3,532
Concrete, gypsum, and plaster products	327	174	4,741	126	11,008	23,024	195	5,567	28,507	146	14,028	96,277	29,590
Cut stone and stone products	328	12	282	9	604	1,007	13	319	24,729	10	661	64,765	1,096
Miscellaneous nonmetallic mineral products	329	66	2,004	49	6,222	10,756	70	2,294	33,004	52	7,549	146,586	12,592
Primary metal industries ²	33	662	22,202	508	52,027	138,287	688	25,075	36,457	541	69,594	128,591	180,303
Blast furnace and basic steel products	331	239	9,179	182	22,173	58,449	224	9,924	44,246	175	29,142	166,147	74,547
Iron and steel foundries	332	122	3,739	99	6,873	11,860	130	4,304	33,028	107	8,881	82,771	15,237
Primary nonferrous metals	333	35	1,334	27	3,391	13,905	34	1,323	38,921	26	5,710	219,600	18,421
Secondary nonferrous metals	334	13	407	9	1,233	6,131	15	494	33,571	11	1,393	126,636	7,629
Nonferrous rolling and drawing	335	147	4,635	109	12,335	37,101	158	5,311	33,529	120	15,538	129,269	48,317
Nonferrous foundries (castings)	336	75	1,942	59	3,927	7,002	91	2,516	27,683	76	5,405	70,742	9,831
Fabricated metal products	34	1,362	38,962	994	83,761	166,532	1,465	44,577	30,428	1,100	102,672	93,372	204,819
Metal cans and shipping containers	341	40	1,465	33	3,736	13,263	36	1,386	30,069	30	3,887	128,277	13,634
Cutlery, handtools, and hardware	342	134	3,648	99	9,044	15,448	142	4,140	29,176	107	10,923	101,992	19,009
Plumbing and heating, except electric	343	42	1,152	29	3,105	5,825	44	1,303	29,340	31	3,938	128,686	7,025
Fabricated structural metal products	344	389	10,362	275	21,256	44,896	416	11,766	28,290	302	26,516	87,947	56,077
Screw machine products, bolts, etc.	345	91	2,624	68	5,269	9,026	101	3,105	30,800	79	6,772	86,154	11,524
Metal forgings and stampings	346	234	7,749	185	14,913	30,621	259	9,517	36,744	210	18,650	88,810	39,417
Metal services, n.e.c.	347	108	2,652	83	5,679	9,953	126	3,283	25,972	98	7,392	75,580	13,277
Ordnance and accessories, n.e.c.	348	62	2,124	35	4,536	6,855	43	1,532	35,706	26	3,835	146,366	5,574
Miscellaneous fabricated metal products	349	263	7,185	186	16,224	30,667	297	8,547	28,747	217	20,760	95,490	39,284
Industrial machinery and equipment	35	1,739	57,231	1,086	132,923	258,661	1,926	67,478	35,031	1,259	172,945	137,323	351,114
Engines and turbines	351	83	3,135	52	7,738	17,549	82	3,297	40,209	57	9,463	165,439	22,815
Farm and garden machinery	352	86	2,354	63	7,318	14,784	94	2,827	30,203	71	9,336	131,864	20,716
Construction and related machinery	353	176	5,664	108	12,489	27,193	200	6,666	33,348	130	16,897	130,279	38,457
Metalworking machinery	354	255	8,571	178	16,542	26,474	284	10,335	33,338	204	21,932	107,722	35,057
Special industry machinery	355	162	5,515	91	11,667	21,522	184	7,135	38,838	105	17,550	167,301	32,046
General industrial machinery	356	244	7,742	154	17,817	31,443	260	8,833	34,011	169	22,017	130,048	39,222
Computer and office equipment	357	251	10,143	89	29,229	66,709	250	10,495	41,963	92	35,968	389,259	90,249
Refrigeration and service machinery	358	179	5,264	125	13,597	27,544	198	6,232	31,552	144	16,469	114,052	36,574
Industrial machinery, n.e.c.	359	304	8,843	227	16,527	25,443	375	11,659	31,058	287	23,312	81,199	35,977

See footnotes at end of table.

No. 1219. Manufactures—Summary, by Industry: 1992 and 1995—Continued

[See headnote, page 739]

INDUSTRY	SIC code	1992					1995						
		All employees		Production workers (1,000)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)	All employees		Production workers (1,000)	Value added by manufacture		Value of shipments (mil. dol.)	
		Number ¹ (1,000)	Payroll (mil. dol.)				Number ¹ (1,000)	Payroll		Total (mil. dol.)	Per production worker (dol.)		
Electronics; other electric equipment	36	1,439	44,197	911	121,158	216,764	1,534	51,121	33,332	995	173,920	174,741	299,837
Electric distribution equipment	361	68	1,946	48	5,437	9,797	74	2,281	31,037	52	6,726	129,098	12,141
Electrical industrial apparatus	362	157	4,387	106	10,850	19,266	168	5,068	30,111	119	13,368	112,623	24,991
Household appliances	363	103	2,571	83	7,964	18,633	111	3,064	27,656	89	9,437	106,150	22,391
Electric lighting and wiring equipment	364	148	3,974	107	11,307	19,844	159	4,516	28,454	118	12,969	110,281	23,238
Household audio and video equipment	365	47	1,123	35	3,486	10,614	48	1,324	27,420	37	3,924	107,210	13,712
Communications equipment	366	239	9,111	114	26,522	42,955	240	9,864	41,081	112	36,990	329,682	58,815
Electronic components and accessories	367	530	16,752	317	44,305	73,642	587	20,297	34,559	366	77,561	211,857	119,288
Misc. electrical equipment and supplies	369	147	4,332	100	11,287	22,013	147	4,708	32,092	103	12,945	125,431	25,262
Transportation equipment	37	1,647	62,735	1,080	158,326	399,269	1,523	64,153	42,134	1,059	172,926	163,338	462,616
Motor vehicles and equipment	371	703	26,213	565	80,935	238,384	802	33,602	41,897	657	105,461	160,641	326,181
Aircraft and parts	372	548	22,647	281	47,661	104,858	394	18,661	47,364	192	41,869	217,729	83,865
Ship and boat building and repairing	373	163	4,634	122	8,560	15,249	143	4,320	30,232	109	8,175	74,930	15,226
Railroad equipment	374	28	900	21	2,015	4,714	32	1,085	34,339	23	2,305	98,491	7,317
Motorcycles, bicycles, and parts	375	13	343	10	891	2,134	16	503	31,217	12	1,311	109,233	2,833
Guided missiles, space vehicles, parts	376	146	6,780	50	15,246	26,508	89	4,792	53,725	31	10,566	338,641	18,667
Miscellaneous transportation equipment	379	46	1,218	33	3,018	7,423	47	1,190	25,486	34	3,241	94,751	8,528
Instruments and related products	38	907	33,067	460	89,394	134,940	809	31,865	39,408	418	92,534	221,373	140,910
Search and navigation equipment	381	253	10,962	103	24,299	35,039	185	9,070	48,971	69	20,369	296,926	29,435
Measuring and controlling devices	382	276	9,632	138	21,775	34,730	267	10,062	37,684	140	26,460	189,404	42,678
Medical instruments and supplies	384	264	8,522	154	26,082	39,535	261	9,124	34,959	152	28,350	186,143	43,220
Ophthalmic goods	385	29	714	20	1,938	2,675	27	716	26,212	17	2,254	130,312	3,213
Photographic equipment and supplies	386	77	3,061	39	14,862	22,119	61	2,720	44,522	35	14,707	416,640	21,584
Watches, clocks, watchcases and parts	387	8	177	6	438	843	7	174	25,203	5	394	82,021	781
Misc. manufacturing industries	39	366	8,417	255	21,975	39,498	397	9,685	24,425	280	25,672	91,586	46,891
Jewelry, silverware, and plated ware	391	46	1,068	32	2,501	5,731	43	1,053	24,767	29	2,660	92,997	6,222
Musical instruments	393	12	273	9	589	982	13	313	24,240	10	690	66,337	1,144
Toys and sporting goods	394	98	2,133	71	6,816	12,123	107	2,521	23,650	79	7,826	98,941	14,625
Pens, pencils, office, and art supplies	395	30	684	21	2,030	3,515	34	786	22,977	20	2,414	98,134	3,954
Costume jewelry and notions	396	27	557	19	1,366	2,316	27	578	21,502	20	1,465	75,118	2,523
Miscellaneous manufactures	399	153	3,702	103	8,674	14,832	174	4,434	25,542	118	10,617	89,898	18,423

- Represents zero. X Not applicable. ¹ Represents the average of production workers plus all other employees for the payroll period ended nearest the 15th of March. ² Includes other industries not shown separately.

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

No. 1220. Manufactures—Summary, by Selected Industry Based on Value Added: 1992 and 1995

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

INDUSTRY	SIC code	1992					1995						
		All employees		Production workers (1,000)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)	All employees			Production workers (1,000)	Value added by manufacture		Value of shipments (mil. dol.)
		Number ¹ (1,000)	Payroll (mil. dol.)				Number ¹ (1,000)	Payroll			Total (mil. dol.)	Per employee (dol.)	
								Total (mil. dol.)	Per employee (dol.)				
Meat packing plants	2011	121.2	2,441	105.0	6,958	50,167	125.7	2,898	23,055	108.1	8,282	76,614	50,688
Sausages and other prepared meats	2013	85.4	2,023	65.6	5,480	19,940	88.6	2,197	24,797	70.2	6,201	88,333	20,685
Poultry slaughtering and processing	2015	193.8	3,100	172.8	6,703	23,965	214.5	3,654	17,035	191.6	10,215	53,314	28,887
Fluid milk	2026	63.4	1,840	32.5	5,965	21,926	62.1	1,912	30,789	31.0	6,345	204,677	22,865
Canned fruits and vegetables	2033	63.6	1,465	53.2	6,976	15,071	60.0	1,461	24,350	50.3	6,435	127,932	14,712
Frozen specialties, n.e.c.	2038	46.7	972	38.3	4,076	7,886	43.9	976	22,232	36.4	4,982	136,868	9,263
Cereal breakfast foods	2043	16.1	745	13.1	7,259	9,737	16.7	762	45,629	13.8	10,038	727,391	12,606
Bread, cake, and related products	2051	154.9	4,059	88.1	11,453	18,130	155.2	4,277	27,558	87.0	12,381	142,310	19,640
Cookies and crackers	2052	47.0	1,247	35.0	5,513	8,668	49.2	1,372	27,886	38.7	6,610	170,801	10,500
Candy and other confectionery products	2064	51.5	1,261	41.0	6,347	10,202	53.8	1,425	26,487	41.7	6,894	165,324	11,341
Malt beverages	2082	34.5	1,567	25.1	10,189	17,340	32.6	1,535	47,086	23.6	10,307	436,737	17,151
Bottled and canned soft drinks	2086	77.1	2,163	30.5	9,592	25,423	73.8	2,247	30,447	28.5	11,853	415,895	30,203
Flavoring extracts and syrups, n.e.c.	2087	10.3	342	5.8	5,275	6,923	11.1	407	36,667	6.4	5,778	902,813	7,815
Food preparations, n.e.c.	2099	61.4	1,413	43.7	5,881	12,165	67.7	1,598	23,604	47.9	6,906	144,175	14,025
Cigarettes	2111	25.4	1,205	18.1	24,802	29,746	20.1	1,812	90,149	14.4	22,264	1,546,111	27,609
Logging	2411	83.2	1,689	69.2	5,017	13,592	86.8	1,891	21,786	71.0	6,133	86,380	16,776
Sawmills and planing mills, general	2421	137.6	3,040	117.7	7,755	21,061	142.7	3,432	24,050	121.5	8,649	71,185	25,796
Wood household furniture	2511	121.1	2,174	105.2	4,726	8,730	125.5	2,399	19,116	109.6	5,295	48,312	10,236
Paper mills	2621	130.6	5,421	100.4	14,848	32,786	118.7	5,548	46,740	91.8	22,468	244,749	45,121
Paperboard mills	2631	63.1	2,136	39.4	8,195	16,140	56.9	2,563	45,044	43.2	12,655	292,940	24,528
Corrugated and solid fiber boxes	2653	112.3	3,276	81.4	6,760	19,834	124.2	3,863	31,103	92.8	9,052	97,543	27,521
Sanitary paper products	2676	40.6	1,454	32.8	8,226	15,647	37.8	1,435	37,963	31.1	9,410	302,572	17,831
Newspapers	2711	413.9	10,437	133.8	26,920	33,782	414.8	11,095	26,748	134.7	29,254	217,179	37,732
Periodicals	2721	115.1	4,077	20.2	15,880	22,104	123.1	4,572	37,141	18.0	17,365	964,722	23,905
Book publishing	2731	79.0	2,676	18.2	11,494	16,698	83.6	3,022	36,148	18.5	14,557	786,865	20,604
Miscellaneous publishing	2741	65.1	1,720	23.5	8,473	10,908	67.4	1,910	28,338	25.5	9,349	366,627	11,992
Commercial printing, lithographic	2752	438.2	12,016	316.2	24,704	43,352	451.5	13,004	28,802	331.3	27,465	82,901	48,774
Commercial printing, n.e.c.	2759	107.4	2,588	74.2	5,484	9,265	130.0	3,395	26,115	89.1	7,132	80,045	12,329
Manifold business forms	2761	47.9	1,341	33.7	3,922	7,429	43.6	1,234	28,303	28.8	4,024	139,722	7,911
Industrial inorganic chemicals, n.e.c.	2819	78.9	3,266	39.7	11,212	18,129	58.9	2,624	44,550	31.9	10,415	326,489	17,174
Plastics materials and resins	2821	61.2	2,698	36.5	12,599	31,601	69.7	3,309	47,475	41.5	17,711	426,771	43,529
Organic fibers, noncellulosic	2824	44.4	1,545	33.9	5,661	11,113	38.6	1,438	37,254	30.1	6,533	217,043	12,813
Pharmaceutical preparations	2834	122.9	4,958	62.4	37,224	50,415	142.4	6,257	43,940	78.3	41,186	526,003	57,943
Soap and other detergents	2841	32.8	1,171	19.9	7,709	14,729	32.1	1,232	38,380	18.3	9,288	507,541	16,132
Polishes and sanitation goods	2842	22.0	662	13.4	4,219	6,659	23.0	702	30,522	14.0	5,482	391,571	8,700
Toilet preparations	2844	59.8	1,774	37.0	13,084	18,629	59.5	1,872	31,462	37.4	13,449	359,599	20,439
Paints and allied products	2851	51.1	1,710	25.7	7,154	14,973	52.4	1,981	37,805	27.7	8,411	303,646	17,943
Industrial organic chemicals, n.e.c.	2869	99.8	4,494	57.2	22,423	54,103	92.1	4,801	52,128	53.9	28,306	525,158	63,303
Agricultural chemicals, n.e.c.	2879	16.8	669	9.6	5,514	9,142	14.8	672	45,405	8.7	6,161	708,161	10,079
Chemical preparations, n.e.c.	2899	37.1	1,233	21.4	5,048	9,927	38.0	1,445	38,026	20.8	6,169	296,587	12,199

See footnotes at end of table.

INDUSTRY	SIC code	1992					1995						
		All employees		Production workers (1,000)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)	All employees			Production workers (1,000)	Value added by manufacture		Value of shipments (mil. dol.)
		Number ¹ (1,000)	Payroll (mil. dol.)				Number ¹ (1,000)	Payroll			Total (mil. dol.)	Per production worker (dol.)	
Total (mil. dol.)	Per employee (dol.)	Total (mil. dol.)	Per employee (dol.)	Total (mil. dol.)	Per employee (dol.)	Total (mil. dol.)	Per production worker (dol.)						
Petroleum refining	2911	74.9	3,640	47.9	18,607	136,551	70	3,796	53,920	46	26,248	570,615	136,023
Tires and inner tubes	3011	64.6	2,499	52.8	6,504	11,814	66	2,717	41,361	54	7,397	136,472	14,074
Unsupported plastics film and sheet	3081	54.7	1,680	39.0	5,268	10,619	60	1,909	31,920	44	6,511	146,646	13,912
Plastics products, n.e.c.	3089	427.8	9,998	33.2	24,398	45,376	502	12,268	24,434	398	30,673	77,069	58,542
Ready-mixed concrete	3273	82.4	2,293	61.0	5,346	12,015	92	2,715	29,443	73	6,733	92,736	15,081
Blast furnaces and steel mills.	3312	170.1	7,022	131.0	16,541	42,154	153	7,483	48,907	120	22,003	182,897	54,113
Nonferrous wiredrawing and insulating.	3357	60.6	1,724	44.8	4,841	13,044	67	2,041	30,502	50	5,969	119,625	16,277
Hardware, n.e.c.	3429	75.4	2,063	56.3	4,824	8,806	78	2,284	29,360	60	5,576	93,402	10,622
Fabricated structural metal	3441	72.0	1,964	50.8	3,947	8,919	74	2,156	29,254	54	4,772	88,704	10,822
Fabricated plate work (boiler shops)	3443	78.4	2,312	55.4	4,789	8,975	84	2,561	30,564	61	5,826	95,046	10,912
Sheet metal work.	3444	103.9	2,834	75.3	5,715	11,299	115	3,324	28,903	84	7,358	87,181	14,394
Automotive stampings	3465	105.1	4,094	87.0	7,231	15,803	119	5,140	43,046	100	9,091	90,914	20,639
Metal stampings, n.e.c.	3469	91.8	2,470	70.0	5,100	9,559	102	3,028	29,772	80	6,623	82,377	12,545
Internal combustion engines, n.e.c.	3519	55.5	2,029	37.0	4,786	11,707	58	2,246	38,863	42	6,762	159,491	16,671
Farm machinery and equipment	3523	61.5	1,786	42.6	5,167	9,620	66	2,142	32,559	48	6,831	141,140	13,745
Construction machinery.	3531	74.6	2,458	47.8	5,683	13,139	86	2,866	33,446	59	8,376	142,688	19,979
Special dies, tools, jigs, and fixtures	3544	110.8	3,883	84.9	6,617	9,265	129	4,845	37,474	101	8,911	88,574	12,476
Special industry machinery, n.e.c.	3559	83.3	2,947	44.7	6,331	11,479	96	3,998	41,597	53	10,501	198,125	18,826
Electronic computers	3571	110.6	4,849	31.1	16,129	38,202	109	4,846	44,585	35	22,174	631,726	57,054
Refrigeration and heating equipment	3585	120.7	3,594	89.0	9,450	19,739	135	4,301	31,909	103	11,384	110,306	26,227
Industrial machinery, n.e.c.	3599	248.9	7,040	189.1	12,882	19,117	319	9,662	30,288	247	18,795	76,187	28,400
Motors and generators	3621	67.9	1,762	51.9	4,328	8,168	77	2,052	26,550	62	5,341	86,416	10,757
Relays and industrial controls.	3625	62.5	1,864	36.0	4,686	7,741	63	2,173	34,270	37	5,617	150,992	9,841
Telephone and telegraph apparatus	3661	91.1	3,739	44.8	12,475	20,510	88	3,896	43,539	60	14,925	373,130	25,859
Radio and TV communications equip.	3663	124.9	4,721	58.6	12,279	19,521	128	5,266	41,044	60	19,862	329,934	29,360
Semiconductors and related devices	3674	172.0	6,884	84.8	22,343	32,191	193	8,803	45,518	99	51,272	517,899	65,623
Electronic components, n.e.c.	3679	180.2	5,119	107.8	11,818	23,670	204	6,172	30,209	126	43,193	104,377	31,071
Motor vehicles and car bodies	3711	227.8	10,434	192.8	45,993	151,682	237	12,956	54,782	207	55,696	269,061	200,939
Motor vehicle parts and accessories	3714	400.0	13,955	313.8	31,074	75,058	470	18,169	38,641	373	43,084	115,662	107,417
Aircraft.	3721	264.6	11,493	122.0	23,107	62,940	201	9,894	49,124	86	20,904	241,948	49,504
Aircraft engines and engine parts	3724	120.4	4,966	66.5	11,726	22,408	76	3,618	47,423	42	9,061	216,260	17,519
Aircraft parts and equipment, n.e.c.	3728	163.1	6,187	92.0	12,827	19,511	116	5,149	44,276	64	11,904	185,992	16,841
Ship building and repairing	3731	118.2	3,631	87.0	6,538	10,601	95	3,222	33,771	71	5,720	81,129	9,586
Guided missiles and space vehicles	3761	97.7	4,637	30.1	10,939	19,423	61	3,401	55,942	20	7,770	388,510	14,315
Search and navigation equipment.	3812	253.0	10,962	103.1	24,299	35,039	185	9,070	48,971	69	20,369	296,926	29,435
Instruments to measure electricity.	3825	68.5	2,544	32.2	5,685	8,826	62	2,599	41,913	31	7,512	243,117	11,909
Surgical and medical instruments	3841	98.2	3,099	58.5	9,400	13,996	99	3,453	34,772	60	10,820	181,840	15,442
Surgical appliances and supplies	3842	96.4	2,846	61.6	8,901	13,381	93	2,919	31,247	59	9,637	163,342	14,850
Photographic equipment and supplies	3861	77.3	3,061	39.2	14,862	22,119	61	2,720	44,522	35	14,707	416,640	21,584

¹ Represents the average of production workers plus all other employees for the payroll period ended nearest the 15th of the month.

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

No. 1221. Manufactures Summary: 1995

[Sum of State totals may not add to U.S. total because U.S. and State figures were independently derived]

REGION, DIVISION, AND STATE	ALL EMPLOYEES ¹			PRODUCTION WORKERS ¹		VALUE ADDED BY MANUFACTURES ²		Value of ship- ments ³ (mil. dol.)
	Number (1,000)	Payroll		Total (1,000)	Wages (mil. dol.)	Total (mil. dol.)	Per production worker (dol.)	
		Total (mil. dol.)	Per employee (dol.)					
U.S.	18,741	623,418	33,266	12,254	317,106	1,709,180	139,482	3,589,157
Northeast	3,556	128,904	38,247	2,103	55,549	314,215	149,398	588,435
N.E.	1,094	40,148	36,715	640	17,350	91,449	142,844	168,228
ME	91	2,622	28,969	67	1,708	7,030	105,087	14,477
NH	103	3,304	32,017	68	1,708	8,659	127,518	15,437
VT	46	1,389	30,065	31	702	3,445	111,126	8,888
MA	467	17,860	38,261	261	7,334	41,901	160,539	75,250
RI	85	2,511	29,611	56	1,271	5,426	96,895	10,074
CT	302	12,462	41,264	157	4,627	24,988	158,756	44,102
M.A.	2,463	88,757	36,039	1,463	38,199	222,766	152,267	420,207
NY	982	35,809	36,458	572	14,489	89,924	157,209	162,945
NJ	545	21,748	39,942	285	7,862	48,260	169,157	92,383
PA	936	31,199	33,329	606	15,847	84,582	139,643	164,879
Midwest	5,795	203,839	35,177	3,863	111,986	527,949	136,679	1,152,166
E.N.C.	4,333	157,402	36,328	2,902	87,766	396,854	136,761	860,527
OH	1,084	39,506	36,438	730	22,669	103,713	142,112	222,923
IN	666	22,371	33,595	480	13,998	60,992	127,093	130,899
IL	1,009	35,823	35,521	633	17,281	93,763	148,031	193,995
MI	970	40,534	41,783	637	22,687	87,398	137,310	204,018
WI	604	19,169	31,731	422	11,131	50,989	120,770	109,953
W.N.C.	1,462	46,437	31,765	961	24,221	131,095	136,429	291,639
MN	419	14,565	34,804	251	6,492	32,553	129,798	69,419
IA	254	7,740	30,495	182	4,728	26,215	144,357	59,003
MO	412	13,196	32,006	265	6,507	39,737	150,233	82,557
ND	22	547	24,959	15	323	1,559	101,253	4,382
SD	42	1,047	25,224	30	634	3,927	130,910	9,213
NE	111	3,010	27,237	81	1,907	9,361	115,420	24,425
KS	203	6,332	31,133	138	3,630	17,743	129,037	42,641
South	6,171	179,884	29,150	4,326	100,776	566,442	130,927	1,246,052
S.A.	3,084	90,126	29,224	2,127	48,846	267,071	125,562	549,734
DE	63	2,815	44,610	30	908	5,666	188,857	14,469
MD	191	6,834	35,800	112	3,227	17,148	152,969	34,478
DC	14	692	50,109	3	108	1,636	511,375	2,051
VA	401	12,057	30,066	284	6,894	40,134	141,515	75,762
WV	80	2,561	32,008	58	1,616	8,948	155,612	17,765
NC	889	23,828	26,815	653	13,892	73,919	113,252	152,709
SC	375	10,580	28,250	278	6,438	31,467	113,314	66,903
GA	592	16,916	28,565	416	9,455	50,220	120,604	112,023
FL	480	13,845	28,850	294	6,309	37,934	129,114	73,574
E.S.C.	1,486	39,911	26,853	1,122	25,366	123,279	109,923	280,640
KY	302	8,965	29,657	222	5,609	33,632	151,564	79,406
TN	552	14,965	27,092	414	9,302	43,126	104,294	96,208
AL	387	10,384	26,810	290	6,610	29,079	100,375	65,481
MS	244	5,597	22,911	196	3,844	17,443	88,811	39,547
W.S.C.	1,601	49,847	31,142	1,078	26,564	176,092	163,365	415,678
AR	244	5,760	23,617	194	4,018	18,640	96,180	42,929
LA	176	5,868	33,415	125	3,644	30,405	243,822	74,493
OK	163	4,536	27,896	115	2,770	14,622	127,483	33,165
TX	1,019	33,683	33,071	645	16,132	112,425	174,384	265,092
West	3,219	110,790	34,419	1,962	48,796	300,575	153,230	602,504
Mountain	693	21,950	31,683	434	10,504	71,442	164,537	134,905
MT	22	566	25,950	15	373	1,779	115,519	4,899
ID	71	2,162	30,358	50	1,232	7,932	159,917	16,484
WY	10	262	26,505	8	176	1,030	137,307	2,705
CO	192	6,434	33,528	116	3,042	18,943	164,009	37,538
NM	43	1,262	29,208	28	609	8,358	301,736	12,561
AZ	198	6,715	33,914	114	2,629	20,912	182,954	35,185
UT	119	3,498	29,391	79	1,873	9,498	120,222	20,089
NV	38	1,052	27,841	25	572	2,991	118,694	5,445
Pacific	2,526	88,840	35,169	1,527	38,292	229,133	150,015	467,600
WA	339	12,256	36,185	203	5,763	28,150	138,672	69,062
OR	227	7,312	32,266	156	4,056	19,677	126,298	42,338
CA	1,928	68,288	35,425	1,146	27,877	178,358	155,636	348,765
AK	16	475	30,082	12	335	1,459	122,571	3,994
HI	17	509	29,434	11	261	1,489	139,112	3,440

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

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, Geographic Area Statistics*, series M95(AS)-3.

No. 1222. Average Hourly Earnings of Production Workers in Manufacturing Industries, by State: 1980 to 1996

[In dollars]

STATE	1980	1990	1994	1995	1996	STATE	1980	1990	1994	1995	1996
United States	7.27	10.83	12.07	12.37	12.78	Missouri	7.26	10.74	11.77	12.16	12.54
Alabama	6.49	9.39	10.75	11.14	11.53	Montana	8.78	11.51	12.49	12.94	13.00
Alaska	10.22	12.46	10.96	11.00	11.14	Nebraska	7.38	9.66	10.94	11.19	11.51
Arizona	7.29	10.21	11.17	11.16	11.49	Nevada	7.72	11.05	11.83	12.62	13.59
Arkansas	5.71	8.51	9.65	10.05	10.41	New Hampshire	5.87	10.83	11.74	11.94	12.24
California	7.70	11.48	12.44	12.55	12.83	New Jersey	7.31	11.76	13.36	13.56	13.86
Colorado	7.63	10.94	12.26	12.51	12.82	New Mexico	5.79	9.04	10.13	10.68	10.97
Connecticut	7.08	11.53	13.53	13.71	14.01	New York	7.18	11.11	12.19	12.50	12.78
Delaware	7.58	12.39	13.92	14.20	14.00	North Carolina	5.37	8.79	10.19	10.56	10.96
District of Columbia	8.46	12.51	13.46	13.66	13.68	North Dakota	6.56	9.27	10.19	10.75	10.94
Florida	5.98	8.98	9.97	10.18	10.54	Ohio	8.57	12.64	14.40	14.42	14.69
Georgia	5.77	9.17	10.34	10.71	11.17	Oklahoma	7.36	10.73	11.42	11.52	11.77
Hawaii	6.83	10.99	12.22	12.82	12.79	Oregon	8.65	11.15	12.31	12.75	13.01
Idaho	7.55	10.60	11.88	11.46	12.15	Pennsylvania	7.59	11.04	12.49	12.81	13.39
Illinois	8.02	11.44	12.25	12.64	13.03	Rhode Island	5.59	9.45	10.35	10.62	10.94
Indiana	8.49	12.03	13.55	13.91	14.33	South Carolina	5.59	8.84	10.00	10.16	10.26
Iowa	8.67	11.27	12.45	12.73	13.13	South Dakota	6.50	8.48	9.19	9.36	9.59
Kansas	7.37	10.94	12.15	12.39	12.88	Tennessee	6.08	9.55	10.50	10.78	11.28
Kentucky	7.34	10.70	11.81	12.22	12.70	Texas	7.15	10.47	11.13	11.47	11.82
Louisiana	7.74	11.61	13.11	13.43	13.66	Utah	7.02	10.32	11.28	11.62	12.22
Maine	6.00	10.59	11.91	12.39	12.71	Vermont	6.14	10.52	11.96	12.21	12.42
Maryland	7.61	11.57	13.15	13.49	13.71	Virginia	6.22	10.07	11.24	11.72	12.19
Massachusetts	6.51	11.39	12.59	12.79	13.04	Washington	(NA)	12.61	14.86	14.73	14.70
Michigan	9.52	13.86	16.13	16.31	16.67	West Virginia	8.08	11.53	12.60	12.64	12.96
Minnesota	7.61	11.23	12.58	12.79	13.18	Wisconsin	8.03	11.11	12.41	12.76	13.14
Mississippi	5.44	8.37	9.41	9.76	10.19	Wyoming	7.01	10.83	11.79	11.96	13.16

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

No. 1223. Manufacturers' Shipments, Inventories, and Orders: 1950 to 1996

[In billions of dollars, except ratio]

YEAR	Shipments	Inventories (Dec. 31) ¹	Ratio of inventories to shipments ²	New orders	Unfilled orders (Dec. 31)	YEAR	Shipments	Inventories (Dec. 31) ¹	Ratio of inventories to shipments ²	New orders	Unfilled orders (Dec. 31)
1950	224	32	1.41	242	41	1974	1,018	158	1.86	1,047	187
1951	261	39	1.78	287	67	1975	1,039	160	1.77	1,023	171
1952	270	42	1.71	279	76	1976	1,186	175	1.66	1,194	180
1953	298	44	1.90	283	60	1977	1,358	188	1.58	1,381	202
1954	280	42	1.71	268	48	1978	1,523	209	1.55	1,580	259
1955	318	45	1.63	330	60	1979	1,727	239	1.61	1,771	303
1956	333	51	1.74	340	68	1980	1,853	262	1.61	1,876	326
1957	345	52	1.90	331	53	1981	2,018	280	1.74	2,015	323
1958	327	50	1.75	324	47	1982	1,960	307	1.97	1,946	309
1959	363	53	1.68	369	52	1983	2,071	308	1.67	2,105	343
1960	371	54	1.79	363	45	1984	2,288	334	1.75	2,315	370
1961	371	55	1.67	373	47	1985	2,334	330	1.72	2,348	384
1962	400	58	1.76	401	48	1986	2,336	318	1.63	2,342	390
1963	421	60	1.66	426	53	1987	2,476	333	1.58	2,513	427
1964	448	63	1.62	460	65	1988	2,695	363	1.56	2,739	471
1965	492	68	1.58	505	79	1989	2,840	385	1.65	2,875	505
1966	538	78	1.70	557	97	1990	2,912	398	1.70	2,934	527
1967	558	84	1.71	565	104	1991	2,878	384	1.65	2,866	515
1968	603	90	1.76	608	110	1992	3,005	375	1.47	2,979	489
1969	642	98	1.81	647	115	1993	3,128	376	1.44	3,092	453
1970	634	101	1.91	625	106	1994	3,348	396	1.38	3,357	462
1971	671	102	1.76	672	107	1995	3,589	419	1.41	3,604	477
1972	756	108	1.58	770	120	1996	3,735	425	1.37	3,770	512
1973	875	124	1.63	913	158						

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

Source: U.S. Bureau of the Census, Current Industrial Reports, *Manufacturers' Shipments, Inventories, and Orders: 1987-1996*, series M3; and monthly press releases.

No. 1224. Value of Manufactures Shipments, Inventories, and New Orders, by Industry: 1992 to 1996

[In millions of dollars. 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				
		1992	1993	1994	1995	1996	1992	1993	1994	1995	1996	1992	1993	1994	1995	1996
All manufacturing industries . . .	(X)	3,004,727	3,127,625	3,348,019	3,589,395	3,735,183	374,906	375,982	395,974	419,188	424,462	2,978,548	3,092,381	3,356,797	3,604,239	3,770,368
Durable goods	(X)	1,541,866	1,630,635	1,789,576	1,921,210	2,005,997	232,318	233,306	247,001	258,699	263,937	1,515,694	1,596,974	1,794,508	1,937,624	2,039,558
Stone, clay, and glass prods.	32	62,521	65,610	71,230	75,991	83,365	7,846	7,443	7,688	8,378	8,385	61,921	65,945	71,562	76,149	83,133
Primary metals	33	138,287	142,685	161,188	180,303	173,619	19,967	20,093	22,555	24,066	24,801	136,849	144,018	167,685	178,681	174,865
Fabricated metal products	34	166,532	175,118	190,544	204,820	215,427	23,372	23,402	25,127	26,927	26,940	165,793	172,121	191,099	205,894	217,468
Industrial machinery and equipment	35	258,662	278,063	313,407	351,113	378,366	45,688	47,092	51,189	57,033	56,104	258,608	277,416	325,788	356,282	379,817
Computer and office equipment	357	66,709	69,249	78,230	90,249	101,207	10,352	10,473	10,640	12,668	10,875	65,066	68,497	81,595	89,836	101,542
Electronic and other	36	216,764	233,622	266,405	299,838	323,001	29,709	30,765	34,571	37,855	38,025	217,966	233,991	266,386	305,736	321,390
Electronic components	367	73,642	81,236	97,131	119,288	128,942	9,759	10,311	11,391	12,766	12,755	75,215	79,822	97,910	124,689	127,371
Transportation equipment ¹	37	399,270	414,694	450,809	462,849	471,661	61,533	59,140	59,364	56,350	60,504	377,147	386,643	440,817	472,332	502,861
Motor vehicles and parts	371	238,384	267,365	314,637	326,415	334,633	12,920	13,865	15,341	15,780	16,151	(NA)	(NA)	(NA)	(NA)	(NA)
Aircraft, missiles, and parts	372, 6	131,366	116,345	103,316	102,531	103,753	44,234	40,905	39,521	36,031	39,834	110,830	88,070	90,217	114,099	134,097
Instruments and related products	38	134,941	137,387	138,400	140,911	146,199	23,925	22,492	22,273	22,643	23,623	132,314	133,249	133,232	137,593	145,455
All other durable goods	39	164,889	183,456	197,953	205,385	214,359	20,278	22,879	24,234	25,447	25,555	165,096	183,591	197,939	204,957	214,569
Nondurable goods ¹	(X)	1,462,861	1,496,990	1,558,443	1,668,185	1,729,186	142,588	142,676	148,973	160,489	160,525	1,462,854	1,495,407	1,562,289	1,666,615	1,730,810
Food and kindred products ¹	20	406,964	422,220	430,963	448,408	471,633	31,376	31,529	32,652	34,752	34,966	(NA)	(NA)	(NA)	(NA)	(NA)
Beverages	208	57,957	58,562	61,347	64,415	68,786	5,708	5,721	5,902	6,477	6,496	(NA)	(NA)	(NA)	(NA)	(NA)
Tobacco products	21	35,198	28,383	30,021	32,984	34,492	6,871	6,575	6,063	6,110	6,661	(NA)	(NA)	(NA)	(NA)	(NA)
Textile mill products	22	70,753	73,955	78,027	79,743	78,505	8,297	8,821	9,346	9,807	9,591	(NA)	(NA)	(NA)	(NA)	(NA)
Paper and allied products	26	133,201	133,263	143,649	172,637	161,968	13,843	13,795	14,290	17,165	16,026	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products ¹	28	305,420	314,907	333,905	362,127	372,848	35,476	35,505	36,737	39,606	41,033	(NA)	(NA)	(NA)	(NA)	(NA)
Industrial chemicals	281,2,6,8	157,619	158,771	169,909	187,404	182,458	17,548	17,142	17,170	19,131	19,565	(NA)	(NA)	(NA)	(NA)	(NA)
Drugs, soaps, toiletries	283-4	110,667	117,888	122,352	131,042	144,458	13,473	13,964	14,425	15,641	16,322	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum and coal products	29	150,227	144,834	143,328	151,261	180,122	10,975	9,865	10,661	10,957	11,844	(NA)	(NA)	(NA)	(NA)	(NA)
Rubber and plastics products	30	113,593	122,777	135,145	145,426	143,888	12,517	12,770	14,145	15,137	15,549	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. X Not applicable. ¹ Includes industries not shown separately.

Source: U.S. Bureau of the Census, Current Industrial Reports, series M3-1(96), *Manufactures' Shipments, Inventories, and Orders: 1987-1996*, and monthly press releases.

No. 1225. Value of Manufactures Shipments, Inventories, and New Orders, by Market Grouping: 1992 to 1996

[In millions of dollars. 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				
	1992	1993	1994	1995	1996	1992	1993	1994	1995	1996	1992	1993	1994	1995	1996
All manufacturing industries . . .	3,004,727	3,127,625	3,348,019	3,589,395	3,735,183	374,906	375,982	395,975	419,188	424,462	2,978,548	3,092,381	3,356,797	3,604,239	3,770,368
Market categories:															
Automotive equipment	120,632	134,229	155,405	160,464	166,342	6,588	6,776	7,284	7,545	7,757	120,525	134,526	155,704	160,532	166,309
Home goods and apparel	185,588	195,574	205,984	210,752	219,057	25,717	27,423	29,409	30,367	30,017	185,713	194,976	205,506	211,076	219,062
Consumer staples	678,502	691,290	706,035	743,516	802,092	60,459	59,946	61,776	65,825	67,145	678,613	691,347	706,180	743,712	802,369
Machinery and equipment	500,554	524,481	569,332	611,998	653,894	86,871	86,613	92,596	98,204	102,411	491,195	505,543	567,922	625,988	674,135
Business supplies	241,855	248,469	258,551	276,979	293,499	22,130	21,886	23,155	25,397	25,008	241,903	248,204	258,914	277,220	293,768
Construction materials and supplies	184,498	199,228	217,556	228,364	235,093	22,283	23,488	24,939	26,489	26,260	184,385	198,463	219,305	228,339	235,777
Defense products	92,889	86,034	80,792	77,559	76,791	23,630	21,858	19,230	16,106	15,441	78,493	73,528	76,283	76,063	84,210
Other material, supplies and intermediate products	1,000,209	1,048,320	1,154,364	1,279,763	1,288,415	127,228	127,992	137,585	149,255	150,423	997,721	1,045,794	1,166,983	1,281,309	1,294,738
Durable goods industries:															
Nondefense capital goods	389,448	400,884	429,273	473,290	503,781	81,647	80,561	86,884	92,823	96,822	378,293	380,331	428,365	486,726	526,951
Excluding aircraft and parts	308,487	330,245	368,195	410,354	439,096	55,008	55,908	60,949	67,559	66,583	309,575	331,278	380,162	414,026	439,222
Defense capital goods	91,809	84,083	77,095	72,895	72,622	24,809	22,557	19,665	16,291	15,641	76,155	71,902	71,682	70,317	79,998
Durables excluding capital goods	1,060,609	1,145,668	1,283,208	1,375,025	1,429,594	125,862	130,188	140,452	149,585	151,474	1,061,246	1,144,741	1,294,461	1,380,581	1,432,609
Miscellaneous series:															
Producers' durable equipment	966,194	1,032,476	1,143,390	1,221,177	1,287,317	141,976	144,239	155,298	164,346	168,322	954,302	1,016,531	1,151,556	1,239,053	1,305,998
Household durable goods	82,276	88,522	95,167	99,063	108,875	12,008	12,499	13,834	14,639	15,182	82,175	88,914	95,500	98,950	108,715
Information technology industries	173,501	179,581	199,494	220,273	241,414	28,652	28,506	29,923	33,276	32,202	172,526	178,434	202,338	220,072	239,996
Health care equipment and products	99,690	106,335	108,895	114,553	125,293	14,089	14,233	14,422	15,485	16,337	101,002	105,737	107,265	114,012	125,407

Source: U.S. Bureau of the Census, Current Industrial Reports, series M3-1(96), *Manufactures' Shipments, Inventories, and Orders: 1987-1996*, and monthly press releases.

No. 1226. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, by Industry Group: 1992 to 1996

[Based on seasonally adjusted data. NA = Not available]

INDUSTRY	INVENTORY/SHIPMENTS RATIO					UNFILLED ORDERS/SHIPMENTS RATIO				
	1992	1993	1994	1995	1996	1992	1993	1994	1995	1996
All manufacturing industries	1.47	1.44	1.38	1.41	1.37	3.51	3.15	2.93	2.84	2.96
Durable goods industries	1.77	1.67	1.62	1.62	1.60	4.30	3.80	3.51	3.43	3.54
Stone, clay, and glass products	1.54	1.32	1.24	1.29	1.24	1.31	1.23	1.17	1.13	1.04
Primary metals	1.74	1.62	1.46	1.65	1.68	1.88	1.86	1.92	1.92	1.98
Fabricated metal products	1.63	1.55	1.56	1.57	1.52	1.75	1.46	1.40	1.38	1.45
Industrial machinery and equipment . .	2.10	1.95	1.93	1.93	1.80	2.53	2.27	2.55	2.45	2.37
Electronic, other electrical equipment . .	1.62	1.57	1.55	1.49	1.42	2.34	2.21	1.95	1.95	1.79
Transportation equipment	1.77	1.68	1.56	1.50	1.60	12.40	11.51	10.63	10.90	12.48
Instruments and related products	2.13	1.99	1.96	1.94	1.97	5.07	4.70	4.23	3.84	3.68
Nondurable goods industries	1.15	1.17	1.11	1.16	1.11	0.75	0.70	0.75	0.67	0.71
Food and kindred products	0.91	0.88	0.85	0.89	0.88	(NA)	(NA)	(NA)	(NA)	(NA)
Tobacco products	1.91	2.58	2.25	2.10	2.10	(NA)	(NA)	(NA)	(NA)	(NA)
Textile mill products	1.42	1.50	1.44	1.59	1.49	(NA)	(NA)	(NA)	(NA)	(NA)
Paper and allied products	1.24	1.25	1.11	1.23	1.22	(NA)	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products	1.36	1.36	1.25	1.31	1.29	(NA)	(NA)	(NA)	(NA)	(NA)
Petroleum and coal products	0.90	0.95	0.89	0.89	0.77	(NA)	(NA)	(NA)	(NA)	(NA)
Rubber and plastics products	1.27	1.21	1.16	1.28	1.31	(NA)	(NA)	(NA)	(NA)	(NA)

Source: U.S. Bureau of the Census, Current Industrial Reports, Series, M3-1(96), *Manufacturers' Shipments, Inventories, and Orders: 1987-1996*.

No. 1227. Industrial Production Indexes, by Industry: 1980 to 1996

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

INDUSTRY	SIC code	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996
Total index	(X)	79.7	88.0	99.0	98.9	96.9	100.0	103.4	108.6	112.1	115.2
Manufacturing	(X)	75.5	85.7	99.0	98.5	96.2	100.0	103.7	109.4	113.2	116.4
Durable goods	(X)	73.4	85.6	100.5	99.0	95.5	100.0	105.5	113.4	119.7	125.8
Lumber and products	24	80.4	92.0	104.3	101.6	94.5	100.0	100.9	105.9	106.2	109.8
Furniture and fixtures	25	79.1	88.9	102.4	100.9	94.8	100.0	104.7	107.9	108.6	108.9
Stone, clay, and glass products	32	96.5	98.0	107.4	105.0	97.2	100.0	102.1	107.9	109.1	111.0
Primary metals	33	108.0	98.4	104.9	104.0	96.7	100.0	105.5	113.0	115.7	117.1
Fabricated metal products	34	94.4	96.5	104.8	101.2	96.2	100.0	104.4	112.0	115.7	118.6
Industrial, commercial machinery	35	70.5	81.2	103.0	100.1	95.4	100.0	109.9	125.3	141.4	156.4
Computer and office equipment	357	13.9	50.3	83.0	81.4	82.3	100.0	121.5	152.1	213.6	297.0
Electrical machinery	36	48.6	68.4	85.8	87.7	89.6	100.0	110.0	126.3	148.2	163.3
Transportation equipment	37	70.3	88.8	105.1	102.3	96.5	100.0	103.7	107.4	105.0	106.2
Motor vehicles and parts	371	65.8	95.0	101.2	95.3	88.5	100.0	113.7	129.7	128.5	127.1
Instruments	38	73.6	89.3	98.2	98.4	99.8	100.0	100.6	99.9	100.4	102.8
Nondurable goods	(X)	78.3	86.0	97.3	97.9	97.0	100.0	101.7	105.0	106.2	106.3
Food	20	79.7	88.9	95.9	97.0	98.4	100.0	102.1	103.7	105.7	106.4
Tobacco products	21	108.5	101.8	105.4	105.4	98.9	100.0	84.0	103.7	106.2	105.6
Textile mill products	22	89.0	86.5	96.5	93.2	92.7	100.0	105.5	110.8	109.9	106.7
Paper and products	26	75.2	83.8	85.4	96.0	96.8	100.0	104.0	108.4	109.9	108.0
Printing and publishing	27	72.4	90.2	103.5	103.1	99.1	100.0	100.8	100.5	99.8	98.5
Chemicals and products	28	75.9	79.4	95.1	97.3	96.4	100.0	101.0	104.1	106.5	108.8
Petroleum products	29	95.9	89.5	99.3	100.3	99.1	100.0	102.9	103.0	104.5	106.5
Rubber and plastics products	30	53.3	73.8	91.2	92.2	90.7	100.0	106.8	116.1	118.9	120.6
Leather and products	31	181.6	126.1	111.9	107.8	98.4	100.0	101.0	93.6	85.7	80.0

X Not applicable. ¹ 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. 1228. Index of Manufacturing Capacity: 1980 to 1996

[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	Index of capacity	RELATION OF OUTPUT TO CAPACITY (percent)			YEAR	Index of capacity	RELATION OF OUTPUT TO CAPACITY (percent)		
		All manu- facturing	Primary processing	Advanced pro- cessing			All manu- facturing	Primary processing	Advanced pro- cessing
1980	95	79	77	81	1991	123	78	80	77
1985	109	79	79	79	1992	126	80	82	78
1986	112	79	80	78	1993	128	81	84	79
1987	114	81	84	80	1994	132	83	87	81
1988	116	84	87	82	1995	136	83	87	81
1989	118	84	86	82	1996	142	82	86	80
1990	121	81	84	80					

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

No. 1229. Finances and Profits of Manufacturing Corporations: 1980 to 1996

[In billions of dollars. Beginning 1989, 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 880 for individual industry data]

ITEM	1980	1985	1989	1990	1991	1992	1993	1994	1995	1996
Net sales	1,897	2,331	2,745	2,811	2,761	2,890	3,015	3,261	3,519	3,753
Net operating profit	129	138	182	173	133	151	180	241	268	278
Net profit:										
Before taxes	145	137	189	160	100	33	119	244	277	313
After taxes	92	88	136	112	68	23	84	175	200	231
Cash dividends	36	46	65	62	60	63	67	70	81	95
Net income retained in business	58	42	71	49	7	-40	17	105	120	137

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

No. 1230. Manufacturing Establishments—Export-Related Shipments and Employment: 1977 to 1991

[The export-related employment data do not include the jobs involved in the export of nonmanufactured goods and various services sold to foreign buyers. Thus, jobs in the manufacturing sector that relate to the export of nonmanufactured goods are excluded from the estimates. In addition, all of the indirect exports being reported are domestically produced; that is, they exclude imports. See source for further details on methodology]

INDUSTRY	MANUFACTURER'S SHIPMENT VALUE				MANUFACTURING EMPLOYMENT			
	Total ¹ (bil. dol.)	Export related		Export related as percent of shipments	Total (1,000)	Export related		Export related as percent of total employment
		Total (bil. dol.)	Direct exports ² (bil. dol.)			Total (1,000)	Direct exports ³ (1,000)	
1977	1,358.4	142.4	85.8	10.4	19,590	1,990	1,106	10.2
1980	1,852.7	249.8	151.2	13.5	20,647	2,639	1,486	12.8
1981	2,017.5	271.7	164.3	13.4	20,264	2,604	1,486	12.9
1983	2,055.3	246.4	141.6	12.0	18,737	2,173	1,118	11.6
1984	2,253.8	268.3	151.0	11.9	19,141	2,179	1,083	11.4
1985	2,278.9	286.7	156.9	12.6	18,788	2,295	1,083	12.2
1986	2,260.3	294.3	159.4	13.0	18,371	2,318	1,061	12.6
1987	2,475.9	378.8	193.6	15.3	18,900	2,771	1,185	14.7
1988	2,684.7	395.3	242.9	14.7	19,147	2,638	1,412	13.8
1989	2,793.0	460.5	287.4	16.5	19,042	2,948	1,610	15.5
1990	2,873.5	515.0	293.7	17.9	18,840	3,214	1,614	17.1
1991	2,826.2	546.9	314.1	19.4	18,062	3,363	1,697	18.6

X Not applicable. ¹ Includes total domestic and export shipments for all manufacturing establishments. ² Includes only the value of manufactured products exported by the producing plants. ³ Employment is limited to paid employees in manufacturing plants producing the export product. The number of employees related to export shipments was calculated for each establishment, aggregated by industry and by States, and inflated to a level comparable to the plant value of exports reported in the official foreign trade statistics at port value.

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, 1987 and 1992 Census of Manufactures*; and *Exports from Manufacturing Establishments*, series AR91-1.

No. 1231. U.S. Exports of Manufactures, Origin of World Exports of Manufacture: 1981 to 1995

[In billions of dollars, except percents]

ITEM	1981-85, average	1986-90, average	1991	1992	1993	1994	1995
U.S. manufactures export value	143	212	305	327	339	381	429
Machinery & transport equipment	93	135	190	203	211	233	257
Chemicals	21	31	40	44	45	52	61
Other	29	46	75	80	83	97	111
Origin of world exports of manu. (percent):							
United States ¹	12.7	10.7	12.0	11.8	12.1	11.8	11.5
Machinery & transport equip	17.1	14.2	15.1	14.9	15.2	14.4	13.5
Chemicals	15.0	12.9	13.3	13.1	13.6	13.2	13
Other	8.5	5.9	7.6	7.4	7.8	7.9	8.2
Germany ²	13.4	14.6	14.2	13.9	12.0	11.7	12.2
Japan	13.4	12.4	11.9	11.8	12.5	11.8	11.4
Other G-7 countries ³	21.7	21.5	21.6	21.0	19.9	19.7	20.4
East Asian NICs ⁴	6.4	7.8	8.2	8.1	8.9	8.8	9.4

¹ U.S. exports are domestic exports only. ² Prior to 1991, data for are for former West Germany only. ³ Other Group of Seven (G-7) Countries: Canada, France, Italy, United Kingdom. ⁴ 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. 1232. Alcoholic Beverages—Summary: 1980 to 1995

[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. Includes Puerto Rico. Excludes imports]

ITEM	Unit	1980	1985	1990	1991	1992	1993	1994	1995
Beer: Breweries operated	Number	86	103	286	333	392	480	619	879
Production ¹	Mil. bbl. ²	193	194	202	204	202	202	203	200
Value of shipments ³	Mil. dol.	9,362	12,216	15,186	15,925	17,302	16,629	16,714	(NA)
Tax-paid withdrawals	Mil. bbl. ²	172	175	182	183	182	180	180	177
Stocks on hand	Mil. bbl. ²	15	14	14	14	13.4	13.7	13.4	13.5
Distilled spirits:									
Production facilities operated	Number	143	117	143	145	143	132	150	153
Production ¹	Mil. tax gal.	236	117	122	129	110	111	99	104
Tax-paid withdrawals ⁵	Mil. tax gal.	330	306	251	242	246	240	229	235
Stocks on hand ⁴	Mil. tax gal.	696	588	451	459	365	420	410	452
Whiskey: Production ¹	Mil. tax gal. ⁵	87	65	77	75	62	59	59	69
Stocks on hand	Mil. tax gal. ⁵	566	467	365	368	309	361	354	358
Still wines: Production ¹	Mil. wine gal. ⁷	982	622	577	478	484	417	438	412
Tax-paid withdrawals ⁸	Mil. wine gal. ⁷	340	414	468	387	387	354	356	366
Stocks on hand ⁹	Mil. wine gal. ⁷	486	602	562	539	525	520	477	398
Effervescent wines ¹⁰ , Prod. ¹	Mil. wine gal. ⁷	26.8	32.0	26.9	22.8	24.7	27.7	23.7	24.3
Tax-paid withdrawals	Mil. wine gal. ⁷	24.1	30.9	26.2	24.6	24.1	24.4	23.7	22.8
Stocks on hand	Mil. wine gal. ⁷	11.9	21.3	22.1	20.4	18.8	19.5	16.5	16.8

NA Not available. ¹ Production represents total amount removed from fermenters, including distilling material, and includes increase after fermentation (by amelioration, sweetening, and addition of wine spirits). ² Barrels of 31 wine gallons. ³ Source: U.S. Bureau of the Census, *Census of Manufactures, and Annual Survey of Manufactures*. ⁴ Excludes alcohol produced for industrial use. Also excludes vodka and gin production. ⁵ 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. ⁶ A proof gallon is the alcoholic equivalent of a U.S. gallon at 60 degrees F, containing 50 percent of ethyl alcohol by volume. ⁷ Includes ethyl alcohol. ⁸ A wine gallon is the U.S. gallon equivalent to the volume of 231 cubic inches. ⁹ Includes special natural wines. ¹⁰ Excludes distilling materials. ¹¹ Includes champagne, other effervescent wines, and artificially carbonated wines.

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. 1233. Tobacco Products—Production, Consumption, and Expenditures: 1980 to 1995

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

ITEM	Unit	1980	1985	1988	1989	1990	1991	1992	1993	1994	1995
PRODUCTION											
Cigarettes	Billions	714	665	695	677	710	695	719	661	726	747
Cigars ²	Billions	4	3	2	2	2	2	2	2	2	2
Tobacco ¹	Mil. lb.	163	158	142	141	142	142	141	133	132	131
Consumption per person											
Cigarettes	Lb. ³	7.9	6.8	6.1	5.7	5.5	5.4	5.4	5.0	5.0	5.0
Cigarettes	1,000	4	3	3	3	3	3	3	3	3	3
Cigars ⁴	Number	24	18	14	14	13	12	12	11	12	13
Consumer expenditures											
Cigarettes	Bil. dol.	21.0	32.2	37.8	40.9	43.8	47.4	48.4	49.0	47.7	48.6
Cigarettes	Bil. dol.	19.4	30.3	35.9	38.3	41.6	45.2	45.8	46.2	44.5	45.1
Cigars	Bil. dol.	0.7	0.7	0.6	0.7	0.7	0.7	0.6	0.7	0.9	1.0
Other	Bil. dol.	0.9	1.2	1.4	1.4	1.5	1.8	2.0	2.1	2.3	2.5

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

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

No. 1234. Textiles and Apparel Products—U.S. Exports and Imports: 1993 to 1995

[In millions of dollars. Excludes glass fibers, rubber and leather apparel, and clothing donated for charity. Minus sign (-) indicates deficit]

PRODUCT	EXPORTS			GENERAL IMPORTS			MERCHANTISE TRADE BALANCE		
	1993	1994	1995	1993	1994	1995	1993	1994	1995
Total	10,977	12,208	14,023	42,225	45,952	49,348	-31,248	-33,744	-35,325
Textile yarn fabrics	6,025	6,592	7,372	8,438	9,208	9,910	-2,413	-2,616	-2,538
Textile yarn	1,045	1,213	1,530	1,146	1,335	1,407	-101	-122	123
Cotton fabric, woven	641	725	834	1,552	1,498	1,613	-911	-773	-779
Woven fabric of manmade textiles	883	925	952	1,261	1,291	1,224	-378	-366	-272
Woven fabric of textile material	210	236	258	662	695	690	-452	-459	-432
Special yarns	1,418	1,588	1,748	878	977	1,040	540	611	708
Other	1,828	1,905	2,050	2,939	3,412	3,936	-1,111	-1,507	-1,886
Apparel	4,952	5,616	6,651	33,787	36,744	39,438	-28,835	-31,128	-32,787

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption*, Report FT925, monthly.

No. 1235. Cotton, Wool, and Manufactured Fibers—Consumption, by End-Use: 1995

[Represents products manufactured by U.S. mills. Excludes glass fiber]

YEAR	Total (mil. lb.)	COTTON		WOOL		MANUFACTURED FIBERS					
		Total (mil. lb.)	Percent of end-use	Total (mil. lb.)	Percent of end-use	Total (mil. lb.)	Percent of end-use	Artificial ¹		Synthetic ²	
								Total (mil. lb.)	Percent of end-use	Total (mil. lb.)	Percent of end-use
Total	16,696	5,456	32.7	205	1.2	11,036	66.1	498	3.0	10,538	63.1
Apparel	6,727	3,599	53.5	146	2.2	2,983	44.3	265	3.9	2,718	40.4
Home textiles	2,522	1,484	58.8	14	0.6	1,024	40.6	89	3.5	936	37.1
Floor coverings	3,727	26	0.7	29	0.8	3,672	98.5	-	0.0	3,672	98.5
Industrial ³	3,720	347	9.3	15	0.4	3,357	90.3	144	3.9	3,213	86.4

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

Source: Fiber Economics Bureau, Inc., Roseland, NJ, *Textile Organon*, monthly (copyright).

No. 1236. Broadwoven and Knit Fabrics—Shipments, Foreign Trade, and Apparent Consumption: 1995

[Fabric blends as shown in the CIR report, MQ22T are reported based on the chief weight of the fiber; whereas, fabrics blends as shown for imports are based on the chief value of the fiber. Apparent consumption represents new domestic supply and is derived by subtracting exports for the total manufacturers' shipments plus imports]

PRODUCT DESCRIPTION	Manufacturers' shipments (quantity)	IMPORTS FOR CONSUMPTION		Percent imports to manufacturers' shipments	EXPORTS OF DOMESTIC MERCHANDISE		Percent exports to manufacturers' shipments	Apparent consumption (quantity)
		Quantity	Value (\$1,000)		Quantity	Value (\$1,000)		
BROADWOVEN FABRICS (quantity 1,000 sq. meters)								
Cotton fabrics ¹	3,752,553	1,485,065	1,763,351	39.6	277,748	613,950	7.4	4,959,870
Manmade fiber fabrics	9,858,192	838,609	1,208,233	8.5	335,120	819,615	3.4	10,361,681
Silk fabrics	461	28,820	295,476	6,255.7	2,086	15,895	452.8	27,195
Wool fabrics	135,616	27,055	268,456	19.9	9,296	56,539	6.9	153,375
KNIT FABRICS (quantity in 1,000 kilograms)								
Total	1,026,905	66,692	389,696	6.5	51,137	368,308	5.0	1,042,460
Pile fabrics	74,997	37,739	81,585	50.3	20,310	141,100	27.1	92,426
Elastic fabric (D)	(D)	10,602	139,475	(D)	10,816	75,765	(D)	(D)
Other warp knit fabrics	126,728	4,310	39,814	3.4	3,650	41,545	2.9	127,388
Other narrow knit fabrics	(D)	424	5,878	(D)	1,738	16,026	(D)	(D)
Other knit fabrics	783,919	13,617	122,944	1.7	14,623	93,872	1.9	782,913

D Data withheld to avoid disclosing figures for individual companies. ¹Includes all cotton and chiefly cotton mixed with manmade fiber.

Source: U.S. Bureau of the Census, *Manufacturing Profiles*, series MP/95.

No. 1237. Selected Apparel—Shipments, Foreign Trade, and Apparent Consumption: 1996

[Quantity in thousands of units, value in millions of dollars]

PRODUCT DESCRIPTION	MANUFACTURERS' SHIPMENTS		EXPORTS OF DOMESTIC MERCHANDISE		IMPORTS FOR CONSUMPTION		APPARENT CONSUMPTION	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Men's and boys' apparel:								
Sweaters	14,869	214.4	22,488	100.6	35,568	466.7	27,949	580.5
Tops, except sweaters	(D)	(D)	371,352	1,020.3	1,352,496	6,722.8	(D)	(D)
Bottoms	625,097	7,963.3	256,728	1,032.4	610,488	3,926.8	978,857	10,857.7
Coats:								
Suit type, dress and sport	11,268	711.7	6,816	57.0	11,472	414.4	15,924	1,069.1
Other coats	53,205	1,491.0	20,376	99.1	117,528	1,840.4	150,357	3,232.3
Suits	(D)	(D)	5,184	54.0	79,584	532.1	(D)	(D)
Swimwear	2,269	21.7	1,320	6.3	42,456	149.2	43,405	164.6
Women's and girls' apparel:								
Sweaters	46,996	611.5	3,972	22.7	152,088	1,601.2	195,112	2,190.0
Dresses	182,780	4,373.5	21,432	114.1	189,564	1,928.0	350,912	6,187.4
Tops, except sweaters	596,810	4,156.1	176,748	434.6	1,013,892	5,433.2	1,433,954	9,154.7
Skirts	83,820	1,208.7	10,248	43.8	137,760	1,063.2	211,332	2,228.1
Coats and jackets	48,320	1,816.9	16,632	124.7	127,560	2,847.6	159,248	4,539.8
Bottoms, except skirts	481,963	4,971.8	139,896	480.3	597,072	3,800.5	939,139	8,292.0
Suits	(D)	(D)	7,032	62.4	105,288	361.1	(D)	(D)
Swimwear	51,153	741.7	7,332	37.6	30,780	189.3	74,601	893.4
Foundation garments	350,982	1,881.6	294,288	372.3	352,524	867.1	409,218	2,376.4
Infants' apparel	151,677	785.8	104,952	135.7	424,260	1,039.9	470,985	1,690.0

D Data withheld to avoid disclosing figures for individual companies. Source: U.S. Bureau of the Census, *Manufacturing Profiles*, series MP/95.

No. 1238. Footwear—Production, Foreign Trade, and Apparent Consumption: 1995

[Quantity in thousands of pairs, value in thousands of dollars]

PRODUCT DESCRIPTION	Manufacturers' shipments (quantity)	EXPORTS OF DOMESTIC MERCHANDISE		Percent exports to domestic production	IMPORTS FOR CONSUMPTION		Apparent consumption (quantity)	Percent imports to apparent consumption
		Quantity	Value		Quantity	Value		
Total	227,108	27,679	387,685	12.2	1,390,614	13,365,237	1,590,043	87.5
Rubber or plastic uppers and rubber or plastic soles	30,312	4,938	50,927	16.3	458,744	2,950,431	484,118	94.8
Waterproof	13,216	434	5,662	3.3	3,110	21,427	15,892	19.6
Not waterproof	17,096	4,504	45,265	26.3	455,634	2,929,004	468,226	97.3
Leather uppers	83,720	9,515	242,353	11.4	579,078	8,512,081	653,283	88.6
Athletic	6,499	4,426	155,767	68.1	405,706	5,193,728	407,779	99.5
Leather soles	27,492	3,454	44,907	12.6	51,374	1,255,710	75,412	68.1
Made with steel safety toes	1,579	233	12,147	(D)	6,068	126,875	(D)	(D)
Boots, except with steel safety toes	7,718	552	16,380	(D)	5,213	123,236	(D)	(D)
Shoes, except with steel safety toes	18,195	2,669	16,380	14.7	40,093	1,005,599	55,619	72.1
Other soles	49,729	1,635	41,679	3.3	121,998	2,062,643	170,092	71.7
Made with steel safety toes	2,659	-	-	(NA)	-	-	2,659	(NA)
Boots, except with steel safety toes	7,890	1,635	41,679	20.7	121,998	2,062,643	128,253	95.1
Shoes, except with steel safety toes	39,180	-	-	(NA)	-	-	39,180	(NA)
Fabric uppers	112,203	13,226	94,405	11.8	352,792	1,902,725	451,769	78.1
Rubber or plastic soles	72,983	11,894	83,987	16.3	300,445	1,630,495	361,534	83.1
Athletic	20,791	6,757	68,289	32.5	83,382	813,208	97,416	85.6
All other	52,192	5,137	15,698	9.8	217,063	817,287	264,118	82.2
With all other soles	39,220	1,332	10,418	3.4	52,347	272,230	90,235	58.0

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

Source: U.S. Bureau of the Census, *Manufacturing Profiles*, series MP/95, annual.

No. 1239. Inorganic Chemicals and Pharmaceutical Preparations—Value of Shipments: 1990 to 1995

PRODUCT	Product code	Unit	1990	1992	1993	1994	1995
INORGANIC CHEMICAL SHIPMENTS							
Alkalies and chlorine	2812	Mil. dol	3,187	2,761	2,278	2,281	3,144
Inorganic color pigments	2816	Mil. dol	2,261	2,428	2,391	2,471	2,284
Inorganic chemicals n.e.c.	2819	Mil. dol	13,612	12,838	11,860	12,442	14,252
Household bleaching compounds	28422 00	Mil. dol	724	920	915	950	929
PHARMACEUTICAL PREP. SHIPMENTS							
Affecting neoplasms, endocrine systems, and metabolic disease	28341	Mil. dol	2,743	3,318	3,820	4,132	4,020
Acting on the central nervous system and sense organs	28341	Mil. dol	7,219	8,319	8,927	9,065	10,064
Acting on the cardiovascular system	28343	Mil. dol	4,815	4,909	5,234	5,547	6,172
Acting on the respiratory system	28344	Mil. dol	3,724	5,277	5,510	5,675	5,190
Acting on the digestive system	28345	Mil. dol	4,840	7,111	7,996	8,827	8,571
Acting on the skin	28346	Mil. dol	1,558	1,760	1,980	2,219	2,193
Vitamin, nutrient, and hematonic preps.	28347	Mil. dol	2,588	2,924	3,560	4,408	4,523
Affecting parasitic and infective disease	28348	Mil. dol	5,411	7,018	7,234	8,189	7,197
Pharmaceutical preps. for veterinary use	28349	Mil. dol	1,057	1,327	1,353	1,315	1,585

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

No. 1240. Fiber, Rugs, Carpeting, and Sheets—Shipments: 1990 to 1995

PRODUCT	Unit	1990	1991	1992	1993	1994	1995
All fibers ¹	Mil. lbs.	812	837	926	1,008	1,036	953
Raw wool	Mil. lbs.	133	152	151	157	153	142
Noils, and fiber ⁴	Mil. lbs.	20	21	21	23	19	20
Other fibers	Mil. lbs.	659	664	754	829	864	792
Knit fabric production	Mil. lbs.	1,901	1,963	2,179	2,188	2,230	2,173
Rugs, carpet and carpeting	Mil. dol.	8,527	7,980	8,749	9,283	9,895	9,538
Sheets	1,000 doz.	15,408	14,001	15,198	16,331	16,190	15,210
Pillow covers	1,000 doz.	12,665	11,301	12,523	14,464	14,622	14,199
Terry towels	1,000 doz.	42,376	43,158	48,789	47,161	48,348	47,933

¹ 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. ² Data are shown on a scoured basis for greasy wool. ³ Shorn and pulled wool of sheep excludes raw wool consumed in cotton system spinning to avoid disclosing figures for individual companies. ⁴ 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. Bureau of the Census, 1990-1992, *Current Industrial Reports*, MA22K, MA22Q, and MQ23X, annual; thereafter, *Manufacturing Profiles*, series MP, annual.

No. 1241. Glass Containers, Clay Construction Products, and Refractories—Shipments: 1990 to 1995

[In millions of dollars]

PRODUCT	1990	1991	1992	1993	1994	1995
Glass container shipments	285	279	283	290	285	269
Brick shipments ¹	1,014	883	920	1,006	1,103	1,054
Clay tile shipments	687	639	646	701	723	719
Clay pipe and fittings shipments	60	51	38	32	33	36
Refractory shipments	2,003	1,947	1,956	1,930	1,997	2,218
Clay	771	784	786	773	851	929
Nonclay	1,232	1,163	1,170	1,157	1,146	1,289

¹ Building or common and face bricks. ² Floor and wall tile including quarry tile.

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

No. 1242. Aluminum Mill Products—Value of Shipments, by Product: 1994 and 1995

[In thousands of pounds]

PRODUCT DESCRIPTION	1994			1995		
	Gross shipments	Total receipts	Net shipments ¹	Gross shipments	Total receipts	Net shipments ¹
Aluminum mill products . . .	16,258,871	1,512,739	14,746,132	15,723,667	1,316,423	14,407,244
Sheet, plate, and foil	11,418,043	806,452	10,611,591	10,807,903	801,942	10,005,961
Sheet and plate	10,362,372	806,452	9,555,920	9,745,709	801,942	8,943,767
Sheet	10,058,901	806,452	9,252,449	9,407,190	801,942	8,605,248
Plate	303,471	-	303,471	338,519	-	338,519
Foil	1,055,671	-	1,055,671	1,062,194	-	1,062,194
Rod, wire, and cable	1,101,483	448,648	652,835	1,159,235	382,325	776,910
Rod and bare wire	486,812	448,648	38,164	552,322	382,325	169,997
Cable and insulated wire	614,671	(²)	614,671	606,913	(²)	606,913
Rod, bar, pipe, tube and shapes	3,378,637	257,639	3,120,998	3,396,583	132,156	3,264,427
Rod and bar(rolled and extruded)	346,469	257,639	88,830	431,121	132,156	298,965
Pipe and tube (extruded and drawn)	300,326	(³)	300,326	317,648	(³)	317,648
Extruded shapes	2,731,842	-	2,731,842	2,647,814	-	2,647,814
All other	360,708	-	360,708	359,946	-	359,946

- Represents zero. ¹ Net shipments are derived by subtracting domestic receipts from gross shipments. ² Included in "Rod and bare wire." ³ Included in "Rod and bar."

Source: U.S. Bureau of the Census, *Manufacturing Profiles*, 1995, series MP/95.

No. 1243. Iron and Steel Industry—Summary: 1980 to 1996

[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	1980	1985	1990	1991	1992	1993	1994	1995	1996
Steel mill products, apparent supply . . .	Mil. tons ¹	95.2	96.4	97.8	88.3	95.0	104.6	121.3	114.8	125.0
Net shipments	Mil. tons	83.9	73.0	85.0	78.8	82.2	89.0	95.1	97.5	100.9
Exports	Mil. tons	4.1	1.0	4.3	6.3	4.3	4.0	3.8	7.1	5.0
Imports	Mil. tons	15.5	24.3	17.2	15.8	17.1	19.5	30.1	24.4	29.2
Scrap consumed	Mil. tons	66.6	53.2	50.1	50.5	51.9	58.5	60.0	62.0	62.0
Scrap inventory	Mil. tons	6.9	4.0	3.6	3.7	3.3	3.6	4.0	4.1	5.3
Iron and steel products: Exports	Mil. tons	5.1	1.6	5.3	7.4	5.3	4.7	4.9	8.2	6.2
Imports	Mil. tons	17.9	27.6	21.9	20.2	21.9	21.8	32.7	27.3	32.1
Capacity by steelmaking process	Mil. net tons	153.7	133.6	116.7	117.6	113.1	109.9	108.2	112.4	116.1
Revenue	Bil. dol.	37.7	28.4	30.9	27.1	26.9	29.5	33.5	35.1	35.0
Net income	Bil. dol.	0.7	-1.8	0.1	-2.0	-4.1	1.9	1.3	1.5	0.4
Stockholders' equity	Bil. dol.	14.5	6.9	4.3	2.8	-0.6	3.7	7.1	8.6	9.2
Total assets	Bil. dol.	30.8	24.0	28.3	27.4	28.8	30.6	32.0	35.3	35.1
Capital expenditures	Bil. dol.	2.7	1.6	2.6	2.3	1.8	1.5	2.2	2.5	2.1
Working capital ratio ²	Ratio	1.6	1.3	1.6	1.4	1.4	1.3	1.6	1.5	1.7
Inventories	Bil. dol.	4.7	3.5	4.7	4.4	4.5	4.6	4.9	0.3	0.3
Average employment	1,000	399	208	164	146	140	127	126	123	119
Hours worked	Million	758	419	350	304	293	274	273	269	259
Producer price indexes: ³										
Iron and steel, total	1982=100 . .	90.0	104.8	117.2	114.1	111.5	116.0	122.0	128.8	125.9
Steel mill products	1982=100 . .	86.6	104.7	112.1	109.5	106.4	108.2	113.4	120.1	115.7
Blast and electric furnace products	1982=100 . .	97.1	95.6	120.1	116.9	115.5	115.7	117.0	126.0	157.0
Iron ore	1982=100 . .	87.8	97.5	83.3	83.6	83.7	82.7	82.7	91.8	96.7
Scrap, iron and steel	1982=100 . .	140.9	112.6	166.0	147.6	139.2	172.5	192.9	202.7	190.8
Foundry and forge shop products	1982=100 . .	89.7	105.2	117.2	119.0	120.1	121.3	123.9	129.3	132.6

NA Not available. ¹ In millions of short tons. ² Current assets to current liabilities. ³ 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. 1244. Raw Steel, Pig Iron, and Ferroalloys Production: 1980 to 1996

[In millions, except percent]

ITEM	1980	1985	1990	1991	1992	1993	1994	1995	1996
Raw steel (net tons):									
World production	790.4	792.9	848.8	811.1	810.2	814.6	800.1	833.8	824.9
U.S. production	111.8	88.3	98.9	87.9	92.9	97.9	100.6	104.9	105.3
Percent of world	14	11	12	11	12	12	13	13	13
Furnace:									
Basic oxygen process	67.6	51.9	58.5	52.7	57.6	59.3	61.0	62.5	60.4
Electric	31.2	29.9	36.9	33.8	35.3	38.5	39.6	42.4	44.9
Open hearth	13.0	6.4	3.5	1.4	-	-	-	-	-
Grade:									
Carbon	94.7	76.7	86.6	77.9	82.5	86.9	89.5	92.7	93.6
Alloy and stainless	17.1	11.6	12.3	10.0	10.4	11.0	11.1	12.3	11.7
Pig iron and ferroalloys, production (sh. tons)	68.7	50.4	54.8	48.6	52.2	53.1	54.4	56.1	54.5

- Represents or rounds to zero.

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

No. 1245. Steel Products—Net Shipments, by Market Classes: 1980 to 1996

[In thousands of short tons. Comprises carbon, alloy, and stainless steel]

MARKET CLASS	1980	1985	1990	1991	1992	1993	1994	1995	1996
Total ¹	83,853	73,043	84,981	78,846	82,241	89,022	95,084	97,494	100,878
Automotive	12,124	12,950	11,100	10,015	11,092	12,719	14,753	14,622	14,665
Steel service centers, distributors	16,172	18,439	21,111	19,464	21,328	23,714	24,153	23,751	27,124
Construction, incl. maintenance ²	8,742	7,900	9,245	9,161	9,536	13,429	10,935	14,892	15,561
Containers, packaging, shipping	5,551	4,089	4,474	4,278	3,974	4,355	4,495	4,139	4,101
Machinery, industrial equipment, tools	4,543	2,271	2,388	1,982	1,951	2,191	2,427	2,310	2,410
Steel for converting and processing	4,117	5,484	9,441	8,265	9,226	9,451	10,502	10,440	10,245
Rail transportation	3,155	1,061	1,080	999	1,052	1,223	1,248	1,373	1,400
Contractors' products	3,148	3,330	2,870	2,306	2,694	2,913	3,348	(³)	(³)
Oil and gas industries	5,371	2,044	1,892	1,425	1,454	1,526	1,703	2,643	3,254
Electrical equipment	2,441	1,869	2,453	2,102	2,136	2,213	2,299	2,397	2,401
Appliances, utensils, and cutlery	1,725	1,466	1,540	1,388	1,503	1,592	1,736	1,589	1,713

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

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

No. 1246. Machine Tools—New Orders and Shipments: 1970 to 1996

[In millions of dollars. Data represents total industry volume based on reports from over 200 manufacturers]

YEAR	METAL CUTTING TOOLS					METAL FORMING TOOLS				
	New orders (net)		Shipments		Order backlog, end of period	New orders (net)		Shipments		Order backlog, end of period
	Total	Domestic	Total	Domestic		Total	Domestic	Total	Domestic	
1970	651	507	993	827	471	261	227	450	412	235
1971	609	524	672	554	408	252	223	326	286	162
1972	1,009	877	714	627	702	403	368	304	267	260
1973	1,825	1,550	1,074	935	1,454	787	717	427	388	621
1974	2,017	1,716	1,445	1,241	2,025	566	470	585	522	600
1975	916	781	1,879	1,548	1,062	361	284	573	485	388
1976	1,662	1,477	1,482	1,270	1,243	541	485	578	474	351
1977	2,202	1,981	1,651	1,470	1,794	793	729	630	560	515
1978	3,373	3,043	2,189	1,960	2,981	973	901	825	729	663
1979	4,495	3,866	2,930	2,606	4,546	1,126	991	947	860	843
1980	3,885	3,496	3,681	3,206	4,750	870	744	1,011	879	701
1981	2,228	1,946	4,105	3,552	2,873	717	617	991	824	427
1982	1,064	890	2,895	2,599	1,043	433	372	710	600	151
1983	1,152	1,069	1,372	1,200	823	545	489	474	430	222
1984	1,916	1,700	1,607	1,484	1,132	1,000	932	679	609	542
1985	1,853	1,652	1,742	1,549	1,243	675	610	803	743	414
1986	1,544	1,377	1,890	1,685	897	581	507	688	621	307
1987	1,451	1,294	1,677	1,499	672	667	536	647	538	327
1988	2,708	2,316	1,575	1,400	1,806	883	749	825	702	386
1989	1,977	1,723	2,359	2,059	1,423	832	719	837	704	380
1990	2,070	1,772	2,330	2,004	1,164	894	761	970	851	304
1991	1,894	1,549	1,872	1,595	1,186	748	546	802	625	251
1992	1,756	1,532	1,918	1,605	1,025	726	609	678	547	299
1993	2,322	2,177	2,160	1,955	1,187	971	825	1,044	881	225
1994	2,989	2,833	2,640	2,424	1,535	1,698	1,519	1,370	1,196	554
1995	3,105	2,770	3,195	2,923	1,445	1,748	1,398	1,671	1,347	630
1996, est.	3,489	3,180	3,050	2,708	1,665	1,752	1,173	1,973	1,583	520

Source: The Association For Manufacturing Technology, McLean, VA, *The Economic Handbook of The Machine Tool Industry*, annual, (copyright).

No. 1247. Metalworking Machinery—Shipments: 1990 to 1996

[In thousands of dollars]

PRODUCT	Product code	1990	1991	1992	1993	1994	1995	1996
Metalworking machinery	(X)	3,426,081	3,171,748	3,073,862	3,222,456	3,780,074	4,547,133	4,607,757
Metal cutting type	(X)	2,371,266	2,138,713	1,999,668	2,084,864	2,463,001	3,036,592	3,141,128
Boring machines	3541D	(¹)	77,655	97,975	84,667	129,835	172,417	88,929
Drilling machines ¹	3541D	184,118	37,374	37,472	37,076	51,987	78,936	99,453
Gear cutting machines	35413	102,678	115,226	79,600	87,662	100,612	137,121	164,258
Grinding and polishing machines	35414	433,574	378,946	335,121	360,894	443,262	549,580	541,277
Lathes	35415	355,632	317,087	258,885	305,488	390,843	478,003	451,115
Milling machines	35416	214,254	201,137	210,403	180,174	138,852	194,757	199,667
Machining centers ²	3541A	436,999	361,799	377,941	485,375	552,358	698,780	779,433
Station type machines	3541B	502,066	450,366	434,705	374,772	455,138	477,021	498,592
Other metal cutting machine tools ³	3541C	141,945	195,654	166,535	166,248	200,114	246,237	315,977
Metal forming type	(X)	1,064,815	1,033,035	1,074,194	1,139,581	1,277,187	1,510,541	1,466,629
Punching and shearing machines	35421 pt.	200,050	180,756	172,872	213,402	294,441	326,318	331,382
Bending and forming machines	35421 pt.	229,271	204,357	270,044	255,299	253,219	256,882	283,020
Presses, except forging	35422	319,436	297,889	288,248	345,653	376,398	379,203	401,990
Forging machines	35423 pt.	73,947	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Other metal forming	35423 pt.	274,985	350,033	342,830	325,227	393,015	548,138	450,237

X Not applicable. ¹ Prior to 1991, boring machines are included with drilling machines. ² Multi-function numerically controlled machines. ³ Excludes those designed primarily for home workshops, labs, etc. ⁴ Forging machines included in other metal forming to prevent disclosure of individual company data.Source: U.S. Bureau of the Census, through 1992, *Current Industrial Reports*, MQ35W, annual; thereafter, *Manufacturing Profiles*, series MP95, annual.

No. 1248. Selected Types of Construction Machinery—Value of Shipments: 1990 to 1995

[In millions of dollars]

PRODUCT DESCRIPTION	Product code	1990	1991	1992	1993	1994	1995
Contractors' off-highway wheel tractors	3531A	360.5	244.2	324.0	355.6	492.4	548.3
Crawler (or tracklaying) tractors	3531B	1,092.6	998.7	775.6	(D)	(D)	(D)
Tractor shovel loaders	3531C	2,235.9	1,855.5	1,833.1	2,354.4	2,632.6	3,041.8
Power cranes, draglines, and shovels	3531E	1,511.8	1,239.1	1,582.3	1,719.4	2,252.5	2,555.2
Mixers, pavers, and related equipment	3531F	609.6	509.6	635.8	877.1	1,079.8	1,164.1
Scrapers; graders; compactors; rollers; off-highway trucks, trailers, and wagons; and rough terrain forklifts	3531G	2,023.7	1,631.6	1,560.7	(D)	2,164.2	2,645.3
Equipment for mounting on tractors	3531N	258.6	214.6	256.1	249.8	286.6	310.1
Self-propelled continuous ditchers and trenchers	3531P 20	129.7	112.2	124.1	143.6	174.0	194.0
Aerial work platforms	3531P 90	814.9	568.9	590.3	637.4	844.9	1,128.0

D Data withheld to avoid disclosing figures for individual companies.

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

No. 1249. Mining and Mineral Processing Equipment—Shipments: 1995 and 1996

PRODUCT	Product code	Number of companies 1996	QUANTITY (units)		VALUE (mil. dol.)	
			1995	1996	1995	1996
Mining and mineral processing equipment	(X)	(X)	(X)	(X)	1,629	1,751
Portable crushing, screening, washing, and combination plants	3531K	17	649	676	96	97
Underground mining machinery ¹	35325	34	4,396	6,838	463	434
Crushing/pulverizing/screening machinery ²	35327	46	3,871	4,026	295	332
Drills and other mining machinery, n.e.c. ³	35328	30	13,473,018	13,473,018	382	446
Portable drilling rigs and parts	3533A	30	2,155,275	2,267,380	393	443

X Not applicable. ¹ Excludes parts. ² Excludes portables and parts. ³ N.e.c. = Not elsewhere classified.

Source: U.S. Bureau of the Census, *Manufacturing Profiles*, 1995 series MP95, annual.

No. 1250. Engines, Refrigeration and Heating Equipment, and Pumps and Compressors—Shipments: 1993 to 1995

PRODUCT	Product code	Unit	1993	1994	1995
Internal combustion engines produced	(X)	1,000	21,342	24,178	23,248
Gasoline (except outboard, aircraft, and auto)	35191	1,000	20,561	23,287	22,263
Nonautomotive diesel (except aircraft)	35193	1,000	197	220	242
Automotive diesel	35194	1,000	608	661	734
Natural gas and LPG	35196	1,000	6	9	9
Air-conditioning, heating equipment shipments:					
Heat transfer equipment	35851	Mil. dol . . .	4,951	5,509	6,171
Unitary air-conditioners	35852	Mil. dol . . .	3,937	4,339	4,797
Commercial refrigeration equipment	35853 pt	Mil. dol . . .	183	220	203
Compressors and compressor units	35854	Mil. dol . . .	3,101	3,717	4,307
Condensing units, refrigeration (complete)	35855	Mil. dol . . .	240	277	286
Room air-conditioners and dehumidifiers	35856	Mil. dol . . .	824	1,106	1,267
Nonelectric warm air furnaces and humidifiers	3585C pt	Mil. dol . . .	1,334	1,426	1,522
Pumps and compressors ¹	(X)	Mil. dol . . .	6,216	6,563	7,198
Industrial pumps	35612	Mil. dol . . .	2,571	2,638	2,672
Domestic water systems	35613	Mil. dol . . .	330	339	329
Oil well, oilfield, and other pumps (including laboratory pumps)	35615	Mil. dol . . .	916	907	(NA)
Compressors and vacuum pumps	35631	Mil. dol . . .	2,400	2,680	(NA)

NA Not available. X Not applicable. ¹ Excludes hand pumps, automotive circulating pumps, compressors for icemaking and refrigeration equipment, air conditioning units, and replacements and repair parts for pumps and compressors.

Source: U.S. Bureau of the Census, *Manufacturing Profiles*, series MP95, annual.

No. 1251. Computer Shipments and Revenues: 1990 to 1995

[Revenue is in if-sold, end-user dollars]

ITEM	FACTORY REVENUE (mil. dol.)			SHIPMENTS (units)		
	1990	1994	1995	1990	1994	1995
United States:						
Supercomputer	789	856	631	531	821	735
Mainframe	12,538	5,120	3,753	3,952	2,662	2,095
Midrange	9,816	7,752	8,623	208,102	141,147	206,008
Workstation	3,147	4,976	5,715	161,488	316,083	357,765
Personal computer	18,661	37,313	47,708	9,848,593	18,605,000	22,582,900
Canada:						
Supercomputer	30	40	34	19	45	46
Mainframe	892	187	220	257	125	157
Midrange	744	459	711	17,832	9,598	20,145
Workstation	226	256	292	12,077	18,627	19,949
Personal computer	1,448	3,586	4,292	857,706	1,732,564	2,043,438
Western Europe:						
Supercomputer	506	493	480	291	341	647
Mainframe	10,862	5,339	4,894	4,307	2,031	2,111
Midrange	10,062	5,831	5,800	243,340	152,665	162,726
Workstation	2,396	2,862	3,752	121,577	202,048	235,171
Personal computer	14,810	22,861	29,483	7,954,834	11,760,736	14,672,340
Japan:						
Supercomputer	470	755	729	116	297	380
Mainframe	5,698	4,933	4,551	6,222	3,982	3,401
Midrange	5,392	4,781	5,494	231,571	175,716	187,124
Workstation	1,512	2,276	2,435	96,267	146,232	156,198
Personal computer	4,746	8,753	13,943	2,243,500	3,344,710	5,695,389
Asia/Pacific:						
Supercomputer	(NA)	74	133	(NA)	64	138
Mainframe	(NA)	360	346	(NA)	238	321
Midrange	(NA)	870	1,023	(NA)	21,862	33,128
Workstation	(NA)	343	739	(NA)	25,475	46,673
Personal computer	(NA)	9,323	12,305	(NA)	5,421,495	6,822,135
Rest of World:						
Supercomputer	(NA)	39	44	(NA)	39	49
Mainframe	(NA)	368	319	(NA)	519	230
Midrange	(NA)	724	836	(NA)	22,176	25,455
Workstation	(NA)	355	365	(NA)	26,412	25,594
Personal computer	(NA)	13,621	15,871	(NA)	7,029,806	8,354,798

NA Not available.

No. 1252. Microcontrollers and Chip Shipments: 1990 to 1993

ITEM	REVENUE (mil. dol.)				SHIPMENTS (millions of units)			
	1990	1991	1992	1993	1990	1991	1992	1993
Microcontrollers, worldwide								
8-bit	3,667	4,519	4,613	5,813	1,365	1,562	1,895	2,155
4-bit	2,079	2,618	(NA)	3,612	567	729	844	1,096
16-bit	1,394	1,598	(NA)	1,705	781	801	1,003	999
32-bit processors	194	303	(NA)	496	17	32	48	60
RISC ¹	1,402	2,456	4,363	8,427	26	44	61	77
CISC ²	175	270	305	642	1	1	3	7
256K DRAM ³ chips	1,227	2,186	4,057	7,785	25	42	27	70
1-Megabit DRAM chips	1,322	622	270	162	620	299	193	105
	4,229	3,776	2,644	2,031	665	835	821	601

NA Not available. ¹ RISC=Reduced Instruction Set Computer. ² CISC=Complex Instruction Set Computer. ³ DRAM=Dynamic Random Access Memory.

Source of tables 1251 and 1252: Dataquest, Inc., San Jose, CA, Consolidate Data Base, January 1994, and unpublished data.

No. 1253. Computers and Industrial Electronics—Factory Shipments: 1990 to 1995

[In millions of dollars]

ITEM	1990	1991	1992	1993	1994	1995
Computer and peripheral equipment, total . .	50,793	50,121	51,932	54,821	59,254	76,603
Computers	25,973	26,691	29,036	30,002	38,261	50,301
Peripheral equipment	24,820	23,430	22,896	24,819	20,993	26,302
Industrial electronics, total	26,183	26,126	26,778	27,250	29,916	32,568
Controlling, processing equipment	12,728	12,633	12,881	13,961	15,014	16,164
Testing, measuring equipment	6,859	7,492	7,484	7,332	8,416	9,564
Nuclear electronic equipment	567	571	533	519	466	461
Robots, accessories, and components	275	294	(NA)	(NA)	(NA)	(NA)
Other electronic equipment	5,754	5,137	5,880	5,438	6,020	6,380

NA Not available.

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

No. 1254. Computers and Office and Accounting Machines—Shipments: 1994 and 1995

PRODUCT	Product code	Number of companies, 1995	QUANTITY (number)		VALUE (mil. dol.)	
			1994	1995	1994	1995
Electronic computers (automatic data processors)	3571	207	16,697	20,525	38,261	50,301
Large-scale processing equipment ¹	35713	32	49	58	4,459	4,985
Medium- and small-scale processing equipment ²	35714	40	253	213	2,816	2,136
Personal computers and workstations	35715	89	13,206	15,686	24,298	36,225
Portable computers	35716	35	2,812	4,104	5,028	5,789
Computer storage devices and equipment	35721	92	(X)	(X)	5,556	8,072
Parts for computer storage devices and subassemblies	35722	17	(X)	(X)	1,952	2,208
Computer terminals	35751	57	(X)	(X)	1,244	1,086
Parts for computer terminals	35752	15	(X)	(X)	(³)	(D)
Computer peripheral equipment, n.e.c. ⁴	35771	259	(X)	(X)	11,944	12,624
Calculating and accounting machines	35784	45	(X)	(X)	1,262	1,234
Automatic typing and word processing machines	35792	3	(NA)	(D)	(D)	(D)
Mailing, letter handling, addressing machines	35795	30	(NA)	(X)	967	1,106
Other office machines, n.e.c. ⁴	35799	45	(X)	(X)	664	824
Printed circuit assemblies	36798	647	(X)	(X)	17,515	19,454
Magnetic and optical recording media	36950	61	(X)	(X)	4,777	5,389

D Data withheld to avoid disclosure of company data. NA Not available. X Not applicable. ¹ 64 megabytes in MINIMUM main memory configuration. ² Up to 64 megabytes in MINIMUM main memory configuration. ³ Data not shown because it is not comparable to prior years. ⁴ N.e.c. = Not elsewhere classified.

Source: U.S. Bureau of the Census, *Manufacturing Profiles, 1995*, series MP/95.

No. 1255. Consumer Electronics and Electronic Components—Factory Sales, by Product Category: 1985 to 1996

[In millions of dollars. Factory sales include imports]

PRODUCT CATEGORY	1985	1989	1990	1991	1992	1993	1994	1995	1996
Total	22,940	33,373	43,033	42,668	47,408	52,469	58,230	62,541	66,027
Video products:									
Direct-view color TV	5,514	6,490	6,197	5,979	6,591	7,316	7,225	6,798	6,492
LCD color TV	7	40	50	56	51	45	42	44	39
Projection TV	488	478	626	683	714	841	1,117	1,417	1,426
TV/VCR combinations	(NA)	(NA)	178	265	375	599	710	723	697
Monochrome TV	308	116	99	61	47	40	38	34	29
LCD Monochrome TV	(NA)	(NA)	40	33	31	32	33	32	31
VCR decks	4,173	2,625	2,439	2,454	2,947	2,851	2,869	2,767	2,621
Camcorders	793	2,007	2,260	2,013	1,841	1,958	1,985	2,135	2,084
Laserdisc players	23	50	72	81	93	123	122	108	66
Home satellite earth stations	(NA)	(NA)	421	370	379	408	900	1,265	1,493
Videocassette players	(NA)	(NA)	63	71	49	61	64	59	43
Home and portable products:									
Audio systems	1,372	1,217	1,270	1,264	1,370	1,464	1,703	1,677	1,672
Separate audio components	1,132	1,871	1,935	1,805	1,586	1,635	1,686	1,911	1,911
Home radios	379	379	360	310	324	307	306	284	284
Portable audio equipment	1,140	1,595	1,645	1,780	2,096	2,187	2,495	2,506	2,506
Mobile electronics:									
Aftermarket autostound equipment	961	1,125	1,192	1,232	1,467	1,604	1,898	1,931	1,814
Factory installed autostound	1,800	3,000	3,100	2,875	2,990	3,199	3,225	3,100	2,512
Cellular telephones	115	653	1,133	962	1,146	1,257	1,275	1,431	1,656
Pagers	(NA)	(NA)	118	139	168	198	230	300	370
Vehicle security	(NA)	(NA)	190	210	240	294	401	464	478
Home office products:									
Cordless telephones	280	830	842	1,125	1,091	1,046	1,106	1,141	1,176
Corded telephones	630	532	638	605	575	617	610	557	553
Telephone answering devices	325	838	827	1,000	934	1,026	1,153	1,077	1,004
Home computers	2,175	3,711	4,187	4,287	6,825	8,190	10,088	12,600	15,400
Computer peripherals	(NA)	(NA)	1,980	2,060	2,220	2,450	3,100	3,850	4,500
Computer software (inc. CDROM)	(NA)	(NA)	971	1,045	1,250	1,600	2,050	2,500	3,000
Personal wordprocessors	(NA)	688	656	600	555	558	504	451	404
Home fax machines	(NA)	(NA)	920	869	826	888	964	919	839
Home security systems	(NA)	1,000	1,440	1,030	830	940	1,110	1,130	1,350
Electronic gaming:									
Electronic gaming hardware	(NA)	(NA)	975	1,275	1,575	1,650	1,575	1,500	1,600
Electronic gaming software	(NA)	(NA)	2,400	2,325	2,400	2,625	2,925	3,000	3,500
Blank media:									
Blank audio cassettes	270	367	376	373	376	362	353	334	314
Blank videocassettes	1,055	923	948	980	872	779	730	708	725
Blank floppy diskettes	(NA)	297	314	308	320	345	353	373	300
Accessories and batteries:									
Electronic accessories	(NA)	829	793	721	715	759	874	816	821
Total primary batteries	(NA)	1,244	1,383	1,424	1,538	2,215	2,412	2,600	2,676
U.S. electronic component shipments	44,064	59,120	61,303	61,698	65,295	71,480	95,704	118,616	(NA)
Electron tubes	2,068	2,586	2,646	2,586	2,655	3,038	3,647	3,605	(NA)
Solid State products	14,651	22,246	23,543	26,238	27,292	31,534	46,379	63,601	(NA)
Passive and other components	27,345	34,288	35,114	32,874	35,349	36,909	45,677	51,409	(NA)

NA Not available.

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

No. 1256. Semiconductors, Printed Circuit Boards, and Other Electronic Components—Value of Shipments, by Class of Product: 1990 to 1995

[In millions of dollars. N.e.c.=not elsewhere classified]

CLASS OF PRODUCT	Product code	1990	1991	1992	1993	1994	1995
Transmittal, industrial, and special-purpose electron tubes (except x-ray)	36713	1,096.5	1,072.5	868.4	677.6	1,120.5	940.2
Electron tubes, receiving type	36714	24.2	21.6	24.6	27.1	(¹)	(¹)
Cathode ray picture tubes, including rebuilt	36714	1,344.1	1,903.5	2,022.8	2,231.5	2,627.1	2,868.6
Electron tube parts	36715	142.6	120.3	129.5	160.1	114.9	120.2
Printed circuit boards	36720	7,174.5	6,275.3	5,721.7	6,273.0	6,812.3	8,310.4
Integrated microcircuits (semiconductor networks)	36741	16,623.3	19,150.9	20,065.4	23,636.1	36,020.4	51,551.0
Transistors	36742	682.3	736.9	674.8	704.5	834.6	942.3
Diodes and rectifiers	36743	668.2	653.5	652.2	640.7	829.5	1,066.8
Other semiconductor devices	36749	5,741.0	5,760.8	5,899.2	6,908.2	9,915.4	12,936.3
Capacitors for electronic applications	36750	1,391.5	1,224.0	1,288.0	1,294.3	1,512.3	1,794.4
Resistors	36760	799.8	721.5	708.3	716.5	869.5	1,058.7
Coils, transformers, reactors, and chokes for electronic applications	36770	975.6	1,006.6	1,095.3	1,121.4	1,250.7	1,386.6
Coaxial connectors	36781	420.0	384.4	424.5	419.0	642.4	692.1
Cylindrical connectors	36782	513.6	483.4	503.9	482.8	511.3	547.8
Rack and panel connectors	36783	500.0	484.9	461.9	427.6	545.6	563.9
Printed circuit connectors	36784	804.9	843.8	855.2	859.4	923.4	1,023.7
Other connectors including parts	36785	1,085.0	1,068.9	1,123.3	1,152.8	1,377.2	1,419.4
Filters (except microwave) and piezoelectric devices	36791	457.4	451.5	448.8	534.3	674.1	691.3
Microwave components and devices	36793	1,368.7	1,178.5	1,258.4	1,136.3	1,227.2	1,269.1
Transducers, electrical/electronic input or output	36795	741.1	799.5	810.3	832.5	970.5	1,093.9
Switches, mechanical types for electronic circuitry	36796	579.4	545.1	541.7	572.6	621.5	654.6
Printed circuit assemblies	36798	8,269.3	12,590.4	13,745.8	15,087.1	17,514.8	20,555.7
All other electronic components n.e.c	36799	4,898.3	5,997.3	5,260.3	5,257.6	6,149.7	6,470.4

¹ Product codes combined to avoid disclosing figures for individual companies.

Source: U.S. Bureau of the Census, *Manufacturing Profiles*, 1995 series MP/95.

No. 1257. Selected Instruments and Related Products—Shipments: 1990 to 1995

[In millions of dollars]

PRODUCT	Product code	1990	1991	1992	1993	1994	1995
Automatic regulating and control valves	34918	1,418	1,537	1,579	1,648	1,807	1,846
Solenoid-operated valves (except nuclear and fluid power transfer)	34919	346	360	405	406	452	452
Aeronautical, nautical, and navigational instruments	38121	2,518	2,672	2,517	2,121	1,859	1,997
Search & detection, navigation & guidance systems and equipment	38122	32,420	31,774	31,311	28,604	25,567	24,887
Laboratory apparatus and laboratory furniture ¹	38210	1,675	1,612	1,715	1,598	1,811	1,828
Controls for monitoring residential and commercial environments and appliance	38220	1,982	1,982	2,197	2,310	2,521	2,537
Process control instruments	38230	5,224	5,230	5,731	5,935	6,240	6,299
Integrating and totalizing meters for gas and liquids	38242	725	698	727	777	859	917
Counting devices	38243	210	226	273	285	354	370
Motor vehicle instruments ²	38244	1,457	1,330	1,576	1,768	2,092	2,194
Integrating instruments, electrical	38251	396	390	439	461	440	447
Test equipment for testing electrical, radio and communication circuits, and motors	38252	6,156	6,525	6,493	6,572	7,582	8,838
Instruments to measure electricity	38253	586	584	558	526	554	557
Analytical, scientific instruments (except optical)	38260	4,412	4,519	4,886	4,766	5,534	5,690
Sighting, tracking, and fire-control equipment, optical type	38271	581	547	771	769	652	659
Optical instruments and lenses ³	38274	1,252	1,292	1,322	1,456	1,597	1,749
Aircraft engine instruments (except flight)	38291	579	682	590	552	430	427
Physical properties and kinematic testing equip.	38292	1,012	1,024	1,149	1,175	1,199	1,382
Nuclear radiation detection and monitoring instruments	38294	567	570	533	519	489	492
Commercial, geophysical, meteorological, and general purpose instruments	38295	1,140	1,335	1,361	1,271	1,344	1,348
Surveying and drafting instruments	38296	274	235	255	301	324	346

¹ Includes laboratory furniture. Prior to 1990, laboratory furniture was included in product class 38296. ² Includes some data previously classified in product class 37149, "Other motor vehicle parts and accessories, new, n.e.c." ³ 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. Bureau of the Census, through 1992, *Current Industrial Reports*, MA38B; thereafter *Manufacturing Profiles*, series MP, annual.

No. 1258. Fluid Power Products—Shipments: 1990 to 1995

[In millions of dollars. Includes aerospace]

PRODUCT	Product code	1990	1991	1992	1993	1994	1995
		Fluid power products, incl. aerospace. (X)	7,207	6,475	6,330	6,742	7,738
Hydraulic valves, nonaerospace type	34921	663	606	583	649	765	(NA)
Pneumatic valves, nonaerospace type	34922	458	434	458	418	525	(NA)
Aerospace type hydraulic & pneumatic valves	34923	498	527	443	356	284	(NA)
Fittings for metal and plastic tubing ¹	34924	500	471	516	518	604	(NA)
Hydraulic and pneumatic fittings and couplings for hose (nonaerospace)	34925	620	552	630	489	652	(NA)
Hydraulic and pneumatic hose or tube end fitting and assemblies (aerospace)	(X)	394	386	354	304	323	(NA)
Parts for hydraulic & pneumatic valves	34927	209	161	151	151	188	(NA)
Filters for hydraulic and pneumatic fluid power systems	35692	385	409	395	381	391	(NA)
Hydraulic and pneumatic cylinders etc.: Nonaerospace	35931	941	800	864	1,075	1,254	(NA)
Aerospace	35932	636	510	479	464	388	361
Parts for hydraulic and pneumatic cylinders ²	35933	264	269	171	197	202	(NA)
Hydraulic fluid power pumps and motors	35941	1,240	997	974	1,014	(NA)	(NA)
Parts for pumps and motors	35942	399	354	312	321	347	(NA)

NA Not available. X Not applicable. ¹ Used in fluid and power transfer systems (nonaerospace). ² Includes parts for actuators, accumulators, cushions, and nonvehicular shock absorbers.

Source: U.S. Bureau of the Census, through 1992, *Current Industrial Reports*, MA35N, annual; thereafter, *Manufacturing Profiles*, series MP/95, annual.

No. 1259. Switchgear, Switchboard Apparatus, Relays, and Industrial Controls—Shipments: 1990 to 1995

[In millions of dollars]

PRODUCT	Product code	Companies, 1995 (number)	1990	1991	1992	1993	1994	1995
			Power circuit breakers	36132	30	388	368	481
Low volt panelboards & dist. boards ¹	36133	128	1,722	1,643	1,531	1,681	1,744	1,996
Fuses and fuse equipment ²	36134	22	419	409	413	320	332	423
Molded case circuit breakers, 1,000 volts and under	36135	33	959	917	955	1,010	1,107	1,175
Duct ³	36136	27	194	184	189	200	228	239
Switchgear, except ducts	36139	132	1,324	1,398	1,615	1,581	1,636	1,726
General purpose and other relays	36251	116	805	772	782	751	676	742
Specific purpose industrial controls	36252	246	2,020	1,993	1,916	2,322	2,732	3,178
General purpose industrial controls	36253	271	2,912	2,879	2,778	3,326	3,689	4,195
Motor controller accessories ⁴	36254	124	452	434	448	476	502	498

¹ Includes other switching and interruption devices, 1,000 volts and below. ² Under 2,300 volts, except power distribution cutouts. ³ Includes plug-in units and accessories, 1,000 volts and under, consisting of enclosed sectionalized prefabricated bus bars rated 20 amperes or more, associated structures and fittings. ⁴ Includes parts for industrial controls.

Source: U.S. Bureau of the Census, through 1992, *Current Industrial Reports*, MA36A, annual; thereafter, *Manufacturing Profiles*, series MP/95, annual.

No. 1260. Selected Industrial Air Pollution Control Equipment—Shipments: 1995

[Quantity in number of units, value in millions of dollars]

PRODUCT	Product code	Number of companies	NEW ORDERS		SHIPMENTS		BACKLOG (Dec. 31)	
			Quantity	Value	Quantity	Value	Quantity	Value
			Selected indus. air pollution control equip.	35646	108	(S) 664,176	(S) 752,833	(S) 292,177
Particulate emissions collectors	(X)	87	(S) 476,226	(S) 489,761	(S) 203,114			
Electrostatic precipitators	35646 51	17	(S) 134,797	(S) 152,055	(S) 88,549			
Fabric filters	35646 54	55	53,992	239,347	51,955	227,912	7,627	60,194
Mechanical collectors	35646 55	35	6,116	65,885	6,030	61,624	700	26,519
Wet scrubbers	35646 58	30	1,263	36,197	1,245	48,170	258	27,852
Gaseous emissions control devices	(X)	39	1,089	199,753	1,204	220,227	234	76,027
Catalytic oxidation systems	35646 70	12	207	27,648	249	34,832	43	12,774
Thermal and direct oxidation systems	35646 72	15	302	68,697	311	71,402	38	9,273
Scrubbers (gas absorber)	35646 73	12	519	25,290	571	25,403	115	3,815
Gas absorbers	35646 76	5	35	7,147	38	3,087	23	5,477
Other	35646 79	18	10,048	38,197	9,948	42,845	386	13,036

S Figure does not meet publication standards. X Not applicable.

Source: U.S. Bureau of the Census, *Manufacturing Profiles*, series MP/95, annual.