1990

Section 27

Manufactures

This section presents summary data for manufacturing as a whole and more detailed information for major industry groups and selected specific products. The types of measures shown at the different levels include data for establishments; employment and wages; raw materials, fuels, and electricity consumed; 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 five years; the *Annual Survey of Manufactures;* and the *Current Industrial Reports* series, which presents monthly, quarterly, or annual data on production, shipments, and stocks for particular commodities. Indexes of industrial production are presented monthly in the Federal Reserve Board's *Federal Reserve Bulletin.* 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., New York, and the American Iron and Steel Institute, Washington, DC.

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 SEC. The BEA issues data on capital in manufacturing industries and capacity utilization rates in manufacturing. See also section 17, Business Enterprise, in this edition.

Censuses and annual surveys.—The first census of manufactures covered the year 1809. Between 1809 and 1963, a census was conducted at periodic intervals. Since 1967 it has been taken every 5 years (for years ending in "2" and "7"). 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, 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 1986 annual survey is based on a sample of about 56,000 establishments of an approximate total of 350,000. It comprises all large plants, which account for approximately two-thirds of total U.S. manufacturing employment, and a representative selection of small plants. Government-owned and -operated establishments are excluded.

The basic statistical measures of manufacturing activity, such as employment, payrolls, value added, etc., are defined in essentially the same way for both the annual surveys and the census of manufactures. However, the bases for computing average employment vary for different years. For example, beginning with 1949, average employment was calculated from the figures reported for the pay periods ending nearest the 15th of March, May, August, and November, whereas for 1947 such averages were based on 12 monthly employment figures. In 1967, the average employment calculation was revised to the pay periods which include the 12th of March, May, August, and November to provide data more comparable with other statistical series.

Establishments and classification.—The censuses of manufactures for 1947 through 1987 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 census; and the 1972 edition of the *Manual* and the *1977 Supplement* was 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 one 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 related group of products. In the main, an establishment is classified in a particular industry if its production of a product or product group exceeds in value added its production of any other product group. While some establishments produce only the products of the industry in which they are classified, few within an industry specialize to that extent. The statistics on employment, payrolls, value added, inventories, and expenditures, therefore, reflect both the primary and secondary activities of the establishments in that industry. For this reason care should be exercised in relating such statistics to the total shipments figures of products primary to the industry.

The censuses for 1947 through 1987 were conducted on an establishment basis. The term "establishment" signifies a single physical plant site or factory. It is not necessarily identical with 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.

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.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970.* See Appendix IV.

No. 1294. Gross National Product in Manufacturing in Current and Constant (1982) Dollars: 1970 to 1987

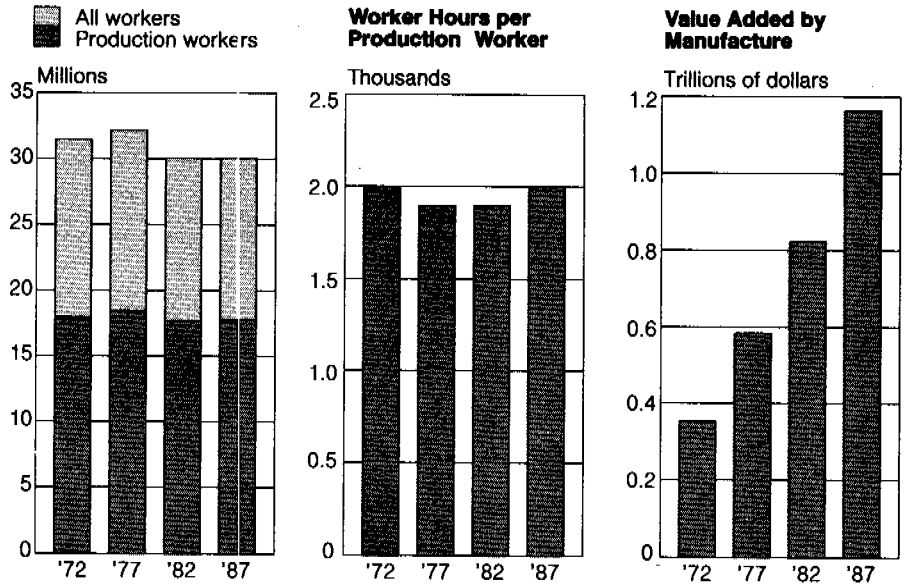
[**In billions of dollars, except percent.** For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
CURRENT DOLLARS										
Manufacturing	**252.3**	**357.3**	**581.0**	**643.1**	**634.6**	**683.2**	**771.9**	**789.5**	**820.1**	**853.6**
Percent of gross national product	24.8	22.3	21.2	21.0	20.0	20.0	20.5	19.7	19.3	18.9
Durable goods[1]	**145.9**	**206.3**	**351.8**	**385.8**	**362.5**	**385.6**	**451.1**	**458.8**	**466.1**	**480.0**
Lumber and wood products	7.1	10.4	18.7	17.1	16.0	20.5	22.8	22.2	24.7	27.7
Stone, clay, and glass products	8.0	11.5	19.0	18.2	20.2	20.2	22.9	24.8	25.9	27.5
Primary metal industries	18.4	28.5	44.3	49.8	35.3	30.3	36.3	34.8	33.7	36.4
Fabricated metal products	18.2	27.4	46.0	49.6	46.3	47.6	55.1	57.8	59.1	60.3
Machinery, except electrical	28.2	41.7	76.9	86.2	80.0	75.3	85.4	82.7	80.7	81.2
Electric and electronic equipment	21.5	28.3	55.0	60.7	61.8	67.7	79.9	82.2	83.6	85.0
Motor vehicles and equipment	16.2	19.9	26.7	31.5	29.5	39.0	49.6	53.7	51.4	49.9
Other transportation equipment	13.4	16.8	28.2	28.6	32.2	40.1	46.0	48.0	53.0	56.0
Instruments and related products	7.0	10.2	19.0	22.3	22.6	23.8	26.9	25.8	26.7	27.0
Nondurable goods[1]	**106.3**	**151.0**	**229.2**	**257.3**	**272.1**	**297.6**	**320.8**	**330.8**	**354.1**	**373.6**
Food and kindred products	26.7	39.1	52.2	57.9	61.4	64.7	66.6	69.8	71.6	74.0
Apparel and other textile products	9.0	11.5	17.1	18.7	18.9	20.3	20.7	20.6	21.0	22.5
Paper and allied products	9.7	13.9	23.1	25.1	26.7	27.8	31.9	33.1	35.2	39.5
Printing and publishing	12.9	18.6	31.6	35.2	38.4	42.4	47.6	52.5	55.1	58.2
Chemicals and allied products	19.1	30.0	45.5	53.3	55.3	59.6	62.0	63.8	70.1	77.1
Petroleum and coal products	6.9	9.9	16.8	19.8	24.4	28.3	33.7	32.2	37.0	33.6
Rubber and miscellaneous plastic products	7.2	10.4	16.8	19.3	19.3	21.9	24.4	25.9	28.1	30.0
CONSTANT (1982) DOLLARS										
Manufacturing	**506.8**	**547.5**	**665.4**	**676.1**	**634.6**	**675.5**	**757.9**	**786.8**	**804.6**	**839.5**
Percent of gross national product	21.0	20.3	20.9	20.8	20.0	20.6	21.6	21.7	21.6	21.8
Durable goods[1]	**304.8**	**325.2**	**401.5**	**404.9**	**362.5**	**390.4**	**466.8**	**493.7**	**505.0**	**525.2**
Lumber and wood products	14.7	16.4	20.4	18.9	16.0	18.1	20.4	20.1	21.5	23.5
Stone, clay, and glass products	17.7	18.7	21.1	19.8	18.2	19.7	21.6	22.6	22.2	23.1
Primary metal industries	46.8	44.0	46.4	48.2	35.3	30.0	34.7	34.2	34.3	34.3
Fabricated metal products	44.1	41.8	52.5	52.2	46.3	48.9	55.8	56.8	56.7	58.5
Machinery, except electrical	57.0	64.1	84.6	88.6	80.0	86.9	114.8	134.5	147.0	160.7
Electric and electronic equipment	34.4	37.6	62.7	64.3	61.8	66.2	77.3	79.7	80.3	82.5
Motor vehicles and equipment	26.5	33.7	33.7	33.9	29.5	38.5	47.9	50.9	44.9	40.3
Other transportation equipment	34.3	33.8	38.1	33.3	32.2	38.6	42.6	43.8	47.4	50.2
Instruments and related products	12.3	16.1	21.8	23.7	22.6	23.3	25.4	24.7	25.2	25.3
Nondurable goods[1]	**202.0**	**222.2**	**263.9**	**271.2**	**272.1**	**285.1**	**291.1**	**293.0**	**299.7**	**314.3**
Food and kindred products	43.8	48.2	56.7	58.2	61.4	62.0	60.8	63.1	61.6	63.7
Apparel and other textile products	14.0	16.7	20.1	20.3	18.9	19.8	20.4	19.9	19.8	21.4
Paper and allied products	18.8	20.2	24.6	24.6	26.7	28.7	30.2	30.2	31.3	33.0
Printing and publishing	29.9	32.4	36.9	38.3	38.4	39.9	41.3	43.0	42.3	42.6
Chemicals and allied products	34.4	39.3	50.1	53.5	55.3	59.6	60.0	59.1	64.1	68.8
Petroleum and coal products	23.8	25.1	26.7	25.5	24.4	24.0	25.0	24.9	26.3	26.6
Rubber and miscellaneous plastic products	12.7	15.2	18.9	20.9	19.3	21.7	24.3	26.2	26.8	29.8

[1] Includes industries not shown separately.

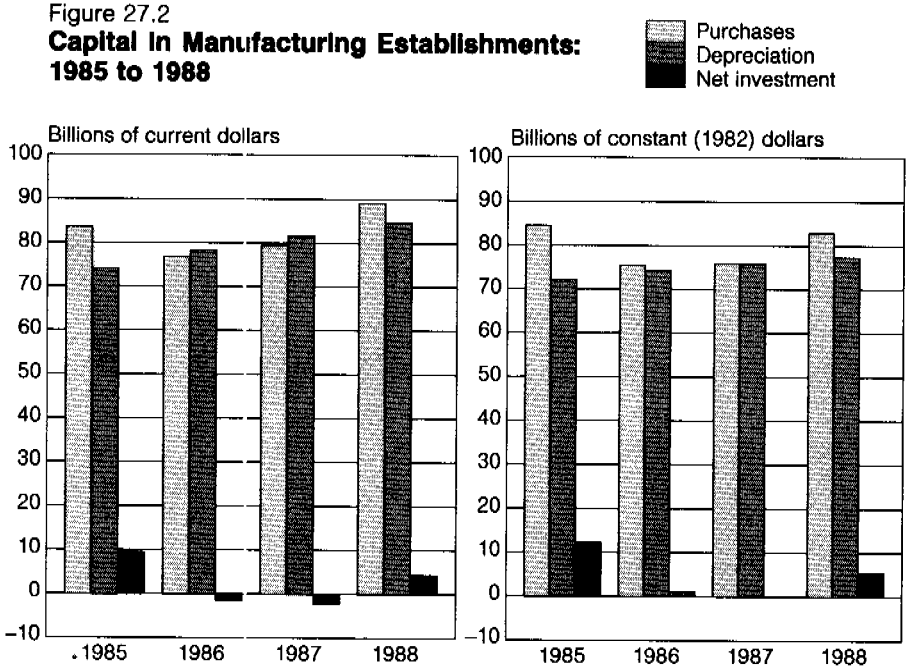
Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82,* and *Survey of Current Business,* July issues.

Figure 27.1
Summary of Manufactures: 1972 to 1987



Source: Chart prepared by U S. Bureau of the Census. For data, see table 1295.

Figure 27.2
Capital in Manufacturing Establishments: 1985 to 1988



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1301.

No. 1295. Manufactures—Summary: 1963 to 1987

[For establishment coverage, see text, section 27. Data based on Census of Manufactures, except as noted. For composition of regions, see fig. I, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series P 1–12]

ITEM	Unit	1963	1967	1972	1977	1980 [1]	1982	1984 [1]	1985 [1]	1986 [1]	1987
ALL ESTABLISHMENTS											
Number of establishments [2]	1,000	**312**	**311**	**321**	**360**	(NA)	**358**	(NA)	(NA)	(NA)	**369**
With 20 or more employees	1,000	102	110	114	119	(NA)	123	(NA)	(NA)	(NA)	126
Employee size-class:											
Establishments [3]	1,000	305	306	313	351	(NA)	348	(NA)	(NA)	(NA)	(NA)
Under 20	1,000	207	199	203	237	(NA)	230	(NA)	(NA)	(NA)	(NA)
20–99	1,000	70	74	76	78	(NA)	84	(NA)	(NA)	(NA)	(NA)
100–249	1,000	18	20	21	22	(NA)	21	(NA)	(NA)	(NA)	(NA)
250–999	1,000	10	11	11	12	(NA)	11	(NA)	(NA)	(NA)	(NA)
1,000 and over	1,000	3	3	3	2	(NA)	2	(NA)	(NA)	(NA)	(NA)
Form of organization:											
Corporate	1,000	176.2	153.9	233.2	284.2	(NA)	283.2	(NA)	(NA)	(NA)	(NA)
Noncorporate, total [4]	1,000	130.4	33.2	87.5	75.7	(NA)	74.0	(NA)	(NA)	(NA)	(NA)
Individual proprietorship	1,000	99.2	24.9	42.5	52.3	(NA)	45.6	(NA)	(NA)	(NA)	(NA)
Partnership	1,000	27.7	6.7	17.7	18.3	(NA)	15.0	(NA)	(NA)	(NA)	(NA)
Region:											
Northeast	Percent	29.8	29.1	26.3	23.7	24.2	23.7	(NA)	(NA)	(NA)	24.0
Midwest	Percent	35.4	35.0	34.9	34.4	31.1	29.8	(NA)	(NA)	(NA)	25.5
South	Percent	21.5	22.7	25.5	27.4	28.5	29.5	(NA)	(NA)	(NA)	28.3
West	Percent	13.3	13.0	13.4	14.5	16.2	17.0	(NA)	(NA)	(NA)	22.2
All employees, [5] **annual average** [6]	**Million**	**17.0**	**19.3**	**19.0**	**19.6**	**20.6**	**19.1**	**19.1**	**18.8**	**18.4**	**18.9**
Payroll, all employees	Bil. dol.	100	132	174	264	350	380	429	443	451	474
Payroll per employee	$1,000	5.9	6.8	9.2	13.5	17.0	19.9	24.0	23.6	24.5	25.1
Production workers, annual average	Million	12.2	14.0	13.5	13.7	13.9	12.4	12.6	12.2	11.8	12.3
Percent of all employees	Percent	71.8	72.2	71.1	69.9	67.3	64.9	70.4	64.9	64.1	65.1
Hours, production workers	Billion	24.5	27.8	26.7	26.7	26.7	23.5	24.6	23.7	23.2	24.4
Hours per worker	1,000	2.0	2.0	2.0	1.9	1.9	1.9	2.0	1.9	2.0	2.0
Wages, production workers	Bil. dol.	62	81	106	157	198	205	232	236	237	252
Percent of payroll for all employees	Percent	62.0	61.6	60.6	59.5	56.6	53.9	54.1	53.3	53.3	53.2
Wages per worker	$1,000	5.1	5.8	7.8	11.5	14.3	16.5	18.4	18.8	19.4	20.5
Wages per worker hour	Dollar	2.53	2.92	3.95	5.89	7.41	8.70	9.41	9.96	10.22	10.90
Value added by manufacture [7]	**Bil. dol.**	**192**	**262**	**354**	**585**	**774**	**824**	**984**	**1,000**	**1,035**	**1,167**
Per production worker	$1,000	15.7	18.8	26.2	42.7	55.7	66.5	78.2	82.2	88.0	95.2
Per production worker hour	Dollar	7.83	9.41	13.26	21.93	28.98	35.01	39.91	42.14	44.67	47.90
Per dollar of workers' wages	Dollar	2.90	3.22	3.36	3.72	3.91	4.02	4.24	4.24	4.38	4.64
Cost of materials	**Bil. dol.**	**230**	**299**	**407**	**782**	**1,094**	**1,130**	**1,288**	**1,276**	**1,217**	**1,321**
Value of shipments [8]	**Bil. dol.**	**421**	**557**	**757**	**1,359**	**1,853**	**1,960**	**2,254**	**2,280**	**2,260**	**2,480**
Per production worker	$1,000	34.4	39.9	55.9	99.2	133.3	158.1	179.2	187.3	192.1	202.3
End-of-year inventories	Bil. dol.	60	84	108	188	262	307	330	322	311	(NA)
Capital expenditures, new [9]	Bil. dol.	11.4	21.5	24.1	47.5	70.1	75.0	75.3	83.1	76.4	78.9
Ratios:											
Value added to shipments	Ratio	45.6	47.0	46.7	42.9	41.8	42.0	43.7	43.8	45.8	47.1
Inventories to shipments	Ratio	14.2	15.0	14.2	13.8	14.1	15.7	14.6	14.1	13.8	(NA)
Payroll to value added	Ratio	52.0	50.3	49.1	45.2	45.3	46.1	43.6	44.3	43.6	40.6
Gross book value of depreciable assets	Bil. dol.	158	218	301	439	574	692	772	821	(NA)	(NA)
Machinery and equipment	Bil. dol.	(NA)	157	218	328	434	527	592	632	(NA)	(NA)
Assets per employee	$1,000	9.3	11.3	16.4	22.4	27.8	36.2	40.4	43.7	(NA)	(NA)
MULTIUNIT COMPANIES											
Establishments	1,000	45.9	51.7	70.2	81.2	(NA)	81.7	(NA)	(NA)	(NA)	(NA)
Employees	Million	11.0	13.3	14.3	15.0	(NA)	14.3	(NA)	(NA)	(NA)	(NA)
Production workers	Million	8.1	9.8	9.8	10.1	(NA)	8.8	(NA)	(NA)	(NA)	(NA)
Payroll, all employees	Bil. dol.	68.2	93.8	138.8	214.2	(NA)	307.5	(NA)	(NA)	(NA)	(NA)
Wages, production workers	Bil. dol.	44.7	60.9	81.9	124.9	(NA)	159.1	(NA)	(NA)	(NA)	(NA)
Value added by manufacture	Bil. dol.	146.6	206.4	286.1	485.0	(NA)	678.4	(NA)	(NA)	(NA)	(NA)
Capital expenditures, new	Bil. dol.	8.9	18.6	20.0	41.0	(NA)	65.2	(NA)	(NA)	(NA)	(NA)
SINGLE UNIT COMPANIES [10]											
Establishments	1,000	260.8	254.0	250.5	278.7	(NA)	276.3	(NA)	(NA)	(NA)	(NA)
Employees	Million	5.2	5.2	4.8	4.6	(NA)	4.8	(NA)	(NA)	(NA)	(NA)
Payroll, all employees	Bil. dol.	25.1	28.5	35.4	49.8	(NA)	72.1	(NA)	(NA)	(NA)	(NA)
Value added by manufacture	Bil. dol.	45.5	55.5	67.9	100.1	(NA)	145.7	(NA)	(NA)	(NA)	(NA)

NA Not available. [1] Estimated data based on *Annual Survey of Manufactures;* see text, section 27. [2] Includes administrative and auxiliary units, except as noted. [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. [10] Beginning 1967, includes data obtained from Federal administrative records.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1963, 1967, 1972, 1977, 1982,* and *1987;* and *Annual Survey of Manufactures.*

No. 1296. Manufactures—Summary by Industry Group: 1982 and 1987

[Data based on various editions of the *Standard Industrial Classification Manual*, published by the Office of Management and Budget; see text, section 27. N.e.c.=Not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series P-58-67]

SIC [1] code	Industry group	1982					1987							
		Establishments (number)	All employees: Number [2] (1,000)	All employees: Payroll (mil. dol.)	Value added by manufacture [3] (mil. dol.)	Value of shipments (mil. dol.)	Establishments, total	All employees: Number (1,000)	All employees: Payroll: Amount (mil. dol.)	All employees: Payroll: Per employee ($1,000)	Production workers: Number (1,000)	Production workers: Wages (mil. dol.)	Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)
(X)	**All manufacturing establishments, incl. central administrative offices**	**358,061**	**19,094.1**	**379,626.5**	**824,117.7**	**1,960,205.8**	**368,817**	**18,933.6**	**474,082.9**	**25.0**	**12,259.5**	**251,533.0**	**1,166,554.9**	**2,480,236.2**
20	**Food and kindred products**	**22,130**	**1,487.7**	**26,087.5**	**88,419.1**	**280,529.3**	**20,624**	**1,448.3**	**30,232.6**	**20.9**	**1,029.5**	**18,894.8**	**122,072.6**	**330,115.0**
201	Meat products	3,623	317.7	4,992.7	11,002.3	67,602.2	3,267	339.5	5,674.1	16.7	283.9	4,253.0	13,740.4	76,530.1
202	Dairy products	2,724	139.9	2,553.1	8,359.8	38,771.3	2,366	141.3	3,215.7	22.8	87.8	1,818.7	11,908.9	44,822.0
203	Preserved fruits and vegetables	(NA)	(NA)	(NA)	(NA)	(NA)	1,912	208.3	3,773.4	18.1	172.9	2,767.5	17,272.1	36,178.8
204	Grain mill products	2,745	107.5	2,197.0	10,333.1	31,386.4	2,610	102.7	2,708.0	26.4	70.1	1,731.2	15,271.3	36,764.2
205	Bakery products	(NA)	(NA)	(NA)	(NA)	(NA)	2,850	217.0	4,760.9	21.9	127.9	2,549.2	15,251.7	23,694.7
206	Sugar and confectionery products	1,033	95.7	1,660.6	6,234.0	15,575.8	1,094	90.4	1,994.5	22.1	72.4	1,423.1	8,927.1	19,355.1
207	Fats and oils	724	38.7	774.3	2,785.4	16,751.8	595	30.4	713.8	23.5	20.4	437.5	3,245.5	16,095.4
208	Beverages	2,584	194.1	4,244.1	16,683.6	38,600.7	2,214	160.2	4,498.5	28.1	77.3	2,125.4	22,893.7	47,463.4
209	Miscellaneous foods and kindred products	3,941	158.0	2,299.8	10,017.2	23,959.0	3,716	158.4	2,893.9	18.3	116.8	1,789.2	13,762.0	29,191.4
21	**Tobacco products**	**163**	**57.9**	**1,323.5**	**8,964.8**	**16,061.4**	**138**	**44.7**	**1,485.9**	**33.2**	**32.7**	**992.5**	**14,260.5**	**20,761.0**
211	Cigarettes	14	41.5	1,093.7	8,098.3	12,126.8	11	32.0	1,232.9	38.5	23.6	841.7	12,967.3	17,367.0
212	Cigars	60	5.1	58.5	133.3	253.7	20	2.5	35.7	14.3	2.0	26.2	106.3	191.5
213	Chewing and smoking tobacco	29	3.1	51.6	420.5	665.4	29	3.3	77.2	23.4	2.2	46.2	791.9	1,114.3
214	Tobacco stemming and redrying	60	8.3	119.8	312.6	3,015.4	78	7.0	140.2	20.0	4.8	78.4	395.1	2,088.2
22	**Textile mill products**	**6,630**	**717.4**	**9,046.1**	**18,550.2**	**47,515.4**	**6,412**	**678.0**	**11,460.1**	**16.9**	**580.2**	**8,766.8**	**26,013.9**	**63,508.2**
221	Broadwoven fabric mills, cotton	269	76.9	964.6	1,637.5	3,972.0	301	72.5	1,263.2	17.4	65.1	1,074.8	2,608.6	5,518.1
222	Broadwoven fabric mills, manmade	523	140.8	1,815.2	3,486.6	8,191.2	441	88.9	1,608.5	18.1	77.6	1,282.5	3,647.7	8,136.9
223	Broadwoven fabric mills, wool	131	13.1	175.8	349.4	762.8	119	14.2	231.3	16.3	12.4	180.7	494.1	1,040.6
224	Narrow fabric mills	281	17.5	215.5	464.7	851.8	277	19.1	305.8	16.0	16.2	217.5	612.3	1,185.7
225	Knitting mills	(NA)	(NA)	(NA)	(NA)	(NA)	2,130	203.5	2,990.4	14.7	176.0	2,295.5	6,408.8	13,688.2
226	Textile finishing, except wool	753	58.1	834.0	1,590.3	4,971.9	971	57.5	1,057.6	18.4	46.7	754.3	2,363.7	7,167.2
227	Carpets and rugs	505	41.8	603.1	1,711.7	5,807.8	477	53.4	1,002.4	18.8	40.7	659.6	3,190.2	10,038.4
228	Yarn and thread mills	714	108.6	97.7	2,318.2	7,036.4	610	114.2	1,854.2	16.2	103.2	1,537.7	3,821.1	10,195.3
229	Miscellaneous textile goods	(NA)	(NA)	(NA)	(NA)	(NA)	1,086	54.6	1,146.7	21.0	42.4	764.2	2,867.4	6,538.0
23	**Apparel and other textile products**	**24,391**	**1,189.0**	**12,128.8**	**26,060.5**	**53,387.9**	**22,872**	**1,084.9**	**13,988.6**	**12.9**	**913.3**	**9,910.2**	**33,310.8**	**65,765.4**
231	Men's and boys' suits and coats	529	75.2	878.2	1,683.0	3,061.5	347	56.6	801.5	14.2	49.4	614.5	1,963.5	3,213.4
232	Men's and boys' furnishings	2,544	298.9	2,836.6	6,621.2	12,727.1	2,195	281.8	3,278.6	11.6	247.4	2,534.6	8,674.6	15,597.8
233	Women's and misses' outerwear	10,838	418.9	4,110.4	8,576.1	18,224.5	10,290	352.6	4,363.3	12.4	293.0	2,876.3	10,000.2	20,367.2
234	Women's and children's undergarments	755	81.6	783.1	1,721.5	3,322.7	557	66.9	835.0	12.5	55.5	580.0	2,070.7	3,799.8

See footnotes at end of table.

No. 1296. Manufactures—Summary by Industry Group: 1982 and 1987—Continued

[See headnote, p. 735]

SIC [1] code	INDUSTRY GROUP	1982					1987							
		Establishments (number)	All employees		Value added by manufacture [3] (mil. dol.)	Value of shipments (mil. dol.)	Establishments, total	All employees			Production workers		Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)
			Number [2] (1,000)	Payroll (mil. dol.)				Number (1,000)	Payroll		Number (1,000)	Wages (mil. dol.)		
									Amount (mil. dol.)	Per employee ($1,000)				
	Apparel, other textile products—Con.													
235	Hats, caps, and millinery	419	15.7	156.7	285.3	522.3	461	16.9	198.5	11.7	14.3	144.5	360.6	652.9
236	Girls' and children's outerwear	968	71.3	671.2	1,445.8	2,711.4	834	71.7	825.2	11.5	60.9	608.3	1,966.5	3,680.3
237	Fur goods	504	3.4	59.6	131.6	419.3	380	2.1	48.2	22.9	1.5	28.1	136.8	422.6
238	Miscellaneous apparel and accessories	1,223	50.0	512.5	1,097.5	2,118.2	986	41.0	523.4	12.8	33.0	343.1	1,168.5	2,279.6
239	*Miscellaneous fabricated textile products*	6,611	173.8	2,120.3	4,498.4	10,280.8	6,822	195.2	3,115.0	15.9	158.4	2,180.7	6,969.3	15,751.9
24	**Lumber and wood products** [4]	**32,984**	**576.4**	**8,444.5**	**15,376.6**	**42,934.9**	**33,982**	**698.8**	**12,706.6**	**18.2**	**581.1**	**9,516.5**	**28,590.9**	**69,607.9**
241	Logging	11,658	80.8	1,207.9	2,501.9	8,274.0	11,952	87.4	1,549.8	17.7	73.6	1,227.7	4,164.3	11,071.6
242	Sawmills and planing mills	7,403	157.7	2,305.9	3,747.9	11,132.4	6,696	178.9	3,265.7	18.3	156.0	2,649.4	7,634.6	19,070.0
243	Millwork, plywood, and structural members	6,545	165.3	2,596.1	4,460.4	11,682.8	7,930	240.6	4,669.2	19.4	196.8	3,429.9	9,806.3	22,532.9
244	Wood containers	2,250	35.8	390.9	703.0	1,634.9	2,216	37.1	481.3	12.9	31.2	342.6	873.5	2,067.9
245	Wood buildings and mobile homes	1,163	59.6	880.1	1,740.8	4,955.4	1,077	64.8	1,200.5	18.5	50.2	778.1	2,452.6	6,512.5
25	**Furniture and fixtures** [4]	**10,003**	**436.0**	**6,083.7**	**12,828.9**	**24,128.6**	**11,613**	**508.5**	**9,047.6**	**17.8**	**408.0**	**6,230.1**	**20,239.1**	**37,137.5**
251	Household furniture	5,475	263.0	3,161.7	6,455.0	12,775.6	5,606	283.7	4,449.7	15.7	240.3	3,282.8	9,480.7	18,541.6
253	Public building and related furniture	413	18.8	294.9	578.8	1,102.8	484	20.8	377.3	18.1	15.7	244.7	844.4	1,821.8
254	Partitions and fixtures	2,148	59.7	1,025.0	2,079.5	3,709.9	2,455	73.6	1,541.4	20.9	54.5	991.3	3,094.2	5,500.5
259	Miscellaneous furniture and fixtures	1,267	35.8	551.1	1,238.7	2,390.1	2,084	49.7	890.7	17.9	37.3	556.5	2,061.5	3,720.5
26	**Paper and allied products**	(NA)	(NA)	(NA)	(NA)	(NA)	**6,342**	**610.9**	**16,821.0**	**27.5**	**465.7**	**11,758.7**	**49,725.8**	**108,249.7**
261	Pulp mills	43	16.7	467.5	1,113.8	3,110.4	39	14.2	536.5	37.8	11.1	397.5	2,246.5	4,214.9
262	Paper mills	299	129.0	3,430.6	8,954.1	20,994.6	281	129.3	4,589.3	35.5	99.3	3,396.0	13,694.4	28,901.3
263	*Paperboard mills*	222	55.6	1,501.5	3,739.8	9,531.1	199	53.6	1,895.9	35.4	41.1	1,406.0	7,001.7	13,957.3
265	Paperboard containers and boxes	2,781	187.5	3,516.7	7,395.8	19,192.3	2,796	193.5	4,615.9	23.9	147.3	3,053.1	9,814.7	25,827.8
267	Miscellaneous converted paper products	3,006	213.3	3,960.6	12,014.1	26,700.7	3,027	220.3	5,183.4	23.5	166.9	3,506.1	16,968.5	35,348.4
27	**Printing and publishing**	**53,406**	**1,291.8**	**22,706.9**	**54,423.4**	**85,796.9**	**61,774**	**1,491.9**	**33,515.0**	**22.5**	**796.9**	**15,669.9**	**89,207.9**	**134,901.5**
271	Newspapers	8,846	401.5	6,554.7	15,275.3	21,276.3	9,079	434.6	9,037.1	20.8	148.4	2,985.6	24,300.0	31,828.6
272	Periodicals	3,328	94.0	1,986.1	6,910.9	11,478.0	4,017	111.1	3,158.1	28.4	18.4	372.2	11,802.1	17,614.9
273	Books	2,811	111.7	2,089.8	6,721.4	10,132.4	2,856	111.5	2,752.5	24.7	50.4	982.2	10,315.5	14,944.8
274	Miscellaneous publishing	2,057	45.3	705.9	1,958.2	2,871.3	2,376	68.9	1,482.6	21.5	24.1	364.6	5,514.2	7,241.9
275	Commercial printing	(NA)	(NA)	(NA)	(NA)	(NA)	36,103	553.6	12,294.1	22.2	401.5	7,890.5	25,025.1	44,772.6
276	Manifold business forms	810	49.5	934.0	2,490.7	5,058.7	853	53.2	1,276.4	24.0	37.2	822.1	3,882.8	7,350.4
277	Greeting cards	154	20.8	344.2	1,348.8	1,893.6	162	20.7	459.8	22.2	11.2	197.3	2,196.9	2,879.9
278	Blankbooks and bookbinding	1,487	61.2	903.1	1,963.5	2,802.9	1,545	68.5	1,260.9	18.4	53.9	853.5	2,918.4	4,072.3
279	Printing trade services	(NA)	(NA)	(NA)	(NA)	(NA)	4,783	69.7	1,793.5	25.7	51.9	1,201.8	3,252.9	4,195.9

See footnotes at end of table.

No. 1296. Manufactures—Summary by Industry Group: 1982 and 1987—Continued

[See headnote, p. 735]

SIC [1] code	INDUSTRY GROUP	1982					1987							
		Establishments (number)	All employees		Value added by manufacture [3] (mil. dol.)	Value of shipments (mil. dol.)	Establishments, total	All employees			Production workers		Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)
			Number [2] (1,000)	Payroll (mil. dol.)				Number (1,000)	Payroll		Number (1,000)	Wages (mil. dol.)		
									Amount (mil. dol.)	Per employee ($1,000)				
28	**Chemicals and allied products**	**11,901**	**872.6**	**20,835.7**	**77,314.8**	**170,736.9**	**12,109**	**816.4**	**25,065.3**	**30.7**	**464.3**	**12,327.1**	**121,241.8**	**230,089.8**
281	Industrial inorganic chemicals	1,365	107.7	2,795.2	8,828.5	17,280.1	1,405	94.3	3,121.8	33.1	50.6	1,526.3	11,154.0	19,678.0
282	Plastics materials and synthetics	606	141.0	3,450.6	9,401.5	28,428.1	680	123.4	4,034.8	32.7	84.4	2,460.7	17,882.0	41,024.5
283	Drugs	1,261	165.7	3,965.5	16,980.6	24,695.4	1,356	172.2	5,312.3	30.8	79.7	1,895.5	28,176.4	39,288.1
284	Soap, cleaners, and toilet goods	2,379	127.3	2,581.1	15,281.8	26,031.4	2,399	119.8	3,096.1	25.8	72.6	1,576.2	21,620.4	34,711.5
285	Paints and allied products	1,441	54.1	1,157.7	3,952.5	9,162.1	1,431	55.4	1,493.5	26.9	28.3	625.4	6,238.3	12,722.8
286	Industrial organic chemicals	969	143.6	4,004.7	12,340.5	38,156.8	961	125.4	4,532.5	36.1	73.2	2,433.6	21,542.3	51,460.1
287	Agricultural chemicals	1,127	50.9	1,155.8	5,096.9	14,652.5	973	40.1	1,169.8	29.1	24.4	623.4	6,379.2	14,350.8
289	Miscellaneous chemical products	2,733	82.3	1,725.1	5,432.6	12,330.4	2,904	85.7	2,304.5	26.9	51.1	1,186.1	8,249.0	16,854.1
29	**Petroleum and coal products**	**2,322**	**151.6**	**4,338.7**	**22,068.5**	**208,918.6**	**2,254**	**115.9**	**3,999.9**	**34.5**	**76.5**	**2,462.8**	**18,398.9**	**130,683.5**
291	Petroleum refining	(NA)	(NA)	(NA)	(NA)	(NA)	331	74.8	2,853.0	38.1	50.2	1,801.8	14,128.2	118,507.0
295	Asphalt paving and roofing materials	1,307	29.5	629.1	1,742.8	5,948.1	1,367	28.1	785.0	27.9	19.7	504.0	2,882.9	7,745.1
299	Miscellaneous petroleum and coal products	582	13.8	311.7	1,078.9	3,614.1	556	13.0	361.8	27.8	6.7	157.0	1,387.7	4,431.5
30	**Rubber and misc. plastics products**	**13,449**	**681.7**	**11,596.8**	**27,218.9**	**55,415.8**	**14,515**	**827.9**	**17,503.4**	**21.1**	**640.9**	**11,644.7**	**44,293.1**	**86,273.3**
301	Tires and inner tubes	164	70.3	1,733.9	4,660.4	9,340.1	164	65.5	2,071.2	31.6	52.7	1,597.1	5,561.3	10,430.7
302	Rubber and plastics footwear	65	17.6	196.5	360.1	706.2	66	11.0	154.4	14.0	9.2	104.5	324.7	584.8
305	Hose and belting and gaskets and packing	635	55.2	998.5	2,025.4	3,611.5	693	53.5	1,193.2	22.3	37.7	739.1	2,756.1	4,782.0
306	Fabricated rubber products, n.e.c.	(NA)	(NA)	(NA)	(NA)	(NA)	1,573	101.0	2,184.6	21.6	76.3	1,412.1	4,680.2	8,984.9
308	Miscellaneous plastics products, n.e.c	(NA)	(NA)	(NA)	(NA)	(NA)	12,019	596.9	11,899.8	19.9	464.9	7,791.8	30,970.8	61,491.0
31	**Leather and leather products**	**2,735**	**199.8**	**2,218.5**	**4,772.9**	**9,719.2**	**2,193**	**127.0**	**1,798.3**	**14.1**	**107.4**	**1,281.7**	**4,274.9**	**8,908.5**
311	Leather tanning and finishing	384	19.8	310.6	579.8	1,753.0	344	14.6	291.3	19.9	12.1	211.6	745.2	2,221.0
313	Footwear cut stock	161	6.8	80.8	154.7	367.8	128	5.1	70.2	4.8	4.3	50.1	142.4	331.7
314	Footwear, except rubber	751	121.4	1,250.0	2,808.9	5,269.3	479	70.6	905.1	12.8	61.7	685.3	2,106.1	3,987.4
315	Leather gloves and mittens	96	3.9	36.6	72.5	177.6	77	3.1	33.6	10.8	2.7	26.1	74.5	184.8
316	Luggage	292	16.0	193.8	432.8	789.0	241	10.5	179.6	17.1	7.6	95.5	467.0	860.0
317	Handbags and personal leather goods	636	25.3	271.1	564.0	1,035.1	529	16.3	225.3	13.8	13.3	151.0	516.6	919.7
319	Leather goods, n.e.c	415	7.0	75.6	160.2	327.4	395	7.0	93.2	13.3	5.7	62.2	221.3	403.3

See footnotes at end of table.

No. 1296. Manufactures—Summary by Industry Group: 1982 and 1987—Continued

[See headnote, p. 735]

SIC [1] code	Industry group	1982					1987							
		Establishments (number)	All employees		Value added by manufacture [3] (mil. dol.)	Value of shipments (mil. dol.)	Establishments, total	All employees			Production workers		Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)
			Number [2] (1,000)	Payroll (mil. dol.)				Number (1,000)	Payroll					
									Amount (mil. dol.)	Per employee ($1,000)	Number (1,000)	Wages (mil. dol.)		
32	**Stone, clay, and glass products**	**16,545**	**531.5**	**10,096.7**	**22,985.7**	**45,180.6**	**16,166**	**521.1**	**12,274.9**	**23.6**	**402.7**	**8,742.5**	**33,076.4**	**60,918.0**
321	Flat glass	69	15.3	413.8	848.5	1,665.5	81	14.5	504.6	34.8	11.7	396.1	1,617.7	2,533.2
322	Glass and glassware, pressed or blown	459	96.6	2,032.4	4,482.2	7,940.8	522	76.5	1,938.6	25.3	65.0	1,558.8	4,943.7	8,114.5
323	Products of purchased glass	1,337	41.3	696.3	1,483.7	2,976.5	1,432	51.5	1,067.0	20.7	39.8	725.8	2,846.6	5,458.6
324	Cement, hydraulic	237	24.6	636.4	1,815.7	3,542.0	215	19.2	601.7	31.3	14.5	425.3	2,284.0	4,321.3
325	Structural clay products	628	29.9	490.5	989.2	1,868.1	598	34.6	687.8	19.9	27.4	489.4	1,732.8	2,903.3
326	Pottery and related products	910	37.4	598.0	1,173.5	1,761.9	1,006	36.7	731.6	19.9	29.5	531.6	1,637.5	2,326.8
327	Concrete, gypsum, and plaster products	9,933	167.2	2,994.6	6,603.3	14,946.7	9,814	203.0	4,619.8	22.8	151.6	3,185.0	11,761.7	24,353.7
328	Cut stone and stone products	711	10.5	155.9	295.2	555.4	745	12.5	242.6	19.4	10.0	173.4	449.3	838.7
329	Miscellaneous nonmetallic mineral products	(NA)	(NA)	(NA)	(NA)	(NA)	1,753	72.6	1,881.3	25.9	53.3	1,257.3	5,803.0	10,067.8
33	**Primary metal industries [4]**	**7,061**	**854.1**	**20,602.7**	**33,291.4**	**104,666.8**	**6,771**	**700.7**	**19,781.5**	**28.2**	**541.0**	**14,162.7**	**46,471.2**	**120,169.9**
331	Blast furnace and basic steel products	1,068	365.7	266.7	14,721.5	46,720.2	1,241	255.5	8,259.0	32.3	197.5	6,124.2	21,081.2	52,327.1
332	Iron and steel foundries	1,438	157.4	3,113.1	5,361.5	9,641.5	1,231	128.6	3,382.7	26.3	103.4	2,518.0	6,186.9	10,550.6
333	Primary nonferrous metals	161	43.9	1,306.6	2,310.9	11,320.8	169	31.3	987.4	31.5	23.8	691.8	2,975.2	10,793.8
334	Secondary nonferrous metals	458	19.2	402.2	619.8	4,851.9	397	12.5	310.9	24.9	9.1	185.8	947.2	4,425.1
335	Nonferrous rolling and drawing	1,022	166.7	3,636.2	6,821.7	25,462.9	1,066	161.5	4,267.5	26.4	120.8	2,898.4	10,140.2	32,870.6
336	Nonferrous foundries (castings)	(NA)	(NA)	(NA)	(NA)	(NA)	1,687	79.2	1,796.3	22.6	64.1	1,296.6	3,382.3	6,282.1
34	**Fabricated metal products**	**35,560**	**1,459.7**	**28,282.6**	**58,927.6**	**119,444.0**	**36,105**	**1,466.6**	**35,219.8**	**24.0**	**1,083.7**	**22,914.8**	**75,502.9**	**148,263.2**
341	Metal cans and shipping containers	566	58.9	1,533.0	4,443.3	12,171.5	538	48.2	1,529.5	31.7	39.2	1,195.5	4,224.1	12,123.5
342	Cutlery, handtools, and hardware	2,238	140.9	2,584.5	6,040.7	10,081.7	2,327	145.7	3,397.9	23.3	111.0	2,282.7	8,054.8	13,510.2
343	Plumbing and heating, except electric	1,177	47.9	820.7	2,022.6	4,003.3	828	44.0	974.9	22.1	31.4	587.3	2,779.7	5,159.5
344	Fabricated structural metal products	12,681	421.9	7,897.2	15,466.3	34,904.3	12,579	409.6	9,092.9	22.2	292.6	5,558.0	18,797.6	40,716.8
345	Screw machine products, bolts, etc	2,690	94.0	1,726.9	3,309.2	5,834.4	2,569	94.6	2,268.0	23.9	72.7	1,551.6	4,762.4	7,879.6
346	Metal forgings and stampings	4,019	236.3	5,110.2	9,709.8	20,057.1	4,062	255.4	7,243.3	28.4	202.6	5,318.6	13,223.0	28,398.5
347	Metal services, n.e.c	5,070	96.9	1,518.2	2,896.5	5,124.8	5,251	114.9	2,211.3	19.2	89.9	1,472.2	4,730.3	7,981.7
348	Ordnance and accessories, n.e.c	349	79.4	1,779.7	3,441.5	4,992.9	374	87.5	2,457.3	28.1	54.2	1,258.3	5,342.5	7,636.7
349	Miscellaneous fabricated metal products	6,770	283.6	5,312.1	11,597.6	22,274.1	7,577	266.7	6,044.8	22.7	190.0	3,690.6	13,588.5	24,856.6
35	**Industrial machinery and equipment**	**52,912**	**2,188.7**	**46,910.7**	**102,269.8**	**187,895.7**	**52,135**	**1,853.1**	**50,749.9**	**27.4**	**1,145.9**	**26,077.7**	**119,214.4**	**220,097.5**
351	Engines and turbines	341	112.0	2,849.7	6,069.3	13,039.7	356	86.4	2,886.8	33.4	56.5	1,707.8	7,018.4	14,426.8
352	Farm and garden machinery	2,073	113.8	2,385.6	6,146.3	13,018.2	1,804	82.3	1,923.5	23.4	58.4	1,188.9	5,638.3	11,507.8
353	Construction and related machinery	3,952	325.8	7,332.3	16,453.3	32,037.5	3,467	187.7	5,260.1	28.0	116.4	2,875.7	11,330.6	24,573.4
354	Metalworking machinery	(NA)	(NA)	(NA)	(NA)	(NA)	11,470	269.7	7,295.3	27.0	189.4	4,636.1	13,766.2	22,069.4
355	Special industry machinery	(NA)	(NA)	(NA)	(NA)	(NA)	4,550	169.9	4,596.0	27.1	96.6	2,181.5	9,698.6	17,211.3
356	General industrial machinery	(NA)	(NA)	(NA)	(NA)	(NA)	3,929	238.0	6,130.2	25.8	149.8	3,343.6	13,756.6	24,010.9
357	Computer and office equipment	(NA)	(NA)	(NA)	(NA)	(NA)	2,134	333.8	10,865.1	32.5	123.2	2,599.9	33,166.9	62,432.2
358	Refrigeration and service machinery	1,937	171.7	3,343.6	8,120.7	16,449.9	2,129	192.3	4,796.3	24.9	134.0	2,901.1	11,621.5	23,824.4
359	Industrial machinery, n.e.c	(NA)	(NA)	(NA)	(NA)	(NA)	22,296	292.9	6,996.7	23.9	221.5	4,643.1	13,217.5	20,041.4

See footnotes at end of table.

No. 1296. Manufactures—Summary by Industry Group: 1982 and 1987—Continued

[See headnote, p. 735]

SIC [1] code	INDUSTRY GROUP	1982					1987							
		Establishments (number)	All employees		Value added by manufacture [3] (mil. dol.)	Value of shipments (mil. dol.)	Establishments, total	All employees			Production workers		Value added by manufacture (mil. dol.)	Value of shipments (mil. dol.)
			Number [2] (1,000)	Payroll (mil. dol.)				Number (1,000)	Payroll					
									Amount (mil. dol.)	Per employee ($1,000)	Number (1,000)	Wages (mil. dol.)		
36	**Electronic and other electric equipment**	(NA)	(NA)	(NA)	(NA)	(NA)	**15,962**	**1,569.7**	**38,736.7**	**24.7**	**1,003.8**	**19,757.8**	**95,959.1**	**172,136.7**
361	Electric distribution equipment	(NA)	(NA)	(NA)	(NA)	(NA)	766	76.6	1,777.7	23.2	53.7	1,064.8	4,577.0	8,267.7
362	Electrical industrial apparatus	(NA)	(NA)	(NA)	(NA)	(NA)	2,213	166.7	3,920.9	23.5	110.5	2,135.4	9,020.4	15,541.7
363	Household appliances	(NA)	(NA)	(NA)	(NA)	(NA)	460	116.7	2,633.9	22.5	92.2	1,923.3	7,444.0	16,488.0
364	Electric lighting and wiring equipment	1,993	159.4	2,718.2	6,619.0	12,047.8	1,986	169.7	3,775.4	22.2	125.6	2,438.5	10,313.6	17,995.9
365	Household audio and video equipment	(NA)	(NA)	(NA)	(NA)	(NA)	854	44.2	844.1	19.1	33.8	522.8	3,003.5	7,771.2
366	Communications equipment	(NA)	(NA)	(NA)	(NA)	(NA)	1,437	256.3	7,398.4	28.9	126.6	2,797.2	19,804.4	33,820.3
367	Electronic components and accessories	(NA)	(NA)	(NA)	(NA)	(NA)	5,911	550.9	13,686.7	24.8	332.3	6,158.5	30,635.2	50,312.9
369	Misc. electrical equipment and supplies	(NA)	(NA)	(NA)	(NA)	(NA)	2,315	188.4	4,699.6	24.9	129.0	2,717.3	11,160.0	21,939.1
37	**Transportation equipment**	**9,443**	**1,595.9**	**40,811.9**	**84,932.3**	**201,346.1**	**10,500**	**1,819.7**	**58,966.3**	**32.4**	**1,206.3**	**34,755.1**	**135,782.7**	**332,470.3**
371	Motor vehicles and equipment	3,867	615.6	15,393.4	34,293.5	112,269.6	4,422	748.2	23,864.1	31.9	602.4	18,268.8	65,778.2	204,678.5
372	Aircraft and parts	1,471	538.6	14,717.5	29,402.2	52,026.7	1,618	603.0	20,834.0	34.5	329.3	9,801.2	40,188.8	78,150.6
373	Ship and boat building and repairing	2,566	205.0	4,325.8	7,508.6	13,326.4	2,766	177.4	4,265.6	24.0	137.6	2,933.1	7,656.7	13,856.9
374	Railroad equipment	200	34.5	790.4	1,491.8	3,456.6	173	21.0	617.5	29.4	13.7	344.2	1,285.2	2,414.6
375	Motorcycles, bicycles, and parts	273	13.0	224.9	402.5	1,341.1	246	7.4	158.3	21.4	5.8	110.9	367.8	1,062.6
376	Guided missiles, space vehicles, parts	105	146.3	4,481.1	9,856.6	14,398.0	156	213.3	8,100.9	37.9	81.8	2,606.5	18,152.0	26,245.4
379	Miscellaneous transportation equipment	961	42.9	878.8	1,977.0	4,527.7	1,119	49.3	1,125.9	22.8	35.8	690.6	2,354.0	6,061.7
38	**Instruments and related products**	(NA)	(NA)	(NA)	(NA)	(NA)	**10,326**	**996.0**	**29,089.0**	**29.2**	**509.3**	**11,655.0**	**71,487.2**	**108,269.9**
381	Search and navigation equipment	(NA)	(NA)	(NA)	(NA)	(NA)	1,137	372.3	12,446.3	33.4	159.9	4,493.6	24,647.7	36,392.1
382	Measuring and controlling devices	(NA)	(NA)	(NA)	(NA)	(NA)	4,240	292.2	8,016.2	27.4	153.6	3,267.0	17,325.6	26,906.7
384	Medical instruments and supplies	2,973	189.2	3,558.5	9,712.2	15,133.3	3,443	206.3	5,046.7	24.4	125.1	2,287.4	14,864.9	22,866.7
385	Ophthalmic goods	410	25.8	408.7	874.2	1,273.0	494	23.9	450.5	18.8	15.9	231.3	1,094.0	1,578.4
386	Photographic equipment and supplies	795	119.3	3,193.1	10,859.5	17,037.5	791	88.6	2,900.4	32.7	45.0	1,232.8	13,059.2	19,505.0
387	Watches, clocks, watchcases and parts	237	16.8	248.1	483.5	1,187.6	221	12.7	228.8	18.0	9.8	142.9	495.8	1,021.0
39	**Miscellaneous manufacturing industries**	**15,871**	**382.6**	**5,646.9**	**14,059.1**	**26,891.4**	**16,544**	**371.7**	**6,847.3**	**18.4**	**270.1**	**4,011.9**	**17,431.6**	**31,909.6**
391	Jewelry, silverware, and plated ware	2,882	50.2	770.1	1,784.4	4,378.5	2,978	50.2	957.1	19.1	35.9	545.0	2,486.9	5,694.1
393	Musical instruments	452	17.8	257.8	494.8	915.9	425	12.5	223.2	17.8	9.9	149.5	518.1	837.8
394	Toys and sporting goods	2,570	98.9	1,389.3	4,610.1	8,255.6	2,711	88.2	1,505.2	17.1	66.4	913.9	4,868.2	8,802.5
395	Pens, pencils, office, and art supplies	1,026	32.2	484.8	1,262.8	2,371.7	1,013	28.7	539.2	18.8	20.7	318.8	1,431.4	2,532.5
396	Costume jewelry and notions	(NA)	(NA)	(NA)	(NA)	(NA)	1,020	31.2	487.2	15.6	22.0	276.6	1,155.0	1,955.1
399	Miscellaneous manufactures	(NA)	(NA)	(NA)	(NA)	(NA)	8,397	160.9	3,135.5	19.5	115.2	1,808.1	6,972.0	12,087.6
(X)	**Administrative and auxiliary [5]**	**9,676**	**1,276.0**	**38,220.4**	-	-	**9,480**	**1,181.9**	**44,793.2**	**37.9**	-	-	-	-

- Represents zero. NA Not available. X Not applicable. [1] Standard Industrial Classification Code; see text, section 27. [2] "All employees" represents the average of "production workers" plus all other employees for the payroll period ended nearest the 15th of March. [3] See footnote 6, table 1295. [4] Includes other industries, not shown separately. [5] Manufacturing concerns often reported separately for central offices or auxiliaries which serve the manufacturing establishment of a company, rather than the general public. Separate reports were obtained from such units if at a different location or if they serviced more than one establishment.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1987 Preliminary Summary*, MC87-SUM-1(P).

No. 1297. Manufactures Summary,

[Sum of State totals may not add to U.S. total

	Division and State	1982							1986		
		Establishments, total [1]	All employees [2]		Production workers [2]		Value added by manufacture [4] (mil. dol.)	Value of shipments [5] (mil. dol.)	All employees [2]		Value added by manufacture [4] (mil. dol.)
			Number [3] (1,000)	Payroll (mil. dol.)	Number [3] (1,000)	Wages (mil. dol.)			Number [3] (1,000)	Payroll (mil. dol.)	
1	**U.S.**	**358,061**	**19,094**	**379,627**	**12,401**	**204,787**	**824,118**	**1,960,206**	**18,371**	**450,806**	**1,035,821**
2	**N.E.**	**25,659**	**1,445**	**27,603**	**916**	**13,874**	**56,213**	**105,938**	**1,367**	**33,937**	**72,032**
3	ME	2,009	110	1,775	86	1,237	4,038	8,649	101	2,076	4,777
4	NH	1,981	107	1,792	75	1,055	4,004	7,636	102	2,312	5,249
5	VT	1,104	47	863	30	434	2,037	3,730	43	1,025	2,209
6	MA	11,017	643	12,353	397	6,001	25,968	48,204	615	15,511	33,945
7	RI	2,855	114	1,760	83	1,052	3,793	7,652	108	2,121	4,439
8	CT	6,693	424	9,060	245	4,095	16,373	30,067	398	10,892	21,413
9	**M.A.**	**65,443**	**3,353**	**68,316**	**2,048**	**33,333**	**139,387**	**294,829**	**2,990**	**75,019**	**163,215**
10	NY	32,651	1,419	29,156	836	13,270	62,907	121,469	1,268	32,638	73,259
11	NJ	15,126	754	15,845	440	7,207	31,656	70,420	680	17,931	37,867
12	PA	17,666	1,180	23,315	772	12,856	44,824	102,940	1,042	24,450	52,089
13	**E.N.C.**	**67,378**	**4,337**	**92,400**	**2,664**	**52,063**	**184,757**	**440,702**	**4,080**	**111,796**	**245,282**
14	OH	16,960	1,102	24,740	695	13,816	49,641	112,278	1,087	29,803	66,167
15	IN	7,960	585	12,559	406	7,821	25,747	63,332	575	14,772	34,976
16	IL	18,618	1,069	22,681	670	11,931	47,705	112,929	989	25,830	58,621
17	MI	15,158	884	22,223	564	12,505	39,118	99,715	943	29,582	56,879
18	WI	8,682	697	10,197	329	5,990	22,546	52,448	486	11,809	28,639
19	**W.N.C.**	**23,940**	**1,272**	**25,430**	**803**	**13,652**	**60,413**	**155,543**	**1,272**	**30,934**	**76,296**
20	MN	6,775	350	7,423	201	3,428	15,367	35,321	357	9,526	19,759
21	IA	3,598	213	4,403	140	2,649	12,078	31,397	193	4,506	13,219
22	MO	7,069	406	8,013	256	4,199	18,334	41,459	407	9,916	24,045
23	ND	587	15	246	10	141	652	2,465	14	273	715
24	SD	748	25	398	18	262	1,100	3,005	26	487	1,496
25	NE	1,928	92	1,624	64	1,015	4,445	15,143	88	1,822	5,363
26	KS	3,235	171	3,323	113	1,958	8,437	26,753	187	4,404	11,699
27	**S.A.**	**48,855**	**2,930**	**48,588**	**2,081**	**28,351**	**112,850**	**256,625**	**2,970**	**61,695**	**155,957**
28	DE	632	68	1,743	32	557	2,467	8,383	64	2,025	3,020
29	MD	3,883	234	4,859	146	2,551	10,134	21,282	218	5,655	12,371
30	DC	514	17	394	6	125	929	1,537	16	489	1,302
31	VA	5,568	391	6,649	287	4,192	17,256	36,803	407	8,670	24,010
32	WV	1,662	96	2,007	65	1,233	4,049	9,869	86	2,081	4,775
33	NC	10,133	799	11,717	605	7,297	28,492	64,176	803	14,979	42,162
34	SC	4,206	368	5,540	279	3,576	12,219	27,836	353	6,775	16,472
35	GA	8,534	503	7,906	369	4,864	19,192	48,056	543	10,941	28,764
36	FL	13,723	454	7,773	292	3,956	18,112	38,683	480	10,080	23,081
37	**E.S.C.**	**18,573**	**1,241**	**20,132**	**924**	**13,053**	**49,514**	**119,698**	**1,239**	**24,699**	**64,068**
38	KY	3,502	247	4,639	174	2,874	11,820	29,639	238	5,433	15,909
39	TN	6,417	462	7,378	338	4,603	17,823	40,777	467	9,275	23,625
40	AL	5,528	330	5,234	254	3,598	12,046	29,794	329	6,432	15,560
41	MS	3,126	202	2,881	158	1,978	7,825	19,488	205	3,559	8,974
42	**W.S.C.**	**31,876**	**1,648**	**32,573**	**1,082**	**17,961**	**81,011**	**271,595**	**1,417**	**33,860**	**86,880**
43	AR	3,313	190	2,824	149	1,932	7,755	19,747	193	3,563	9,164
44	LA	4,107	202	4,304	142	2,731	11,755	57,058	158	3,951	12,641
45	OK	4,168	197	4,010	121	2,065	8,143	23,116	159	3,902	9,002
46	TX	20,288	1,059	21,435	670	11,233	53,358	171,674	907	22,444	56,073
47	**Mt.**	**14,854**	**556**	**10,863**	**342**	**5,569**	**23,134**	**56,997**	**569**	**13,702**	**31,875**
48	MT	1,090	20	379	15	265	714	3,668	20	412	907
49	ID	1,404	48	865	34	545	2,077	5,370	49	1,043	2,611
50	WY	511	10	183	7	115	408	2,558	7	150	370
51	CO	4,406	192	3,983	110	1,877	8,057	17,963	181	4,901	10,397
52	NM	1,223	33	521	22	297	1,398	3,815	34	649	1,932
53	AZ	3,407	150	3,037	87	1,423	6,162	12,907	165	4,012	9,509
54	UT	1,962	83	1,539	54	837	3,455	8,960	92	2,083	4,993
55	NV	851	20	356	13	210	863	1,756	21	452	1,156
56	**Pac.**	**61,483**	**2,518**	**53,724**	**1,543**	**26,934**	**116,846**	**258,280**	**2,472**	**65,168**	**140,219**
57	WA	6,788	291	6,681	178	3,624	12,596	34,665	279	7,848	15,668
58	OR	5,659	185	3,783	130	2,334	7,973	17,897	187	4,369	9,908
59	CA	47,625	2,005	42,630	1,209	20,561	94,388	199,695	1,974	52,296	112,968
60	AK	445	13	270	10	197	769	2,580	9	231	501
61	HI	966	24	360	16	218	1,120	3,443	23	424	1,174

X Not applicable. [1] Includes central administrative offices and auxiliary units. [2] Includes employment and payroll at administrative offices and auxiliary units. [3] "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.

BY STATE: 1982 TO 1987

because U.S. and State figures were independently derived]

1987										
Establishments, total [1]	All employees [2]			Production workers [2]		Value added by manufacture [4] (mil. dol.)	Value of shipments [5] (mil. dol.)	Capital expenditures	Cost of materials	
	Number [3] (1,000)	Payroll								
		Amount (mil. dol.)	Per employee (dol.)	Number [3] (1,000)	Wages (mil. dol.)					
368,817	**18,934**	**474,083**	**25,039**	**12,260**	**251,533**	**1,166,555**	**2,480,236**	**78,907**	**1,321,328**	1
26,397	**1,345**	**34,278**	**25,486**	**822**	**16,525**	**78,650**	**137,260**	**4,938**	**59,384**	2
2,167	102	2,188	21,451	78	1,460	5,266	10,649	539	5,422	3
2,336	108	2,517	23,306	72	1,430	7,818	12,246	340	4,348	4
1,263	49	1,140	23,265	31	552	2,544	4,748	336	2,196	5
11,023	589	15,152	25,725	349	7,024	35,797	62,986	2,160	27,550	6
2,878	111	2,286	20,594	76	1,248	4,882	9,310	269	4,449	7
6,730	386	10,995	28,484	216	4,811	22,343	37,321	1,294	15,419	8
61,898	**2,990**	**76,854**	**25,704**	**1,799**	**36,475**	**179,512**	**345,960**	**10,068**	**167,922**	9
29,607	1,270	33,300	26,220	723	14,356	79,282	144,823	4,285	66,049	10
14,437	685	18,309	26,728	394	8,391	42,484	82,526	2,343	40,397	11
17,854	1,035	25,245	24,391	682	13,728	57,746	118,611	3,440	61,476	12
69,675	**4,179**	**116,000**	**27,758**	**2,735**	**65,761**	**267,031**	**591,488**	**19,490**	**325,559**	13
17,514	1,097	30,683	27,969	713	17,487	71,669	158,531	4,835	87,253	14
8,631	602	15,739	26,144	428	9,891	39,537	84,147	3,371	44,824	15
18,373	985	26,087	26,484	609	13,392	63,664	132,579	4,469	69,087	16
15,996	982	30,743	31,307	636	17,393	60,733	146,794	4,792	86,286	17
9,161	513	12,748	24,850	349	7,598	31,428	69,437	2,023	38,109	18
24,518	**1,319**	**32,784**	**24,855**	**834**	**17,264**	**84,828**	**196,052**	**5,655**	**111,779**	19
7,110	374	10,120	27,059	215	4,510	23,272	47,767	1,752	24,644	20
3,566	206	4,972	24,136	140	3,043	14,502	35,450	833	21,008	21
7,314	418	10,380	24,833	265	5,414	25,925	59,933	1,609	33,891	22
626	15	310	20,667	10	180	985	2,582	47	1,618	23
761	27	492	18,222	20	313	1,476	3,859	79	2,407	24
1,872	90	1,914	21,267	63	1,198	5,762	15,485	316	9,792	25
3,269	189	4,596	24,317	121	2,606	12,906	30,976	1,019	18,419	26
53,454	**3,106**	**66,673**	**21,466**	**2,181**	**38,353**	**180,443**	**374,586**	**12,072**	**195,702**	27
676	68	2,136	31,412	34	783	3,933	10,853	270	6,986	28
4,250	231	5,951	25,762	140	2,990	14,073	28,074	876	14,023	29
488	17	494	29,059	5	120	1,557	2,129	44	584	30
6,136	427	9,632	22,557	306	5,733	27,136	52,201	1,560	25,479	31
1,620	83	2,104	25,349	59	1,311	5,424	11,568	359	6,003	32
10,982	843	16,221	19,242	638	10,222	47,322	95,513	2,990	48,640	33
4,541	369	7,388	20,022	281	4,762	19,119	41,219	1,594	22,301	34
9,165	568	11,789	20,755	409	7,195	33,913	75,993	2,473	42,356	35
15,596	500	10,958	21,916	309	5,237	27,966	57,036	1,906	29,330	36
19,713	**1,307**	**26,572**	**20,330**	**986**	**17,427**	**74,271**	**164,701**	**5,778**	**90,923**	37
3,688	252	5,877	23,321	185	3,765	18,110	41,846	1,750	23,999	38
6,868	485	9,855	20,320	359	6,284	27,079	57,665	1,906	30,707	39
5,845	350	6,995	19,986	270	4,754	18,591	40,737	1,478	22,188	40
3,312	220	3,845	17,477	172	2,624	10,491	24,453	644	14,029	41
31,309	**1,433**	**34,725**	**24,232**	**944**	**18,964**	**100,781**	**263,720**	**7,280**	**163,607**	42
3,394	206	3,821	18,549	162	2,654	10,570	25,406	881	15,035	43
3,806	160	4,134	25,838	111	2,585	16,454	50,714	1,420	34,270	44
3,742	155	3,816	24,619	106	2,211	9,836	24,182	543	14,423	45
20,367	912	22,954	25,169	565	11,514	63,921	163,418	4,436	99,879	46
16,474	**597**	**14,694**	**24,613**	**361**	**7,261**	**35,221**	**73,279**	**2,753**	**37,946**	47
1,240	20	428	21,400	15	298	1,116	3,505	98	2,397	48
1,496	53	1,142	21,547	38	694	3,055	7,009	234	3,962	49
501	8	182	22,750	5	118	486	2,054	67	1,583	50
4,701	183	4,959	27,098	103	2,278	11,876	23,141	805	11,241	51
1,322	35	714	20,400	24	433	1,719	4,225	196	2,501	52
4,152	184	4,671	25,386	105	2,136	11,182	20,588	839	9,566	53
2,088	90	2,078	23,089	55	1,005	4,859	10,297	404	5,501	54
974	24	520	21,667	16	299	928	2,460	110	1,195	55
65,379	**2,658**	**71,504**	**26,901**	**1,599**	**33,508**	**165,820**	**333,191**	**10,874**	**168,506**	56
7,636	310	8,845	28,532	185	4,266	18,025	46,439	1,245	28,652	57
6,355	204	4,774	23,402	145	2,954	11,561	25,384	736	13,914	58
49,941	2,111	57,185	27,089	1,246	25,844	133,996	255,226	8,724	122,014	59
427	11	264	24,000	8	189	827	2,685	69	1,874	60
1,020	22	436	19,818	15	255	1,411	3,457	100	2,052	61

[4] For defintion, see footnote 6, table 1295. [5] See footnote 7, table 1295.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1982* and *1987* and *Annual Survey of Manufactures.*

No. 1298. Changes in Manufacturing Employment and Shipments, by Industry: 1972–1986

[See table 1296 for employment and shipment data]

SIC code [1]	Industry	Employment (1,000)	Industry shipments (bil. dol.) Current dollars	Industry shipments (bil. dol.) Constant (1982) dollars
20	Food and kindred products	−160	193.5	58.1
21	Tobacco manufactures	−20	13.2	1.7
22	Textile mill products	−309	27.3	2.8
23	Apparel	−352	30.1	5.2
24	Lumber and wood products	−72	34.3	5.4
25	Furniture and fixtures	5	21.8	6.0
26	Paper and allied products	−30	69.6	23.5
27	Printing and publishing	320	88.4	31.9
28	Chemical/chemical products	−34	139.7	38.8
29	Petroleum/coal products	−15	96.2	29.9
30	Rubber/plastic products	123	52.5	22.0
31	Leather and products	144	2.0	−4.9
32	Stone, clay, and glass	−109	35.7	–
33	Primary metals	−453	47.2	−41.8
34	Fabricated metal	−75	86.2	8.0
35	Machinery, ex. electric	35	142.7	119.9
36	Electric/electronic equip	280	142.9	96.7
37	Transportation equipment	50	219.1	70.8
38	Instruments	132	46.4	28.0
39	Misc. mfg. industries	120	15.0	−3.5

SIC code [1]	Industry	Jobs (1,000)
	Largest gains:	
3662	Radio/TV comm. equip	236
3079	Misc. plastics products	201
3573	Computing equipment	170
2752	Commercial printing, lithograph	153
3679	Elec. components, n.e.c.[2]	117
3599	Mach., ex. electric, n.e.c.[2]	86
3728	Aircraft equipment, n.e.c.[2]	84
3674	Semiconductor devices	75
2711	Newspapers	72
3761	Missiles/space vehicles	56
	Largest losses:	
3312	Steel mills	−277
2335	Women's/misses' dresses	−100
2311	Men's/boys' suits/coats	−65
2211	Weaving mills, cotton	−63
3711	Vehicles and car bodies	−59
3321	Gray iron foundries	−57
2026	Fluid milk	−55
3523	Farm machinery and equip	−48
3144	Women's footwear	−47
3531	Construction machinery	−46

– Represents zero. [1] Standard Industrial Classification code; see text, section 27. [2] N.e.c. means not elsewhere classified.

Source: U.S. International Trade Administration, *U.S. Industrial Outlook*, annual.

No. 1299. Production Workers, in Manufacturing Industries—Average Hourly Earnings, by State: 1980 to 1988

[In dollars]

Division and state	1980	1983	1984	1985	1986	1987	1988
U.S	**7.27**	**8.83**	**9.19**	**9.54**	**9.73**	**9.91**	**10.18**
N.E.:							
ME	6.00	7.61	8.05	8.40	8.65	8.77	9.31
NH	5.87	7.42	7.86	8.39	8.77	9.29	9.73
VT	6.14	7.66	8.03	8.41	8.83	9.12	9.45
MA	6.51	8.01	8.50	9.00	9.24	9.77	10.26
RI	5.59	6.92	7.33	7.59	7.90	8.20	8.55
CT	7.08	8.76	9.22	9.57	10.07	10.46	10.81
M.A.:							
NY	7.18	8.84	9.22	9.67	9.92	10.09	10.43
NJ	7.31	9.11	9.50	9.86	10.12	10.40	10.88
PA	7.59	8.95	9.28	9.57	9.74	9.98	10.27
E.N.C.:							
OH	8.57	10.56	10.96	11.38	11.56	11.73	12.00
IN	8.49	10.10	10.45	10.71	10.81	11.06	11.38
IL	8.02	9.70	10.08	10.37	10.67	10.85	11.03
MI	9.52	11.62	12.18	12.64	12.80	12.97	13.43
WI	8.03	9.78	10.03	10.26	10.35	10.55	10.64
W.N.C.:							
MN	7.61	9.56	9.75	10.05	10.20	10.37	10.56
IA	8.67	10.09	10.24	10.32	10.35	10.62	10.64
MO	7.26	8.89	9.31	9.57	9.83	10.00	10.17
ND	6.56	7.73	7.86	8.05	8.19	8.43	8.37
SD	6.50	7.31	7.14	7.43	7.75	7.92	8.03
NE	7.38	8.76	8.93	9.02	9.26	9.33	9.49
KS	7.37	9.23	9.38	9.45	9.76	9.97	10.19
S.A.:							
DE	7.58	9.19	9.28	9.86	10.05	10.67	10.48
MD	7.61	9.02	9.45	9.73	9.91	10.11	10.47
DC [1]	8.46	9.75	10.10	10.48	10.40	10.73	11.25
S.A.—Con.							
VA	6.22	7.79	8.10	8.51	8.83	9.14	9.35
WV	8.08	9.74	9.93	10.24	10.38	10.55	10.72
NC	5.37	6.68	7.01	7.29	7.54	7.84	8.13
SC	5.59	7.03	7.28	7.61	7.92	8.10	8.30
GA	5.77	7.13	7.58	8.10	8.35	8.49	8.68
FL	5.98	7.33	7.62	7.86	8.02	8.16	8.40
E.S.C.:							
KY	7.34	8.79	9.28	9.53	9.86	10.02	10.15
TN	6.08	7.49	7.93	8.29	8.58	8.78	8.96
AL	6.49	7.58	7.97	8.48	8.64	8.76	9.01
MS	5.44	6.70	6.95	7.22	7.46	7.59	7.83
W.S.C.:							
AR	5.71	7.05	7.31	7.57	7.76	7.88	8.07
LA	7.74	9.79	10.06	10.43	10.60	10.90	10.91
OK	7.36	9.21	9.64	9.86	9.80	10.14	10.35
TX	7.15	8.88	9.04	9.41	9.65	9.85	9.97
Mt.:							
MT	8.78	10.44	10.76	10.95	10.94	10.61	10.63
ID	7.55	8.98	9.34	9.41	9.66	9.75	9.93
WY	7.01	8.73	9.14	9.64	9.68	9.75	9.88
CO	7.63	8.97	9.24	9.52	9.82	10.05	10.26
NM	5.79	7.60	7.97	8.41	8.75	8.74	8.78
AZ	7.29	8.99	9.09	9.48	9.68	9.97	9.89
UT	7.02	8.69	8.92	9.64	9.98	9.96	9.93
NV	7.72	9.02	9.12	9.15	9.36	9.76	10.08
Pac.:							
WA	(NA)	11.42	11.57	11.63	11.65	11.73	11.83
OR	8.65	10.25	10.44	10.50	10.57	10.56	10.64
CA	7.70	9.52	9.77	10.12	10.37	(NA)	(NA)
AK	10.22	12.33	12.25	12.19	11.62	11.79	12.28
HI	6.83	8.23	8.35	8.65	8.86	9.30	9.79

NA Not available. [1] Represents Washington, DC metropolitan area.

Source: U.S. Bureau of Labor Satistics, *Employment and Earnings*, monthly. Compiled from data supplied by cooperating State agencies.

No. 1300. Finances of Manufacturing Corporations: 1970 to 1988

[**In billions of dollars.** Beginning 1986, data exclude estimates for corporations with less than $250,000 in assets at time of sample selection. Prior period includes estimates for corporations in this size category. See table 906 for individual industry data]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Net sales	709	1,065	1,496	1,742	1,897	2,145	2,039	2,114	2,335	2,331	2,221	2,378	2,601
Net operating profit	50	77	122	135	129	144	105	125	159	138	125	159	190
Net profit:													
Before taxes	48	80	133	154	145	158	108	133	166	137	129	173	217
After taxes	29	49	81	99	92	101	71	86	108	88	83	116	155
Cash dividends	15	20	29	32	36	40	41	42	45	46	46	50	57
Net income retained in business	14	29	52	66	58	61	30	44	63	42	37	66	98

Source: Through 1981, U.S. Federal Trade Commission; thereafter, U.S. Bureau of the Census. *Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations,* first quarter report of year subsequent to reported year.

No. 1301. Capital in Manufacturing Establishments: 1975 to 1988

[**In billions of dollars, except percent.** Minus sign (−) indicates decline. Data refer to privately owned manufacturing establishments and are based on the capital expenditures data from the Census of Manufactures, the Annual Survey of Manufactures, and the inventory investment component of GNP. For details, see source]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS					
	1975	1980	1985	1986	1987	1988	1975	1980	1985	1986	1987	1988
Purchases of equipment and structures	38.5	75.3	83.7	76.9	79.5	89.2	65.1	86.8	84.6	75.5	76.0	83.0
Percent equipment	79.3	80.4	80.0	80.6	80.6	81.6	78.7	80.4	82.4	82.9	83.1	83.9
Depreciation (straight line) [1]	28.7	53.1	74.2	78.4	81.7	84.7	49.8	62.0	72.2	74.3	75.9	77.4
Percent equipment	76.7	78.7	78.6	79.0	78.9	79.0	76.6	78.9	80.4	80.8	81.1	81.4
Net investment [2]	9.7	22.2	9.5	−1.5	−2.2	4.4	15.3	24.9	12.4	1.1	.2	5.6
Net stock, end of year [1]	529.1	944.6	1,145.1	1,174.1	1,213.0	1,275.0	879.1	1,034.0	1,078.6	1,076.0	1,080.8	1,096.4
Equipment and structures	351.3	633.9	811.7	845.8	872.7	907.9	597.2	707.2	758.0	760.5	762.0	769.1
Percent equipment	64.4	67.0	66.8	67.4	67.3	67.9	64.0	67.4	68.7	69.0	69.3	69.7
Inventories	177.8	310.7	333.4	328.3	340.3	367.1	281.9	326.8	320.6	315.5	318.8	327.3

[1] Depreciation and net stock estimates are derived using the perpetual inventory method and the straight-line depreciation formula. [2] Represents the difference between purchases and depreciation.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929–82, Fixed Reproducible Tangible Wealth in the United States, 1925–85,* and *Survey of Current Business,* July 1987, August 1987, July 1989, and August 1989.

No. 1302. Manufacturers' Shipments, Inventories, and Orders: 1950 to 1988

[**In billions of dollars, except ratio.** See also *Historical Statistics, Colonial Times to 1970,* series P 74–92]

YEAR	Shipments, total	Inventories, total (Dec. 31) [1]	Ratio of inventories to shipments [2]	New orders, total	Unfilled orders, total (Dec. 31)	YEAR	Shipments, total	Inventories, total (Dec. 31) [1]	Ratio of inventories to shipments [2]	New orders, total	Unfilled orders, total (Dec. 31)
1950	224	32	1.41	242	41	1970	634	101	1.91	625	106
1951	261	39	1.78	287	67	1971	671	102	1.76	672	107
1952	270	42	1.71	279	76	1972	756	108	1.58	770	120
1953	298	44	1.90	283	60	1973	875	124	1.63	913	158
1954	280	42	1.71	268	48	1974	1,018	158	1.86	1,047	187
1955	318	45	1.63	330	60	1975	1,039	160	1.77	1,023	171
1956	333	51	1.74	340	68	1976	1,186	175	1.66	1,194	180
1957	345	52	1.90	331	53	1977	1,358	188	1.58	1,381	202
1958	327	50	1.75	324	47	1978	1,523	209	1.55	1,580	259
1959	363	53	1.68	369	52	1979	1,727	239	1.61	1,771	303
1960	371	54	1.79	363	45	1980	1,853	262	1.61	1,876	326
1961	371	55	1.67	373	47	1981	2,018	280	1.74	2,015	323
1962	400	58	1.76	401	48	1982	1,960	307	1.91	1,947	310
1963	421	60	1.66	426	53	1983	2,055	308	1.82	2,089	345
1964	448	63	1.62	460	65	1984	2,254	330	1.78	2,277	368
1965	492	68	1.58	505	79	1985	2,280	322	1.72	2,291	379
1966	538	78	1.70	557	97	1986	2,260	311	1.64	2,264	382
1967	558	84	1.71	565	104	1987	2,390	326	1.60	2,424	416
1968	603	90	1.76	608	110	1988	2,612	348	1.53	2,660	464
1969	642	98	1.81	647	115						

[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: 1982–1988,* series M3–1(88).

No. 1303. Value of Manufactures Shipments and Inventories—Selected Industries: 1980 to 1988

[In billions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series P 74-79]

SIC [1] code	INDUSTRY	1980	1982	1983	1984	1985	1986	1987	1988
(x)	**Shipments, total**	**1,852.7**	**1,960.2**	**2,054.9**	**2,254.4**	**2,280.2**	**2,260.3**	**2,390.0**	**2,611.6**
(x)	**Durable goods industries** [2]	**930.6**	**952.2**	**1,019.5**	**1,159.5**	**1,188.2**	**1,199.9**	**1,263.5**	**1,388.2**
32	Stone, clay, and glass products	46.1	45.2	48.7	53.4	55.1	57.3	62.1	64.0
33	Primary metals	133.9	104.7	108.5	119.1	110.5	105.6	117.1	142.2
34	Fabricated metal products	116.2	119.4	122.1	135.9	139.6	138.0	135.0	144.1
35	Machinery, exc. electrical [2]	180.7	187.9	179.0	210.4	215.2	208.5	216.6	247.2
351	Engines and turbines	13.7	13.0	12.2	15.5	14.9	14.1	14.4	16.1
353	Construction mining and material handling equipment	33.6	32.0	24.8	27.1	27.7	25.9	25.8	29.9
357	Office and computing machines	32.4	43.0	48.2	59.7	62.2	58.8	61.2	67.9
36	Electrical machinery [2]	128.6	147.9	159.2	187.6	193.4	196.2	210.7	227.1
361-2	Elec. transmission and distribution	21.3	21.9	21.5	24.7	24.7	24.6	25.9	22.8
363	Household appliances	12.9	12.6	14.5	16.3	16.2	16.6	18.0	18.1
365	Radio and TV	8.5	7.8	8.9	9.9	11.4	11.9	11.5	11.7
366	Communication equipment	36.0	46.4	49.9	56.7	65.4	67.4	70.8	74.5
367	Electronic components	27.6	34.5	37.2	48.0	42.9	42.0	47.1	54.7
37	Transportation equipment [2]	186.5	201.3	244.1	281.2	301.4	313.8	323.0	351.9
371	Motor vehicles and parts	104.6	112.3	147.3	179.3	188.5	191.6	197.0	219.3
372, 6	Aircraft, missiles, and parts	58.5	66.4	74.8	78.8	90.8	101.0	103.7	107.6
38	Instruments and related products [2]	44.1	51.8	53.6	59.4	61.0	61.9	66.8	72.5
381-4	Scientific and engineering equipment	25.6	32.3	33.8	38.3	40.6	40.8	44.7	48.9
386	Photographic goods	15.9	17.0	17.4	18.7	18.1	18.6	19.8	21.5
(x)	**Nondurable goods industries** [2]	**922.1**	**1,008.0**	**1,035.4**	**1,095.0**	**1,092.0**	**1,060.5**	**1,126.6**	**1,223.4**
20	Food and kindred products [2]	256.2	280.5	287.1	300.0	301.6	308.5	325.0	356.8
208	Beverages	33.0	38.8	40.2	41.2	43.2	45.6	44.9	47.8
21	Tobacco products	12.2	16.1	16.3	17.4	18.5	19.1	19.9	22.2
22	Textile mill products	47.3	47.5	53.4	55.5	53.3	55.3	57.5	59.8
26	Paper and allied products [2]	72.8	79.9	84.6	94.8	93.4	97.9	110.3	124.2
261-3, 6	Paper, pulp, paperboard mill products	31.8	34.0	36.1	41.4	39.2	41.0	47.0	55.2
265	Paperboard containers	17.2	19.2	20.5	22.6	22.7	23.1	26.8	30.5
28	Chemicals and allied products [2]	162.5	170.7	183.2	198.2	197.3	197.1	212.7	240.5
281	Industrial inorganic chemicals	57.3	53.2	56.6	61.5	59.5	54.1	59.5	67.8
283-4	Drugs, soaps, toiletries	41.9	50.7	54.4	57.5	60.9	65.8	67.1	73.1
29	Petroleum and coal products	198.7	208.9	192.6	189.0	179.1	124.9	124.5	124.2
30	Rubber and plastics products	47.3	55.4	60.3	69.5	71.3	73.4	80.5	90.8
(x)	**Inventories, total (Dec. 31)**	**261.7**	**307.2**	**308.0**	**329.6**	**322.4**	**311.1**	**325.7**	**348.5**
(x)	**Durable goods industries** [2]	**172.2**	**197.0**	**196.6**	**214.5**	**209.9**	**204.2**	**212.3**	**229.0**
32	Stone, clay, and glass products	5.8	6.7	6.9	7.1	7.0	7.0	7.1	7.4
33	Primary metals	23.1	23.9	22.0	21.9	19.5	17.6	18.0	20.2
34	Fabricated metal products	19.2	21.1	21.6	22.6	21.9	21.4	22.4	23.1
35	Machinery, exc. electrical [2]	40.3	47.2	43.9	47.4	44.6	41.2	41.1	45.8
351	Engines and turbines	2.6	3.3	2.9	3.0	2.6	2.5	2.5	2.8
353	Construction mining and material handling equipment	9.2	11.9	9.9	9.1	7.7	6.8	6.5	7.6
357	Office and computing machines	8.4	10.0	10.5	13.2	11.9	10.4	10.5	11.8
36	Electrical machinery [2]	25.4	30.0	31.4	37.6	37.6	37.5	38.4	39.7
361-2	Elec. transmission and distribution	4.1	4.9	4.7	5.3	5.0	4.8	4.8	5.1
363	Household appliances	1.8	2.3	2.4	2.7	2.5	2.6	2.7	2.7
365	Radio and TV	1.3	1.1	1.1	1.4	1.3	1.4	1.3	1.4
366	Communication equipment	8.8	10.8	11.6	14.7	15.6	15.8	16.1	15.6
367	Electronic components	5.4	6.4	6.8	8.0	7.6	7.2	7.7	8.7
37	Transportation equipment [2]	35.3	42.3	43.5	49.5	50.9	50.9	55.9	61.7
371	Motor vehicles and parts	9.6	8.5	10.1	11.6	11.7	11.1	11.4	11.8
372, 6	Aircraft, missiles, and parts	21.7	29.7	29.8	34.4	35.9	36.4	40.8	45.9
38	Instruments and related products [2]	8.8	10.9	11.2	12.2	12.4	12.2	12.3	13.7
381-4	Scientific and engineering equipment	6.0	7.7	7.9	8.9	9.1	9.2	9.2	10.1
386	Photographic goods	2.2	2.6	2.8	2.7	2.7	2.5	2.6	2.9
(x)	**Nondurable goods industries** [2]	**89.5**	**110.2**	**111.4**	**115.1**	**112.5**	**106.9**	**113.4**	**119.4**
20	Food and kindred products [2]	22.4	23.6	24.1	24.4	24.0	24.0	25.2	29.6
208	Beverages	3.8	4.4	4.3	4.4	4.6	4.8	4.5	4.5
21	Tobacco products	3.9	7.2	7.2	6.9	6.2	5.9	5.9	5.9
22	Textile mill products	6.5	6.6	7.3	7.5	7.0	6.9	7.2	7.3
26	Paper and allied products [2]	7.7	8.9	9.2	10.1	9.9	10.2	11.1	11.9
261-3, 6	Paper, pulp, paperboard mill products	2.9	3.5	3.4	3.8	3.8	3.7	3.9	4.3
265	Paperboard containers	1.9	2.3	2.5	2.7	2.5	2.6	2.9	3.2
28	Chemicals and allied products [2]	19.6	23.8	24.4	25.5	25.1	24.2	24.8	27.3
281	Industrial inorganic chemicals	6.5	7.9	7.7	8.0	7.5	6.6	6.6	7.2
283-4	Drugs, soaps, toiletries	5.9	6.7	7.0	7.5	7.7	8.1	8.7	9.3
29	Petroleum and coal products	9.9	17.2	15.1	14.3	13.9	9.2	9.9	8.8
30	Rubber and plastics products	6.0	7.2	7.4	8.2	8.4	8.3	9.0	10.1

X Not applicable. [1] Standard Industrial Classification. [2] Includes industries not shown separately.

Source: U.S. Bureau of the Census, *Current Industrial Reports, Manufactures' Shipments, Inventories, and Orders: 1982-1988*, series M3-1.86 M3-1(88).

No. 1304. Industrial Production Indexes, by Industry: 1970 to 1988

[1977 = 100. Based on 1977 *Standard Industrial Classification Manual;* see text, section 6. See also *Historical Statistics, Colonial Times to 1970,* series P 13 and P 18-39]

SIC [1] code	MAJOR INDUSTRY GROUP	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
(x)	**Industrial production**	**79**	**85**	**111**	**109**	**111**	**103**	**109**	**121**	**124**	**125**	**134**	**137**
(x)	**Manufacturing**	**77**	**83**	**112**	**100**	**111**	**102**	**110**	**123**	**126**	**129**	**135**	**143**
(x)	**Durable goods**	**78**	**83**	**114**	**109**	**111**	**100**	**108**	**124**	**127**	**128**	**133**	**142**
24	Lumber and products	81	81	102	93	90	83	100	109	113	124	130	137
25	Furniture and fixtures	75	80	112	109	110	105	118	134	140	144	153	162
32	Clay, glass, and stone products	76	83	111	102	99	89	99	113	116	118	119	123
33	Primary metals	95	88	109	90	95	66	73	82	81	75	81	89
34	Fabricated metal products	82	83	109	102	102	87	89	103	107	108	111	121
35	Nonelectrical machinery	73	85	123	123	130	116	118	142	145	145	153	171
36	Electrical machinery	69	77	126	130	134	128	144	171	168	166	172	181
37	Transportation equipment	75	81	108	97	95	88	99	112	121	128	129	132
38	Instruments	60	81	118	122	126	125	123	137	139	140	144	154
(x)	**Nondurable goods**	**76**	**85**	**108**	**107**	**110**	**106**	**114**	**122**	**125**	**130**	**137**	**144**
20	Food	82	90	107	111	114	115	120	127	130	134	138	143
21	Tobacco products	92	100	105	106	109	105	101	100	100	97	104	105
22	Textile mill products	81	85	104	101	98	89	101	104	103	109	116	116
26	Paper and products	81	85	111	111	112	109	120	127	128	137	144	150
27	Printing and publishing	82	84	113	115	119	120	130	147	154	161	172	184
28	Chemicals and products	67	83	111	106	113	104	114	122	127	132	140	152
29	Petroleum products	80	87	102	94	89	84	84	87	87	93	94	96
30	Rubber and plastics products	58	73	115	108	116	110	124	144	147	151	164	174
31	Leather and products	117	102	95	93	93	82	82	77	69	61	60	60
(x)	**Mining**	**99**	**97**	**106**	**112**	**118**	**109**	**103**	**111**	**109**	**100**	**101**	**103**
(x)	**Utilities**	**81**	**94**	**106**	**107**	**107**	**105**	**105**	**111**	**112**	**109**	**110**	**114**

X Not applicable. [1] Standard Industrial Classifications.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin,* monthly.

No. 1305. Index of Manufacturing Capacity: 1950 to 1989

[1977 output = 100. Annual figures are averages of quarterly data. Capacity represents estimated quantity of output, relative to output in 1967, 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 manufacturing	Primary processing	Advanced processing			All manufacturing	Primary processing	Advanced processing
1950	40	83	89	80	1979	130	85	87	84
1960	60	80	80	81	1980	134	79	78	80
1965	73	90	91	89	1981	139	78	78	78
1970	97	79	81	78	1982	143	70	68	72
1971	101	77	80	76	1983	146	74	74	74
1972	104	83	86	81	1984	150	81	81	80
1973	108	87	91	85	1985	154	80	81	80
1974	112	83	85	82	1986	158	80	82	79
1975	116	72	72	73	1987	161	81	85	79
1976	119	77	79	77	1988	165	84	87	82
1977	123	81	83	81	1989: 1st qtr	168	84	87	83
1978	126	84	86	83	2d qtr	169	84	86	83

Source: Board of Governors of the Federal Reserve System, *Capacity Utilization in Manufacturing, Mining, Utilities, and Industrial Materials,* G.3., monthly. (Based on data from Federal Reserve Board, U.S. Dept. of Commerce, U.S. Bureau of Labor Statistics, and McGraw-Hill Information Systems Company, New York, NY; and other sources.)

No. 1306. Large Manufacturing Companies—Adequacy of Capital Facilities: 1970 to 1988

[**Percent distribution.** As of **July.** Number of companies weighted by company assets. Based on replies to the question, "In view of the current rate of order bookings and customer inquiries, are your plant-and-equipment facilities now: Inadequate, Sufficient, or More than adequate?," as part of a quarterly survey conducted among the 1,000 largest manufacturing companies as listed by total assets]

YEAR	Inadequate	Sufficient	More than adequate	YEAR	Inadequate	Sufficient	More than adequate
1970	28	60	12	1981	9	51	40
1973	45	53	2	1982	8	45	47
1974	57	40	3	1983	6	48	46
1975	19	43	38	1984	8	55	37
1976	18	65	17	1985	10	52	38
1977	20	66	14	1986	8	55	37
1978	20	62	18	1987	8	71	21
1979	20	69	11	1988	12	74	14
1980	12	57	31				

Source: The Conference Board, New York, NY, *Quarterly Survey of Capital Investment and Supply Conditions in Manufacturing* (copyright).

No. 1307. Large Manufacturing Companies—Capital Appropriations and Expenditures, by Industry: 1980 to 1988

[**In millions of dollars.** Based on reports submitted by companies responding to The Conference Board's *Quarterly Survey of Capital Appropriations.* This survey is conducted among the 1,000 largest manufacturing companies as listed by total assets. **Appropriations:** Authorizations by management to spend funds for new plant and equipment; **expenditures:** Cost of new plant and equipment]

INDUSTRY	APPROPRIATIONS					EXPENDITURES				
	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988
Total	**103,579**	**108,855**	**85,677**	**119,168**	**157,195**	**87,007**	**99,358**	**93,626**	**103,935**	**132,448**
Food and beverages	6,650	8,139	8,117	10,180	20,977	6,017	6,535	7,192	9,357	16,069
Paper and allied products	3,515	3,200	4,845	7,308	14,608	3,839	3,951	4,519	5,407	7,535
Chemicals and allied products	12,160	11,528	11,391	14,272	17,009	10,906	10,610	11,765	11,624	15,717
Petroleum and coal products	33,597	25,823	13,045	15,841	15,647	22,044	21,866	14,836	14,298	14,461
Primary iron and steel	2,890	1,943	1,918	2,693	3,926	3,525	2,551	1,773	1,629	2,490
Electrical machinery and equipment	6,519	8,284	9,288	22,297	30,902	6,183	9,185	9,499	18,698	27,616
Machinery, except electrical	8,891	11,446	7,400	8,689	7,100	9,301	10,222	6,801	6,608	6,977
Motor vehicles and equipment	7,012	11,849	6,274	6,584	8,732	5,558	10,275	12,363	9,104	9,559
Other transportation equipment	3,633	5,835	5,471	6,220	6,076	3,744	5,163	6,127	5,822	5,702
Instruments and photo equipment	3,153	4,008	3,517	3,913	4,257	2,873	3,786	3,408	3,536	4,815
Rubber products	873	4,744	1,519	1,608	2,325	803	3,439	2,717	1,361	2,385
Other manufacturing	14,686	12,056	12,892	19,563	25,640	12,214	11,775	12,626	16,491	19,122

Source: The Conference Board, New York, NY, *Quarterly Survey of Capital Appropriations.* (Copyright.)

No. 1308. U.S. Share of World Exports of Manufactures: 1980 to 1988

[World exports=exports from 15 major trading countries: United States, Austria, Belgium-Luxembourg, Canada, Denmark, France, West Germany, Italy, Japan, Netherlands, Norway, Sweden, Switzerland, and United Kingdom. Percents are calculated from the values of exports of the five commodity groups from each of the 15 countries. Percentage shares are based on dollar values calculated at current exchange rates. Details are reported according to Revision 2 of the United Nations Standard International Trade Classification (SITC)]

PRODUCT CATEGORY	TOTAL (bil. dol.)						PERCENT OF WORLD EXPORTS					
	1980	1984	1985	1986	1987	1988	1980	1984	1985	1986	1987	1988
Total [1]	**147.2**	**148.2**	**150.7**	**155.1**	**179.4**	**225.5**	**16.8**	**17.3**	**16.7**	**14.1**	**13.9**	**15.1**
Machinery	57.1	63.0	62.7	64.0	73.0	94.6	21.4	22.8	21.4	18.3	17.2	18.9
Transport equipment	28.9	30.0	35.2	35.4	40.6	47.8	18.3	17.3	18.7	15.7	15.5	16.6
Chemicals	20.8	22.6	21.5	22.4	26.7	32.7	17.9	19.5	17.9	15.5	15.3	16.0
Basic manufactures [2]	23.3	16.4	15.0	15.2	18.0	23.8	10.1	8.7	7.9	6.8	6.9	7.8
Misc. articles [3]	17.0	16.2	16.3	18.1	21.1	26.7	16.0	15.6	14.6	11.8	12.4	13.6

[1] Represents manufactures exports. Excludes mineral fuel products, processed food, fats, oils, firearms of war, and ammunition. [2] Includes semimanufactures of various materials, such as metals, fibers, wood, glass, leather, rubber, and certain finished products of metal. [3] Includes mainly nondurable consumer goods and professional and scientific instruments.

Source: U.S. Dept. of Commerce, International Trade Administration, Office of Trade and Investment Analysis, *Business America,* biweekly; and *Market Share Reports,* annual; and unpublished data.

No. 1309. Foreign Direct Investment Position in the U.S. for Manufacturing: 1980 and 1988

[**In millions of dollars.** Minus sign (−) indicates a negative position]

AREA OR COUNTRY	TOTAL [1]		FOOD PRODUCTS		CHEMICALS AND ALLIED PRODUCTS		PRIMARY AND FABRICATED METALS		MACHINERY	
	1980	1988	1980	1988	1980	1988	1980	1988	1980	1988
All countries [2]	**32,993**	**121,434**	**4,896**	**16,437**	**10,439**	**34,146**	**3,576**	**12,541**	**6,988**	**19,281**
Canada	5,227	9,391	(D)	531	116	623	801	3,414	1,173	2,346
Europe [2]	21,953	91,932	2,088	14,916	8,163	31,832	2,194	5,324	4,463	13,874
Belgium	388	989	(Z)	(D)	185	594	157	(D)	6	−67
France	2,291	9,908	111	455	633	4,549	555	852	61	592
Italy	50	107	(D)	(D)	(D)	−15	5	(D)	14	−59
Luxembourg	85	346	(D)	(D)	-	-	(D)	(D)	2	4
Netherlands	4,777	17,153	225	5,852	2,002	4,964	170	921	1,094	1,972
United Kingdom	6,159	37,021	1,098	5,204	2,301	10,534	524	1,688	1,097	5,370
Sweden	994	3,618	1	−2	67	421	148	270	613	2,348
Switzerland	3,116	8,072	586	(D)	1,154	3,142	264	(D)	681	1,123
West Germany	3,875	13,268	43	633	1,815	7,537	333	457	832	2,483
Japan	1,033	12,222	98	302	224	1,137	78	2,323	318	2,542
Australia, New Zealand, and South Africa	87	2,279	4	208	5	−103	44	803	−2	10
Latin America	4,571	4,221	101	60	1,929	539	412	276	1,027	404
Middle East	83	281	(D)	1	1	2	(D)	(D)	(Z)	(D)
Other Africa, Asia and Pacific	38	1,109	(D)	418	(Z)	114	(D)	(D)	8	(D)

- Represents zero. D Withheld to avoid disclosure of data of individual companies. Z Less than $500,000.
[1] Includes other manufacturing, not shown separately. [2] Includes other countries, not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business,* October 1984 and August 1989 issues.

No. 1310. Employment Related to Manufactured Exports, by Industry: 1977 to 1986

[Total employment related to manufactured exports is the sum of employment directly calculated for the plants shipping the exported product, the supplying industries and service organizations and the central administrative offices and auxiliaries. For manufacturing industries, employment is limited to paid employees in manufacturing plants, while for nonmanufacturing it includes an estimate for working proprietors and partners]

Industry	1977			1980			1985			1986		
	Civilian employment (1,000)	Employment related to manufactured exports		Civilian employment (1,000)	Employment related to manufactured exports		Civilian employment (1,000)	Employment related to manufactured exports		Civilian employment (1,000)	Employment related to manufactured exports	
		Number (1,000)	Percent of civilian employment		Number (1,000)	Percent of civilian employment		Number (1,000)	Percent of civilian employment		Number (1,000)	Percent of civilian employment
U.S.	**89,369**	**3,258**	**3.6**	**100,260**	**4,808**	**4.8**	**110,136**	**4,413**	**4.0**	**111,874**	**4,576**	**4.1**
Manufacturing	19,590	1,990	10.2	20,647	2,639	12.8	18,788	2,295	12.2	18,371	2,318	12.6
Nonmfg	69,779	1,268	1.8	79,613	2,170	2.7	91,348	2,118	2.3	93,503	2,258	2.4
Trade	16,653	489	2.9	19,737	845	4.3	21,999	949	4.3	22,528	995	4.4
Business serv.	16,750	215	1.3	17,245	575	3.3	21,139	227	1.1	22,101	248	1.1
Transp.[1]	4,797	185	3.9	6,369	305	4.8	6,155	282	4.6	6,157	298	4.8
Agriculture	3,044	129	4.2	3,225	144	4.5	3,423	127	3.7	3,395	140	4.1
Mining	747	34	4.6	947	69	7.3	1,016	50	4.9	986	51	5.2
Other	27,788	216	.8	32,090	233	.7	37,616	483	1.3	38,336	527	1.4

[1] Includes communications and utilities.

No. 1311. Manufacturing Establishments—Export-Related Shipments and Employment, 1977 to 1986, and by Industry, 1986

[The export-related employment data shown 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]

SIC[1] code	Industry group	Manufacturer's shipment value					Manufacturing employment				
		Total[2] (bil. dol.)	Export related: Total (bil. dol.)	Export related: Direct exports[3] (bil. dol.)	Export related: Supporting exports[4] (bil. dol.)	Export related as percent of shipments	Total[5] (1,000)	Export related: Total[5] (1,000)	Export related: Direct exports[6] (1,000)	Export related: Supporting exports[5,7] (1,000)	Export related as percent of total employment
(x)	1977	1,358.4	142.4	85.8	56.6	10.4	19,590	1,990	1,106	884	10.2
(x)	1980	1,852.7	249.8	151.2	98.6	13.5	20,647	2,639	1,486	1,153	12.8
(x)	1981	2,017.5	271.7	164.3	107.4	13.4	20,264	2,604	1,486	1,118	12.9
(x)	1983	2,055.3	246.4	141.6	104.8	12.0	18,737	2,173	1,118	1,056	11.6
(x)	1984	2,253.8	268.3	151.0	117.3	11.9	19,141	2,179	1,083	1,095	11.4
(x)	1985	2,278.9	286.7	156.9	129.8	12.6	18,788	2,295	1,083	1,212	12.2
(x)	**1986, total**[8]	**2,260.3**	**294.3**	**159.4**	**135.0**	**13.0**	**18,371**	**2,318**	**1,061**	**1,257**	**12.6**
20	Food and kindred products	308.5	15.4	11.2	4.2	5.0	1,409	56	40	16	4.0
21	Tobacco products	19.1	2.3	2.0	.3	12.1	46	7	6	1	14.8
22	Textile mill products	55.3	4.5	1.8	2.7	8.2	644	51	20	32	7.9
23	Apparel, other textile products	57.9	2.1	1.4	.7	3.6	1,017	24	14	11	2.4
24	Lumber and wood products	58.2	5.1	2.7	2.5	8.8	619	46	21	25	7.4
25	Furniture and fixtures	33.1	1.0	.5	.4	2.8	467	12	6	6	2.6
26	Paper and allied products	97.9	11.8	4.1	7.7	12.0	602	67	18	49	11.1
27	Printing and publishing	118.6	5.1	1.3	3.9	4.3	1,376	56	10	46	4.1
28	Chemical and allied products	197.1	34.4	20.1	13.4	17.4	802	130	80	51	16.3
29	Petroleum and coal products	124.9	11.4	3.1	8.2	9.1	124	10	4	7	8.4
30	Rubber, misc. plastics products	73.4	9.5	3.0	6.6	13.0	741	94	26	67	12.6
31	Leather, leather products	7.8	.7	.6	.1	8.8	130	6	5	1	4.5
32	Stone, clay, glass products	57.3	4.2	1.6	2.6	7.3	514	39	15	25	7.7
33	Primary metal industries	105.6	24.6	3.4	21.2	23.3	689	160	20	140	23.1
34	Fabricated metal products	138.0	17.8	5.2	12.6	12.9	1,419	188	51	137	13.3
35	Machinery, except electric	208.5	47.5	32.5	15.1	22.8	1,863	378	251	128	20.3
36	Electric, electronic equipment	196.2	41.9	18.1	23.7	21.3	1,941	460	188	272	23.7
37	Transportation equipment	313.8	42.6	36.0	6.6	13.6	1,769	224	185	39	12.7
38	Instruments and related products	61.9	10.2	8.5	1.7	16.5	586	104	87	18	17.8
39	Misc. manufacturing	27.2	2.2	1.6	.6	8.2	326	22	15	8	6.7

X Not applicable. [1] Standard Industrial Classification; see text, section 13. [2] Includes total domestic and export shipments for all manufacturing establishments. [3] Includes only the value of manufactured products exported by the producing plants. [4] Includes shipments of components, parts, supplies, etc., used by plants producing the export products. [5] Includes employees of central administrative offices and auxiliaries. [6] 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. [7] Manufacturing employment at establishment producing components, parts, supplies, etc. for use by plants producing for export. [8] Includes administrative and auxiliary units, not shown separately.

Source of tables 1310 and 1311: U.S. Bureau of the Census, *Census of Manufactures, 1977; Annual Survey of Manufactures, Origin of Exports of Manufactured Products;* and *Exports from Manufacturing Establishments* AR86-1.

No. 1312. Export-Related Shipments and Employment of Manufacturing Establishments, by State: 1986

[Advance data. See headnote, table 1311. For composition of regions, see fig. I, inside front cover. Includes employees of central administrative and auxiliary offices]

Region, division, and state	Manufactures shipment value					Manufacturing employment				
	Total (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 (bil. dol.)	Supporting exports (bil. dol.)			Total (1,000)	Direct exports (1,000)	Supporting exports (1,000)	
U.S	**2,260.1**	**294.1**	**159.4**	**134.6**	**13.7**	**18,371.8**	**2,315.4**	**1,058.2**	**1,257.2**	**13.2**
Region:										
Northeast	448.6	59.4	31.0	28.2	14.0	4,355.4	581.5	255.8	325.7	15.1
Midwest	733.8	91.2	49.8	41.4	11.9	5,352.5	684.4	296.2	388.2	12.1
South	719.3	86.5	43.7	42.7	11.8	5,625.0	586.3	260.4	325.9	10.3
West	358.4	57.0	34.9	22.3	17.1	3,038.9	463.2	245.8	217.4	15.3
N.E	**129.1**	**20.9**	**12.1**	**8.8**	**16.2**	**1,365.3**	**208.6**	**101.5**	**107.1**	**15.3**
ME	10.1	1.4	.8	.6	13.8	100.5	12.1	6.6	5.5	12.0
NH	9.4	1.7	.9	.8	17.6	102.0	15.5	7.1	8.4	15.2
VT	4.2	.8	.4	.4	20.1	43.1	8.4	4.0	4.4	19.5
MA	61.0	9.7	5.5	4.2	15.9	614.3	95.9	45.4	50.5	15.6
RI	8.4	1.1	.5	.6	12.7	108.0	12.9	5.1	7.8	11.9
CT	36.0	6.2	4.0	2.2	17.2	397.4	63.8	33.3	30.5	16.1
M.A	**319.5**	**38.5**	**18.9**	**19.4**	**11.8**	**2,990.1**	**372.9**	**154.3**	**218.6**	**12.4**
NY	138.1	17.1	9.4	7.7	12.4	1,267.5	160.9	74.9	86.0	12.7
NJ	73.1	7.7	3.5	4.1	10.5	680.0	80.0	27.0	53.0	11.8
PA	108.3	13.7	6.0	7.6	12.6	1,042.6	132.0	52.4	79.6	12.7
E.N.C	**549.7**	**70.4**	**36.9**	**33.6**	**12.6**	**4,079.6**	**533.1**	**219.4**	**313.7**	**12.9**
OH	145.5	20.2	10.7	9.5	13.9	1,086.7	151.4	63.0	88.4	13.9
IN	75.7	10.3	4.8	5.6	13.7	575.1	123.9	45.2	78.7	12.5
IL	123.8	15.1	7.2	7.9	12.2	988.9	76.0	32.3	43.7	13.2
MI	140.6	18.1	10.9	7.2	12.9	942.8	125.3	56.2	69.1	13.3
WI	64.1	6.7	3.3	3.4	10.5	486.1	56.5	22.7	33.8	11.6
W.N.C	**184.1**	**20.8**	**12.9**	**7.8**	**11.1**	**1,272.9**	**151.3**	**76.8**	**74.5**	**11.3**
MN	42.8	6.1	3.7	2.4	14.2	357.5	54.0	25.6	28.4	15.1
IA	31.2	3.3	1.9	1.3	10.5	192.7	20.7	11.0	9.7	10.7
MO	56.4	6.6	4.3	2.4	11.4	407.4	44.0	21.6	22.4	10.8
ND	2.3	.3	.2	.1	14.8	14.1	2.0	1.3	.7	14.2
SD	3.9	.3	.2	.1	8.5	26.5	2.1	1.0	1.1	7.9
NE	15.1	1.3	.8	.5	8.6	88.0	8.2	3.9	4.3	9.3
KS	30.4	2.9	1.8	1.0	9.4	186.7	20.3	12.4	7.9	10.9
S.A	**333.8**	**38.0**	**19.7**	**18.2**	**11.8**	**2,968.8**	**294.9**	**127.8**	**167.1**	**10.4**
DE	8.7	.9	.4	.5	10.2	64.2	8.0	2.2	5.8	12.5
MD	26.1	3.1	1.7	1.4	11.9	217.7	25.4	12.1	13.3	11.7
DC	1.9	.1	-	-	7.9	16.1	1.1	.4	.7	6.8
VA	47.3	5.1	2.7	2.4	10.7	406.5	38.4	17.5	20.9	9.4
WV	10.7	2.1	1.0	1.1	19.6	85.9	12.4	4.6	7.8	14.4
NC	84.9	9.7	5.3	4.5	11.4	802.9	75.5	33.3	42.2	9.4
SC	36.1	4.9	2.4	2.5	13.7	352.5	39.1	16.1	23.0	11.1
GA	67.8	5.9	2.8	3.0	8.6	543.3	42.5	16.9	25.6	7.8
FL	50.3	6.2	3.4	2.8	12.4	479.7	52.5	24.7	27.8	10.9
E.S.C	**148.2**	**16.8**	**7.8**	**8.9**	**11.4**	**1,237.9**	**115.0**	**46.1**	**68.9**	**9.3**
KY	37.3	4.1	1.9	2.2	11.1	237.9	24.4	8.9	15.5	10.3
TN	52.7	5.8	2.9	2.9	10.9	466.4	42.2	17.9	24.3	9.0
AL	36.5	4.4	1.7	2.7	12.1	328.9	31.7	12.1	19.6	9.6
MS	21.7	2.5	1.3	1.1	11.3	204.7	16.7	7.2	9.5	8.2
W.S.C	**237.3**	**31.7**	**16.2**	**15.6**	**12.1**	**1,418.3**	**176.4**	**86.5**	**89.9**	**11.3**
AR	22.1	2.3	1.1	1.3	10.6	193.6	17.8	7.2	10.6	9.2
LA	43.9	6.0	3.0	3.0	13.6	158.5	16.7	8.2	8.5	10.5
OK	22.4	2.2	1.1	1.1	9.9	159.2	19.3	9.5	9.8	12.1
TX	148.9	21.2	11.0	10.2	14.3	907.0	122.6	61.6	61.0	13.5
Mt	**64.8**	**9.4**	**5.0**	**4.6**	**12.8**	**568.3**	**81.8**	**38.6**	**43.2**	**11.7**
MT	3.0	.3	.1	.2	10.6	20.2	1.6	.3	1.3	7.9
ID	5.9	.8	.5	.3	13.4	48.8	6.1	3.4	2.7	12.5
WY	1.8	.1	-	.1	8.0	6.8	.5	.1	.4	7.4
CO	20.0	2.4	1.5	1.0	12.2	181.2	25.3	13.5	11.8	14.0
NM	3.8	.5	.2	.3	11.9	33.9	2.4	.7	1.7	7.1
AZ	17.7	3.6	1.8	1.9	20.4	165.0	31.3	13.8	17.5	19.0
UT	10.4	1.4	.7	.7	13.2	91.5	11.9	5.2	6.7	13.0
NV	2.2	.3	.2	.1	12.9	20.9	2.7	1.6	1.1	12.9
Pac	**293.6**	**47.6**	**29.9**	**17.7**	**21.3**	**2,470.6**	**381.4**	**207.2**	**174.2**	**18.8**
WA	42.3	11.9	9.9	2.1	28.2	279.0	59.6	43.9	15.7	21.4
OR	21.7	3.2	1.9	1.3	14.5	186.2	27.9	16.8	11.1	15.0
CA	224.5	31.4	17.2	14.2	14.0	1,973.6	289.6	142.9	146.7	14.7
AK	2.0	.8	.7	-	39.4	9.0	3.6	3.4	.2	40.0
HI	3.1	.3	.2	.1	10.3	22.8	.7	.2	.5	3.1

- Represents zero.

Source: U.S. Bureau of the Census, *Exports from Manufacturing Establishments* AR86-1.

No. 1313. Imports for Consumption of Manufactured Products: 1970 to 1987

[Import data for **1974–81** are valued on a f.a.s. basis. Data for **1970–73** and **1982–86** are valued on a customs basis. Data for all years have been adjusted to include comparable commodities in each group. Minus sign (–) indicates decrease]

SIC [1] code	PRODUCT	1987		GROWTH RATE [2] (percent)			IMPORT PENETRATION RATIO [3] (percent)			
		Value (mil. dol.)	Percent distribution	1970–1987	1980–1987	1986–1987	1972	1977	1982	1987
(x)	**Manufacturing**	**340,089**	**100.0**	**15.0**	**12.6**	**10.0**	**6.1**	**7.0**	**8.5**	**12.9**
(x)	Nondurables	94,298	27.7	13.0	9.0	11.6	4.7	5.4	5.8	8.0
20	Food and kindred products	13,180	3.9	8.0	3.4	5.3	3.9	3.8	3.6	4.2
21	Tobacco manufactures	90	–	10.5	.4	10.2	.6	.7	1.8	.5
22	Textile mill products	4,780	1.4	9.3	13.0	13.1	5.6	4.2	5.4	8.4
23	Apparel and other mill products	21,503	6.3	18.0	18.6	18.3	7.0	10.3	14.3	24.5
26	Paper and allied products	9,715	2.9	11.3	8.7	18.0	5.6	6.3	6.1	7.3
27	Printing and publishing	1,329	.4	13.7	14.6	7.5	1.0	.9	.9	1.4
28	Chemicals and allied products	14,318	4.2	15.3	10.8	8.5	3.2	3.9	4.5	6.7
29	Petroleum and coal products	13,123	3.9	13.3	–.3	2.2	7.1	8.5	7.3	9.8
30	Rubber and plastics products	6,331	1.9	14.2	12.7	17.7	4.7	5.4	5.1	6.9
31	Leather and leather products	9,930	2.9	16.9	16.6	14.8	15.9	21.2	33.9	54.8
(x)	Durables	245,791	72.3	16.0	14.3	9.4	7.2	8.3	11.2	16.8
24	Lumber and wood products	5,959	1.8	11.2	7.3	10.9	9.4	9.3	8.2	10.2
25	Furniture and fixtures	4,575	1.3	19.6	22.9	14.5	2.6	3.6	5.3	10.6
32	Stone, clay, and glass products	5,560	1.6	14.7	13.7	13.2	3.7	4.0	5.3	8.3
33	Primary metal industries	19,108	5.6	9.9	2.9	4.2	8.9	10.0	14.7	16.8
34	Fabricated metal products	9,617	2.8	14.4	11.8	12.7	2.5	3.2	4.3	6.0
35	Machinery, except electrical	42,319	12.4	18.7	18.1	18.4	5.4	6.3	8.4	16.9
36	Electrical and electronic equipment	45,782	13.5	18.2	16.7	8.5	7.6	10.4	12.4	18.5
37	Transportation equipment	86,658	25.5	16.6	16.0	5.6	9.8	10.2	15.4	20.9
38	Instruments and related products	11,547	3.4	17.5	13.7	8.5	6.7	9.2	10.1	16.0
39	Miscellaneous manufacturing industries	14,666	4.3	15.9	15.2	14.8	13.3	17.2	24.0	37.5

– Represents zero. X Not applicable. [1] Standard Industrial Classification. [2] 1970–87 and 1980–87 rates are compound annual growth rates. [3] Ratio of imports to new supply (product shipments plus imports).

No. 1314. Imports for Consumption for 28 Leading 3-Digit SIC Product Groups: 1970 to 1987

[See headnote table 1313. N.e.c. = Not elsewhere classified]

1977 SIC [1] code	PRODUCT GROUP	1987		GROWTH RATE [2] (percent)			IMPORT PENETRATION RATIO [3] (percent)			
		Value (mil. dol.)	Percent distribution	1970–1987	1980–1987	1986–1987	1972	1977	1982	1987
314	Footwear, except rubber	6,862	2.0	17.6	17.4	11.1	17.1	24.0	38.2	62.4
365	Radio and TV receiving equipment	11,763	3.5	14.1	16.3	–7.2	31.9	37.4	43.1	59.2
387	Watches, clocks, and watchcases	1,613	.5	14.0	6.4	11.2	21.1	34.0	45.9	58.1
375	Motorcycles, bicycles, and parts	1,343	.4	7.6	–1.9	–10.8	65.1	51.2	53.8	57.5
317	Handbags and personal leather goods	1,128	.3	15.8	13.0	22.3	18.1	26.9	37.4	56.5
391	Jewelry, silverware, and plated ware	5,832	1.7	18.7	14.1	3.1	22.0	31.1	41.9	56.3
237	Fur goods	515	.2	28.8	28.4	17.1	3.7	9.6	25.0	55.6
316	Luggage	870	.3	22.1	19.4	23.7	15.4	19.7	34.8	55.4
313	Boot, shoe cut stock and findings	251	.1	29.5	17.6	14.4	2.2	10.5	24.7	48.8
393	Musical instruments	790	.2	16.0	24.6	35.3	15.0	14.2	21.5	46.0
394	Toys and sporting goods	5,749	1.7	17.3	17.4	27.1	13.0	17.3	25.6	41.8
326	Pottery and related products	1,492	.4	14.3	10.8	17.4	21.3	27.0	30.9	41.3
236	Children's outerwear	6,425	1.9	17.3	20.9	14.7	16.3	18.6	20.2	40.5
238	Miscellaneous apparel and accessories	1,453	.4	14.7	15.6	36.1	16.1	27.7	25.0	38.1
315	Leather gloves and mittens	90	–	5.6	7.0	10.7	22.3	24.3	27.2	36.5
385	Ophthalmic goods	830	.2	18.3	16.9	13.8	12.4	19.7	24.0	36.4
302	Rubber and plastics footwear	348	.1	3.9	–4.5	27.9	33.9	61.3	33.6	35.8
328	Cut stone and stone products	430	.1	17.7	26.2	15.4	10.6	8.2	23.6	35.6
333	Primary nonferrous metals	6,647	2.0	9.1	–1.1	1.8	17.7	20.3	23.6	33.7
319	Leather goods, n.e.c.	168	–	14.1	15.0	18.7	15.1	13.6	16.1	31.9
381	Engineering and scientific instruments	245	.1	17.1	13.0	15.3	12.5	16.2	32.4	30.6
355	Special industry machinery	4,559	1.3	14.1	14.1	13.9	14.7	13.6	18.4	29.6
261	Pulpmills	2,069	.6	8.9	2.5	29.2	30.4	33.1	29.1	27.7
371	Motor vehicles and equipment	78,113	23.0	16.9	17.1	6.3	11.6	12.4	20.6	26.4
233	Women's and misses' outerwear	4,573	1.3	19.3	20.1	13.0	4.9	8.0	14.4	26.2
396	Costume jewelry and notions	985	.3	14.2	10.4	16.7	13.8	17.5	17.7	25.9
235	Hats, caps, and millinery	210	.1	14.2	9.5	8.9	11.0	12.6	18.8	24.8
232	Men's and boys' furnishings	5,176	1.5	19.3	16.0	26.8	7.2	11.1	16.3	24.0

– Represents zero. [1] Standard Industrial Classification. [2] 1970–87 and 1980–87 rates are compound annual growth rates. [3] Ratio of imports to new supply (product shipments plus imports).

Source of tables 1313 and 1314: U.S. International Trade Administration, *Industrial Outlook*, annual.

No. 1315. Domestic Exports of Manufactured Products: 1970 to 1987

[Data are valued on a f.a.s. basis. Data for all years have been adjusted to include comparable commodities in each group. Minus sign (−) indicates decrease]

SIC [1] code	PRODUCT	1987		GROWTH RATE [2] (percent)			RATIO OF EXPORTS TO PRODUCT SHIPMENTS (percent)			
		Value (mil. dol.)	Percent distribution	1970–1987	1980–1987	1986–1987	1972	1977	1982	1987
(x)	**Manufacturing**	**198,355**	**100.0**	**10.9**	**2.5**	**15.3**	**5.6**	**7.4**	**9.1**	**8.2**
(x)	Nondurables	60,148	30.3	11.3	2.5	16.6	3.5	4.5	5.4	5.2
20	Food and kindred products	12,320	6.2	9.8	.2	9.5	2.9	4.1	4.3	3.9
21	Tobacco manufactures	2,278	1.1	15.7	11.2	53.9	5.7	9.4	10.3	9.1
22	Textile mill products	1,891	1.0	8.9	−3.8	14.4	2.9	4.3	4.9	3.9
23	Apparel and other mill products	1,490	.8	11.8	−1.0	26.5	1.2	2.2	2.4	2.1
26	Paper and allied products	5,676	2.9	10.1	2.8	26.7	4.1	4.9	5.5	4.7
27	Printing and publishing	1,525	.8	9.4	4.6	17.5	1.3	1.5	1.7	1.2
28	Chemicals and allied products	26,090	13.2	11.8	2.7	15.6	7.6	9.7	12.5	11.9
29	Petroleum and coal products	4,479	2.3	13.3	6.7	5.9	1.9	1.4	3.2	3.6
30	Rubber and plastics products	3,710	1.9	12.6	4.8	26.1	3.1	4.0	4.8	4.1
31	Leather and leather products	688	.3	15.0	4.4	32.2	1.8	3.8	5.7	7.3
(x)	Durables	138,207	69.7	10.7	2.5	14.8	7.4	10.0	13.0	10.8
24	Lumber and wood products	3,961	2.0	10.8	1.0	31.2	4.1	5.8	7.2	5.5
25	Furniture and fixtures	550	.3	15.5	2.8	18.1	.6	1.5	2.5	1.5
32	Stone, clay, and glass products	2,045	1.0	9.3	.9	18.7	2.4	3.4	4.3	3.2
33	Primary metal industries	4,772	2.4	4.5	8.3	32.7	2.8	3.0	5.0	3.6
34	Fabricated metal products	6,185	3.1	8.1	−1.3	11.6	3.9	5.6	6.6	4.5
35	Machinery, except electrical	41,054	20.7	10.2	1.1	12.9	14.9	19.5	23.3	20.1
36	Electrical and electronic equipment	24,359	12.3	13.7	5.8	19.3	6.7	10.6	12.7	10.8
37	Transportation equipment	42,371	21.4	11.5	5.4	11.6	9.2	11.6	15.6	12.5
38	Instruments and related products	10,191	5.1	11.7	4.1	10.3	12.6	16.6	17.4	16.5
39	Miscellaneous manufacturing industries	2,719	1.4	10.4	−.9	30.7	7.6	9.4	9.5	9.3

X Not applicable. [1] Standard Industrial Classification. [2] See footnote 2, table 1313.

No. 1316. Domestic Exports for 28 Leading 3-Digit SIC Product Groups: 1970 to 1987

[See headnote, table 1315. N.e.c.=Not elsewhere classified]

1977 SIC [1] code	PRODUCT GROUP	1987		GROWTH RATE [2] (percent)			EXPORT/SHIPMENTS RATIO (percent)			
		Value (mil. dol.)	Percent distribution	1970–1987	1980–1987	1986–1987	1972	1977	1982	1987
299	Petroleum and coal products	358	.2	11.3	−4.9	−5.6	47.0	48.5	59.3	55.5
261	Pulpmills	2,345	1.2	9.8	4.3	35.0	33.4	37.5	40.9	41.5
357	Office and computing machines	18,342	9.2	15.5	11.6	21.1	20.9	23.8	24.6	28.2
353	Construction and related machinery	5,796	2.9	5.9	−9.0	−7.7	24.0	28.5	38.8	26.6
372	Aircraft and parts	20,618	10.4	11.9	5.2	13.3	24.9	29.1	29.9	25.5
374	Railroad equipment	331	.2	8.5	−3.9	−36.4	9.0	7.3	14.7	24.7
355	Special industry machinery	2,324	1.2	7.5	.2	21.5	19.5	24.6	27.7	22.6
382	Measuring and controlling devices	4,074	2.1	11.2	4.4	10.7	19.4	24.0	24.6	22.4
311	Leather tanning and finishing	391	.2	14.9	5.4	24.9	7.1	11.8	19.0	21.5
383	Optical instruments and lenses	1,121	.6	18.3	7.2	7.3	12.0	10.3	18.8	21.3
287	Agricultural chemicals	3,020	1.5	14.9	−2.6	15.2	9.8	12.1	21.0	21.2
281	Industrial inorganic chemicals	3,609	1.8	11.2	3.2	4.5	12.4	14.7	19.3	20.9
369	Miscellaneous electrical equipment	4,097	2.1	17.6	9.9	21.6	8.5	13.5	21.7	20.3
359	Machinery, except electrical	1,516	.8	26.3	9.7	21.1	1.5	2.2	16.3	20.3
351	Engines and turbines	2,960	1.5	9.9	−2.7	9.3	13.8	20.7	28.3	19.8
367	Electronic components and accessories	10,082	5.1	15.4	8.0	23.4	11.6	17.8	19.8	19.0
286	Industrial organic chemicals	8,195	4.1	12.3	3.6	18.8	11.2	11.6	17.0	19.0
241	Logging camps, log contractors	1,653	.8	9.2	.5	33.3	20.4	20.4	19.1	18.2
391	Jewelry, silverware, and plated ware	1,021	.5	11.3	.2	29.1	14.2	15.3	12.9	18.1
213	Chewing and smoking tobacco	223	.1	12.6	45.1	26.3	13.7	4.2	5.8	17.5
393	Musical instruments	171	.1	11.5	−3.3	49.2	8.2	14.6	16.7	16.7
381	Engineering and scientific instruments	715	.4	9.3	7.8	13.1	11.2	12.1	16.9	15.5
356	General industrial machinery	4,859	2.4	8.1	−.8	7.8	15.0	19.6	18.4	15.4
386	Photographic equipment and supplies	2,333	1.2	10.3	−.4	4.5	11.8	15.6	15.9	15.3
207	Fats and oils	2,240	1.1	5.6	−7.1	−1.5	15.0	17.2	18.6	15.2
348	Ordnance and accessories, n.e.c.	641	.3	5.7	–	13.3	11.4	25.1	17.9	14.8
306	Fabricated rubber products, n.e.c.	96	–	19.6	17.3	12.3	2.4	3.6	8.1	12.7
352	Farm and garden machinery	1,343	.7	7.9	−6.3	11.9	9.6	14.4	15.3	12.5

– Represents zero. [1] Standard Industrial Classification. [2] See footnote 2, table 1313.

Source of tables 1315 and 1316: U.S. International Trade Administration, *Industrial Outlook*, annual.

No. 1317. Beverage Industry—Summary: 1970 to 1987

YEAR AND ITEM	Unit	Total	Malt beverages	Malt	Wine, brandy, brandy spirits	Distilled liquor, exc. brandy	Soft drinks (bottled, canned)	Flavoring, extracts, sirups
1970: Employees	1,000	228	57	2	9	21	129	11
Payroll	Mil. dol	1,884	616	19	71	171	916	91
Value added by manufacture	Mil. dol	6,144	2,028	58	258	887	2,121	792
Value of shipments	Mil. dol	12,373	3,822	210	591	1,758	4,631	1,361
1980: Employees	1,000	199	43	2	11	14	118	11
Payroll	Mil. dol	3,646	1,122	40	191	253	1,850	191
Value added by manufacture	Mil. dol	13,708	3,639	162	811	1,849	5,348	1,898
Value of shipments	Mil. dol	33,041	9,362	680	2,189	3,389	13,909	3,513
1985: Employees	1,000	183	40	2	13	10	106	12
Payroll	Mil. dol	4,624	1,358	44	297	268	2,345	314
Value added by manufacture	Mil. dol	19,293	5,681	162	1,063	1,691	7,587	3,108
Value of shipments	Mil. dol	43,243	12,216	571	2,763	3,495	19,358	4,840
1986: Employees	1,000	172	34	2	13	10	102	11
Payroll	Mil. dol	4,548	1,255	41	318	261	2,348	325
Value added by manufacture	Mil. dol	20,952	6,185	163	1,234	1,845	8,215	3,310
Value of shipments	Mil. dol	45,588	12,678	539	3,163	3,504	20,687	5,017
1987: Employees	1,000	159	32	1	13	9	95	9
Payroll	Mil. dol	4,488	1,354	44	328	239	2,269	254
Value added by manufacture	Mil. dol	22,707	7,268	152	1,312	2,044	8,648	3,283
Value of shipments	Mil. dol	47,370	13,602	526	3,167	3,420	22,020	4,635

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures and Census of Manufactures, 1982.*

No. 1318. Alcoholic Beverages—Summary: 1970 to 1988

[For fiscal years ending in year shown; see text, section 9. Includes Puerto Rico. Excludes imports. See *Historical Statistics, Colonial Times to 1970,* series P 235 for beer production, and P 236a for distilled spirits]

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Beer: Breweries operated	Number	154	86	92	82	92	96	103	103	120	183
Production	Mil. bbl.[1]	135	193	195	194	196	193	194	194	196	197
Imports (Incl. ale, etc.)[2]	Mil. bbl.[1]	(NA)	4.6	5.2	5.8	6.3	7.2	7.9	8.8	9.4	9.4
Value of shipments (SIC 2082)[3]	Mil. dol	3,822	9,362	10,179	11,183	11,798	11,868	12,216	12,678	13,602	(NA)
Tax-paid withdrawals	Mil. bbl.[1]	123	172	177	176	178	176	175	177	178	178
Stocks on hand, June 30	Mil. bbl.[1]	15	15	14	14	15	14	14	14	14	14
Per capita consumption[4]	Gallons	(NA)	24.5	24.7	24.4	24.3	23.9	23.7	24.0	23.7	(NA)
Distilled spirits:											
Production facilities operated	Number	140	143	114	121	121	112	117	117	102	105
Warehouses operated	Number	274	200	198	202	193	202	214	216	211	186
Production, total[5]	Mil. tax gal.[6]	355	236	259	217	181	134	117	102	90	99
Whisky	Mil. tax gal.[6]	160	87	90	96	80	77	65	54	42	38
Imports[2]	Mil. tax gal.[6]	90.9	90.7	117.9	106.0	116.4	117.7	115.8	107.6	102.5	106.4
Tax-paid withdrawals, total[7]	Mil. tax gal.[6]	256	330	321	312	306	301	306	265	271	255
Whisky	Mil. tax gal.[6]	112	42	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Stocks on hand, June 30, total[5]	Mil. tax gal.[6]	1,091	696	691	654	640	636	588	546	508	456
Whisky	Mil. tax gal.[6]	960	566	544	540	523	490	467	445	409	370
Bottled for consumption, total	Mil. wine gal.[8]	312	392	388	375	377	368	371	328	337	317
Whisky	Mil. wine gal.[8]	192	165	162	153	154	142	138	121	119	111
Per capita[4]	Wine gal.[1]	(NA)	2.0	2.0	1.9	1.8	1.8	1.7	1.6	1.6	(NA)
Still wines: Production[9]	Mil. wine gal.[8]	713	982	901	546	813	684	622	667	677	538
Imports[2]	Mil. wine gal.[8]	22.1	90.7	101.1	107.5	58.6	58.8	57.9	60.3	52.9	51.8
Tax-paid withdrawals[10]	Mil. wine gal.[8]	204	340	363	365	367	376	414	441	451	451
Stocks on hand, June 30[11]	Mil. wine gal.[8]	207	486	602	519	596	577	602	601	618	570
Per capita[4]	Wine gal.[1]	(NA)	2.1	2.2	2.2	2.2	2.3	2.4	2.3	2.2	(NA)
Effervescent wines:[12]											
Production	Mil. wine gal.[8]	20.0	26.8	31.2	30.6	36.6	34.6	32.0	32.1	29.2	29.8
Imports[2]	Mil. wine gal.[8]	2.0	5.2	7.9	8.7	11.4	15.7	16.0	14.7	14.1	13.8
Tax-paid withdrawals	Mil. wine gal.[8]	17.1	24.1	27.0	26.5	31.7	31.9	30.9	31.4	31.2	29.2
Stocks on hand, June 30	Mil. wine gal.[8]	8.1	11.9	14.4	17.6	21.5	20.5	21.3	19.3	18.7	18.2
Per capita[4]	Wine gal.[1]	.15	.17	.19	.22	.22	.21	(NA)	(NA)	(NA)	(NA)
Of domestic output	Wine gal.[1]	.13	.12	.14	.17	.17	.17	(NA)	(NA)	(NA)	(NA)

NA Not available. [1] Barrels of 31 wine gallons (see footnote 7). [2] Source: U.S. Bureau of the Census, *Imports for Consumption, General Imports,* FT 246. [3] Source: U.S. Bureau of the Census, *Census of Manufactures, 1977* and *1982,* and *Annual Survey of Manufactures.* [4] Source: U.S. Dept. of Commerce, International Trade Administration. Based on resident population as of July 1, including Armed Forces abroad. [5] Excludes alcohol produced for industrial use. [6] A tax gallon for spirits of 100 proof or over is equivalent to the proof gallon; for spirits of less than 100 proof to the wine gallon. (See footnote 8.) A proof gallon is the alcoholic equivalent of a U.S. gallon at 60°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] Production represents total amount removed from fermenters, including distilling material, and includes increase after fermentation (by amelioration, sweetening, and addition of wine spirits). In 1980, 184 million gallons of distilling materials were produced; 1981, 264 mil. gal.; 1982, 138 mil. gal.; 1983, 223 mil. gal.; 1984, 169 mil. gal.; 1985, 148 mil. gal.; 1986, 149 mil. gal.; 1987, 155 mil. gal.; and in 1988, 119 mil. gal. [10] Includes special natural wines. [11] Excludes distilling materials. [12] 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.

No. 1319. Food Manufacturing Industry—Summary: 1970 to 1988

[Covers manufacturers of food and kindred products (Standard Industrial Classification Code 20); based on various editions of the Standard Industrial Classification Manual, see text, section 13]

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988
Total employees [1]	1,000	1,786	1,658	1,708	1,636	1,615	1,612	1,603	1,609	1,620	1,636
Production workers	1,000	1,207	1,120	1,175	1,126	1,114	1,120	1,118	1,131	1,148	1,163
Avg. hourly earnings, prod. workers	Dollars	3.16	4.61	6.85	7.92	8.19	8.39	8.57	8.75	8.93	9.10
Salaries and wages	Bil. dol.	11.7	15.9	23.2	26.1	26.6	27.4	28.1	28.6	(NA)	(NA)
Value added by manufacture [2]	Bil. dol.	32.3	48.1	75.5	88.4	93.4	98.0	104.1	112.2	(NA)	(NA)
Value of shipments [3]	Bil. dol.	98.5	172.2	256.2	280.5	287.1	300.0	301.6	308.5	(NA)	(NA)
Total assets	Bil. dol.	23.8	33.0	48.6	58.6	61.5	64.6	69.6	(NA)	(NA)	(NA)
Capital expenditures, new [4]	Bil. dol.	2.1	3.4	5.8	6.7	5.8	6.4	7.0	7.0	(NA)	(NA)
Corporate profits before taxes [5]	Bil. dol.	4.8	8.8	13.0	13.3	14.8	15.5	20.9	21.1	24.0	30.3
Corporate profits after taxes [5]	Bil. dol.	2.6	5.2	8.2	8.4	9.4	9.8	12.8	13.3	15.6	20.7
Ratio of profits to stockholders' equity [6]	Percent	10.8	14.4	14.7	13.0	12.2	13.3	15.3	16.2	17.4	21.0
Profits per dollar of sales [6]	Cents	2.5	3.2	3.4	3.1	3.3	3.3	4.1	4.2	4.6	5.5

NA Not available. [1] Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly. [2] See footnote 7, table 1295. [3] See footnote 8, table 1295. [4] Includes expenditures for plants in operation and plants under construction but not yet in operation. [5] Source: Through 1980, U.S. Federal Trade Commission, thereafter U.S. Bureau of the Census, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*. Data are not necessarily comparable from year to year due to changes in accounting procedures, industry classifications, sampling procedures, etc.; for detail, see source. [6] Return on equity and after tax profit rates are averages of quarterly figures at annual rates.

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

No. 1320. Tobacco Products—Production, Consumption, and Expenditures: 1970 to 1988

[Production data are for calendar years. Excludes cigars produced in customs bonded manufacturing warehouses. See also *Historical Statistics, Colonial Times to 1970*, series P 239-241]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Production:													
Cigarettes	Billions	583	651	704	714	737	694	667	669	665	658	689	695
Nonfilter tip	Billions	116	80	58	54	54	47	43	39	36	33	30	28
Regular	Billions	54	36	26	23	24	21	19	18	16	15	14	12
King	Billions	62	44	32	30	30	26	24	21	20	18	16	16
Filter tip	Billions	467	571	647	661	683	647	625	630	629	625	660	667
Long	Billions	48	69	82	84	74	73	76	77	75	75	78	79
King	Billions	314	335	346	355	371	331	308	303	303	298	319	321
Extra long	Billions	105	167	219	222	237	243	241	251	252	252	263	267
Cigars	Billions	8.4	5.7	4.4	4.0	4.0	3.7	3.6	3.5	3.1	2.9	2.1	2.0
Tobacco [1]	Mil. lb	165	152	159	163	163	163	162	163	158	147	141	(NA)
Per capita consumption: [2]													
All products	Lb.[3]	9.7	9.1	8.3	7.9	7.6	7.5	7.2	6.9	6.8	6.6	6.5	6.2
Cigarettes	1,000	4.0	4.1	3.9	3.8	3.8	3.7	3.5	3.4	3.4	3.3	3.2	3.1
Cigars [4]	Number	60	39	27	24	23	22	21	20	18	17	15	14
Expenditures (consumer)	Mil. dol.	11.5	15.5	19.2	21.0	23.0	25.3	28.7	30.7	32.2	33.7	35.5	37.8
Cigarettes	Mil. dol.	10.4	14.3	17.7	19.4	21.2	23.5	26.8	28.8	30.3	31.8	33.4	35.9
Cigars	Mil. dol.	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.6	.6
Other	Mil. dol.	.4	.6	.8	.9	1.0	1.1	1.2	1.2	1.2	1.2	1.3	1.4

NA Not available. [1] Smoking and chewing tobaccos and snuff output. [2] Based on U.S. Bureau of the Census 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*, quarterly.

No. 1321. Mill Consumption of Natural Fibers: 1970 to 1988

[**In million of pounds.** See *Historical Statistics, Colonial Times to 1970*, series P 229 and P 230, for wool and silk]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
Cotton, total [1]	3,854	3,027	3,041	3,077	3,036	2,715	2,488	2,808	2,716	2,813	3,254	3,753	3,482
Wool, total [2]	240	110	115	117	123	139	116	141	142	117	137	143	144
Flax, total	6	3	4	5	2	4	8	5	6	4	4	3	2
Silk, total	2	1	2	2	1	2	2	2	1	1	1	1	1

[1] Reported by U.S. Bureau of the Census. For American cotton, tare as reported by Crop Reporting Board is deducted. For foreign cotton, 20 pounds deducted. [2] Reported by U.S. Bureau of the Census. Excludes consumption in cotton and other spinning systems and consumption in batting and felt manufacture.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Cotton and Wool Outlook and Situation*, annual.

No. 1322. Cotton, Wool, and Manmade Fibers—Consumption and Distribution in Selected Consumer Products: 1980 to 1987

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

End-use and year	Total (mil. lb.)	Cotton		Wool		Man-made fibers					
								Cellulosic [1]		Non-cellulosic [2]	
		Total (mil. lb.)	Percent end-use	Total (mil. lb.)	Percent end-use	Total (mil. lb.)	Percent end-use	Total (mil. lb.)	Percent end-use	Total (lb.)	Percent end-use
Total:											
1980	11,205	3,125	27.9	167	1.5	7,913	70.6	748	6.7	7,165	63.9
1982	9,643	2,724	28.2	170	1.8	6,749	70.0	532	5.5	6,217	64.5
1983	11,265	2,933	26.0	204	1.8	8,128	72.2	576	5.2	7,552	67.0
1984	11,310	3,056	27.0	231	2.1	8,023	70.9	576	5.1	7,447	65.8
1985	11,538	3,176	26.8	194	1.7	8,168	71.5	542	4.7	7,626	66.8
1986	12,500	3,509	27.3	216	1.7	8,775	71.0	606	4.9	8,169	66.1
1987	13,413	4,086	29.8	227	1.7	9,100	68.5	586	4.4	8,514	64.1
Apparel:											
1980	4,696	1,652	35.2	125	2.7	2,919	62.1	297	6.3	2,622	55.8
1982	4,027	1,557	38.6	127	3.2	2,343	58.2	213	5.3	2,130	52.9
1983	4,565	1,646	36.0	153	3.4	2,766	60.6	228	5.0	2,538	55.6
1984	4,389	1,718	39.1	171	3.9	2,500	57.0	239	5.5	2,261	51.5
1985	4,282	1,766	41.2	141	3.3	2,375	55.5	208	4.9	2,167	50.6
1986	4,758	1,961	41.2	159	3.3	2,638	55.5	250	5.3	2,388	50.2
1987	5,393	2,440	45.2	157	3.0	2,796	51.8	236	4.4	2,560	47.4
Home furnishings:											
1980	1,717	787	45.8	15	.9	915	53.3	169	9.9	746	43.4
1982	1,425	665	46.7	16	1.1	744	52.2	104	7.3	640	44.9
1983	1,775	798	45.0	19	1.0	958	54.0	134	7.5	824	46.5
1984	1,849	863	46.7	21	1.1	965	52.2	133	7.2	832	45.0
1985	1,895	912	48.1	18	.9	965	51.0	125	6.6	840	44.4
1986	1,938	1,020	52.6	18	.9	900	46.5	131	6.8	769	39.7
1987	2,019	1,129	55.9	18	.9	872	43.2	139	6.9	733	36.3
Floor coverings:											
1980	1,926	15	.8	10	.5	1,901	98.7	-	-	1,901	98.7
1982	1,711	10	.6	11	.6	1,690	98.8	1	.1	1,689	98.7
1983	2,207	14	.6	13	.6	2,180	98.8	1	.1	2,179	98.7
1984	2,287	14	.6	14	.6	2,259	98.8	1	.1	2,258	98.7
1985	2,565	15	.6	12	.5	2,538	98.9	1	-	2,537	98.9
1986	2,800	16	.6	17	.6	2,767	98.8	2	.1	2,765	98.7
1987	2,975	17	.6	24	.8	2,934	98.6	1	-	2,933	98.6
Exports of domestic products:											
1980	617	259	42.0	6	1.0	352	57.0	31	5.0	321	52.0
1982	339	115	33.9	6	1.8	218	64.3	19	5.6	199	58.7
1983	284	93	32.7	5	1.8	186	65.5	17	6.0	169	59.5
1984	280	85	30.4	4	1.4	191	68.2	16	5.7	175	62.5
1985	328	108	33.0	10	3.0	210	64.0	16	4.9	194	59.1
1986	384	143	37.2	9	2.4	232	60.4	19	4.9	213	55.5
1987	406	127	31.3	15	3.7	264	65.0	22	5.4	242	59.6
Industrial: [3]											
1980	2,249	412	18.3	11	.5	1,826	81.2	251	11.2	1,575	70.0
1982	2,141	377	17.6	10	.5	1,754	81.9	195	9.1	1,559	72.8
1983	2,434	382	15.7	14	.6	2,038	83.7	196	8.0	1,842	75.7
1984	2,505	376	15.0	21	.8	2,108	84.2	187	7.5	1,921	76.7
1985	2,468	375	15.1	13	.5	2,080	84.4	192	7.9	1,888	76.5
1986	2,620	369	14.1	13	.5	2,238	85.4	204	7.8	2,034	77.6
1987	2,620	373	14.2	13	.5	2,234	85.3	188	7.2	2,046	78.1

- Represents zero. [1] Rayon and acetate. [2] Nylon, polyester, acrylic, olefin, except as noted. [3] Includes consumer-type products.

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

No. 1323. U.S. Exports and Imports of Textiles and Apparel Products: 1980 to 1988

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

Product	Exports					General imports				
	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988
Total	**4,458**	**2,712**	**3,074**	**3,619**	**4,316**	**8,139**	**18,309**	**21,353**	**24,812**	**25,107**
Textile mill products	3,457	2,112	2,347	2,671	3,046	2,372	4,714	5,517	6,229	5,980
Yarn and thread	642	569	431	526	619	168	506	638	679	644
Cotton broad woven fabric	546	203	301	292	286	433	837	1,006	1,293	984
Other broad woven and knit fabric	809	477	500	579	544	784	1,353	1,549	1,564	1,619
Narrow fabric	106	160	154	174	185	43	93	112	141	147
Special fabric	709	284	517	570	704	299	361	381	470	497
Made-up articles	318	222	233	283	335	362	1,019	1,211	1,385	1,474
Textile floor coverings	327	197	211	247	373	283	545	620	697	615
Apparel	1,001	600	727	948	1,270	5,767	13,595	15,836	18,583	19,127

Source: U.S. Bureau of the Census, *U.S. General Imports, Schedule A Commodity by Country,* Report FT135, and *U.S. Exports, Schedule E Commodity by Country,* Report FT410, monthly.

No. 1324. Male and Female Clothing—Production: 1980 to 1988

[**In millions of units, except as indicated.** See also *Historical Statistics, Colonial Times to 1970*, series P 242 and 243]

ITEM	1980	1985	1986	1987	1988
MALE CLOTHING					
Men's suits	14.6	10.8	10.6	10.5	11.5
Boys' suits [1]	3.4	2.5	2.0	2.7	3.4
Separate trousers (men's)	125.1	116.5	113.8	110.7	107.2
Separate coats [2]	17.9	20.6	20.8	20.1	17.1
Woven shirts, men's [3] (mil. doz.)	13.1	12.7	12.5	10.9	12.8
Casual slacks	89.0	49.8	42.7	45.1	43.4
Jeans	242.7	210.5	219.3	212.5	189.9
Work shirts (incl. flannels) (mil. doz.)	3.6	3.5	3.4	3.9	4.5
FEMALE CLOTHING					
Blouses [4] and shirts (mil. doz.)	25.6	21.3	21.5	18.5	16.2
Dresses	176	151	133.4	135.3	156.2
Suits [5]	17.6	12.3	10.8	6.5	8.4
Slacks	159.8	160.1	133.4	134.5	148.5
Jeans	98.2	90.1	92.7	88.0	80.3
Skirts	98.9	95.4	98.9	106.9	104.7
Coats	17.0	10.7	11.2	11.5	11.2
Knit outerwear:					
Sweaters (mil. doz.)	4.1	7.6	6.3	5.5	5.4
Sport shirts [6] (mil. doz.)	10.0	9.6	7.9	8.4	9.6

[1] Includes uniform suits and coats. [2] Includes men's and boys' coats. [3] Includes knit and woven dress and woven sport. [4] Includes only woven blouses. [5] Includes pant suits. [6] Includes blouses.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA23A.

No. 1325. Nonrubber Footwear—Summary: 1970 to 1987

[**In millions of pairs, except as indicated.** See *Historical Statistics, Colonial Times to 1970*, series P 260-261, for men's and women's shoes]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987, prel.
Apparent consumption	**801.7**	**727.9**	**793.4**	**734.5**	**729.8**	**829.7**	**911.9**	**1,020.1**	**1,096.4**	**1,168.7**	**1,142.4**
Production, shoes and slippers	562.3	413.1	398.9	386.3	372.0	359.1	339.2	303.2	265.1	240.9	225.9
Percent exported	4	1.1	2.3	3.3	3.0	2.5	2.2	2.9	4.3	5.2	9.3
Value (bil. dol.)	2.9	3.1	4.3	4.7	4.5	4.8	4.8	4.0	4.0	3.6	3.5
Shoes, sandals, playshoes (production) [1]	460.8	339.1	320.6	323.5	302.2	305.1	281.5	243.8	210.4	185.0	170.3
Exports	(NA)	4.6	9.1	12.8	11.2	8.9	7.5	8.9	11.3	12.5	21.0
Imports	241.5	319.4	403.6	361.0	369.0	479.5	580.2	725.8	842.6	940.4	937.5
Percent of total consumption	30.1	43.9	50.9	49.1	50.6	57.8	63.6	71.1	76.9	80.5	82.1

NA Not available. [1] Beginning 1980, includes items not shown separately.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M31A.

No. 1326. Chemicals and Allied Products—Industry Summary: 1972 to 1987

[**In millions of dollars, except as noted**]

ITEM	1972	1975	1977	1980	1982	1983	1984	1985	1986	1987
Employment, total (1,000)	837	842	880	910	873	851	843	826	802	816
Salaries and wages	8,731	11,227	13,839	18,269	20,836	21,411	22,665	23,345	23,711	25,065
Production workers (1,000)	525	510	544	545	509	496	491	476	458	464
Work-hours (million)	1,054	1,001	1,090	1,080	1,004	981	979	951	928	956
Value added	32,414	44,976	56,721	74,384	77,315	86,473	94,728	95,258	100,013	121,242
Value of shipments [1]	57,350	89,721	118,154	162,517	170,737	183,206	198,233	197,311	197,091	230,090
Assets, total	38,812	50,565	65,300	82,112	95,125	102,226	106,331	111,945	(NA)	(NA)
Rents, total	293	453	513	597	644	734	779	767	(NA)	(NA)
Export value [2]	4,183	8,655	10,700	21,589	20,388	20,099	22,626	21,797	22,562	26,090
Import value [2]	1,749	3,098	4,414	6,977	7,572	9,314	11,910	12,708	13,191	14,318

NA Not available. [1] Value of products and services sold by 28 group industries. [2] Source: U.S. International Trade Administration, *U.S. Industrial Outlook*, annual.

Source: Except as noted, U.S. Bureau of the Census, *Census of Manufactures, 1972, 1977, 1982,* and *1987;* and *Annual Survey of Manufactures.*

No. 1327. Rubber—New Supply, Distribution, and Stocks: 1970 to 1988

[**In thousands of long tons.** Natural rubber refers to dry weights of all types, including liquid latex, guayule, etc. Synthetic comprises SBR (including weight of oil content), neoprene, butyl, butadiene-acrylonitrile, polyisobutylene, chlorosulfonated polyethylene, and polysulfide, silicone, acrylic, stereo, and fluorocarbon rubbers. Reclaimed comprises both natural and synthetic]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
New supply	**3,042**	**2,826**	**3,816**	**3,137**	**3,147**	**2,649**	**2,996**	**3,308**	**3,057**	(NA)	(NA)	(NA)
Domestic production [1]	2,398	2,077	2,889	2,294	2,277	1,861	2,030	2,248	1,993	2,140	2,332	2,464
Synthetic	2,197	1,958	2,764	2,209	2,190	1,788	1,956	2,177	1,932	2,093	2,298	2,432
Imports [2]	644	749	927	843	870	788	966	1,060	1,064	(NA)	(NA)	(NA)
Natural	550	658	769	650	700	640	766	793	779	(NA)	(NA)	(NA)
Exports [1]	**324**	**250**	**437**	**494**	**405**	**338**	**304**	**382**	**345**	**390**	(NA)	(NA)
Synthetic	299	226	416	472	389	325	289	376	343	387	(NA)	(NA)
Stocks, end of year [1]	**645**	**528**	**370**	**279**	**299**	**235**	**220**	**248**	**244**	**285**	**282**	**312**

NA Not available. [1] Includes reclaimed and synthetic. [2] Natural, synthetic and reclaimed.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA30A.

No. 1328. Iron and Steel Industry—Summary: 1975 to 1988

[The universe for financial data for 1988 represents companies who produced 75 percent of the reported raw steel production. The financial data represents the operations of the steel segment of companies. Minus sign (–) indicates net loss]

ITEM	Unit	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Steel mill products, apparent supply	Mil. tons [1]	89.0	95.2	105.4	76.4	83.5	98.9	96.4	90.0	95.9	102.7
Net shipments	Mil. tons [1]	80.0	83.9	88.5	61.6	67.6	73.7	73.0	70.3	76.7	83.8
Exports	Mil. tons [1]	3.0	4.1	2.9	1.8	1.2	1.0	1.0	1.0	1.1	2.1
Imports	Mil. tons [1]	12.0	15.5	19.9	16.7	17.1	26.2	24.3	20.7	20.4	20.9
Scrap consumed	Mil. tons [1]	62.8	66.6	68.3	43.7	49.0	51.8	53.2	49.7	51.7	56.3
Scrap inventory	Mil. tons [1]	7.6	6.9	7.1	5.5	5.0	4.4	4.0	3.4	3.8	3.8
Iron and steel products: Exports	Mil. tons [1]	4.1	5.1	3.8	2.6	1.8	1.7	1.6	1.5	1.7	2.8
Imports	Mil. tons [1]	13.9	17.9	22.6	18.8	19.3	29.5	27.6	24.2	23.8	25.7
Capacity by steelmaking process	Mil. net tons	153.1	153.7	154.3	154.0	150.6	135.3	133.6	127.9	112.2	112.0
Revenue	Bil. dol	(NA)	37.7	43.8	28.7	25.0	30.3	28.4	25.0	27.1	32.5
Net income	Bil. dol		.7	1.7	−3.4	−2.2	– (z)	1.8	−4.1	1.0	−.6
Stockholders' equity	Bil. dol		14.5	15.4	11.3	8.2	9.4	6.9	2.4	3.0	2.2
Total assets	Bil. dol		30.8	31.7	27.9	25.5	26.2	24.0	21.0	21.9	(NA)
Capital expenditures	Bil. dol		2.7	2.4	2.3	1.9	1.2	1.6	.9	1.2	1.8
Working capital ratio [2]	Ratio		1.6	1.7	1.5	1.3	1.4	1.3	1.6	1.5	1.7
Inventories	Bil. dol		4.7	5.4	4.0	3.3	4.2	3.5	3.0	3.4	3.8
Average employment	1,000	457	399	391	289	243	236	208	175	163	169
Hours worked	Million	855	758	753	526	475	474	419	356	354	363
Index of output, all employees [3]	1977=100	93	103	112	91	116	131	139	142	152	165
Producer price indexes: [4]											
Iron and steel, total	1982=100	59.3	90.0	98.5	100.0	101.3	105.3	104.8	101.1	104.6	115.7
Steel mill products	1982=100	56.4	86.6	96.6	100.0	100.9	104.7	104.7	99.8	102.3	110.7
Blast and electric furnace products	1982=100	83.6	97.1	99.9	100.0	97.7	97.3	95.6	94.2	97.1	119.6
Iron ore	1982=100	55.4	87.8	96.3	100.0	101.2	101.2	97.5	91.5	84.2	82.8
Scrap, iron and steel	1982=100	105.4	140.9	140.6	100.0	107.4	123.7	112.6	109.6	128.4	177.1
Foundry and forge shop products	1982=100	56.2	89.7	95.4	100.0	101.6	104.4	105.2	105.2	105.7	109.6

NA Not available. Z Less than $50 million. [1] In millions of short tons. [2] Current assets to current liabilities. [3] Index of output per employee hour. [4] Source: U.S. Bureau of Labor Statistics, *Producer Price Indexes*, monthly and annual.

Source: Except as noted, American Iron and Steel Institute, Washington, DC, *Annual Statistical Report*. (Copyright.)

No. 1329. Mill and Foundry Products—Shipments: 1970 to 1988

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Ferrous castings (1,000 sh. tons): [1]										
Gray iron castings [2 3]	13,945	11,799	11,801	8,215	9,247	10,520	8,701	8,620	8,606	8,512
Malleable iron castings [2]	852	450	422	284	291	380	376	320	318	364
Steel castings [2 3]	1,724	1,878	1,743	1,017	729	940	939	826	830	1,015
Nonferrous castings (1,000 sh. tons): [2 3]										
Copper and copper-base alloy	391	285	283	222	249	252	235	239	238	(NA)
Aluminum and aluminum-base alloy	771	845	910	803	949	1,116	1,114	1,138	1,116	(NA)
Zinc and zinc-base alloy	398	243	236	208	245	272	255	248	240	(NA)
Magnesium and magnesium-base alloy	18	13	11	9	13	14	12	20	11	(NA)
Lead and lead-base alloy die [4]	28	23	19	19	28	25	23	26	24	(NA)
Copper-based products (mil. lb.)	**5,624**	**5,820**	**5,955**	**4,774**	**4,827**	**5,283**	**4,657**	**4,588**	**5,074**	(NA)
Brass mill products	2,513	2,467	2,622	2,014	2,116	2,717	2,363	2,318	2,624	(NA)
Copper wire mill products [5]	2,329	2,783	2,767	2,316	2,213	2,062	1,824	1,792	1,922	(NA)
Brass and bronze foundry products	782	570	566	444	498	504	470	478	528	(NA)
Aluminum mill products (mil. lb.) [6]	**7,358**	**10,485**	**10,329**	**9,116**	**10,624**	**11,076**	**11,092**	**11,416**	**12,234**	**12,273**
Plate, sheet, and foil	4,247	6,692	6,829	6,060	7,171	7,195	7,255	7,490	8,245	8,333
Extruded shapes and tubing	1,823	2,329	2,104	1,961	1,980	2,583	2,794	2,944	2,978	2,947
Rolled structural shapes, rod, bar, cable [7]	963	1,213	1,150	862	936	995	787	744	763	737
Powder, flake and paste	205	117	108	80	79	99	107	96	92	90
Forgings and impacts	120	134	139	[8] 152	173	[8] 204	149	144	156	166

NA Not available. [1] Based on a sample of foundries. [2] Includes shipments "for own use." [3] Includes ductile (nodular) iron castings. [4] Excludes lead die castings for battery plates and parts. [5] Copper content. [6] Producers' net shipments consist of total shipments less shipments to other metal mills for further fabrication into other forms of mill products. [7] Includes wire. [8] Includes welded tubes.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M33-2, M33A, M33E, and U.S. Bureau of the Census and U.S. International Trade Administration, *Current Industrial Reports*, series ITA-9008, annual.

No. 1330. Net Shipments of Titanium Mill Products: 1980 to 1988

[Thousands of pounds]

PRODUCT	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total [1]	**54,266**	**50,985**	**36,562**	**31,866**	**45,429**	**45,521**	**41,682**	**44,572**	**49,732**
Sheet and strip	11,869	23,904	18,185	15,205	23,809	24,664	(2)	(2)	(2)
Plate									
Forging and extrusion billet	25,882						21,244	24,181	23,576
Rod and bar	8,472	7,857	4,166	4,316	6,104	6,370	6,022	6,464	7,779
Fastener stock and wire	2,303	1,216	551						
Extrusion	5,740	18,008	13,660	12,345	15,516	14,487	[2] 14,416	[2] 13,927	[2] 18,377
Pipe and tubing									

[1] Net shipments is the sum of mill product shipments plus mill products, less total receipts. [2] Data for sheet and strip, plate, extrusion (other than tubing), pipe and tubing, and other have been combined to avoid disclosing individual company data.

Source: U.S. Bureau of the Census, *Current Industrial Reports, Titanium Ingot, Mill Products, and Castings*, series ITA991 (87)-5, April 1988.

No. 1331. Raw Steel, Pig Iron and Ferroalloys Production: 1970 to 1988

[**In millions, except percent.** See also *Historical Statistics, Colonial Times to 1970,* series P 265-269]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
RAW STEEL (net tons)												
World production	654.2	712.0	824.5	790.4	779.4	710.7	730.9	782.6	792.9	788.9	811.1	659.5
U.S. production	131.5	116.6	136.3	111.8	120.8	74.6	84.6	92.5	88.3	81.6	89.2	99.9
Percent of world	20.1	16.4	16.5	14.2	15.5	10.5	11.6	11.8	11.1	10.3	11.0	11.6
Basic oxygen process	63.3	71.8	83.3	67.6	73.2	45.3	52.1	52.8	51.9	47.9	52.5	58.0
Electric	20.2	22.7	33.9	31.2	34.1	23.2	26.6	31.4	29.9	30.4	34.0	36.8
Open hearth	48.0	22.2	19.1	13.0	13.5	6.1	5.9	8.3	6.4	3.3	2.7	5.1
Carbon	117.4	100.4	116.2	94.7	101.5	64.1	73.8	79.9	76.7	71.4	78.0	86.8
Alloy and stainless	14.1	16.3	20.1	17.1	19.3	10.5	10.8	12.6	11.6	10.2	11.2	13.1
Pig iron and ferroalloys, production (sh. tons) [1]	93.5	79.9	87.0	68.7	73.6	43.3	48.7	51.9	50.4	44.0	48.4	55.7

[1] Beginning 1975, includes blast furnace ferroalloys.

No. 1332. Steel Products—Net Shipments, by Market Classes: 1970 to 1988

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

MARKET CLASS	1970	1975	1980	1983	1984	1985	1986	1987	1988
Total [1]	**90,798**	**79,957**	**83,853**	**67,583**	**73,739**	**73,043**	**70,263**	**76,654**	**83,840**
Automotive	14,475	15,214	12,124	12,320	12,882	12,950	11,889	11,343	12,555
Steel service centers, distributors	16,025	12,700	16,172	16,710	18,364	18,439	17,478	19,840	21,037
Construction, incl. maintenance	8,913	8,119	8,742	7,271	7,522	7,900	7,336	7,681	8,607
Containers, packaging, shipping	7,775	6,053	5,551	4,532	4,352	4,089	4,113	4,372	4,421
Machinery, industrial equipment, tools	5,169	5,173	4,543	2,484	2,886	2,271	2,076	2,277	2,798
Steel for converting and processing	3,443	3,255	4,117	4,403	5,136	5,484	5,635	7,195	8,492
Rail transportation	3,098	3,152	3,155	937	1,438	1,061	798	758	1,146
Contractors' products	4,440	3,927	3,148	2,703	2,631	3,330	3,278	3,337	3,495
Oil and gas industries	3,550	4,171	5,371	1,296	2,003	2,044	1,023	1,469	1,477
Electrical equipment	2,694	2,173	2,441	2,337	2,365	1,869	2,113	2,373	2,459
Appliances, utensils, and cutlery	2,160	1,653	1,725	1,618	1,635	1,466	1,648	1,633	1,638

[1] Includes other classes not shown and nonclassified shipments.

Source of tables 1331 and 1332: American Iron and Steel Institute, Washington, DC, *Annual Statistical Report.* (Copyright.)

No. 1333. Machine Tool Orders and Shipments: 1970 to 1988

[**In millions of dollars.** These data represent total industry volume based on reports from members of the National Machine Tool Builders' Association. The reporting companies produce about 90 percent of the U.S. machine tool output]

YEAR	METAL CUTTING TYPE TOOLS					METAL FORMING TYPE TOOLS				
	New orders (net)		Shipments		Order back-log, end of period	New orders (net)		Shipments		Order back-log, end of period
	Total	Domestic	Total	Domestic		Total	Domestic	Total	Domestic	
1970	651	507	993	827	471	261	227	450	412	235
1975	916	781	1,879	1,548	1,062	361	213	573	485	219
1977	2,202	1,981	1,651	1,470	1,794	793	731	630	560	384
1978	3,373	3,043	2,189	1,960	2,981	973	897	825	729	518
1979	4,495	3,866	2,930	2,606	4,546	1,126	920	947	860	619
1980	3,885	3,496	3,681	3,206	4,750	870	665	1,011	879	385
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

Source: National Machine Tool Builders Association, McLean, VA; data published in U.S. Bureau of Economic Analysis, *Business Statistics, 1979,* for 1970-1978; thereafter, *Survey of Current Business,* monthly.

No. 1334. U.S. Factory Sales of Electronics Shipments: 1975 to 1988

[**In millions of dollars**]

TYPE OF ELECTRONICS	1975	1980	1982	1983	1984	1985	1986	1987	1988
Total value [1]	**42,269**	**100,550**	**126,877**	**138,570**	**196,610**	**204,568**	**214,260**	**223,134**	**247,728**
Computers and industrial electronics	13,457	39,272	53,320	57,265	69,474	70,310	69,942	72,453	80,900
Communications equip. and systems	14,302	30,772	39,130	42,119	49,529	57,095	59,823	60,237	64,235
Electronic components	9,286	25,571	29,561	33,856	43,306	39,457	38,823	41,795	49,409
Consumer electronics (excl. imports)	5,224	4,935	4,866	5,330	5,999	5,240	5,231	4,383	4,777

[1] Beginning 1984, includes other products and related services not shown separately.

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

No. 1335. Manufacturing Technology—Percent of Establishments Using and Planning to Use: 1988

Establishment characteristic	Establishments using selected technologies											Planning to use within 2 years				
	Design and engineering		Fabrication/ machining [2]		Automated material handling	Automated sensor based inspection or testing	Communication and control					Design and engineering	Fabrication, machining and assembly	Automated material handling	Automated sensor based inspection or testing	Communication and control
	Computer aided design (CAD) or computer aided engineering	Other computer aided design (CAD) [1]	Numerically controlled machines	Other numerically controlled machines [3]			Programmable controllers	Computer control on factory floor	Local area network: For technical data	Local area network: For factory use	Intercompany computer network					
Major SIC [4] group:																
34, Fabricated metal products	26.8	19.6	32.2	22.0	1.8	15.0	26.8	21.1	13.4	11.6	14.9	20.4	14.7	1.3	6.5	38.8
35, Industrial mach. and equip	43.2	32.6	56.7	25.6	5.3	18.4	33.9	28.1	18.5	16.3	12.4	30.8	14.9	2.6	8.2	40.3
36, Electronic and other	48.5	28.8	34.9	39.4	6.7	38.4	38.0	34.5	24.9	21.1	16.2	26.6	21.9	3.3	12.0	49.5
37, Transportation equip	39.9	26.6	37.3	39.5	8.0	27.1	32.0	27.4	22.0	18.7	21.7	25.8	20.2	3.5	7.1	36.3
38, Instruments and related prod	48.9	27.1	33.6	28.1	5.5	27.6	32.7	32.3	25.8	21.3	13.8	29.7	19.4	2.5	12.0	45.4
Employment size:																
20 to 99	29.8	21.5	35.9	14.0	1.7	13.8	22.5	18.9	13.1	11.0	9.7	23.3	11.4	1.2	6.2	36.2
100 to 499	54.4	31.7	50.0	43.5	5.4	31.6	48.1	41.0	25.9	22.9	22.7	32.6	26.9	3.8	13.4	53.0
500 and over	82.6	69.1	69.8	135.8	37.5	85.8	77.8	68.0	58.6	50.7	41.8	32.6	40.7	10.3	16.0	55.9
Age of plant (years):																
Less than 5	44.4	28.9	37.3	22.9	3.7	24.7	29.5	27.3	21.3	18.0	11.9	32.0	19.5	1.7	13.4	50.3
5 to 15	42.6	29.5	42.3	29.1	4.4	24.8	34.5	29.8	21.3	17.4	16.2	28.8	19.9	3.3	9.9	48.1
16 to 30	41.3	29.0	48.0	30.0	4.7	23.7	34.9	29.0	19.4	17.1	16.6	27.5	17.6	2.2	7.9	45.1
Over 30	43.1	29.3	50.0	39.8	7.3	24.9	39.0	32.1	20.7	18.7	18.0	27.0	17.0	2.6	7.9	38.5
Manufacturing process:																
Fabrication/machining	31.1	30.8	53.5	20.8	2.4	20.6	31.2	24.7	13.7	12.2	14.6	24.1	15.6	1.6	9.9	45.1
Assembly	49.9	23.9	15.1	33.1	7.4	30.5	30.5	32.6	26.2	22.5	18.3	22.9	19.5	3.9	11.0	45.7
Both	47.2	31.9	55.0	35.8	5.7	25.2	38.7	32.1	21.8	18.8	16.6	33.3	20.1	2.7	9.0	46.0
Neither	18.5	14.8	9.6	13.8	2.7	14.8	24.6	17.4	15.9	12.1	11.9	13.7	10.9	1.3	6.0	36.3
Market for most products:																
Consumer	27.6	18.5	23.9	35.2	4.6	21.2	34.5	27.1	16.1	17.2	17.5	21.7	21.3	3.0	10.6	42.3
Commercial	49.1	32.5	41.7	33.4	6.5	25.9	34.3	33.0	24.4	22.0	16.4	32.1	18.7	2.8	9.8	43.5
Industrial	42.8	28.4	49.5	24.8	3.9	21.3	34.5	27.6	19.1	15.9	13.6	29.9	16.4	2.2	8.5	45.8
Transportation	45.7	30.2	47.9	52.0	8.3	35.4	44.3	34.5	24.8	20.4	32.6	34.1	29.9	3.6	11.9	57.0
Government	57.0	47.9	62.0	41.6	7.9	42.2	39.4	41.0	28.8	22.8	13.9	29.0	20.1	3.7	13.5	51.9
Other	36.6	27.6	36.9	25.4	4.5	14.6	24.5	24.0	16.7	13.3	12.2	16.6	12.4	1.5	5.4	31.6
Market price for most products:																
Less than $5	28.6	17.1	29.0	34.8	2.2	27.0	39.3	26.4	16.7	15.1	21.5	25.4	22.1	1.7	13.4	47.6
$5 to $100	33.3	26.1	45.1	37.5	3.5	25.6	35.7	29.9	16.4	17.7	19.0	28.2	22.1	3.7	11.9	47.1
$101 to $1,000	41.0	28.9	51.5	27.9	4.5	24.9	31.6	29.6	20.0	16.1	13.7	27.6	18.5	1.9	8.0	47.0
$1,001 to $2,000	50.2	29.8	49.2	19.6	6.0	25.8	32.1	30.5	22.1	18.5	14.1	29.9	16.9	3.6	10.5	43.3
$2,001 to $10,000	50.9	31.4	45.0	22.0	4.9	21.2	28.0	30.7	22.0	17.4	11.8	30.7	13.5	2.0	6.7	41.1
Over $10,000	61.8	39.2	48.8	32.3	9.8	22.2	39.8	31.9	29.9	21.8	14.4	33.5	16.0	3.0	6.0	46.5

[1] Includes CAD output used to control manufacturing machines; and digital representation of CAD output used in procurement. [2] Includes assembly. [3] Includes flexible manufacturing cells or systems; materials working lasers; pick and place robots; and other robots. [4] Standard Industrial Classification; see text, section 13.

Source: U.S. Bureau of the Census, *Current Industrial Reports, Manufacturing Technology, 1988.*

No. 1336. Robots, Accessories, and Components—Units Shipped and Value: 1985 to 1988

[Based on a survey of all known manufacturers of robots, robot accessories, and components. Shipment value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and returns. A robot is a reprogrammable multi-functional manipulator designed to move materials, parts, tools, or specialized devices through variable programmed motions for the performance of a variety of tasks. Robots are presently classified in the Standard Industrial Classification (SIC) based on their primary industrial function]

ITEM	UNITS SHIPPED (number)			VALUE OF SHIPMENTS ($1,000)		
	1985	1987	1988	1985	1987	1988
Robots, robot accessories, and components	(x)	(x)	(x)	**345,239**	**284,382**	**250,136**
Robots, complete	5,466	6,037	4,557	275,721	219,790	175,373
Servo-controlled robots	2,978	2,677	2,026	254,926	203,020	148,960
Point-to-point type:						
Welding, soldering, brazing, and/or cutting (welding type)	839	675	303	74,646	64,598	32,273
Foundry, forging, and/or heat treating [1]	65	28	31	4,530	3,412	3,232
Assembly for non-electronic and electronic products	547	535	296	17,761	19,573	22,099
Material handling and/or parts transfer	463	726	742	44,863	48,314	49,740
Continuous-path type:						
Welding, soldering, brazing, and/or cutting	287	110	79	22,352	9,020	3,694
Spraying, painting, gluing, and/or sealing	339	297	247	41,416	41,348	27,308
Fettling, grinding, polishing, and/or deburring [2]	438	306	328	49,358	16,755	10,614
Nonservo-controlled robots	460	215	336	18,015	8,153	17,077
Other robots	2,028	3,145	2,195	2,780	8,617	9,336
Robot accessories, subassemblies, etc	(x)	(x)	(x)	69,518	64,592	74,763
Miscellaneous receipts	(x)	(x)	(x)	9,161	8,437	5,194

X Not applicable. [1] Combined with inspection, measuring, guaging, and/or sorting, machine tool loading and unloading robots. [2] Includes other continuous-path type, not elsewhere classified.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA 35X(88-1).

No. 1337. Selected Electronic and Associated Products—Value of Shipments, by Class of Product: 1980 to 1987

[**In millions of dollars.** Based on a survey of all establishments with 20 or more employees for selected industries. Includes all known manufacturers of telephone and telegraph apparatus, communications systems and equipment, and electronic equipment. See source for details. N.e.c. means not elsewhere classified]

Product code	PRODUCT DESCRIPTION	1980	1981	1982	1983	1984	1985	1986	1987
36611	Telephone switching and switchboard equipment	4,254	4,363	4,448	4,651	5,871	7,714	7,180	7,481
36631	Communication systems and equipments [1]	5,139	5,722	6,854	7,557	9,259	10,708	11,217	11,363
36632	Broadcast, studio, related electronic equipment	1,187	1,446	1,544	1,464	1,476	1,562	1,554	1,835
36691	Alarm systems	1,193	761	834	880	1,045	1,114	1,028	1,043
38122	Search and detection systems and navigation and guidance system and equipment	12,139	15,040	17,733	19,982	22,823	27,057	29,504	29,446
36741	Integrated microcircuits (semiconductor networks)	6,606	6,976	7,322	8,903	13,324	10,910	11,006	12,396
36749	Other semiconductor devices	1,393	2,079	2,317	2,411	2,586	2,483	2,254	2,321
36750	Capacitors for electronic applications	1,184	1,277	1,209	1,288	1,604	1,327	1,210	1,187
36720	Printed circuit boards	9,619	1,664	2,147	2,553	3,585	3,490	3,376	3,761
36798	Complex components		2,320	2,502	2,635	3,418	3,310	3,416	4,357
36799	All other electronic components, n.e.c		4,302	3,973	4,277	5,692	5,022	4,386	4,351
38440	X-ray and other irradiation equipment	800	1,004	1,342	1,544	1,758	1,675	1,606	1,597
38450	Electromedical equipment	1,613	1,937	2,419	2,557	2,675	2,720	2,753	3,216

[1] Excludes broadcast.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, MA-36A; MA-36D; MA-36Q; and MA-36R.

No. 1338. Computers and Office and Accounting Machines—Value of Shipments: 1975 to 1988

[**In millions of dollars.** Based on a survey of all known producers of these products except the very small firms (generally less than 10 employees). Includes approximately 740 companies. For details, see source]

Product code	PRODUCT DESCRIPTION	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
35711	Electronic computers	2,123	8,077	10,786	11,356	12,702	17,063	19,293	20,026	23,213	26,890
(1)	Peripheral equipment	3,732	11,730	14,015	14,853	16,749	19,299	18,253	19,898	19,685	21,437
(2)	Parts and attachments [3]	1,622	4,513	4,298	7,008	7,519	9,992	9,128	8,897	9,473	10,664
35781	Accounting machines and cash registers	259	709	767	901	1,026	1,129	903	879	943	852
35793	Duplicating machines	103	199	193	156	170	188	157	169	126	134
35795	Mailing, letter-handling, etc	172	361	405	387	508	562	596	769	801	783

[1] 35721, 35751, 35771, and 36950. [2] 35712, 35722, 35752, and 35772. [3] For electronic computers and peripheral equipment, produced by complete machine manufactures.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA35R(85)-1.

No. 1339. Computer Shipments and Revenues: 1984 to 1988

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

ITEM	Unit	1984	1985	1986	1987	1988
Computer outlays, total [1]	Bil. dol.	42.2	45.4	46.5	49.5	62.6
Percent change	Percent	(NA)	7.6	2.4	6.3	26.6
Mainframe computers, units shipped [2]	1,000	3.5	3.4	3.4	3.7	3.9
Revenues	Bil. dol.	12.8	12.6	12.8	13.9	14.4
Super minicomputers, units shipped [3]	1,000	6.2	7.3	7.9	7.6	10.4
Revenues	Bil. dol.	3.6	3.9	4.4	4.4	5.2
Departmental computers, units shipped [4]	1,000	92.7	110.6	116.6	104.1	103.7
Revenues	Bil. dol.	7.4	8.3	8.2	6.9	7.3
Multiuser microcomputers [5]	1,000	198.4	211.2	215.5	238.7	244.6
Revenues	Bil. dol.	3.7	3.9	4.1	4.2	4.2
Engineering and technical systems shipped [6]	1,000	8.6	20.5	31.1	57.6	84.2
Revenues	Bil. dol.	.4	.7	.9	1.5	2.2
Personal computers shipped [7]	1,000	7.8	6.1	6.8	8.7	10.0
Revenues	Bil. dol.	14.3	16.0	16.2	18.5	29.2
Local area network:						
Number of connections [8]	1,000	340.0	690.0	1,100.0	1,802.0	3,700.0
Revenue	Mil. dol.	326.0	593.0	913.0	1,535.0	2,820.0

NA Not available. [1] Shipments into the U.S. market from any manufacturing country. [2] Units costing more than $1.5 million. [3] Units costing $250,000 to $1.5 million. [4] Units costing $25,000 to $250,000. [5] Units priced below $25,000. [6] Single-user systems for technical and engineering applications, excluding CAD/CAM workstations from turnkey vendors. [7] Units costing less than $10,000. [8] Counts connections to terminals, hosts, PC's, and LAN interconnects.

Source: Dataquest Inc., San Jose, CA, *Consolidated Data Base*, April 1989.

No. 1340. Domestic Personal Computer Sales and Use: 1981 to 1988

[In mil. units, except as indicated]

ITEM	1981	1982	1983	1984	1985	1986	1987	1988
Personal computers (PC's) sold	1.11	3.53	6.90	7.61	6.75	7.04	8.34	9.50
Value (mil. dol.)	3,143	5,925	9,779	14,269	17,077	18,888	23,458	27,700
Personal computers in use, total [1]	**2.12**	**5.53**	**12.17**	**19.18**	**25.27**	**31.15**	**37.84**	**45.08**
Workplace	1.24	2.26	4.00	6.44	9.26	12.22	15.91	20.33
Business: 1-49 employees	.30	.55	.99	1.71	2.57	3.47	4.55	5.84
50-999 employees	.24	.44	.77	1.26	1.82	2.46	3.25	4.23
Over 999 employees	.47	.88	1.61	2.65	3.73	4.82	6.14	7.73
Government	.24	.40	.62	.82	1.14	1.47	1.97	2.53
Education	.13	.27	.54	.78	1.15	1.55	1.96	2.36
Kindergarten through grade 12	.10	.21	.40	.59	.87	1.17	1.48	1.76
College/university	.03	.06	.14	.20	.28	.38	.49	.60
Homes	.75	3.00	7.64	11.95	14.86	17.38	19.97	22.38
Personal computer-related equipment in use:								
Impact printers	.72	1.90	4.25	8.70	12.80	17.21	22.49	27.30
Nonimpact printers	.02	.10	.31	.68	1.19	1.83	2.76	3.42
Plotters	.02	.05	.12	.22	.39	.61	.88	1.07
Monochrome monitors	.97	2.24	4.68	7.00	9.74	12.56	15.59	18.65
Color monitors	.13	.48	1.29	2.98	5.01	7.73	11.68	13.97
Modems	.18	.53	1.41	3.00	4.66	6.55	8.91	10.91
Add-in-boards [2]	2.41	5.68	11.43	19.36	29.62	41.22	55.17	65.26
PC hardware maintenance (mil. dol.) [3]	76	166	279	568	951	1,061	1,750	2,298

[1] Excluding multiuser personal computers. [2] Excluding add-in modem boards. [3] Excluding education and home.

Source: Future Computing/Datapro, Inc., Delran, NJ, unpublished data.

No. 1341. Telecommunications Revenue: 1981 to 1987

[In millions of dollars]

ITEM	1981	1982	1983	1984	1985	1986	1987
Total	**105,839**	**118,932**	**126,770**	**124,860**	**135,701**	**143,344**	**153,830**
Public markets	98,229	110,644	117,696	114,266	124,357	131,361	140,838
Transmission equipment [1]	1,587	1,768	2,188	2,425	2,712	2,991	3,072
Switching equipment [2]	333	809	1,286	2,218	3,221	3,373	3,438
Public services [3]	96,309	108,047	114,095	109,154	117,622	123,760	131,905
Cellular mobile radio [4]	-	-	127	469	802	1,238	2,422
On-premises markets	7,610	8,288	9,074	10,595	11,344	11,984	12,992
Terminal equipment [5]	1,567	1,683	1,857	2,216	2,571	2,676	2,865
Data communications equipment [6]	904	1,121	1,610	2,194	2,493	2,841	2,913
Local area network connections	28	62	150	326	593	913	1,535
Switching equipment [7]	6,280	6,657	6,766	7,443	7,298	7,202	7,009
Attached network functions [8]	131	164	232	291	463	559	763

- Represents zero. [1] Includes multiplex, carrier, microwave radio, and satellite earth station equipment. [2] Includes central office, OCC, and private packet switching equipment. [3] Includes local and long distance telephone services, and public data network services. [4] Includes cellular telephone equipment and cellular network services. [5] Includes single-line telephone equipment and integrated V/D work-stations, and facsimile equipment. [6] Includes data network control systems, and modem, statistical and T-1 multiplexer, front-end processor, and DSU/CSU equipment. [7] Includes data PBX systems, key, PBX, and centrex telephone systems, and automatic call distributors. [8] Includes call accounting equipment, and voice messaging and video teleconferencing systems.

Source: Dataquest Inc., San Jose, CA, *Consolidated Data Base*, April 1988.

No. 1342. Semiconductors and Related Devices: 1980 to 1988

[In million of dollars, except percent. Semiconductors and related devices represent SIC 3674]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988
SEMICONDUCTORS [1]								
Sales	6,053	6,970	9,092	13,006	9,420	10,844	12,858	15,844
Capital expenditures (North America)	1,438	1,210	1,452	3,039	2,072	1,438	1,911	2,569
Percent of sales	22.6	17.4	16.0	23.4	22.0	13.3	14.9	16.2
Japanese capital expenditures as a percent of revenues	17.2	16.5	21.5	43.0	40.0	16.0	16.0	21.7
R&D (North America)	423	580	757	1,007	1,159	1,250	1,448	1,661
SEMICONDUCTOR IMPORTS [2]								
Imports, total	**2,223**	**3,895**	**4,523**	**6,699**	**4,870**	**5,044**	**6,656**	**9,502**
Integrated circuits, total	1,909	3,461	4,075	6,055	4,365	4,459	6,000	8,683
Integrated circuits, monolithic	1,790	3,365	3,977	5,960	4,237	4,205	5,556	8,183
Linear (367410 10)	224	388	482	715	576	598	646	799
Bipolar, transistor-transistor logic (367410 20)	351	513	715	1,055	653	712	774	893
Bipolar, emitter coupled logic (367410 30)	60	71	70	114	60	70	112	142
Not bipolar, metal oxide silicon (367410 40)	932	2,085	2,368	3,619	2,598	2,416	3,546	5,701
Integrated circuits, NSPF [3] (367410 50)	224	309	343	457	350	409	478	648
Integrated circuits, other than monolithic (367410 60)	119	96	98	95	128	254	444	500
Transistors	193	260	248	332	242	279	318	402
Less than 1 watt (367420 20)	116	125	114	136	90	111	127	165
With 1 watt or greater (367420 40)	77	135	134	196	152	168	191	237
Diodes and rectifiers	121	174	200	312	263	306	338	417
Diodes and rectifiers, photo sensitive (36749c 10)	9	22	24	39	39	47	42	41
Diodes, zener (36749c 20)	11	15	19	36	29	34	39	50
Diodes and rectifiers, microwave (36749c 30)	1	3	3	3	3	5	8	10
Thyristors (36749c 40)	27	39	46	60	42	44	47	51
Diodes and rectifiers, NSPF [3] (36749c 50)	73	95	108	174	150	176	202	265
SEMICONDUCTORS AND RELATED DEVICES								
Shipments	9,455	11,215	12,801	17,819	15,253	14,930	17,779	(NA)
Integrated microcircuits	6,768	7,298	8,647	13,484	10,872	10,925	12,890	(NA)
Transistors	607	596	602	797	681	697	733	(NA)
Diodes and rectifiers	514	506	572	686	700	672	664	(NA)
Semiconductor devices, n.e.c. [4]	1,398	2,335	2,484	2,543	2,569	2,303	2,578	(NA)
Semiconductors and related devices, n.s.k. [5]	168	480	496	309	431	332	914	(NA)
Assets, beginning of year	4,014	6,953	8,400	9,789	12,200	(NA)	(NA)	(NA)
New capital expenditures	1,596	1,614	1,832	2,818	2,832	2,220	1,930	(NA)
Used capital expenditures	40	37	65	96	390	66	(NA)	(NA)
Retirements	230	423	562	543	896	(NA)	(NA)	(NA)
Assets, end of year	5,420	8,181	9,735	12,159	14,526	(NA)	(NA)	(NA)
Depreciation charges	601	841	1,014	1,309	1,512	(NA)	(NA)	(NA)
Rental payments	74	121	147	173	184	(NA)	(NA)	(NA)

NA Not available. [1] Source: Dataquest Inc., San Jose, CA, unpublished data. [2] Imports for consumption by SIC group. Includes imports not shown separately. [3] NSPF=Not specifically provided for. [4] N.e.c.=Not elsewhere classified. [5] N.s.k.=Not specified by kind.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports,* series MA-36Q; *U.S. Imports, FT 210 SIC-Based Products,* annual; and *Annual Survey of Manufacturers.*

No. 1343. Microcontrollers and Chip Shipments: 1982 to 1988

ITEM	Unit	1982	1983	1984	1985	1986	1987	1988
Microcontrollers, worldwide:								
Units, number	Mil. units	212.4	262.6	357.0	340.8	493.9	729.2	948.3
8-bit	Mil. units	54.1	90.6	163.5	163.6	218.0	333.5	477.8
4-bit	Mil. units	158.2	171.9	193.4	177.0	271.9	392.3	465.0
16-bit	Mil. units	.05	.09	.06	.23	.40	3.40	5.50
Revenue	Mil. dol	427.0	526.3	1,406.7	1,114.3	1,392.2	2,072.1	2,706.3
8-bit	Mil. dol	173.2	267.3	930.3	728.0	830.6	1,250.6	1,724.9
4-bit	Mil. dol	253.0	257.9	475.8	382.3	554.7	792.4	934.6
16-bit	Mil. dol	.9	1.1	.7	4.0	7.0	29.1	46.8
32-bit processor:								
Units, number:								
RISC [1]	Mil. units	(NA)	(NA)	(NA)	.005	.017	.070	.220
CISC [2]	Mil. units	(NA)	(NA)	.010	.095	.453	1.740	4.945
Revenue	Mil. dol	(NA)	(NA)	3.0	19.0	88.0	300.6	888.6
RISC [1]	Mil. dol	(NA)	(NA)	(NA)	3.0	4.0	12.2	38.5
CISC [2]	Mil. dol	(NA)	(NA)	3.0	16.0	84.0	288.4	850.1
256K DRAM [3] chips	Mil. units	1.0	18.0	200.0	237.9	620.0	775.0	947.1
Revenue	Mil. dol	-	85	695	868	1,432	1,829	2,898
Price	Dollars	100.00	50.00	25.00	3.65	2.31	2.36	3.06
1-Megabit DRAM chips	Mil. units	(NA)	(NA)	(NA)	-	4.3	42.6	211.6
Revenue	Mil dol	(NA)	(NA)	(NA)	5	134	636	3,576
Price	Dollars	(NA)	(NA)	(NA)	162.50	31.16	14.93	16.90

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

Source: Dataquest, Inc., San Jose, CA, unpublished data.

No. 1344. Computers and Industrial Electronic Equipment—Shipments, by Type: 1975 to 1988

[In millions of dollars]

TYPE OF EQUIPMENT	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total [1]	**13,457**	**32,589**	**39,272**	**47,655**	**53,320**	**57,265**	**69,474**	**70,310**	**69,942**	**72,453**	**80,900**
Computer and peripheral equipment	7,478	19,666	24,320	29,099	33,286	37,131	46,486	47,629	47,031	48,898	55,000
Computers	2,123	6,908	8,077	10,786	11,356	12,702	17,063	19,292	20,026	23,261	26,425
Peripheral equipment [1]	3,732	8,976	11,730	14,015	14,922	16,910	19,430	19,209	18,108	17,513	19,675
Auxiliary storage equipment	937	3,090	3,956	4,724	4,067	4,318	5,424	5,494	5,371	5,011	5,925
Serial access storage	387	667	743	777	812	772	891	1,111	879	761	775
Magnetic storage media:											
Disks: Rigid	(2)	141	217	235	739	1,054	1,017	822	654	547	615
Flexible (floppy)	(2)	138	212	277	458	690	562	454	418	413	465
Computer tape, cassette, etc.	260	53	115	108	80	204	251	395	634	541	605
Computer terminals:											
General purpose:											
Single CRT	413	1,303	2,035	1,892	2,138	2,080	1,985	1,052	764	595	625
Teleprinters	277	360	491	638	605	573	441	214	632	477	500
Special purpose, including graphic	103	267	325	553	707	1,019	1,194	930	1,046	1,049	1,090
Parts for electronic computers	479	1,586	1,503	1,652	3,201	3,586	5,469	4,509	4,810	3,620	3,875
Parts for peripheral equipment	1,144	2,196	3,010	2,646	3,807	3,933	4,523	4,619	4,087	4,504	5,025
Controlling, processing equipment	2,492	4,856	5,627	6,717	6,523	6,186	7,294	7,410	7,677	7,675	8,195
Testing, measuring equipment	1,552	3,125	3,584	4,144	4,695	5,200	6,279	6,008	5,736	5,728	6,530
Medical electronic equipment	829	2,481	2,703	3,380	4,402	4,845	5,148	5,028	5,111	5,391	5,830
Nuclear electronic equipment	292	419	384	447	546	490	480	519	560	548	575

[1] Includes other types of equipment not shown separately. [2] Combined with "Computer tape, cassette, cartridge, drum, etc."

No. 1345. Factory Sales of Consumer Electronic Products, by Type: 1979 to 1988

[In millions of dollars. Includes imports]

PRODUCT	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	**9,359**	**10,891**	**12,438**	**12,499**	**14,560**	**17,594**	**19,472**	**21,472**	**21,863**	**22,737**
Color TV receivers	3,685	4,210	4,349	4,253	5,002	5,538	5,565	6,040	6,303	6,600
Car audio	[1] 623	1,368	2,000	2,100	1,900	2,500	2,761	3,135	3,523	3,937
Video cassette recorders	389	621	1,127	1,303	2,162	3,585	4,738	4,011	3,442	3,132
Camcorders								1,247	1,651	1,970
Separate audio components	1,178	1,424	1,363	1,181	1,268	913	1,132	1,358	1,715	1,854
Portable audio tape equipment	[2] 1,739	1,403	1,157	971	1,102	1,191	1,140	1,389	1,469	1,547
Audio systems	[3] 748	[3] 809	720	573	630	976	1,372	1,370	1,048	1,225
Blank video cassettes	(NA)	(NA)	(NA)	357	580	770	1,055	1,235	1,006	936
Projection TV	(NA)	(NA)	287	236	268	385	488	529	527	529
Home radios	436	468	501	530	565	661	379	408	409	377
Blank audio cassettes	(NA)	(NA)	227	202	234	256	263	292	364	354
Monochrome TV receivers	561	588	505	507	465	419	328	373	341	236
Video disc players	(NA)	(NA)	55	54	81	45	23	26	30	40
Color cameras	(NA)	(NA)	147	232	303	355	228	59	35	(NA)

NA Not available. [1] Reflects factory installed products only. [2] Includes some tape equipment other than portable. [3] Includes console phonographs.

Source of tables 1344 and 1345: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual.

No. 1346. Machinery (Except Electrical)—Industry Summary: 1977 to 1987

SIC [1] code	INDUSTRY	1977			1982			1987			
		Employees		Value of shipments (mil. dol.)	Employees		Value of shipments (mil. dol.)	Employees		Value of shipments (mil. dol.)	New capital expenditures (mil. dol.)
		Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)		
35	**Total**	**2,083**	**30,558**	**122,188**	**2,189**	**46,911**	**187,896**	**1,853**	**50,750**	**220,098**	**6,968**
351	Engines and turbines	130	2,236	10,426	112	2,850	13,040	86	2,887	14,427	609
352	Farm and garden machinery	151	2,197	11,857	114	2,386	13,108	82	1,924	11,508	310
353	Constr. and related machinery	333	5,097	23,682	326	7,332	32,038	188	5,260	24,574	598
354	Metalworking machinery	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	270	7,295	22,070	720
355	Special industry machinery	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	170	4,596	17,211	476
356	General industrial machinery	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	238	6,130	24,011	670
357	Office and comput. machines	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	334	10,865	62,432	2,212
358	Refrig. and service machinery	192	2,516	12,416	172	3,344	16,450	192	4,796	23,824	576
359	Miscellaneous machinery, except electrical	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	293	6,997	20,041	797

NA Not available. [1] Standard Industrial Classification.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1987.*

No. 1347. Electric and Electronic Equipment—Industry Summary: 1977 to 1987

SIC [1] code	Industry	1977 Employees (1,000)	1977 Value of shipments (mil. dol.)	1982 Employees (1,000)	1982 Value of shipments (mil. dol.)	1987 Employees Number (1,000)	1987 Employees Payroll (mil. dol.)	1987 Value of shipments (mil. dol.)	1987 New capital expenditures (mil. dol.)	1987 Value added by manufacture (mil. dol.)	1987 Cost of material (mil. dol.)
36	**Total**	(NA)	(NA)	(NA)	(NA)	**1,570**	**38,737**	**172,137**	**6,972**	**95,958**	**76,432**
361	Electric distributing equipment	(NA)	(NA)	(NA)	(NA)	77	1,778	8,268	187	4,577	3,622
362	Electrical industrial apparatus	(NA)	(NA)	(NA)	(NA)	167	3,921	15,542	462	9,020	6,518
363	Household appliances	(NA)	(NA)	(NA)	(NA)	117	2,634	16,488	436	7,444	9,176
364	Electric lighting and wiring equipment	165	8,357	159	12,048	170	3,775	17,996	481	10,314	7,783
365	Household audio and video equipment	(NA)	(NA)	(NA)	(NA)	44	844	7,771	227	3,004	4,815
366	Communication equipment	(NA)	(NA)	(NA)	(NA)	256	7,398	33,820	1,227	19,804	14,060
367	Electronic components and accessories	(NA)	(NA)	(NA)	(NA)	551	13,687	50,313	3,114	30,635	19,795
369	Miscellaneous electrical equipment and supplies	(NA)	(NA)	(NA)	(NA)	188	4,700	21,939	838	11,160	10,663

NA Not available. [1] Standard Industrial Classification.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1987,* and *Annual Survey of Manufactures.*

No. 1348. Electronic Computing Equipment Industry—Summary: 1987

[In millions of dollars, except as indicated. N.e.c.=Not elsewhere classified]

Item	Computer and office equipment (357)	Electronic computers (3571)	Computer storage devices (3572)	Computer terminals (3575)	Computer peripheral equipment, n.e.c. (3577)	Calculating and accounting equipment (3578)	Office machines, n.e.c. (3579)
Establishments, total (number)	2,134	1,060	105	110	550	101	208
With 20 employees or more (number)	1,010	470	64	60	253	57	106
Employees (1,000)	333.8	150.0	42.4	14.1	85.6	12.8	28.9
Payroll	10,865	4,883	1,423	419	2,919	379	842
Production workers (1,000)	123.2	54.0	14.4	5.2	30.2	5.8	13.6
Hours (million)	249.8	104.3	30.0	10.0	66.3	12.5	26.7
Wages	2,600	1,150	324	117	622	120	268
Value added	33,167	18,233	3,258	983	7,986	845	1,860
Cost of materials	29,346	15,364	3,189	711	7,992	612	1,479
Value of shipments	62,432	33,635	6,323	1,734	15,968	1,457	3,317
New capital expenditures	2,212	1,218	337	54	444	39	121

Source: U.S. Bureau of the Census, *1987 Census of Manufactures,* Preliminary Report.

No. 1349. Electronic Components and Accessories Industry—Summary: 1977 to 1987

[In millions of dollars, except as indicated. Included in SIC 367. See headnote, table 1348]

Item	1977	1979	1980	1981	1982	1983	1984	1985	1986	1987 [1]
Employment, total (1,000)	373.5	467.6	498.6	503.5	515.8	515.0	582.3	558.1	517.0	551.0
Salaries and wages	4,557	6,461	7,780	8,664	9,770	10,605	12,648	12,352	12,306	13,687
Production workers (1,000)	257.9	324.5	336.6	325.5	324.8	329.0	374.7	345.2	313.0	332.0
Work-hours (million)	508.7	635.2	650.1	631.3	626.3	642.4	736.7	667.0	613.0	659.3
Workers wages	2,457	3,484	4,050	4,366	4,645	5,015	6,018	5,808	5,540	6,159
Value added	9,260	14,213	16,902	18,537	21,214	23,610	30,427	26,368	25,851	30,635
Supplemental labor cost	811	1,232	1,497	1,723	2,065	2,294	2,752	2,639	2,608	(NA)
Cost of materials	6,390	9,206	11,434	12,159	13,584	13,912	18,190	16,414	15,843	19,795
Value of shipments	15,390	22,708	27,647	30,421	34,517	37,194	47,983	42,921	41,985	50,313
New capital expenditures	783	1,591	2,616	2,459	3,013	2,897	4,410	4,495	3,419	3,114
Inventories	2,773	4,376	5,388	5,745	6,436	6,841	8,037	7,621	7,227	(NA)
Assets, total	6,026	8,142	10,615	12,567	15,489	17,609	21,699	25,123	(NA)	(NA)
Rents, total	107	145	189	247	284	315	373	391	(NA)	(NA)
Ratio of—										
Cost of materials to value of shipments	.415	.405	.414	.400	.394	.374	.379	.382	.377	.393
Value added to value of shipments	.602	.627	.611	.609	.615	.635	.634	.614	.616	.609
Value added to work-hours	18.20	22.38	26.00	29.36	33.87	36.75	41.30	39.53	42.17	46.47

NA Not available. [1] Due to 1987 SIC revisions, prior years data are not comparable to 1987 data.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977, 1982,* and *1987,* and *Annual Survey of Manufactures.*

No. 1350. Factory Sales of Electronic Components, by Type: 1975 to 1988

[In millions of dollars]

TYPE OF COMPONENT	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	**9,286**	**17,076**	**21,334**	**25,571**	**28,784**	**29,561**	**33,856**	**43,306**	**39,457**	**38,823**	**41,795**	**49,409**
Solid state products	2,580	5,511	7,201	9,089	10,309	10,729	12,570	17,032	14,650	14,408	15,642	19,500
Parts	2,593	4,313	6,030	7,080	7,647	7,403	8,318	10,155	9,329	9,169	9,585	10,376
Connectors	734	1,286	1,674	2,018	2,203	2,148	2,586	3,200	2,901	3,026	3,190	3,475
Wire and cable	(1)	(1)	789	1,066	1,176	1,304	1,386	1,613	1,475	1,409	1,496	1,630
Capacitors	470	897	1,050	1,299	1,297	1,169	1,277	1,619	1,198	1,217	1,326	1,524
Coils and transformers	489	654	776	852	952	842	966	1,055	1,179	1,042	1,015	1,085
Resistors [2]	447	504	647	653	636	583	638	698	587	586	658	682
Relays	(NA)	177	199	243	245	282	296	552	631	588	543	555
Switches	141	303	366	349	377	446	512	548	577	537	568	590
Quartz devices	209	227	201	277	413	266	257	340	338	319	354	375
Filters	71	99	126	121	124	142	167	232	178	210	196	210
Passive networks	32	82	111	118	139	138	153	226	193	159	168	181
TV and FM antennas, parts	(1)	84	91	84	85	83	80	72	72	76	71	69
Electron tubes	1,071	1,426	1,554	1,744	1,959	1,885	2,049	2,137	2,055	2,125	2,176	2,263
Receiving tubes	152	134	105	91	100	76	62	36	32	30	28	25
Power, special purpose	420	585	682	738	858	925	1,007	1,059	1,061	1,067	1,119	1,145
TV tubes	499	707	767	915	1,001	884	980	1,042	962	1,028	1,029	1,093
Other components [3]	3,042	5,826	6,549	7,658	8,869	9,544	10,919	13,982	13,423	13,121	14,392	17,270

NA Not available. [1] Included in "Other components." [2] U.S. consumption. [3] Includes sockets, delay lines, loudspeakers, magnetic components, transducers, printed circuit boards, microwave components, assemblies, and parts.

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

No. 1351. Transportation Equipment—Value of Shipments: 1977 to 1987

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

TYPE OF EQUIPMENT	1977	1980	1981	1982	1983	1984	1985	1986	1987
Aircraft [1]	12,053	23,366	25,109	24,235	26,377	25,878	31,289	34,626	36,709
Aircraft engines and engine parts	4,995	10,010	11,556	11,641	11,516	12,641	14,209	17,151	18,675
Aircraft equipment, n.e.c.	5,762	9,946	10,509	10,789	13,171	15,227	17,386	19,694	19,654
Boat building and repairing	1,822	2,129	2,249	2,307	2,594	3,322	3,388	3,999	5,192
Motor homes built on purchased chassis	1,495	836	1,169	1,036	1,893	1,911	1,668	1,668	2,359
Motor vehicles and car bodies	72,979	61,428	69,457	66,706	90,935	112,358	119,632	123,952	130,851
Motor vehicle parts and accessories	37,842	35,627	40,215	38,414	46,776	55,804	58,384	57,272	59,953
Motorcycles, bicycles, and parts	847	1,160	1,160	1,143	1,151	1,263	1,127	1,114	1,140
Railroad equipment	4,002	7,173	4,597	2,879	1,946	2,671	2,295	2,106	2,151
Ship building and repairing [2]	6,270	8,889	10,690	10,655	9,342	9,471	9,483	8,913	8,376

[1] See table 1074 for number of civil aircraft shipments. [2] Value of work done.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977, 1982*, and *1987*, and *Annual Survey of Manufactures*.

No. 1352. Home Appliances and Home Auto Electronics—Imports: 1984 to 1987

ITEM	NUMBER (1,000)				RETAIL VALUE ($1,000)			
	1984	1985	1986	1987	1984	1985	1986	1987
Major appliances:								
Freezers	96	35	198	167	21,973	4,129	42,400	43,074
Microwave ovens	4,471	12,681	8,787	8,724	559,142	775,578	769,169	674,290
Refrigerator/freezer combination	1,072	1,213	1,545	1,708	94,955	105,383	120,540	139,574
Audio:								
Antennas, CB	632	696	1,019	575	3,315	3,102	5,702	2,832
Antennas, radio	9,745	9,844	11,563	8,228	52,203	46,182	63,465	38,386
Audio frequency elec. amplifiers	3,628	4,519	4,384	5,497	188,879	263,473	248,356	282,667
Headphones [1]	30,199	26,395	25,682	52,860	119,357	101,976	104,697	142,932
Loudspeakers	44,290	64,237	71,165	124,569	278,226	365,889	391,394	301,514
Microphones	2,249	2,175	5,924	18,172	25,240	26,925	34,596	47,133
Radios, total	49,425	47,156	43,282	43,679	696,278	814,802	716,393	773,281
Auto transistors	539	2,941	2,826	2,323	30,665	208,783	183,406	159,367
Clock transistor	15,571	13,031	13,996	12,856	196,932	156,914	138,661	122,040
AM transistor (not battery)	867	695	532	541	15,195	28,706	26,619	19,774
AM transistor (battery)	5,784	4,854	3,073	2,492	30,328	25,238	10,006	8,335
FM AM/FM multi-band transistor radios (not battery)	3,007	3,358	2,656	2,871	192,642	190,007	172,715	253,222
FM AM/FM multi-band transistor radios (battery operated)	23,657	22,277	20,199	22,596	230,516	205,154	184,986	210,543
Radio/phone combination [2]	49	56	46	123	2,334	3,668	7,942	25,832
Radio/phone/tape player combination	420	1,795	1,132	718	29,611	118,272	74,611	42,529
Record changers, auto	175	285	15	15	3,500	14,305	2,837	3,919
Stereo phonos	247	354	51	108	14,990	19,653	4,306	6,660
Video:								
Antennas, TV	8,855	6,532	4,412	4,325	12,536	8,525	6,427	6,363
TV, black and white	5,340	4,188	5,314	4,404	283,386	215,205	250,711	217,311
TV, color	6,368	8,146	9,447	6,272	1,022,740	965,200	1,375,935	908,840
Videotape recorders	9,387	16,765	18,216	19,840	2,862,407	4,304,000	4,543,425	2,984,039
Home video camera, B and W	119	196	233	328	38,503	52,044	77,535	79,221
Home video camera, color	730	690	327	144	395,429	367,384	263,851	135,975
Picture tubes, B and W and color	1,228	2,359	2,895	1,248	63,423	103,999	132,308	86,283

[1] Electric sound amplifier sets. [2] Includes consoles.

Source: Dealerscope Merchandising, Philadelphia, PA, *Merchandising*, 66th Annual Statistical and Marketing Report.

No. 1353. Home Appliances and Home and Auto Electronics—Shipments and Retail Value: 1983 to 1987

[Compiled from report of associations and manufacturers. Retail value represents median price of product times the number of units shipped. Except as indicated, covers electric appliances only]

Product	Manufactures shipments (1,000 units)					Retail value (mil. dol.)				
	1983	1984	1985	1986	1987	1983	1984	1985	1986	1987
Major appliances	**34,421**	**41,370**	**43,963**	**48,092**	**50,739**	**14,439**	**16,906**	**17,537**	**18,453**	**19,499**
Air treatment	2,462	3,736	3,712	3,555	4,638	966	1,495	1,491	1,328	1,738
Air conditioners	1,829	2,929	2,900	2,765	3,659	805	1,294	1,286	1,130	1,502
Dehumidifiers	437	587	586	553	708	80	107	106	90	113
Air cleaners, electronic	196	220	226	237	271	82	95	99	108	123
Kitchen appliances:										
Refrigerators [1]	5,255	5,731	5,874	6,284	6,724	3,607	4,001	4,121	4,299	4,557
Microwave ovens	6,006	9,020	10,633	12,658	12,741	2,586	3,362	3,468	3,600	3,541
Ranges, electric	2,839	3,164	3,218	3,532	3,618	1,299	1,477	1,517	1,589	1,660
Dishwashers	3,054	3,428	3,512	3,874	3,974	1,205	1,368	1,416	1,541	1,569
Freezers [2]	1,166	1,114	1,140	1,154	1,180	568	545	546	517	526
Ranges, gas	1,578	1,736	1,807	1,895	2,132	695	785	821	880	992
Disposers	3,514	4,052	4,068	4,196	4,175	395	466	469	494	500
Home laundry	7,426	8,195	8,626	9,544	10,064	3,034	3,414	3,556	3,831	4,024
Dryers	3,111	3,484	3,701	4,114	4,421	1,102	1,259	1,326	1,451	1,544
Washers	4,315	4,711	4,925	5,430	5,643	1,932	2,154	2,231	2,379	2,479
Compact appliances [3]	1,259	1,325	1,512	1,400	1,493	334	356	399	374	392
Video	**24,584**	**29,021**	**33,393**	**37,131**	**37,751**	**10,360**	**12,041**	(NA)	**15,111**	**15,253**
TV, color	13,939	15,946	16,894	18,855	19,774	6,695	7,297	7,250	7,632	7,913
Videocassette recorders	4,020	7,143	11,912	12,685	12,304	2,303	3,444	(NA)	5,067	4,788
TV, black and white	5,761	5,068	3,745	3,730	3,506	614	518	367	364	340
Camcorders	(NA)	(NA)	(NA)	1,090	1,438	(NA)	(NA)	(NA)	1,213	1,424
TV projection	142	192	261	315	295	285	347	437	664	657
Video cameras	410	484	402	181	110	358	380	266	118	77
Video cassette players	(NA)	(NA)	(NA)	150	182	(NA)	(NA)	(NA)	28	28
Videodisc players	312	188	179	125	142	106	55	51	25	26
Audio/HIFI	**74,244**	**72,295**	**73,157**	**81,103**	**82,245**	**4,846**	**4,807**	**4,983**	**5,542**	**5,518**
Components [4]	8,599	8,378	8,800	10,914	11,270	1,518	1,510	1,653	2,041	2,064
Amps, pre-amps, tuners	581	549	537	597	609	167	153	151	168	173
Compact disc players	45	200	850	1,384	1,675	33	104	264	356	346
Speakers	3,237	3,302	3,345	3,789	3,971	452	465	474	535	570
Receivers	1,550	1,553	1,533	1,843	1,957	390	391	394	483	505
Turntables	2,120	1,696	1,442	1,565	1,382	280	213	172	187	162
Tape decks	880	890	908	1,508	1,458	172	161	176	284	282
Portable tape equipment	28,422	27,109	27,626	30,635	30,753	1,421	1,320	1,333	1,449	1,442
Racked systems	540	810	877	954	917	358	492	528	560	534
Radios	28,188	27,391	27,528	29,896	30,678	863	823	808	845	818
Compact systems	1,912	1,933	2,112	2,484	2,554	439	414	433	421	433
Headphones	2,809	3,090	3,167	3,425	3,534	125	134	134	140	149
Cartridges	3,774	3,585	3,047	2,795	2,539	122	114	94	86	78
Mobile electronics	**22,237**	**23,963**	**24,719**	**26,490**	**28,514**	**2,028**	**2,361**	**2,309**	**3,111**	**3,430**
Autosound [4]	19,935	21,299	21,763	21,625	22,981	1,793	1,936	1,987	2,022	2,183
UD [5] cassette player	694	615	554	466	423	59	45	38	30	27
UD [5] cassette/radio combo	519	426	371	303	274	59	40	31	24	21
ID [5] cassette/radio combo	3,641	3,932	4,030	3,989	4,053	676	754	789	814	848
Radios only	975	932	867	757	687	104	94	81	65	59
Car speakers (in pairs)	13,427	14,635	15,162	15,010	16,241	834	936	979	942	993
Radar detectors	710	942	1,227	1,688	1,834	110	137	187	263	277
Citizen band radios	1,592	1,637	1,729	1,884	1,997	125	126	135	146	153
Cellular telephones	(NA)	85	(NA)	265	331	(NA)	162	(NA)	423	509
Auto security systems	(NA)	(NA)	(NA)	1,028	1,371	(NA)	(NA)	(NA)	257	308
Home office	**35,745**	**37,050**	**38,041**	**39,399**	**42,727**	**1,034**	**1,100**	**1,115**	**6,240**	**6,844**
Calculators	30,895	31,400	33,166	31,318	33,827	925	946	930	727	838
Electronic typewriters	350	650	850	2,038	2,186	109	154	185	446	484
Personal computers	4,500	5,000	4,025	3,075	3,598	(NA)	(NA)	(NA)	2,983	3,313
Monitors	(NA)	(NA)	(NA)	950	998	(NA)	(NA)	(NA)	190	197
Printers	(NA)	(NA)	(NA)	1,568	1,599	(NA)	(NA)	(NA)	1,071	1,039
Personal copiers	(NA)	(NA)	(NA)	269	291	(NA)	(NA)	(NA)	239	258
Facsimile machines	(NA)	(NA)	(NA)	181	228	(NA)	(NA)	(NA)	584	715
Electronic furniture	**5,168**	**5,920**	**6,260**	**6,673**	**6,779**	**668**	**830**	**930**	**1,028**	**1,056**
Specialty radios	**8,107**	**8,279**	**8,166**	**8,154**	**8,408**	(NA)	(NA)	(NA)	477	**490**
Satellite earth stations	(NA)	**450**	**630**	**255**	**252**	(NA)	**1,310**	**1,386**	**513**	**508**
Software:										
Audio:										
Blank audiocassettes	251,855	260,969	266,168	268,500	327,570	587	585	570	451	582
Video:										
Blank videotape	61,690	98,353	156,088	[4] 276,438	[4] 280,551	725	925	1,132	[4] 1,161	[4] 1,075
Beta	15,870	25,392	27,897	34,795	29,576	175	224	210	145	100
VHS	45,820	72,961	128,191	240,643	249,475	550	700	923	1,003	958
Pre-recorded videotape	9,606	19,690	43,100	[4] 65,441	[4] 69,183	521	963	1,913	[4] 2,416	[4] 2,417
Beta	2,633	4,922	7,430	6,707	5,947	131	221	301	246	197
VHS	6,973	14,768	35,670	58,234	62,701	389	742	1,613	2,160	2,211
Blank floppy disks	193,000	241,250	205,063	425,000	545,403	(NA)	(NA)	(NA)	680	764
Telephone equipment:										
Corded telephones	15,058	22,930	22,403	23,768	24,046	1,168	894	983	1,006	984
Cordless telephones	4,488	5,500	4,076	4,279	4,841	610	598	380	410	438
Telephone answering equipment	2,094	2,628	3,306	4,856	5,555	264	298	371	535	578

NA Not available. [1] 6.5 cu. ft. and over. [2] 10 cu. ft. and over. [3] Refrigerators, freezers, washers, and dryers. [4] Includes others not shown separately. [5] UD under dash, ID=in dash.

Source: Dealerscope Merchandising, Philadelphia, PA, *Merchandising*, 66th Annual Statistical and Marketing Report.

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Section 28

Domestic Trade and Services

This section presents statistics relating to the distributive trades and service industries. Data shown for the trades, classified by kind of business, and for the various categories of services (e.g., personal, business, repair, hotel) cover sales or receipts, establishments, employees, payrolls, and other items. Also included are data for franchised businesses.

The principal sources of these data are census reports and survey reports of the Bureau of the Census. Data on gross product in trade and service industries appear in the monthly *Survey of Current Business,* issued by the U.S. Bureau of Economic Analysis. Financial data for firms engaged in retail, wholesale, or service activities appear in the annual *Statistics of Income,* published by the Internal Revenue Service.

Censuses.—Censuses of retail trade, wholesale trade, and the service industries have been taken at various intervals since 1929. Beginning with the 1967 Census, legislation provides for a census to be conducted every 5 years (for years ending in "2" and "7").

The establishments covered in the censuses and surveys of business are those classified in 3 divisions defined in the *Standard Industrial Classification Manual,* (see text, section 13). *Retail trade* refers to places of business primarily engaged in selling merchandise for personal or household consumption; *wholesale trade,* to establishments primarily engaged in selling goods to dealers and distributors for resale or to purchasers who buy for business and farm uses; and *services,* to establishments primarily engaged in providing a range of services for individuals and for businesses.

Data from the 1958 Census of Retail Trade exclude nonemployer establishments which had annual receipts of less then $2,500. Beginning with the 1963 censuses, nonemployer establishments which did not operate the entire year were included if, during the period they operated, their receipts were at a rate which would have reached specified annual totals had they operated the entire year. Beginning with the 1972 Census of Retail Trade, nonemployer establishments are included if, on an annual basis, they reported sales volume of at least $1,000. The Census of Wholesale Trade excludes establishments with no paid employees. Beginning in 1977, sales taxes and finance charges are excluded in sales (or receipt) figures of the three censuses. In 1982 and prior censuses, the count of establishments represented the number in business at the end of the year. For 1987, the count of establishments represents those in business at any time during 1987.

The 1987 Census of Service Industries includes hospitals whereas the 1982 census did not. For 1987, hospitals operated by governmental organizations are included. Government-operated facilities in other service kind-of business classifications are excluded from the census. In 1982, data were also not collected for elementary and secondary schools, colleges and universities, labor unions and similar organizations, and political organizations.

The Census of Retail Trade beginning in 1977, excludes nonemployer direct sellers. In 1982, the census treated each leased department in a store as a separate establishment and classified it according to the kind of business it conducted. In prior years, data for leased departments were consolidated with the data for stores in which they were located.

Current surveys.—Current sample surveys conducted by the Bureau of the Census cover various aspects of the retail and wholesale trade and selected service industries. Its *Monthly Retail Trade Report* contains monthly estimates of sales, inventories, and sales of organizations operating 11 or more retail stores, for the United States, by kind of business. In addition, monthly retail sales data for census regions and divisions, large States, metropolitan areas, and cities are included. Annual figures on sales, year-end inventories, and sales/inventory ratios, by kind of business, appear in the *Annual Retail Trade Report.*

Statistics from the Bureau's monthly wholesale trade survey include national estimates of merchant wholesalers' sales, inventories, and stock-sales ratios by major summary groups—durable and nondurable—and selected kinds of businesses. Merchant wholesalers are those wholesalers who take title to the goods they sell (e.g., jobbers, exporters, importers, major distributors). These data, based on reports submitted by a sample of firms, appear in the *Monthly Wholesale Trade*

Report. Annual figures on sales, sales-inventory ratios, and yearend inventories appear in the *Annual Wholesale Trade Report.*

The *Service Annual Survey* provides annual estimates of receipts for selected service establishments for the United States as a whole.

For the current sample survey programs, retail trade coverage is the same as for the census; wholesale trade coverage is limited to merchant wholesalers; and selected services coverage is less inclusive than the census.

Estimates obtained from annual and monthly surveys are based on sample data and are not expected to agree exactly with results that would be obtained from a complete census of all establishments. Data include estimates for establishments not reporting.

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.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970.* See Appendix IV.

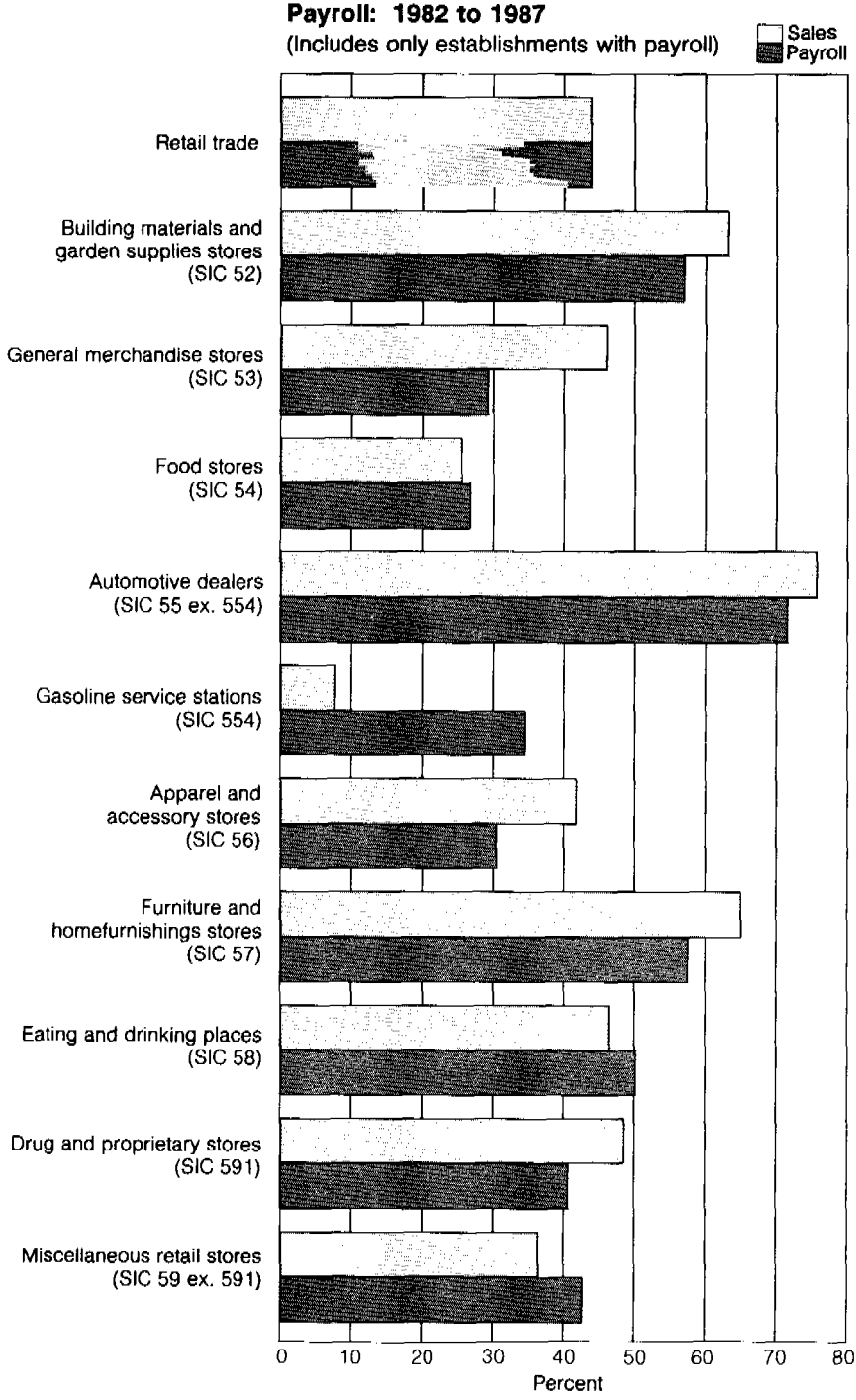
No. 1354. Gross National Product in Domestic Trade and Service Industries in Current and Constant (1982) Dollars: 1970 to 1987

[**In billions of dollars, except percent.** For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

INDUSTRY	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
CURRENT DOLLARS										
Wholesale and retail trade	**168.7**	**273.7**	**438.9**	**483.1**	**506.5**	**542.9**	**613.9**	**658.2**	**698.4**	**740.4**
Percent of gross national product	16.6	17.1	16.1	15.8	16.0	15.9	16.3	16.4	16.5	16.4
Wholesale trade	68.2	117.5	193.9	214.0	219.0	226.5	263.1	280.8	294.8	313.0
Retail trade	100.5	156.2	245.0	269.1	287.5	316.4	350.8	377.4	403.6	427.4
Services	**120.2**	**199.8**	**374.0**	**422.6**	**463.6**	**515.5**	**580.2**	**648.1**	**716.3**	**793.5**
Percent of gross national product	11.8	12.5	13.7	13.8	14.6	15.1	15.4	16.1	16.9	17.5
Hotels and other lodging places	6.3	10.1	18.9	20.4	21.7	24.3	27.0	30.4	32.7	35.8
Personal services	9.3	11.4	18.8	19.5	21.3	23.1	25.0	29.7	32.2	34.4
Business services	18.0	30.6	68.8	79.9	90.7	104.8	125.3	145.8	161.6	179.3
Auto repair, services, and garages	6.3	11.2	21.1	23.1	23.5	26.1	29.2	33.2	36.1	38.9
Miscellaneous repair services	2.7	4.6	9.2	9.2	9.6	10.8	12.8	12.4	13.4	13.9
Motion pictures	2.3	3.1	5.0	5.5	6.3	6.6	7.3	9.0	9.5	10.7
Amusement and recreation services	4.8	7.7	12.4	14.0	15.1	16.8	17.8	19.9	21.8	24.0
Health services	31.4	57.8	108.1	124.7	142.0	156.1	169.0	184.6	199.1	223.7
Legal services	7.3	12.5	23.3	25.9	30.6	35.0	41.6	46.3	53.7	62.3
Educational services	7.1	11.4	16.0	17.5	19.1	21.0	23.5	25.8	27.2	29.6
Social services, membership organizations	10.0	15.9	26.3	28.4	30.5	32.8	35.7	38.3	41.7	45.3
Miscellaneous professional services	10.3	18.8	39.6	47.5	45.7	49.9	56.9	63.6	78.3	86.4
Private households	4.5	4.6	6.6	7.0	7.6	8.2	8.9	9.0	9.1	9.2
CONSTANT (1982) DOLLARS										
Wholesale and retail trade	**367.6**	**433.1**	**500.4**	**507.3**	**506.5**	**529.0**	**578.9**	**610.3**	**642.9**	**660.0**
Percent of gross national product	15.2	16.1	15.7	15.6	16.0	16.1	16.5	16.9	17.3	17.2
Wholesale trade	152.0	185.6	213.5	218.4	219.0	222.0	250.6	268.5	282.7	291.7
Retail trade	215.6	247.5	286.9	288.9	287.5	307.0	328.3	341.8	360.2	368.3
Services	**295.7**	**352.4**	**442.6**	**462.5**	**463.6**	**486.6**	**514.0**	**546.4**	**578.9**	**610.8**
Percent of gross national product	12.2	13.1	13.9	14.2	14.6	14.8	14.7	15.1	15.6	15.9
Hotels and other lodging places	17.1	19.2	22.6	22.3	21.7	22.5	22.9	23.5	23.4	24.3
Personal services	22.9	21.1	22.2	21.0	21.3	21.8	22.4	25.4	26.4	27.1
Business services	47.5	57.1	84.0	88.5	90.7	100.0	111.0	120.8	129.8	139.7
Auto repair, services, and garages	14.9	19.2	24.4	24.5	23.5	25.2	27.3	30.1	31.7	32.9
Miscellaneous repair services	5.9	7.4	8.8	9.7	9.6	9.7	10.2	10.3	10.1	10.2
Motion pictures	4.8	5.2	5.7	5.8	6.3	6.2	6.3	7.5	7.7	7.6
Amusement and recreation services	9.2	11.3	13.7	14.7	15.1	16.1	16.4	17.9	18.9	20.3
Health services	77.8	103.5	129.4	137.7	142.0	146.7	153.1	158.9	165.7	176.9
Legal services	23.2	24.7	28.9	30.6	30.6	31.6	32.8	35.0	36.3	37.9
Educational services	14.6	16.8	18.1	18.6	19.1	19.8	20.6	21.5	21.6	22.4
Social services, membership organizations	22.1	25.7	30.2	30.5	30.5	31.1	32.3	33.3	34.7	35.9
Miscellaneous professional services	24.4	33.0	47.1	51.3	45.7	47.7	49.9	53.6	63.8	66.7
Private households	11.3	8.2	7.4	7.3	7.6	8.1	8.8	8.8	8.8	8.8

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82,* and *Survey of Current Business,* July issues.

Figure 28.1
Percent Change in Sales and Annual Payroll: 1982 to 1987
(Includes only establishments with payroll)



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1357.

No. 1355. Persons Working in Domestic Trade and Service Industries: 1970 to 1988

[**In thousands.** Data represent worker-years of full-time equivalent employment by persons working for wages or salaries and number of active partners and proprietors of unincorporated businesses who devote a majority of their working hours to their unincorporated businesses. Based on 1972 Standard Industrial Classification]

INDUSTRY	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Wholesale and retail	**14,889**	**19,395**	**19,604**	**19,419**	**19,815**	**21,038**	**21,747**	**22,215**	**22,941**	**23,582**
Wholesale trade	4,123	5,396	5,522	5,409	5,409	5,697	5,804	5,834	5,989	6,159
Retail trade	10,766	13,999	14,082	14,010	14,406	15,341	15,943	16,381	16,952	17,423
Services	**13,380**	**19,526**	**20,230**	**20,729**	**21,571**	**22,895**	**23,929**	**24,787**	**26,089**	**27,342**
Hotels and other lodging places	1,003	1,261	1,310	1,340	1,382	1,461	1,571	1,598	1,665	1,763
Personal services	1,341	1,330	1,337	1,334	1,379	1,443	1,503	1,523	1,590	1,712
Business services	1,666	3,077	3,251	3,345	3,703	4,273	4,650	5,003	5,478	5,930
Auto repair, services, garages	508	838	865	909	927	1,022	1,090	1,129	1,155	1,202
Miscellaneous repair services	316	475	519	515	523	548	555	541	542	560
Motion pictures	181	249	268	266	274	280	283	296	304	313
Amusement, recreation services	402	683	695	702	717	747	751	765	789	812
Health services	2,905	5,218	5,461	5,677	5,821	5,972	6,142	6,350	6,640	6,788
Legal services	401	690	732	786	830	883	921	952	1,047	1,099
Educational services	1,001	1,241	1,277	1,311	1,360	1,414	1,470	1,481	1,530	1,585
Social services and membership organizations	1,756	2,361	2,373	2,382	2,470	2,545	2,607	2,725	2,865	3,023
Miscellaneous professional services	746	1,348	1,402	1,435	1,447	1,541	1,633	1,671	1,744	1,830
Private households	1,154	755	740	727	738	766	753	753	740	725

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82,* and *Survey of Current Business,* July issues.

No. 1356. Retail Trade—Summary: 1958 to 1987

[1972 through 1987 based on 1972 Standard Industrial Classification (SIC) code (except as noted) and not strictly comparable with prior years due to changes in Standard Industrial Classification; for details, see source. See also *Historical Statistics, Colonial Times to 1970,* series T 43-47 and T 79-91]

ITEM	Unit	1958	1963	1967	1972	1977	1982	1987
Firms, total	1,000	(NA)	1,532	1,577	1,665	1,567	1,573	(NA)
Multiunit establishments [1]	1,000	[2] 183	220	220	301	343	415	(NA)
Establishments, total	1,000	1,795	1,708	1,763	1,780	1,855	1,923	(NA)
With payroll [3]	1,000	1,185	1,206	1,192	1,265	1,304	1,324	1,379
With sales of $1,000,000 or more	1,000	(NA)	(NA)	(NA)	74	119	193	(NA)
Consumer Price Index: [4]								
All items	1982-84=100	28.9	30.6	33.4	41.8	60.6	96.5	113.6
All commodities	1982-84=100	33.3	34.4	36.8	44.5	64.2	97.0	107.7
Sales	Bil. dol.	200.4	244.2	310.2	457.4	723.1	1,065.9	(NA)
By establishments with payroll	Bil. dol.	187.8	233.1	295.2	440.2	699.6	1,039.0	1,494.1
By multiunit establishments [1]	Bil. dol.	[2] 67.2	89.5	123.5	201.8	340.7	566.7	(NA)
Percent of total sales	Percent	33.5	36.6	39.8	44.0	47.1	53.2	(NA)
Percent of multiunit sales by 101-or-more establishment multiunits [1 5]	Percent	42.4	43.1	46.7	55.8	55.8	54.5	(NA)
In 1982 dollars [6]	Bil. dol.	(NA)	645.0	763.9	943.3	1,054.2	1,065.9	(NA)
Percent of sales by corporations	Percent	53.0	61.9	67.4	76.4	79.8	84.6	(NA)
Per capita sales: [7]								
Current dollars	Dollars	1,156	1,296	1,571	2,186	3,291	4,599	(NA)
Constant (1982) dollars [6]	Dollars	(NA)	3,423	3,869	4,508	4,798	4,599	(NA)
Sales as percent of personal income	Percent	[2] 55.5	52.4	49.3	48.1	46.9	41.5	(NA)
Sales, inside metropolitan areas [8]	Bil. dol.	[2] 133.0	169.8	221.4	(NA)	551.8	845.0	[9] 1,229.8
Percent of total sales	Percent	66.4	69.5	71.4	(NA)	76.3	79.3	[9] 82.4
Payroll, entire year	Bil. dol.	21.7	27.6	36.2	55.4	85.9	123.6	177.7
Percent of sales	Percent	[2] 11.5	11.3	11.7	12.1	11.9	11.6	11.9
Paid employees, March 12 pay period [10]	1,000	7,942	8,410	9,381	11,211	13,040	14,468	17,793

NA Not available. [1] Establishments operated by firms which operate at two or more locations. Beginning 1982, includes single units operated by multiunit establishments. 1972 and 1977 data revised since originally published. [2] Excludes Alaska and Hawaii. [3] Represents the number of establishments in business at the end of the year. [4] Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review.* Beginning 1982, CPI-U, see text, section 14. [5] For 1982, data provided for percent of multiunit sales by 100-or-more establishment units. [6] Based on implicit price deflators for retail sales supplied by U.S. Bureau of Economic Analysis. [7] Based on estimated resident population as of July 1. [8] Through 1982 based on Standard Metropolitan Statistical Area definitions. Data for 1987 based on Metropolitan Statistical Area definitions. See Appendix II. [9] Based on 1987 SIC code. Covers only establishments with payroll. [10] 1958 and 1963 data for week including November 15.

Source: Except as noted, U.S. Bureau of the Census, *U.S. Census of Business: 1958,* vol. I; *1963,* vol. I; *1967,* vol. I; and *Census of Retail Trade, 1972,* RC72-S-1, *1977,* RC77-52, *1982,* RC82-A-52 and RC82-I-1 and *1987,* RC87-A-52.

No. 1357. Retail Trade Establishments with Payroll—Number, Sales, Payroll, and Employees, by Kind of Business: 1982 and 1987

[Each kind-of-business classification includes leased departments classified in that kind of business as if they were separate establishments. See *Historical Statistics, Colonial Times to 1970,* series T 79–196 for similar but not comparable data]

1972 SIC code [1]	KIND OF BUSINESS	ESTABLISHMENTS [2] (1,000)		SALES (mil. dol.)		ANNUAL PAYROLL (mil. dol.)		PAID EMPLOYEES [3] (1,000)	
		1982	1987	1982	1987	1982	1987	1982	1987
	Retail trade, total	**1,425**	**1,506**	**1,039,029**	**1,494,112**	**123,619**	**177,708**	**14,468**	**17,793**
52	Building materials and garden supplies stores	70	74	49,939	81,487	6,221	9,760	504	668
521, 3	Building materials, supply stores	36	38	34,827	60,525	4,179	6,929	307	432
525	Hardware stores	21	20	8,335	10,535	1,250	1,564	127	138
526	Retail nurseries, lawn and garden supply stores	8	11	2,873	5,411	456	822	47	71
527	Mobile home dealers	5	5	3,904	5,015	336	445	24	27
53	General merchandise stores	36	35	124,066	181,147	15,163	19,586	1,876	2,003
531	Department stores (incl. leased depts.) [4, 5]	10	11	107,163	156,922	(NA)	(NA)	(NA)	(NA)
531	Department stores (excl. leased depts.) [4, 5]	10	11	103,289	147,181	12,836	16,688	1,552	1,688
533	Variety stores	12	10	8,090	6,762	1,085	926	161	121
539	Misc. general merchandise stores	14	14	12,687	27,204	1,241	1,971	163	194
54	Food stores [6]	190	191	240,520	301,847	23,530	29,819	2,348	2,855
541	Grocery stores	138	138	226,609	285,481	21,364	27,084	2,031	2,502
542	Meat and fish (seafood) markets	12	11	5,274	5,616	563	606	62	59
546	Retail bakeries	19	22	3,543	4,871	979	1,353	159	185
543	Fruit and vegetable markets	3	3	1,330	1,802	135	186	17	20
544	Candy, nut, confectionery stores	5	6	801	1,182	129	199	23	31
545	Dairy products stores	5	3	1,375	880	163	106	27	17
55 ex. 554	Automotive dealers [6]	94	103	189,677	333,420	16,731	28,688	1,035	1,373
551	New and used car dealers	28	28	154,726	280,529	12,309	22,205	699	940
552	Used car dealers	12	15	6,273	10,849	450	809	36	55
553	Auto and home supply stores	41	46	19,638	25,460	3,072	4,152	229	286
555	Boat dealers	4	5	2,870	6,824	304	620	23	35
556	Recreational and utility trailer dealers	3	3	2,767	5,687	231	453	16	26
557	Motorcycle dealers	5	4	2,877	3,475	308	382	27	27
554	Gasoline service stations	127	115	94,719	101,997	4,768	6,414	604	702
56	Apparel and accessory stores [6]	141	149	54,622	77,391	7,455	9,725	967	1,121
561	Men's and boys' clothing stores	19	17	7,735	8,869	1,224	1,361	123	115
562, 3, 8	Women's clothing and specialty stores	52	60	19,743	28,531	2,649	3,519	385	455
562	Women's clothing stores	45	52	18,002	25,868	2,383	3,150	351	419
565	Family clothing stores	19	18	13,451	21,117	1,671	2,362	219	268
566	Shoe stores	39	39	11,275	14,411	1,571	1,880	189	205
564	Children's and infants' wear stores	6	6	1,356	2,101	172	245	28	37
57	Furniture and homefurnishings stores	100	110	45,314	74,783	6,287	9,904	543	703
5712	Furniture stores	32	33	17,223	25,997	2,608	3,628	214	247
5713, 4, 9	Homefurnishings stores	27	32	8,848	16,374	1,320	2,389	124	176
572	Household appliance stores	12	11	5,697	8,332	697	953	59	65
573	Radio, television, computer, and music stores	30	34	13,545	24,080	1,662	2,734	146	215
	Computer and software stores	(NA)	4	(NA)	2,651	(NA)	325	(NA)	22
58	Eating and drinking places	352	391	101,723	148,776	25,708	38,582	4,666	6,100
5812	Eating places [6]	284	333	93,158	139,282	23,987	36,633	4,341	5,787
5812 pt.	Restaurants and lunchrooms	135	155	47,136	66,364	12,935	18,796	2,291	2,822
5812 pt.	Refreshment places	120	138	35,678	56,870	8,185	13,269	1,610	2,352
5813	Drinking places	68	59	8,565	9,495	1,721	1,950	325	313
591	Drug and proprietary stores	52	52	36,242	53,824	4,605	6,476	496	574
59 ex. 591	Miscellaneous retail stores	264	286	102,207	139,440	13,150	18,754	1,430	1,694
592	Liquor stores	37	35	17,340	18,597	1,310	1,454	167	157
593	Used merchandise stores	19	18	3,798	4,305	730	823	80	81
594	Misc. shopping goods stores	108	123	32,524	49,460	4,623	6,481	566	706
5941	Sporting goods stores and bicycle shops	20	22	6,718	10,077	844	1,218	98	121
5942	Book stores	10	11	3,133	5,116	401	581	58	72
5943	Stationery stores	5	5	1,495	1,814	257	287	28	27
5944	Jewelry stores	24	28	8,352	11,994	1,433	1,921	132	163
5945	Hobby, toy, and game shops	8	10	3,238	7,031	325	614	46	76
5946	Camera, photographic supply stores	4	4	1,864	2,294	225	276	21	21
5947	Gift, novelty, souvenir shops	24	32	4,620	7,459	694	1,055	110	151
5948	Luggage, leather goods stores	2	2	589	839	94	122	11	11
5949	Sewing, needlework, and piece goods stores	10	10	2,495	2,836	350	406	62	65
596	Nonstore retailers	23	23	20,155	33,894	2,942	4,523	274	318
5961	Catalog and mail-order houses	8	7	11,254	20,347	1,194	1,932	103	123
5962	Merchandising machine operators	6	5	4,727	5,692	935	1,090	84	74
5963	Direct selling establishments	9	11	4,175	7,855	813	1,501	88	121
598	Fuel and ice dealers	13	13	16,818	14,250	1,405	1,834	95	100
5992	Florists	24	27	3,416	4,810	711	1,019	104	125
5993	Tobacco stores and stands	2	2	576	518	68	57	9	7
5994	News dealers and newsstands	2	2	500	703	60	90	9	10
5999	Miscellaneous retail stores, n.e.c. [6] [7]	35	44	7,078	12,902	1,301	2,472	127	191
5999 pt.	Optical goods stores	11	14	1,729	3,415	404	811	34	54

NA Not available. [1] Based on 1972 Standard Industrial Classification; see text, section 13. [2] Represents the number of establishments in business at any time during year. [3] For pay period including March 12. [4] Includes sales from catalog order desks. [5] Establishments defined as department stores with 25 employees or more. [6] Includes other kinds of businesses, not shown separately. [7] N.e.c. means not elsewhere classified.

Source: U.S. Bureau of the Census, *1987 Census of Retail Trade,* RC87-A-52.

No. 1358. Retail Trade—Summary of Establishments with Payroll, by State: 1987

[Kind-of-business classification based on 1987 Standard Industrial Classification code; see text, section 13. Minus sign (−) indicates decrease]

Division and State	Establishments: Total [1]	Establishments: General merchandise stores	Establishments: Food stores	Establishments: Automotive dealers	Sales (mil. dol.): Total [1]	Sales (mil. dol.): General merchandise stores	Sales (mil. dol.): Food stores	Sales (mil. dol.): Automotive dealers	Annual payroll (mil. dol.)	Paid employees [2] (1,000)	Percent change, 1982–1987: Sales	Percent change, 1982–1987: Annual payroll
U.S.	**1,503,593**	**35,434**	**190,706**	**102,704**	**1,493,309**	**181,147**	**301,847**	**333,420**	**177,548**	**17,780**	**43.9**	**43.9**
N.E	**89,959**	**2,210**	**11,192**	**5,349**	**98,890**	**10,616**	**18,309**	**22,065**	**11,900**	**1,115**	(D)	(D)
ME	9,204	411	1,418	736	8,651	817	1,809	1,917	959	92	67.5	73.9
NH	8,403	296	1,102	542	9,961	1,181	1,903	2,436	1,122	102	90.3	99.8
VT	5,077	175	767	325	4,043	301	840	917	473	47	(D)	(D)
MA	38,905	805	4,632	2,055	44,818	4,927	8,075	9,855	5,493	530	59.0	67.5
RI	6,682	122	835	409	6,315	773	1,179	1,269	772	76	55.6	61.9
CT	21,688	401	2,438	1,282	25,102	2,617	4,503	5,671	3,081	268	62.4	68.5
M.A	**229,780**	**4,796**	**31,725**	**11,874**	**229,208**	**25,959**	**46,837**	**47,315**	**27,338**	**2,564**	**47.8**	**49.7**
NY	110,562	2,305	16,367	4,815	103,212	11,482	21,296	18,594	12,774	1,150	46.6	48.5
NJ	48,395	852	6,353	2,489	54,779	5,715	11,119	12,732	6,467	566	54.4	60.4
PA	70,823	1,639	9,005	4,570	71,217	8,762	14,422	15,989	8,097	848	44.8	43.9
E.N.C	**245,616**	**5,432**	**28,647**	**16,174**	**249,052**	**31,917**	**46,752**	**56,452**	**29,029**	**3,081**	**41.0**	**38.1**
OH	63,025	1,454	8,129	4,271	63,191	8,347	12,977	14,430	7,434	804	39.2	35.9
IN	33,083	906	3,209	2,536	33,097	4,065	6,062	7,746	3,727	412	43.0	38.8
IL	63,945	1,290	6,877	3,875	68,264	8,042	12,454	14,758	8,078	820	37.5	33.9
MI	53,399	1,052	7,422	3,520	56,697	8,041	9,922	13,534	6,584	673	47.6	48.4
WI	32,164	730	3,010	1,972	27,803	3,422	5,337	5,984	3,206	372	39.0	33.9
W.N.C	**118,871**	**2,913**	**12,892**	**8,585**	**101,834**	**13,287**	**19,889**	**22,299**	**11,685**	**1,317**	**34.2**	**31.8**
MN	27,005	591	3,022	1,699	27,280	3,419	4,890	5,534	3,086	347	42.7	37.2
IA	20,311	540	2,179	1,442	15,082	1,934	3,288	3,388	1,705	204	22.6	19.6
MO	32,524	825	3,571	2,601	30,176	4,168	5,820	6,858	3,538	376	43.6	42.7
ND	5,235	131	516	354	3,730	499	681	876	408	48	13.9	11.1
SD	5,514	146	616	348	3,683	390	735	844	408	49	28.0	24.7
NE	11,485	276	1,222	841	8,486	1,084	1,672	1,793	970	118	25.4	22.8
KS	16,797	404	1,766	1,300	13,397	1,793	2,803	3,006	1,570	175	27.2	28.1
S.A	**268,728**	**7,338**	**34,912**	**19,689**	**274,321**	**31,260**	**54,451**	**65,981**	**32,326**	**3,263**	**59.4**	**60.7**
DE	4,416	117	531	273	4,976	696	901	1,139	566	56	62.0	61.0
MD	26,538	558	3,359	1,523	32,009	3,746	6,113	7,810	3,945	378	55.1	58.0
DC	3,681	34	415	66	3,423	314	591	174	575	55	31.0	37.1
VA	34,916	1,063	4,937	2,600	38,960	4,306	8,049	9,443	4,557	453	61.1	60.4
WV	10,737	532	1,619	860	9,030	1,315	2,143	2,007	994	109	24.2	21.2
NC	42,991	1,480	5,607	3,610	39,052	4,034	7,850	9,359	4,423	465	62.4	63.0
SC	21,859	667	2,781	1,802	18,950	2,016	4,093	4,186	2,177	237	57.2	61.9
GA	39,782	1,131	5,161	3,070	39,995	4,922	7,709	9,415	4,792	487	66.5	75.0
FL	83,808	1,756	10,502	5,885	87,926	9,911	17,002	22,448	10,297	1,023	61.4	61.2
E.S.C	**90,925**	**3,282**	**13,222**	**7,966**	**80,092**	**10,666**	**17,178**	**19,074**	**8,952**	**972**	**44.9**	**45.1**
KY	21,731	806	3,172	1,736	18,940	2,570	4,287	3,974	2,132	244	36.2	37.5
TN	29,373	953	4,214	2,435	28,533	3,805	5,654	7,141	3,198	338	51.7	51.7
AL	24,092	831	3,233	2,314	21,261	2,652	4,476	5,393	2,357	250	52.9	51.1
MS	15,729	692	2,603	1,481	11,358	1,639	2,761	2,566	1,265	140	31.4	33.2
W.S.C	**160,743**	**4,131**	**22,603**	**13,031**	**146,509**	**19,313**	**32,859**	**33,360**	**17,171**	**1,798**	**18.3**	**19.5**
AR	15,096	490	1,989	1,468	11,632	1,717	2,494	2,725	1,246	139	33.9	33.7
LA	24,262	742	3,938	1,777	21,627	3,029	5,428	4,252	2,570	278	11.4	12.1
OK	20,235	501	2,905	1,720	16,074	2,082	3,646	3,874	1,859	207	3.7	6.6
TX	101,150	2,398	13,771	8,066	97,176	12,485	21,291	22,509	11,496	1,174	21.1	22.4
Mt	**83,283**	**1,889**	**8,528**	**6,252**	**77,844**	**8,976**	**17,060**	**17,115**	**9,487**	**977**	**34.6**	**35.3**
MT	6,790	164	706	495	4,344	424	1,025	919	503	57	13.6	13.9
ID	6,587	181	705	576	4,891	484	1,132	1,149	556	63	24.6	23.7
WY	3,726	118	268	268	2,522	263	540	531	308	33	−8.2	−4.9
CO	22,389	425	2,003	1,491	20,689	2,529	4,276	4,412	2,668	268	27.8	29.4
NM	9,032	254	988	747	7,920	936	1,667	1,781	941	105	28.7	33.4
AZ	19,798	454	2,236	1,517	21,778	2,478	4,983	4,918	2,624	261	60.4	57.1
UT	8,519	192	877	686	8,379	1,023	1,900	1,822	963	109	35.8	38.6
NV	6,442	101	745	472	7,321	839	1,537	1,583	924	81	39.5	38.6
Pac	**215,688**	**3,443**	**26,985**	**13,784**	**235,562**	**29,155**	**48,513**	**49,761**	**29,661**	**2,693**	(D)	(D)
WA	28,499	466	3,822	2,092	27,250	3,353	6,206	5,341	3,402	329	39.3	33.0
OR	18,712	392	2,626	1,376	16,821	2,525	3,328	3,807	2,027	204	37.2	33.9
CA	157,760	2,310	19,200	9,856	179,801	21,500	36,495	38,894	22,732	2,022	49.1	47.3
AK	3,522	124	416	179	3,606	523	912	497	484	36	(D)	(D)
HI	7,195	151	921	281	8,084	1,254	1,572	1,222	1,016	102	58.5	46.0

D Withheld to avoid disclosing data for individual companies. [1] Includes other kinds of business not shown separately.
[2] For pay period including March 12.

Source: U.S. Bureau of the Census, *1987 Census of Retail Trade*, Geographic Area series, RC87-A-1 to 52.

No. 1359. Retail Trade—Establishments, Employees, and Payroll: 1980 to 1986

[Excludes government employees, railroad employees, self-employed persons, etc. For statement on methodology, see Appendix III]

SIC [1] code	Kind of business	Establishments (1,000)			Employees (1,000)			Payroll (bil. dol.)	
		1980	1985	1986	1980	1985	1986	1985	1986
(G)	**Retail trade, total**	**1,222.9**	**1,406.8**	**1,441.2**	**15,047**	**16,852**	**17,550**	**179**	**193**
52	Building materials and garden supplies [2]	62.4	68.5	69.6	535	585	626	8	9
521	Lumber and other building materials	24.2	26.3	26.9	289	322	347	5	6
523	Paint, glass, and wallpaper stores	8.6	9.3	9.5	44	46	49	1	1
525	Hardware stores	18.4	19.5	19.4	129	134	143	2	2
526	Retail nurseries and garden stores	6.3	8.5	8.8	43	56	61	1	1
53	General merchandise stores [2]	36.9	35.3	36.0	1,965	1,942	1,954	18	19
531	Department stores	9.2	10.0	10.3	1,591	1,615	1,630	15	16
533	Variety stores	12.4	10.7	10.5	195	153	144	1	1
539	Misc. general merchandise stores	14.9	13.8	14.2	178	170	174	2	2
54	Food stores [2]	157.6	182.7	187.4	2,225	2,595	2,723	28	29
541	Grocery stores	115.0	130.3	133.1	1,917	2,241	2,358	25	26
546	Retail bakeries	15.7	19.0	19.9	149	174	176	1	1
55	Automotive dealers and service stations [2]	202.3	200.9	201.6	1,745	1,855	1,930	31	34
551	New and used car dealers	27.2	26.1	26.2	793	839	884	20	21
553	Auto and home supply stores	35.2	41.2	41.9	225	264	271	4	4
554	Gasoline service stations	116.9	105.8	103.9	601	609	614	6	6
56	Apparel and accessory stores [2]	124.6	139.3	141.8	944	1,034	1,081	9	10
561	Men's and boys' clothing and furnishings	18.1	15.9	15.4	140	118	117	1	1
562	Women's ready-to-wear stores	40.0	44.4	45.1	350	387	414	3	3
565	Family clothing stores	14.5	16.6	15.8	184	221	226	2	2
566	Shoe stores	32.5	37.3	37.4	178	194	195	2	2
57	Furniture and home furnishings stores [2]	84.4	98.0	101.4	577	631	668	9	10
571	Furniture and home furnishings stores	50.4	54.3	55.5	362	363	376	5	6
5712	Furniture stores	29.1	29.3	29.7	238	225	230	3	4
572	Household appliance stores	10.0	9.8	10.1	65	63	66	1	1
5732	Radio and television stores	14.3	23.2	24.0	88	140	153	2	2
58	Eating and drinking places [2]	282.5	351.3	362.8	4,492	5,302	5,577	35	38
5812	Eating places	217.3	281.4	289.5	4,053	4,879	5,087	32	34
5813	Drinking places	54.0	52.6	50.2	319	277	266	2	2
59	Miscellaneous retail [2]	260.3	317.8	327.2	1,914	2,133	2,205	23	26
591	Drug stores and proprietary stores	46.8	50.7	50.9	498	539	542	6	6
592	Liquor stores	26.7	32.5	32.4	140	154	153	1	1
5941	Sporting goods and bicycle shops	15.8	18.3	18.8	96	104	109	1	1
5944	Jewelry stores	20.2	23.4	24.5	140	133	136	2	2
5947	Gift, novelty, and souvenir stores	16.5	23.0	23.4	84	120	123	1	1
5961	Mail order houses	6.4	7.1	6.2	134	114	111	2	2
5992	Florists	18.8	23.5	24.4	99	114	121	1	1
	Administrative and auxiliary	11.9	13.0	13.1	650	775	785	17	18

[1] Standard Industrial Classification; see text, section 13. [2] Includes industries not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

No. 1360. Largest Retailing Companies—Sales, Net Income, Assets, and Employees, by Sales Group: 1980 to 1988

[**Sales, net income, and assets in billions of dollars; employees in thousands; except percent.** Excludes large privately owned companies that do not publish sales. Includes all reported data for fiscal years ending not later than January following year stated]

Rank by sales group	Sales [1]			Net income [2]			Assets [3]			Employees [4]		
	1980	1985	1988	1980	1985	1988	1980	1985	1988	1980	1985	1988
50 largest	**200.8**	**319.3**	**355.4**	**3.9**	**7.6**	**9.1**	**96.3**	**195.0**	**233.3**	**3,240**	**3,887**	**4,077**
Top 10	109.3	168.4	197.8	1.9	3.4	5.0	56.0	114.8	141.6	1,614	1,821	2,090
11th–20th	40.6	63.4	67.5	.5	1.3	1.7	16.4	34.0	39.2	591	720	976
21st–30th	23.8	41.8	41.3	.7	1.5	1.3	12.3	25.5	24.2	569	784	494
31st–40th	15.7	26.7	27.4	.5	.6	.6	7.3	12.5	17.7	324	317	307
41st–50th	11.5	19.1	21.4	.3	.8	.6	4.3	8.2	10.6	143	245	209
Percent of total:												
Top 10	54.4	52.7	55.7	48.7	44.3	54.7	58.2	58.9	60.7	49.8	46.8	51.3
11th–20th	20.2	19.9	19.0	12.3	17.0	18.2	17.0	17.4	16.8	18.2	18.5	23.9
21st–30th	11.8	13.1	11.6	18.5	20.2	14.3	12.7	13.1	10.4	17.6	20.2	12.1
31st–40th	7.8	8.4	7.7	13.8	8.3	6.2	7.6	6.4	7.6	10.0	8.1	7.5
41st–50th	5.7	6.0	6.0	6.8	10.2	6.5	4.5	4.2	4.6	4.4	6.3	5.1

[1] Includes sales of subsidiaries when they are consolidated and sales from discontinued operations. [2] After taxes, and extraordinary charges and credits. [3] Total assets employed in business at end of fiscal year. [4] As of year end, or yearly average.

Source: Time, Inc., New York, NY, adapted from *The Fortune Directories*. (Copyright.)

No. 1361. Retail Trade Sales—Summary: 1970 to 1988

[Sales and inventories for leased departments and concessions are tabulated in the kind-of-business category of the leased department or concession. Based on Current Business Survey, see Appendix III. Minus sign (−) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series T 245, 246, and 255]

YEAR	CURRENT DOLLARS							CONSTANT (1982) dollars [4]		
	Total sales (bil. dol.)	Annual percent change [1]	Per capita [2] (dol.)	Index of sales (1982=100)	Durable goods (bil. dol.)	Nondurable goods (bil. dol.)		Total sales (bil. dol.)	Annual percent change [1]	Per capita [2] (dol.)
						Total	Dept. stores [3]			
1970	375.2	6.4	1,839	35.1	114.8	260.3	37.4	822.7	2.5	4,033
1971	414.2	10.4	2,002	38.7	135.4	278.8	41.8	874.7	6.3	4,229
1972	458.5	10.7	2,191	42.9	156.3	302.2	45.9	945.6	8.1	4,518
1973	511.9	11.6	2,422	47.9	177.2	334.7	51.0	990.7	4.8	4,687
1974	542.0	5.9	2,541	50.7	172.9	369.1	53.8	937.4	−5.4	4,394
1975	588.1	8.5	2,730	55.0	185.9	402.2	57.5	944.0	.7	4,381
1976	656.4	11.6	3,017	61.4	220.4	436.0	63.5	1,007.2	6.7	4,629
1977	722.5	10.1	3,288	67.6	249.4	473.1	71.1	1,053.3	4.6	4,793
1978	804.2	11.3	3,621	75.2	281.4	522.7	78.0	1,096.0	4.1	4,935
1979	896.8	11.5	3,993	83.9	307.5	589.2	82.5	1,112.8	1.5	4,955
1980	957.4	6.7	4,213	89.5	299.2	658.1	88.3	1,073.3	−3.5	4,723
1981	1,038.7	8.5	4,523	97.1	324.8	713.9	98.9	1,077.4	.4	4,692
1982	1,069.3	2.9	4,609	100.0	336.2	733.1	103.3	1,069.3	−.8	4,609
1983	1,167.9	9.2	4,985	109.2	390.9	777.0	112.0	1,142.8	6.9	4,878
1984	1,281.7	9.7	5,420	119.9	453.8	827.8	123.8	1,223.0	7.0	5,172
1985	1,365.8	6.6	5,721	127.7	496.6	869.2	129.4	1,278.9	4.6	5,357
1986	1,436.0	5.1	5,956	134.3	538.3	897.6	137.2	1,348.3	5.4	5,592
1987	1,521.4	6.0	6,250	142.3	572.5	948.9	146.4	1,380.6	2.4	5,672
1988	1,629.2	7.1	6,628	152.4	628.5	1,000.6	154.0	1,435.4	4.0	5,840

[1] Change from immediate prior year. [2] Based on Bureau of the Census estimates of resident population as of July 1. [3] Excludes leased departments. [4] Based on implicit price deflators for retail sales supplied by U.S. Bureau of Economic Analysis.

Source: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Retail Sales and Inventories, January 1979 Through December 1988*, (BR88-R) and unpublished data.

No. 1362. Retail Trade—Sales, by Kind of Business: 1970 to 1988

[**In billions of dollars.** Based on 1972 Standard Industrial Classification. See headnote, table 1361. Based on Current Business Survey, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series T 245-271]

SIC [1] code	KIND OF BUSINESS	1970	1980	1983	1984	1985	1986	1987	1988
	Retail trade, total	**375.2**	**957.4**	**1,167.9**	**1,281.7**	**1,365.8**	**1,436.0**	**1,521.4**	**1,629.2**
	Durable goods stores, total [2]	**114.8**	**299.2**	**390.9**	**453.8**	**496.6**	**538.3**	**572.5**	**628.5**
55 exc. 554	Automotive dealers	65.2	164.1	229.1	271.0	299.2	320.1	334.4	369.0
551,2,5,6,7,9	Motor vehicle, misc. automotive dealers	59.2	146.2	206.9	247.7	273.6	294.4	307.1	339.0
551,2	Motor vehicle dealers	57.2	137.7	197.0	234.1	258.7	277.7	289.3	320.9
551	Motor vehicle dealers, franchised	54.3	130.5	187.0	224.2	248.7	266.0	274.5	303.2
553	Auto and home supply stores	6.0	18.0	22.2	23.4	25.6	25.6	27.4	30.1
52	Building materials, hardware, garden supply, mobile home dealers [2]	18.1	50.8	58.5	66.6	70.4	75.8	81.5	88.9
521,3	Building materials, supply stores	11.3	35.0	40.8	46.1	49.1	54.1	57.9	63.1
525	Hardware stores	3.0	8.3	9.5	11.0	11.6	12.3	13.2	14.0
57	Furniture, home furnishings, equipment [2]	17.0	44.2	55.3	63.0	71.3	80.3	84.6	93.0
571	Furniture, home furnishings stores	10.4	26.3	31.1	35.2	37.6	41.9	43.0	45.8
5722,32	Household appliance, radio, TV	5.6	14.0	20.1	23.7	29.2	33.3	35.8	40.6
	Nondurable goods stores, total [2]	**260.3**	**658.1**	**777.0**	**827.8**	**869.2**	**897.6**	**948.9**	**1,000.6**
56	Apparel and accessory stores [2]	22.1	49.3	60.0	63.9	69.5	74.6	78.0	82.0
561	Men's, boys' clothing, furnishings	4.5	7.7	8.0	8.2	8.5	8.7	9.1	9.3
562,3,8	Women's clothing, specialty stores, furriers	8.2	17.6	22.0	24.2	26.9	29.6	30.6	31.9
562	Women's ready-to-wear stores	7.1	15.9	20.1	21.6	24.3	26.7	27.7	28.9
565	Family clothing stores	4.4	10.8	15.1	15.8	16.8	17.8	19.4	20.9
566	Shoe stores	4.5	10.5	11.9	12.2	12.8	13.6	14.2	14.5
591	Drug and proprietary stores	14.6	31.0	40.7	44.3	47.4	51.2	55.0	58.7
58	Eating and drinking places	30.5	90.1	112.5	119.6	125.1	135.3	147.7	157.5
5812	Eating places	25.5	80.4	102.7	109.4	114.2	123.6	135.8	145.8
54	Food stores	90.0	220.2	256.9	273.8	288.0	301.1	314.6	331.9
541	Grocery stores	82.6	205.6	241.1	258.0	271.9	284.1	295.3	310.7
554	Gasoline service stations	28.9	94.1	101.8	105.2	109.6	97.3	98.7	101.9
53	General merchandise group stores	49.1	108.7	135.1	148.7	155.9	165.1	176.0	183.8
531	Department stores [3]	37.4	88.3	112.0	123.8	129.4	137.2	146.4	154.0
533	Variety stores	6.1	7.8	8.6	9.1	9.1	8.3	8.1	8.2
539	Misc. gen. merchandise group stores [4]	5.7	12.6	14.5	15.8	17.3	19.6	21.4	21.6
592	Liquor stores	8.4	16.9	19.1	18.1	19.3	19.6	19.5	19.1
596	Non-store retailers	9.1	22.8	24.3	25.7	25.0	25.7	28.8	31.0
5961 pt.	Mail-order houses (department store merchandise)	1.8	4.3	4.3	4.8	4.2	3.7	3.4	3.4

[1] Standard Industrial Classification; see text, section 13. [2] Includes kinds of business, not shown separately. [3] Excludes leased departments. [4] Includes catalog showroom stores.

Source: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Retail Sales and Inventories, January 1979 Through December 1988*, (BR88-R) and unpublished data.

No. 1363. Retail Trade—Sales of Multiunit Organizations, by Kind of Business: 1980 to 1988

[Data based on sales of companies which had 11 or more retail establishments according to the most recent update of multiestablishment files selected with certainty (i.e., their sales size exceeded specified dollar volume cutoffs which varied by kind of business). For details, see source. See also *Historical Statistics, Colonial Times to 1970*, series T 197–219]

SIC [1] code	KIND OF BUSINESS	SALES (bil. dol.)							PERCENT OF TOTAL RETAIL SALES	
		1980	1983	1984	1985	1986	1987	1988	1980	1988
	Total sales	**357.2**	**448.3**	**485.2**	**511.5**	**533.7**	**567.5**	**598.6**	**37.3**	**36.7**
	Durable goods stores	**34.2**	**45.1**	**51.3**	**55.1**	**59.7**	**67.8**	**74.5**	**11.4**	**11.9**
553	Auto and home supply stores	4.7	5.1	5.4	6.0	6.7	7.3	7.6	26.2	25.4
	Nondurable goods stores [2]	**322.9**	**403.2**	**433.9**	**456.4**	**474.0**	**499.7**	**524.1**	**49.1**	**52.4**
56	Apparel and accessory stores [2]	21.1	29.2	31.8	35.5	39.0	41.9	43.9	42.7	53.5
562,3,8	Women's ready-to-wear, accessory and fur	8.3	10.9	12.0	14.0	15.8	16.8	17.1	47.1	53.7
566	Shoe stores	5.3	6.8	7.1	7.6	8.4	8.6	9.0	50.8	62.5
591	Drug and proprietary stores	16.8	23.6	26.4	28.2	29.8	32.3	34.5	54.3	58.8
54	Food stores	119.8	146.0	155.2	164.1	171.0	179.2	187.7	54.4	56.6
541	Grocery stores	118.1	143.6	152.9	161.6	168.3	176.4	184.8	57.4	59.5
53	General merchandise group	98.5	124.9	137.8	144.2	153.1	162.3	170.5	90.6	92.8
531	Department stores	84.9	108.3	119.8	125.3	133.1	142.0	149.1	96.1	96.8
533	Variety stores	6.3	7.1	7.5	7.5	6.6	6.5	6.5	80.9	79.3
539	Misc. general merchandise group stores	7.3	9.5	10.5	11.3	13.3	13.8	15.0	58.1	69.5
5812	Eating places	22.6	29.3	31.5	32.8	35.0	37.8	39.3	28.1	27.0

[1] Standard Industrial Classification; see text, section 13. [2] Includes kinds of business not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports*, series BR, *Revised Monthly Retail Sales and Inventories, January 1979 through December 1988*, (BR88–R).

No. 1364. Retail Trade—Merchandise Inventories and Sales-Inventory Ratios, by Kind of Business: 1985 to 1988

[As of **Dec. 31.** Includes warehouses. See headnote, table 1361]

SIC [1] code	KIND OF BUSINESS	INVENTORIES AT COST [2] (bil. dol.)				SALES-INVENTORY RATIOS [3]			
		1985	1986	1987	1988	1985	1986	1987	1988
	Total	**175.8**	**180.2**	**201.8**	**215.8**	**7.8**	**8.0**	**7.5**	**7.5**
	Total (excluding automotive dealers)	**130.0**	**134.8**	**145.2**	**155.1**	**8.2**	**8.3**	**8.2**	**8.1**
	Durable goods stores [4]	**87.7**	**89.7**	**105.7**	**114.5**	**5.7**	**6.0**	**5.4**	**5.5**
55 exc. 554	Automotive dealers	45.9	45.4	56.6	60.7	6.5	7.0	5.9	6.1
551,2,5,6,7,9	Motor vehicle and misc. automotive dealers	41.1	40.7	51.5	(NA)	6.7	7.2	6.0	(NA)
551,2	Motor vehicle dealers	37.6	37.1	47.3	(NA)	6.9	7.5	6.1	(NA)
551	Motor vehicle dealers (franchised)	36.1	35.4	45.0	(NA)	6.9	7.5	6.1	(NA)
553	Automotive and home supply stores	4.8	4.7	5.1	(NA)	5.4	5.4	5.4	(NA)
52	Building materials, hardware, garden supplies, mobile home dealers	13.0	13.3	14.1	14.9	5.4	5.7	5.8	6.0
521,3,5	Building materials, supply, hardware stores	11.2	11.7	12.2	(NA)	5.4	5.7	5.8	(NA)
521,3	Building materials and supply stores	8.1	8.4	8.8	(NA)	6.0	6.4	6.6	(NA)
525	Hardware stores	3.1	3.2	3.4	(NA)	3.8	3.8	3.9	(NA)
57	Furniture, home furnishings, equipment stores [4]	14.3	15.2	16.2	18.0	5.0	5.3	5.2	5.2
571	Furniture, home furnishings	7.0	7.3	7.8	(NA)	5.4	5.7	5.5	(NA)
5712	Furniture stores	4.8	5.0	5.2	(NA)	4.9	5.1	5.1	(NA)
5722,32	Household appliance, radio, TV	6.1	6.5	6.9	(NA)	4.8	5.2	5.2	(NA)
5722	Household appliance stores	1.5	1.8	1.8	(NA)	5.9	5.8	5.7	(NA)
5944	Jewelry stores	4.4	4.5	4.8	(NA)	2.4	2.5	2.5	(NA)
	Nondurable goods stores [4]	**88.1**	**90.5**	**96.1**	**101.4**	**9.9**	**9.9**	**9.9**	**9.9**
56	Apparel and accessory stores [4]	14.4	14.6	15.7	16.2	4.8	5.1	5.0	5.1
561	Men's, boys' clothing, furnishings	2.1	2.0	2.1	(NA)	4.1	4.3	4.2	(NA)
562	Women's ready-to-wear stores	3.9	4.1	4.6	(NA)	6.2	6.5	6.0	(NA)
565	Family clothing stores	3.5	3.6	3.8	(NA)	4.8	5.0	5.2	(NA)
566	Shoe stores	3.1	3.2	3.4	(NA)	4.1	4.3	4.1	(NA)
591	Drug and proprietary stores	8.8	9.8	10.3	(NA)	5.4	5.2	5.4	(NA)
58	Eating and drinking places	3.2	3.4	3.5	(NA)	39.2	40.1	42.4	(NA)
54	Food stores	19.7	20.0	20.5	21.9	14.6	15.0	15.3	15.2
541	Grocery stores	18.9	19.2	19.6	(NA)	14.4	14.8	15.0	(NA)
554	Gasoline service stations	3.2	2.9	3.0	(NA)	34.2	34.1	32.8	(NA)
53	General merchandise group stores	30.6	31.4	33.5	35.2	5.1	5.3	5.3	5.2
531,9	Dept. stores, misc. general merchandise stores	28.4	29.3	31.4	(NA)	5.2	5.4	5.3	(NA)
531	Department stores	23.9	24.7	26.5	28.3	5.4	5.6	5.5	5.4
533	Variety stores	2.3	2.1	2.1	(NA)	4.0	3.9	3.9	(NA)
592	Liquor stores	2.3	2.3	2.5	(NA)	8.4	8.5	7.9	(NA)

NA Not available. [1] Standard Industrial Classification; see text, section 13. [2] Excludes supplies and equipment used in store and warehouse operations that are not for resale. Not adjusted for seasonal variation. [3] Relates annual sales to yearend inventories. [4] Includes kinds of businesses not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports*, series BR, *Annual* and *Monthly Retail Trade Reports*.

No. 1365. Retail Foodstores—Number and Sales, by Type: 1980 to 1988

Type of foodstore	Number (1,000)					Sales [2] (bil. dol.)					Percent distribution			
											Number		Sales	
	1980	1985 [1]	1986 [1]	1987 [1]	1988 [1]	1980	1985	1986	1987	1988	1980	1987	1980	1987
Total	**245.8**	**238.1**	**236.9**	**235.8**	**234.6**	**220.2**	**288.6**	**301.8**	**314.3**	**331.0**	**100.0**	**100.0**	**100.0**	**100.0**
Grocery stores	172.5	166.8	166.3	165.9	165.5	205.6	271.9	284.1	296.1	311.8	70.2	70.4	93.4	94.2
Supermarkets [3]	26.3	27.3	27.0	26.5	26.3	157.0	201.5	210.5	219.2	[1] 230.9	10.7	11.2	71.3	69.8
Convenience stores [4]	35.8	45.4	47.0	50.0	(NA)	18.9	33.7	34.9	35.9	(NA)	14.6	21.2	8.6	11.4
Superette [5]	110.4	94.1	92.3	89.4	(NA)	29.7	36.7	38.6	41.0	(NA)	44.9	37.9	13.5	13.0
Specialized food stores [6]	73.3	71.3	70.6	69.9	69.1	14.6	16.7	17.6	18.2	19.2	29.8	29.6	6.6	5.8

NA Not available. [1] Estimated. [2] Includes nonfood items. [3] A grocery store, primarily self-service in operation, providing a full range of departments, and having at least $2.5 million in annual sales in 1985 dollars. [4] A small grocery store selling a limited variety of food and nonfood products, typically open extended hours. [5] A grocery store, primarily self-service in operation, selling a wide variety of food and nonfood products with annual sales below $2.5 million (1985 dollars). [6] Primarily engaged in the retail sale of a single food category such as meat and seafood stores and retail bakeries.

No. 1366. Supermarkets—Number and Sales, by Type of Format: 1980 to 1988

[For definition of supermarket, see footnote 3, table 1365]

Supermarket format	Number				Sales (bil. dol.)				Percent distribution			
									Number		Sales	
	1980	1984	1986	1988	1980	1984	1986	1988	1980	1988	1980	1988
Supermarkets, total	**26,321**	**26,947**	**27,005**	**26,300**	**157.0**	**192.8**	**210.5**	**230.9**	**100.0**	**100.0**	**100.0**	**100.0**
Conventional	21,009	17,644	17,169	15,590	114.7	95.8	99.8	98.8	79.8	57.8	73.1	42.8
Superstore [1]	3,150	4,608	4,994	5,600	27.8	54.6	57.9	69.5	12.0	20.8	17.7	30.1
Warehouse [2]	1,670	3,584	3,332	3,375	6.6	22.9	25.9	28.8	6.3	12.5	4.2	12.5
Combination food and drug [3]	475	943	1,133	1,250	6.3	15.4	16.8	19.9	1.8	4.6	4.0	8.6
Superwarehouse [4]	7	108	297	375	1.6	3.3	6.7	8.9	(Z)	1.4	1.0	3.9
Hypermarket [5]	10	60	80	110	(NA)	.8	3.4	5.0	(Z)	.4	(NA)	2.2

NA Not available. Z Less than .05 percent. [1] Contains greater variety of products than conventional supermarkets, including specialty and service departments, and considerable nonfood (general merchandise) products. [2] Contains limited product variety and fewer services provided, incorporating case lot stocking and shelving practices. [3] Contains a pharmacy, a nonprescription drug department, and a greater variety of health and beauty aids than that carried by conventional supermarkets. [4] A larger warehouse store that offers-expanded product variety and often service meat, deli, or seafood departments. [5] A very large store offering a greater variety of general merchandise—like clothes, hardware, and seasonal goods—and personal care products than other grocery stores.

Source of tables 1365 and 1366: U.S. Dept. of Agriculture, Economic Research Service, *Food Marketing Review,* annual.

No. 1367. Commercial and Institutional Groups—Food and Drink Sales: 1970 to 1989

[Excludes military. Data refer to sales to consumers of food and alcoholic beverages. Sales are estimated. For details, see source]

Type of group	Number, 1987	Sales (mil. dol.)							
		1970	1980	1984	1985	1986	1987	1988 [1]	1989 [1]
Total	**635,130**	**42,199**	**119,004**	**164,126**	**173,889**	**187,984**	**202,098**	**211,983**	**226,202**
Commercial foodservice [2] [3]	464,053	34,829	101,529	143,265	152,864	166,322	179,669	188,716	202,035
Eating places [2]	278,635	21,614	72,276	104,521	111,598	121,937	131,527	137,443	147,117
Restaurants, lunchrooms	127,844	13,348	39,307	55,112	58,444	62,391	66,634	70,134	74,384
Limited menu restaurants [4]	131,146	6,190	28,699	43,719	47,191	52,509	57,234	60,124	65,054
Bars and taverns [5]	32,308	5,008	7,785	8,255	8,428	8,976	9,434	9,840	10,332
Food contractors [2]	9,026	2,442	6,818	8,907	9,460	10,095	11,075	11,836	12,817
Manufacturing and industrial plants	(NA)	915	2,121	2,616	2,721	2,824	3,042	3,367	3,657
Colleges and universities	(NA)	496	1,140	1,612	1,738	1,882	2,057	2,236	2,433
Lodging places [2]	26,652	2,585	6,768	10,026	10,699	11,383	12,328	13,066	13,941
Hotel restaurants	15,940	1,554	4,964	8,110	8,748	9,404	10,263	10,950	11,750
Motel restaurants	8,926	643	1,151	1,190	1,209	1,225	1,275	1,299	1,340
Retail hosts [2]	107,737	1,652	3,264	5,395	6,196	7,052	7,827	8,752	9,581
Department store restaurants	4,932	424	857	1,060	1,052	1,092	1,145	(NA)	(NA)
Grocery store restaurants	43,059	189	830	1,955	2,466	2,988	3,422	(NA)	(NA)
Gasoline service stations	31,405	109	492	1,048	1,291	1,527	1,733	(NA)	(NA)
Recreation and sports	6,607	514	1,452	1,906	1,957	2,055	2,213	2,287	2,425
Institutional foodservice [2]	171,077	7,370	17,475	20,861	21,025	21,661	22,429	23,266	24,168
Employee foodservice	8,080	688	1,635	1,904	1,971	1,976	1,976	1,932	1,916
Industrial and commercial organizations	3,465	561	1,377	1,630	1,682	1,694	1,680	(NA)	(NA)
Educational foodservice	94,183	2,102	4,610	5,749	5,978	6,253	6,542	6,790	7,034
Elementary and secondary schools	91,387	1,163	2,312	2,780	2,919	3,060	3,189	3,360	3,501
Hospitals	6,773	2,991	6,668	7,391	7,104	7,170	7,436	7,496	7,706
Miscellaneous [2]	28,589	646	1,521	1,991	2,077	2,197	2,365	2,480	2,639
Clubs	10,310	525	1,056	1,467	1,537	1,620	1,743	(NA)	(NA)

NA Not available. [1] Projection. [2] Includes other types of groups, not shown separately. [3] Data for establishments with payroll. [4] Fast-food restaurants. [5] For establishments serving food.

Source: National Restaurant Association, Washington, DC, *Foodservice Numbers: A Statistical Digest for the Foodservice Industry,* 1986; *Foodservice Industry in Review,* annual; and *1989 National Restaurant Association Foodservice Industry Forecast,* December 1988. (Copyright.)

No. 1368. Shopping Centers—Number, Gross Leasable Area, and Retail Sales, by Gross Leasable Area: 1986 to 1988

[As of **December 31**. A shopping center is a group of architecturally unified commercial establishments built on a site which is planned, developed, owned and managed as an operating unit related in its location, size, and type of shops to the trade area that the unit serves. The unit provides on-site parking in definite relationship to the types and total size of the stores. The data base attempts to include all centers with 3 or more stores. Estimates are based on a sample of data available on shopping center properties; for details, contact source]

YEAR	Total	GROSS LEASABLE AREA (sq. ft.)					
		Less than 100,001	100,001-200,000	200,001-400,000	400,001-800,000	800,001-1,000,000	More than 1 million
NUMBER							
1986	28,496	18,230	6,692	2,083	918	261	312
1987	30,641	19,679	7,195	2,231	954	263	319
Percent change, 1986-1987	7.5	7.9	7.5	7.1	3.9	.8	2.2
1988	32,563	20,829	7,713	2,421	999	270	331
Percent distribution	100.0	64.0	23.7	7.4	3.1	.8	1.0
Percent change, 1987-1988	6.3	5.8	7.2	8.5	4.7	2.7	3.8
GROSS LEASABLE AREA							
1986 (mil. sq. ft.)	3,523	901	917	555	522	234	393
1987 (mil. sq. ft.)	3,723	967	984	593	539	236	403
Percent change, 1986-1987	5.7	7.3	7.4	7.0	3.3	.7	2.5
1988 (mil. sq. ft.)	3,947	1,022	1,058	643	563	242	420
Percent distribution	100.0	25.9	26.8	16.3	14.3	6.1	10.6
Percent change, 1987-1988	6.0	5.6	7.4	8.4	4.4	2.7	4.2
RETAIL SALES							
1986 (bil. dol.)	556.5	160.3	140.4	84.8	73.9	36.2	60.8
1987 (bil. dol.)	602.3	174.5	153.0	92.5	78.4	38.5	65.4
Percent change, 1986-1987	8.2	8.9	8.9	9.0	6.2	6.2	7.6
1988 (bil. dol.)	641.1	185.9	162.9	98.3	83.4	40.9	69.8
Percent distribution	100.0	29.0	25.4	15.3	13.0	6.4	10.9
Percent change, 1987-1988	6.4	6.5	6.5	6.3	6.3	6.4	6.6

Source: National Research Bureau, 310 South Michigan Avenue, Chicago, IL 60604. Data published by Communication Channels Inc., Atlanta, GA, in *Shopping Center World*, February issues. (Copyright.)

No. 1369. Shopping Centers—Number, Gross Leasable Area, and Retail Sales by State: 1988

[Minus sign (–) indicates decrease. See headnote, table 1368]

DIVISION AND STATE	Number	Gross leasable area (mil. sq. ft.)	Retail sales (mil. dol.)	PERCENT CHANGE, 1987-1988		
				Number	Gross leasable area	Retail sales per sq. ft.
U.S	**32,563**	**3,947**	**641,093**	**6.3**	**6.0**	**.4**
N.E	**1,897**	**207.0**	**33,477**	**4.6**	**5.3**	**.6**
ME	152	13.8	2,424	2.0	.2	5.8
NH	142	14.3	2,310	9.2	9.2	–1.7
VT	85	5.7	992	3.7	1.9	4.3
MA	788	88.8	14,332	5.1	5.2	.6
RI	164	14.4	2,377	2.5	3.1	2.5
CT	566	70.0	11,042	4.2	6.6	–.7
M.A	**3,188**	**459.0**	**71,902**	**6.0**	**6.4**	**–.9**
NY	1,269	176.7	28,832	3.3	3.0	2.5
NJ	736	109.8	17,170	8.7	8.2	–2.0
PA	1,183	172.5	25,900	7.3	9.0	–3.7
E.N.C	**4,577**	**604.3**	**94,247**	**6.2**	**6.3**	**–1.3**
OH	1,221	178.9	27,487	5.4	6.5	–1.6
IN	734	91.7	14,234	6.5	7.8	–2.7
IL	1,365	170.7	26,704	7.4	6.8	–1.4
MI	781	104.6	16,526	7.0	4.3	.4
WI	476	58.4	9,296	3.3	6.0	–.8
W.N.C	**2,029**	**256.5**	**42,024**	**3.5**	**2.7**	**2.7**
MN	374	52.6	8,787	2.2	1.5	4.3
IA	236	31.2	5,049	3.1	1.9	2.4
MO	729	89.9	14,666	4.4	3.0	2.5
ND	66	8.4	1,373	6.5	3.0	2.8
SD	38	5.2	841	5.6	3.3	2.0
NE	186	24.0	3,772	5.7	6.7	–1.3
KS	400	45.2	7,536	1.8	1.9	3.8
S.A	**7,315**	**875.0**	**141,301**	**9.4**	**8.7**	**–1.3**
DE	95	16.0	2,566	6.7	5.3	.9
MD	681	98.1	15,368	9.1	8.0	–1.6
DC	53	6.8	1,125	3.9	2.7	2.8
S.A.—Con.						
VA	919	119.1	18,959	10.1	7.6	.8
WV	130	17.2	2,664	4.0	5.9	–1.3
NC	1,076	112.4	18,038	10.3	8.7	–2.0
SC	608	61.6	9,871	9.6	9.4	–2.6
GA	1,148	117.9	19,219	7.8	9.5	–2.0
FL	2,605	325.9	53,491	10.0	9.2	–1.0
E.S.C	**2,303**	**246.8**	**39,641**	**6.9**	**6.2**	**–.5**
KY	522	55.8	9,171	4.2	2.7	2.5
TN	880	95.4	14,613	11.8	11.7	–5.1
AL	547	62.8	10,228	4.4	4.1	1.6
MS	354	32.8	5,629	3.5	2.0	3.8
W.S.C	**4,079**	**460.2**	**79,859**	**1.6**	**1.8**	**5.4**
AR	317	29.9	5,002	1.9	2.9	2.8
LA	606	72.8	12,227	2.7	2.1	3.9
OK	510	52.4	8,900	1.4	2.6	3.9
TX	2,646	305.1	53,730	1.4	1.4	6.3
Mt	**2,267**	**261.1**	**44,090**	**5.1**	**5.3**	**2.2**
MT	78	7.8	1,300	5.4	4.0	1.5
ID	108	13.5	2,167	6.9	6.8	–.8
WY	45	5.4	911	4.7	–	6.2
CO	628	80.0	13,597	2.0	2.8	4.4
NM	236	23.2	3,981	3.5	3.6	3.6
AZ	794	83.9	14,202	7.2	8.6	–.1
UT	164	25.0	4,128	7.2	4.7	2.4
NV	214	22.3	3,804	5.9	5.6	2.1
Pac	**4,908**	**577.0**	**94,552**	**8.2**	**7.1**	**.2**
WA	532	69.8	10,794	6.4	9.4	–3.0
OR	342	38.9	5,840	11.8	12.2	–6.2
CA	3,856	448.5	74,548	8.3	6.3	1.2
AK	49	6.5	1,103	8.9	10.1	–.1
HI	129	13.3	2,267	4.9	4.2	2.4

– Represents zero.

Source: National Research Bureau, 310 South Michigan Avenue, Chicago, IL 60604. Data published by Communication Channels Inc., Atlanta, GA, in *Shopping Center World*, February 1989. (Copyright.)

No. 1370. Retail Sales—

[In millions of dollars, except as indicated.

Division and state	All stores [1]				Food stores				General merchandise stores			
		1988			Total		Supermarkets		Total		Department stores	
	1982, total	Total	Sales per household [2] Amount (dol.)	Sales per household [2] Percent change, 1982–1988	1982	1988	1982	1988	1982	1988	1982	1988
U.S	**1,065,918**	**1,637,722**	**17,891**	**40.2**	**246,458**	**336,988**	**231,000**	**315,965**	**120,528**	**186,738**	**99,185**	**156,646**
N.E	**62,093**	**107,880**	**22,147**	**59.8**	**13,629**	**20,750**	**12,465**	**19,007**	**6,174**	**10,404**	**5,179**	**8,877**
ME	5,332	9,305	20,228	55.2	1,311	1,877	1,247	1,789	465	751	341	567
NH	5,354	10,527	26,122	64.9	1,278	2,174	1,209	2,062	527	1,063	415	851
VT	2,601	4,463	21,252	52.0	612	917	585	879	173	268	120	190
MA	28,816	49,038	22,089	59.3	6,006	9,308	5,371	8,338	3,000	4,647	2,538	3,991
RI	4,163	7,085	18,995	57.9	923	1,399	802	1,216	448	752	387	657
CT	15,829	27,462	22,809	61.8	3,500	5,075	3,251	4,723	1,561	2,923	1,379	2,621
M.A	**159,349**	**257,005**	**18,169**	**52.4**	**38,078**	**56,287**	**34,220**	**50,573**	**17,381**	**26,673**	**14,742**	**23,122**
NY	72,267	119,200	17,529	56.4	17,446	26,285	15,361	23,137	7,612	11,867	6,296	10,066
NJ	36,307	59,150	20,805	50.5	8,610	12,894	7,639	11,761	3,637	5,897	3,163	5,232
PA	50,776	78,655	17,471	47.7	12,022	17,108	11,020	15,675	6,131	8,909	5,283	7,824
E.N.C	**180,556**	**269,467**	**17,145**	**41.2**	**40,116**	**51,939**	**37,456**	**48,561**	**22,119**	**33,478**	**19,081**	**29,280**
OH	46,315	66,522	16,209	36.3	11,145	13,573	10,447	12,729	6,156	9,001	5,360	7,950
IN	23,724	35,310	17,000	40.3	5,299	6,674	5,023	6,340	2,678	3,874	2,252	3,279
IL	50,747	75,708	17,509	42.1	10,561	13,866	9,844	12,952	5,921	8,843	5,061	7,686
MI	39,216	60,250	17,752	44.7	8,518	11,041	7,835	10,166	4,944	7,648	4,437	6,983
WI	20,554	31,677	17,415	43.7	4,594	6,785	4,307	6,374	2,420	4,112	1,970	3,382
W.N.C	**78,094**	**115,012**	**17,009**	**38.6**	**16,879**	**22,454**	**16,034**	**21,364**	**9,103**	**14,827**	**7,399**	**12,316**
MN	19,599	31,320	19,345	47.3	3,922	5,660	3,675	5,314	2,259	4,196	1,894	3,584
IA	12,646	17,007	15,646	31.8	3,012	3,780	2,877	3,619	1,366	2,061	1,066	1,623
MO	21,655	32,870	16,702	41.1	4,888	6,338	4,658	6,051	2,790	4,580	2,402	4,007
ND	3,367	4,496	18,129	28.7	579	772	547	731	349	542	285	452
SD	2,989	4,283	15,981	33.1	617	847	586	806	256	457	189	341
NE	6,995	10,046	16,335	37.5	1,459	1,958	1,387	1,866	797	1,127	598	849
KS	10,842	14,990	15,680	30.0	2,402	3,099	2,304	2,977	1,286	1,864	966	1,460
S.A	**176,375**	**295,572**	**18,441**	**45.4**	**41,345**	**59,491**	**39,223**	**56,541**	**19,521**	**33,321**	**15,412**	**26,904**
DE	3,131	5,076	20,803	42.2	679	927	620	847	418	691	360	604
MD	20,983	33,854	19,961	43.6	4,696	6,276	4,344	5,816	2,458	3,553	2,117	3,114
DC	2,654	3,659	14,754	38.4	495	635	450	578	225	296	189	256
VA	24,706	43,447	19,500	54.0	5,843	8,582	5,580	8,205	2,881	5,336	2,237	4,255
WV	7,521	10,753	15,188	41.4	2,022	2,420	1,954	2,342	1,006	1,486	797	1,201
NC	25,005	41,374	16,929	44.9	6,207	8,694	6,010	8,436	2,508	4,707	1,668	3,324
SC	12,498	20,216	16,503	43.5	3,190	4,550	3,099	4,430	1,244	2,189	905	1,632
GA	24,408	42,199	18,236	47.5	5,582	8,362	5,368	8,051	2,764	4,924	2,200	4,032
FL	55,469	94,994	19,300	42.0	12,631	19,045	11,799	17,836	6,017	10,139	4,938	8,486
E.S.C	**57,701**	**86,835**	**15,353**	**38.9**	**14,460**	**16,984**	**13,973**	**16,438**	**6,959**	**11,018**	**5,115**	**8,348**
KY	14,572	23,022	16,646	48.7	3,665	4,546	3,506	4,355	1,757	2,756	1,369	2,220
TN	19,605	29,250	15,794	35.0	4,720	5,423	4,567	5,258	2,363	3,791	1,828	3,008
AL	14,480	21,624	14,397	37.8	3,708	4,247	3,595	4,127	1,663	2,595	1,190	1,914
MS	9,044	12,939	14,079	33.6	2,367	2,767	2,304	2,698	1,177	1,876	728	1,206
W.S.C	**127,444**	**167,080**	**17,196**	**20.3**	**30,030**	**39,389**	**28,877**	**37,954**	**14,440**	**20,060**	**11,419**	**16,327**
AR	9,114	12,742	14,111	29.9	2,130	2,977	2,065	2,893	1,154	1,914	967	1,632
LA	19,986	25,746	16,536	23.7	5,039	6,669	4,854	6,437	2,326	3,013	1,733	2,324
OK	16,071	19,196	15,493	16.6	3,805	4,364	3,693	4,244	1,812	2,196	1,294	1,661
TX	82,274	109,396	18,184	18.8	19,056	25,379	18,265	24,380	9,148	12,937	7,424	10,710
Mt	**59,298**	**83,569**	**17,160**	**23.6**	**14,086**	**18,237**	**13,539**	**17,550**	**5,859**	**9,511**	**4,621**	**7,736**
MT	3,955	4,551	14,970	11.3	955	1,086	918	1,045	306	433	199	303
ID	4,060	5,131	14,135	17.7	1,065	1,175	1,037	1,146	310	505	203	359
WY	2,819	2,759	15,676	.7	636	583	617	567	191	279	87	131
CO	16,581	21,782	17,205	18.7	3,764	4,570	3,612	4,389	1,666	2,655	1,423	2,287
NM	6,319	8,340	15,502	15.5	1,523	1,694	1,455	1,619	587	1,008	413	778
AZ	13,894	24,116	18,826	39.6	3,423	5,493	3,292	5,292	1,491	2,652	1,186	2,171
UT	6,327	8,943	17,067	28.4	1,513	1,982	1,448	1,900	711	1,073	579	890
NV	5,343	7,947	19,058	19.8	1,207	1,654	1,160	1,592	597	906	530	817
Pac	**165,008**	**255,302**	**18,535**	**36.4**	**37,836**	**51,457**	**35,212**	**47,977**	**18,972**	**27,446**	**16,219**	**23,736**
WA	20,008	30,148	16,592	33.9	4,896	6,757	4,669	6,455	2,178	3,077	1,838	2,628
OR	12,634	17,724	16,083	29.5	2,738	3,425	2,597	3,256	1,787	2,628	1,394	2,092
CA	123,946	195,758	18,958	38.5	28,393	38,857	26,285	36,036	14,012	20,339	12,327	18,095
AK	3,227	3,922	22,284	2.2	709	1,017	685	985	335	545	216	327
HI	5,193	7,750	21,955	31.1	1,101	1,401	976	1,245	659	860	445	594

[1] Includes other types of stores, not shown separately. [2] Based on number of households as of July 1 as estimated by U.S. Bureau of the Census. [3] Includes hardware dealers. [4] Includes home furnishings stores.

BY TYPE OF STORE AND STATE: 1982 AND 1988

Data are estimates]

AUTOMOTIVE DEALERS		EATING AND DRINKING PLACES		GASOLINE SERVICE STATIONS		APPAREL AND ACCESSORIES STORES		BUILDING MATERIALS DEALERS [3]		FURNITURE AND APPLIANCE STORES [4]		DIVISION AND STATE
1982	1988	1982	1988	1982	1988	1982	1988	1982	1988	1982	1988	
193,896	**368,614**	**103,982**	**159,665**	**97,840**	**104,662**	**57,838**	**83,384**	**51,146**	**86,014**	**47,141**	**90,712**	**U.S.**
10,359	**24,188**	**6,046**	**11,877**	**5,299**	**5,889**	**3,540**	**5,592**	**2,850**	**5,671**	**2,406**	**5,129**	**N.E.**
933	2,167	425	892	406	539	216	303	311	575	144	272	ME
962	2,474	428	894	411	527	249	428	337	830	200	416	NH
473	1,056	223	460	226	271	109	186	176	347	81	176	VT
4,651	10,738	3,108	6,029	2,387	2,584	1,793	2,735	1,176	2,314	1,170	2,492	MA
633	1,482	404	791	380	445	237	347	176	333	145	322	RI
2,706	6,271	1,457	2,811	1,489	1,523	938	1,593	675	1,272	666	1,451	CT
24,938	**54,028**	**15,096**	**24,518**	**12,328**	**12,620**	**10,341**	**16,037**	**6,097**	**11,380**	**7,352**	**16,421**	**M.A.**
9,955	22,175	7,420	12,415	4,625	4,723	5,295	8,172	2,591	5,018	3,608	8,666	NY
6,208	13,344	3,227	4,983	3,251	3,334	2,287	3,721	1,361	2,551	1,743	4,129	NJ
8,774	18,509	4,449	7,120	4,452	4,563	2,759	4,144	2,145	3,811	2,002	3,626	PA
32,365	**62,240**	**18,183**	**24,390**	**19,154**	**20,727**	**9,426**	**12,828**	**7,982**	**14,815**	**7,473**	**14,631**	**E.N.C.**
7,981	15,020	4,683	6,069	5,408	5,486	1,956	2,682	1,837	3,160	1,808	3,400	OH
4,410	8,932	2,333	3,101	2,790	3,131	1,079	1,559	1,166	2,066	902	1,751	IN
8,959	16,464	5,138	6,825	4,716	5,077	3,291	4,360	2,143	4,047	2,203	4,382	IL
7,521	14,570	3,819	5,369	4,069	4,649	2,249	2,950	1,790	3,672	1,683	3,352	MI
3,494	7,254	2,211	3,026	2,171	2,384	851	1,257	1,046	1,870	877	1,746	WI
14,940	**27,239**	**7,183**	**11,050**	**8,436**	**9,353**	**3,773**	**4,882**	**4,657**	**7,224**	**3,143**	**4,892**	**W.N.C.**
3,542	7,052	1,801	3,026	2,108	2,531	922	1,298	1,221	1,904	776	1,250	MN
2,374	3,928	1,137	1,552	1,416	1,474	618	724	798	1,031	485	760	IA
4,063	8,009	2,037	3,221	2,299	2,659	1,015	1,323	1,100	2,053	822	1,280	MO
829	1,290	291	385	371	356	174	177	246	338	138	182	ND
589	1,034	275	409	370	377	147	181	204	296	114	165	SD
1,321	2,298	687	1,078	769	811	352	438	449	691	342	578	NE
2,222	3,628	956	1,379	1,104	1,145	544	741	638	911	467	677	KS
33,357	**70,488**	**16,667**	**27,345**	**16,262**	**18,887**	**9,227**	**13,447**	**8,757**	**14,942**	**8,299**	**17,498**	**S.A.**
525	1,133	266	411	274	324	169	222	158	289	136	281	DE
3,781	7,865	1,944	3,302	2,037	2,141	1,126	1,683	791	1,715	951	2,030	MD
127	170	563	804	185	164	241	309	40	51	132	181	DC
4,599	9,998	2,152	3,694	2,451	2,844	1,245	1,984	1,083	2,258	1,168	2,660	VA
1,351	2,457	544	777	738	891	338	394	455	643	291	494	WV
4,779	9,686	2,172	3,562	2,006	2,530	1,390	2,034	1,523	2,453	1,219	2,533	NC
2,218	4,402	1,114	1,810	1,250	1,432	692	1,011	728	1,165	585	1,274	SC
4,628	10,311	2,293	3,927	2,457	2,875	1,261	1,823	1,319	2,166	1,050	2,313	GA
11,348	24,466	5,619	9,058	4,883	5,686	2,766	3,987	2,661	4,202	2,767	5,732	FL
11,003	**22,007**	**4,741**	**7,083**	**5,646**	**6,389**	**2,936**	**3,895**	**2,893**	**4,037**	**2,286**	**4,361**	**E.S.C.**
2,511	5,296	1,277	2,103	1,628	1,966	642	882	758	1,139	538	1,141	KY
3,832	7,735	1,708	2,433	2,048	2,123	989	1,426	900	1,263	825	1,598	TN
2,874	5,711	1,126	1,685	1,237	1,422	857	1,052	753	1,064	583	1,078	AL
1,786	3,265	630	862	733	878	449	535	482	571	339	544	MS
27,341	**38,594**	**11,410**	**14,897**	**10,410**	**9,109**	**7,446**	**8,715**	**6,963**	**10,734**	**5,717**	**7,893**	**W.S.C.**
1,979	2,756	657	866	808	772	476	554	486	930	338	488	AR
3,770	5,126	1,843	2,305	1,601	1,372	1,147	1,291	1,171	1,717	932	1,251	LA
3,713	4,509	1,440	1,742	1,174	1,164	958	1,045	945	1,355	730	1,110	OK
17,880	26,203	7,470	9,984	6,827	5,801	4,864	5,825	4,361	6,732	3,717	5,044	TX
11,253	**18,629**	**6,059**	**8,736**	**5,874**	**6,515**	**2,752**	**3,472**	**3,429**	**4,416**	**2,672**	**4,004**	**Mt.**
746	968	424	485	403	410	201	166	272	280	173	196	MT
815	1,254	375	477	368	458	179	194	263	311	173	222	ID
496	596	284	307	407	335	139	117	201	140	98	90	WY
3,150	4,528	1,854	2,472	1,472	1,563	785	941	966	1,057	796	1,106	CO
1,274	1,901	629	910	632	688	328	352	398	497	251	354	NM
2,620	5,613	1,428	2,398	1,342	1,751	558	938	695	1,181	657	1,230	AZ
1,196	2,001	511	837	675	763	297	420	369	454	315	474	UT
957	1,768	553	850	575	547	264	344	265	496	209	332	NV
28,340	**51,201**	**18,596**	**29,769**	**14,411**	**15,173**	**8,396**	**14,516**	**7,518**	**12,795**	**7,793**	**15,883**	**Pac.**
3,250	6,010	2,268	3,481	1,737	1,763	986	1,736	1,101	1,655	845	1,462	WA
2,258	3,840	1,353	1,914	1,147	1,160	601	828	565	795	517	888	OR
21,861	39,682	13,684	22,450	10,901	11,676	6,297	11,133	5,354	9,857	6,131	13,159	CA
419	570	411	493	215	181	130	216	344	216	133	113	AK
551	1,099	880	1,431	411	393	383	603	154	272	167	261	HI

Source: Market Statistics, New York, NY, *The Survey of Buying Power Data Service,* annual (copyright).

No. 1371. Domestic and International Franchising—Summary: 1970 to 1988

[Franchising is a form of marketing or distribution in which a parent company customarily grants an individual or a company the right, or privilege, to do business in a prescribed manner over a certain period of time in a specified place. The parent company is termed the franchisor; the receiver of the privilege the franchisee; and the right, or privilege, the franchise]

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987 [1]	1988 [1]
DOMESTIC [2]											
Number of franchised establishments	1,000	**396**	**435**	**442**	**439**	**442**	**444**	**455**	**462**	**479**	**509**
Company-owned [3]	1,000	72	81	85	87	86	87	86	88	89	92
Franchisee-owned	1,000	324	354	357	352	355	357	369	374	390	417
Sales of products and services	Bil. dol.	**120**	**191**	**336**	**376**	**423**	**492**	**543**	**569**	**599**	**640**
Company-owned [3]	Bil. dol.	23	29	47	55	59	64	68	85	90	97
Franchisee-owned	Bil. dol.	96	162	289	321	364	428	475	484	509	543
Average sales per establishment	$1,000	302	439	760	856	958	1,108	1,193	1,231	1,251	1,256
Employment	1,000	(NA)	3,511	4,668	4,927	5,165	5,671	6,283	6,501	(NA)	(NA)
INTERNATIONAL											
U.S. companies operating foreign outlets	Number	[4] 156	222	279	295	305	328	342	354	(NA)	(NA)
Foreign outlets	1,000	[4] 3.4	11.0	20.4	23.5	25.7	27.0	30.2	31.6	(NA)	(NA)

NA Not available. [1] Estimated by respondents to annual survey of franchisors. [2] Excludes foreign outlets of U.S. companies. [3] Represents establishments owned by the parent company. [4] 1971 data.

Source: U.S. Dept. of Commerce, International Trade Administration, *Franchising in the Economy, 1986–88,* 1988.

No. 1372. Domestic Franchising—Number of Establishments and Sales, by Kind of Franchised Business: 1970 to 1988

[See headnote, table 1371, for definition of franchising. Excludes foreign outlets of U.S. companies]

KIND OF FRANCHISED BUSINESS	NUMBER OF ESTABLISHMENTS (1,000)							SALES (bil. dol.)						
	1970	1975	1980	1985	1986	1987 [1]	1988 [1]	1970	1975	1980	1985	1986	1987 [1]	1988 [1]
All franchising, total	**396.3**	**434.5**	**442.4**	**455.2**	**462.1**	**479.1**	**509.3**	**119.8**	**190.9**	**336.2**	**543.0**	**569.1**	**599.4**	**639.6**
Auto and truck dealers [2]	37.2	31.8	29.4	27.5	27.6	27.6	27.8	58.8	94.5	143.9	282.6	307.3	319.7	335.4
Percent	9.4	7.3	6.6	6.0	6.0	5.8	5.5	49.1	49.5	42.8	52.0	54.0	53.3	52.4
Restaurants (all types)	32.6	43.0	60.0	73.9	78.2	83.3	90.8	4.6	12.3	27.9	47.7	52.3	56.8	63.2
Percent	8.2	9.9	13.6	16.2	16.9	17.4	17.8	3.8	6.4	8.3	8.8	9.2	9.5	9.9
Gasoline service stations [2]	222.0	189.5	158.5	124.6	120.5	115.9	112.0	29.3	47.4	94.5	100.8	86.6	89.2	91.9
Percent	56.0	43.6	35.8	27.4	26.1	24.2	22.0	24.5	24.8	28.1	18.6	15.2	14.9	14.4
Retailing (nonfood)	30.7	37.2	35.2	45.1	45.5	47.9	52.9	13.1	9.0	10.5	20.6	23.1	25.4	28.5
Percent	7.7	8.6	8.0	9.9	9.8	10.0	10.4	11.0	4.7	3.1	3.8	3.7	4.2	4.5
Auto, truck rental services	[3] 10.7	6.5	7.3	11.2	9.5	10.0	10.6	[3] 1.2	1.5	3.1	5.7	6.2	6.5	7.0
Automotive products and services [4]	20.4	47.5	40.2	36.5	36.7	39.3	41.5	1.9	5.0	7.1	10.7	11.3	12.3	13.7
Business aids and services	10.5	22.2	40.7	49.8	52.7	56.7	63.0	.7	1.4	6.7	12.0	13.3	14.7	16.8
Employment services	2.9	2.7	4.4	4.8	5.6	6.1	6.9	.5	.6	1.6	2.7	3.2	3.7	4.2
Tax preparation services	4.7	7.5	9.2	8.1	8.3	8.5	8.6	.1	.2	.3	.4	.5	.5	.5
Accounting, credit, collection, and general	1.1	3.5	2.4	2.1	1.9	2.0	2.2	(Z)	.2	.1	.2	.2	.2	.2
Real estate [5]	(NA)	3.8	17.3	13.9	14.0	15.2	16.9	(NA)	.2	3.6	4.6	5.1	5.6	6.4
Printing and copying	.3	1.1	2.8	4.5	4.9	5.6	6.4	.1	.1	.4	.9	1.0	1.2	1.4
Other	1.4	3.4	4.8	16.4	18.0	19.4	22.0	.1	.2	.8	3.1	3.3	3.5	4.1
Construction, home improvement, maintenance, and cleaning	.7	10.8	14.3	17.5	18.9	21.7	25.5	.1	.6	1.5	4.1	4.6	5.2	6.2
Convenience stores	8.8	13.5	15.6	15.1	15.5	16.3	17.2	1.7	3.9	7.8	10.8	11.3	12.3	13.6
Educational products and services	4.9	1.3	3.2	8.2	8.6	9.6	10.6	.1	.2	.3	.8	.9	1.0	1.2
Equipment rental services	([3])	1.4	2.2	2.5	2.7	2.8	3.3	([3])	.2	.4	.7	.7	.7	.8
Food retailing [6]	(NA)	11.8	15.5	18.7	19.9	20.5	23.6	(NA)	1.4	7.4	10.1	10.7	11.1	12.1
Hotels and motels [7]	3.4	6.4	6.4	7.5	8.2	9.3	10.4	3.5	4.6	9.5	14.8	16.0	17.7	19.7
Laundry, dry cleaning services	4.1	3.2	3.4	2.3	2.3	2.2	2.6	.1	.2	.3	.3	.3	.3	.4
Recreation, entertainment, travel	2.7	3.4	4.6	7.8	7.9	8.2	8.9	.1	.2	.5	2.3	3.5	4.0	5.0
Soft drink bottlers [2] [8]	2.7	2.4	1.9	1.4	1.2	1.1	1.1	4.1	8.2	14.4	18.3	19.7	20.9	22.1
Miscellaneous	4.8	2.7	3.6	5.5	6.1	6.8	7.7	.3	.4	.4	.9	1.3	1.5	1.9

NA Not available. Z Less than $50 million. [1] Estimated by respondents. [2] Estimated by source on basis of Bureau of the Census and trade association data. [3] Equipment rental services included with auto, truck rental services. [4] Includes some establishments with significant sales of nonautomotive products such as household appliances, garden supplies, etc. [5] Gross commissions. [6] Excludes convenience stores. [7] Beginning 1975, includes campgrounds. [8] Includes soft drinks, fruit drinks and ades, syrups, flavoring agents and bases. Excludes independent private label and contract-filler bottling companies, which accounted for 22 percent of the value of shipments of the total industry in recent years.

Source: U.S. Dept. of Commerce, International Trade Administration, *Franchising in the Economy, 1986–88,* 1988.

No. 1373. Franchised New Car Dealerships—Summary: 1970 to 1988

[Calendar year, except as indicated]

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Dealerships [1]	**Number**	**30,800**	**28,250**	**26,600**	**25,700**	**24,725**	**24,725**	**24,725**	**25,100**	**25,150**	**25,000**
Sales	Bil. dol	51.8	130.5	144.5	154.7	187.0	224.2	248.7	266.0	274.5	303.2
New cars	1,000	8,393	8,979	8,533	7,980	9,182	10,390	11,038	11,455	10,277	10,639
Used vehicles	1,000	11,283	9,717	10,187	9,940	10,805	12,289	13,026	13,209	13,215	14,207
Employment	1,000	702.9	753.7	705.1	702.3	748.8	813.8	861.4	894.2	914.7	920.0
Annual payroll	Bil. dol	5.5	11.2	11.6	12.6	15.0	18.2	20.2	21.6	22.4	23.2
Advertising expenses	Bil. dol	.4	1.2	1.3	1.4	1.7	2.1	2.8	3.2	3.6	4.1
Dealer pretax profits as a percentage of sales	Percent	2.00	.61	1.16	1.30	2.14	2.18	2.20	2.16	1.88	1.71
Inventory: [2]											
Domestic: [3]											
Total	1,000	1,409	1,506	1,457	1,294	1,209	1,413	1,510	1,687	1,724	1,543
Days' supply	Days	60	71	74	71	55	55	58	63	75	63
Imported: [3]											
Total	1,000	(NA)	458	427	381	260	216	271	392	551	626
Days' supply	Days	(NA)	55	52	54	34	26	30	37	53	62

NA Not available. [1] At beginning of year. [2] Annual average. [3] Classification based on where automobiles are produced (i.e., automobiles manufactured by foreign companies but produced in the U.S. are classified as domestic).

Source: National Automobile Dealers Association, McLean, VA, *NADA Data*, annual.

No. 1374. Wholesale Trade—Summary: 1958 to 1987

[Data for 1972 through 1987 not strictly comparable with prior years due to changes in Standard Industrial Classification; for details, see source. See also *Historical Statistics, Colonial Times to 1970*, series T 43–47, and T 274–279]

ITEM	Unit	1958	1963	1967	1972	1977	1982	1987
Firms, total	1,000	(NA)	232	233	276	289	321	(NA)
Establishments, total [1]	1,000	287	308	311	370	383	435	467
With sales of $1,000,000 or more	1,000	(NA)	62	75	103	152	(NA)	(NA)
Sales, all establishments	Bil. dol.	285.7	358.4	459.5	695.2	1,258.4	1,997.9	2,523.7
Merchant wholesalers	Bil. dol.	122.1	157.4	206.1	353.9	677.5	1,159.3	1,477.1
Inventories, end of year [2]	Bil. dol.	15.0	20.1	28.1	45.7	82.3	130.7	165.1
Payroll, entire year	Bil. dol.	13.2	18.1	23.9	36.9	58.3	95.2	133.2
Paid employees, Mar. 12 workweek [3]	1,000	2,808	3,089	3,519	4,026	4,397	4,985	5,594

NA Not available. [1] Through 1977 number of establishments in business at end of year; beginning 1982 number of establishments in business at any time during year. [2] 1987 inventories not strictly comparable with prior years. [3] 1958 and 1963 data for workweek including Nov. 15.

Source: U.S. Bureau of the Census, *U.S. Census of Business: 1958*, vol. III; *1963*, vol. IV; *1967*, vol. III; and *Census of Wholesale Trade: 1972*, vol. I; *1977*, WC77–A–52; *1982*, WC82–A–52; and *1987*, WC87–A–52.

No. 1375. Wholesale Trade, by Type of Operation and Kind of Business: 1982 and 1987

[See *Historical Statistics, Colonial Times to 1970*, series T 274–287 and T 352–369 for similar but not comparable data]

TYPE OF OPERATION AND KIND OF BUSINESS	ESTABLISHMENTS [1] (1,000)		SALES (mil. dol.)		ANNUAL PAYROLL (mil. dol.)		PAID EMPLOYEES [2] (1,000)	
	1982	1987	1982	1987	1982	1987	1982	1987
Wholesale trade	**435.1**	**466.7**	**1,997,895**	**2,523,688**	**95,209**	**133,153**	**4,985**	**5,594**
Merchant wholesalers	353.1	388.1	1,159,334	1,477,132	69,936	100,210	3,918	4,461
Other operating types	82.1	78.6	838,561	1,046,557	25,273	32,944	1,067	1,133
Durable goods	**267.4**	**292.8**	**881,212**	**1,258,483**	**57,368**	**82,248**	**2,913**	**3,303**
Motor vehicles, automotive equipment	41.1	43.0	187,607	(D)	7,524	(D)	433	(D)
Furniture, home furnishings	13.1	14.5	32,452	48,123	2,367	3,652	126	153
Lumber, construction materials	17.9	19.1	50,694	79,946	3,429	5,476	184	231
Sporting, recreational, photographic goods [3]	7.6	8.9	26,980	40,965	1,646	2,312	85	97
Metals and minerals, except petroleum	10.6	11.1	102,690	114,528	3,359	4,038	148	143
Electrical goods	30.4	35.3	120,062	(D)	7,462	(D)	357	(D)
Hardware, plumbing, heating equipment	21.6	23.1	43,529	57,126	4,051	5,610	217	235
Machinery, equipment, supplies	103.4	114.4	263,309	336,976	24,804	35,612	1,192	1,353
Miscellaneous	21.7	23.4	53,889	75,506	2,726	3,777	171	184
Nondurable goods	**167.8**	**173.9**	**1,116,683**	**1,265,205**	**37,841**	**50,905**	**2,072**	**2,290**
Paper, paper products	14.5	16.8	53,493	83,173	3,586	5,202	187	228
Drugs, drug proprietaries [4]	4.0	4.9	33,987	64,280	1,975	2,968	106	133
Apparel, piece goods, notions	15.0	16.9	55,897	81,476	2,897	4,661	144	181
Groceries and related products	40.4	42.1	288,659	380,945	12,269	16,729	674	763
Farm-product raw materials	14.4	12.6	153,419	117,606	1,839	1,847	136	117
Chemicals, allied products	11.2	12.7	76,103	94,620	2,902	3,847	124	131
Petroleum, petroleum products	20.3	16.7	296,995	234,874	3,433	3,658	188	175
Beer, wines, distilled alcoholic beverages	6.7	5.8	42,122	49,433	3,091	3,849	141	146
Miscellaneous	41.2	45.3	116,008	158,800	5,849	8,143	372	417

D Data withheld to avoid disclosure. [1] Number of establishments in business at any time during the year. [2] For pay period including March 12. [3] Includes toys, hobby goods, and supplies. [4] Includes druggists sundries.

Source: U.S. Bureau of the Census, *Census of Wholesale Trade, 1982*, Geographic Area Series, WC82–A–52, and *1987*, Geographic Area Series, WC87–A–52.

No. 1376. Merchant Wholesalers—Summary: 1980 to 1988

[Data reflect latest revision. Based on Current Business Survey; see Appendix III. See *Historical Statistics, Colonial Times to 1970*, series T 280–371, for related sales data]

SIC [1] code	KIND OF BUSINESS	1980	1982	1983	1984	1985	1986	1987	1988
	SALES (bil. dol.)								
	Merchant wholesalers	**1,124.5**	**1,155.5**	**1,202.9**	**1,358.3**	**1,371.8**	**1,388.1**	**1,483.0**	**1,588.3**
50	**Durable goods**	**483.1**	**480.3**	**521.9**	**620.2**	**648.7**	**678.0**	**725.7**	**782.7**
501	Motor vehicles and automotive equipment	83.1	91.4	103.0	123.4	136.2	148.7	152.2	164.0
502	Furniture and home furnishings	16.3	17.7	19.7	22.7	22.4	23.2	25.2	28.0
503	Lumber and other construction material	36.4	33.1	40.9	45.0	46.9	51.0	57.3	55.7
504	Sporting, recreational, photographic, and hobby goods, toys and supplies	(S)	(S)	(S)	15.4	18.2	20.7	22.1	24.5
505	Metals and minerals, except petroleum	63.4	52.5	50.9	61.3	55.3	51.6	57.8	69.0
506	Electrical goods	48.9	55.8	67.5	87.2	89.4	92.0	97.7	104.1
507	Hardware, plumbing and heating equipment	29.1	29.3	31.7	36.3	39.0	41.1	44.2	47.0
508	Machinery, equipment, and supplies	140.7	140.9	140.9	167.2	172.6	175.4	187.7	209.2
509	Miscellaneous durable goods	52.5	46.0	53.3	61.8	68.7	74.3	81.4	81.3
51	**Nondurable goods**	**641.4**	**675.2**	**681.0**	**738.1**	**723.1**	**710.1**	**757.3**	**805.6**
511	Paper and paper products	22.6	25.9	28.2	33.6	35.3	38.2	44.3	51.7
512	Drugs, drug proprietaries and druggists' sundries	13.6	18.6	19.8	22.3	25.4	28.4	32.8	36.5
513	Apparel, piece goods and notions	28.5	(S)	33.4	37.6	40.3	41.6	45.4	50.2
514	Groceries and related products	155.4	174.7	187.6	203.1	207.7	221.9	222.4	223.9
515	Farm-product raw materials	125.4	114.6	126.5	133.2	103.7	94.1	102.2	126.0
516	Chemicals and allied products	(S)	(S)	21.2	22.2	22.6	22.7	25.2	34.8
517	Petroleum and petroleum products	171.5	(S)	(S)	(S)	154.1	124.6	135.2	127.5
518	Beer, wine, and distilled beverages	31.9	36.5	36.8	37.6	39.2	40.6	43.4	43.7
519	Miscellaneous nondurable goods	77.5	88.5	87.8	95.4	94.7	98.2	106.5	111.3
	INVENTORIES [2] (bil. dol.)								
	Merchant wholesalers	**123.0**	**128.2**	**130.3**	**142.4**	**146.7**	**152.4**	**162.6**	**178.3**
50	**Durable goods**	**78.7**	**84.9**	**84.4**	**94.4**	**96.0**	**100.6**	**106.5**	**115.7**
501	Motor vehicles and automotive equipment	12.4	14.3	13.6	15.7	16.9	18.9	20.5	21.5
502	Furniture and home furnishings	2.5	2.5	2.6	3.0	3.2	3.3	3.9	4.0
503	Lumber and other construction material	(S)	(S)	4.2	4.5	4.7	5.1	5.4	5.5
504	Sporting, recreational, photographic, and hobby goods, toys and supplies	(S)	(S)	(S)	3.0	3.3	4.0	4.1	4.5
505	Metals and minerals, except petroleum	10.6	11.5	9.6	9.4	7.9	7.2	7.4	9.0
506	Electrical goods	7.6	9.0	9.5	12.7	12.5	13.4	13.8	14.8
507	Hardware, plumbing and heating equipment	5.3	5.2	5.5	6.3	6.4	6.8	7.1	7.3
508	Machinery, equipment, and supplies	29.3	31.7	31.7	33.8	34.8	34.8	36.2	41.3
509	Miscellaneous durable goods	(S)	(S)	5.1	6.0	6.4	7.1	7.9	7.9
51	**Nondurable goods**	**44.3**	**43.3**	**45.9**	**48.0**	**50.8**	**51.8**	**56.2**	**62.6**
511	Paper and paper products	2.0	2.2	2.7	3.0	3.3	3.6	3.7	4.3
512	Drugs, drug proprietaries and druggists' sundries	(S)	(S)	(S)	(S)	3.4	4.2	4.7	5.2
513	Apparel, piece goods and notions	(S)	(S)	5.7	6.3	6.5	7.3	7.6	7.8
514	Groceries and related products	7.8	8.2	8.9	9.7	10.9	12.2	12.5	12.6
515	Farm-product raw materials	7.6	6.4	7.6	7.3	7.9	6.2	7.2	9.6
516	Chemicals and allied products	(S)	(S)	(S)	(S)	2.2	2.2	2.4	3.0
517	Petroleum and petroleum products	(S)	(S)	(S)	(S)	4.4	3.9	3.6	3.9
518	Beer, wine, and distilled beverages	3.2	3.6	3.4	3.7	4.0	4.1	4.2	4.2
519	Miscellaneous nondurable goods	7.2	7.6	7.8	8.6	8.1	8.5	10.3	12.1
	SALES/INVENTORY RATIO [2]								
	Merchant wholesalers	**9.14**	**9.01**	**9.23**	**9.54**	**9.35**	**9.11**	**9.12**	**8.91**
50	**Durable goods**	**6.14**	**5.66**	**6.18**	**6.57**	**6.76**	**6.74**	**6.81**	**6.76**
501	Motor vehicles and automotive equipment	6.73	6.37	7.57	7.86	8.06	7.87	7.42	7.63
502	Furniture and home furnishings	6.51	7.15	7.57	7.57	7.00	7.03	6.46	7.00
503	Lumber and other construction material	(S)	(S)	9.77	10.00	9.98	10.00	10.61	10.13
504	Sporting, recreational, photographic, and hobby goods, toys and supplies	(S)	(S)	(S)	5.13	5.52	5.18	5.39	5.44
505	Metals and minerals, except petroleum	5.97	4.57	5.30	6.52	7.00	7.17	7.81	7.67
506	Electrical goods	6.40	6.18	7.11	6.87	7.15	6.87	7.08	7.03
507	Hardware, plumbing and heating equipment	5.53	5.58	5.76	5.76	6.09	6.04	6.23	6.44
508	Machinery, equipment, and supplies	4.81	4.45	4.45	4.95	4.96	5.04	5.19	5.07
509	Miscellaneous durable goods	9.85	9.77	10.45	10.28	10.73	10.46	10.30	10.29
51	**Nondurable goods**	**14.49**	**15.59**	**14.83**	**15.38**	**14.23**	**13.71**	**13.48**	**12.87**
511	Paper and paper products	11.18	11.60	10.44	11.20	10.70	10.61	11.97	12.02
512	Drugs, drug proprietaries and druggists' sundries	(S)	(S)	(S)	(S)	7.47	7.10	6.98	7.02
513	Apparel, piece goods, and notions	(S)	(S)	5.86	5.97	6.20	5.70	5.97	6.44
514	Groceries and related products	19.81	21.41	21.08	20.94	19.06	18.19	17.79	17.77
515	Farm-product raw materials	16.57	17.95	16.64	18.25	13.13	15.27	14.19	13.13
516	Chemicals and allied products	(S)	(S)	(S)	(S)	10.27	10.32	10.50	11.60
517	Petroleum and petroleum products	(S)	(S)	(S)	(S)	35.02	31.95	37.56	32.69
518	Beer, wine, and distilled beverages	9.89	10.18	10.82	10.16	9.80	9.90	10.33	10.40
519	Miscellaneous nondurable goods	10.71	11.59	11.26	11.09	11.69	11.55	10.34	9.20

S Data do not meet publication standards. [1] Standard Industrial Classification; see text, section 13. [2] End of year inventories; seasonally adjusted.

Source: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Wholesale Trade Sales and Inventories, December 1980 Through December 1988*, (BW-13-88S) and earlier reports, and unpublished data.

No. 1377. Wholesale Trade—Summary, by State: 1982 and 1987

[Kind-of-business classification based on 1972 Standard Industrial Classification code; see text, section 13]

Division and State	All establishments [1]											Merchant wholesalers	
	Establishments [2]		Sales (bil. dol.)		Paid employees [3] (1,000)		Annual payroll (mil. dol.)		Percent change, 1982–1987				
	1982	1987	1982	1987	1982	1987	1982	1987	Sales	Paid employees	Annual payroll	Establishments	Sales (bil. dol.)
U.S	**435,143**	**466,680**	**1,997.9**	**2,523.7**	**4,984.9**	**5,593.8**	**95,208.7**	**133,153.3**	**26.3**	**12.2**	**39.9**	**388,125**	**1,477.1**
N.E	**21,371**	**23,628**	**97.6**	**146.1**	**262.3**	**322.6**	**5,073.1**	**8,482.0**	**49.7**	**23.0**	**67.2**	**19,565**	**92.3**
ME	1,731	1,845	4.2	6.5	17.5	22.6	260.7	460.2	54.5	28.8	76.5	1,675	4.9
NH	1,550	1,952	4.1	6.8	16.5	22.5	292.7	559.8	65.4	36.4	91.2	1,648	4.7
VT	840	978	1.9	2.8	8.8	10.2	125.8	204.7	50.8	17.0	62.7	892	2.6
MA	10,083	11,029	49.8	74.7	132.3	160.5	2,654.0	4,386.1	50.1	21.3	65.3	8,905	42.7
RI	1,627	1,708	5.0	6.0	17.7	22.2	307.1	489.1	21.7	25.0	59.3	1,494	4.6
CT	5,540	6,116	32.7	49.2	69.4	84.6	1,432.7	2,382.1	50.5	21.8	66.3	4,951	32.9
M.A	**74,664**	**78,914**	**429.0**	**532.7**	**863.0**	**983.3**	**17,853.5**	**25,986.9**	**24.2**	**13.9**	**45.6**	**66,286**	**336.8**
NY	40,687	41,647	261.2	283.7	430.2	465.4	9,205.4	12,635.7	8.6	8.2	37.3	35,706	203.4
NJ	15,331	17,575	89.4	144.6	211.4	270.7	4,481.4	7,524.1	61.8	28.0	67.9	14,518	81.0
PA	18,646	19,692	78.4	104.4	221.3	247.2	4,166.7	5,827.1	33.1	11.7	39.8	16,062	52.4
E.N.C	**71,790**	**75,156**	**329.4**	**431.6**	**844.1**	**954.4**	**16,702.0**	**22,924.5**	**31.0**	**13.1**	**37.3**	**60,908**	**222.1**
OH	17,725	18,577	79.6	104.0	220.8	247.5	4,237.9	5,757.0	30.7	12.1	35.8	14,596	49.9
IN	9,371	9,611	31.5	40.5	98.9	107.8	1,687.2	2,338.2	28.4	9.0	38.6	8,133	24.5
IL	22,633	23,521	131.1	167.4	287.4	318.9	6,114.2	8,072.0	27.7	10.9	32.0	18,855	85.3
MI	13,559	14,682	59.8	86.0	146.5	178.7	3,041.3	4,562.1	43.8	22.0	50.0	11,783	40.1
WI	8,502	8,765	27.4	33.7	90.5	101.4	1,621.3	2,195.3	22.9	12.0	35.4	7,541	22.3
W.N.C	**41,926**	**40,506**	**175.4**	**196.0**	**429.1**	**441.1**	**7,692.9**	**9,607.7**	**11.8**	**2.8**	**24.9**	**34,454**	**117.3**
MN	9,387	9,436	47.4	55.3	103.6	114.1	2,046.9	2,819.8	16.6	10.1	37.8	7,747	33.1
IA	7,736	6,983	25.8	24.5	68.7	65.8	1,117.0	1,278.9	−5.2	−4.2	14.5	6,230	17.8
MO	10,626	10,605	49.4	53.5	121.7	124.8	2,264.0	2,815.1	8.3	2.6	24.3	8,710	30.1
ND	2,209	2,044	6.0	6.0	18.9	17.5	313.3	324.3	.5	−7.3	3.5	1,844	4.8
SD	1,889	1,783	4.9	5.2	16.0	15.3	225.9	254.7	7.0	−4.3	12.8	1,633	3.5
NE	4,245	3,949	17.4	21.3	42.5	43.0	703.3	834.2	22.6	1.2	18.6	3,518	11.6
KS	5,834	5,706	24.5	30.2	57.8	60.6	1,022.6	1,280.6	23.3	5.0	25.2	4,772	16.4
S.A	**64,742**	**75,290**	**244.5**	**360.7**	**729.1**	**895.3**	**12,796.2**	**20,047.5**	**47.5**	**22.8**	**56.7**	**62,410**	**188.1**
DE	858	985	7.3	7.9	13.6	15.5	314.1	451.5	8.0	13.4	43.7	836	2.5
MD	5,732	6,636	25.8	41.1	77.1	99.3	1,485.5	2,493.0	59.3	28.8	67.8	5,317	21.7
DC	515	551	2.6	2.8	9.2	8.8	193.2	231.3	8.6	−4.0	19.7	465	1.6
VA	7,260	8,369	28.7	44.7	90.8	114.6	1,602.3	2,618.3	55.8	26.1	63.4	6,996	24.8
WV	2,501	2,421	6.1	5.9	25.8	24.2	429.9	476.4	−2.8	−6.5	10.8	2,101	4.4
NC	10,706	12,037	39.6	57.0	115.7	139.8	1,939.3	3,059.3	44.1	20.8	57.7	9,811	27.0
SC	4,730	5,229	12.7	17.1	45.6	54.3	711.0	1,062.6	34.6	19.2	49.4	4,524	11.8
GA	11,870	13,580	56.1	86.8	139.6	177.8	2,558.8	4,110.5	54.8	27.3	60.6	10,663	34.9
FL	20,570	25,482	65.6	97.3	211.6	261.0	3,562.0	5,544.6	48.3	23.3	55.7	21,697	59.6
E.S.C	**23,856**	**24,778**	**87.5**	**109.3**	**267.6**	**296.3**	**4,372.8**	**6,031.3**	**25.0**	**10.7**	**37.9**	**20,977**	**64.6**
KY	5,592	5,582	19.2	24.4	59.6	63.3	966.4	1,236.8	27.2	6.2	28.0	4,755	13.6
TN	8,229	8,745	37.8	48.3	101.8	115.8	1,761.3	2,517.0	27.6	13.8	42.9	7,200	25.7
AL	6,190	6,626	19.6	24.3	67.8	77.3	1,073.9	1,545.4	23.8	14.0	43.9	5,629	15.4
MS	3,845	3,825	10.8	12.2	38.3	39.9	571.3	732.1	13.7	4.0	28.2	3,393	9.9
W.S.C	**52,102**	**52,344**	**279.8**	**258.6**	**625.5**	**569.0**	**11,692.2**	**12,554.8**	**−8.3**	**−9.0**	**7.4**	**43,528**	**146.6**
AR	3,950	3,976	10.7	12.8	38.6	38.8	576.1	703.7	19.7	.4	22.1	3,519	8.4
LA	8,038	7,598	36.1	31.5	98.0	80.3	1,740.1	1,650.4	−12.9	−18.0	−5.2	6,388	19.9
OK	6,489	5,913	28.1	20.2	71.4	54.7	1,306.4	1,115.4	−28.1	−23.4	−14.6	4,991	14.9
TX	33,625	34,857	205.0	192.1	417.5	395.2	8,069.6	9,085.2	−6.3	−5.4	12.6	28,630	103.5
Mt	**23,013**	**24,666**	**71.9**	**84.1**	**242.8**	**256.1**	**4,283.9**	**5,443.5**	**17.0**	**5.5**	**27.1**	**20,667**	**51.2**
MT	1,942	1,792	4.9	4.4	16.4	14.8	265.7	263.9	−11.1	9.8	−.7	1,615	3.3
ID	2,127	2,112	5.1	5.1	21.8	20.7	307.7	352.6	-	−4.8	14.6	1,877	3.7
WY	1,164	1,016	3.3	2.2	9.6	6.3	178.4	125.2	−33.1	−34.1	−29.8	861	1.8
CO	6,667	7,038	26.9	30.0	76.9	76.1	1,478.0	1,767.7	11.5	−1.0	19.6	5,613	15.4
NM	2,258	2,373	5.1	5.1	21.0	22.0	345.3	420.5	.8	4.7	21.8	2,051	3.9
AZ	4,814	5,826	13.9	20.8	52.4	64.5	906.3	1,418.3	49.1	23.2	56.5	4,840	12.3
UT	2,732	2,934	8.7	11.1	31.0	34.1	550.9	717.2	27.0	9.8	30.2	2,423	7.0
NV	1,309	1,575	3.9	5.5	13.8	17.6	251.6	378.2	41.8	27.7	50.3	1,387	3.8
Pac	**61,679**	**71,398**	**282.7**	**406.6**	**721.4**	**875.7**	**14,742.2**	**22,075.1**	**43.8**	**21.4**	**49.7**	**59,330**	**258.0**
WA	8,364	9,250	31.3	41.5	90.4	102.3	1,777.1	2,373.5	32.5	13.2	33.6	7,526	25.8
OR	5,491	5,878	26.9	29.9	58.4	63.7	1,106.9	1,460.5	11.0	9.1	31.9	4,925	19.7
CA	45,271	53,508	217.7	327.2	547.9	682.4	11,365.1	17,622.3	50.3	24.5	55.1	44,527	207.2
AK	743	773	2.7	2.7	7.4	7.1	205.5	204.3	−2.0	−3.6	−.6	643	1.6
HI	1,810	1,989	4.1	5.4	17.2	20.1	287.6	414.5	31.2	16.8	44.1	1,709	3.8

– Represents zero. [1] Includes other types of operations, not shown separately. [2] Number of establishments in business at any time during the year. [3] For the pay period including March 12.

Source: U.S. Bureau of the Census, *1987 Census of Wholesale Trade*, Geographic Area series, WC87-A-1 to 51.

No. 1378. Selected Service Industries—Summary: 1982 and 1987

[For establishments with payroll]

1972 SIC [1] code	Kind of business	Establishments [2] (1,000)		Receipts or expenses [3] (mil. dol.)		Paid employees [4] (1,000)	
		1982	1987	1982	1987	1982	1987
(X)	**Firms subject to Federal income tax [5]**	**1,339.2**	**1,624.6**	**426,982**	**752,474**	**11,106**	**15,688**
70	Hotels, rooming houses, camps, and other lodging places	44.3	46.8	33,215	51,865	1,102	1,411
72	Personal services	179.6	196.1	22,980	35,133	970	1,209
73	Business services	230.1	339.3	106,866	216,807	3,152	5,250
75	Automotive repair, services, and parking	123.6	151.2	30,695	51,423	553	785
76	Miscellaneous repair services	58.2	65.5	14,133	20,838	300	346
78, 79	Amusement and recreation services [6]	73.0	74.3	33,115	52,808	804	929
80 ex. 806	Health services, except hospitals	360.4	405.4	95,610	162,569	2,433	3,226
81	Legal services	122.7	138.2	34,325	66,998	569	808
823, 4, 9	Selected educational services	7.8	10.6	2,400	4,882	68	109
83	Social services	29.7	43.1	3,636	7,330	222	357
891	Engineering, architectural, surveying services	47.6	62.3	34,315	53,563	581	747
893	Accounting, auditing, and bookkeeping services	55.3	69.8	14,596	24,483	330	448
(X)	**Firms exempt from Federal income tax [5]**	**151.6**	**169.9**	**54,522**	**87,448**	**2,280**	**2,773**
805, 8, 9	Selected health services	10.2	13.2	10,438	19,084	476	684
83	Social services	54.2	63.0	16,455	26,884	904	1,110
861, 2, 4, 9	Selected membership organizations	63.2	68.0	15,093	22,028	493	539

X Not applicable. [1] Based on 1972 Standard Industrial Classification; see text, section 13. [2] Number of establishments in business at any time during the year. [3] Receipts refer to establishments subject to Federal income tax. Expenses refer to establishments exempt from Federal income tax. [4] For pay period including March 12. [5] Excludes hospitals. Includes other kinds of business, not shown separately. [6] Includes motion pictures.

Source: U.S. Bureau of the Census, *1987 Census of Service Industries*, Geographic Area Series, SC87-A-52.

No. 1379. Service Industries—Summary of Establishments with Payroll, by State: 1987

[Based on 1987 Standard Industrial Classification code, see text, section 13]

Division and state	Firms subject to Federal income tax: Establishments [1] (1,000)	Receipts (mil. dol.)	Paid employees [2] (1,000)	Tax-exempt firms: Establishments [1]	Revenues (mil. dol.)
U.S.	**1,626.0**	**772,194**	**16,055**	**175,829**	**267,490**
N.E.	**98.3**	**49,017**	**996**	**13,154**	**19,578**
ME	8.2	2,321	58	1,406	1,258
NH	8.4	3,031	68	1,127	984
VT	4.4	1,353	37	897	587
MA	44.4	27,016	523	6,005	11,115
RI	7.1	2,604	61	895	1,417
CT	25.8	12,692	250	2,824	4,216
M.A.	**256.4**	**139,697**	**2,582**	**28,944**	**54,676**
NY	126.7	74,289	1,293	13,891	30,583
NJ	59.6	32,175	596	4,196	7,618
PA	70.1	33,232	694	10,857	16,475
E.N.C.	**248.4**	**108,039**	**2,459**	**30,592**	**49,332**
OH	63.9	26,449	648	8,222	12,973
IN	30.3	11,204	282	4,396	5,389
IL	70.7	36,500	730	7,907	15,201
MI	55.4	23,860	533	6,205	10,827
WI	28.1	10,026	265	3,862	4,942
W.N.C.	**109.6**	**41,339**	**1,021**	**17,372**	**20,282**
MN	26.5	11,621	295	4,412	5,781
IA	16.4	5,121	131	3,122	2,928
MO	32.9	13,707	324	3,679	6,078
ND	3.9	1,090	28	920	843
SD	4.3	1,002	27	957	757
NE	10.1	3,547	89	1,679	1,583
KS	15.5	5,251	128	2,603	2,312
S.A.	**283.1**	**134,151**	**2,932**	**27,001**	**42,376**
DE	4.4	2,108	46	562	730
MD	31.2	17,467	369	3,156	5,570
DC	7.5	7,883	121	2,183	5,841
S.A.—Con.					
VA	38.3	20,415	439	3,885	6,304
WV	8.9	2,917	67	1,407	1,625
NC	36.0	12,830	331	3,884	5,083
SC	18.8	6,355	170	1,756	2,217
GA	39.2	18,646	415	3,140	5,131
FL	98.7	45,531	975	7,028	9,875
E.S.C.	**78.4**	**30,064**	**723**	**8,638**	**11,777**
KY	18.4	6,325	166	2,213	2,655
TN	27.8	12,010	283	3,010	4,320
AL	20.5	8,397	190	1,947	3,024
MS	11.7	3,332	84	1,468	1,778
W.S.C.	**165.8**	**71,248**	**1,545**	**14,803**	**19,659**
AR	12.4	3,703	94	1,579	1,751
LA	25.5	10,243	241	2,087	3,334
OK	19.5	6,348	149	2,133	2,616
TX	108.4	50,953	1,061	9,004	11,959
Mt.	**98.0**	**44,770**	**994**	**9,868**	**11,371**
MT	6.2	1,402	36	1,170	779
ID	6.2	2,064	48	727	594
WY	3.8	883	22	640	403
CO	28.6	11,533	256	2,780	3,580
NM	9.5	4,223	88	1,232	1,124
AZ	25.3	10,639	244	2,020	3,241
UT	10.1	3,833	94	768	1,114
NV	8.3	10,192	206	531	536
Pac.	**288.0**	**153,870**	**2,802**	**25,457**	**38,438**
WA	33.2	12,852	277	4,238	4,578
OR	20.7	6,471	157	2,467	2,611
CA	222.6	128,546	2,248	17,048	29,382
AK	3.9	1,544	28	706	644
HI	7.5	4,456	92	998	1,222

[1] Number of establishments in business at any time during year. [2] For the pay period including March 12.

Source: U.S. Bureau of the Census, *1987 Census of Service Industries*, Geographic Area Series, SC87-A-1 to 52.

NO. 1380. SERVICE INDUSTRIES—SUMMARY OF ESTABLISHMENTS, BY TAX STATUS: 1987

[Covers only establishments with payroll. See *Historical Statistics, Colonial Times to 1970*, series T 391-443, for similar but not comparable data]

1987 SIC code [1]	KIND OF BUSINESS	Establishments [2] (1,000)	Receipts or revenues [3] (mil. dol.)	Annual payroll (mil. dol.)	Paid employees [4] (1,000)	Receipts or revenues per establishment [3] ($1,000)	Annual payroll per employee (dol.)
(x)	**Firms subject to Federal income tax [5]**	**1,626.0**	**772,194**	**289,807**	**16,054.7**	**474.9**	**18,051**
70 ex. 704	Hotels, rooming houses, camps, and other lodging places [5 6]	46.8	51,865	14,452	1,410.8	1,108.4	10,244
7011 pt.	Hotels	14.4	39,469	11,596	1,052.1	2,748.9	11,022
7011 pt.	Motels, motor hotels, and tourist courts	26.1	10,903	2,539	328.1	418.3	7,737
703	Camps and recreational vehicle parks	4.6	1,246	255	22.2	271.6	11,494
72	Personal services [5]	185.4	31,491	10,853	1,105.0	169.8	9,822
721	Laundry, cleaning, and garment services	50.9	12,860	4,388	408.3	252.6	10,746
722	Photographic studios, portrait	9.5	2,045	514	50.1	215.6	10,253
723, 4	Beauty and barber shops	86.5	7,869	3,538	390.7	91.0	9,055
726	Funeral service and crematories	15.5	5,343	1,362	82.6	343.7	16,479
73	Business services [5]	251.9	166,322	66,456	4,414.4	660.3	15,054
731	Advertising	17.2	14,278	5,537	181.6	830.2	30,493
732	Consumer credit, mercantile reporting agencies [7]	7.1	4,124	1,415	82.8	582.8	17,078
733	Mailing, reproduction, commercial art [8]	27.2	12,407	3,945	210.6	455.6	18,729
734	Services to dwellings and other buildings	47.6	13,185	6,555	746.0	277.1	8,788
735	Miscellaneous equipment rental and leasing	24.9	14,719	3,579	185.3	592.1	19,319
736	Personnel supply services	24.2	19,924	13,590	1,397.1	824.7	9,727
737	Computer programming, data processing [9]	39.7	54,099	19,142	637.4	1,362.7	30,031
7381, 2	Detective agencies and protective services	12.7	8,851	5,040	475.8	697.1	10,594
75	Automotive repair, services, and parking	151.2	51,423	11,690	785.3	340.1	14,886
751	Automotive rental and leasing, without drivers	11.4	16,441	2,366	134.6	1,448.2	17,578
752	Automobile parking	9.3	2,639	491	45.7	283.8	10,751
753	Automotive repair shops	114.6	28,664	7,727	485.6	250.1	15,913
754	Automotive services, except repair	16.0	3,679	1,106	119.4	230.4	9,258
76	Miscellaneous repair services [5]	65.5	20,838	6,416	345.8	318.0	18,551
762	Electrical repair shops	18.7	6,597	2,107	107.4	352.2	19,618
78, 79, 84	Amusement and recreation services [5 10]	99.5	57,638	15,474	1,094.4	579.4	14,139
781, 2	Motion picture prod., distribution, services	11.2	19,917	4,973	171.3	1,771.6	29,029
783	Motion picture theaters	7.8	3,977	584	94.1	511.5	6,211
784	Video tape rental	16.8	2,687	581	79.6	159.7	7,300
792	Theatrical producers, bands, entertainers [11]	7.8	4,904	1,607	55.2	625.0	29,092
794	Commercial sports	3.2	5,023	2,047	75.5	1,577.6	27,106
7996	Amusement parks	.7	3,470	820	60.4	4,663.8	13,566
7997	Membership sports and recreation clubs	7.7	3,700	1,173	112.7	483.1	10,403
80	Health services [5]	406.8	182,289	78,820	3,592.5	448.2	21,940
801	Offices and clinics of doctors of medicine	195.5	90,462	43,856	1,131.6	462.7	38,756
802	Offices and clinics of dentists	104.2	24,017	8,760	491.5	230.6	17,822
803	Offices and clinics of doctors of osteopathy	7.3	2,119	967	35.6	289.7	27,185
804	Offices and clinics of other health practitioners	55.6	10,341	3,193	188.8	186.1	16,910
805	Nursing and personal care facilities	13.4	20,063	9,465	961.6	1,495.5	9,843
806	Hospitals	1.4	19,720	6,582	366.5	14,136.2	17,958
807	Medical and dental laboratories	14.8	7,114	2,567	131.8	479.4	19,474
808	Home health care services	5.1	3,024	1,578	184.8	595.3	8,542
81	Legal services	138.2	66,998	26,078	807.6	484.7	32,291
823, 4, 9	Selected educational services [5]	10.6	4,882	1,657	109.4	460.8	15,144
824	Vocational schools	3.7	3,058	1,086	65.3	826.1	16,637
83	Social services [5]	43.1	7,330	2,971	357.3	170.2	8,315
835	Child day care services	26.8	2,944	1,307	199.7	109.8	6,547
836	Residential care	8.5	2,490	882	98.4	292.4	8,959
871	Engineering, architectural, and surveying services	62.3	53,563	23,175	747.0	859.8	31,024
872	Accounting, auditing, and bookkeeping services	69.8	24,483	10,204	448.1	350.9	22,768
873 ex. 8733	Research, development, and testing services [12]	12.4	14,184	5,615	222.2	1,144.8	25,266
874	Management and public relations services	60.5	35,114	14,515	551.8	580.4	26,303
(x)	**Firms exempt from Federal income tax [5]**	**175.8**	**267,490**	**117,976**	**6,736.7**	**1,521.3**	**17,513**
7032, 704	Camps and membership lodging	3.5	604	156	17.0	171.0	9,198
792	Theatrical producers, bands, entertainers [11]	2.1	1,781	728	56.5	835.1	12,895
7997	Membership sports and recreation clubs	6.5	3,694	1,467	116.4	564.0	12,607
84	Museums, art galleries, botanical gardens, and zoos	2.7	2,597	778	52.1	963.7	14,937
805	Nursing and personal care facilities	4.1	8,201	4,264	371.5	1,995.5	11,479
806	Hospitals	5.9	172,001	82,342	3,964.1	29,137.9	20,772
808	Home health care services	1.8	2,103	1,241	118.7	1,189.0	10,455
81	Legal aid societies and similar legal services	1.4	665	373	16.2	462.4	23,021
823, 4, 9	Selected educational services	4.7	1,753	615	49.3	370.8	12,476
83	Social services [5]	63.0	31,552	11,617	1,109.5	500.8	10,470
832	Individual and family social services	21.9	8,585	3,629	312.7	392.7	11,606
833	Job training, vocational rehabilitation services	5.0	3,664	1,741	238.2	732.0	7,307
835	Child day care services	13.8	2,233	1,239	155.4	161.6	7,973
836	Residential care	10.5	6,125	2,768	240.5	584.8	11,507
861	Business associations	12.3	6,756	1,996	87.5	549.3	22,819
862	Professional membership organizations	5.6	4,110	1,133	49.3	732.6	22,981
864	Civic, social, and fraternal associations	40.4	8,569	2,779	322.9	212.0	8,604
873	Research, development, and testing services	3.2	8,303	3,088	107.8	2,623.5	28,643

X Not applicable. [1] Based on 1987 Standard Industrial Classification; see text, section 13. [2] Represents the number of establishments in business at any time during year. [3] Receipts refer to establishments subject to Federal income tax. Revenues refer to establishments exempt from Federal income tax. [4] For pay period including March 12. [5] Includes other kinds of businesses, not shown separately. [6] Excludes membership lodging. [7] Includes adjustment and collection agencies. [8] Includes photography and stenographic services. [9] Includes other computer related services. [10] Includes motion pictures and museums. [11] Excludes motion picture producers and includes orchestras. [12] Excludes noncommercial research organizations.

Source: U.S. Bureau of the Census, *1987 Census of Service Industries*, Geographic Area Series, SC87-A-52 and unpublished data.

No. 1381. Services—Establishments, Employees, and Payroll: 1980 to 1986

[Excludes government employees, railroad employees, self-employed persons, etc. For statement on methodology, see Appendix III]

SIC [1] code	Kind of business	Establishments (1,000)			Employees (1,000)			Payroll (bil. dol.)	
		1980	1985	1986	1980	1985	1986	1985	1986
(I)	**Services, total** [2]	**1,278.2**	**1,711.8**	**1,811.3**	**17,186**	**21,549**	**22,878**	**346**	**381**
70	Hotels and other lodging places [2]	41.4	48.0	49.0	1,086	1,270	1,332	13	14
701	Hotels, motels, and tourist courts	32.1	37.0	37.6	1,034	1,210	1,269	12	13
72	Personal services [2]	152.3	175.2	179.0	953	1,069	1,117	10	11
721	Laundry, cleaning, and garment services [2]	40.2	44.9	45.9	359	372	384	4	4
7215	Coin-operated laundries and cleaning	9.7	10.4	10.4	36	37	39	1	2
7216	Dry cleaning plants, except rug	17.4	17.2	16.3	132	139	136	1	1
723	Beauty shops	65.7	72.1	73.3	285	318	332	3	3
726	Funeral service and crematories	14.0	14.6	14.4	71	75	77	1	1
73	Business services [2]	161.4	258.4	276.6	2,991	4,272	4,613	72	81
731	Advertising	10.6	15.6	16.2	140	185	187	5	6
7311	Advertising agencies	7.4	9.8	9.8	100	127	128	4	4
732	Credit reporting and collection	5.6	5.9	5.9	65	69	78	1	1
733	Mailing, reproduction, and stenographic services	14.6	20.3	20.6	136	190	198	3	4
7333	Commercial photography, art and graphics	7.0	10.2	10.1	53	64	65	1	2
734	Services to dwellings and other buildings	23.4	33.7	35.6	497	607	637	5	6
736	Personnel supply services [2]	13.7	17.9	19.0	569	865	971	9	11
7361	Employment agencies	8.0	10.0	10.5	109	158	192	2	3
7362	Temporary help supply services	5.2	7.5	8.1	416	669	738	6	7
737	Computer and data processing services [2]	13.6	26.1	27.1	303	515	554	14	16
7372	Computer programming and other software services	4.4	10.9	11.1	83	193	223	6	8
7374	Data processing services	6.2	7.6	7.3	187	253	256	6	6
739	Miscellaneous business services [2]	75.5	120.4	126.9	1,270	1,766	1,875	33	35
7391	Research and development laboratories	2.3	3.4	3.5	99	141	148	4	5
7392	Management and public relations	27.2	43.9	45.4	325	512	562	12	13
7393	Detective agencies and protective services	6.8	10.1	10.4	338	411	431	4	5
7394	Equipment rental and leasing services	12.1	23.0	26.1	115	216	222	5	4
7395	Photofinishing laboratories	2.7	5.0	5.3	75	75	76	1	1
75	Automotive repair, services, and garages [2]	99.5	127.6	133.6	560	676	727	10	11
751	Automotive rental, without drivers	8.7	9.7	9.8	101	120	138	2	2
7512	Passenger car rental and leasing	4.2	5.0	5.2	50	69	79	1	1
7513	Truck rental and leasing	4.1	4.2	3.9	49	49	56	1	1
753	Automotive repair shops	75.1	96.4	99.5	359	420	435	6	7
7531	Top and body repair shops	19.7	25.5	26.2	95	119	125	2	2
7538	General automotive repair shops	34.8	44.9	46.5	150	170	176	2	3
754	Automotive services, except repair	7.9	11.1	12.2	62	83	92	1	1
76	Miscellaneous repair services	48.0	56.7	58.4	319	327	339	6	6
7622	Radio and television repair	7.2	6.3	5.8	37	31	31	1	1
78	Motion pictures [2]	14.9	18.2	18.5	208	229	252	4	5
781	Motion picture production, distribution, and services	4.1	8.5	9.2	83	117	140	3	3
783	Motion picture theaters	9.5	8.6	8.2	109	96	97	1	1
79	Amusement and recreation services [2]	45.5	60.2	61.5	706	768	797	10	10
792	Theatrical producers, bands, orchestras, entertainers	5.9	7.8	7.6	96	97	103	2	2
7933	Bowling alleys	6.2	6.3	6.1	110	100	97	1	1
794	Commercial sports	2.1	2.5	2.5	60	68	65	2	2
7997	Membership sports and recreation clubs	9.5	13.2	13.1	172	215	220	2	3
80	Health services [2]	310.8	390.2	401.4	5,258	6,337	6,614	116	126
801	Offices of physicians	147.2	180.1	182.1	742	924	980	32	35
802	Offices of dentists	85.7	98.4	99.9	351	445	465	7	8
8041	Offices of chiropractors	8.9	15.3	16.8	22	42	48	1	1
8042	Offices of optometrists	12.5	14.6	14.6	38	50	52	1	1
805	Nursing and personal care facilities	12.8	16.0	16.5	1,002	1,206	1,270	12	12
806	Hospitals	5.3	5.8	5.7	2,673	2,944	2,974	52	56
807	Medical and dental laboratories	10.8	13.2	13.9	98	112	124	2	2
808	Outpatient care facilities	8.6	12.5	14.0	165	251	290	5	6
81	Legal services	97.3	125.7	128.7	503	685	746	19	22
82	Educational services [2]	23.3	30.1	31.0	1,241	1,517	1,562	20	22
821	Elementary and secondary schools	11.3	13.3	13.4	303	374	387	4	5
822	Colleges and universities	2.4	2.8	2.8	820	985	997	13	15
83	Social services [2]	60.6	88.1	92.8	1,023	1,291	1,368	12	13
836	Residential care	9.9	14.9	15.8	214	280	300	3	3
86	Membership organizations [2]	130.7	176.0	207.9	1,215	1,552	1,696	15	17
861	Business associations	11.1	11.7	11.6	79	87	90	2	2
863	Labor organizations	20.8	20.6	20.5	172	170	169	2	2
864	Civic and social associations	30.5	35.6	37.0	279	311	327	3	3
866	Religious organizations	56.0	93.0	122.3	573	851	966	6	7
891	Engineering and architectural services	37.5	53.2	55.9	524	667	706	20	21
893	Accounting, auditing and bookkeeping	40.8	58.1	60.8	302	400	432	8	9

[1] Standard Industrial Classification; see text, section 13. [2] Includes kinds of business not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

No. 1382. Service Industries—Annual Receipts of Taxable Firms: 1980 to 1988

[In millions of dollars. Estimated]

SIC [1] code	KIND OF BUSINESS	1980	1984	1985	1986	1987	1988
70	Hotels, camps, and other lodging places	(NA)	(NA)	44,414	45,952	51,097	55,578
701	Hotels, motels, and tourist courts	26,952	38,859	41,742	43,317	48,238	52,379
72	Personal services [2]	25,133	34,036	36,978	39,407	42,363	48,343
721	Laundry, cleaning, and garment services	9,213	11,895	12,641	13,062	13,895	15,565
723	Beauty shops	5,798	8,048	8,591	9,043	9,780	10,786
726	Funeral service and crematories	3,491	4,726	5,278	5,515	5,810	6,269
73	Business services [2]	(NA)	(NA)	181,988	198,743	216,045	251,381
731	Advertising	(NA)	13,845	16,334	17,343	18,304	19,965
7311	Advertising agencies	(NA)	10,358	12,432	13,158	13,461	14,732
733	Mailing, reproduction, and stenographic services	(NA)	(NA)	10,740	11,697	13,217	14,779
7333	Commercial photography, art, and graphics	(NA)	(NA)	4,551	4,699	5,316	5,810
734	Services to dwellings and other buildings	(NA)	11,100	12,545	13,828	14,763	16,488
7349	Cleaning and maintenance services to dwellings, and other buildings, n.e.c. [3]	(NA)	(NA)	10,036	11,242	11,806	13,242
736	Personnel supply services [2]	(NA)	14,068	16,006	18,019	21,456	25,590
7361	Employment agencies	(NA)	(NA)	4,440	4,818	5,124	6,244
7362	Temporary help supply services	(NA)	(NA)	9,199	10,447	13,443	16,356
737	Computer and data processing services	(NA)	28,613	32,093	35,796	39,274	46,216
7372	Computer programming and other software services	(NA)	11,411	12,590	14,389	16,832	20,826
7374	Data processing services	(NA)	12,409	13,321	14,425	14,959	16,581
7379	Computer related services, n.e.c. [3]	(NA)	4,793	6,182	6,982	7,484	8,808
7391	Research and development laboratories [4]	(NA)	(NA)	7,698	8,866	9,242	11,290
7392	Management, consulting, and public relations services [4]	(NA)	(NA)	33,515	36,785	38,479	45,675
7393	Detective agencies and protective services	(NA)	6,932	7,985	8,894	10,138	11,858
7394	Equipment rental and leasing services	(NA)	(NA)	16,451	17,071	17,699	20,999
75	Automotive repair, services, and garages [2]	30,547	43,615	51,543	53,563	57,837	65,625
751	Automotive rental and leasing [2]	8,759	12,569	14,510	15,386	16,550	18,586
7512	Passenger car rental and leasing	4,691	7,365	8,743	9,319	9,911	11,094
7513	Truck rental and leasing	3,988	4,955	5,329	5,571	6,148	6,941
753	Automotive repair shops	18,077	25,877	30,883	32,024	34,749	39,142
76	Miscellaneous repair services	15,424	17,230	19,889	20,180	21,598	23,852
78	Motion pictures	12,509	15,797	17,002	18,205	20,753	22,739
781,2	Motion picture production, distribution, and allied services	(NA)	(NA)	12,697	13,566	15,745	17,611
79	Amusement and recreation services [2]	(NA)	(NA)	25,418	27,327	29,407	32,334
792	Theatrical producers, bands, orchestras, and entertainers [4]	(NA)	(NA)	4,947	5,910	5,989	6,344
794	Commercial sports	(NA)	(NA)	4,963	5,029	6,040	6,752
80	Health services [2 5]	(NA)	(NA)	151,225	167,473	189,520	212,310
801	Offices of physicians	38,754	62,599	68,499	75,136	87,415	98,453
802	Offices of dentists	12,639	18,629	20,187	21,420	23,418	25,334
804	Offices of other health practitioners	(NA)	(NA)	7,551	8,315	9,630	11,184
805	Nursing and personal care facilities [4]	(NA)	(NA)	17,632	19,225	20,258	21,453
806	Hospitals [4]	(NA)	(NA)	18,796	21,597	23,572	25,987
808	Outpatient care facilities [4]	(NA)	(NA)	8,967	11,104	13,422	15,869
81	Legal services [4 5]	(NA)	(NA)	51,677	57,143	64,510	73,132
891	Engineering and architectural services	(NA)	39,067	43,617	45,397	50,468	55,625
893	Accounting, auditing, and bookkeeping	(NA)	18,984	22,308	24,062	27,949	31,187
4722	Arrangement of passenger transportation	(NA)	5,765	6,965	6,424	7,053	7,819
653	Real estate agents and managers [5]	(NA)	25,408	31,257	34,859	38,145	42,121

NA Not available. [1] Standard Industrial Classification; see text, section 13. [2] Includes other kinds of businesses, not shown separately. [3] N.e.c. means not elsewhere classified. [4] For data on tax-exempt organizations, see table 1383. [5] Excludes nonemployers.

No. 1383. Selected Service Industries—Annual Revenues of Tax-Exempt Firms: 1985 and 1988

[In millions of dollars. Estimated]

SIC [1] code	KIND OF BUSINESS	1985	1988
7391,2,7	Selected business services [2]	4,657	7,165
792,7997, 7999	Selected amusement services [3]	5,583	7,369
805,6,8,9	Selected health services [4]	141,580	197,373
805	Nursing and personal care facilities	6,606	9,034
806	Hospitals	125,218	174,830
808	Outpatient care facilities	6,645	8,881
81	Legal services	374	559
833	Job training and vocational rehabilitation services	3,399	4,463
835	Child day care services	2,971	4,023
836	Residential care	5,737	8,251
892	Noncommercial educational, scientific, and research organizations	4,440	6,023

[1] Standard Industrial Classification; see text, section 13. [2] Covers research and development laboratories (SIC 7391); management, consulting, and public relations services (SIC 7392); and commercial testing laboratories (SIC 7397). [3] Covers theatrical producers, bands, orchestras, and entertainers (SIC 792); membership sports and recreation clubs (SIC 7997); and amusement and recreation services, not elsewhere classified (SIC 7999). [4] Includes health and allied services, not elsewhere classified (SIC 809).

Source of tables 1382 and 1383: U.S. Bureau of the Census, *Current Business Reports*, series BS, *1988 Service Annual Survey*.

No. 1384. Hotel and Motor Hotel Operations—Occupancy Ratio, Sales Indexes, and Room Rate Index: 1970 to 1988

[Annual averages of monthly figures. Based on monthly reports from lodging establishments (approximately 1,400 in 1985). Prior to 1980, economy operations were excluded. See table 1385]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Occupancy ratio (percent)	**55**	**62**	**72**	**71**	**68**	**67**	**65**	**65**	**66**	**64**	**65**	**64**	**63**
Sales indexes (1967 = 100):													
Total sales	107	132	188	210	234	251	256	267	239	294	308	323	350
Room sales	112	145	218	249	283	305	313	329	361	370	390	413	428
Restaurant sales	100	119	156	167	180	191	193	198	209	209	214	219	221
Room rate index (1967 = 100)	**125**	**165**	**220**	**255**	**295**	**326**	**348**	**361**	**387**	**404**	**419**	**435**	**452**

Source: Laventhol & Horwath, Philadelphia, PA, *National Trend of Business in the Lodging Industry,* monthly. (Copyright.)

No. 1385. The Lodging Industry, by Type of Establishment—Summary: 1986 to 1988

[An economy lodging establishment offers clean, standard-sized, fully-furnished modern rooms at usually $10.00 to $20.00 per night below the rate of typical full-service motor hotels. Their customers do not need food facilities, banquet rooms or meeting facilities, indoor recreation areas, or entertainment. An All-suite hotel doesn't have rooms, only suites. A suite differs from a hotel room by several characteristics. Generally, there is a separate bedroom, and guest amenities often include "extras" such as a wet bar or microwave, and in some cases a full-kitchen. A resort hotel is a lodging facility providing an environment conducive to leisure and recreation and an ambiance of isolation/destination while providing a full range of leisure-oriented amenities. Based on Annual Surveys of Lodging Establishments. All figures except percents are medians. For definition of median, see Guide to Tabular Presentation]

ITEM	FULL-SERVICE		ECONOMY		ALL-SUITE		RESORT	
	1987	1988	1987	1988	1986	1987	1987	1988
Room occupancy rate	65.3	66.3	65.3	64.4	70.3	68.3	63.5	58.8
Average room rate (dol.)	57.84	55.26	30.69	31.91	63.33	61.02	83.01	80.62
Sales per available room (dol.)	22,685	20,593	7,700	8,105	17,891	19,395	16,947	17,483
Payroll and related expenses per available room (dol.)	(NA)	(NA)	1,274	1,776	6,713	(NA)	(NA)	(NA)
Ratio of net income before income tax to sales	−4.0	−2.7	13.6	3.4	(NA)	−2.1	1.9	.1
Employees [1] per 100 available rooms	(NA)	68.0	(NA)	(NA)	41.8	(NA)	79.6	82.7
Sales per employee [1] (dol.)	(NA)	50,306	(NA)	62,459	48,513	(NA)	(NA)	41,662
Composition of market (percent):								
Business travelers/government officials	40.3	34.5	43.4	42.0	59.9	46.6	9.2	7.2
Tourists	32.8	40.2	42.8	41.2	22.8	32.2	58.7	62.9
Conference participants	20.0	17.3	4.1	5.1	11.2	11.7	29.4	27.0
Percent advanced reservations	71.3	68.8	36.1	28.2	81.9	85.1	85.9	86.7

NA Not available. [1] Full-time equivalent employees.

Source: Laventhol & Horwath, Philadelphia, PA, *U.S. Lodging Industry,* annual; *U.S. All-Suite Lodging Industry,* annual; *U.S. Economy/Limited-Service Lodging Industry,* annual; and *U.S. Resort Lodging Industry,* annual.

No. 1386. National Nonprofit Associations—Number, by Type: 1980 to 1989

[Data compiled during last few months of year previous to year shown and the beginning months of year shown]

TYPE	1980	1985	1988	1989	TYPE	1980	1985	1988	1989
Total	**14,726**	**19,121**	**21,428**	**21,911**	Public affairs	1,068	1,935	2,222	2,292
Trade, business, commercial	3,118	3,719	3,915	3,806	Fraternal, foreign interest, nationality, ethnic	435	492	544	570
Agriculture	677	882	930	914	Religious	797	953	1,109	1,169
Legal, governmental, public administration, military	529	658	719	775	Veteran, hereditary, patriotic	208	281	381	404
Scientific, engineering, tech	1,039	1,270	1,404	1,363	Hobby, avocational	910	1,311	1,421	1,471
Educational	2,376	2,822	1,222	1,268	Athletic sports	504	737	818	839
Cultural			1,818	1,872	Labor unions	235	252	234	254
Social welfare	994	1,450	1,669	1,686	Chambers of Commerce [1]	105	142	161	168
Health, medical	1,413	1,886	2,062	2,162	Greek and non-Greek letter societies	318	331	336	337
					Fan clubs	(NA)	(NA)	463	561

NA Not available. [1] National and binational.

Source: Gale Research Inc., Detroit, MI. Compiled from *Encyclopedia of Associations,* annual. (Copyright).

1990

Section 29

Foreign Commerce and Aid

This section presents data on the flow of goods, services, and capital between the United States and other countries; changes in official reserve assets of the United States; international investments; foreign assistance programs; and import duties.

The Bureau of Economic Analysis publishes current figures on U.S. international transactions and the U.S. international investment position in its monthly *Survey of Current Business.* Figures for earlier periods are presented in *Balance of Payments—Statistical Supplement,* 1963 revised edition, in the periodic *Foreign Grants and Credits by the United States Government,* and in the June issues of the *Survey of Current Business.* Statistics for the foreign aid programs are presented by the Agency for International Development (AID) in its annual *U.S. Overseas Loans and Grants and Assistance from International Organizations;* and by the Department of Agriculture in its *Foreign Agricultural Trade of the United States.*

The principal source of merchandise import and export data is the Bureau of the Census. Current data were presented monthly through 1988 in Report FT 135, *U.S. General Imports, Schedule A: Commodity by Country;* Report FT 410, *U.S. Exports, Schedule E: Commodity by Country;* and Report FT 990, *Highlights of U.S. Export and Import Trade.* Data for 1989 will appear in a new report, FT 900, *Report on U.S. Merchandise Trade.* The *Bureau of the Census Catalog* and the *Guide to Foreign Trade Statistics* lists the Bureau's monthly and annual reports in this field. In addition, the International Trade Administration and the Bureau of Economic Analysis present summary as well as selected commodity and country data for U.S. foreign trade in the *Overseas Business Reports* and the *Survey of Current Business,* respectively. The merchandise trade data in the latter source include balance of payments adjustments to the Census data. The Treasury Department's *Monthly Treasury Statement of Receipts and Outlays of the United States Government* contains information on import duties.

International accounts.—The international transactions tables (Nos. 1387-1389) show, for given time periods, the transfer of goods, services, grants, and financial assets and liabilities between the United States and the rest of the world. The international investment position table (No. 1390) presents, for specific dates, the value of U.S. investments abroad and of foreign investments in the United States. The movement of foreign and U.S. capital as presented in the balance of payments is not the only factor affecting the total value of foreign investments. Among the other factors are changes in the valuation of assets or liabilities, including changes in prices of securities, defaults, expropriations, and write-offs.

Direct investment abroad means the ownership or control, directly or indirectly, by one person of 10 percent or more of the voting securities of an incorporated business enterprise or an equivalent interest in an unincorporated business enterprise. Direct investment position is the value of U.S. parents' claims on the equity of, and receivables due from, foreign affiliates, less foreign affiliates' receivables due from their U.S. parents. Income consists of parents' shares in the earnings of their affiliates plus net interest received by parents on intercompany accounts, less withholding taxes on dividends and interest.

Foreign aid.—Foreign assistance is divided into three major categories—grants (military supplies and services and other grants), credits, and other assistance (through net accumulation of foreign currency claims from the sale of agricultural commodities). *Grants* are transfers for which no payment is expected (other than a limited percentage of the foreign currency "counterpart" funds generated by the grant), or which at most involve an obligation on the part of the receiver to extend aid

to the United States or other countries to achieve a common objective. *Credits* are loan disbursements or transfers under other agreements which give rise to specific obligations to repay, over a period of years, usually with interest. All known returns to the U.S. Government stemming from grants and credits (reverse grants, returns of grants, and payments of principal) are taken into account in net grants and net credits, but no allowance is made for interest or commissions. *Other assistance* represents the transfer of U.S. farm products in exchange for foreign currencies (plus, since enactment of Public Law 87-128, currency claims from principal and interest collected on credits extended under the farm products program), *less* the Government's disbursements of the currencies as grants, credits, or for purchases. The net acquisition of currencies represents net transfers of resources to foreign countries under the agricultural programs, in addition to those classified as grants or credits.

Figures as published in the *Foreign Grants and Credits* series are not identical with figures shown for Government unilateral transfers and capital in the balance of payments, mainly because of differences in treatment of particular items by the two sets of accounts. Such items include contributions to the multilateral construction program of the North Atlantic Treaty Organization, Government investments in certain productive enterprises abroad, Government receipts on funded claims, and net changes in foreign currency holdings resulting from transactions other than those under the farm products program, such as collections of principal and interest and purchases for dollars.

The basic instrument for extending military aid to friendly nations has been the Mutual Defense Assistance Program authorized by the Congress in 1949. Prior to 1952, economic and technical aid was authorized in the Foreign Assistance Act of 1948, the 1950 Act for International Development, and other legislation which set up programs for specific countries. In 1952, these economic, technical, and military aid programs were combined under the Mutual Security Act, which in turn was followed by the Foreign Assistance Act passed in 1961. Appropriations to provide military assistance were also made in the Department of Defense Appropriation Act (rather than the Foreign Assistance Appropriation Act) beginning in 1966 for certain countries in Southeast Asia and in other legislation concerning programs for specific countries (such as Israel). Figures on activity under the Foreign Assistance Act as reported in the *Foreign Grants and Credits* series differ from data published by AID or its immediate predecessors, due largely to differences in reporting, timing, and treatment of particular items.

Exports.—The Bureau of the Census compiles export data primarily from Shipper's Export Declarations required to be filed with customs officials for shipments leaving the United States. They include U.S. exports under mutual security programs and exclude shipments to U.S. Armed Forces for their own use.

The value reported in the export statistics is generally equivalent to a free alongside ship (f.a.s.) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. This value, as defined, excludes the cost of loading merchandise aboard the exporting carrier and also excludes freight, insurance, and any other charges or transportation and other costs beyond the U.S. port of exportation. The country of destination is defined as the country of ultimate destination or country where the merchandise is to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. When ultimate destination is not known, the shipment is statistically credited to the last country to which the shipper knows the merchandise will be shipped in the same form as exported.

For certain low-valued shipments, the export statistics since July 1953 include estimates based upon selected samples of such shipments with lower and upper value limits of the sampled shipments varying (Canada excepted) from $100-$499 for July 1953-September 1969, $251-$499 for October 1969-February 1979, and $501-$999, for March 1979-June 1981. For July 1981-December 1984, the statistics for countries other than Canada reflect fully compiled data for shipments valued over $500. For Canada, the upper value limit was $1,999 during the period January 1963-December 1984, and lower value limits were raised to $251 and $501 in October 1969 and March 1979, respectively. Beginning 1985, data for low-valued exports to all countries are estimated using factors based on the ratios of low-valued shipments to individual country totals. From January, 1985 through December 1986, data are estimated for all shipments valued under $1,001. Effective January 1987, data are estimated for shipments valued under $1,501. Shipments valued under $1,501 represent slightly less than 2.5 percent of the total value of exports.

From 1978-1988 exports were based on Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States. These statistics were retabulated and published using Schedule E, Standard International Trade Classification, Revision 2. Beginning in 1989, Schedule B classifications were based on the Harmonized System and made to coincide with the

Standard International Trade Classification, Revision 3. This revision will affect the comparability of most export series beginning with the 1989 data.

Imports.—The Bureau of the Census compiles import data from various customs forms required to be filed with customs officials. From 1974-1981, data on import values were presented on three bases: The transaction values f.a.s. (free alongside ship) at the foreign port of export, the c.i.f. (cost, insurance, and freight), and the previously reported customs import value (as appraised by the U.S. Customs Service in accordance with legal requirements of the Tariff Act of 1930, as amended). This latter valuation, primarily used for collection of import duties, frequently did not reflect the actual transaction value. Beginning 1982, import data are based on customs values, i.e., the price paid by the buyer to the seller in accordance with the 1979 Trade Agreement Act amendments to the 1930 Tariff Act. For the c.i.f. imports, the new customs value was substituted for the arms-length transaction value used for 1981 and earlier years. The f.a.s. transaction values were discontinued as of January 1982. Country of origin is defined as country where the merchandise was grown, mined, or manufactured. If country of origin is unknown, country of shipment is reported.

Imports are classified either as "General imports" or "Imports for consumption." General imports are a combination of entries for immediate consumption, entries into customs bonded warehouses, and entries into U.S. Foreign Trade Zones, thus generally reflecting total arrivals of merchandise. Imports for consumption are a combination of entries for immediate consumption, withdrawals from warehouses for consumption, and entries of merchandise into U.S. customs territory from U.S. Foreign Trade Zones, thus generally reflecting the total of the commodities entered into U.S. consumption channels.

Since July 1953, the import statistics include estimates, not classified by commodity, for certain low-valued shipments. For July 1953-July 1965, entries valued under $100, in general, were estimated, while entries valued under $251 have been estimated for the period July 1965-December 1984. Since January 1985, import statistics include estimates for shipments valued under $1,001. The estimated low-valued shipments generally amount to about 4 percent of the import total.

From 1978-1988, imports were based on the Tariff Schedule of the United States Annotated. The statistics were retabulated and published using Schedule A, Standard International Trade Classification, Revision 2. Beginning in 1989, the statistics are based on the Harmonized Tariff Schedule of the United States, which coincides with the Standard International Trade Classification, Revision 3. This revision will affect the comparability of most import series beginning with the 1989 data.

Area coverage.—Except as noted, the geographic area covered by the export and import trade statistics is the United States Customs area (includes the 50 States, the District of Columbia and Puerto Rico), the U.S. Virgin Islands (effective January 1981), and U.S. Foreign Trade Zones (effective July 1982). Data for selected tables and total values for 1980, have been revised to reflect the U.S. Virgin Islands' trade with foreign countries, where possible.

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.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970.* See Appendix IV.

No. 1387. U.S. International Transactions, by Type of Transaction: 1970 to 1988

[In millions of dollars. Minus sign (–) indicates debits. See also *Historical Statistics, Colonial Times to 1970*, series U 1-25]

TYPE OF TRANSACTION	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Exports of goods and services [1]	**65,674**	**155,729**	**286,796**	**342,485**	**378,697**	**352,127**	**337,380**	**371,101**	**371,212**	**391,958**	**446,138**	**529,806**
Merchandise, excl. military [2 3]	42,469	107,088	184,473	224,269	237,085	211,198	201,820	219,900	215,935	223,367	250,266	319,251
Foods, feeds, and beverages	5,874	19,234	30,171	35,893	38,338	31,783	31,754	31,790	24,140	23,273	24,757	32,944
Industrial supplies and materials	13,795	29,789	57,812	71,583	69,743	63,622	58,416	63,296	60,275	64,068	68,952	88,824
Capital goods, except automotive	14,659	36,639	59,183	75,140	82,426	74,345	69,230	74,273	76,519	79,342	87,736	112,352
Automotive vehicles and parts [4]	3,870	10,794	18,065	17,088	19,284	16,984	18,316	22,147	24,728	24,916	27,546	32,514
Consumer goods (nonfood) [5]	2,798	6,560	12,899	16,311	16,142	14,538	13,968	13,818	13,134	14,613	18,290	24,180
Transfers under U.S. military agency sales contracts	1,501	4,049	6,516	8,274	10,041	11,986	12,344	9,817	8,626	8,495	11,238	10,050
Travel and transportation	6,000	11,576	20,568	24,797	28,584	27,884	27,147	[6] 35,577	36,999	41,456	47,376	56,992
Miscellaneous services	3,957	7,666	11,107	12,641	[6] 16,576	17,510	18,818	19,899	20,820	[6] 30,023	32,555	35,738
Income on U.S. assets abroad	11,747	25,351	64,132	72,506	86,411	83,549	77,251	85,908	88,832	88,615	104,703	107,775
Direct investment	8,169	16,595	38,183	37,146	32,549	21,381	20,499	21,217	33,202	38,533	54,754	48,264
Other private receipts	2,671	7,644	23,654	32,798	50,182	58,050	51,920	59,464	50,131	43,669	44,638	52,840
U.S. Government receipts	907	1,112	2,295	2,562	3,680	4,118	4,832	5,227	5,499	6,413	5,311	6,672
Transfer of goods and services under U.S. military grants, net	**2,713**	**2,207**	**465**	**756**	**679**	**585**	**180**	**153**	**46**	**96**	**53**	**92**
Imports of goods and services	**–59,901**	**–132,745**	**–281,659**	**–333,360**	**–362,887**	**–349,936**	**–371,890**	**–462,818**	**–468,468**	**–509,428**	**–575,626**	**–641,698**
Merchandise, excl. military [2 3]	–39,866	–98,185	–212,009	–249,749	–265,063	–247,642	–268,900	–332,422	–338,083	–368,425	–409,766	–446,466
Foods, feeds, and beverages	–6,147	–9,642	–18,001	–18,548	–18,531	–17,462	–18,871	–21,873	–21,873	–24,346	–24,809	–24,909
Industrial supplies and materials	–15,343	–50,638	–108,464	–132,256	–134,944	–110,922	–109,193	–124,026	–113,678	–104,263	–113,746	–122,350
Capital goods, except automotive	–3,978	–10,166	–24,460	–31,420	–36,912	–38,407	–43,193	–60,460	–61,434	–72,139	–85,129	–101,757
Automotive vehicles and parts [4]	–5,515	–12,085	–26,454	–28,058	–30,885	–34,040	–43,218	–56,561	–65,077	–78,110	–85,174	–87,941
Consumer goods (nonfood) [5]	–7,403	–13,211	–31,207	–34,222	–38,302	–39,661	–47,200	–61,155	–66,345	–79,179	–88,824	–96,379
Direct defense expenditures	–4,855	–4,795	–8,294	–10,851	–11,564	–12,460	–12,687	–11,916	–12,183	–13,071	–14,095	–14,656
Travel and transportation	–8,038	–14,388	–23,503	–25,794	–28,440	–28,876	–31,374	[6] –43,462	–46,831	–49,489	–54,700	–59,625
Miscellaneous services	–1,628	–2,813	–4,893	–4,848	[6] –5,491	–6,074	–6,554	–7,599	–8,470	[6] –11,475	–14,645	–15,403
Income on foreign assets in U.S	–5,516	–12,564	–32,960	–42,120	–52,329	–54,883	–52,376	–67,419	–62,901	–66,968	–82,420	–105,548
Direct investment	–875	–2,234	–6,357	–8,635	–6,898	–3,155	–5,598	–9,229	–6,079	–5,379	–9,500	–16,748
Other private payments	–3,617	–5,788	–15,481	–20,893	–28,553	–33,443	–28,953	–38,421	–35,516	–38,982	–48,868	–59,746
U.S. Government payments	–1,024	–4,542	–11,122	–12,592	–16,878	–18,285	–17,825	–19,769	–21,306	–22,607	–24,052	–29,054
U.S. military grants of goods and services, net	**–2,713**	**–2,207**	**–465**	**–756**	**–679**	**–585**	**–180**	**–153**	**–46**	**–96**	**–53**	**–92**
Unilateral transfers (excl. military grants), net	**–3,443**	**–4,868**	**–6,128**	**–7,593**	**–7,647**	**–9,188**	**–9,776**	**–12,468**	**–15,426**	**–15,778**	**–14,212**	**–14,658**
U.S. Government grants	–1,736	–2,894	–3,550	–4,731	–4,466	–5,501	–6,288	–8,543	–11,222	–11,730	–10,149	–10,377
U.S. Govt. pensions, private remittances, other transfers	–1,707	–1,974	–2,578	–2,862	–3,181	–3,687	–3,488	–3,925	–4,205	–4,049	–4,063	–4,279

U.S. assets abroad, net (increase/capital outflow (−))	**−9,337**	**−39,703**	**−64,331**	**−86,118**	**−110,951**	**−121,153**	**−49,777**	**−22,304**	**−32,638**	**−99,665**	**−76,218**	**−82,110**
U.S. official reserve assets, net	2,481	−849	−1,133	−8,155	−5,175	−4,965	−1,196	−3,131	−3,858	312	9,149	−3,566
U.S. Govt. assets, other than official reserve assets, net	−1,589	−3,474	−3,746	−5,162	−5,097	−6,131	−5,006	−5,489	−2,821	−2,024	997	2,999
U.S. credits and other long-term assets	−3,293	−5,941	−7,697	−9,860	−9,674	−10,063	−9,967	−9,599	−7,657	−9,093	−6,515	−7,579
Repayments on U.S. credits and other long-term assets [1]	1,721	2,475	3,926	4,456	4,413	4,292	5,012	4,490	4,719	6,090	7,625	10,313
U.S. foreign currency holdings and U.S. short-term assets, net	−16	−9	25	242	164	−360	−51	−379	118	979	−113	265
U.S. private assets, net	−10,229	−35,380	−59,453	−72,802	−100,679	−110,058	−43,576	−13,685	−25,950	−97,954	−86,363	−81,543
Direct investments abroad	−7,590	−14,244	−25,222	−19,222	−9,624	2,369	−373	−2,821	−18,068	−26,312	−44,194	−17,533
Foreign securities	−1,076	−6,247	−4,726	−3,568	−5,699	−7,983	−6,762	−4,756	−7,481	−4,271	−5,251	−7,846
U.S. claims on unaffiliated foreigners reported by U.S. nonbanking concerns	−596	−1,357	−3,291	−3,174	−1,181	6,626	−6,513	5,019	923	−7,396	5,201	−1,684
U.S. claims reported by U.S. banks, n.i.e.[6]	−967	−13,532	−26,213	−46,838	−84,175	−111,070	−29,928	−11,127	−1,323	−59,975	−42,119	−54,481
Foreign assets in the U.S., net (increase/capital inflow (+))	**6,359**	**15,670**	**38,752**	**58,112**	**83,032**	**93,746**	**84,869**	**102,621**	**130,012**	**221,605**	**218,039**	**219,299**
Foreign official assets in the U.S., net	6,908	7,027	−13,665	15,497	4,960	3,593	5,845	3,140	−1,083	35,594	45,193	38,862
Other foreign assets in the U.S., net	−550	8,643	52,416	42,615	78,072	90,154	79,023	99,481	131,096	186,011	172,847	180,418
Direct investments in U.S	1,464	2,603	11,877	16,918	25,195	13,792	11,946	25,359	19,022	34,091	46,894	58,436
U.S. Treasury securities	81	2,590	[9] 4,960	[9] 2,645	[9] 2,927	[9] 7,027	[9] 8,689	23,001	20,433	3,809	−7,643	20,144
U.S. securities other than U.S. Treasury securities	2,189	2,503	1,351	5,457	6,905	6,085	8,164	12,568	50,962	70,969	42,120	26,448
U.S. liabilities to unaffiliated foreigners reported by U.S. nonbanking concerns	2,014	319	1,621	6,852	917	−2,383	−118	4,704	−366	−2,641	2,450	6,558
U.S. liabilities reported by U.S. banks, n.i.e.[6]	−6,298	628	32,607	10,743	42,128	65,633	50,342	33,649	41,045	79,783	89,026	66,832
Allocations of special drawing rights	**867**	–	**1,139**	**1,152**	**1,093**	–	–	–	–	–	–	–
Statistical discrepancy (sum of above items with sign reversed)	−219	5,917	25,431	25,322	18,663	34,404	9,194	26,869	15,298	11,306	1,878	−10,641
Balance on merchandise trade	2,603	8,903	−27,536	−25,480	−27,978	−36,444	−67,080	−112,522	−122,148	−145,056	−159,500	−127,215
Balance on goods and services	5,773	22,984	5,138	9,126	15,810	2,191	−34,510	−91,718	−97,256	−117,470	−129,485	−111,892
Balance on goods, services, and remittances	4,067	21,011	2,559	6,264	12,629	−1,496	−37,998	−95,643	−101,460	−121,519	−133,551	−116,171
Balance on current account	2,331	18,116	−991	1,533	8,163	−6,997	−44,286	−104,186	−112,682	−133,249	−143,700	−126,548

– Represents zero. [1] Excludes transfers of goods and services under U.S. military grant programs. [2] Excludes exports of goods under U.S. military agency sales contracts identified in Bureau of the Census export documents, excludes imports of goods under direct defense expenditures identified in Census import documents, and reflects various other adjustments (for valuation, coverage, and timing) of Census statistics to a balance of payments basis. [3] Includes other end-use items, not shown separately. [4] Includes engines. [5] Excludes automotive. [6] Break in series due to inclusion of new data. See Technical Note in *Survey of Current Business*, June 1979. [7] Includes sales of foreign obligations to foreigners. [8] Not included elsewhere. [9] Includes foreign currency notes sold to private residents abroad.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1989.

No. 1388. U.S. International Transactions—Summary: 1960 to 1989

[**In billions of dollars.** Reserve assets are for end of period. Minus sign (-) indicates debits, see headnote, table 1387]

Year	Merchandise trade balance [1]	Net investment income	Net military transactions	Net travel and transportation receipts	Other services, net	Balance on goods and services	Unilateral transfers [1]	Balance on current account	Net foreign assets in U.S.	Net U.S. assets abroad	Net U.S. official reserve assets
1960	4.9	3.4	-2.8	-1.0	.6	5.2	-2.4	2.8	2.3	-4.1	19.4
1965	5.0	5.3	-2.1	-1.3	1.5	8.4	-2.9	5.4	.7	-5.7	15.5
1966	3.8	5.0	-2.9	-1.3	1.5	6.1	-3.1	3.0	3.7	-7.3	14.9
1967	3.8	5.3	-3.2	-1.8	1.7	5.8	-3.3	2.6	7.4	-9.8	14.8
1968	.6	6.0	-3.1	-1.5	1.8	3.7	-3.1	.6	9.9	-11.0	15.7
1969	.6	6.0	-3.3	1.8	2.0	3.5	-3.1	.4	12.7	-11.6	17.0
1970	2.6	6.2	-3.4	-2.0	2.3	5.8	-3.4	2.3	6.4	-9.3	14.5
1971	-2.3	7.3	-2.9	-2.3	2.6	2.4	-3.9	-1.4	23.0	-12.5	12.2
1972	-6.4	8.2	-3.4	3.1	3.0	-1.7	-4.1	-5.8	21.5	-14.5	13.2
1973	.9	12.2	-2.1	-3.2	3.4	11.2	-4.1	7.1	18.4	-22.9	14.4
1974	-5.5	15.5	-1.7	3.2	4.2	9.4	-7.4	2.0	34.2	-34.7	15.9
1975	8.9	12.8	-.7	-2.8	4.9	23.0	-4.9	18.1	15.7	-39.7	16.2
1976	-9.5	16.0	.6	-2.6	5.0	9.5	-5.3	4.2	36.5	-51.3	18.7
1977	-31.1	18.0	1.5	-3.6	5.7	-9.5	-5.0	-14.5	51.3	-34.8	19.3
1978	-33.9	20.6	.6	-3.6	6.5	-9.9	-5.6	-15.4	64.0	-61.1	18.7
1979	-27.5	31.2	-1.8	-2.9	6.2	5.1	-6.1	-1.0	38.8	-64.3	19.0
1980	-25.5	30.4	-2.6	-1.0	7.8	9.1	-7.6	1.5	58.1	-86.1	26.8
1981	-28.0	34.1	-1.5	.1	11.1	15.8	-7.6	8.2	83.0	-111.0	30.1
1982	-36.4	28.7	-.5	-1.0	11.4	2.2	-9.2	-7.0	93.7	-121.2	34.0
1983	-67.1	24.9	-.3	-4.2	12.3	-34.5	-9.8	-44.3	84.9	-49.8	33.7
1984	-112.5	18.5	2.1	-7.9	12.3	-91.7	-12.5	-104.2	102.6	-22.3	34.9
1985	-122.1	25.9	-3.6	-9.8	12.4	-97.3	-15.4	-112.7	130.0	-32.6	43.2
1986	-145.1	21.6	-4.6	-8.0	18.5	-117.5	-15.8	-133.2	221.6	-99.7	48.5
1987	-159.5	22.3	-2.9	-7.3	17.9	-129.5	-14.2	-143.7	218.0	-76.2	45.8
1988	-127.2	2.2	-4.6	-2.6	20.3	111.9	-14.7	-126.5	219.3	-82.1	47.8
1989, 1st quarter	-28.4	-2.4	-1.5	-.3	5.7	-26.9	-3.5	-30.4	60.0	-31.3	49.9
2d quarter	-27.7	-5.0	-1.6	.5	6.0	-27.9	-3.1	-31.0	-3.1	7.5	60.5

[1] Excludes military.

Source: U.S. Council of Economic Advisers, *Economic Indicators*, monthly; and *Economic Report of the President*, annual. Data from U.S. Bureau of Economic Analysis and U.S. Dept. of the Treasury.

No. 1389. U.S. Balances on International Transactions, by Area and Selected Country: 1986 to 1988

[**In millions of dollars.** Minus sign (-) indicates debits]

Area or country	1986, balance on—			1987, balance on—			1988, balance on—		
	Merchandise trade [1]	Goods and services	Current account	Merchandise trade [1]	Goods and services	Current account	Merchandise trade [1]	Goods and services	Current account
All areas	**-145,058**	**-117,470**	**-133,249**	**-159,500**	**-129,488**	**-143,700**	**-127,215**	**-111,892**	**-126,548**
Western Europe	-28,584	-32,237	-32,679	-27,522	-28,383	-28,406	-15,786	-35,269	-35,332
European Economic Community [2]	-22,314	-25,955	-25,729	-21,921	-23,156	-22,609	-11,136	-29,322	-28,660
United Kingdom	-3,903	-12,390	-12,122	-3,458	-11,624	-11,326	362	-13,198	-12,658
Belgium-Luxembourg	1,518	3,924	3,896	1,924	4,067	4,036	2,851	4,283	4,252
France	-2,423	-491	-577	-2,557	260	173	-2,122	-1,331	-1,419
West Germany	-14,065	-18,517	-17,773	-15,408	-19,185	-18,263	-12,259	-21,739	-20,841
Italy	-5,597	-3,675	-3,914	-5,450	-4,180	-4,425	-4,834	-4,869	-5,111
Netherlands	3,093	4,758	4,737	3,217	4,565	4,543	4,010	4,041	4,019
Other Western Europe	-6,270	-6,282	-6,950	-5,601	-5,226	-5,797	-4,650	-5,947	-6,672
Eastern Europe	95	719	559	342	275	114	1,631	1,661	1,486
Canada	-13,190	-1,881	-2,171	-11,594	1,351	1,026	-10,860	3,450	3,113
Latin America, other Western Hemisphere	-11,257	-2,838	-5,559	-12,320	-9,840	-12,995	-7,797	-6,338	-9,385
Mexico	-5,354	-4,933	-5,432	-5,731	-5,901	-6,472	-2,752	-2,636	-3,176
Venezuela	-1,717	-877	-904	-2,118	-1,423	-1,461	-638	242	203
Australia	2,477	3,938	3,887	2,326	4,636	4,581	3,288	7,332	7,258
Japan [3]	-54,398	-53,704	-53,792	-56,959	-55,269	-55,366	-52,612	-49,872	-49,975
Other Asia and Africa	-40,201	-32,627	-43,698	-53,773	-44,912	-54,374	-45,079	-35,638	-45,219
South Africa	-1,223	-647	-673	-61	552	519	154	464	420
Int'l. and unallocated	-	1,159	204	-	2,673	1,741	-	2,782	1,506

- Represents zero. [1] Adjusted to balance of payments basis; excludes exports under U.S. military sales contracts and imports under direct defense expenditures. [2] Includes Denmark, Greece, Ireland, Spain, Portugal, European Atomic Energy Community, European Coal and Steel Community, and European Investment Bank, not shown separately. [3] Includes Ryukyu Islands.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1989.

No. 1390. International Investment Position, 1960 to 1988, and by Selected Areas, 1988

[**In billions of dollars.** Estimates for end of year; subject to considerable error due to nature of basic data. Direct investments at book value; other types at market or face values. See *Historical Statistics, Colonial Times to 1970,* series U 26-39, for similar data]

TYPE OF INVESTMENT	1960	1965	1970	1975	1978	1979	1980	1981	1982
U.S. net international investment position	**44.7**	**61.6**	**58.5**	**74.2**	**76.1**	**94.5**	**106.3**	**141.1**	**136.7**
U.S. assets abroad	85.6	120.4	165.4	295.1	447.8	510.6	607.1	719.6	824.8
U.S. official reserve assets	19.4	15.5	14.5	16.2	18.6	19.0	26.8	30.1	34.0
U.S. Government assets, other	17.0	23.5	32.1	41.8	54.2	58.4	63.8	68.7	74.6
U.S. private assets	49.2	81.4	118.8	237.1	375.0	433.2	516.6	620.9	716.2
Foreign assets in U.S	40.9	58.8	106.9	220.9	371.7	416.1	500.8	578.7	688.1
Foreign official assets	[1] 12.4	[1] 16.8	26.1	86.9	173.1	159.9	176.1	180.4	189.1
Other foreign assets	28.5	42.0	80.8	134.0	198.7	256.3	324.8	398.3	498.9

TYPE OF INVESTMENT	1983	1984	1985	1986	1987	1988 Total [2]	1988 Western Europe	1988 Canada	1988 Latin America [3]	1988 Japan
U.S. net international investment position	**89.0**	**3.3**	**−111.4**	**−267.8**	**−378.3**	**−532.5**	**436.9**	**53.5**	**−23.6**	**128.5**
U.S. assets abroad	873.5	895.9	949.7	1,073.3	1,169.7	1,253.7	431.0	154.9	303.5	156.3
U.S. official reserve assets	33.7	34.9	43.2	48.5	45.8	47.8	15.0	(z)	(z)	2.3
U.S. Government assets, other	79.5	84.8	87.6	89.5	88.5	85.5	9.0	.3	18.6	(z)
U.S. credits and other long-term assets	77.8	82.9	85.8	88.8	87.6	84.9	9.0	.3	18.2	(z)
U.S. foreign currency holdings and short-term assets	1.7	2.0	1.8	.8	.9	.6	.1	(z)	.3	(z)
U.S. private assets	760.2	776.1	818.9	935.3	1,035.4	1,120.4	407.0	154.6	284.9	153.9
Direct investments abroad	207.2	211.5	230.3	259.8	308.0	326.9	152.2	61.2	49.3	16.9
Foreign securities	83.4	88.9	112.2	131.7	146.7	156.8	84.9	65.5	1.1	(NA)
U.S. claims on unaffiliated foreigners [4]	35.1	30.1	29.0	36.4	31.2	32.9	15.1	3.6	9.2	1.5
U.S. claims reported by U.S. banks [5]	434.5	445.6	447.4	507.3	549.5	603.8	154.8	24.3	225.3	135.5
Foreign assets in the U.S	784.5	892.6	1,061.1	1,341.1	1,548.0	1,786.2	867.9	101.4	327.0	284.8
Foreign official assets in the U.S	194.5	199.3	202.7	241.9	283.6	322.1	127.1	9.8	11.0	(6)
U.S. Government securities	137.0	143.0	143.4	177.3	218.9	259.2	(7)	(7)	(7)	(6)
Other U.S. Government liabilities	14.2	15.0	15.9	18.0	15.5	14.2	4.0	.3	.6	1.6
U.S. liabilities reported by U.S. banks [3]	25.5	26.1	26.7	27.9	31.8	31.5	(7)	(7)	(7)	(6)
Other foreign official assets	17.7	15.2	16.7	18.8	17.3	17.2	(7)	(7)	(7)	(6)
Other foreign assets in the U.S	590.0	693.3	858.4	1,099.2	1,264.4	1,464.1	740.8	91.7	316.0	(6)
Direct investments	137.1	164.6	184.6	220.4	271.8	328.9	216.4	27.4	17.0	53.4
U.S. securities [8]	113.8	127.3	206.2	308.8	344.3	393.6	265.3	38.1	25.4	48.8
U.S. liabilities to unaffiliated foreigners [4]	26.9	31.0	29.5	26.9	29.4	35.5	18.9	2.0	2.3	5.4
U.S. liabilities reported by U.S. banks [5]	278.3	312.2	354.5	451.6	540.6	609.5	(9)	(9)	(9)	(6)
U.S. Treasury securities	33.8	58.2	83.6	91.5	78.4	96.6	(9)	(9)	(9)	(6)

NA Not available. Z Less than $50 million. [1] Includes holdings of international and regional organizations that were shifted to "other foreign assets" in subsequent periods. [2] Includes other countries, international organizations, or unallocated, not shown separately. [3] Includes other Western Hemisphere. [4] Reported by U.S. nonbanking concerns. [5] Not included elsewhere. [6] Data included in "Foreign assets in the U.S." [7] Data included in "Foreign official assets in the U.S." [8] Excludes U.S. Treasury securities. [9] Data included in "Other foreign assets in the U.S."

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business,* June 1989, and earlier issues.

No. 1391. U.S. Reserve Assets: 1970 to 1989

[**In billions of dollars.** As of **end of year,** except as indicated]

TYPE	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, June
Total	**14.5**	**16.2**	**19.0**	**26.8**	**30.1**	**34.0**	**33.7**	**34.9**	**43.2**	**48.5**	**45.7**	**47.8**	**60.5**
Gold stock [1]	11.1	11.6	11.2	11.2	11.2	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
Special drawing rights	.9	2.3	2.7	2.6	4.1	5.3	5.0	5.6	7.3	8.4	10.3	9.6	9.0
Foreign currencies	.6	.1	3.8	10.1	9.8	10.2	6.3	6.7	12.9	17.3	13.1	17.4	31.5
Reserve position in IMF [2]	1.9	2.2	1.3	2.9	5.1	7.3	11.3	11.5	11.9	11.7	11.3	9.7	8.9

[1] Includes gold in Exchange Stabilization Fund; excludes gold held under earmark at Federal Reserve banks for foreign and international accounts. Beginning 1975, gold assets were valued at $42.22 pursuant to the amending of Section 2 of the Par Value Modification Act, PL-93-110, approved September 21, 1973. [2] International Monetary Fund.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin,* monthly; and Department of the Treasury, *Treasury Bulletin,* monthly.

No. 1392. Foreign Direct Investment Position in the U.S.—Value, by Area and Industry: 1970 to 1988

[**In millions of dollars.** Book value at year end. 1970 covers U.S. firms, including real estate investments in which foreign interest or ownership was 25 percent or more; thereafter, ownership of 10 percent or more. Minus sign (−) indicates a negative position. See also *Historical Statistics, Colonial Times to 1970*, series U 47–74]

AREA AND INDUSTRY	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
All areas [1]	**13,270**	**27,662**	**83,046**	**108,714**	**124,677**	**137,061**	**164,583**	**184,615**	**220,414**	**271,788**	**328,850**
Petroleum	2,992	6,213	12,200	15,246	17,660	18,209	25,400	28,270	29,094	35,598	34,704
Manufacturing	6,140	11,386	32,993	40,533	44,065	47,665	51,802	59,584	71,963	94,745	121,434
Finance and insurance	2,256	3,152	12,027	14,748	17,933	10,934	24,881	27,429	34,978	35,675	39,829
Trade, wholesale and retail	994	4,844	15,210	20,537	23,604	26,513	31,219	35,873	42,920	50,009	64,929
Canada	**3,117**	**5,352**	**12,162**	**12,116**	**11,708**	**11,434**	**15,286**	**17,131**	**20,318**	**24,013**	**27,361**
Petroleum	190	596	1,817	1,801	1,550	1,391	1,544	1,589	1,432	1,426	1,614
Manufacturing	1,836	3,061	5,227	3,376	3,500	3,313	4,115	4,607	6,108	7,636	9,391
Finance and insurance	324	341	1,612	1,808	1,801	1,061	3,245	4,008	4,283	5,426	5,051
Europe	**9,554**	**18,584**	**54,688**	**72,377**	**83,193**	**92,936**	**108,211**	**121,413**	**144,181**	**186,076**	**216,418**
Petroleum	2,777	5,478	10,137	12,854	15,071	16,326	23,142	25,636	26,139	32,957	31,536
Manufacturing	4,091	6,673	21,953	30,897	33,032	36,866	39,083	45,841	56,016	73,981	91,932
Finance and insurance	1,805	2,088	8,673	10,084	12,601	8,450	15,945	17,022	21,787	25,835	27,328
United Kingdom	4,127	6,331	14,105	18,585	28,447	32,152	38,387	43,555	55,935	79,669	101,909
Petroleum	1,220	(D)	−257	−124	5,444	5,955	10,991	12,155	11,758	(D)	18,779
Manufacturing	1,391	1,833	6,159	7,602	8,504	9,221	9,179	11,687	16,500	27,061	37,021
Finance and insurance	1,141	932	3,350	4,569	5,661	3,777	5,485	6,483	10,163	(D)	11,402
Netherlands	2,151	5,347	19,140	26,824	26,191	29,182	33,728	37,056	40,717	49,115	48,991
Petroleum	1,311	(D)	9,265	11,547	8,098	8,646	9,981	11,481	(D)	(D)	(D)
Manufacturing	652	1,345	4,777	9,018	9,901	11,222	12,497	13,351	13,293	16,137	17,153
Switzerland	1,545	2,138	5,070	5,474	6,378	7,464	8,146	10,568	12,058	14,686	15,896
Manufacturing	1,147	1,308	3,116	3,278	3,584	4,165	4,774	6,881	7,520	7,996	8,072
Finance and insurance	351	365	1,033	1,059	1,473	1,830	(D)	5,425	2,517	(D)	(D)
West Germany	680	1,408	7,596	9,459	9,850	10,845	12,330	14,816	17,250	20,315	23,845
Manufacturing	(NA)	894	3,875	4,199	4,239	4,487	4,389	6,015	7,426	9,294	13,268
Finance and insurance	(NA)	(D)	1,248	1,339	1,426	1,416	1,902	(D)	1,962	2,646	1,443
Other Europe [2]	1,051	3,360	8,777	12,035	12,327	13,293	15,620	15,417	18,221	22,291	25,777
Petroleum	(NA)	490	991	1,315	1,380	1,679	2,080	(D)	(D)	(D)	(D)
Manufacturing	(NA)	1,293	4,026	6,800	6,804	7,771	7,704	7,907	11,277	13,493	16,418
Finance insurance	(NA)	(D)	1,193	546	429	−908	(D)	(D)	(D)	(D)	(D)
Japan	**229**	**591**	**4,723**	**7,697**	**9,677**	**11,336**	**16,044**	**19,313**	**26,824**	**35,151**	**53,354**
Other areas	**370**	**3,135**	**11,472**	**16,524**	**20,099**	**21,356**	**25,043**	**26,758**	**29,091**	**26,547**	**31,717**

D Withheld to avoid disclosure of data of individual companies. NA Not available. [1] Area totals include industries not shown separately. [2] Direct investments in 1988 (in millions of dollars): Belgium and Luxembourg, 4,549; France, 11,364; Italy, 667; and Sweden, 5,263.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1989, and earlier issues.

No. 1393. U.S. Affiliates of Foreign Companies—Assets, Sales, Employment, Land, Exports, and Imports: 1987

[A U.S. affiliate is a U.S. business enterprise in which one foreign owner (individual, branch, partnership, association, trust, corporation, or government) has a direct or indirect voting interest of 10 percent or more. Universe estimates based on a sample survey of nonbank affiliates with assets, sales, or net income of $10 million or more]

INDUSTRY	Total assets (mil. dol.)	Sales [1] (mil. dol.)	Employment [2] (1,000)	Employee compensation (mil. dol.)	GROSS BOOK VALUE: Plant and equipment [3] (mil. dol.)	GROSS BOOK VALUE: Land (mil. dol.)	Land owned (1,000 acres)	Merchandise exports [4] (mil. dol.)	Merchandise imports [4] (mil. dol.)
Total	**926,042**	**731,392**	**3,159.7**	**93,652**	**316,248**	**29,964**	**13,829**	**47,929**	**140,617**
Petroleum	80,129	74,494	116.6	4,903	83,338	2,598	967	1,238	8,981
Manufacturing	218,413	220,702	1,517.5	49,946	122,038	4,870	6,004	14,890	23,420
Chemicals and allied products	75,552	70,238	386.5	14,940	52,658	1,537	823	6,768	5,104
Wholesale trade [5]	97,382	273,887	313.7	10,536	20,574	1,277	602	29,472	105,323
Motor vehicles and auto parts and supplies	27,692	84,984	71.7	2,822	6,951	450	13	2,914	49,831
Farm-product raw materials	5,978	28,721	19.1	499	1,760	74	37	9,711	3,544
Retail trade	27,303	47,193	567.4	7,363	12,224	1,303	522	992	2,290
Finance, except banking	269,641	26,465	87.0	6,833	4,135	693	65	1	35
Insurance	110,089	39,106	87.2	2,758	2,881	530	14	–	(z)
Real estate	65,008	10,538	32.0	802	38,686	15,126	1,891	(z)	7
Services	29,483	18,001	267.1	5,167	19,567	2,354	93	199	84
Other	28,594	21,005	171.3	5,344	12,805	1,213	3,672	1,136	476

– Represents zero. Z Less than $500,000. [1] Excludes returns, discounts, allowances, and sales and excise taxes. [2] Average number of full-time and part-time employees. [3] Includes other property, value of mineral rights owned and capitalized value of mineral rights leased. [4] F.a.s. value at port of exportation. [5] Includes industries not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 1989, and *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies*, Preliminary 1987 Estimates.

No. 1394. Foreign Direct Investment in the U.S.—Gross Book Value of Property, Plant, and Equipment (PP&E), Employment, Land Owned, and Mineral Rights, by State: 1981 and 1987

[A U.S. affiliate is a U.S. business enterprise in which one foreign owner (individual, branch, partnership, association, trust corporation, or government) has a direct or indirect voting interest of 10 percent or more. Universe estimates based on a sample survey of nonbank affiliates with assets, sales, or net income of $10 million or more]

Division, state, and other area	Gross book value of property, plant, and equipment (mil. dol.)		Employment (1,000)		Land owned (1,000 acres)		Mineral rights owned or leased (1,000 acres)	
	1981	1987	1981	1987	1981	1987	1981	1987
Total	**187,956**	**346,212**	**2,416.6**	**3,159.7**	**13,259**	**13,829**	**67,193**	**42,531**
U.S	**178,003**	**328,413**	**2,402.3**	**3,143.2**	**13,256**	**13,825**	**61,946**	**35,677**
New England	**5,686**	**11,003**	**143.9**	**200.7**	(D)	**1,839**	**21**	**121**
Maine	1,637	1,299	17.7	19.1	2,602	1,651	21	59
New Hampshire	409	862	13.9	18.5	(D)	97	–	1
Vermont	315	377	6.0	6.0	61	42	(D)	19
Massachusetts	1,712	4,967	55.6	90.8	(D)	38	(D)	(Z)
Rhode Island	359	588	9.9	11.0	1	4	(Z)	40
Connecticut	1,254	2,910	40.8	55.3	9	7	(Z)	2
Middle Atlantic	**20,216**	**44,426**	**460.2**	**637.9**	**634**	**812**	(D)	**1,084**
New York	7,892	22,546	210.3	300.1	332	436	188	56
New Jersey	6,552	11,168	134.9	169.3	51	49	(D)	6
Pennsylvania	5,772	10,712	135.0	168.5	251	327	1,317	1,022
East North Central	**19,215**	**37,003**	**388.6**	**512.0**	**521**	**814**	(D)	**4,740**
Ohio	5,178	10,408	99.9	132.2	164	236	773	769
Indiana	1,883	3,764	47.0	65.8	35	60	(D)	181
Illinois	5,646	12,657	113.6	166.1	192	192	621	510
Michigan	4,188	7,561	65.9	94.5	87	260	1,578	2,899
Wisconsin	2,320	2,613	62.2	53.4	43	66	(D)	381
West North Central	**8,400**	**14,566**	**112.2**	**139.6**	**632**	**588**	**11,228**	**2,397**
Minnesota	2,902	4,291	33.0	41.0	295	294	51	49
Iowa	1,032	1,671	21.6	20.5	32	38	(Z)	(Z)
Missouri	1,894	4,147	32.6	48.5	108	70	227	111
North Dakota	1,155	1,289	3.5	2.7	40	34	5,587	901
South Dakota	299	383	1.3	1.9	18	21	583	139
Nebraska	241	477	5.6	7.2	79	67	2,423	271
Kansas	877	2,308	14.6	17.8	60	64	2,357	926
South Atlantic	**33,271**	**53,524**	**476.0**	**644.1**	**2,392**	**2,376**	(D)	**2,573**
Delaware	1,869	3,400	36.0	36.9	16	11	(Z)	(Z)
Maryland	2,103	3,112	45.1	53.3	43	50	(D)	(Z)
District of Columbia	547	1,503	3.2	7.1	(Z)	(Z)	–	1
Virginia	3,046	6,632	49.8	79.7	145	138	396	163
West Virginia	3,992	4,987	35.4	24.9	181	201	1,644	1,546
North Carolina	5,543	9,515	89.0	132.9	259	188	2	33
South Carolina	5,318	6,012	65.1	74.8	462	186	20	23
Georgia	4,558	8,879	78.5	117.7	773	709	64	70
Florida	6,295	9,484	73.9	116.8	513	893	798	737
East South Central	**9,802**	**16,200**	**121.7**	**170.8**	**1,398**	**1,231**	**3,767**	**1,629**
Kentucky	1,848	4,377	26.0	37.4	60	129	766	533
Tennessee	3,747	5,553	57.4	80.7	402	108	934	98
Alabama	2,776	3,883	27.0	35.1	620	625	760	405
Mississippi	1,431	2,387	11.3	17.6	316	369	1,307	593
West South Central	**34,651**	**61,912**	**268.5**	**305.2**	**1,337**	**1,764**	**10,681**	**7,236**
Arkansas	636	1,256	17.5	20.3	80	111	553	235
Louisiana	7,872	14,289	47.0	50.8	192	720	1,575	889
Oklahoma	2,760	4,992	25.0	26.5	29	26	1,560	1,516
Texas	23,383	41,375	179.0	207.6	1,036	907	6,993	4,596
Mountain	**12,353**	**20,217**	**97.9**	**120.2**	**1,672**	**2,100**	**21,138**	**11,870**
Montana	1,235	1,611	3.0	3.5	332	308	6,132	1,857
Idaho	312	391	3.8	4.0	(D)	34	897	197
Wyoming	2,144	2,903	4.2	4.1	(D)	133	2,983	2,002
Colorado	2,369	4,485	24.7	29.5	509	380	2,649	1,445
New Mexico	997	2,739	7.9	14.0	231	650	1,734	2,841
Arizona	2,949	4,015	30.6	42.4	221	179	501	524
Utah	1,791	2,483	16.8	12.0	309	94	3,462	1,107
Nevada	556	1,590	6.9	10.7	70	322	2,780	1,897
Pacific	**34,409**	**69,562**	**313.3**	**412.7**	(D)	**2,301**	**7,120**	**4,027**
Washington	2,430	3,577	26.0	38.4	327	389	2,084	2,074
Oregon	845	1,785	13.1	20.5	351	908	750	530
California	20,404	42,607	248.4	324.2	823	926	1,446	762
Alaska	(D)	18,390	8.8	7.2	(D)	21	2,840	660
Hawaii	(D)	3,203	17.0	22.4	111	57	(Z)	1
Puerto Rico	413	507	9.5	11.0	2	1	(Z)	(Z)
Other territories and offshore	7,496	15,159	3.1	3.6	1	2	5,244	6,853
Foreign	2,044	2,134	1.6	1.7	(D)	–	3	–

– Represents zero. D Withheld to avoid disclosure of data of individual States. Z Less than 500 acres.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 1989, and *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies, Preliminary 1987 Estimates.*

No. 1395. U.S. Businesses Acquired or Established by Foreign Direct Investors, by Industry of U.S. Business Enterprise: 1987 and 1988

[Foreign direct investment is the ownership or control, directly or indirectly, by one foreign individual branch, partnership, association, trust, corporation, or government of 10 percent or more of the voting securities of a U.S. business enterprise or an equivalent interest in an unincorporated one. Data represent number and full cost of acquisitions of existing U.S. business enterprises, including business segments or operating units of existing U.S. business enterprises and establishments of new enterprises. Investments may be made by the foreign direct investor itself, or indirectly by an existing U.S. affiliate of the foreign direct investor. Covers investments in U.S. business enterprises with assets of over $1 million, or ownership of 200 acres of U.S. land]

Industry	1987						1988, prel.					
	Investments			Investors			Investments			Investors		
	Total	Acquisition	Establishments	Total	Foreign direct investors	U.S. affiliates	Total	Acquisition	Establishments	Total	Foreign direct investors	U.S. affiliates
NUMBER OF INVESTMENTS [1]												
Total	**978**	**543**	**435**	**1,051**	**480**	**571**	**1,012**	**646**	**366**	**1,090**	**416**	**674**
Petroleum	27	13	14	27	17	10	30	25	5	34	10	24
Manufacturing	316	253	63	347	129	218	409	342	67	440	153	287
Wholesale trade	68	54	14	73	22	51	64	51	13	64	22	42
Retail trade	33	31	2	34	17	17	30	27	3	30	4	26
Banking	17	5	12	17	10	7	10	5	5	10	6	4
Finance, except banking	40	16	24	41	22	19	21	8	13	24	13	11
Insurance	11	9	2	11	4	7	10	9	1	10	4	6
Real estate	260	39	221	281	150	131	241	32	209	267	125	142
Services	110	75	35	120	58	62	121	98	23	129	49	80
Other [2]	96	48	48	100	51	49	76	49	27	82	30	52
INVESTMENT OUTLAYS (mil. dol.)												
Total	**40,310**	**33,933**	**6,377**	**40,310**	**11,773**	**28,536**	**65,019**	**60,003**	**5,016**	**65,019**	**16,400**	**48,619**
Petroleum	1,107	499	609	1,107	614	493	3,956	3,927	30	3,956	200	3,756
Manufacturing	19,751	18,896	855	19,751	4,552	15,200	31,580	29,743	1,837	31,580	11,054	20,526
Wholesale trade	1,271	1,245	26	1,271	104	1,166	2,299	2,184	114	2,299	143	2,156
Retail trade	1,212	1,210	2	1,212	738	474	7,985	7,655	330	7,985	354	7,630
Banking	924	774	150	924	149	775	1,771	1,764	7	1,771	447	1,324
Financing, except banking	1,604	1,333	270	1,604	959	645	648	446	202	648	403	245
Insurance	165	138	28	165	37	128	5,793	5,791	2	5,793	335	5,458
Real estate	4,765	1,544	3,220	4,765	936	3,829	2,788	808	1,980	2,788	1,326	1,462
Services	7,630	6,771	859	7,630	2,811	4,819	4,687	4,371	316	4,687	1,160	3,527
Other [2]	1,881	1,522	359	1,881	875	1,007	3,513	3,314	199	3,513	979	2,533

[1] Excludes investments that do not meet asset or acreage criteria in headnote. [2] Includes agriculture, forestry, and fishing; mining; construction; transportation; and communication and public utilities.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 1989.

No. 1396. U.S. Businesses Acquired by Foreign Direct Investors—Assets, Sales, and Employment, by Industry of U.S. Business Enterprise: 1987 and 1988

[See headnote, table 1395. Minus sign (–) indicates loss]

Industry	1987					1988				
	Total assets (mil. dol.)	Sales (mil. dol.)	Net income (mil. dol.)	Employment (1,000)	Acres of land owned (1,000)	Total assets (mil. dol.)	Sales (mil. dol.)	Net income (mil. dol.)	Employment (1,000)	Acres of land owned (1,000)
Total	**117,219**	**45,235**	**907**	**374.2**	**282.0**	**116,676**	**81,049**	**2,811**	**643.1**	**3,950.8**
Petroleum	684	1,825	–34	1.6	1.2	6,069	9,295	394	9.5	(D)
Manufacturing	23,161	22,596	98	217.3	154.4	35,351	29,995	601	257.0	68.7
Wholesale trade	1,555	2,648	48	12.0	1.7	3,173	5,236	80	20.1	12.1
Retail trade	1,877	2,659	30	25.1	.7	9,264	14,700	282	171.6	4.0
Banking	9,475	787	65	4.0	(D)	11,544	1,067	109	7.5	.4
Finance, except banking	68,828	6,913	433	40.5	(D)	8,884	255	(Z)	.7	–
Insurance	547	257	25	1.6	(D)	16,520	6,706	617	29.4	1.6
Real estate	2,209	347	39	.9	26.2	825	226	29	1.4	(D)
Services	4,925	3,881	160	38.8	1.9	7,925	4,322	237	74.0	10.5
Other [1]	3,958	3,322	44	32.4	94.5	17,123	9,247	463	71.9	3,797.4

– Represents zero. D Withheld to avoid disclosure of data of individual companies. Z Less than $500,000.
[1] Includes agriculture, forestry, and fishing; mining; construction; transportation; and communication and public utilities.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 1989.

No. 1397. U.S. Investment Position Abroad, by Country: 1980 to 1988

[**In millions of dollars.** Direct investments represent private enterprises in one country owned or controlled by investors in another country or in the management of which foreign investors have an important role. Negative position occurs when U.S. parent company's liabilities to the foreign affiliate are greater than its equity in, and loans to the foreign affiliate. See also *Historical Statistics, Colonial Times to 1970*, series U 41–46]

COUNTRY	1980	1984	1985	1986	1987	1988			
						Total [1]	Manufacturing	Petroleum	Finance [2]
All countries	**215,375**	**211,480**	**230,250**	**259,800**	**307,983**	**326,900**	**133,819**	**59,658**	**60,604**
Developed countries	**158,214**	**157,123**	**172,058**	**194,280**	**232,690**	**245,498**	**108,850**	**40,299**	**43,240**
Canada	45,119	46,730	46,909	50,629	58,377	61,244	28,141	11,711	10,377
Europe [3]	96,287	91,589	105,171	120,724	146,243	152,232	67,930	21,323	29,810
Austria	524	530	493	715	714	1,167	95	127	30
Belgium	6,259	4,584	5,038	5,006	6,757	7,224	3,897	551	780
Denmark	1,266	1,144	1,281	1,085	1,091	1,191	265	(D)	174
France	9,347	6,406	7,643	8,952	11,771	12,495	8,047	926	446
Greece	347	265	210	87	132	194	107	45	(D)
Ireland	2,319	2,869	3,693	4,308	5,135	5,743	4,138	−9	1,662
Italy	5,397	4,594	5,906	7,426	9,008	9,075	6,561	401	481
Luxembourg	852	424	690	802	787	756	456	3	93
Netherlands	8,039	5,839	7,129	11,643	14,361	15,367	6,073	2,212	3,178
Norway	1,679	2,841	3,215	3,216	3,844	3,834	36	3,276	119
Portugal	257	205	237	288	412	425	194	(D)	(D)
Spain	2,678	2,139	2,281	2,707	3,789	4,368	2,626	96	26
Sweden	1,474	844	933	918	1,111	1,089	627	(D)	50
Switzerland	11,280	14,725	15,766	16,441	19,518	18,672	1,734	(D)	7,718
Turkey	207	228	234	215	207	193	62	41	-
United Kingdom	28,460	28,553	33,024	35,389	42,031	47,991	18,867	9,327	12,850
West Germany	15,415	14,823	16,764	20,932	24,792	21,673	14,200	2,043	1,921
Japan	6,225	7,936	9,235	11,472	14,671	16,868	7,876	3,468	1,258
Australia, New Zealand, and South Africa	10,583	10,868	10,743	11,455	13,399	15,154	4,903	3,798	1,795
Australia	7,654	8,918	8,772	9,340	11,143	13,058	4,178	3,089	1,685
New Zealand	579	510	576	598	732	826	217	(D)	41
South Africa	2,350	1,440	1,394	1,517	1,524	1,270	508	(D)	69
Developing countries	**53,206**	**49,153**	**52,764**	**61,072**	**70,676**	**76,837**	**24,969**	**16,007**	**17,364**
Latin America	38,761	24,627	28,261	36,851	44,905	49,283	17,850	4,974	14,535
South America [3]	16,342	18,714	17,623	19,813	20,690	21,687	12,378	2,421	1,741
Argentina	2,540	2,753	2,705	2,913	2,673	2,390	1,215	405	176
Brazil	7,704	9,237	8,893	9,268	10,288	11,810	9,004	244	1,272
Chile	536	47	88	265	343	731	9	71	220
Colombia	1,012	2,111	2,148	3,291	3,241	2,429	710	399	(D)
Ecuador	322	371	361	413	466	448	154	189	(D)
Peru	1,665	1,902	1,243	1,103	1,084	1,064	61	348	(D)
Venezuela	1,908	1,761	1,588	1,987	2,036	2,273	1,141	634	6
Central America	10,193	9,853	9,658	10,698	11,657	12,441	5,224	1,593	3,227
Mexico	5,986	4,597	5,088	4,623	4,898	5,516	4,586	60	−20
Panama	3,170	4,474	3,959	5,525	6,131	6,140	248	1,419	3,221
Other [3]	1,037	782	611	549	629	785	390	114	26
Costa Rica	303	158	113	113	141	174	128	1	9
El Salvador	105	94	73	50	51	57	18	22	3
Guatemala	229	240	213	181	174	203	110	42	18
Honduras	288	288	171	167	185	231	92	28	−3
Other Western Hemisphere [3]	12,226	−3,941	980	6,341	12,558	15,155	248	960	9,567
Bahamas, The	2,712	3,331	3,795	2,991	2,706	2,244	33	206	882
Bermuda	11,045	13,019	13,116	15,373	19,100	19,880	-	114	19,265
Dominican Republic	316	239	212	199	156	141	66	27	2
Jamaica	407	257	122	106	102	156	70	(D)	(D)
Netherlands Antilles	−4,336	−24,664	20,499	−16,969	−14,257	11,796	24	(D)	−12,055
Trinidad and Tobago	951	667	484	424	388	429	10	(D)	4
Other Africa [3]	3,778	4,456	4,497	3,999	4,488	4,603	311	3,548	365
Egypt	1,038	1,538	1,926	1,807	1,680	1,705	50	1,405	−2
Libya	575	348	325	241	310	312	-	299	-
Nigeria	18	327	44	781	1,159	1,342	58	1,214	-
Middle East [3]	2,163	5,025	4,606	4,891	4,589	4,090	522	2,317	779
Israel	379	733	717	427	653	722	228	58	133
Saudi Arabia	1,037	2,352	2,442	2,460	2,140	2,047	252	731	575
United Arab Emirates	384	981	792	840	703	680	22	562	(D)
Bahrain	−16	790	440	320	91	...324	-	−49	−2
Other Asia and Pacific	8,505	15,045	15,400	15,332	16,694	18,860	6,286	5,168	1,685
China: Taiwan	498	736	750	869	1,280	1,546	1,161	(D)	(D)
Hong Kong	2,078	3,253	3,295	3,912	4,390	5,028	594	237	1,253
India	398	329	383	421	439	457	415	5	2
Indonesia	1,314	4,093	4,475	3,217	3,050	3,006	92	2,638	46
Malaysia	632	1,101	1,140	1,021	1,019	1,363	521	735	29
Philippines	1,259	1,263	1,032	1,299	1,220	1,305	612	127	145
Singapore	1,204	1,932	1,874	2,256	2,462	3,005	2,000	559	35
South Korea	575	716	743	782	1,003	1,302	497	10	137
Thailand	361	1,081	1,074	1,078	1,274	1,126	326	596	(D)
Other	186	541	635	476	556	721	68	(D)	3
China: Mainland	−6	209	311	167	207	310	61	110	-
International	**3,955**	**5,204**	**5,428**	**4,448**	**4,617**	**4,565**	**-**	**3,351**	**-**
Addendum—OPEC [4]	6,090	10,481	10,383	10,235	10,143	10,229	1,721	6,383	728

- Represents zero. D Suppressed to avoid disclosure of data of individual companies. [1] Includes industries not shown separately. [2] Includes insurance. [3] Includes countries not shown separately. [4] OPEC=Organization of Petroleum Exporting Countries. Includes Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1989.

No. 1398. U.S. Government Foreign Grants and Credits: 1946 to 1988

[In millions of dollars. "P.L." means Public Law. For explanation of minus sign (–), see headnote, table 1399. See also text, section 29, and *Historical Statistics, Colonial Times to 1970*, series U 75-101]

PROGRAM	1946–1955, total	1956–1965, total	1966–1975, total	1976–1985, total	1984	1985	1986	1987	1988
Total, net	**51,509**	**49,723**	**70,367**	**104,250**	**13,986**	**14,322**	**14,990**	**9,356**	**8,183**
Investment in international financial institutions [1]	635	655	2,719	10,432	1,427	1,302	1,481	1,212	1,314
Under assistance programs, net	**50,875**	**49,067**	**67,647**	**93,817**	**12,558**	**13,020**	**13,509**	**8,145**	**6,869**
Developed countries [2]	35,150	5,834	616	757	96	–529	815	–801	–129
Developing countries [2]	15,725	43,233	67,032	93,060	12,462	13,549	12,694	8,945	6,999
Net new military grants	14,200	21,564	30,236	14,957	2,320	3,130	4,125	3,131	3,578
Developed countries [2]	8,910	7,931	691	1,369	154	123	162	261	305
Developing countries [2]	5,291	13,633	29,545	13,587	2,166	3,007	3,963	2,870	3,274
Gross new grants	14,434	21,805	30,281	14,993	2,326	3,133	4,128	3,136	3,580
Foreign Assistance Act [3]	13,427	21,769	30,281	14,993	2,326	3,133	4,128	3,136	3,580
Military supplies and services	12,282	20,662	9,802	2,438	158	49	99	58	94
Military assistance, service funded [4]	-	8	18,161	-	-	-	-	-	-
Financing of military purchases [5]	-	-	1,584	10,122	2,022	2,964	3,873	2,816	3,185
Relocation of facilities in Israel	-	-	-	800	-	-	-	-	-
Other special programs	1,145	1,100	734	1,633	145	121	157	263	301
Other	1,007	36	-	-	-	-	-	-	-
Less: Reverse grants and returns	*234*	*241*	*45*	*36*	*6*	*3*	*3*	*5*	*2*
Other grants, credits, and other assistance (through net accumulation of foreign currency claims)	36,675	27,503	37,412	78,860	10,238	9,890	9,384	5,013	3,291
Developed countries [2]	26,240	2,097	–75	–612	58	–652	653	1,062	–434
Developing countries [2]	10,434	29,600	37,487	79,473	10,296	10,542	8,731	6,075	3,725
Net new economic and technical aid grants [6]	27,529	17,675	21,748	43,362	6,519	8,258	7,857	7,363	7,351
Developed countries [2]	19,424	780	–182	464	120	84	98	67	77
Developing countries [2]	8,104	16,896	21,929	42,898	6,399	8,174	7,759	7,296	7,273
Gross new grants	28,769	17,993	22,003	43,371	6,519	8,258	7,908	7,363	7,351
Foreign Assistance Act [3]	17,711	12,189	12,191	31,525	5,055	6,505	6,439	5,886	5,708
Farm products disposals:									
Foreign currencies, P.L. 83-480 [7]	-	2,048	4,234	186	9	6	3	6	1
Famine and other urgent relief	530	2,704	2,862	5,086	668	874	574	684	720
Payment of transportation	-	494	946	1,890	231	331	265	211	212
Food for development loan forgiveness	-	-	-	353	40	11	53	37	133
Supplies to military or trusteeship administration areas	5,528	132	536	1,246	141	153	217	173	202
Peace Corps	-	232	912	979	110	121	130	126	151
Other	5,000	194	321	2,106	244	257	228	241	224
Less: Reverse grants and returns	*1,240*	*318*	*255*	*9*	-	–	*52*	-	-
Net new credits [8]	8,605	7,025	16,954	35,786	3,713	1,623	1,522	–2,323	–4,036
Developed countries [2]	6,627	3,207	310	1,019	–176	–730	557	–1,091	–485
Developing countries [2]	1,978	10,232	16,644	36,805	3,889	2,353	965	–1,232	–3,551
New credits	11,958	15,429	37,422	72,196	7,777	5,914	7,171	4,853	5894
Export-Import Bank Act	4,241	5,257	15,505	22,096	2,493	1,794	1,260	998	1,057
Foreign Assistance Act [3]	1,919	6,196	12,053	35,324	3,945	2,759	2,932	2,529	3,471
Country program loans	1,765	5,722	8,362	10,733	753	671	595	347	450
Financing or military purchases	9	247	3,089	24,288	3,185	2,090	2,307	2,169	2,992
Social Progress Trust Fund	-	226	487	142	–4	–16	-5	–9	–4
Other	145	2	116	162	11	13	35	22	34
P.L. 83-480 [7]	48	3,839	7,161	8,142	909	1,055	991	826	951
Loans of foreign currency:									
To foreign governments	48	3,285	1,843	10	(z)	(z)	-	2	(z)
To private enterprises	-	202	217	16	2	–	2	3	3
Long-term credit sales	-	352	5,101	8,116	907	1,055	988	822	948
P.L. 80-806 [9]	-	-	2,433	5,559	428	300	1,989	500	414
Other	5,750	137	271	1,074	2	6	-	-	-
Less: Principal collections	*3,353*	*8,404*	*20,469*	*36,410*	*4,064*	*4,290*	*5,649*	*7,176*	*9,930*
Export-Import Bank Act	1,787	4,458	9,282	15,222	2,169	2,488	2,916	4,293	1,499
Foreign Assistance Act [3]	38	1,263	3,557	11,234	1,329	1,238	1,674	2,336	7,715
Country program loans	1	944	2,481	4,212	436	460	537	470	485
Financing of military purchases	2	222	852	6,492	855	735	1,095	1,835	7,197
Social Progress Trust Fund	-	9	198	354	24	24	17	16	15
Other	35	88	25	177	14	18	25	14	18
P.L. 83-480 [7]	-	180	3,753	2,923	330	289	368	275	468
Loans of foreign currency:									
To foreign governments	-	111	2,354	551	43	39	37	29	24
To private enterprises	-	43	175	96	4	2	3	1	1
Long-term credit sales	-	27	1,223	2,276	283	248	327	245	444
Lend-lease, surplus property, and grant settlements	675	2,001	1,438	386	22	18	20	16	16
P.L. 80-806 [9]	-	–	1,763	4,748	108	158	569	152	126
Other	853	501	677	1,897	106	100	101	105	106

See footnotes at end of table.

No. 1398. U.S. Government Foreign Grants and Credits: 1946 to 1988—Continued

[In millions of dollars. See headnote, p. 798]

PROGRAM	1946–1955, total	1956–1965, total	1966–1975, total	1976–1985, total	1984	1985	1986	1987	1988
Other assistance (through net accumulation of foreign currency claims) [10]	541	2,802	−1,290	−287	7	9	5	−27	−23
Developed countries [3]	190	330	−203	−56	−1	−7	−3	−38	−26
Developing countries [2]	351	2,472	−1,086	−231	8	15	8	11	3
Currency claims acquired	813	11,498	6,888	1,227	79	97	134	84	81
Sales of farm products	813	11,170	3,013	114	1	10	49	41	35
Second-stage operations [11]	–	329	3,875	1,113	78	87	85	43	46
Less: Currencies disbursed	*272*	*8,696*	*8,177*	*1,514*	*72*	*89*	*129*	*111*	*105*
Economic grants and credits to purchasing country	182	6,863	6,238	180	5	2	10	15	4
Other uses	90	1,833	1,940	1,334	67	86	119	96	101

– Represents zero. Z Less than $500,000. [1] For details, see table 1399. [2] Developed countries include Australia, Canada, Japan, New Zealand, South Africa, all countries listed under "Western Europe" in table 1399, except Portugal, Spain (through 1981), Yugoslavia, and Malta, and all countries listed under "Eastern Europe" in table 1399. Developing countries include all other countries listed in table 1399 (including Spain through 1981). [3] Foreign Assistance Act of 1961 (P.L. 87-195), as amended. Also includes predecessor and related programs. [4] Includes military assistance under Dept. of Defense Appropriation Act, 1966 (P.L. 89-394) and later acts. [5] Includes funds made available under Public Law 93-199 and subsequent legislation to release Israel from its contractual liability to pay for defense articles and services purchased under other legislation. [6] Net new grants are not adjusted for settlements for postwar relief and other grants under agreements, and net new credits exclude prior grants converted into credits, which were as follows: 1946-55, $1,463 million; 1956-65, $491 million; 1972, $994 million. Repayments on these settlements are included in net new credits. [7] Agricultural Trade Development and Assistance Act. [8] Outstanding credits on Dec. 31, 1988, totaled $65,926 million representing net credits extended since organization of Export-Import Bank, Feb. 12, 1934, less chargeoffs and net adjustments due to exchange rates ($2,038 million), and excluding World War I debts. The amount repayable in dollars at U.S. Government option was $64,477 million; the remainder was repayable in foreign currencies, commodities, or services, at the option of the borrowers. [9] Commodity Credit Corporation Charter Act. [10] Equivalent value of currencies still available to be used, including some funds advanced from foreign governments and after loss by exchange rate fluctuations ($1,589 million), was $133 million on Dec. 31, 1988. [11] Includes foreign currencies acquired from triangular trade operations and principal and interest collections on credits, originally extended under P.L. 83-480, which—since enactment of P.L. 87-128—are available for the same purposes as P.L. 83-480 currencies.

Source: U.S. Bureau of Economic Analysis, press releases and unpublished data.

No. 1399. U.S. Government Foreign Grants and Credits, by Type and Country: 1946 to 1988

[In millions of dollars. See text, section 29. Negative figures (–) occur when the total of grant returns, principal repayments, and/or foreign currencies disbursed by the U.S. Government exceeds new grants and new credits utilized and/or acquisitions of foreign currencies through new sales of farm products. See also *Historical Statistics, Colonial Times to 1970*, series U 75-186]

TYPE AND COUNTRY	1946–1955, total	1956–1965, total	1966–1975, total	1976–1985, total	1984	1985	1986	1987	1988, prel.
Total, net	**51,509**	**49,723**	**70,367**	**104,250**	**13,986**	**14,322**	**14,990**	**9,356**	**8,183**
Investment in financial institutions	**635**	**655**	**2,719**	**10,432**	**1,427**	**1,302**	**1,481**	**1,212**	**1,314**
African Development Bank	–	–	–	54	18	18	15	20	9
African Development Fund	–	–	–	125	57	20	53	45	40
Asian Development Bank	–	–	110	602	80	135	110	95	111
Inter-American Development Bank	–	300	1,321	2,770	353	321	351	189	124
International Bank for Reconst. and Development	635	–	13	353	27	41	241	232	95
International Development Association	–	320	1,275	6,417	892	768	658	546	826
International Finance Corporation	–	35	–	111	–	–	28	7	25
Under assistance programs	**50,875**	**49,067**	**67,647**	**93,817**	**12,558**	**13,020**	**13,509**	**8,145**	**6,869**
Western Europe	**33,067**	**6,752**	**1,004**	**1,626**	**253**	**−203**	**−9**	**−167**	**119**
Austria	1,001	193	−19	34	3	10	−9	−9	−9
Belgium and Luxembourg	1,570	305	17	−46	−17	−15	−9	−9	−9
Denmark	596	276	64	−58	−12	−30	−7	−6	–
Finland	86	−26	−19	21	−11	−2	−47	8	6
France	8,661	−171	−93	−222	−17	−47	26	−13	−14
Iceland	34	33	−8	−12	−1	−1	−2	−2	−4
Ireland	146	−16	−51	7	−4	(z)	2	−2	−6
Italy	3,851	1,435	85	133	−12	−84	−107	−21	−28
Malta	1	3	47	34	–	(z)	(z)	(z)	(z)
Netherlands	1,716	322	116	−180	−14	−9	−1	−1	–
Norway	697	362	379	−257	−4	−31	−16	−4	–
Portugal	248	241	34	1,003	129	101	178	8	66
Spain	258	1,203	607	965	222	−85	66	−11	−113
Sweden	107	−20	17	−1	−3	−6	−6	−5	−3
United Kingdom	7,458	105	−546	−964	−134	−121	−202	−347	−103
West Germany	3,881	10	−117	−117	−6	−2	–	−3	–
Yugoslavia	1,356	1,151	84	174	17	18	−21	−41	−2
Other [1] and unspecified	1,398	1,348	407	1,112	116	102	200	290	338

See footnotes at end of table.

No. 1399. U.S. Government Foreign Grants and Credits, by Type and Country: 1946 to 1988—Continued

[In millions of dollars. See headnote, p. 799]

COUNTRY	1946–1955, total	1956–1965, total	1966–1975, total	1976–1985, total	1984	1985	1986	1987	1988, prel.
Eastern Europe	**823**	**501**	**226**	**1,029**	**5**	**15**	**1,249**	**−161**	**−125**
Czechoslovakia	136	-	-	−5	−3	-	-	-	-
Poland	350	555	−75	1,017	67	45	1,348	44	−57
Romania	-	-	92	55	−18	35	−26	−50	−1
Soviet Union	292	59	214	−44	39	−68	−66	−66	−66
Other and unspecified	45	5	−5	6	−2	3	−6	-	-
Near East and South Asia	**4,944**	**16,828**	**17,195**	**50,816**	**6,458**	**7,436**	**7,926**	**6,269**	**2,011**
Afghanistan	31	227	185	56	−4	−21	−3	29	29
Bangladesh	-	-	701	1,671	265	175	178	150	145
Cyprus	-	19	20	138	1	17	21	17	14
Egypt	41	1,009	271	13,600	1,926	2,231	2,729	1,614	3,481
Greece	2,026	1,281	905	362	−14	−21	72	304	488
India	370	4,890	3,810	1,040	83	42	36	64	96
Iran	314	1,061	914	−847	-	-	-	-	−19
Iraq	13	81	−5	5	−8	−12	−5	21	29
Israel	390	483	3,760	25,417	3,094	3,807	4,030	3,111	−1,831
Jordan	26	495	618	1,320	−15	−1	7	109	−232
Lebanon	15	78	90	236	32	34	−12	−4	−12
Nepal	3	86	105	177	24	26	20	22	17
Oman	-	-	(z)	79	14	−4	12	−33	9
Pakistan	189	3,092	2,048	1,971	415	481	347	235	367
Saudi Arabia	12	35	23	−20	−2	−2	−1	-	-
Sri Lanka	(z)	89	153	512	84	90	65	40	40
Syria	1	57	15	262	1	(z)	(z)	(z)	-
Turkey	1,295	3,020	2,703	3,760	442	479	298	449	−720
Yemen (Sanaa)	-	40	24	216	33	41	39	47	29
UNRWA [2]	131	274	296	596	67	75	67	61	54
Other and unspecified	85	510	559	264	22	3	27	34	26
Africa	**147**	**2,272**	**3,610**	**11,091**	**1,803**	**2,004**	**1,300**	**1,105**	**1,118**
Algeria	1	135	263	345	−108	−131	−128	−98	−58
Angola	-	-	6	115	−5	38	27	24	1
Benin	-	7	12	45	4	5	3	3	4
Botswana	-	(z)	35	169	28	29	20	27	18
Burkina	-	5	40	289	40	49	30	24	13
Burundi	-	4	5	62	13	9	5	5	4
Cameroon	-	16	50	150	20	5	11	13	20
Cape Verde	-	-	1	68	6	5	9	7	4
Chad	(z)	5	20	146	24	41	25	35	36
Ethiopia	13	200	297	310	30	157	88	13	58
Ghana	(z)	64	203	155	20	18	13	9	11
Guinea	-	58	68	74	4	11	16	24	15
Ivory Coast	-	14	57	57	2	12	5	3	28
Kenya	(z)	34	76	549	68	82	39	46	42
Lesotho	-	(z)	27	198	37	23	23	24	20
Liberia	24	139	86	459	107	71	52	23	20
Libya	25	192	6	-	-	-	-	-	-
Madagascar	(z)	7	13	87	20	24	21	17	12
Malawi	-	5	30	57	10	8	11	19	31
Mali	-	12	58	199	32	51	45	34	43
Mauritania	-	1	20	162	26	38	19	12	9
Morocco	7	464	413	950	313	138	177	85	178
Mozambique	-	-	1	176	21	51	34	69	50
Niger	-	5	64	223	25	93	39	43	21
Nigeria	(z)	87	284	267	49	151	1	1	169
Rwanda	-	2	13	91	19	16	24	16	13
Senegal	-	18	48	361	75	51	45	49	38
Sierra Leone	(z)	22	36	86	9	11	12	12	8

See footnotes at end of table.

No. 1399. U.S. Government Foreign Grants and Credits, by Type and Country: 1946 to 1988—Continued

[In millions of dollars. See headnote, p. 799]

COUNTRY	1946–1955, total	1956–1965, total	1966–1975, total	1976–1985, total	1984	1985	1986	1987	1988, prel.
Africa—Continued									
Somalia	(Z)	42	47	582	115	117	111	68	55
Sudan	–	86	52	1,358	223	443	164	101	101
Swaziland	–	(Z)	8	58	7	8	9	15	10
Tanzania	2	34	123	259	22	21	10	29	13
Togo	–	9	18	61	8	9	10	13	7
Tunisia	2	407	376	563	113	40	7	–7	–173
Uganda	–	12	33	40	3	5	4	17	20
Zaire	(Z)	258	342	938	208	66	104	113	139
Zambia	–	1	35	331	53	51	77	36	17
Zimbabwe	–	(Z)	(Z)	271	74	54	22	33	5
Other and unspecified	71	–75	343	782	87	130	117	153	114
Far East and Pacific	**9,678**	**16,199**	**34,778**	**9,639**	**658**	**220**	**–64**	**–2,614**	**290**
Australia	–9	(Z)	276	–12	–5	–39	–118	–30	–26
Burma	25	134	43	31	7	7	7	10	8
Cambodia	28	327	1,771	–	–	–	–	–	–
China: Mainland	–	–	–	49	20	6	–8	9	48
Taiwan	1,267	2,681	1,523	648	–144	–255	–262	–970	–8
Hong Kong	3	35	41	11	–14	–14	–11	–8	–8
Indonesia	246	501	1,388	1,661	224	37	13	–12	–11
Japan and Ryukyu Islands	3,267	1,318	–345	–210	–99	–87	–88	–319	–4
Laos	37	647	1,868	–	–	–	–	–	–
Malaysia	1	30	86	39	–6	–11	–15	–12	–9
New Zealand	3	2	95	–68	–13	–11	–10	–4	–4
Pacific Islands, Trust Territory of the [3]	28	89	488	1,260	143	154	219	166	146
Philippines	1,028	554	729	1,469	141	334	449	332	408
Singapore	–	(Z)	78	110	56	–53	–184	1	1
South Korea	1,420	4,744	5,426	3,518	208	58	–146	–1,717	–383
Thailand	192	727	996	733	110	68	62	–77	68
Vietnam	244	3,566	19,721	–	–	–	–	–	–
Other and unspecified	1,898	844	595	400	31	26	27	18	65
Western Hemisphere	**1,248**	**5,181**	**6,816**	**9,878**	**2,077**	**2,142**	**1,830**	**2,103**	**1,340**
Argentina	66	342	34	21	16	14	85	27	16
Bahamas, The	(Z)	(Z)	29	–25	–	(Z)	1	(Z)	–2
Bermuda	–	–	18	–18	–	–	–	–	–
Bolivia	77	288	270	418	39	71	111	124	61
Brazil	509	1,400	1,518	400	90	368	7	33	–20
Canada	–1	4	272	317	98	–87	–61	–158	–50
Chile	100	740	724	–565	–28	–7	56	26	10
Colombia	43	446	846	299	104	93	63	22	–21
Costa Rica	15	83	103	687	183	213	139	159	106
Dominican Republic	2	184	360	552	141	154	238	78	49
Ecuador	32	131	144	153	46	50	66	60	44
El Salvador	3	56	93	1,682	446	448	376	417	401
Guatemala	23	146	160	272	25	52	91	159	139
Guyana	(Z)	7	71	36	–1	(Z)	2	8	5
Haiti	27	75	42	374	44	56	87	94	35
Honduras	6	53	113	802	210	243	224	212	190
Jamaica	16	3	120	643	151	151	121	92	94
Mexico	225	178	305	1,162	97	–40	–29	549	49
Nicaragua	8	67	150	197	1	–2	(Z)	(Z)	(Z)
Panama	10	103	210	205	54	43	24	10	10
Paraguay	4	67	86	22	(Z)	1	(Z)	(Z)	–1
Peru	55	304	274	758	212	181	98	73	60
Trinidad and Tobago	–	35	21	151	19	–21	–32	–33	–11
Uruguay	8	90	116	–9	–3	–4	11	–3	9
Venezuela	6	156	115	–35	–37	–30	–31	–38	–28
Central American Bank for Economic Integration	–	6	121	36	–4	–4	–5	–4	–3
Caribbean Development Bank	–	–	8	108	1	1	–1	–1	–2
Other [4] and unspecified	–6	218	496	1,236	173	198	188	197	199
Other international organizations and unspecified areas	**969**	**1,335**	**4,018**	**9,739**	**1,304**	**1,405**	**1,278**	**1,609**	**2,116**

– Represents zero. Z Less than $500,000. [1] Includes European Atomic Energy Community, European Coal and Steel Community, European Payments Union, European Productivity Agency, North Atlantic Treaty Organization, and Organization for European Economic Cooperation. [2] United Nations Relief and Works Agency for Palestine refugees. [3] Excludes transactions after October 1986, with Commonwealth of the Northern Mariana Islands; includes transactions with Federated States of Micronesia, Republic of the Marshall Islands, and Republic of Palau. [4] Includes Andean Development Corporation, Eastern Caribbean Central Bank, Inter-American Institute of Agricultural Sciences, Organization of American States, and Pan American Health Organization.

Source: U.S. Bureau of Economic Analysis, press releases and unpublished data.

No. 1400. U.S. Foreign Economic and Military Aid Programs: 1946 to 1988

[**In millions of dollars.** For years ending **June 30** except, beginning **1977**, ending **Sept. 30.** Economic aid shown here represents total U.S. economic aid—not just aid under Foreign Assistance Act. Major components in recent years include AID, Food for Peace, Peace Corps, and paid-in subscriptions to international financial institutions, such as IBRD, and IDB. Cumulative totals for 1946–1987 are true totals net of deobligation; annual figures however, are gross unadjusted program figures. Military aid includes Military Assistance Program (MAP) grants, foreign military credit sales, service-funded programs, and excess defense articles]

Period or year and region	Total economic and military aid	Economic aid			Military aid		
		Total	Loans	Grants	Total	Loans	Grants
1946–1988, total	**343,385**	**212,480**	**55,188**	**157,292**	**130,905**	**39,719**	**91,186**
1946–1952	41,661	31,116	8,518	22,598	10,545	-	10,545
1953–1961	43,358	24,053	5,850	18,203	19,305	161	19,144
1962–1969	50,254	33,392	15,421	17,972	16,862	1,620	15,242
1970–1979	65,714	26,902	9,995	16,907	38,812	14,179	24,633
1980–1986	96,368	63,081	10,941	52,140	33,287	19,758	13,529
1980–1987	111,650	73,261	12,194	61,067	38,389	20,711	17,678
1980–1988	125,230	82,010	13,046	68,964	43,220	21,474	21,746
1970	6,568	3,676	1,389	2,288	2,892	70	2,822
1971	7,838	3,442	1,299	2,143	4,396	743	3,653
1972	9,021	3,940	1,639	2,301	5,080	550	4,530
1973	9,472	4,117	1,391	2,726	5,356	550	4,805
1974	8,510	3,906	1,150	2,756	4,604	1,396	3,208
1975	6,916	4,908	1,679	3,229	2,009	750	1,259
1976	6,412	3,878	1,759	2,119	2,535	1,442	1,093
1976, TQ [1]	2,603	1,931	840	1,091	672	494	178
1977	7,784	5,594	2,083	3,511	2,190	1,411	779
1978	9,014	6,661	2,530	4,131	2,353	1,601	752
1979	13,845	7,120	1,900	5,220	6,725	5,173	1,552
1980	9,695	7,573	1,993	5,580	2,122	1,450	672
1981	10,550	7,305	1,460	5,845	3,245	2,546	699
1982	12,324	8,129	1,454	6,675	4,195	3,084	1,111
1983	14,202	8,603	1,619	6,984	5,599	3,932	1,667
1984	15,524	9,038	1,621	7,417	6,486	4,401	2,085
1985	18,128	12,327	1,579	10,748	5,801	2,365	3,436
1986	16,739	10,900	1,330	9,570	5,839	1,980	3,859
1987	14,488	9,386	1,138	8,248	5,102	953	4,149
1988	**13,580**	**8,749**	**852**	**7,897**	**4,831**	**763**	**4,068**
Near East and South Asia	7,244	3,013	418	2,594	4,231	721	3,510
East Asia	510	328	48	281	182	28	154
Europe	165	77	-	77	88	3	85
Latin America	1,473	1,329	223	1,105	144	-	144
Africa	1,202	1,086	163	923	116	12	104
Oceania and other	28	28	-	28	-	-	-
Non-regional	2,959	2,889	-	2,889	70	-	70

- Represents zero. [1] Transition quarter, July–Sept.

Source: U.S. Agency for International Development, *U.S. Overseas Loans and Grants and Assistance from International Organizations*, annual.

No. 1401. U.S. Foreign Military Aid, by Region and Selected Countries: 1984 to 1988

[**In millions of dollars.** For years ending **Sept. 30.** Military aid data include Military Assistance Program (MAP) grants, foreign military credit sales, International Military Education and Training, and excess defense articles]

Region and country	1984	1985	1986	1987	1988
Total	**6,486**	**5,801**	**5,839**	**5,102**	**4,831**
Near East and South Asia	**4,765**	**4,248**	**4,427**	**4,299**	**4,231**
Egypt	1,367	1,177	1,246	1,302	1,302
Greece	501	501	432	344	344
Israel	1,700	1,400	1,723	1,800	1,800
Jordan	117	92	83	42	28
Lebanon	16	1	1	1	(z)
Oman	40	40	9	(z)	(z)
Pakistan	301	326	312	314	261
Turkey	718	704	619	494	494
Yemen	5	6	3	2	2
Latin America [1]	**359**	**269**	**238**	**215**	**144**
Colombia	25	1	4	5	4
Costa Rica	9	11	3	2	(z)
Dominican Rep.	6	9	5	3	1
Ecuador	7	7	5	5	1
El Salvador	197	136	122	112	82
Haiti	1	1	2	1	(z)
Honduras	77	67	61	61	41
Jamaica	4	8	8	3	(z)
Panama	14	11	8	4	-
Peru	11	9	1	(z)	(z)
East Asia	**443**	**416**	**381**	**171**	**182**
Indonesia	47	34	21	12	6
Malaysia	11	5	2	1	1
Philippines	52	42	105	103	128
South Korea	232	232	165	2	2
Thailand	101	102	88	52	46
Africa [1]	**335**	**279**	**205**	**139**	**116**
Botswana	9	9	4	2	(z)
Cameroon	5	5	(z)	1	(z)
Djibouti	2	3	2	1	1
Gabon	3	(z)	(z)	(z)	(z)
Kenya	24	22	21	12	6
Liberia	13	13	6	1	1
Morocco	70	50	36	46	53
Niger	2	5	4	2	1
Somalia	33	34	20	8	7
Sudan	47	46	17	6	1
Tunisia	112	67	66	34	28
Zaire	8	8	8	5	4
Europe	**511**	**531**	**498**	**191**	**88**
Portugal	108	128	112	83	85
Spain	403	403	385	108	2
Non-regional	**72**	**58**	**91**	**88**	**70**

- Represents zero. Z Less than $500,000. [1] Includes amounts not shown separately.

Source: U.S. Agency for International Development, *U.S. Overseas Loans and Grants and Assistance from International Organizations*, annual.

No. 1402. U.S. Foreign Aid—Commitments for Economic Assistance, by Region and Selected Countries: 1984 to 1988

[**In millions of dollars.** For years ending **Sept. 30.** Falls under economic portion of the Foreign Assistance Act. Data cover commitments for economic and technical assistance by AID. See text, section 29]

Region and country	1984	1985	1986	1987	1988
Economic assistance	**5,684**	**8,132**	**7,446**	**6,355**	**5,705**
Near East and South Asia [1]	**2,474**	**3,867**	**3,728**	**2,763**	**2,523**
Bangladesh	77	76	72	80	49
Cyprus	15	15	14	15	10
Egypt	853	1,065	1,069	820	718
Israel	910	1,950	1,898	1,200	1,200
Jordan	20	100	95	111	24
Lebanon	28	20	16	13	5
Nepal	14	18	17	16	12
Oman	15	20	20	15	13
Pakistan	225	250	263	276	385
Sri Lanka	45	35	25	26	28
Turkey	139	175	120	102	32
Yemen (Sanaa)	27	28	25	25	22
Regional	19	23	—	—	-
East Asia	**230**	**313**	**518**	**440**	**225**
Burma	12	15	10	7	6
Indonesia	75	72	66	88	42
Philippines	84	183	351	253	78
Thailand	36	36	31	27	25
East Asia Regional	23	7	59	65	74
Europe	**62**	**94**	**142**	**106**	**77**
Italy	10	2	-	(z)	-
Portugal	40	80	77	65	32
Spain	12	12	12	5	3
Latin America [1]	**912**	**1,506**	**1,126**	**1,310**	**967**
Belize	4	23	10	13	8
Boliva	52	18	38	29	38
Costa Rica	146	196	139	161	101
Dominican Rep	64	126	67	20	33
Ecuador	23	33	50	37	15
El Salvador	161	376	268	415	266
Grenada	48	11	-	-	-
Guatemala	5	76	90	154	110
Guyana	-	-	-	-	-
Haiti	26	31	47	75	31
Honduras	71	205	112	175	130
Jamaica	88	115	85	44	40
Nicaragua	-	-	-	-	-
Panama	11	74	33	12	1
Latin America [1]—Con.					
Paraguay	(z)	1	1	1	1
Peru	119	38	26	21	28
ROCAP [2]	16	107	63	58	59
Regional	23	30	30	29	74
Africa [1]	**728**	**900**	**766**	**620**	**644**
Botswana	11	10	14	6	13
Burkina	(z)	8	15	9	4
Burundi	4	4	3	2	6
Cameroon	23	24	25	31	19
Cape Verde	2	3	3	2	3
Chad	11	16	16	11	17
Congo	1	1	1	1	1
Djibouti	3	4	3	2	4
Equatorial Guinea	1	1	1	1	1
Gambia, The	4	6	5	9	4
Ghana	(z)	2	4	3	7
Guinea	2	4	13	2	18
Guinea-Bissau	2	4	2	1	1
Kenya	53	40	43	37	43
Lesotho	10	11	10	13	26
Liberia	48	60	45	27	10
Malawi	8	25	35	13	44
Mali	12	32	13	12	21
Mauritania	5	11	4	4	4
Mauritius	4	7	2	3	15
Morocco	26	38	37	28	31
Niger	26	28	24	27	35
Rwanda	8	19	7	9	5
Senegal	35	44	50	35	24
Seychelles	2	2	2	3	3
Sierra Leone	1	(z)	(z)	1	1
Somalia	51	51	45	36	10
Sudan	146	149	71	21	17
Swaziland	6	9	11	9	16
Tanzania	1	(z)	(z)	58	9
Togo	4	4	11	5	4
Tunisia	2	23	23	18	12
Uganda	9	9	15	7	25
Zaire	26	36	48	33	31
Zambia	21	42	20	17	13
Zimbabwe	41	41	13	6	13
Regional	50	96	85	52	65
Non-regional	**1,279**	**1,453**	**1,168**	**1,116**	**1,269**

- Represents zero. Z Less than $500,000. [1] Includes countries not shown separately. [2] Regional programs covering Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, and Panama.

Source: U.S. Agency for International Development, *U.S. Overseas Loans and Grants and Assistance from International Organizations,* annual; and unpublished data.

No. 1403. U.S. Exports and Imports of Merchandise: 1960 to 1988

[**In billions of dollars, except percent.** Includes silver ore and bullion; beginning 1974, includes shipments of nonmonetary gold. Data may differ from those shown in tables 1378, 1383, and 1384, due to revisions and inclusion of the Virgin Islands since 1974. For basis of dollar values, see text, section 29. See also *Historical Statistics, Colonial Times to 1970*, series U 190–195 and U 207–212]

Year	Merchandise trade balance	Exports [1]					General imports [4]				Average annual percent change [5]	
		Total [2]	Domestic				Total [3]	Petroleum	Machinery	Transport equipment	Domestic exports	General imports
			Total [3]	Agricultural	Machinery	Transport equipment						
1960	4.6	19.6	19.4	(NA)	(NA)	(NA)	15.0	(NA)	(NA)	(NA)	19.8	.1
1965	5.3	26.7	26.3	(NA)	(NA)	(NA)	21.4	(NA)	(NA)	(NA)	4.0	4.3
1970	2.7	42.7	42.0	7.2	11.4	6.5	40.0	2.8	5.3	5.9	14.1	10.8
1971	−2.0	43.5	42.9	7.7	11.6	7.9	45.6	3.3	6.0	7.9	2.1	14.0
1972	−6.4	49.2	48.4	9.4	13.2	8.3	55.6	4.3	7.8	9.6	12.8	21.9
1973	1.3	70.8	69.7	17.7	17.1	10.7	69.5	7.6	10.0	11.1	44.0	25.0
1974	−4.5	98.1	96.5	22.0	23.7	14.5	102.6	24.3	11.6	12.5	38.5	47.6
1975	9.1	107.7	106.1	21.9	28.5	17.2	98.5	24.8	12.0	12.2	9.9	−4.0
1976	−8.3	115.2	113.5	23.0	31.3	18.2	123.5	31.8	15.2	14.6	7.0	25.4
1977	−29.2	121.2	118.9	23.7	32.5	18.5	150.4	41.5	17.7	17.8	4.8	21.8
1978	−31.1	143.7	141.0	29.4	37.0	22.3	174.8	39.1	24.4	23.2	18.6	16.2
1979	−27.6	181.9	178.6	34.8	44.7	25.8	209.5	56.0	28.0	25.6	26.7	19.9
1980	−24.2	220.6	216.5	41.3	55.8	28.8	244.9	77.6	31.9	28.6	21.2	16.9
1981	−27.3	233.7	228.9	43.3	62.9	32.8	261.0	75.6	38.2	31.4	5.7	6.6
1982	−31.8	212.3	207.1	36.6	60.3	23.6	244.0	59.4	39.7	33.6	−9.5	−6.5
1983	−57.5	200.5	196.0	36.1	54.3	28.3	258.0	52.3	47.0	39.2	−5.4	5.7
1984	−107.9	217.9	212.1	37.8	60.3	29.7	325.7	55.9	68.4	50.8	8.2	26.2
1985	−132.1	213.1	208.9	29.2	59.5	34.8	345.3	49.6	75.3	62.0	−2.5	6.0
1986	−152.7	217.3	206.4	26.1	60.4	34.9	370.0	34.1	87.5	74.0	−.2	5.8
1987	−152.1	254.1	243.9	28.6	69.6	39.0	406.2	41.5	99.4	78.4	11.8	11.2
1988	−119.8	322.2	308.0	37.0	88.4	46.7	440.9	41.8	117.3	79.8	12.7	10.9

NA Not available. [1] Includes "Special Category" items and beginning 1974, includes trade of Virgin Islands with foreign countries. F.a.s. value basis. [2] Domestic and foreign exports excluding M.A.P. Grant-Aid shipments, through 1985; 1986 through 1988 include Grant-Aid shipments. [3] Includes commodity groups not shown separately. [4] 1960–1973, 1982–1988, customs value basis; 1974–1981, f.a.s. value basis. Beginning 1974, includes trade of Virgin Islands with foreign countries. [5] 1960, change from 1959; thereafter, from previous year. For explanation of average annual percent change, see Guide to Tabular Presentation.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT 990, monthly.

No. 1404. U.S. Exports and General Imports, by State of Origin and Destination: 1987 and 1988

[**In millions of dollars.** Exports, f.a.s. value basis; general imports, c.i.f. value basis]

State	Exports			General imports		
	1987	1988		1987	1988	
		Total	Rank		Total	Rank
Total	**252,866**	**322,225**	(x)	**424,082**	**459,565**	(x)
U.S.	**189,153**	**235,956**	(x)	**350,945**	**389,421**	(x)
AL	1,850	2,347	25	1,032	1,012	35
AK	1,269	1,742	30	280	340	43
AZ	2,526	2,880	21	2,609	2,764	22
AR	519	597	41	1,002	1,066	34
CA	27,467	34,678	1	69,413	77,202	1
CO	1,422	1,783	29	2,024	5,295	13
CT	2,616	3,085	20	7,738	9,248	10
DE	611	752	38	1,551	1,918	30
DC	125	139	(x)	816	739	(x)
FL	7,624	9,437	7	9,212	9,187	11
GA	3,009	3,747	18	4,623	4,837	15
HI	152	131	49	802	1,118	33
ID	423	613	40	121	144	46
IL	6,864	8,878	9	16,087	18,568	6
IN	3,185	3,773	17	3,302	3,926	17
IA	1,395	1,793	28	415	469	41
KS	1,171	1,472	31	2,058	1,927	28
KY	1,833	2,396	24	2,445	2,613	24
LA	9,775	12,658	6	1,661	1,355	32
ME	500	593	42	783	931	36
MD	1,467	1,805	27	2,277	2,575	25
MA	6,967	7,688	10	10,565	10,954	9
MI	12,968	13,907	4	28,621	33,813	4
MN	3,321	4,186	15	2,926	3,725	18
MS	973	1,114	34	3,055	2,010	29
MO	1,829	1,995	26	3,280	3,658	19
MT	239	350	44	348	319	44
NE	559	747	39	345	565	39
NV	309	223	45	1,201	769	37
NH	710	869	35	558	571	40
NJ	5,024	5,954	12	38,243	40,976	3
NM	132	164	48	55	62	48
NY	14,973	19,359	3	59,631	59,000	2
NC	4,466	5,373	14	4,705	5,303	14
ND	232	220	46	149	148	45
OH	7,572	8,900	8	9,962	12,516	8
OK	842	1,243	32	1,595	2,201	27
OR	2,269	3,307	19	1,847	2,276	26
PA	4,642	5,903	13	9,785	12,900	7
RI	383	449	43	1,238	1,355	31
SC	1,729	2,431	22	2,486	2,687	23
SD	50	78	50	44	48	49
TN	1,902	2,421	23	2,519	3,647	20
TX	19,706	26,384	2	23,910	27,324	5
UT	658	826	36	795	718	38
VT	562	796	37	809	453	42
VA	5,642	6,740	11	4,634	4,166	16
WA	10,591	13,707	5	4,997	6,694	12
WV	1,020	1,141	33	90	108	47
WI	3,077	3,966	16	2,304	3,196	21
WY	6	216	47	1	25	50
PR	1,876	2,356	(x)	3,474	3,948	(x)
VI	69	35	(x)	1,360	775	(x)
Other [1]	61,767	83,875	(x)	68,303	65,421	(x)

X Not applicable. [1] Includes unreported, not specified, special category, estimated shipments, foreign trade zone, non-United States, and exports to Canada.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT 990, monthly.

No. 1405. U.S. Domestic Exports and General Imports of Selected Commodities—Value, by Area: 1988

[**In millions of dollars.** Includes nonmonetary gold. Exports are f.a.s. (free alongside ship) transaction value basis; imports are customs value basis]

Selected commodities	Total [1]	Western Hemisphere		Western Europe			Asia			OPEC [2]
		Canada	Mexico	United Kingdom	West Germany	France	Japan	China: Taiwan	South Korea	
Domestic exports, total	**308,014**	**66,391**	**19,863**	**17,378**	**13,522**	**9,621**	**36,342**	**11,786**	**11,039**	**53,368**
Agricultural commodities	37,015	2,022	(NA)	835	1,197	(NA)	7,632	(NA)	(NA)	(NA)
Nonagricultural commodities	270,998	64,369	(NA)	16,543	12,325	(NA)	28,709	(NA)	(NA)	(NA)
Food and live animals	26,415	1,762	1,513	539	486	459	6,760	860	854	2,333
Meat and meat preparations	2,430	174	240	44	10	91	1,375	17	29	25
Grain and cereal preparation	12,281	166	648	22	15	17	2,318	603	718	1,384
Wheat and wheat flour	5,080	2	97	1	1	(Z)	4,277	128	286	473
Corn	5,191	53	397	3	6	10	1,616	463	430	257
Beverages and tobacco	4,548	64	14	80	267	22	969	180	67	303
Crude materials, excluding fuels	25,135	1,830	1,443	825	1,251	440	6,423	1,467	2,672	834
Soybeans	4,816	36	350	144	236	62	1,030	476	260	87
Logs and lumber	4,087	358	96	92	155	23	1,906	117	264	44
Metal ores and scrap	4,279	548	235	190	213	76	1,041	302	471	85
Mineral fuels and related materials	8,186	1,400	457	213	76	242	1,422	432	286	206
Bituminous coal	3,960	775	12	164	31	189	598	187	159	31
Chemicals and related products	32,300	3,800	1,821	1,350	1,372	860	4,002	1,544	1,388	1,548
Manufactured goods	22,845	5,703	2,223	1,234	837	379	2,787	489	742	4,015
Textile yarn, fabric, articles	3,650	665	340	249	114	66	244	65	77	319
Iron and steel mill products	2,017	583	339	63	41	25	137	50	52	77
Machinery	88,432	14,838	7,451	7,509	5,094	4,388	6,918	2,836	2,807	4,101
Power generating	12,818	3,018	826	1,089	522	1,363	720	239	165	154
Agricultural [3]	1,956	611	70	101	58	170	97	12	13	1,033
General industrial	885	2,574	986	619	456	318	601	302	318	460
Office machinery and computers	23,128	2,774	681	3,030	2,224	1,333	2,424	459	506	307
Telecommunications [4]	6,544	753	999	504	255	126	583	353	213	435
Electrical [5]	21,602	3,233	3,102	1,338	1,026	735	1,684	1,139	1,040	1,968
Transport equipment	46,703	17,958	2,155	2,467	1,802	1,171	2,912	738	924	1,452
Automobile, motor vehicles [6]	25,178	16,393	1,806	356	676	373	660	543	128	492
Aircraft and parts	20,004	1,295	129	2,051	1,063	744	2,152	120	764	281
Professional, scientific, and controlling instruments	8,889	1,089	471	790	683	528	1,282	222	257	664
General imports, total	**441,282**	**80,921**	**23,277**	**18,042**	**26,503**	**12,217**	**89,802**	**24,804**	**20,189**	**23,066**
Agricultural commodities	21,208	2,448	(NA)	185	530	(NA)	232	(NA)	(NA)	(NA)
Nonagricultural commodities	420,075	78,474	(NA)	17,856	25,972	(NA)	89,571	(NA)	(NA)	(NA)
Food and live animals	20,107	3,136	1,927	134	272	140	330	417	261	1,170
Meat and meat preparations	2,738	516	(Z)	1	5	7	(Z)	1	(Z)	1
Fish, including shellfish	5,327	1,162	382	25	5	13	173	287	190	508
Vegetables and fruit	4,662	211	849	14	87	19	40	80	27	206
Coffee	2,288	2	(Z)	(Z)	28	(Z)	(Z)	(Z)	(Z)	132
Beverages and tobacco	4,139	534	265	603	191	876	44	5	15	10
Crude materials, excluding fuels	13,398	7,072	369	164	148	115	185	53	36	798
Paper base stocks	2,663	2,278	1	(Z)	1	1	(Z)	-	-	-
Wood	3,179	2,978	26	(Z)	2	(Z)	(Z)	2	(Z)	30
Metal ores and scrap	3,264	1,125	164	50	36	29	30	8	(Z)	139
Mineral fuels and related materials	41,088	6,754	3,314	1,730	69	171	107	6	14	19,152
Crude petroleum	25,844	2,997	2,862	1,344	13	6	11	-	-	13,882
Petroleum products	12,331	1,404	363	381	51	158	17	5	14	5,022
Natural gas	2,577	2,233	88	2	(Z)	1	1	1	(Z)	243
Chemicals and related products	19,876	3,782	724	2,088	2,579	1,574	2,187	287	176	170
Manufactured goods	61,636	15,405	2,466	2,305	3,254	1,842	7,309	3,622	2,336	993
Paper, paperboard	7,510	5,651	358	115	264	101	157	70	67	20
Iron and steel	10,274	1,555	286	355	921	664	2,666	162	606	191
Nonferrous metals	10,302	4,224	605	368	420	187	415	33	31	270
Machinery	117,281	9,884	8,638	5,110	8,980	3,089	40,689	8,567	6,421	25
Power generating	12,788	2,635	1,334	1,111	1,218	1,244	3,192	94	98	(Z)
General industrial	12,847	1,410	557	904	1,846	442	3,390	798	438	5
Telecommunications [4]	22,278	807	2,444	171	151	142	10,274	2,209	2,210	5
Electrical [5]	31,009	2,144	3,479	866	1,884	528	8,743	2,703	2,372	2
Office machinery and data processing equipment	22,601	1,250	700	756	491	206	10,311	2,267	1,192	11
Transport equipment	79,772	26,421	2,290	2,509	7,881	2,376	29,542	749	2,686	32
Automobiles, buses, trucks	55,328	17,927	1,273	962	6,527	175	23,351	24	2,494	(Z)
New passenger cars	47,005	13,255	1,271	941	6,442	172	19,878	14	2,486	(Z)
Motor vehicle parts	16,019	6,570	918	423	1,050	640	4,783	232	98	24
Clothing	21,518	299	514	242	104	195	300	2,855	3,180	410
Footwear	8,041	36	120	31	19	66	5	2,330	2,303	24

- Represents zero. NA Not available. Z Less than $500,000. [1] Includes countries and regions not shown separately. [2] Organization of Petroleum Exporting Countries. See table 960 for list of countries. [3] Agricultural machinery and parts and tractors, excluding tractor parts. [4] Includes sound recording and reproducing apparatus and equipment. [5] Electrical machinery, apparatus, appliances, and parts. [6] Includes motor vehicle and tractor parts, except tires, engines, and electrical parts.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, Report FT 990, December issue; *U.S. General Imports/World Area and Country of Origin by Schedule A Commodity Groupings*, Report FT 155; and *U.S. Exports/World Area and Country of Destination by Schedule E Commodity Groupings*, Report FT 455.

No. 1406. U.S. Exports, Imports, and Merchandise Trade Balance, by Continent, Area, and Country: 1980 to 1988

[In millions of dollars, except percent. Includes silver ore and bullion. Area, continent, and individual country totals include exports of special category commodities, if any. Data include nonmonetary gold; beginning 1985, data include trade of Virgin Islands with foreign countries, see footnote 2 for exception. Minus sign (–) denotes an excess of imports over exports. See *Historical Statistics, Colonial Times to 1970*, series U 317–352, for selected countries]

Continent, area, and country	Exports, domestic and foreign					General imports [1]					Merchandise trade balance				
	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988
Total [2]	**220,783**	**213,146**	**217,304**	**252,866**	**320,385**	**244,871**	**345,276**	**369,961**	**405,901**	**441,282**	**–24,088**	**–132,130**	**–152,657**	**–153,032**	**–120,897**
Developed countries [3]	130,848	134,018	141,447	165,375	204,575	125,306	223,314	245,967	256,561	277,484	+5,542	–89,296	–104,520	–91,186	–72,909
Percent of total	59.3	62.9	65.1	65.1	63.8	51.2	64.7	66.5	63.2	62.9	(x)	(x)	(x)	(x)	(x)
Developing countries [3]	81,125	71,673	70,639	81,630	106,898	117,025	116,161	117,221	141,123	153,127	–35,900	–44,488	–46,582	–59,430	–46,229
Communist areas, total	7,616	7,091	5,125	5,721	8,704	2,496	5,801	6,773	8,218	10,671	+5,120	+1,290	–1,648	–2,497	–1,967
Unidentified countries	1,116	365	94	77	208	44	(x)	(x)	(x)	(x)	+1,072	+365	+94	+77	+208
Africa	9,060	7,388	5,978	6,283	7,431	34,410	11,964	10,348	11,939	10,863	–25,350	–4,576	–4,370	–5,656	–3,432
Asia	60,168	60,745	64,532	73,268	99,705	80,299	131,884	153,869	174,452	190,729	–20,131	–71,139	–89,337	–101,184	–91,024
Oceania	4,876	6,399	6,659	6,526	8,242	3,392	3,819	3,717	4,136	4,824	+1,484	+2,580	+2,942	+2,390	+3,418
Europe	71,372	59,978	63,631	71,917	91,645	48,039	81,692	91,826	97,419	102,673	+23,333	–21,714	–28,195	–25,502	–11,028
North America	56,737	67,249	64,461	81,758	98,008	64,287	94,985	91,724	97,591	110,410	–7,550	–27,736	–27,263	–15,833	–12,402
South America	17,377	11,022	11,950	13,036	15,147	14,400	20,932	18,477	20,363	21,783	+2,977	–9,910	–6,527	–7,327	–6,636
Western Hemisphere	**74,114**	**78,271**	**76,411**	**94,795**	**113,155**	**78,687**	**115,916**	**110,201**	**117,954**	**132,193**	**–4,573**	**–37,645**	**–33,790**	**–23,159**	**–19,038**
Canada	35,395	47,251	45,333	59,814	69,233	41,459	69,006	68,253	71,085	80,921	–6,064	–21,755	–22,920	–11,271	–11,688
20 Latin American countries	36,030	27,850	27,968	31,574	40,077	29,952	43,448	39,541	44,371	48,914	+6,078	–15,598	–11,573	–12,797	–8,837
Other Western Hemisphere	2,688	3,170	3,110	3,407	3,845	7,277	3,462	2,408	2,498	2,358	–4,589	–292	+702	+909	+1,487
Central American Common Market	1,951	1,622	1,767	1,873	2,254	1,849	1,722	2,061	1,939	1,935	+102	–100	–294	–66	+319
Costa Rica	498	422	483	582	696	356	501	641	670	775	+142	–79	–158	–88	–79
El Salvador	272	445	518	390	483	427	396	385	284	284	–155	+49	+133	+106	+199
Guatemala	552	405	400	480	591	435	409	601	495	433	+117	–4	–201	–15	+158
Honduras	379	308	363	418	478	419	375	433	489	443	–40	–67	–70	–71	+35
Nicaragua	250	42	3	4	6	211	41	1	1	1	+39	+1	+2	+3	+5
Latin American Free Trade Association	32,274	24,414	24,180	27,356	35,346	26,735	39,943	35,655	40,519	44,912	+5,539	–15,529	–11,475	–13,163	–9,566
Argentina	2,625	721	944	1,090	1,056	741	1,069	856	1,080	1,438	+1,884	–348	+88	+10	–382
Bolivia	172	120	112	140	148	182	99	124	111	117	–10	+21	–12	+29	+31
Brazil	4,343	3,140	3,885	4,040	4,289	3,715	7,526	6,813	7,865	9,324	+628	–4,386	–2,928	–3,825	–5,035
Chile	1,353	682	823	796	1,065	515	745	820	981	1,162	+838	–63	+3	–185	–97
Colombia	1,736	1,468	1,319	1,412	1,758	1,241	1,331	1,874	2,232	2,167	+495	+137	–560	–820	–409
Ecuador	864	591	601	621	684	876	1,837	1,465	1,266	1,231	–12	–1,246	–864	–645	–547
Mexico	15,145	13,635	12,392	14,582	20,643	12,580	19,132	17,302	20,271	23,277	+2,565	–5,497	–4,910	–5,689	–2,634
Paraguay	109	99	171	183	194	81	24	30	22	37	+28	+75	+141	+161	+157
Peru	1,171	496	693	814	798	1,386	1,087	803	769	656	–215	–591	–110	+45	+142
Uruguay	183	64	100	92	100	97	557	472	344	275	+86	–493	–372	–252	–175
Venezuela	4,573	3,399	3,141	3,586	4,611	5,321	6,537	5,097	5,579	5,228	–748	–3,138	–1,956	–1,993	–617
Other Latin America	1,805	1,814	2,021	2,345	2,477	1,368	1,782	1,826	1,913	2,067	+437	+32	+195	+432	+410
Cuba	(z)	1	2	1	3	(z)	(z)	(z)	–	–	(z)	+1	+2	+1	+3
Dominican Republic	795	742	921	1,142	1,362	787	982	1,085	1,163	1,417	+8	–240	–164	–21	–55
Haiti	311	396	387	459	479	252	390	375	395	384	+59	+6	+12	+64	+95
Panama	699	675	711	743	633	330	410	366	356	266	+369	+265	+345	+387	+367

Other Western Hemisphere	**2,688**	**3,170**	**3,110**	**3,407**	**3,845**	**7,277**	**3,462**	**2,408**	**2,498**	**2,358**	**−4,589**	**−292**	**+702**	**+909**	**+1,487**
Bahamas, The	396	786	761	782	741	1,469	626	442	416	411	−1,073	+160	+319	+366	+330
Barbados	136	173	147	132	159	96	202	108	59	51	+40	−29	+39	+73	+108
Belize	58	56	59	72	103	60	47	51	42	51	−2	+9	+8	+30	+52
Bermuda	136	258	236	261	286	13	7	6	6	7	+123	+251	+230	+255	+279
Guadeloupe	67	28	39	44	30	7	3	3	2	1	+60	+25	+36	+42	+29
Greenland	3	6	2	3	4	14	3	1	1	1	−11	−3	+1	−2	−3
Guyana	96	43	47	60	68	120	47	64	59	51	−24	−4	−17	−1	+17
Jamaica	305	404	457	601	758	383	273	299	395	444	−78	−131	+158	+206	+314
Anguilla	152	199	225	238	14	36	95	84	87	1	+116	−104	+141	+151	+13
Netherlands Antilles	448	427	398	507	432	2,564	808	471	521	411	−2,116	−381	−73	−14	+21
Suriname	136	86	84	72	93	109	60	39	46	88	+27	+26	+45	+26	+5
Trinidad and Tobago	680	504	532	361	328	2,383	1,258	793	815	719	−1,703	−754	−261	−454	−391
Other	74	200	125	274	829	23	33	47	49	122	+51	+167	+78	+225	+707
Western Europe	**67,512**	**56,763**	**61,642**	**69,718**	**87,995**	**46,602**	**79,756**	**89,825**	**95,496**	**100,515**	**+20,910**	**−22,993**	**−28,183**	**−25,778**	**−12,520**
OECD [4]	66,654	56,084	61,003	69,091	87,236	46,137	79,165	89,130	94,636	99,558	+20,517	−23,081	−28,127	−25,545	−12,322
European Economic Community [5]	58,891	48,996	53,155	60,575	75,926	37,882	67,822	75,736	81,188	84,991	+20,809	−18,826	−22,581	−20,613	−9,065
Belgium and Luxembourg	6,661	4,918	5,399	6,189	7,405	1,914	3,387	4,006	4,171	4,518	+4,747	+1,531	+1,393	+2,018	+2,887
Denmark	863	706	758	893	974	727	1,665	1,757	1,779	1,666	+136	−959	−999	−886	−692
France	7,485	6,096	7,216	7,943	10,133	5,265	9,482	10,129	10,730	12,228	+2,220	−3,386	−2,913	−2,787	−2,095
Greece [5]	922	498	430	402	649	292	395	394	480	529	+630	+103	+36	−78	+120
Ireland	836	1,342	1,434	1,810	2,182	413	901	1,003	1,112	1,373	+423	+441	+431	+698	+809
Italy	5,511	4,625	4,838	5,530	6,785	4,325	9,674	10,607	11,040	11,611	+1,186	−5,049	−5,769	−5,510	−4,826
Netherlands	8,669	7,269	7,848	8,217	10,095	1,913	4,081	4,066	3,964	4,587	+6,756	+3,188	+3,782	+4,253	+5,508
Portugal	911	695	638	581	752	278	546	552	664	691	+633	+149	+86	−83	+61
Spain	3,179	2,524	2,615	3,148	4,217	1,220	2,515	2,702	2,838	3,205	+1,959	+9	−87	+310	+1,012
United Kingdom	12,694	11,273	11,418	14,114	18,404	9,842	14,937	15,396	17,341	18,042	+2,852	−3,664	−3,978	−3,227	+362
West Germany	10,960	9,050	10,561	11,748	14,331	11,693	20,239	25,124	27,069	26,503	−733	−11,189	−14,563	−15,321	−12,172
Other OECD [4]	7,962	7,091	7,850	8,516	11,311	8,255	11,343	13,395	13,447	14,567	−293	−4,252	−5,545	−4,931	−3,256
Austria	447	441	464	549	748	389	834	864	929	1,085	+58	−393	−400	−380	−337
Finland	505	438	381	515	763	439	895	908	999	1,206	+66	−457	−527	−484	−443
Iceland	79	38	60	84	98	200	248	238	286	190	−121	−210	−178	−202	−92
Norway	843	666	937	842	933	2,632	1,164	1,079	1,404	1,452	−1,789	−498	−142	−562	−519
Sweden	1,767	1,925	1,871	1,894	2,705	1,617	4,124	4,420	4,758	4,995	+150	−2,199	−2,549	−2,864	−2,290
Switzerland	3,761	2,288	2,977	3,151	4,221	2,603	3,476	5,253	4,249	4,657	+978	−1,188	−2,276	−1,098	−436
Turkey	540	1,295	1,160	1,483	1,843	175	602	633	821	983	+365	+693	+527	+662	+860
Other Western Europe	**858**	**679**	**639**	**627**	**759**	**464**	**591**	**695**	**861**	**957**	**+394**	**+88**	**−56**	**−234**	**−198**
Yugoslavia	756	595	528	461	534	446	542	646	797	847	+310	+53	−118	−336	−313
Other	102	84	111	166	225	18	49	49	64	110	+84	+35	+62	+102	+115

See footnotes at end of table.

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No. 1406. U.S. Exports, Imports, and Merchandise Trade Balance, by Continent, Area, and Country: 1980 to 1988—Continued

[In millions of dollars, except percent. See headnote, p. 806]

Continent, area, and country	Exports, domestic and foreign					General imports [1]					Merchandise trade balance				
	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988
Communist areas in Europe	**3,860**	**3,215**	**1,989**	**2,200**	**3,650**	**1,437**	**1,936**	**2,001**	**1,923**	**2,158**	**+2,423**	**+1,279**	**−12**	**+277**	**+1,492**
Bulgaria	161	104	97	89	127	25	36	57	42	27	+136	+68	+40	+47	+100
Czechoslovakia	185	63	72	47	55	69	76	85	78	88	+116	−13	−13	−31	−33
East Germany	479	73	68	54	109	44	92	87	85	110	+435	−19	−19	−31	−1
Hungary	80	94	98	95	78	107	218	225	279	294	−27	−124	−127	−184	−216
Poland	714	238	151	239	304	416	220	233	296	378	+298	+18	−82	−57	−74
Romania	722	208	251	193	202	312	882	754	715	681	+410	−674	−503	−522	−479
Soviet Union	1,513	2,423	1,248	1,480	2,768	454	409	558	425	578	+1,059	+2,014	+690	+1,055	+2,190
Other	7	12	4	3	7	10	3	2	3	2	−3	+9	+2	-	+5
Asia	**60,168**	**60,745**	**64,532**	**73,268**	**99,705**	**80,299**	**131,884**	**153,869**	**174,452**	**190,729**	**−20,131**	**−71,139**	**−89,337**	**−101,184**	**−91,024**
Japan	**20,790**	**22,631**	**26,882**	**28,249**	**37,732**	**30,714**	**68,783**	**81,911**	**84,575**	**89,802**	**−9,924**	**−46,152**	**−55,029**	**−56,326**	**−52,070**
Communist areas	**3,756**	**3,876**	**3,136**	**3,522**	**5,054**	**1,059**	**3,865**	**4,772**	**6,295**	**8,514**	**+2,697**	**+11**	**−1,636**	**−2,773**	**−3,460**
Near East Asia	**11,900**	**9,709**	**8,415**	**9,502**	**10,857**	**18,672**	**6,267**	**7,890**	**10,811**	**11,511**	**−6,772**	**+3,442**	**+525**	**−1,309**	**−654**
Bahrain	197	107	195	205	281	16	84	77	63	99	+181	+23	+118	+142	+182
Iran	23	74	34	54	73	458	725	569	1,868	9	−435	−651	−535	−1,614	+64
Iraq	724	427	528	683	1,156	460	474	440	495	1,488	+264	−47	+88	+188	−332
Israel	2,045	2,580	2,239	3,130	3,248	950	2,123	2,418	2,639	2,978	+1,095	+457	−179	+491	+270
Jordan	407	377	332	365	373	3	14	10	11	12	+404	+363	+322	+354	+361
Kuwait	886	551	657	505	690	494	184	267	522	464	+392	+367	+390	−17	+226
Lebanon	303	141	106	97	89	33	19	30	33	40	+270	+122	+76	+64	+49
Saudi Arabia	5,768	4,474	3,449	3,373	3,799	12,648	1,907	3,612	4,433	5,594	−6,880	+2,567	−163	−1,060	−1,795
Syria	239	106	59	93	89	26	3	8	59	37	+213	+103	+51	+34	+52
Other	1,307	872	816	997	1,059	3,584	734	459	888	790	−2,277	+138	+357	+109	+269
East and South Asia	**23,722**	**24,530**	**26,099**	**31,995**	**46,061**	**29,854**	**52,969**	**59,296**	**72,772**	**80,903**	**−6,132**	**−28,439**	**−33,197**	**−40,777**	**−34,842**
Afghanistan	11	3	8	8	6	6	7	5	6	5	+5	−4	−3	+2	+1
Burma	29	10	16	8	11	9	14	14	12	12	+20	−4	+2	−4	−1
China: Taiwan	4,337	4,700	5,524	7,413	12,130	6,854	16,396	19,791	24,622	24,804	−2,517	−11,696	−14,267	−17,209	−12,674
Hong Kong	2,686	2,786	3,030	3,983	5,691	4,739	8,396	8,891	9,854	10,243	−2,053	−5,610	−5,861	−5,871	−4,552
India	1,689	1,642	1,536	1,463	2,498	1,098	2,295	2,283	2,529	2,952	+591	−653	−747	−1,066	−454
Indonesia	1,545	795	946	767	1,056	5,217	4,569	3,312	3,394	3,188	−3,672	−3,774	−2,366	−2,627	−2,132
Kampuchea	26	-	-	-	-	(z)	-	-	-	-	+26	-	-	-	-
Laos	(z)	(z)	(z)	(z)	1	(z)	(z)	(z)	1	3	(z)	(z)	(z)	−1	−2
Malaysia	1,337	1,539	1,730	1,897	2,139	2,577	2,300	2,421	2,921	3,711	−1,240	−761	−691	−1,024	−1,572
Pakistan	642	1,042	830	733	1,093	128	274	325	405	461	+514	+768	+505	+328	+632

Philippines	1,999	1,379	1,363	1,599	1,880	1,731	2,145	1,972	2,264	2,682	+268	−766	−609	−665	−802
Singapore	3,033	3,476	3,380	4,053	4,053	1,921	4,260	4,725	6,201	7,996	+1,112	−784	−1,345	−2,148	−3,943
South Korea	4,685	5,956	6,355	8,099	11,290	4,147	10,013	12,729	16,987	20,189	+538	−4,057	−6,374	−8,888	−8,899
Sri Lanka	62	73	66	77	124	126	282	337	417	424	−64	−209	−271	−340	−300
Thailand	1,263	849	936	1,544	1,964	816	1,428	1,748	2,220	3,218	+447	−579	−812	−676	−1,254
Other	378	280	379	351	2,125	484	590	743	939	1,015	−106	−310	−364	−588	+1,110
Oceania	**4,876**	**6,399**	**6,659**	**6,526**	**8,242**	**3,392**	**3,819**	**3,717**	**4,136**	**4,824**	**+1,484**	**+2,580**	**+2,942**	**+2,390**	**+3,418**
Australia	4,093	5,441	5,551	5,495	6,981	2,509	2,837	2,632	3,007	3,511	+1,584	+2,604	+2,919	+2,488	+3,470
New Zealand	599	727	881	819	942	703	860	982	1,052	1,166	−104	−133	−101	−233	−224
Other Oceania	184	231	227	212	319	180	122	103	77	147	+4	+109	+124	+135	+172
Africa	**9,060**	**7,388**	**5,978**	**6,283**	**7,431**	**34,410**	**11,964**	**10,348**	**11,939**	**10,863**	**−25,350**	**−4,576**	**−4,370**	**−5,656**	**−3,432**
Algeria	542	430	453	426	733	6,577	2,333	1,831	1,999	1,813	−6,035	−1,903	−1,378	−1,573	−1,080
Angola	111	137	86	95	101	742	1,054	678	1,294	1,216	−631	−917	−592	−1,199	−1,115
Cameroon	93	69	48	47	32	605	324	305	414	219	−512	−255	−257	−367	−187
Central African Republic	1	1	1	2	3	9	1	4	5	3	−8	(z)	−3	−3	-
Egypt	1,874	2,323	1,982	2,210	2,340	539	79	112	465	221	+1,335	+2,244	+1,870	+1,745	+2,119
Ethiopia	72	203	104	136	181	87	43	73	74	54	−15	+160	+31	+62	+127
Gabon	48	91	25	53	56	343	502	207	358	175	−295	−411	−182	−305	−119
Ghana	127	54	84	115	117	206	90	191	249	202	−79	−36	−107	−134	−85
Ivory Coast	185	70	60	82	75	288	525	425	373	290	−103	−455	−365	−291	−215
Kenya	141	97	70	95	92	54	92	141	79	64	+87	+5	−71	+16	+28
Liberia	113	73	65	70	68	128	83	82	88	108	−15	−10	−17	−18	−40
Libya	509	311	46	(z)	(z)	8,595	44	2	(z)	(z)	−8,086	+267	+44	(z)	(z)
Madagascar	7	33	25	18	12	91	53	63	71	49	−84	−20	−38	−53	−37
Mauritania	20	26	16	8	17	(z)	(z)	2	18	16	+19	+26	+14	−10	+1
Morocco	344	279	487	383	428	35	39	43	50	92	+309	+240	+444	+333	+336
Mozambique	69	56	23	50	57	105	16	19	28	21	−36	+40	+4	+22	+36
Nigeria	1,150	676	409	295	356	11,105	3,002	2,530	3,573	3,298	−9,955	−2,326	−2,121	−3,278	−2,942
South Africa	2,463	1,205	1,159	1,281	1,690	3,321	2,071	2,365	1,346	1,530	−858	−866	−1,206	−65	+160
Sudan	142	243	90	152	109	17	9	22	22	23	+125	+234	+68	+130	+86
Tanzania	62	46	38	35	28	32	10	12	14	18	+30	+36	+26	+23	+10
Tunisia	173	256	163	119	185	60	13	11	69	43	+113	+243	+152	+50	+142
Uganda	12	5	4	19	16	126	113	133	81	58	−114	−108	−129	−62	−42
Zaire	155	105	105	104	125	418	401	221	308	365	−263	−296	−116	−204	−240
Zambia	98	60	35	48	26	200	58	65	50	20	−102	+2	−30	−2	+6
Other	549	539	400	437	582	727	1,009	811	911	965	−178	−470	−411	−474	−383

– Represents zero. Z Less than $500,000. [1] Imports: 1980, f.a.s. basis; other years, customs value basis. Exports are f.a.s. value. [2] Includes revisions not carried to area values; therefore, area values will not add to total. [3] Developed countries include Canada, Western Europe, Japan, Australia, New Zealand, and South Africa; developing countries include rest of the world excluding Communist areas in Europe and Asia. Assignment of countries generally follows that made by United Nations. (See table 1438.) [4] OECD=Organization of Economic Cooperation and Development. [5] As of 1981, Greece, became a member of EEC; as of 1986 Spain and Portugal became members of EEC. For consistency, data for all years are shown on same basis.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT 990, monthly.

No. 1407. U.S. Exports and Imports for Consumption of Merchandise, by Coastal Area and Customs District: 1980 to 1988

[**In billions of dollars.** Exports are f.a.s. (free alongside ship) value all years; imports are on customs value basis for years 1983 to present; f.a.s. value basis for 1980. See *Historical Statistics, Colonial Times to 1970*, series U 264-273, for related data]

U.S. COASTAL AREA AND CUSTOMS DISTRICT	EXPORTS							IMPORTS FOR CONSUMPTION						
	1980	1983	1984	1985	1986	1987	1988	1980	1983	1984	1985	1986	1987	1988
Total [1]	**220.8**	**200.5**	**217.9**	**213.1**	**217.3**	**252.9**	**320.4**	**244.0**	**258.0**	**323.0**	**343.6**	**368.7**	**402.1**	**437.1**
North Atlantic area	**68.8**	**50.1**	**49.7**	**46.5**	**51.8**	**53.4**	**69.2**	**79.8**	**82.2**	**104.4**	**107.1**	**115.6**	**123.0**	**126.3**
Portland, ME	4.3	.7	.7	.6	.6	.8	1.0	1.6	1.8	2.3	2.3	2.7	3.3	3.4
St. Albans, VT	.7	.7	1.1	1.1	1.3	1.6	1.9	1.6	2.0	2.5	2.7	2.7	3.2	3.6
Boston, MA	.8	2.6	2.8	3.0	3.8	4.4	5.7	5.0	6.4	8.1	8.2	9.2	12.0	12.6
Providence, RI	2.7	.2	.1	.1	(z)	(z)	(z)	1.5	2.2	2.6	2.3	2.7	1.6	1.5
New York, NY	38.9	29.0	31.3	28.5	33.4	32.8	42.4	43.4	46.5	59.2	60.5	67.0	68.4	69.7
Philadelphia, PA	3.2	2.3	2.1	2.0	1.9	2.4	3.4	15.6	13.4	15.8	15.8	13.7	15.6	15.6
Baltimore, MD	9.0	7.1	5.8	5.5	4.9	5.4	6.8	6.0	5.5	8.5	8.8	11.0	11.8	12.1
Norfolk, VA [2]	8.9	7.1	5.4	5.4	5.3	5.5	7.3	4.7	4.1	5.0	6.0	5.8	6.3	7.0
Washington, DC	.3	.4	.4	.5	(z)	.5	.7	.4	.3	.4	.5	.8	.7	.8
South Atlantic area	**14.7**	**13.7**	**15.6**	**15.0**	**16.6**	**18.7**	**24.2**	**15.5**	**16.5**	**20.5**	**20.4**	**24.0**	**26.6**	**28.4**
Wilmington, NC	1.3	1.3	1.3	1.3	1.2	1.1	1.4	1.1	1.3	1.7	1.9	2.4	2.5	2.9
Charleston, SC [2]	3.1	2.5	2.9	2.9	3.0	3.6	5.0	1.8	2.3	3.0	3.3	4.9	5.9	6.1
Savannah, GA	2.4	2.9	3.7	3.4	3.8	4.4	6.0	2.2	3.5	4.7	5.1	6.4	7.4	8.3
San Juan, PR	.9	1.3	1.4	1.2	1.3	1.4	1.7	3.7	3.5	4.3	4.0	3.8	3.9	4.1
Virgin Islands of the U.S.	.1	.2	.2	.1	(z)	.1	.1	4.1	2.6	2.5	1.7	1.2	1.7	1.0
Miami, FL	6.9	5.5	6.2	6.1	7.2	8.1	9.9	2.6	3.3	4.3	4.4	5.2	5.7	6.0
Gulf area	**51.1**	**42.3**	**43.4**	**38.4**	**34.9**	**39.0**	**49.7**	**62.3**	**46.3**	**52.4**	**50.5**	**48.1**	**53.1**	**56.3**
Tampa, FL	2.8	2.1	2.8	2.8	2.1	2.7	3.6	3.7	4.6	5.7	6.6	7.6	7.4	7.3
Mobile, AL [2]	2.6	1.4	1.2	1.1	1.3	1.4	1.4	3.0	3.2	3.4	2.8	2.3	2.9	2.8
New Orleans, LA	19.5	18.2	16.8	13.9	13.1	14.0	16.9	22.5	13.0	14.3	14.7	14.8	15.9	17.1
Port Arthur, TX	2.0	1.5	1.7	.8	.8	.9	1.1	9.4	5.0	5.2	2.7	1.3	1.9	1.8
Laredo, TX	8.3	4.4	6.2	7.2	6.3	7.5	10.6	2.7	4.0	4.6	4.8	5.7	6.8	7.9
St. Louis, MO	.2	.1	.1	.1	.2	.2	.2	.9	.8	1.4	1.6	2.0	2.3	2.7
Houston/Galveston, TX	15.7	14.6	14.7	12.5	11.2	12.5	15.9	20.1	15.7	17.8	17.3	14.5	16.0	16.7
Pacific area	**43.8**	**44.3**	**47.8**	**49.6**	**52.4**	**61.1**	**82.8**	**43.1**	**52.7**	**66.9**	**80.4**	**91.4**	**101.6**	**111.8**
San Diego, CA	1.4	.9	1.4	1.6	1.5	1.7	2.5	1.0	1.2	1.6	1.8	2.2	2.7	3.4
Los Angeles, CA	14.8	17.1	18.4	19.5	19.9	23.7	32.0	20.0	25.4	31.1	44.1	48.5	53.6	58.0
San Francisco, CA	10.6	11.3	12.4	11.3	11.4	14.3	19.1	8.3	11.2	16.2	15.5	19.1	21.8	25.1
Portland, OR	3.8	3.7	4.1	3.5	3.2	3.7	5.6	2.6	2.8	3.6	3.8	4.7	4.6	5.8
Seattle, WA	12.0	10.0	10.1	12.1	14.9	15.7	20.9	9.2	9.9	12.7	13.4	15.3	17.2	17.8
Anchorage, AK	1.0	1.1	1.1	1.3	1.3	1.7	2.2	.2	.4	.3	.2	.3	.1	.2
Honolulu, HI	.2	.2	.3	.4	.2	.4	.6	1.8	1.8	1.4	1.6	1.4	1.6	1.6
Great Lakes area	**35.0**	**38.4**	**46.9**	**46.5**	**46.1**	**54.8**	**62.6**	**37.0**	**49.3**	**68.0**	**72.3**	**75.7**	**81.9**	**95.9**
Ogdensburg, NY	3.8	3.7	4.5	4.1	4.4	4.7	5.3	4.6	5.6	7.1	6.8	7.5	7.9	8.5
Buffalo, NY	6.3	7.0	8.5	8.4	8.2	9.5	10.5	7.4	9.2	13.7	14.7	15.5	15.4	18.1
Pembina, ND	2.3	2.0	2.3	2.2	2.3	2.5	2.8	3.0	2.5	3.4	3.2	2.6	2.7	3.3
Minneapolis, MN	.1	.2	.2	.2	.2	.3	.5	.3	.5	.8	1.0	1.2	1.4	1.6
Duluth, MN	1.5	1.0	1.6	.9	.8	.7	1.2	3.0	2.9	3.3	3.0	2.4	2.9	3.2
Milwaukee, WI	.4	.2	.2	.2	.1	.1	.1	.4	.8	.9	1.0	.9	.9	1.1
Detroit, MI	14.6	17.9	22.6	22.8	21.3	26.6	30.1	12.7	19.9	25.9	27.4	27.9	29.7	35.7
Chicago, IL	4.2	4.7	5.1	5.4	6.1	6.9	8.7	4.1	3.8	10.1	11.4	12.3	13.8	16.1
Cleveland, OH	1.8	1.7	1.9	2.1	2.7	3.4	3.4	1.5	2.1	2.8	3.8	5.4	7.3	8.3
Other statistical areas [1]	**7.4**	**11.8**	**14.5**	**17.1**	**15.5**	**25.9**	**31.8**	**6.3**	**11.0**	**10.8**	**12.7**	**13.8**	**15.8**	**18.5**
El Paso, TX	1.8	1.4	1.8	2.1	2.3	2.6	3.8	1.4	1.9	2.2	2.5	3.0	3.4	4.5
Nogales, AZ	.8	.6	.9	.8	.8	1.0	1.3	1.2	1.7	1.9	2.0	2.4	3.1	3.2
Great Falls, MT	1.8	1.2	1.4	1.5	1.1	1.2	1.6	3.2	3.8	3.9	4.0	3.3	3.7	4.0
Dallas/Fort Worth, TX	.5	.6	.8	1.0	1.2	1.5	2.1	1.2	1.5	2.2	2.4	3.2	3.3	4.1
Vessel—own power or afloat	.3	.2	.1	.1	.1	(z)	.2	–	–	–	–	–	–	–
Estimated shipments	2.1	1.6	2.1	3.3	3.2	5.6	6.6	.3	.5	.6	1.8	2.0	2.3	2.6

– Represents zero. Z Less than $50 million. [1] Totals shown for exports reflect the value of estimated parcel post and Special Category shipments, and beginning 1987, adjustments for undocumented exports to Canada which are not distributed by coastal area/customs district. Beginning 1984, the value of bituminous coal exported through Norfolk, VA; Charleston, SC; and Mobile, AL is reflected in the total but not distributed by district. Total bituminous coal exports for the 3 customs districts were valued at $2.3 billion in 1984, $2.6 billion in 1985, $2.3 billion in 1986, $1.9 billion in 1987, and $2.4 billion in 1988. [2] Beginning 1984, excludes exports of bituminous coal.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT 990, monthly.

No. 1408. Export and Import Unit Value Indexes—Selected Countries: 1984 to 1988

[**Indexes in U.S. dollars, 1985 = 100.** A unit value is an implicit price derived from value and quantity data]

COUNTRY	EXPORT UNIT VALUE					IMPORT UNIT VALUE				
	1984	1985	1986	1987	1988	1984	1985	1986	1987	1988
United States	**101**	**100**	**101**	**103**	**110**	**103**	**100**	**97**	**104**	**109**
Australia	112	100	97	106	132	106	100	105	116	(NA)
Austria	102	100	133	156	(NA)	100	100	125	144	(NA)
Belgium-Luxembourg	101	100	119	135	(NA)	103	100	111	125	(NA)
Canada	104	100	95	100	111	102	100	97	102	107
Denmark	99	100	127	149	149	100	100	119	136	138
France	98	100	123	141	(NA)	101	100	110	125	(NA)
Italy	101	100	122	142	(NA)	101	100	105	120	(NA)
Japan	101	100	120	131	144	100	100	85	92	98
Norway	101	100	87	93	(NA)	99	100	116	131	(NA)
Sweden	100	100	120	138	148	101	100	111	128	138
Switzerland	106	100	134	168	(NA)	101	100	123	143	(NA)
United Kingdom	99	100	105	122	135	100	100	110	125	136
West Germany	100	100	131	154	158	101	100	114	129	133

NA Not available.

Source: International Monetary Fund, Washington, DC, *International Financial Statistics*, monthly.

No. 1409. U.S. Exports and Imports—Indexes of Unit Value and Quantity: 1984 to 1988

[1977 = 100]

End-use commodity category	Index of export of U.S. merchandise					Index of general imports				
	1984	1985	1986	1987	1988	1984	1985	1986	1987	1988
UNIT VALUE										
All commodities	156.2	155.0	155.4	158.6	169.6	163.5	159.4	154.0	164.6	172.9
Food, feed and beverages	123.9	110.3	101.7	94.7	114.8	121.1	117.0	125.6	123.3	130.9
Industrial supplies and materials	148.1	140.8	135.8	142.0	154.4	178.1	167.2	129.5	143.1	147.3
Capital goods exc. auto	171.1	178.1	182.7	185.7	193.6	128.6	131.0	136.2	142.4	154.9
Auto. vehicles parts and engines	199.3	208.4	224.3	239.8	245.5	200.3	205.0	236.9	264.2	277.7
Consumer goods exc. foods and auto	140.9	138.5	142.2	142.1	149.8	134.8	128.9	130.1	133.9	138.8
QUANTITY										
All commodities	115.1	113.0	112.6	127.0	149.8	136.7	148.6	164.9	169.2	175.1
Food, feed and beverages	129.4	110.6	111.4	128.8	141.7	125.4	135.0	138.8	142.3	133.1
Industrial supplies and materials	123.5	123.8	126.0	139.2	163.7	91.9	91.5	105.8	103.3	107.4
Capital goods exc. auto	114.0	111.8	113.1	125.6	152.2	340.4	360.9	401.0	440.7	484.8
Auto. vehicles parts and engines	78.2	82.4	73.9	77.5	90.0	154.0	183.8	191.2	185.5	181.7
Consumer goods exc. foods and auto	94.3	91.3	99.8	124.2	156.8	201.0	242.6	277.4	300.0	311.2

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT-990, monthly, and unpublished data.

No. 1410. Domestic Exports, by Selected Commodity Groups: 1970 to 1988

[**In millions of dollars.** Totals and subtotals include data for commodities not shown separately. Beginning 1980, exports include nonmonetary gold. Commodity data beginning 1980 are not strictly comparable with previous years due to changes in export classifications; see source for changes. Beginning 1980, includes trade of Virgin Islands with foreign countries (see footnote 1 for exception). "N.e.c." means not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series U 274–294]

Commodity group	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
U.S. merchandise	**42,590**	[1] **216,668**	**228,961**	**207,158**	**195,969**	**212,057**	**206,925**	**206,376**	**243,859**	**308,014**
Food and live animals	**4,356**	**27,744**	**30,291**	**23,950**	**24,166**	**24,463**	**19,268**	**17,303**	**19,179**	**26,415**
Meat and preparations	175	1,293	1,482	1,285	1,191	1,208	1,153	1,424	1,768	2,430
Meat (fresh, chilled, or frozen)	147	1,217	1,389	1,194	1,110	1,129	1,090	1,365	1,699	2,327
Dairy products and eggs	137	255	433	409	373	368	388	407	385	496
Grains and preparations	2,596	18,079	19,457	14,747	15,152	16,076	11,050	7,368	8,058	12,281
Wheat and wheat flour	1,112	6,586	8,073	6,869	6,509	6,698	3,780	3,217	3,248	5,080
Rice	314	1,285	1,526	997	926	845	665	621	576	802
Coarse grains	1,072	9,866	9,501	6,420	7,231	8,241	6,251	3,132	3,742	5,897
Corn	824	8,570	8,014	5,682	6,480	7,081	5,319	2,718	3,314	5,191
Grain sorghums	196	1,080	1,174	720	747	880	839	389	406	685
Fruits and nuts	406	1,938	1,983	1,778	1,701	1,676	1,710	1,876	2,144	2,540
Fruit, fresh	164	716	802	730	761	688	693	780	829	956
Vegetables	178	992	1,131	937	744	759	667	781	811	948
Feed for animals	497	2,878	2,739	2,473	2,802	2,226	1,891	2,622	2,692	3,426
Beverages and tobacco	**702**	**2,663**	**2,915**	**3,026**	**2,813**	**2,849**	**2,958**	**2,920**	**3,667**	**4,548**
Tobacco and manufactures	679	2,426	2,723	2,845	2,647	2,704	2,789	2,732	3,400	4,153
Leaf tobacco	481	1,334	1,457	1,547	1,462	1,511	1,521	1,209	1,090	1,252
Cigarettes	159	1,055	1,229	1,235	1,126	1,120	1,180	1,298	2,047	2,645
Crude materials, inedible, exc. fuels	**4,605**	**23,791**	**20,993**	**19,248**	**18,596**	**20,249**	**16,939**	**17,324**	**20,416**	**25,135**
Hides and skins, except fur skins	145	694	700	778	807	1,171	1,088	1,314	1,450	1,639
Fur skins, undressed	42	352	325	244	203	212	207	207	281	188
Soybeans	1,216	5,883	6,200	6,240	5,925	5,438	3,906	4,334	4,343	4,816
Synthetic rubber	176	695	624	553	543	624	584	649	761	858
Wood in the rough [2]	366	2,002	1,426	1,522	1,366	1,372	1,448	1,418	1,848	2,549
Wood shaped or simply worked	193	1,060	933	811	914	841	760	994	1,349	1,825
Lumber, softwood	162	778	653	576	602	530	493	640	851	1,134
Woodpulp	464	1,652	1,661	1,415	1,432	1,502	1,343	1,662	2,250	2,915
Textile fibers and wastes	543	3,929	3,402	2,817	2,593	3,343	2,476	1,602	2,552	3,061
Raw cotton, excluding linters	372	2,864	2,260	1,955	1,817	2,441	1,633	773	1,631	1,975
Ores and metal scrap	940	4,518	2,718	2,174	2,276	2,666	2,692	2,802	3,018	4,729
Iron and steel scrap	447	1,226	639	610	637	918	917	1,054	967	1,352
Ores and scrap, nonferrous base	397	1,223	899	690	451	560	517	480	562	879
Mineral fuels and related materials	**1,595**	**7,982**	**10,279**	**12,729**	**9,500**	**9,311**	**9,971**	**8,114**	**7,713**	**8,186**
Coal	962	4,621	5,909	5,987	4,051	4,132	4,464	3,928	3,366	4,009
Petroleum and products	488	2,833	3,696	5,947	4,557	4,470	4,707	3,639	3,922	3,679
Lubricating oils	175	733	799	345	667	568	549	602	327	444
Animal and vegetable oils and fats	**493**	**1,946**	**1,750**	**1,541**	**1,459**	**1,922**	**1,434**	**1,016**	**981**	**1,454**
Tallow, inedible	176	677	645	572	568	617	538	350	362	477
Soybean oil	192	689	474	486	447	742	431	253	263	487

See footnotes at end of table.

No. 1410. Domestic Exports, by Selected Commodity Groups: 1970 to 1988—Continued

[In millions of dollars. See headnote, p. 811]

COMMODITY GROUP	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Chemicals and related products	**3,826**	**20,740**	**21,187**	**19,890**	**19,751**	**22,336**	**21,759**	**22,766**	**26,381**	**32,300**
Chemical elements and compounds	1,642	2,106	2,285	1,969	1,838	2,183	1,967	1,771	2,113	2,702
Dyeing, tanning, coloring materials	137	490	524	494	491	493	461	507	628	707
Medicinal, pharmaceutical prod.	420	1,932	2,165	2,275	2,494	2,628	2,708	3,090	3,182	3,941
Fertilizers, manufactured	178	2,265	1,735	1,386	1,267	1,815	2,160	1,935	2,259	2,498
Plastic materials and resins [3]	653	3,884	3,809	3,650	3,732	4,050	3,777	4,301	5,492	7,277
Machinery and transport equip	**17,882**	**84,628**	**95,736**	**87,148**	**82,578**	**89,973**	**94,278**	**95,290**	**108,596**	**135,135**
Machinery [4]	11,885	57,263	64,426	59,821	54,695	61,464	60,573	60,809	70,080	88,531
Power generating machinery	1,405	8,428	9,465	9,461	8,718	9,114	9,272	9,165	10,193	12,817
Agricultural machinery	182	1,295	1,420	1,127	832	965	854	772	868	1,070
Tractors and parts	750	2,150	2,296	1,760	1,389	1,921	1,832	1,155	1,250	1,573
Electronic computers, parts and accessories	1,236	7,763	8,741	9,159	10,599	13,461	13,841	14,514	17,495	22,448
Other office machines [5]	311	946	1,069	1,048	1,070	1,131	1,087	866	1,074	1,212
Metalworking machinery	396	1,756	2,158	1,611	1,121	1,175	1,249	1,467	1,606	1,925
Metalcutting machines	213	397	574	345	204	217	246	307	332	389
Textile, leather machinery	273	693	685	554	453	520	498	554	661	820
Construction, excavating, and mining equipment	434	1,628	1,823	1,253	766	760	820	713	773	782
Materials handling equipment	607	2,243	2,438	1,592	946	911	924	873	964	1,337
Air-conditioning and refrigerating equipment	397	1,523	1,694	1,487	1,268	1,309	1,199	1,121	1,335	1,747
Pumping equipment, incl. parts	241	1,091	1,248	1,246	1,003	1,025	1,000	910	994	1,189
Pipe valves and parts	196	829	936	854	716	673	610	609	711	798
Power machinery, switchgear	611	3,254	3,635	3,624	3,221	3,652	3,381	3,496	4,009	5,306
Generators, generating sets	117	619	745	686	376	590	330	307	339	540
Transforming, converting, transmission apparatus	156	914	1,116	1,325	926	995	937	937	1,014	1,365
Telecommunications apparatus	660	3,454	3,856	3,864	3,804	3,943	4,167	4,407	5,085	6,544
Radio, television apparatus	576	2,238	2,525	2,430	590	588	678	619	668	955
Domestic electrical equipment	119	796	841	673	611	626	550	542	742	1,140
Transport equipment [6]	6,197	27,366	31,310	26,668	27,298	28,509	33,706	34,026	38,000	45,497
Railway vehicles	91	452	488	433	402	584	426	538	346	311
Road motor vehicles, parts [6]	3,245	13,117	14,733	12,751	13,492	17,651	19,445	17,695	19,952	23,972
Automobiles, nonmilitary, new	822	3,919	3,919	2,860	4,200	4,868	6,020	6,254	6,694	8,312
Trucks and tractor trucks, commercial, new	452	1,467	1,618	1,186	1,042	1,686	2,183	1,996	2,243	2,438
Parts, accessories, commercial	1,603	6,058	7,395	6,939	7,531	9,069	9,376	8,492	9,657	10,836
Aircraft, parts, and accessories	2,656	12,816	14,738	11,775	12,189	10,914	14,373	15,106	16,904	20,004
Civilian aircraft	1,528	8,256	8,613	4,848	7,531	4,147	6,694	7,366	7,517	10,294
Other manufactured goods	**7,636**	**38,602**	**37,381**	**32,700**	**30,097**	**30,839**	**29,347**	**30,834**	**36,545**	**47,359**
Tires and tubes	186	511	584	372	304	392	343	315	514	772
Paper and manufactures	622	2,831	2,961	2,653	2,553	2,620	2,329	2,602	3,180	3,892
Paper and paperboard	526	2,162	2,192	1,877	1,843	1,914	1,722	1,992	2,430	2,919
Nonmetallic mineral mfrs., n.e.c.	475	2,209	2,194	1,804	1,770	1,865	1,821	1,886	2,289	2,861
Metals and manufactures	2,978	12,071	10,244	8,243	6,954	6,979	6,285	5,200	6,421	10,032
Iron and steelmill products [7]	1,188	2,998	2,801	2,101	1,415	1,248	1,152	1,020	1,223	2,017
Plates and sheets	335	936	663	372	295	284	270	291	362	839
Tubes, pipes, and fittings	226	1,080	1,252	1,214	731	605	510	391	436	635
Silver bullion, refined	31	1,327	181	106	169	86	82	57	79	94
Nonferrous base metals	893	2,964	2,046	1,768	1,606	1,634	1,798	1,195	1,699	3,041
Copper	358	434	388	322	386	395	299	682	345	707
Aluminum	358	2,022	1,297	1,026	1,010	990	937	816	1,202	2,116
Metal manufactures, n.e.c.	744	4,205	4,769	3,981	3,443	3,602	3,253	3,008	3,534	4,373
Tools for hand or machine	204	856	932	810	671	678	686	581	657	776
Textiles, other than clothing	603	3,632	3,619	2,784	2,368	2,382	2,366	2,570	2,933	3,650
Textile yarn and thread	145	753	902	711	533	547	628	573	677	910
Cotton broad-woven fabrics	103	566	349	253	201	193	204	301	292	286
Textile fabrics, woven, exc. cotton	151	832	797	522	430	424	388	466	555	629
Clothing	198	1,183	1,208	931	796	776	754	879	1,143	1,556
Professional, scientific, and controlling instruments [8]	857	5,256	5,980	6,003	5,856	6,198	6,505	6,732	7,388	8,889
Photographic supplies	250	1,507	1,501	1,396	1,366	1,464	1,313	1,418	1,472	1,589
Printed matter	327	1,097	1,297	1,341	1,324	1,391	1,279	1,342	1,562	1,918
Other transactions	**1,496**	**8,496**	**8,428**	**6,924**	**7,009**	**10,116**	**10,970**	**11,011**	**20,381**	**27,483**
Firearms of war and ammunition	682	2,006	2,165	3,261	3,092	2,971	2,653	2,282	2,258	2,609
Estimated shipments [9]	692	2,119	2,368	1,698	1,597	4,353	5,742	5,795	8,683	10,258

[1] Includes revisions not carried to commodity groups; therefore, commodity groups will not add to total. [2] Beginning 1980, includes pulpwood chips, formerly classified in "Other manufactured goods" under "Wood and manufactures." [3] Beginning 1980, includes rubber materials, formerly classified in "Other manufactured goods" under "Rubber manufactures." [4] Includes parts for tractors. [5] Beginning 1980, includes photocopy apparatus, formerly classified in "Other manufactured goods" under "Photographic and motion picture equipment." [6] Excludes parts for tractors. [7] Excludes pig iron. [8] Beginning 1980, electric measuring and controlling instruments are included in "Other manufactured goods" under "Professional, scientific, and controlling instruments"; formerly classified under "Machinery." [9] Beginning 1984, includes exports valued $10,000 and under reported without a valid schedule B commodity number; beginning 1985, includes estimates of export shipments valued under $1,001.

Source: U.S. Bureau of the Census, *U.S. Exports, Schedule E—Commodity by County,* FT 410, monthly.

No. 1411. General Imports, by Selected Commodity Groups: 1970 to 1988

[**In millions of dollars.** Imports are customs value basis for years 1982 to present; f.a.s. (free alongside ship) value basis prior to 1982. Totals and subtotals include value of commodities not shown separately. Beginning 1980, includes trade of Virgin Islands with foreign countries. "N.e.c." means not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series U 295-316]

COMMODITY	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
General imports	**39,952**	**244,871**	**261,305**	**243,952**	**258,048**	**325,726**	**345,276**	**369,961**	**405,901**	**441,282**
C.i.f. values [1]	*42,429*	*256,984*	*273,352*	*254,884*	*269,878*	*341,177*	*361,626*	*387,081*	*424,082*	*459,925*
Food and live animals	**5,375**	**15,766**	**15,238**	**14,453**	**15,412**	**17,973**	**18,649**	**20,802**	**20,547**	**20,107**
Cattle, except for breeding	111	228	182	289	301	279	301	426	421	598
Meat and preparations	1,014	2,346	1,996	2,075	2,034	2,034	2,237	2,367	2,786	2,738
Meat, fresh or frozen	647	1,756	1,150	1,525	1,384	1,381	1,533	1,655	1,987	2,043
Ham, shoulders, and bacon [2]	241	336	325	349	399	399	438	482	400	432
Fish, including shellfish	794	2,612	2,962	3,143	3,594	3,671	3,985	4,691	5,590	5,327
Fruits and nuts	447	1,245	1,604	1,774	1,855	2,673	2,717	2,781	3,098	3,244
Bananas	188	416	542	581	569	627	723	709	773	779
Vegetables	289	802	983	1,042	1,065	1,218	1,261	1,420	1,378	1,418
Sugar	725	1,987	2,142	863	1,046	1,258	936	670	438	436
Coffee, green	1,160	3,872	2,622	2,730	2,590	3,064	3,130	4,293	2,706	2,030
Cocoa or cacao beans	201	395	466	323	349	411	564	418	504	405
Tea	53	131	133	129	132	203	166	133	106	129
Beverages and tobacco	**855**	**2,784**	**3,138**	**3,364**	**3,408**	**3,653**	**3,727**	**3,866**	**4,105**	**4,139**
Alcoholic beverages	725	2,232	2,399	2,513	2,626	2,853	2,966	3,066	3,268	3,414
Tobacco, unmanufactured	111	422	427	445	464	625	535	591	588	445
Crude materials, inedible, except fuels	**3,307**	**10,516**	**11,193**	**8,589**	**9,590**	**11,082**	**10,391**	**10,432**	**11,526**	**13,397**
Hides and skins, except fur skins	51	88	101	71	64	70	74	65	82	102
Fur skins, undressed	59	143	168	127	126	160	173	145	218	154
Rubber, including latex	231	980	980	735	909	1,132	654	921	1,125	1,445
Lumber, softwood	439	1,984	1,880	1,636	2,590	2,687	2,909	2,984	3,086	2,959
Lumber, hardwood	61	145	149	98	127	161	166	153	250	214
Woodpulp	480	1,725	1,778	1,485	1,470	1,845	1,499	1,604	2,069	2,608
Textile fibers and wastes	202	242	343	264	312	387	348	358	438	523
Wool and other animal hair	116	146	210	152	176	211	166	186	251	331
Industrial diamonds	39	119	118	80	96	106	136	105	83	127
Asbestos, unmanufactured	75	97	108	65	58	65	44	27	23	22
Ores and metal scrap	1,149	3,715	3,838	2,684	2,498	2,890	2,331	2,148	2,446	3,264
Iron ore and concentrates	480	773	951	497	452	534	468	469	411	485
Silver ore and base bullion	49	342	250	176	242	202	137	130	145	160
Nonferrous base metals [3]	522	2,291	1,722	1,552	1,306	1,606	1,290	1,020	1,167	1,601
Bauxite, crude	165	432	443	383	250	311	210	189	234	251
Mineral fuels and related materials	**3,075**	**82,924**	**81,417**	**65,409**	**57,952**	**60,980**	**53,917**	**37,310**	**44,219**	**41,088**
Petroleum and products	2,764	77,637	75,577	59,396	52,325	55,906	49,607	34,140	41,529	38,175
Petroleum, crude and partly refined	1,448	65,717	61,940	45,862	36,809	36,529	33,034	22,720	29,321	25,844
Petroleum products	1,316	11,920	13,637	13,535	15,516	19,377	16,572	11,101	12,209	12,045
Natural gas	258	5,155	5,720	5,934	5,530	4,923	4,136	2,994	2,504	2,577
Animal and vegetable oils and fats	**160**	**533**	**479**	**406**	**495**	**696**	**672**	**516**	**568**	**849**
Chemicals and related products	**1,450**	**8,593**	**9,446**	**9,493**	**10,779**	**13,697**	**14,533**	**15,001**	**16,213**	**19,876**
Organic chemicals	355	2,541	2,974	2,960	3,477	4,265	4,576	4,704	5,408	6,953
Inorganic chemicals [3]	371	2,313	2,359	2,645	2,568	3,458	3,401	3,276	3,042	3,596
Medicinal and pharmaceutical products	87	509	583	563	703	931	1,084	1,240	1,456	1,859
Fertilizers, manufactured	192	1,104	1,181	963	997	1,142	967	865	1,001	1,021
Machinery and transport equipment	**11,172**	**60,558**	**69,627**	**73,320**	**86,131**	**119,192**	**137,264**	**161,562**	**177,809**	**197,053**
Machinery	5,375	32,286	38,546	39,457	46,975	68,390	75,299	87,549	99,433	117,281
Engines and parts	782	1,866	2,251	2,611	3,570	6,348	8,849	8,482	9,391	10,897
Agricultural machinery	173	686	639	485	475	588	577	613	750	861
Tractors and parts	175	1,049	948	757	924	1,298	811	1,331	1,467	1,748
Office machines and data processing equipment	505	2,929	3,563	4,299	6,759	10,791	11,562	14,669	18,462	22,601
Metalworking machinery	164	1,425	1,613	1,468	1,480	2,025	2,759	3,249	2,976	3,327
Textile and leather machinery	361	889	974	924	1,059	1,282	1,105	1,447	1,811	2,088
Power machinery	247	2,039	2,378	2,547	2,974	7,291	8,849	9,802	10,860	10,972
Telecommunications apparatus	1,102	6,716	8,910	9,051	11,278	15,934	18,659	20,720	20,820	22,278
Electron tubes, transistors, semiconductor devices, and parts	224	3,592	3,959	4,524	5,388	8,228	6,227	6,540	8,218	11,539
Transport equipment	5,798	28,260	31,415	33,863	39,156	50,802	61,965	74,013	78,376	79,772
Automobiles and parts	5,068	24,015	26,113	29,218	34,870	45,284	45,476	66,201	70,680	71,268
Automobiles, new	3,722	16,776	17,540	19,757	22,934	29,208	36,475	45,302	47,858	47,005
Motorcycles	307	1,149	1,263	1,019	659	731	954	736	437	499
Aircraft and parts	274	1,885	2,585	2,481	2,051	3,011	3,578	4,494	4,475	5,168
Other manufactured goods	**13,285**	**55,970**	**63,471**	**61,209**	**66,539**	**88,625**	**94,982**	**105,559**	**118,539**	**132,101**
Leather manufactures and dressed furs	118	393	567	523	582	758	406	808	1,031	1,290
Rubber tires and tubes	205	1,143	1,331	1,239	1,406	1,839	1,923	1,986	2,271	2,448
Wood manufactures (excl. furniture)	409	1,133	1,199	991	1,335	1,546	780	1,777	2,103	2,134
Paper and manufactures	1,087	3,587	3,874	3,848	4,216	5,571	5,977	6,360	7,310	8,336
Newsprint	930	2,685	2,871	2,749	2,759	3,299	3,633	3,682	4,116	4,462
Construction materials [4]	106	550	565	507	628	940	1,158	1,356	1,503	1,632
Glass, glassware, and pottery	338	1,228	1,349	1,351	1,602	1,468	2,195	2,492	2,871	2,974
Diamonds, excluding industrial	433	2,252	2,198	1,917	2,275	2,905	3,006	3,459	3,423	4,306

See footnotes at end of table.

No. 1411. General Imports, by Selected Commodity Groups: 1970 to 1988—Continued

[In millions of dollars. See headnote, p. 813]

COMMODITY	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Other manufactured goods—Con.										
Metals and manufactures	4,508	18,717	22,333	19,227	18,717	24,964	23,834	23,616	25,144	30,748
Pig iron and ferroalloys	78	678	863	428	453	664	468	621	628	1,141
Iron and steelmill products	1,952	6,692	10,347	9,184	6,338	10,208	10,266	8,168	8,493	10,274
Bars, rods, shapes, and pilings	486	1,420	1,747	1,469	1,307	1,865	1,775	1,603	1,726	2,032
Plates and sheets	906	2,505	2,998	2,542	2,993	4,566	4,237	3,838	4,064	4,467
Steel wire	119	293	288	242	287	226	438	208	207	235
Tubes, pipes, and fittings	349	2,193	4,836	4,466	1,366	2,633	2,445	1,592	1,502	2,347
Nonferrous base metals	1,502	5,182	5,270	4,018	4,785	6,252	7,008	5,753	6,377	8,552
Copper	532	1,470	1,279	988	1,341	1,512	1,146	1,377	1,551	2,098
Nickel	317	885	868	568	524	600	604	515	573	1,220
Aluminum	238	974	1,355	1,336	1,629	2,450	1,995	2,744	2,860	3,442
Lead	74	91	90	57	65	90	57	61	137	114
Tin	190	776	644	378	453	513	426	243	270	316
Silver, refined bullion	53	1,329	837	786	1,926	848	869	688	460	476
Platinum group metals	98	1,107	742	512	707	1,062	962	1,251	1,148	1,264
Metal manufactures, n.e.c	825	3,732	4,170	4,294	4,504	5,923	6,560	7,129	8,035	9,031
Textiles, other than clothing	1,135	2,499	3,046	2,807	3,225	4,531	4,900	5,768	6,511	6,373
Textile yarn and thread	223	194	231	260	355	523	534	689	735	708
Cotton fabrics, woven	173	433	607	489	560	878	837	1,006	1,293	984
Textile fabrics, woven, exc. cotton [5]	499	408	572	533	586	702	100	948	889	948
Twine and cordage	35	114	104	82	87	85	79	66	72	82
Floor coverings	53	283	306	277	332	491	549	608	683	604
Clothing	1,269	6,430	7,537	8,165	9,583	13,497	14,949	17,288	20,490	21,518
Footwear	629	2,809	3,019	3,437	4,010	5,034	5,695	6,473	7,236	8,041
Professional, scientific, photographic, and controlling instruments [6]	356	2,654	3,701	3,132	3,528	4,696	3,211	1,598	4,509	5,174
Clocks and watches	184	1,127	1,275	991	1,058	1,254	1,367	1,536	1,702	1,909
Musical instruments, sound recorders and reproducers, and parts [7]	505	487	621	729	927	1,288	1,794	2,396	2,527	2,548
Printed matter	160	613	622	664	739	980	1,116	1,376	1,494	1,581
Articles of plastic and rubber, n.e.c	236	916	1,006	1,102	1,352	1,861	1,631	2,833	3,494	4,072
Toys, games, and sporting goods	427	1,836	2,075	2,698	2,412	3,189	4,075	4,520	5,772	6,492
Artworks and antiques	162	2,672	2,056	2,024	2,017	2,467	2,188	2,091	1,952	2,044
Other transactions	**1,274**	**7,225**	**7,296**	**7,708**	**7,742**	**9,828**	**11,141**	**14,914**	**12,374**	**12,672**

[1] Value on a cost, insurance, and freight basis: cost (to the U.S. importer) of commodities at port of exportation plus insurance and freight to U.S. customs port of entry. 1970 is estimated. [2] Canned, cooked, and boned. [3] Prior to 1980, alumina is included under chemicals; thereafter, classified in crude materials. [4] Materials of lime, cement, and clay. [5] Excludes narrow or special fabrics. [6] Beginning 1980, electric measuring and controlling instruments are included in "Other manufactured goods" under "Professional, scientific, photographic, and controlling instruments"; prior to 1980, classified under "Machinery."
[7] Beginning 1980, sound recorders included in "Machinery."

Source: U.S. Bureau of the Census, *U.S. General Imports and Imports for Consumption, Schedule A—Commodity by Country,* FT 135, monthly.

No. 1412. Imports for Consumption—Values and Duties: 1960 to 1988

[Imports are on customs value basis. Beginning 1965, includes uranium, thorium, and related products; beginning 1970, includes silver ores and bullion, and beginning 1980, includes trade of Virgin Islands with foreign countries. For basis of dollar values and for area coverage, see text, section 29. See also *Historical Statistics, Colonial Times to 1970,* series U 207-212]

YEAR	VALUES				Duties calculated [1] (mil. dol.)	RATIO OF DUTIES TO VALUES		Duties per capita [2] (dollar)
	Total (mil. dol.)	Free (mil. dol.)	Dutiable (mil. dol.)	Percent free		Total imports (percent)	Dutiable imports (percent)	
1960	14,650	5,780	8,870	39	1,084	7	12	6.00
1965	21,283	7,434	13,849	35	1,643	8	12	8.46
1970	39,756	13,870	25,886	35	2,584	6	10	12.60
1971	45,516	15,286	30,230	34	2,767	6	9	13.32
1972	55,290	18,915	36,375	34	3,124	6	9	14.88
1973	69,024	28,258	40,766	41	3,620	5	8	17.08
1974	100,140	52,052	48,088	52	3,771	4	8	17.63
1975	96,516	31,030	65,486	32	3,780	4	6	17.50
1976	121,121	37,190	83,931	31	4,675	4	6	21.44
1977	147,075	43,633	103,442	30	5,485	4	5	24.91
1978	[3] 172,912	51,827	121,125	30	7,162	4	6	32.17
1979	[3] 205,850	103,278	102,645	50	7,202	3	7	31.99
1980	[3] 244,007	106,992	132,951	45	7,535	3	6	33.09
1981	259,012	76,338	182,674	29	8,893	3	5	38.67
1982	242,340	75,856	166,484	31	8,668	4	5	37.40
1983	256,679	83,397	173,283	32	9,430	4	5	40.21
1984	322,989	102,977	220,012	32	12,042	4	5	50.90
1985	343,553	106,035	237,518	31	13,067	4	6	54.73
1986	368,657	121,742	246,915	33	13,312	4	5	55.10
1987	402,066	132,152	269,914	33	13,923	3	5	57.08
1988	437,140	151,693	285,447	35	15,054	3	5	61.12

[1] Customs duties (including import excise taxes) calculated on the basis of reports of quantity and value of imports of merchandise entered directly for consumption or withdrawn from bonded customs warehouses. [2] Based on estimated population including Armed Forces abroad as of July 1. [3] Total includes revisions not carried to free and dutiable values.

Source: U.S. Bureau of the Census, *Foreign Commerce and Navigation of the United States, Quarterly Summary of Foreign Commerce of the United States; Highlights of U.S. Export and Import Trade,* FT 990, monthly; and unpublished data.

No. 1413. Domestic Exports and Imports for Consumption of Merchandise, by Selected SIC-Based Product Category: 1980 to 1988

[**In millions of dollars.** Includes nonmonetary gold; beginning 1980, includes trade of U.S. Virgin Islands with foreign countries. For 1980 and 1981, imports are free alongside ship (f.a.s.) value at foreign port exportation; thereafter, customs value basis]

SIC [1] code	SIC-BASED PRODUCT CATEGORY	1980	1981	1982	1983	1984	1985	1986	1987	1988
(x)	**Domestic exports, total** [2]	**216,592**	**228,961**	**207,158**	**195,969**	**212,057**	**206,925**	**206,376**	**243,859**	**308,014**
(x)	Agricultural, forestry and fishery products	30,091	31,463	26,486	25,972	27,557	20,073	15,967	17,717	23,385
01	Agricultural products	29,238	30,527	25,626	25,150	26,770	19,199	15,088	16,678	22,043
02	Livestock and livestock products	715	792	713	689	646	735	740	855	1,108
08	Forestry products	110	109	111	99	115	122	120	155	185
09	Fish, fresh or chilled; and other marine products [3]	28	35	36	34	26	18	20	30	50
(x)	Mineral commodities	8,338	9,144	8,620	6,176	6,417	6,394	5,599	5,058	6,050
10	Metallic ores and concentrates	1,320	962	684	498	644	686	590	597	903
11	Anthracite coal	98	103	53	43	42	65	66	57	(4)
12	Bituminous coal and lignite	4,529	5,813	5,938	4,013	4,091	4,400	3,864	3,311	[4] 4,013
13	Crude petroleum and natural gas	976	912	762	492	448	476	306	271	237
14	Nonmetallic minerals, fuels	1,415	1,354	1,183	1,129	1,193	767	774	822	897
(x)	Manufactured commodities	171,355	184,225	168,376	159,608	173,284	175,750	179,401	208,438	261,836
20	Food and kindred products	12,124	12,933	11,079	11,022	11,067	10,055	11,250	12,320	15,747
21	Tobacco manufactures	1,091	1,265	1,298	1,186	1,192	1,268	1,522	2,310	2,862
22	Textile mill products	2,488	2,326	1,766	1,559	1,541	1,462	1,653	1,891	2,339
23	Apparel and related products	1,620	1,651	1,271	1,114	1,065	1,019	1,213	1,518	1,992
24	Lumber and related products	3,695	3,049	2,863	2,852	2,699	2,668	3,018	3,961	5,352
25	Furniture and fixtures	476	634	593	522	546	483	466	550	727
26	Paper and allied products	4,670	4,755	4,210	4,103	4,322	3,886	4,479	5,676	7,040
27	Printing and publishing	1,115	1,315	1,358	1,323	1,378	1,250	1,298	1,525	1,882
28	Chemicals and allied products	21,095	21,659	20,021	19,688	22,249	21,797	22,562	26,090	32,549
29	Petroleum and coal products	2,849	3,996	6,402	5,325	5,113	5,433	4,228	4,479	3,642
30	Rubber and misc. plastics products	2,675	2,970	2,631	2,634	2,936	2,765	2,941	3,710	4,986
31	Leather and leather products	510	519	498	457	526	478	521	688	892
32	Stone, clay, and glass products	1,922	2,102	1,860	1,779	1,904	1,792	1,723	2,045	3,418
33	Primary metal products	11,491	8,780	5,463	4,892	5,360	4,747	4,803	5,806	11,362
34	Fabricated metal products	6,927	7,947	7,692	6,732	6,530	5,765	5,542	6,185	7,258
35	Machinery, except electrical	38,084	42,924	38,920	33,190	37,268	37,478	36,358	41,054	52,052
36	Electric and electronic equipment	16,354	18,392	18,144	18,029	20,164	18,908	20,415	24,359	27,571
37	Transportation equipment	29,206	33,188	29,702	30,864	32,173	38,024	37,977	42,371	50,759
38	Instruments and related products	7,690	8,426	8,371	8,271	8,684	8,623	9,237	10,191	16,078
39	Misc. manufacturing	2,888	2,728	2,208	2,165	1,895	1,773	2,080	2,719	3,662
(x)	**Imports for consumption, total** [2]	**239,588**	**259,319**	**242,340**	**256,680**	**322,989**	**343,553**	**368,657**	**402,066**	**437,140**
(x)	Agricultural, forestry and fishery products	10,536	10,216	9,982	10,743	12,301	12,805	14,753	14,401	14,149
01	Agricultural products	6,531	5,962	5,733	5,857	6,936	7,483	8,792	7,444	6,969
02	Livestock and livestock products	684	666	749	820	977	933	993	999	1,238
08	Forestry products	984	968	706	782	978	830	786	933	1,235
09	Fish, fresh or chilled; and other marine products [3]	2,337	2,620	2,795	3,285	3,411	3,559	4,183	5,026	4,708
(x)	Mineral commodities	70,717	70,015	53,705	43,573	43,500	39,011	27,780	33,615	30,971
10	Metallic ores and concentrates	2,312	2,297	1,946	1,321	1,636	1,265	1,318	1,130	1,278
12	Bituminous coal and lignite [4]	30	30	23	43	44	70	80	56	64
13	Crude petroleum and natural gas	65,857	65,581	50,115	40,670	39,962	35,872	24,463	30,843	27,514
14	Nonmetallic minerals, exc. fuels	2,517	2,106	1,621	1,539	1,859	1,804	1,919	1,586	2,116
(x)	Manufactured commodities	150,643	171,355	170,406	194,405	257,643	280,089	314,139	341,142	377,893
20	Food and kindred products	10,381	10,693	9,561	10,334	12,010	12,521	12,521	13,180	13,710
21	Tobacco manufactures	93	200	227	404	88	78	82	91	86
22	Textile mill products	2,023	2,466	2,201	2,524	3,469	3,616	4,136	4,697	4,458
23	Apparel and related products	6,543	7,750	8,432	9,898	13,916	15,710	18,171	21,503	22,170
24	Lumber and related products	3,648	3,643	3,059	4,426	4,838	5,109	5,374	5,959	5,907
25	Furniture and fixtures	1,083	1,228	1,354	1,795	2,458	3,220	3,997	4,575	4,721
26	Paper and allied products	5,322	5,659	5,343	5,681	7,431	7,493	7,983	9,461	11,042
27	Printing and publishing	628	639	672	795	1,070	1,200	1,488	1,583	1,687
28	Chemicals and allied products	7,003	7,871	7,655	9,366	11,997	12,790	13,281	14,400	20,504
29	Petroleum and coal products	13,420	15,820	15,643	17,395	21,202	18,282	12,836	13,123	10,418
30	Rubber and misc. plastics products	2,743	3,112	2,937	3,405	4,365	4,721	5,381	6,331	7,756
31	Leather and leather products	3,379	3,873	4,496	5,296	6,788	7,724	8,648	9,930	10,952
32	Stone, clay, and glass products	2,262	2,483	2,398	2,862	3,791	4,296	4,910	5,560	5,973
33	Primary metal products	18,027	20,478	16,813	16,359	22,117	20,439	22,580	19,254	24,008
34	Fabricated metal products	4,396	5,028	5,154	5,273	6,804	7,754	8,476	9,562	10,553
35	Machinery, except electrical	14,222	16,281	16,163	18,440	27,621	31,310	38,234	44,808	53,175
36	Electric and electronic equipment	15,451	18,833	20,124	24,626	35,326	37,951	42,734	46,566	52,135
37	Transportation equipment	29,895	33,063	35,683	41,627	54,297	65,944	79,887	84,347	86,398
38	Instruments and related products	4,692	5,638	5,380	6,023	7,729	8,805	10,646	11,547	15,516
39	Misc. manufacturing	5,430	6,596	7,110	7,393	9,714	11,130	12,776	14,666	16,724

X Not applicable. [1] Standard Industrial Classification. [2] Includes scrap and waste, used or secondhand merchandise, and manufactured commodities not identified by kind. [3] Includes frozen and packaged fish. [4] Bituminous coal and lignite includes anthracite.

Source: U.S. Bureau of the Census, 1980–1987, *Highlights of U.S. Export and Import Trade*, FT 990; 1988, unpublished data. Available on microfiche, series EM575 and IM-175 from the Foreign Trade Division.

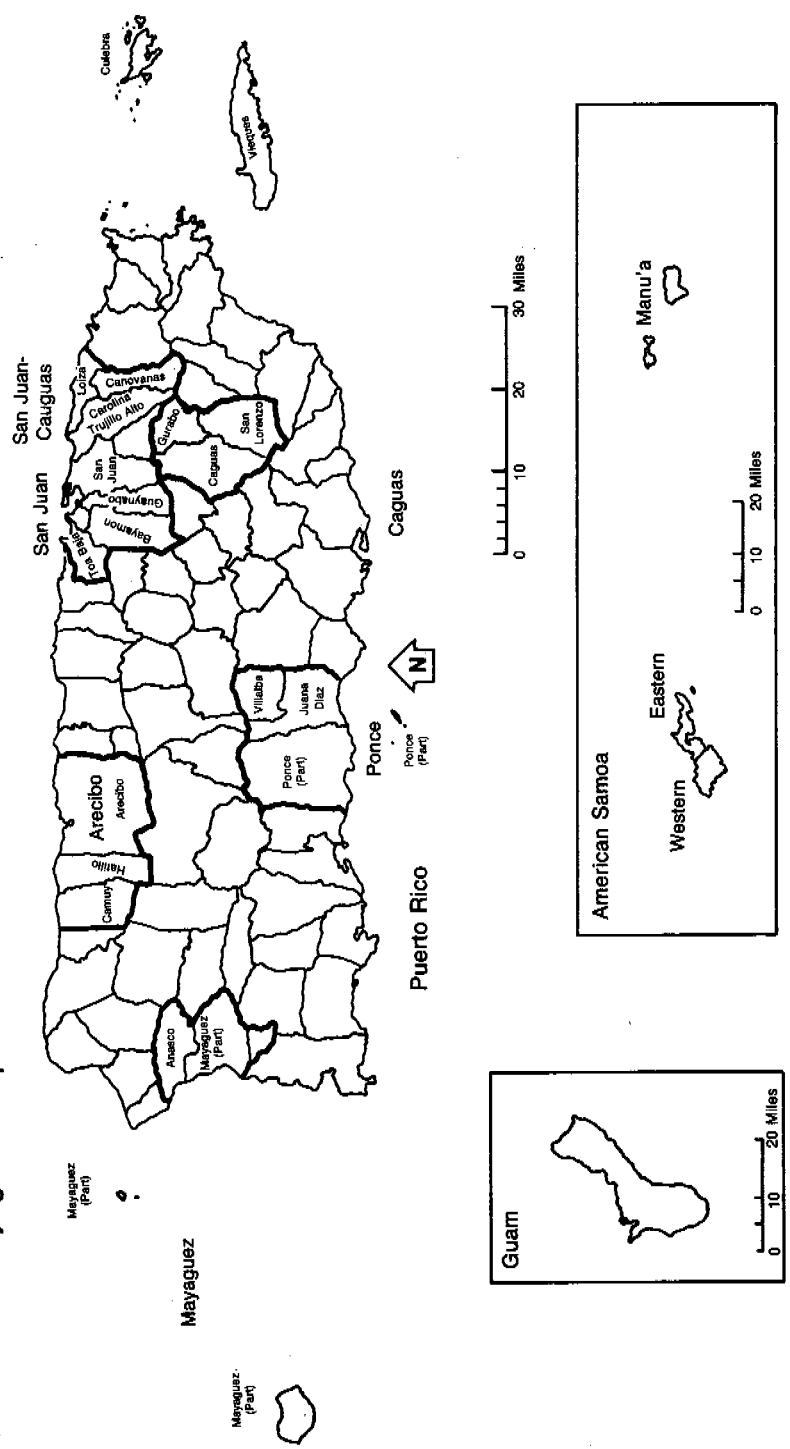


Figure 30.1
Selected U.S. Outlying Areas Map.

1990

Section 30

Outlying Areas

This section presents summary economic and social statistics for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Northern Mariana Islands.

Primary sources are the decennial censuses of population and housing, and the censuses of agriculture, business, manufactures, and construction (taken every five years) conducted by the Bureau of the Census; the annual *Vital Statistics of the United States,* issued by the National Center for Health Statistics; and the annual *Income and Product* of the Puerto Rico Planning Board, San Juan.

Jurisdiction.—The United States gained jurisdiction over these areas as follows:

The islands of *Puerto Rico* and *Guam,* surrendered by Spain to the United States in October 1898, were ceded to the United States by the Treaty of Paris, ratified in 1899. Puerto Rico became a Commonwealth on July 25, 1952, thereby achieving a high degree of local autonomy under its own constitution. The *Virgin Islands,* comprising 50 islands and cays, was purchased by the United States from Denmark in 1917. *American Samoa,* a group of 7 islands, was acquired by the United States in accordance with a convention among the United States, Great Britain, and Germany, ratified in 1900 (Swains Island was annexed in 1925).

By an agreement approved by the Security Council and the United States the Northern Mariana Islands, previously under Japanese mandate, was administered by the United States between 1947 and 1986 under the United Nations trusteeship system. The Northern Mariana Islands became a Commonwealth in 1986.

For a brief summary of U.S. territorial development, see table 338.

Censuses.—Because characteristics of the outlying areas differ, the presentation of census data for them is not uniform. The 1960 Census of Population covered all of the places listed above except the Northern Mariana Islands (their census was conducted in April 1958 by the Office of the High Commissioner), while the 1960 Census of Housing also excluded American Samoa. The 1970 and 1980 Censuses of Population and Housing covered all five areas. The 1959, 1969, and 1978 Censuses of Agriculture covered Puerto Rico, American Samoa, Guam, and the Virgin Islands; the 1964, 1974, and 1982 censuses covered the same areas except American Samoa; and the 1978 and 1987 censuses included the Northern Mariana Islands. Beginning in 1967, Congress authorized the economic censuses, to be taken at 5-year intervals, for years ending in 2 and 7. Prior economic censuses were conducted in Puerto Rico for 1954, 1958, and 1963, and in Guam and the Virgin Islands for 1958 and 1963. In 1967, the census of construction industries was added for the first time in Puerto Rico; in 1972 Virgin Islands and Guam were covered. For 1982 and 1987, the economic censuses covered the Northern Mariana Islands.

Information in other sections.—In addition to the statistics presented in this section, other data are included as integral parts of many tables showing distribution by States in various sections of the *Abstract.* See "Outlying areas of the United States" in the index. For definition and explanation of terms used, see section 1, Population; section 4, Education; section 23, Agriculture; section 26, Construction and Housing; section 27, Manufactures; and section 28, Domestic Trade and Services.

No. 1414. Estimated Resident Population, by Area: 1950 to 1988

[**In thousands.** As of **July 1.** Includes estimates of Armed Forces stationed in area]

AREA	1950	1960	1970	1975	1980	1985	1986	1987	1988
Puerto Rico	2,218	2,362	2,716	2,933	3,206	3,282	3,273	3,292	3,291
American Samoa	19	20	27	30	32	36	37	38	40
Guam	60	66	86	102	107	124	127	130	133
Virgin Islands	27	32	63	94	98	111	110	106	103
Northern Mariana Islands[1]	(NA)	(NA)	12	15	17	19	20	20	21

NA Not available. [1]Data consistent with apportionment census of September 1973 which showed a total population of 14,333 for the Marianas.

Source: U.S. Bureau of the Census, *Current Population Reports,* series P-25, Nos. 80, 336, 943, and 1,049.

No. 1415. Estimates of Components of Population Change, by Area: 1970 to 1980 and 1980 to 1988

[**In thousands, except percent.** Resident population, including Armed Forces stationed in area. See table 1416 for population totals. Minus sign (–) indicates decrease. For explanation of methodology, see source]

Area	April 1, 1970 to April 1, 1980					April 1, 1980 to July 1, 1988				
	Net change		Births	Deaths	Net migration [1]	Net change		Births	Deaths	Net migration [1]
	Number	Percent				Number	Percent			
Puerto Rico	484.5	17.9	744.0	193.7	–65.9	95.0	3.0	546.0	185.0	–267.0
American Samoa	5.1	18.9	10.6	1.4	–4.1	7.2	22.4	11.2	1.3	–2.7
Guam	21.0	24.7	30.7	4.1	–5.7	27.0	25.5	25.9	3.7	4.9
Virgin Islands	34.1	54.6	26.6	5.0	12.5	6.6	6.9	20.1	4.4	–9.0
Northern Mariana Islands [2]	4.6	37.5	5.3	.9	(3)	4.4	26.1	5.9	.9	(3)

[1] Includes error of closure (the amount necessary to make the components of change add to the net change between censuses). [2] See footnote 1, table 1414. [3] Migration is derived as a residual. Because part of the residual migration in these areas reflects under-registration of vital statistics, migration figures are not shown.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-25, Nos. 943 and 1049.

No. 1416. Population and Median Age, by Area and Sex: 1960 to 1980

[As of **April 1**. For definition of median, see Guide to Tabular Presentation]

Area and sex	Population (1,000)			Median age (years)			Area and sex	Population (1,000)			Median age (years)		
	1960	1970	1980	1960	1970	1980		1960	1970	1980	1960	1970	1980
Puerto Rico	2,349.5	2,712.0	3,196.5	18.5	21.6	24.6	Guam	67.0	85.0	106.0	20.8	20.4	22.3
Male	1,162.8	1,329.9	1,556.7	18.0	20.9	23.7	Male	39.2	47.3	55.3	22.9	21.6	22.4
Female	1,186.8	1,382.2	1,639.8	18.9	22.2	25.5	Female	27.8	37.7	50.7	16.5	18.2	22.1
American Samoa	20.1	27.2	32.3	15.2	16.1	18.8	Virgin Islands	32.1	62.5	96.6	20.7	23.0	22.5
Male	10.2	13.7	16.4	14.6	16.1	18.4	Male	15.9	31.3	46.2	20.3	23.1	21.1
Female	9.9	13.6	15.9	15.8	16.1	19.2	Female	16.2	31.3	50.4	21.2	23.0	23.6
							No. Mariana Is	(NA)	9.6	16.8	(NA)	15.2	19.7
							Male	(NA)	4.9	8.8	(NA)	15.4	20.9
							Female	(NA)	4.7	8.0	(NA)	15.0	18.5

NA Not available.

Source: U.S. Bureau of the Census, *Census of Population: 1960*, vol. I; *1970, Vol. I, Characteristics of the Population*, parts 53–58; and *1980, Vol. 1, Chapter B, Characteristics of the Population*, parts 53–57a.

No. 1417. Population, by Place of Birth and Year of Immigration—Area: 1980

[As of **April 1**]

Item	Guam	Virgin Islands	American Samoa	Northern Mariana Islands
Total resident population [1]	**105,979**	**96,569**	**32,297**	**16,780**
Born in this area	52,113	43,234	18,586	11,993
Percent of total	49.2	44.8	57.5	71.5
Born in the United States	22,950	11,964	2,189	553
Born in other outlying areas	3,552	4,993	24	2,074
Born in Asia	22,648	549	268	1,915
Born outside this area	50,595	[2] 30,731	13,442	4,623
Immigrated:				
1975–1980	32,159	7,080	7,168	2,916
1970–1974	8,782	7,054	2,715	1,027
1960–1969	6,342	13,566	2,405	398
Before 1960	3,312	3,031	1,154	282

[1] Includes persons born elsewhere and place of birth not reported. [2] Excludes 4,993 persons born in Puerto Rico; 11,964 born in the United States; and 282 born abroad of American parents.

Source: U.S. Bureau of the Census, *1980 Census of Population*, vol. 1, chapters C and D, parts 54–57a.

No. 1418. Land Area and Population Characteristics, by Area: 1980

[As of **April 1**. See also table 338, for gross area (land and water). For definition of median, see Guide to Tabular Presentation]

ITEM	Puerto Rico	Guam	Virgin Islands	American Samoa	Northern Mariana Islands
Land area (sq. miles)	3,459	209	132	77	184
Total resident population	**3,196,520**	**105,979**	**96,569**	**32,297**	**16,780**
Per square mile	924.1	507.1	731.6	419.4	91.2
Percent increase, 1970–1980	17.9	24.7	54.6	18.9	74.1
Urban	2,134,365	41,875	37,730	5,660	2,678
Rural	1,062,155	64,104	58,839	26,637	14,102
Male	1,556,727	55,321	46,204	16,384	8,817
Female	1,639,793	50,658	50,365	15,913	7,963
Males per 100 females	94.9	109.2	91.7	103.0	110.7
Median age (years)	24.6	22.3	22.5	18.8	19.7
Male (years)	23.7	22.4	21.1	18.4	20.9
Female (years)	25.5	22.1	23.6	19.2	18.5
Persons 25 years old and over	1,577,682	46,906	44,986	12,184	6,760
School years completed:					
Elementary: 0–8 years	753,742	9,973	15,997	4,360	2,886
High school:					
1–3 years	200,269	6,157	6,475	2,697	851
4 years or more	332,770	14,653	11,543	3,108	1,543
College	290,901	16,123	10,971	2,019	1,480
Marital status, persons 15 years old and over	**2,187,246**	**69,007**	**61,791**	**19,090**	**9,975**
Single	613,024	20,675	22,376	7,406	3,462
Married [1]	1,320,193	44,041	32,204	10,571	5,977
Widowed or divorced	254,029	4,291	7,211	1,113	536
Households and families:					
Population in households	3,176,511	101,000	95,949	31,963	16,234
Number of households	636,565	24,834	28,329	4,513	3,028
Population per household	4.99	4.07	3.39	7.08	5.36
Families	753,936	21,780	20,855	4,287	2,652
Husband-wife families	560,326	18,473	13,612	3,475	2,113

[1] Includes consensually married couples and separated couples.

Source: U.S. Bureau of the Census, *1980 Census of Population*, vol. 1, chapters C and D, pts. 53–57a and unpublished data.

No. 1419. Vital Statistics—Specified Areas: 1960 to 1986

[Births, deaths, and infant deaths by place of residence; marriages and divorces by place of occurrence. Rates for 1960, 1970, and 1980 based on population enumerated as of **April 1**; for all other years, on population estimated as of **July 1**]

AREA AND YEAR	BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		DIVORCES [3]	
	Number	Rate [1]	Number	Rate [1]	Number	Rate [2]	Number	Rate [1]	Number	Rate [1]
Puerto Rico:										
1960	76,914	32.5	15,791	6.7	3,307	43.3	[4] 20,212	[4] 8.6	5,218	2.2
1970	67,628	24.8	18,080	6.7	1,930	28.6	29,905	11.0	9,688	3.6
1975	69,702	23.8	17,805	6.1	1,335	19.2	32,731	11.2	12,985	4.4
1980	72,986	22.8	20,413	6.4	1,351	18.5	33,167	10.4	15,276	4.8
1981	71,300	21.9	21,085	6.5	1,318	18.5	31,892	9.8	14,247	4.4
1982	69,256	21.2	21,427	6.6	1,187	17.1	30,799	9.4	14,084	4.3
1983	65,659	20.1	21,377	6.5	1,131	17.2	29,487	9.0	13,164	4.0
1984	63,247	19.3	21,618	6.6	987	15.6	29,499	9.0	13,698	4.2
1985	63,547	19.4	23,071	7.0	944	14.9	30,355	9.2	14,686	4.5
1986	63,479	19.4	23,182	7.1	869	13.7	(NA)	(NA)	(NA)	(NA)
Guam:										
1965	2,523	32.8	336	4.4	82	32.5	471	6.2	53	.7
1970	2,842	28.8	355	5.8	62	21.6	874	9.9	84	1.0
1975	3,156	30.9	427	4.2	65	20.6	1,861	18.2	196	1.9
1980	2,945	27.8	393	3.7	43	14.6	(NA)	(NA)	(NA)	(NA)
1981	2,949	26.8	385	3.5	30	10.2	(NA)	(NA)	(NA)	(NA)
1982	2,954	26.7	428	3.9	29	9.8	(NA)	(NA)	(NA)	(NA)
1983	3,152	27.1	442	3.8	29	9.2	(NA)	(NA)	(NA)	(NA)
1984	2,994	25.0	409	3.4	26	8.7	(NA)	(NA)	(NA)	(NA)
1985	3,049	24.6	415	3.4	35	11.5	(NA)	(NA)	(NA)	(NA)
1986	3,276	25.8	429	3.4	29	8.9	(NA)	(NA)	(NA)	(NA)
Virgin Islands:										
1960	1,180	36.8	332	10.3	42	35.6	359	11.1	135	4.2
1970	2,698	46.8	469	7.9	72	24.6	1,149	18.4	270	4.3
1975	2,372	25.1	477	5.0	62	26.1	1,064	11.3	353	3.7
1980	2,504	25.9	504	5.2	61	24.4	1,112	11.5	478	4.9
1981	2,442	24.6	547	5.5	55	22.5	1,092	11.0	408	4.1
1982	2,509	24.7	498	4.9	49	19.5	1,311	12.9	335	3.3
1983	2,584	24.9	484	4.7	54	20.9	1,341	12.9	313	3.0
1984	2,432	22.6	471	4.4	55	22.6	1,407	13.1	352	3.3
1985	2,375	21.4	506	4.6	42	17.7	1,448	13.1	363	3.3
1986	2,257	20.6	476	4.3	28	12.4	(NA)	(NA)	(NA)	(NA)

NA Not available. [1] Per 1,000 population. [2] Per 1,000 live births. [3] Includes reported annulments.
[4] Data are incomplete.

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual.

No. 1420. Employment Status, 1980, and Percent Distribution by Family Income Class, 1979, by Area

ITEM	Puerto Rico [1]	Guam	Virgin Islands	American Samoa	Northern Mariana Islands
EMPLOYMENT STATUS, 1980					
Total persons, 16 years old and over	**2,114,673**	**66,773**	**59,310**	**18,319**	**9,599**
In labor force	869,856	44,484	38,082	8,329	6,102
Percent of total	41.1	66.6	64.2	45.5	63.6
Armed Forces	4,137	10,125	84	21	13
Civilian labor force	865,719	34,359	37,998	8,308	6,089
Employed	733,922	32,692	35,652	8,106	5,941
Unemployed	131,797	1,667	2,346	202	148
Percent of civilian labor force	15.2	4.9	6.2	2.4	2.4
Not in labor force	1,244,817	22,289	21,228	9,990	3,497
FAMILY INCOME, 1979					
Families, 1980	**757,645**	**21,780**	**20,855**	**4,287**	**2,652**
Percent distribution, by income class	100.0	100.0	100.0	100.0	100.0
Less than $1,000	11.3	2.1	3.2	6.1	4.4
$1,000–$2,499	12.4	1.7	3.4	4.3	5.9
$2,500–$4,999	19.7	3.7	7.8	14.2	17.8
$5,000–$7,499	17.5	6.6	14.3	16.8	16.1
$7,500–$9,999	10.9	9.8	12.4	12.9	13.7
$10,000–$14,999	13.3	21.1	19.8	18.4	16.9
$15,000–$24,999	10.3	28.4	22.3	16.7	14.7
$25,000 or more	4.6	26.6	16.7	10.7	10.4
Median income [2] (dol.)	**5,923**	**16,203**	**11,914**	**9,615**	**[3] 8,809**

[1] Data based on sample and subject to sampling variability, see Appendix III. [2] For definition of median, see Guide to Tabular Presentation. [3] Excludes those with no income.

Source: U.S. Bureau of the Census, *1980 Census of Population*, vol. 1, chapters C and D. pts 53–57a and unpublished data.

No. 1421. Public Elementary and Secondary Schools, by Areas: 1987

[For school year ending in year shown, unless otherwise indicated]

ITEM	Puerto Rico	American Samoa	Guam	Virgin Islands	ITEM	Puerto Rico	American Samoa	Guam	Virgin Islands
Enrollment, fall	**679,469**	**11,055**	**25,676**	**24,435**	**Staff, fall 1986**	**40,979**	**1,162**	**2,985**	**3,258**
Elementary (kindergarten-grade 8)	503,012	8,133	18,522	17,778	School district staff	389	89	16	245
Secondary (grades 9–12 and post graduates)	176,477	2,922	7,154	6,657	School staff	37,900	782	1,787	2,213
Average daily attendance	**629,922**	**10,559**	**23,409**	**22,814**	Teachers	32,361	623	1,430	1,606
Percent of enrollment	92.7	95.5	91.2	93.4	Other support services staff	2,690	291	1,182	800
					Current expenditures [1] ($1,000)	881,552	19,497	78,278	94,918
					Per pupil [2] (dol.)	1,399	1,846	3,344	4,161

[1] Public elementary and secondary day schools. [2] Annual expenditures per pupil in average daily attendance.

Source: U.S. National Center for Education Statistics, unpublished data.

No. 1422. Federal Direct Payments for Individuals, by Selected Program and Outlying Area: 1987 and 1988

[**In thousands of dollars.** For fiscal years ending **September 30**]

PROGRAM PAYMENTS	1987				1988			
	Puerto Rico	Guam	Virgin Islands	American Samoa	Puerto Rico	Guam	Virgin Islands	American Samoa
Total	**2,847,599**	**70,153**	**79,526**	**10,669**	**2,906,940**	**71,083**	**78,683**	**11,604**
Pell Grants	277,214	2,081	626	248	214,210	1,200	349	94
Medicare: Hospital Insurance	136,933	1,665	3,645	–	142,476	1,733	3,793	–
Supplemental medical insurance	141,778	1,507	2,518	–	159,394	1,694	2,831	–
Social Security: Disability insurance	507,087	1,559	4,386	1,419	520,649	1,674	5,014	1,818
Retirement insurance	883,602	8,005	27,078	3,211	938,310	8,606	29,061	3,424
Survivors insurance	367,637	5,014	8,843	2,783	393,489	5,256	9,563	3,052
Veterans: Pension and disability	247,498	2,971	736	1,184	257,415	3,043	1,373	1,145
Education assistance	4,773	381	30	176	4,342	388	30	152
Federal retirement and disability	141,885	26,914	7,960	1,581	144,967	26,951	8,018	1,819
Food Stamps	[1] 851,094	14,982	19,376	–	[1] 876,959	15,288	14,915	–
Other	139,192	5,074	4,328	67	131,688	5,250	3,736	100

– Represents or rounds to zero. [1] Food stamp program in Puerto Rico was replaced by the Nutritional Assistance Grant Program. Figures shown represent grants to State and local governments, not included in totals.

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year*, annual.

No. 1423. Puerto Rico—Summary: 1960 to 1988

ITEM	Unit	1960	1970	1980	1982	1983	1984	1985	1986	1987	1988
POPULATION											
Total [1]	1,000	2,360	2,722	3,197	3,262	3,265	3,269	3,283	3,276	3,294	(NA)
Persons per family	Number	4.8	4.6	4.3	4.2	4.2	4.1	4.1	4.1	4.1	4.0
EDUCATION [2]											
Enrollment, total	1,000	737.6	925.8	1,028.2	1,044.3	1,064.6	1,069.5	1,055.6	1,075.0	1,047.3	(NA)
Public day school	1,000	573.4	672.3	716.1	711.7	708.7	701.9	692.9	686.9	679.5	672.8
Other public	1,000	76.4	103.9	85.6	95.6	[3] 96.2	[3] 104.7	[3] 997	100.9	87.9	(NA)
Private schools	1,000	63.3	92.3	99.4	102.4	107.8	102.7	107.3	130.4	121.3	117.2
College and university	1,000	24.5	57.3	127.0	134.5	151.9	160.2	155.7	156.8	158.6	155.7
Expenses	Mil. dol	87.4	288.8	818.1	988.9	1,019.5	1,085.7	1,135.8	1,168.8	1,226.4	1,360.4
As percent of GNP	Percent	5.2	6.2	7.4	7.8	7.9	7.7	7.7	7.4	7.2	7.4
Public	Mil. dol	74.1	254.6	612.2	728.6	737.9	782.2	810.2	814.4	847.9	955.0
Private	Mil. dol	13.3	34.2	205.9	260.3	281.6	303.5	325.6	354.4	378.5	405.4
LABOR FORCE [4]											
Total [5]	1,000	625	765	907	918	919	952	964	977	1,013	1,038
Employed [6]	1,000	542	686	753	719	703	743	758	777	834	873
Agriculture [7]	1,000	125	68	40	35	37	40	38	40	35	31
Manufacturing	1,000	81	132	143	134	131	142	138	140	152	157
Trade	1,000	97	128	138	141	136	145	147	149	159	173
Government	1,000	62	106	184	171	170	177	180	180	197	201
Unemployed	1,000	82	79	154	199	216	209	206	200	179	165
Unemployment rate [8]	Rate	13	10	17	22	23	22	21	21	18	16
Compensation of employees	Mil. dol	928.9	2,800.2	7,217.6	7,972.3	8,060.4	8,782.2	9,250.7	9,772.5	10,565.2	11,397.0
Avg. compensation	Dollar	1,711	4,082	9,584	11,088	11,466	11,820	12,204	12,577	12,668	13,055
Salary and wages	Mil. dol	872.0	2,554.5	6,341.0	6,984.2	7,055.8	7,679.9	8,086.0	8,485.5	9,217.3	9,915.4
INCOME [9]											
Personal income:											
Current dollars	Mil. dol	1,374	3,753	10,932	12,688	12,695	13,537	14,330	15,127	15,980	16,986
Constant (1954) dollars	Mil. dol	1,240	2,654	3,947	3,934	3,827	4,035	4,163	4,338	4,531	4,696
Disposable personal income:											
Current dollars	Mil. dol	1,334	3,565	10,333	11,969	11,936	12,775	13,502	14,069	14,935	15,896
Constant (1954) dollars	Mil. dol	1,204	2,521	3,730	3,711	3,598	3,808	3,923	4,035	4,235	4,395
Average family income:											
Current dollars	Dollar	2,818	6,366	14,762	16,367	16,339	16,982	17,933	18,913	19,947	20,628
Constant (1954) dollars	Dollar	2,544	4,503	5,315	5,078	4,927	5,064	5,211	5,424	5,654	5,704
BANKING [10]											
Assets	Mil. dol	705	3,322	10,223	15,605	18,435	19,968	21,209	22,534	26,101	24,660
Debits	Mil. dol	835	2,548	13,399	18,701	24,098	(NA)	(NA)	(NA)	(NA)	(NA)
Personal checking	Mil. dol	(NA)	1,999	11,206	16,640	21,917	(NA)	(NA)	(NA)	(NA)	(NA)
Personal savings	Mil. dol	(NA)	94	423	800	759	(NA)	(NA)	(NA)	(NA)	(NA)
Government accounts	Mil. dol	(NA)	454	1,770	1,261	1,422	(NA)	(NA)	(NA)	(NA)	(NA)
TOURISM [9]											
Number of visitors	1,000	347.4	1,088.4	1,627.3	1,563.7	1,529.8	1,496.4	1,544.9	1,572.6	1,871.3	2,077.0
Visitor expenditures	Mil. dol	58.1	235.4	615.0	699.2	690.8	681.2	722.8	745.7	893.0	1,035.0
Average per visitor	Dollar	167	216	378	447	452	455	468	474	477	498
Net income from tourism	Mil. dol	19.4	89.8	199.3	216.0	219.9	223.9	238.0	247.2	296.2	344.0

NA Not available. [1] 1960, 1970, and 1980 enumerated as of April 1; all other years estimated as of July 1. [2] Enrollment for the first school month. Expenses for school year ending in year shown. [3] Includes adult education. [4] Annual average of monthly figures. For fiscal years. [5] Beginning 1980, for population 16 years old and over; 1960–1970, for population 14 years and over. [6] Includes other employment, not shown separately. [7] Includes forestry and fisheries. [8] Percent unemployed of the labor force. [9] For fiscal years. [10] As of June 30.

Source: Puerto Rico Planning Board, San Juan, PR, *Income and Product*, annual, and *Socioeconomics Statistics*, annual.

No. 1424. Puerto Rico—Employment Status, 1960 to 1988, and by Sex, 1988

[In thousands of persons 14 years old and over except, beginning 1980, 16 years old and over. Annual averages for calendar years of the civilian noninstitutional population]

EMPLOYMENT STATUS	1960	1970	1980	1982	1983	1984	1985	1986	1987	1988		
										Total	Male	Female
Total	**1,368**	**1,743**	**2,116**	**2,216**	**2,251**	**2,273**	**2,293**	**2,303**	**2,310**	**2,321**	**1,077**	**1,244**
In the labor force	635	777	916	912	942	958	969	998	1,019	1,058	660	398
Employed	558	693	758	704	722	759	758	809	848	900	545	355
Working	525	657	712	664	683	719	710	768	804	848	520	328
35 hours or more	[1] 406	569	535	470	498	521	508	579	570	614	390	224
Less than 35 hours	[2] 119	88	177	194	185	198	203	189	235	234	130	104
Not working	33	35	48	40	39	40	47	41	44	52	25	27
Unemployed	77	84	156	208	220	198	211	188	171	158	115	43
Percent	12.1	10.7	17.0	22.8	23.4	20.7	21.8	18.9	16.8	14.9	17.4	10.8
Not in labor force	734	966	1,200	1,303	1,309	1,315	1,324	1,305	1,291	1,263	417	846

[1] 30 hours or more. [2] Less than 30 hours.

Source: Puerto Rico Dept. of Labor and Human Resources, Bureau of Labor Statistics, San Juan, PR.

No. 1425. Puerto Rico—Gross Product by Major Industrial Sector: 1971 to 1988

[In millions of dollars. For fiscal years ending June 30]

ITEM	1971	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Gross product	**5,252**	**7,184**	**11,074**	**12,190**	**12,627**	**12,933**	**14,010**	**14,805**	**15,829**	**17,029**	**18,361**
Agriculture	177	271	394	377	395	396	343	346	338	402	405
Manufacturing	1,334	2,371	5,323	5,786	6,017	6,483	7,266	7,758	8,299	9,532	10,230
Contract construction and mining [1]	485	462	370	410	355	322	306	337	327	409	490
Transportation [2]	482	767	1,235	1,303	1,541	1,467	1,660	1,595	1,766	1,877	2,091
Trade	987	1,377	2,277	2,469	2,471	2,417	2,785	2,933	3,111	3,464	3,743
Finance, insurance, real estate	674	975	1,599	1,711	1,947	2,197	2,363	2,485	2,743	3,011	3,301
Services	552	805	1,316	1,443	1,542	1,620	1,761	1,853	1,991	2,178	2,387
Government	736	1,334	1,896	2,051	1,952	2,029	2,173	2,345	2,444	2,678	2,903
Commonwealth	656	1,145	1,573	1,733	1,675	1,723	1,849	1,995	2,077	2,291	2,485
Municipalities	80	189	323	318	277	306	324	350	367	387	418
Rest of the world	−407	−1,043	−3,406	−3,633	−3,788	−4,055	−4,612	−4,878	−5,441	−6,677	−7,206
Statistical discrepancy	234	−135	70	272	195	57	−35	33	252	157	18

[1] Mining includes only quarries. [2] Includes other public utilities.

Source: Puerto Rico Planning Board, San Juan, PR, *Economic Report of the Governor, 1987-88.*

No. 1426. Puerto Rico—Net Income, by Industrial Origin: 1970 to 1988

[In millions of dollars. For fiscal years ending June 30]

INDUSTRY	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
All industries	**3,668**	**9,213**	**9,947**	**10,350**	**10,640**	**11,534**	**12,149**	**12,961**	**13,993**	**15,152**
Agriculture	178	466	430	460	422	395	388	385	452	459
Manufacturing	958	4,809	5,220	5,406	5,735	6,485	6,984	7,631	8,785	9,433
Chemicals and allied products	109	1,583	1,786	1,908	2,269	2,341	2,686	2,958	3,737	4,181
Metal products and machinery	192	1,454	1,721	1,828	1,753	2,164	2,294	2,544	2,667	2,745
Food and related products	161	549	645	682	565	754	834	896	1,083	1,152
Apparel and related products	172	361	374	375	408	452	406	410	421	459
Other manufacturing	324	863	694	613	740	774	764	823	877	896
Mining	7	9	9	9	297	293	320	308	383	459
Contract construction	338	339	377	320						
Transp. and other public utilities [1]	342	1,003	1,063	1,213	1,192	1,263	1,197	1,351	1,492	1,634
Trade	631	1,621	1,743	1,770	1,748	2,011	2,097	2,237	2,405	2,590
Finance, insurance, and real estate	504	1,346	1,432	1,663	1,872	1,997	2,071	2,298	2,567	2,806
Services	448	1,130	1,255	1,344	1,400	1,531	1,625	1,749	1,909	2,074
Commonwealth Government [2]	610	1,896	2,051	1,952	2,029	2,173	2,345	2,444	2,678	2,903
Rest of the world	−347	−3,406	−3,633	−3,788	−4,055	−4,612	−4,878	−5,441	−6,677	−7,206

[1] Includes radio and television. [2] Includes public enterprises, not elsewhere classified.

Source: Puerto Rico Planning Board, San Juan, PR, *Economic Report of the Governor, 1987-88.*

No. 1427. Puerto Rico—Transfers Between Federal and State Governments and Other Nonresidents: 1971 to 1988

[In million of dollars. For fiscal years ending June 30]

ITEM	1971	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total receipts	**400**	**1,229**	**2,574**	**2,787**	**3,157**	**3,221**	**3,402**	**3,540**	**3,789**	**3,845**	**4,016**
Federal government	378	1,184	2,447	2,681	3,003	3,023	3,173	3,357	3,625	3,638	3,782
Transfers to individuals [1]	355	1,141	2,369	2,608	2,915	2,933	3,090	3,263	3,553	3,540	3,674
Veterans benefits	83	178	223	231	274	289	303	324	336	342	359
Medicare	24	41	118	137	163	184	186	220	385	273	292
Old age, disability, survivors	227	468	1,041	1,191	1,348	1,423	1,528	1,581	1,658	1,743	1,816
Nutritional assistance	(x)	388	812	860	896	775	765	780	791	804	822
Industry subsidies	19	31	56	48	58	56	55	61	37	62	71
Private institutions	4	12	21	25	29	34	28	33	35	37	37
U.S. State governments	8	19	13	16	15	15	16	17	15	15	16
Other nonresidents	15	25	114	90	140	183	213	166	149	192	218
Total payments	**270**	**597**	**848**	**924**	**961**	**986**	**1,113**	**1,180**	**1,273**	**1,339**	**1,469**
Federal government [1]	270	592	841	914	950	973	1,087	1,145	1,255	1,326	1,460
Old age, disability, survivors	199	364	649	689	700	708	794	846	896	986	1,091
Medicare	6	10	21	25	31	38	45	44	47	53	70
Unemployment insurance	40	79	129	146	165	167	183	188	240	213	223
Other nonresidents	(z)	5	7	9	10	13	26	35	18	13	9
Net balance	130	631	1,726	1,864	2,196	2,236	2,289	2,360	2,517	2,507	2,547

X Not applicable. Z Less than $500,000. [1] Includes other receipts and payments, not shown separately.

Source: Puerto Rico Planning Board, San Juan, PR, *Economic Report of the Governor, 1987-88.*

No. 1428. Puerto Rico—Employees and Payroll, by Industry: 1980 to 1986

[Excludes employees of establishments totally exempt from the Federal Insurance Contributions Act: government workers, railroad employment jointly covered by Social Security and railroad retirement programs, self-employed persons, domestic service, agriculture production employees, and employees on oceanborne vessels or in foreign countries]

SIC [1] code	INDUSTRY	EMPLOYEES [2]				ANNUAL PAYROLL (mil. dol.)			
		1980	1984	1985	1986	1980	1984	1985	1986
	Total [3]	**438,875**	**434,442**	**442,029**	**454,264**	**3,741.9**	**4,514.1**	**4,880.6**	**5,322.1**
A	Agricultural services, forestry, fisheries	532	460	566	434	5.7	5.3	4.1	3.6
07	Agricultural services	378	396	486	352	2.4	3.4	2.4	2.1
B	Mining	800	496	655	564	8.6	6.3	7.3	7.1
14	Nonmetallic minerals, except fuels	656	420	485	420	5.6	3.8	4.6	4.5
C	Contract construction [3]	36,487	23,872	23,708	22,454	281.5	214.2	214.7	220.4
15	General contractors and operative builders	21,605	13,878	13,887	13,235	159.0	120.4	123.2	126.5
17	Special trade contractors	9,679	7,072	6,778	6,669	74.5	65.7	64.8	63.7
D	Manufacturing [3]	154,621	144,430	141,350	140,782	1,401.7	1,713.0	1,792.4	1,897.1
20	Food and kindred products	19,357	17,856	19,811	18,364	179.4	212.7	234.8	258.0
23	Apparel and other textile products	35,843	31,938	27,516	29,474	215.2	222.2	208.2	242.0
28	Chemical and allied products	16,082	18,940	19,637	19,537	217.0	342.9	396.1	407.0
35	Machinery, except electrical	6,766	9,912	8,205	7,263	72.9	135.7	121.0	110.5
36	Electric and electronic equipment	18,525	21,535	21,883	21,332	182.2	268.7	272.3	297.1
E	Transportation and other public utilities [3]	19,876	19,489	20,787	20,366	227.0	283.3	339.4	365.0
42	Trucking and warehousing	2,563	2,057	1,890	1,906	21.8	19.3	19.2	19.3
47	Transportation services	1,711	1,242	1,569	1,436	13.5	14.5	19.3	16.8
F	Wholesale trade [3]	28,764	28,014	28,346	29,640	331.2	392.8	395.8	444.0
50	Wholesale trade-durable goods	13,465	12,146	11,923	12,268	157.2	174.6	173.8	188.1
51	Wholesale trade-nondurable goods	15,013	15,349	15,957	16,830	169.3	207.1	212.6	243.4
G	Retail trade [3]	79,169	77,966	80,249	82,665	531.8	607.1	652.3	680.7
54	Food stores	16,367	15,839	16,180	15,994	96.4	103.2	110.6	115.7
55	Automotive dealers and service stations	9,187	7,492	7,598	8,014	68.2	65.5	75.2	78.9
56	Apparel and accessory stores	9,998	9,886	10,238	10,884	65.6	74.2	76.9	82.4
58	Eating and drinking places	11,034	14,682	13,428	14,914	64.5	87.7	94.6	93.3
59	Miscellaneous retail	9,146	11,090	11,052	10,906	58.0	82.0	89.4	97.9
H	Finance, insurance, and real estate [3]	25,135	29,152	28,065	30,540	250.2	373.4	379.3	458.8
60	Banking	8,017	11,052	9,474	10,361	81.5	151.2	124.1	171.9
61	Credit agencies other than banks	6,847	7,353	7,239	8,308	63.2	78.5	92.6	108.4
65	Real estate	3,755	3,340	4,433	4,182	25.7	29.7	38.6	39.3
I	Services [3]	79,573	86,763	88,553	94,090	601.8	740.1	821.7	945.6
72	Personal services	3,199	2,603	2,655	2,780	18.2	18.5	20.6	21.6
73	Business services	15,268	18,106	18,243	20,186	120.9	164.1	167.5	202.1
75	Auto repair, services, and garages	2,610	2,351	2,298	2,328	18.1	20.6	24.3	24.1
80	Health services	18,063	20,920	22,252	22,444	129.5	167.2	200.1	208.1
81	Legal services	2,328	2,677	2,711	2,722	27.3	28.5	32.3	36.0

[1] Standard Industrial Classification (SIC) code; see text, section 13. [2] For the pay period including March 12.
[3] Includes other nonclassifiable establishments, not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns*, annual.

No. 1429. Puerto Rico—Manufactures, by Industry: 1977 and 1982

[Money figures in millions of dollars. For employer establishments only]

INDUSTRY (Based on 1972 Standard Industrial Classification System) [1]	1977			1982						
	Establishments	All employees [2]	Value added by manufacture [3]	Establishments	All employees		Production workers [4]		Value added by manufacture [3]	Value of shipments [5]
					Number [2]	Payroll	Number [2]	Wages		
All Industries	**2,297**	**146,861**	**4,097.2**	**2,285**	**143,218**	**1,573.0**	**110,343**	**1,035.6**	**8,605.6**	**15,906.4**
Food and kindred products	324	21,407	485.6	333	18,621	213.8	13,633	128.4	965.5	2,383.1
Tobacco manufacturers	17	3,670	122.0	14	(D)	(D)	(D)	(D)	(D)	(D)
Textile mill products	63	6,001	108.9	29	2,840	21.8	2,347	17.1	66.5	103.3
Apparel and other textile products	386	35,294	278.9	341	31,764	229.7	28,615	192.3	510.1	964.4
Lumber and wood products	83	823	9.1	82	603	4.6	230	1.8	9.0	24.0
Furniture and fixtures	124	2,383	26.1	122	2,195	16.6	1,410	9.6	49.8	98.5
Paper and allied products	38	1,459	21.7	41	1,469	15.3	1,084	8.2	46.5	120.7
Printing and publishing	161	4,037	68.9	154	2,861	39.7	1,597	18.4	109.0	173.9
Chemicals and allied products	181	15,732	1,476.5	183	17,225	287.4	11,553	157.0	3,713.9	5,287.1
Petroleum and coal products	19	2,462	143.4	16	(D)	(D)	(D)	(D)	(D)	(D)
Rubber and misc. plastic products	77	5,961	147.6	83	4,496	45.3	3,457	32.7	157.7	282.0
Leather and leather products	47	6,165	55.7	47	6,019	48.0	5,340	40.0	108.3	229.3
Stone, clay, and glass products	175	4,987	102.7	171	4,390	41.4	2,868	24.3	133.5	283.3
Primary metal industries	35	1,567	48.5	34	683	6.8	457	3.4	14.8	44.0
Fabricated metal products	199	4,654	84.2	162	3,553	42.1	2,445	27.4	115.7	288.8
Machinery, exc. electrical	57	4,071	161.2	88	6,722	87.3	5,094	56.1	542.2	975.0
Electric and electronic equipment	131	14,785	403.1	181	21,682	248.1	16,758	173.7	1,139.6	1,986.0
Transportation equipment	26	1,127	28.1	28	909	9.1	765	7.3	32.1	56.5
Instruments and related products	69	6,789	257.3	89	10,865	130.1	8,574	89.4	616.4	925.8
Misc. manufacturing industries	85	3,487	67.8	87	3,373	37.8	2,446	24.9	92.6	216.3

D Withheld to avoid disclosure. [1] See text, section 13. [2] Average for year. [3] See footnote 6, table 1295. [4] For establishments with 10 or more employees. [5] Represents net selling value, f.o.b. plant. Excludes freight charges and excise taxes. Includes extensive duplication arising from shipments between establishments in the same industry.

Source: U.S. Bureau of the Census, *Censuses of Outlying Areas, Manufactures, 1982, Puerto Rico*, series OAC82-4.

No. 1430. Puerto Rico—Construction Summary: 1977 and 1982

[Money figures in millions of dollars. Employer establishments only]

INDUSTRY (Based on 1972 Standard Industrial Classification System) [1]	1977			1982				
	Establishment	Employees [2]	Total receipts [3]	Establishments	Total receipts [3]	Payroll entire year	Employees [2]	Value added [4]
Construction [5]	**1,692**	**36,154**	**931**	**1,394**	**1,190**	**224**	**29,228**	**468**
General building contractors and operative builders	777	20,281	555	494	606	107	14,620	185
General contractors, residential buildings	576	9,847	(D)	319	(S)	(S)	7,265	(S)
Single-family houses	548	8,256	162	286	(S)	(S)	4,973	(S)
Operative builders	70	3,109	145	48	(S)	(S)	2,237	(D)
General contractors, nonresidential buildings	131	7,325	(D)	127	167	40	5,118	76
Heavy construction, general contractors	156	5,164	151	173	238	44	4,970	(D)
Special trade contractors [5]	705	9,515	202	706	334	72	9,534	154
Plumbing, heating, air-conditioning	132	1,361	39	125	70	16	1,704	28
Painting, paper hanging, decorating	52	585	(D)	42	(S)	(S)	589	(S)
Electrical work	134	2,163	51	162	92	21	2,443	43
Concrete work	45	922	19	63	36	7	1,200	14
Subdividers and developers, n.e.c. [6]	54	1,194	23	21	12	1	104	(D)

D Withheld to avoid disclosures. S Withheld because estimates did not meet publication standards on the basis of either response rate or a consistency review. [1] See text, section 13. [2] Average for year. [3] Total business receipts. [4] All business receipts less payments for materials, components, supplies, and fuels, and for construction work subcontracted to others. [5] Includes industries not shown separately. [6] N.e.c. means not elsewhere classified.

Source: U.S. Bureau of the Census, *Censuses of Outlying Areas, 1977* and *1982 Construction Industries, Puerto Rico,* series OAC77-3 (revised), and OAC 82-3.

No. 1431. Puerto Rico—Merchandise Imports and Exports: 1970 to 1988

[In millions of dollars]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Imports	2,681	4,885	6,200	6,918	7,834	9,018	9,329	8,167	8,708	10,116	10,162	10,321	11,308	13,096
From U.S.	2,070	3,029	3,552	4,391	4,788	5,345	5,801	5,300	5,162	5,738	6,130	6,467	7,307	8,788
From other	611	1,856	2,649	2,527	3,046	3,673	3,528	2,867	3,546	4,378	4,032	3,854	4,001	4,308
Exports	1,680	3,000	4,516	5,123	6,539	6,576	7,047	8,888	8,242	9,426	11,087	11,854	12,508	14,436
To U.S.	1,563	2,633	4,009	4,499	5,720	5,643	6,024	7,624	6,936	8,074	9,873	10,524	11,153	12,756
To other	117	367	507	624	819	933	1,023	1,264	1,306	1,352	1,214	1,330	1,355	1,680

Source: U.S. Bureau of the Census, *Foreign Commerce and Navigation of the United States,* annual; *U.S. Trade with Puerto Rico and U.S. Possessions, FT 800;* and *Highlights of U.S. Export and Import Trade, FT990.*

No. 1432. Puerto Rico, Guam, and Virgin Islands—Government Summary: 1982

ITEM	Unit	Puerto Rico		Guam	Virgin Islands
		Commonwealth	Municipio [1]		
Number of governments	Number	1	78	1	1
Gross assessed value [2]	Mil. dol	7,705.8	7,705.8	711.4	2,165.5
Real property	Mil. dol	5,118.9	5,118.9	711.4	2,165.5
Personal property	Mil. dol	2,586.9	2,586.9	-	-
Employment, total	Number	185,000	37,500	10,327	12,985
Rate [3] [4]	Number	579	117	974	1,345
Full-time employees	Number	(NA)	(NA)	9,393	12,657
Full-time equivalent	Number	(NA)	(NA)	9,730	12,759
October payrolls total	$1,000	98,200	21,700	12,829	14,127
Average October earnings:					
Full-time employees	Dollars	(NA)	(NA)	1,317	1,105
Instructional employees	Dollars	(NA)	(NA)	1,531	1,410
Other	Dollars	(NA)	(NA)	1,277	1,049
Revenue, total	Mil. dol	5,877.5	346.9	278.6	665.2
Per capita [4]	Dollar	1,839	109	2,629	6,889
Intergovernmental	Mil. dol	1,184.1	58.0	61.0	320.9
Taxes	Mil. dol	1,940.2	289.0	118.9	187.0
Utility	Mil. dol	1,316.7	(NA)	61.0	61.8
Other	Mil. dol	1,436.6	-	37.7	95.6
Expenditure, total	Mil. dol	5,695.6	305.1	450.6	668.6
Per capita [4]	Dollar	1,782	91	4,252	6,923
Current operations	Mil. dol	1,813.4	279.9	373.1	531.3
Capital outlay	Mil. dol	518.5	(NA)	50.4	68.8
Other	Mil. dol	3,363.7	25.2	27.2	68.4

- Represents zero. NA Not available. [1] Classified as county governments for census statistics on governments. [2] For 1981. [3] Per 10,000 population. [4] Based on enumerated population as of April 1, 1980.

Source: U.S. Bureau of the Census, *1982 Census of Governments, Vol. 6, No. 2, Puerto Rico, Virgin Islands, and Guam* (GC82(6)-2).

No. 1433. Puerto Rico, Guam, and Virgin Islands—Agriculture: 1982 and 1987

[1 cuerda=.97 acre. Tons specified are short tons]

ITEM	1982	1987	ITEM	1982	1987	ITEM	AMOUNT HARVESTED [1] Unit	1982	1987	SALES ($1,000) 1982	1987
Puerto Rico											
Farms	21,820	20,245	Tenure of operator: Percent—			Dairy products	(x)	(x)	(x)	152,126	157,864
Percent—						Poultry [2]	(x)	(x)	(x)	45,945	70,560
Less than 10 cuerdas	45.1	48.7	Full-owners	79.3	77.5	Coffee	1,000 cwt.[3]	243.9	246.2	39,302	41,786
10 to 19 cuerdas	20.9	19.5	Part-owners	11.5	13.1	Cattle and calves	(x)	(x)	(x)	28,579	30,206
20 to 49 cuerdas	18.0	16.7	Managers	1.8	2.3	Sugarcane	1,000 tons	1,462	1,170	26,663	26,643
50 to 99 cuerdas	7.1	6.7	Tenants	7.4	7.1	Fruits/nuts	(x)	(x)	(x)	14,060	20,645
100 to 174 cuerdas	3.9	3.7	Avg. cuerda size—			Pineapples	Tons	44	69	9,534	15,495
175 or more cuerdas	5.0	4.7	Full-owners	31.1	30.6	Hogs	(x)	(x)	(x)	6,903	9,525
Cuerdas in farms	982,457	886,846	Part-owners	99.3	85.7	Vegetables	Cuerdas	6,669	6,179	9,547	8,236
			Managers	122.8	128.0						
			Tenants	90.9	84.0						
Guam											
Farms	297	351	Tenure of operator: Percent—			Chicken eggs	(x)	(x)	(x)	791.9	651.1
Percent—						Fish	(x)	(x)	(x)	121.3	235.0
Less than 1 acre	9.4	6.3	Full-owners	62.0	64.1	Cucumbers	1,000 lbs.	623.3	587.1	217.8	233.5
1 to 2 acres	36.0	35.9	Permittees	21.9	20.5	Green beans	1,000 lbs.	116.5	303.8	81.7	230.2
3 to 7 acres	28.6	29.1	Tenants	9.1	4.3	Watermelons	1,000 lbs.	400.3	632.6	115.6	178.6
8 or more acres	26.0	28.8	Part-owners	5.1	4.6	Tomatoes	1,000 lbs.	88.0	142.7	64.3	108.6
Acres in farms	17,787	13,134	Nonpermittees	1.3	6.0	Hogs and pigs	(x)	(x)	(x)	117.0	106.4
			Others	.7	.6						
Virgin Islands											
Farms	259	267	Tenure of operator: Percent—			Milk	(x)	(x)	(x)	922.8	1,042.7
Percent—						Cattle and calves	(x)	(x)	(x)	488.6	613.4
Less than 3 acres	29.0	30.0	Full-owners	79.9	75.3	Hogs and pigs	(x)	(x)	(x)	130.0	125.2
3 to 9 acres	34.7	30.3	Part-owners	10.4	13.5	Tomatoes	Acres	8	16	33.7	113.7
10 to 19 acres	9.3	12.0	Tenants	9.3	8.6	Lettuce	Acres	2	8	7.8	49.5
20 or more acres	27.0	27.7	Managers	.4	2.6	Mangoes	1,000	205.4	171.1	(D)	44.0
Acres in farms	17,778	17,785				Poultry [2]	(x)	(x)	(x)	315.6	16.8

D Withheld to avoid disclosure of information pertaining to a specific organization or individual. NA Not available. X Not applicable. [1] Includes amounts not sold. [2] Includes poultry products. [3] Cwt=hundredweight (100 lbs.).

Source: U.S. Bureau of the Census, *1987 Census of Agriculture*, vol. 1, parts 52, 53, and 54.

No. 1434. Guam, Virgin Islands, and Northern Mariana Islands—Economic Summary: 1987

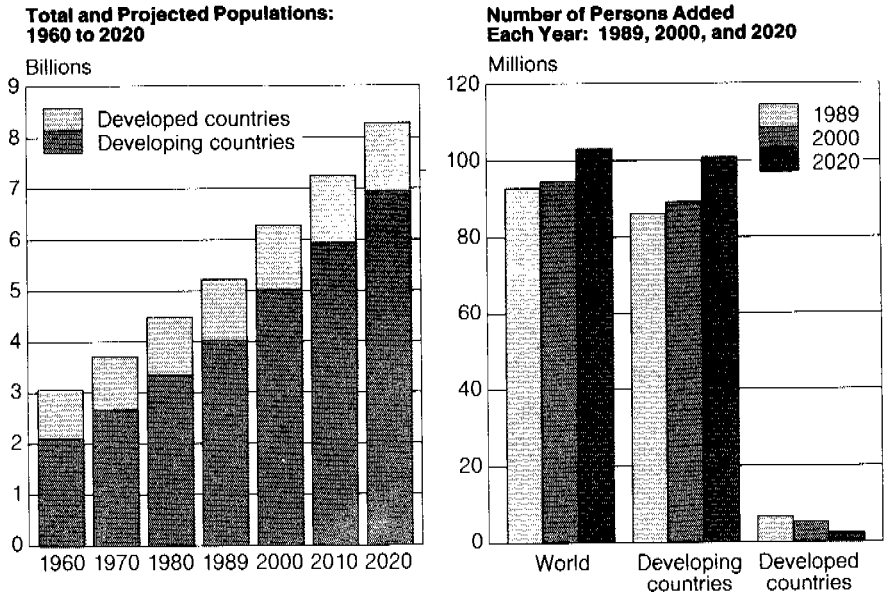
[Sales and payroll in millions of dollars]

ITEM	Guam	Virgin Islands	No. Mariana Islands	ITEM	Guam	Virgin Islands	No. Mariana Islands
Total: Establishments	1,490	2,604	768	**Wholesale trade:**			
Sales	1,510	(D)	374	Establishments	94	84	28
Annual payroll	221	255	57	Sales	245	211	50
Paid employees [1]	18,582	20,709	9,090	Annual payroll	19	20	2
Unpaid family workers [2]	371	209	167	Paid employees [1]	1,392	1,322	187
Construction: Establishments	79	92	72	Unpaid family workers [2]	6	2	-
Sales	127	124	43	**Retail trade:**			
Annual payroll	35	29	12	Establishments	804	1,311	383
Paid employees [1]	2,705	2,170	2,061	Sales	786	703	155
Unpaid family workers [2]	1	3	6	Annual payroll	79	85	14
Manufacturing:				Paid employees [1]	7,344	8,529	2,304
Establishments	38	66	39	Unpaid family workers [2]	273	168	126
Sales	81	(D)	58	**Services:** Establishments	475	1,051	246
Annual payroll	17	44	14	Sales	271	296	67
Paid employees [1]	1,320	2,102	2,257	Annual payroll	71	76	16
Unpaid family workers [2]	1	-	3	Paid employees [1]	5,821	6,586	2,281
				Unpaid family workers [2]	90	36	32

- Represents zero. D Withheld to avoid disclosure of information pertaining to a specific organization or individual.
[1] For pay period including March 12. [2] Includes those who worked 15 hours or more during the week including March 12.

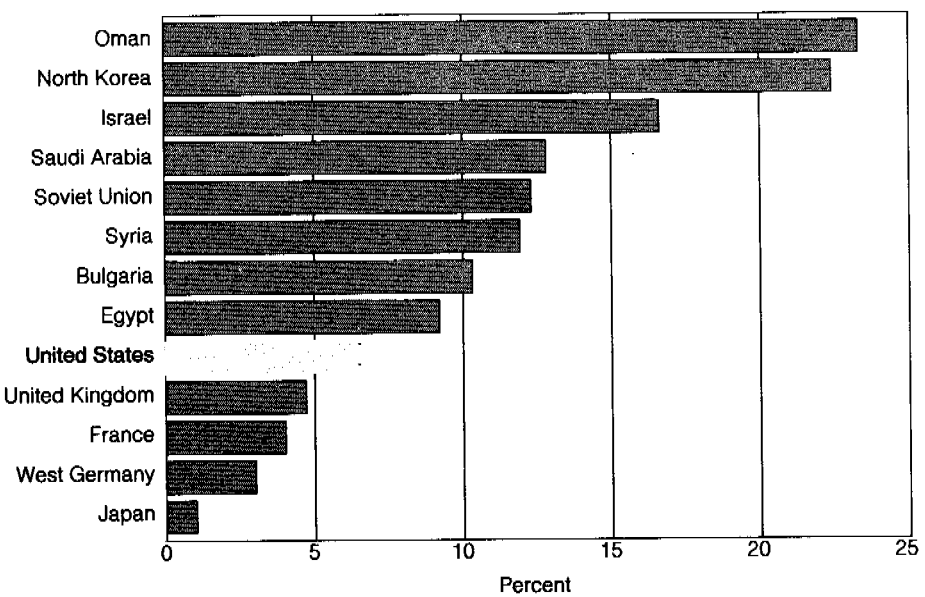
Source: U.S. Bureau of the Census, *1987 Economic Census of Outlying Areas*, OAC 87-5 to OAC 87-7.

Figure 31.1
World Population, by Development Category



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1438.

Figure 31.2
Military Expenditures as a Percentage of Gross National Product, by Selected Countries: 1987



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1486.

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Section 31

Comparative International Statistics

This section presents statistics for the world as a whole and for many countries on a comparative basis with the United States. Selected data are shown for area and population, births and deaths, social and industrial indicators, finances, agriculture, communication, and military affairs.

Statistics of the individual nations may be found primarily in official national publications, generally in the form of yearbooks, issued by most of the nations at various intervals in their own national languages, expressed in their own or customary units of measure. (For a listing of selected publications, see Guide to Sources.) For handier reference, especially for international comparisons, the Statistical Office of the United Nations compiles data as submitted by member countries and issues a number of international summary publications, generally in English and French. Among these are the *Statistical Yearbook;* the *Demographic Yearbook;* the *Yearbook of International Trade Statistics;* the *Yearbook of National Accounts Statistics: Vol. II, International Tables; Population and Vital Statistics Reports* (quarterly); the *Monthly Bulletin of Statistics;* and *Energy Statistics Yearbook.* Specialized agencies of the United Nations also issue international summary publications on agricultural, labor, health, and education statistics. Among these are the *Production Yearbook* and *Trade Yearbook* issued by the Food and Agriculture Organization, the *Yearbook of Labour Statistics* issued by the International Labour Office, *World Health Statistics* issued by the World Health Organization, and the *Statistical Yearbook* issued by the Educational, Scientific, and Cultural Organization.

The Bureau of the Census, in *Country Demographic Profiles,* series ISP-30, presents data on individual countries for both a recent census year and the current period; and in the *World Population Profile* series, estimates of basic demographic measures for countries and regions of the world. The *International Population Statistics Reports,* series P-90 and P-91, issued by the Bureau of the Census, also present population figures for many foreign countries. Detailed population statistics are also available from the Bureau of the Census' computerized data system, the International Data Base.

The U.S. Arms Control and Disarmament Agency and the International Monetary Fund (IMF) also compile data on international statistics. In its *World Military Expenditures and Arms Transfers,* published annually, the Arms Control and Disarmament Agency presents data on various economic indicators, as well as basic military data. Among the topics presented have been military expenditures, gross national product, imports and exports, and armed forces, by region and/or country. The IMF publishes a series of reports relating to financial data. These include *International Financial Statistics, Direction of Trade,* and *Balance of Payments Yearbook,* published in English, French, and Spanish.

Statistical coverage, country names, and classifications.—Problems of space and availability of data limit the number of countries and the extent of statistical coverage shown. The list of countries included is based almost entirely on a list of sovereign nations, dependencies, and areas of special sovereignty published by the U.S. Department of State in *Status of the World's Nations.* Country names are shown here as specified in that publication. In the few cases where a lack of comparability exists between State Department and United Nations' terminology, the State Department's preferences are used.

The countries and regions in table 1437 are classified as either "more developed" or "less developed," according to a *regional* classification system used by the Census Bureau in its *World Population: 1983.* The system is based on the assumption that, within regions, levels of such factors as industrial development, literacy rate, gross reproduction rate, per capita income, etc., are somewhat constant. "More developed" countries comprise Japan, Australia, New Zealand, the Soviet Union, and those countries in Northern America and Europe. All others are "less developed".

The population estimates and projections used in tables 1437-1440 were prepared by the Census Bureau. For each country, the data on population, by age and sex, fertility, mortality, and interna-

tional migration were evaluated, and, where necessary, adjusted for inconsistencies and errors in the data. In most instances, comprehensive projections were made by the component method, resulting in distributions of the population by age and sex, and requiring an assessment of probable future trends of fertility, mortality, and international migration.

Economic associations.—The Organization for European Economic Co-operation (OEEC), a regional grouping of Western European countries established in 1948 for the purpose of harmonizing national economic policies and conditions, was succeeded on September 30, 1961, by the Organization for Economic Cooperation and Development (OECD). The member nations of the OECD are Australia, Austria, Belgium, Canada, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Japan, Luxembourg, the Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, the United States, and West Germany, plus Yugoslavia in special status category.

Quality and comparability of the data.—The quality and comparability of the data presented here are affected by a number of factors:

(1) The year for which data are presented may not be the same for all subjects for a particular country, or for a given subject for different countries, though the data shown are the most recent available. All such variations have been noted. The data shown are for calendar years except as otherwise specified.

(2) The bases, methods of estimating, methods of data collection, extent of coverage, precision of definition, scope of territory, and margins of error may vary for different items within a particular country, and for like items for different countries. Footnotes and headnotes to the tables give a few of the major time-period and coverage qualifications attached to the figures; considerably more detail is presented in the source publications. Many of the measures shown are, at best, merely rough indicators of magnitude.

(3) Figures shown in this section for the United States may not always agree with figures shown in the preceding sections. Disagreements may be attributable to the use of differing original sources, a difference in the definition of geographic limits (the 50 States, conterminous United States only, or the United States including certain outlying areas and possessions), or to possible adjustments made in the United States figures by the United Nations or other sources in order to make them more comparable with figures from other countries.

International comparisons of national accounts data.—In order to compare national accounts data for different countries, it is necessary to convert each country's data into a common unit of currency, usually the U.S. dollar. The market exchange rates which are often used in converting national currencies do not necessarily reflect the relative purchasing power in the various countries. For example, using table 1447, it should not be concluded that the United Kingdom's individual standard of living in 1987 was only 64 percent of that of the U.S., as the statistics may imply. It is obviously necessary that the goods and services produced in different countries should be valued consistently if the differences observed are meant to reflect real differences in the volumes of goods and services produced. The use of purchasing power parities (see table 1448) instead of exchange rates is intended to achieve this objective.

The method used to present the data shown in table 1448 is to construct volume measures directly by revaluing the goods and services sold in different countries at a common set of international prices. By dividing the ratio of the gross domestic products of two countries expressed in their own national currencies by the corresponding ratio calculated at constant international prices, it is possible to derive the implied purchasing power parity (PPP) between the two currencies concerned. PPP's show how many units of currency are needed in one country to buy the same amount of goods and services which one unit of currency will buy in the other country. For further information, see *National Accounts, Main Aggregates,* volume I, issued annually by the Organization for Economic Cooperation and Development, Paris, France.

International Standard Industrial Classification.—The original version of the International Standard Industrial classification of All Economic Activities (ISIC) was adopted in 1948. Wide use has been made both nationally and internationally in classifying data according to kind of economic activity in the fields of production, employment, national income, and other economic statistics. A number of countries have utilised the ISIC as the basis for devising their industrial classification scheme. Substantial comparability has been attained between the industrial classifications of many other countries, including the United States, and the ISIC by ensuring, as far as practicable, that the categories at detailed levels of classification in national schemes fitted into only one category of the ISIC. For more detail, see Bureau of the Census, *The International Standard Industrial Classification and the U.S. Standard Industrial Classification,* Technical Paper No. 14 and text, section 27. The United Nations, the International Labour Organisation, the Food and Agriculture Organization, and other international bodies have utilised the ISIC in publishing and analyzing statistical data. Revisions of the ISIC were issued in 1958, 1968, and 1989.

No. 1435. World Summary: 1970 to 1987

[See text, section 31, for general comments concerning quality of the data]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987
Population	**Millions**	**3,678**	**4,033**	**4,453**	**4,528**	**4,607**	**4,684**	**4,760**	**4,854**	**4,938**	**5,024**
Agriculture, forestry, and fishing:											
Barley	Mil. metric tons	126	140	160	152	164	162	173	177	182	181
Coffee	Mil. metric tons	3.9	4.7	4.8	6.0	5.1	5.7	5.1	5.8	5.2	6.2
Corn	Mil. metric tons	278	346	396	450	450	348	453	488	485	459
Cotton (lint)	Mil. metric tons	11.8	12.3	13.9	15.3	14.8	14.3	18.3	17.4	15.1	16.6
Meats	Mil. metric tons	(NA)	(NA)	134	136	137	142	146	151	156	160
Peanuts (groundnuts)	Mil. metric tons	18.5	19.7	17.1	20.5	18.1	19.0	20.2	20.0	21.0	21.4
Potatoes	Mil. metric tons	288	259	264	289	288	265	292	283	290	284
Rice	Mil. metric tons	316	358	399	412	424	452	470	473	473	465
Tobacco	Mil. metric tons	4.7	5.4	5.3	6.0	6.9	5.9	6.5	7.0	6.1	6.2
Wheat	Mil. metric tons	318	360	446	456	483	494	518	506	538	516
Wool, greasy	Mil. metric tons	(NA)	(NA)	2.8	2.8	2.8	2.9	2.9	2.9	3.0	3.0
Roundwood	Mil. cubic meters	2,614	2,598	2,942	2,945	2,941	3,038	3,126	3,158	3,254	3,352
Fish catches	Mil. metric tons	68.0	68.7	72.0	74.8	76.6	77.4	83.5	86.0	92.4	92.7
Industrial production:											
Wine	Mil. metric tons	(NA)	(NA)	35.4	31.6	37.3	35.0	32.4	29.3	33.4	(NA)
Sugar	Mil. metric tons	72.9	81.5	84.0	92.8	102.2	97.4	99.9	98.8	101.5	103.0
Wheat flour	Mil. metric tons	121.2	125.2	137.2	139.7	139.7	200.0	207.0	211.5	217.9	(NA)
Coal	Mil. metric tons	2,143	2,364	2,728	2,728	2,828	2,831	2,967	3,161	3,248	3,334
Lignite and brown coal	Mil. metric tons	793	863	1,005	1,034	1,069	1,130	1,186	1,202	1,221	1,239
Crude petroleum [1]	Bil. bbl	16.5	19.3	21.7	20.3	19.3	19.2	19.7	19.4	20.4	20.5
Natural gas (dry) [1]	Trl. cu. ft	37.5	44.1	53.1	54.6	54.1	54.6	59.7	62.0	63.3	67.3
Electricity	Bil. kWh	4,962	6,527	8,247	8,384	8,476	8,824	9,310	9,747	10,832	10,467
Iron ore	Mil. metric tons	421	523	743	900	816	740	835	858	868	883
Pig iron and ferroalloys	Mil. metric tons	440	489	531	519	472	463	496	507	496	503
Tin [2]	1,000 metric tons	184	178	227	229	214	195	196	196	196	195
Crude steel	Mil. metric tons	594	644	704	695	629	663	710	685	671	682
Cement	Mil. metric tons	(NA)	(NA)	867	868	866	888	889	945	998	1,033
Non-cellulosic fibers [2]	Mil. metric tons	4.9	7.4	10.5	10.8	10.1	10.7	11.5	11.7	11.9	11.1
Sawnwood	Mil. cubic meters	413	402	438	419	421	441	461	462	478	499
Woodpulp	Mil. metric tons	97.2	97.9	121.1	120.6	115.3	123.9	130.9	131.2	136.3	133.9
Newsprint	Mil. metric tons	21.6	21.0	26.1	27.3	25.8	26.0	27.8	28.3	29.3	30.7
Merchant vessels, launched [2]	Mil. gross tons	21.7	35.9	13.9	17.1	17.3	14.9	17.7	17.3	14.9	9.6
Motor vehicles	Millions	29.3	33.0	38.9	37.5	36.4	39.9	42.0	43.9	44.2	(NA)
External trade:											
Imports, c.i.f.	Bil. U.S. dollars	329	902	2,057	2,322	1,905	1,875	1,982	2,027	2,215	2,582
Exports, f.o.b.	Bil. U.S. dollars	314	874	1,995	2,215	1,831	1,807	1,900	1,925	2,127	2,486
Transport:											
Railway freight	Bil. metric ton-km	5,027	6,015	6,754	6,810	6,635	6,855	7,138	7,285	(NA)	(NA)
Merchant shipping, freight [3]	Mil. metric tons	(NA)	(NA)	3,676	3,500	3,290	3,290	3,410	3,362	(NA)	(NA)
Civil aviation, kilometers flown [4]	Millions	4,353	4,670	9,440	9,030	9,010	9,320	9,950	10,420	(NA)	(NA)

NA Not available. [1] Source: U.S. Energy Information Administration, *International Energy Annual*, and *Monthly Energy Review*. [2] Excludes China: Mainland. Tin and merchant vessels exclude Soviet Union. For other exclusions, see source. [3] Freight loaded. [4] Scheduled services of members of International Civil Aviation Organization. Excludes Soviet Union.

Source: Except as noted, Statistical Office of the United Nations, New York, NY, *Monthly Bulletin of Statistics*. (Copyright.)

No. 1436. World Population, 1980 and 1989, and Area, 1989, by Size of Country

[Covers only countries listed in table 1438. See headnote, table 1438]

POPULATION CLASS IN 1989	POPULATION, 1980		1989					
			Countries		Population		Area	
	Total (mil.)	Percent of total	Total number	Percent of total	Total (mil.)	Percent of total	Total (1,000 sq. mi.)	Percent of total
Total	**4,477**	**100.0**	**208**	**100.0**	**5,239**	**100.0**	**52,449**	**100.0**
Under 1 million	13	.3	75	36.1	16	.3	1,281	2.4
1–5 million	94	2.1	40	19.2	113	2.2	4,667	8.9
5–10 million	173	3.9	28	13.5	209	4.0	3,516	6.7
10–25 million	437	9.8	32	15.4	526	10.0	9,403	17.9
25–50 million	358	8.0	12	5.8	425	8.1	8,358	15.9
Over 50 million	3,401	76.0	21	10.1	3,951	75.4	25,224	48.1

Source: Compiled from U.S. Bureau of the Census, unpublished data.

No. 1437. World Population and Vital Statistics, by Continent and Region, 1970 to 1989, and Projections, 1990 to 2000

[Crude birth rate: Number of births during 1 year per 1,000 persons (based on midyear population). Crude death rate: Number of deaths during 1 year per 1,000 persons (based on midyear population). Total fertility rate: Average number of children that would be born per woman if all women lived to the end of their childbearing years and, at each year of age, they experienced the birth rates occurring in the specified year. For explanation of "more developed" and "less developed" categories, see text, section 31]

Continent and region	Midyear population (millions)					Annual rate of growth [1] (percent)			Crude birth rate		Crude death rate		Total fertility rate (number)		Life expectancy (years)	
	1970	1980	1989	1990	2000	1970–1980	1980–1990	1990–2000	1989	2000	1989	2000	1989	2000	1989	2000
World total	**3,721**	**4,477**	**5,239**	**5,333**	**6,291**	**1.8**	**1.7**	**1.7**	**27.2**	**23.3**	**9.5**	**8.3**	**3.51**	**3.05**	**62.0**	**65.3**
More developed regions	1,049	1,137	1,204	1,211	1,270	.8	.6	.5	14.7	13.3	9.7	9.6	1.94	1.92	73.5	75.7
Less developed regions	2,672	3,340	4,035	4,122	5,021	2.2	2.1	2.0	30.9	25.8	9.5	7.9	3.97	3.34	60.3	63.9
Percent of world	72	75	77	77	80	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)
Africa [2]	376	494	641	661	890	2.7	2.9	3.0	43.9	39.6	13.8	10.7	6.24	5.52	53.1	57.8
Asia	2,111	2,593	3,069	3,128	3,712	2.1	1.9	1.7	27.9	22.4	8.9	7.6	3.49	2.85	62.0	65.8
More developed regions	104	117	123	124	129	1.1	.8	.4	11.5	12.9	6.8	8.6	1.74	1.85	79.0	79.8
Less developed regions	2,007	2,477	2,946	3,004	3,583	2.1	1.9	1.8	28.6	22.8	9.0	7.6	3.57	2.88	61.7	65.5
East Asia [3]	991	1,181	1,330	1,350	1,531	1.8	1.3	1.3	21.4	15.4	6.7	6.4	2.42	1.87	69.8	73.2
South Asia [3]	1,120	1,412	1,739	1,778	2,182	2.3	2.3	2.0	32.9	27.3	10.5	8.4	4.32	3.53	58.1	62.8
Latin America [2]	286	364	442	450	540	2.4	2.1	1.8	27.7	22.9	6.9	5.9	3.38	2.74	67.3	70.9
Middle America [2 3]	70	93	115	117	146	2.9	2.3	2.2	31.4	26.3	6.2	5.2	3.85	3.09	68.5	72.0
Caribbean [2 3]	25	29	33	33	38	1.6	1.3	1.2	24.1	19.8	7.8	7.1	2.78	2.41	66.7	69.4
South America [2 3]	191	242	294	300	356	2.4	2.1	1.7	26.6	21.9	7.0	6.1	3.26	2.63	66.8	70.5
Northern America [3 4]	226	252	275	277	296	1.1	.9	.7	15.1	12.5	8.6	8.9	1.85	1.84	75.6	76.9
Europe [4]	460	484	498	499	511	.5	.3	.2	13.2	12.1	10.6	10.5	1.76	1.76	74.5	75.9
Soviet Union [4]	243	266	289	291	312	.9	.9	.7	18.3	16.2	10.5	9.4	2.42	2.27	69.2	73.2
Oceania	19	23	26	26	30	1.6	1.5	1.3	19.8	17.7	8.1	8.3	2.58	2.37	69.5	71.2
Australia and New Zealand [4]	15	18	20	20	22	1.4	1.2	1.0	15.5	14.0	7.8	8.3	1.92	1.92	76.0	76.9
Less developed regions	4	5	6	6	8	2.5	2.4	2.2	33.7	29.4	9.4	8.2	4.73	3.79	59.5	62.6

X Not applicable. [1] Computed by the exponential method. For explanation of average annual percent change, see Guide to Tabular Presentation. [2] Less developed regions. [3] For component countries, see table 1440. [4] More developed region.

Source: U.S. Bureau of the Census, *World Population Profile, 1989.*

No. 1438. Population and Area, by Region and Country, 1980 and 1989, and Projections, 1990 and 2000

[Population data generally are de facto figures for the present territory. Population estimates were derived from information available as of mid-1989. See table 1440 for country components of regions. See text, section 31, for general comments concerning the data. Data compiled from the International Data Base; see text, section 31. For details of methodology, coverage, and reliability, see sources. Minus sign (–) indicates decrease]

Region and country	Midyear population: Number (1,000) 1980	1989	1990, proj.	2000, proj.	Rank, 1989	Annual percent change [1] 1980–1990	1990–2000	Per sq. mile, 1989	Area [2] (sq. mile)
World total	**4,477,142**	**5,239,372**	**5,332,824**	**6,291,222**	(x)	**1.7**	**1.7**	**102**	**52,448,631**
Africa	494,019	641,147	660,709	890,272	(x)	2.9	3.0	57	11,692,673
Northern America [3]	251,941	274,662	277,020	296,347	(x)	.9	.7	33	8,308,538
Latin America	364,415	441,553	450,375	540,139	(x)	2.1	1.8	57	7,930,816
Middle America	92,835	114,717	117,398	145,880	(x)	2.3	2.2	122	963,397
Caribbean	29,370	33,064	33,475	37,787	(x)	1.3	1.2	362	92,376
South America	242,210	293,773	299,502	356,473	(x)	2.1	1.7	44	6,875,043
East Asia	1,181,034	1,329,892	1,349,669	1,530,780	(x)	1.3	1.3	297	4,550,909
South Asia	1,412,346	1,739,430	1,778,443	2,181,636	(x)	2.3	2.0	289	6,146,724
Europe	484,359	498,036	499,394	510,537	(x)	.3	.2	265	1,881,870
Soviet Union	266,410	288,742	290,939	311,637	(x)	.9	.7	34	8,649,496
Oceania	22,618	25,910	26,274	29,873	(x)	1.5	1.3	8	3,287,606
COUNTRIES									
United States	**227,757**	**248,231**	**250,372**	**267,987**	**4**	**.9**	**.7**	**69**	**3,618,769**
Afghanistan	14,985	14,825	15,592	24,501	53	.4	4.5	62	249,999
Albania	2,671	3,208	3,268	3,792	110	2.0	1.5	294	11,100
Algeria	18,850	24,946	25,714	33,705	34	3.1	2.7	28	919,487
Andorra	34	50	51	59	187	4.2	1.5	283	180
Angola	6,796	8,534	8,802	11,487	73	2.6	2.7	18	481,351
Antigua and Barbuda	69	64	64	69	182	–.7	.7	591	108
Argentina	28,237	31,914	32,291	36,036	30	1.3	1.1	30	1,068,297
Aruba	60	62	63	63	183	.4	(z)	835	75
Australia	14,616	16,452	16,643	18,468	49	1.3	1.0	6	2,967,894
Austria	7,549	7,586	7,595	7,662	78	.1	.1	235	32,369
Bahamas, The	211	247	251	294	158	1.8	1.6	47	5,380
Bahrain	348	497	512	650	142	3.9	2.4	1,962	261
Bangladesh	88,077	114,718	117,976	153,387	9	2.9	2.6	2,122	55,598
Barbados	252	258	260	279	156	.3	.7	1,564	166
Belgium	9,847	9,888	9,895	9,932	67	(z)	(z)	839	11,792
Belize	147	176	180	226	164	2.0	2.3	20	8,866
Benin	3,435	4,664	4,840	7,082	96	3.4	3.8	111	43,483
Bhutan	1,281	1,534	1,566	1,908	126	2.0	2.0	87	18,000
Bolivia	5,395	6,589	6,730	8,218	87	2.2	2.0	16	424,162
Botswana	903	1,185	1,218	1,543	130	3.0	2.4	5	231,804
Brazil	123,072	150,750	153,771	183,902	6	2.2	1.8	47	3,286,524
Brunei	185	345	372	562	151	7.0	4.1	166	2,235
Bulgaria	8,844	8,973	8,978	9,046	69	.2	.1	210	42,823
Burkina	7,088	8,707	8,941	11,814	72	2.3	2.8	96	92,741
Burma	33,533	40,452	41,279	49,772	24	2.1	1.9	158	261,217
Burundi	4,139	5,456	5,647	7,756	90	3.1	3.2	525	10,747
Cambodia	5,692	6,838	6,993	8,511	85	2.1	2.0	100	69,898
Cameroon	8,576	10,817	11,109	14,471	60	2.6	2.6	61	183,567
Canada	24,070	26,311	26,527	28,233	31	1.0	.6	7	3,849,656
Cape Verde	296	364	375	505	149	2.4	3.0	241	1,560
Central African Republic	2,269	2,806	2,879	3,705	114	2.4	2.5	12	240,534
Chad	4,018	4,949	5,064	6,263	95	2.3	2.1	10	495,998
Chile	11,094	12,827	13,016	14,796	56	1.6	1.3	45	292,257
China: Mainland	983,379	1,112,299	1,130,065	1,291,587	1	1.4	1.3	305	3,705,390
Taiwan	17,788	20,233	20,454	22,304	41	1.4	.9	1,642	12,456
Colombia	26,518	31,945	32,598	38,800	29	2.1	1.7	74	439,735
Comoros [4]	334	444	460	656	144	3.2	3.5	549	838
Congo	1,620	2,228	2,305	3,208	120	3.5	3.3	17	132,046
Costa Rica	2,307	2,954	3,032	3,800	113	2.7	2.3	155	19,575
Cuba	9,653	10,482	10,582	11,488	62	.9	.8	239	44,197
Cyprus	627	700	708	775	139	1.2	.9	198	3,572
Czechoslovakia	15,255	15,658	15,695	16,204	51	.3	.3	318	49,371
Denmark	5,123	5,130	5,134	5,165	91	(z)	.1	309	16,632
Djibouti	279	329	337	440	154	1.9	2.6	40	8,494
Dominica	75	83	85	101	176	1.2	1.7	292	291
Dominican Republic	5,757	7,106	7,253	8,663	82	2.3	1.8	385	18,816
East Germany	16,737	16,586	16,578	16,539	48	–.1	(z)	397	41,768
Ecuador	8,123	10,262	10,506	12,993	64	2.6	2.1	96	109,483
Egypt	42,110	52,805	54,139	68,424	21	2.5	2.3	140	386,660
El Salvador	4,614	5,125	5,221	6,329	92	1.2	1.9	643	8,124
Equatorial Guinea	262	353	360	443	150	3.2	2.1	33	10,830
Ethiopia	38,563	49,762	51,375	71,132	22	2.9	3.3	109	471,776
Fiji	631	757	772	925	137	2.0	1.8	109	7,095
Finland	4,780	4,964	4,977	5,049	94	.4	.1	38	130,159
France	53,870	55,994	56,184	57,684	17	.4	.3	266	211,207
Gabon	806	1,060	1,069	1,232	132	2.8	1.4	10	103,346
Gambia, The	644	799	820	1,071	135	2.4	2.7	188	4,361
Ghana	10,841	14,839	15,310	20,811	52	3.5	3.1	166	92,100
Greece	9,643	10,041	10,066	10,271	65	.4	.2	198	50,944
Grenada	90	84	84	83	175	–.7	–.1	633	133
Guatemala	7,132	9,117	9,340	11,543	68	2.7	2.1	222	42,000
Guinea	5,484	7,086	7,269	9,233	83	2.8	2.4	77	94,964

See footnotes at end of table.

No. 1438. Population and Area, by Region and Country: 1980 and 1989, and Projections, 1990 and 2000—Continued

[See headnote, page 831]

Country	Midyear population: Number (1,000) 1980	1989	1990, proj.	2000, proj.	Rank, 1989	Annual percent change [1] 1980–1990	1990–2000	Per sq. mile, 1989	Area [2] (sq. mile)
Guinea-Bissau	789	974	998	1,262	134	2.3	2.3	71	14,000
Guyana	759	765	765	821	136	.1	.7	9	83,000
Haiti	5,473	6,322	6,409	7,347	88	1.6	1.4	598	10,714
Honduras	3,774	5,104	5,261	6,863	93	3.3	2.7	122	43,277
Hungary	10,711	10,567	10,546	10,477	61	-.2	-.1	294	35,919
Iceland	228	249	250	268	157	.9	.7	6	39,708
India [3]	688,994	833,422	850,067	1,013,280	2	2.1	1.8	670	1,269,339
Indonesia	154,936	187,651	191,266	226,619	5	2.1	1.7	244	782,659
Iran	39,124	53,867	55,647	75,701	20	3.5	3.1	87	636,293
Iraq	13,233	18,074	18,782	27,205	44	3.5	3.7	112	167,924
Ireland	3,401	3,550	3,557	3,744	104	.4	.5	131	27,136
Israel	3,737	4,371	4,445	5,165	98	1.7	1.5	556	8,000
Italy	56,451	57,558	57,657	58,499	15	.2	.1	496	116,302
Ivory Coast	8,235	11,619	12,070	17,329	58	3.8	3.6	97	124,503
Jamaica	2,229	2,485	2,513	2,933	118	1.2	1.5	592	4,244
Japan	116,807	123,220	123,778	129,421	7	.6	.4	861	143,750
Jordan	2,152	2,956	3,065	4,372	112	3.5	3.6	88	35,000
Kenya	16,710	24,346	25,393	38,306	36	4.2	4.1	113	224,960
Kiribati	58	69	70	81	180	1.9	1.5	252	278
Kuwait	1,370	2,008	2,080	2,780	123	4.2	2.9	302	6,880
Laos	3,292	3,936	4,024	4,964	102	2.0	2.1	44	91,430
Lebanon	3,138	3,301	3,340	4,058	108	.6	1.9	835	4,000
Lesotho	1,348	1,711	1,757	2,247	125	2.7	2.5	149	11,761
Liberia	1,900	2,556	2,644	3,692	116	3.3	3.3	61	43,000
Libya	3,028	4,080	4,206	5,559	100	3.3	2.8	6	679,359
Liechtenstein	25	28	28	30	194	1.2	.5	456	62
Luxembourg	364	366	366	365	148	.1	(z)	367	998
Madagascar	8,699	11,430	11,802	16,189	59	3.1	3.2	52	228,919
Malawi	6,008	8,737	9,080	11,641	71	4.1	2.5	198	45,747
Malaysia	13,764	16,727	17,053	20,225	47	2.1	1.7	133	128,400
Maldives	154	211	219	318	159	3.5	3.7	1,904	115
Mali	6,985	8,918	9,182	12,283	70	2.7	2.9	19	478,764
Malta	364	371	373	392	147	.3	.5	3,086	121
Mauritania	1,535	1,977	2,038	2,777	124	2.8	3.1	5	397,954
Mauritius	964	1,121	1,141	1,328	131	1.7	1.5	1,585	720
Mexico	70,111	86,366	88,335	109,448	11	2.3	2.1	116	761,601
Monaco	27	29	29	32	193	1.0	.7	29,453	1
Mongolia	1,662	2,125	2,185	2,837	121	2.7	2.6	4	604,100
Morocco	20,545	25,606	26,249	33,274	32	2.5	2.4	152	172,413
Mozambique	12,103	14,275	14,718	20,915	55	2.0	3.5	49	302,328
Nauru	8	9	9	10	204	1.8	1.3	1,150	8
Nepal	14,988	18,700	19,158	24,360	43	2.5	2.4	352	54,359
Netherlands	14,144	14,790	14,864	15,458	54	.5	.4	943	15,770
New Zealand	3,113	3,373	3,402	3,649	107	.9	.7	33	103,736
Nicaragua	2,793	3,503	3,606	4,743	105	2.6	2.7	72	50,193
Niger	5,563	7,448	7,691	10,571	80	3.2	3.2	16	489,189
Nigeria	90,035	115,316	118,865	160,930	8	2.8	3.0	333	356,667
North Korea	17,892	22,521	23,059	28,388	39	2.5	2.1	493	46,768
Norway	4,086	4,203	4,214	4,291	99	.3	.2	34	125,181
Oman	984	1,305	1,345	1,821	128	3.1	3.0	16	82,000
Pakistan [4]	85,219	110,407	113,163	145,266	10	2.8	2.5	365	310,403
Panama	1,956	2,373	2,423	2,928	119	2.1	1.9	81	29,761
Papua New Guinea	2,991	3,736	3,824	4,774	103	2.5	2.2	21	178,259
Paraguay	3,379	4,522	4,660	6,022	97	3.2	2.6	30	157,046
Peru	17,295	21,449	21,904	26,432	40	2.4	1.9	44	496,222
Philippines	50,866	64,907	66,647	85,527	13	2.7	2.5	575	116,000
Poland	35,578	38,170	38,363	39,926	27	.8	.4	318	120,700
Portugal	9,778	10,460	10,528	11,031	63	.7	.5	296	35,553
Qatar	231	469	498	790	143	7.7	4.6	117	4,247
Romania	22,201	23,153	23,269	24,381	38	.5	.5	254	91,698
Rwanda	5,281	7,322	7,603	11,020	81	3.6	3.7	748	10,169
Saint Christopher and Nevis	44	40	40	44	191	-1.0	.9	398	101
Saint Lucia	122	150	153	198	167	2.3	2.5	642	239
Saint Vincent and The Grenadines	98	105	106	118	171	.8	1.1	704	150
San Marino	21	23	23	24	196	.8	.6	963	24
Sao Tome and Principe	94	121	125	170	169	2.8	3.1	335	372
Saudi Arabia	10,150	16,109	16,758	23,154	50	5.0	3.2	20	829,996
Senegal	5,738	7,506	7,740	10,604	79	3.0	3.1	102	75,750
Seychelles	63	70	71	83	178	1.1	1.6	656	108
Sierra Leone	3,316	4,064	4,168	5,403	101	2.3	2.6	150	27,699
Singapore	2,414	2,674	2,703	2,939	115	1.1	.8	11,309	239
Solomon Islands	233	324	335	469	155	3.7	3.4	29	11,500
Somalia	6,110	8,248	8,415	10,387	75	3.2	2.1	34	246,200
South Africa	30,270	38,509	39,550	51,528	26	2.7	2.6	84	471,443
South Korea	38,124	43,347	43,919	49,509	23	1.4	1.2	1,155	38,031
Soviet Union	266,410	286,742	290,939	311,637	3	.9	.7	34	8,649,496
Spain	37,488	39,417	39,623	41,460	25	.6	.5	203	194,896
Sri Lanka	14,900	16,881	17,135	19,384	46	1.4	1.2	676	25,332
Sudan	18,882	24,476	25,164	34,223	35	2.9	3.1	26	967,495
Suriname	355	401	408	482	146	1.4	1.7	6	63,037
Swaziland	584	756	779	1,054	138	2.9	3.0	116	6,704
Sweden	8,310	8,401	8,407	8,382	74	.1	(z)	48	173,731
Switzerland	6,385	6,611	6,628	6,700	86	.4	.1	416	15,918

See footnotes at end of table.

No. 1438. Population and Area, by Region and Country: 1980 and 1989, and Projections, 1990 and 2000—Continued

[See headnote, page 831]

Country	Midyear population: Number (1,000) 1980	1989	1990, proj.	2000, proj.	Rank, 1989	Annual percent change [1] 1980–1990	1990–2000	Per sq. mile, 1989	Area [2] (sq. mile)
Syria	8,692	12,011	12,471	18,157	57	3.6	3.8	174	71,498
Tanzania	18,804	25,206	25,994	36,646	33	3.3	3.4	72	363,947
Thailand	46,926	54,187	56,449	61,570	19	1.6	1.1	276	198,772
Togo	2,596	3,449	3,566	4,942	106	3.2	3.3	162	22,000
Tonga	93	100	101	110	173	.9	.8	263	385
Trinidad and Tobago	1,056	1,244	1,270	1,538	129	1.8	1.9	641	1,980
Tunisia	6,462	7,916	8,095	9,940	76	2.3	2.1	128	63,170
Turkey	45,121	55,356	56,549	68,565	18	2.3	1.9	188	301,381
Tuvalu	7	9	9	10	205	1.6	1.5	877	10
Uganda	12,766	17,008	17,593	24,662	45	3.2	3.4	193	91,075
United Arab Emirates	1,000	2,115	2,250	3,589	122	8.1	4.7	70	32,278
United Kingdom	56,314	57,028	57,121	57,649	16	.1	.1	606	94,200
Uruguay	2,890	2,989	3,002	3,164	111	.4	.5	44	68,037
Vanuatu	117	160	165	221	165	3.4	2.9	29	5,700
Venezuela	15,024	19,263	19,753	24,682	42	2.7	2.2	56	352,143
Vietnam	53,624	66,821	68,488	86,012	12	2.4	2.3	538	127,300
West Germany	61,561	60,977	60,977	60,688	14	–.1	(z)	635	95,976
Western Samoa	155	182	186	235	163	1.8	2.3	164	1,133
Yemen (Aden)	1,920	2,504	2,585	3,581	117	3.0	3.3	21	124,698
Yemen (Sanaa)	5,404	6,942	7,162	10,023	84	2.8	3.4	95	75,000
Yugoslavia	22,304	23,725	23,864	25,040	37	.7	.5	242	98,766
Zaire	26,682	34,279	35,330	47,940	28	2.8	3.1	39	905,563
Zambia	5,629	7,875	8,112	11,577	77	3.7	3.5	28	290,584
Zimbabwe	7,298	9,889	10,482	13,769	66	3.4	3.0	68	151,000
Areas of Special Sovereignty and Dependencies									
American Samoa	32	41	42	50	190	2.5	1.9	549	76
Anguilla	7	7	7	7	207	.5	.7	197	35
Bermuda	57	58	58	59	184	.2	.1	2,917	20
British Virgin Islands	11	12	12	14	202	1.1	1.2	208	59
Cayman Islands	17	24	25	36	195	3.6	3.7	245	100
Cook Islands	18	18	18	19	198	.3	.5	196	93
Faroe Islands	43	47	48	52	188	.9	.8	92	517
Federated States of Micronesia	77	102	105	125	172	3.1	1.8	387	271
French Guiana	68	95	98	124	174	3.7	2.4	3	35,100
French Polynesia	151	196	202	252	160	2.9	2.2	131	1,544
Gaza Strip	453	596	616	837	140	3.1	3.1	4,398	140
Gibraltar	29	30	30	30	192	.1	.1	14,786	2
Greenland	50	55	56	62	186	1.1	1.0	(z)	840,000
Guadeloupe	327	341	344	386	152	.5	1.1	501	687
Guam	107	138	142	180	168	2.8	2.3	679	209
Guernsey	53	57	57	60	185	.7	.5	763	75
Hong Kong	5,063	5,709	5,768	6,262	89	1.3	.8	14,102	409
Isle of Man	64	65	65	66	181	.1	.1	286	227
Jersey	76	83	84	90	177	1.0	.7	1,858	45
Macau	318	436	442	474	145	3.3	.7	73,615	6
Marshall Islands	31	42	43	56	189	3.5	2.5	620	70
Martinique	326	332	333	359	153	.2	.7	784	425
Mayotte	50	69	72	106	179	3.6	3.9	498	145
Montserrat	12	12	12	13	201	.6	.2	320	39
Namibia	998	1,372	1,400	2,022	127	3.4	3.7	4	318,261
Netherlands Antilles	170	183	183	192	162	.8	.5	261	703
New Caledonia	139	152	154	178	166	1.0	1.4	18	8,548
Northern Mariana Islands	17	21	22	26	197	2.6	1.9	118	184
Pacific Islands, Trust Territory of the [7]	13	14	14	15	200	.7	.7	27	533
Puerto Rico	3,206	3,301	3,306	3,427	109	.3	.4	962	3,435
Reunion	507	566	574	658	141	1.2	1.4	592	970
Saint Helena	6	7	7	8	206	1.1	.6	154	47
Saint Pierre and Miquelon	6	6	6	7	208	.5	.3	68	93
Turks and Caicos Islands	7	10	10	12	203	2.7	1.7	59	166
Virgin Islands	98	109	111	126	170	1.7	1.3	832	133
Wallis and Futuna	11	15	15	18	199	3.2	1.9	176	80
West Bank	833	1,015	1,038	1,309	133	2.2	2.3	459	2,262
Western Sahara	126	186	192	246	161	4.2	2.5	2	103,000

Z Less than .05 percent or .5. [1] Computed by the exponential method. For explanation of average annual percent change, see Guide to Tabular Presentation. [2] Data from U.S. Central Intelligence Agency, *The World Factbook Nineteen and Eighty-Six*; U.S. Department of State, *Status of the World's Nations*, periodic; and Statistical Office of the United Nations, New York, NY, *Demographic Yearbook*. [3] Includes Bermuda, Canada, Greenland, St. Pierre and Miquelon, and United States. [4] Excludes Mayotte, an area subject to dispute over sovereignty. [5] Includes the Indian-held part of Jammu and Kashmir. [6] Excludes the Pakistani-held part of Jammu and Kashmir. [7] Includes only the Republic of Palau.

Source: Except as noted, U.S. Bureau of the Census, *World Population Profile, 1989*.

No. 1439. World Population by Age Group, 1989, and Projections, 2000

[**In percent.** Covers countries with 10 million or more population in 1989. Regional data excludes 29 small countries for which component projections are not available. See table 1440 for Country components of regions. Data compiled from the International Data Base; see text, section 31]

COUNTRY	1989				2000			
	Under 5 years old	5 to 14 years old	15 to 64 years old	65 years old and over	Under 5 years old	5 to 14 years old	15 to 64 years old	65 years old and over
World total	**11.9**	**20.7**	**61.5**	**5.9**	**10.9**	**20.3**	**62.1**	**6.6**
Africa	17.8	27.0	52.4	2.9	17.0	27.0	53.0	3.0
Northern America	7.5	14.0	66.2	12.3	6.4	13.9	66.9	12.9
Latin America	12.8	23.6	59.1	4.6	10.9	21.0	62.7	5.3
Middle America	14.3	25.6	56.2	3.9	12.5	23.1	59.8	4.5
Caribbean	11.3	20.3	62.2	6.2	9.6	19.2	64.5	6.6
South America	12.3	23.1	59.9	4.6	10.4	20.3	63.7	5.5
East Asia	9.5	17.2	67.2	6.1	8.3	17.6	66.3	7.8
South Asia	14.2	24.2	58.2	3.5	12.4	22.7	60.8	4.1
Europe	6.4	13.4	66.8	13.4	6.1	12.6	66.3	15.0
Soviet Union	9.3	16.8	64.7	9.3	7.9	16.3	64.4	11.5
Oceania	9.2	17.4	64.2	9.2	8.6	16.7	65.0	9.7
COUNTRIES								
United States	**7.5**	**14.1**	**66.0**	**12.4**	**6.4**	**13.9**	**66.8**	**12.9**
Afghanistan	16.8	26.5	54.1	2.6	16.0	25.9	55.3	2.8
Algeria	16.9	27.4	52.3	3.4	13.7	25.9	56.7	3.6
Argentina	9.9	20.0	61.1	9.0	9.1	17.4	63.6	9.8
Australia	7.6	14.9	66.6	10.9	7.1	14.4	66.8	11.6
Bangladesh	17.0	27.9	51.9	3.3	14.8	25.3	56.6	3.2
Brazil	12.4	23.6	59.9	4.1	10.3	20.2	64.3	5.2
Burma	14.3	24.0	57.7	3.9	12.6	23.2	59.9	4.3
Cameroon	17.1	26.8	53.0	3.1	16.3	26.2	54.5	3.1
Canada	7.2	13.8	67.7	11.3	5.9	13.1	68.0	13.1
Chile	10.3	19.8	64.0	6.0	8.8	17.8	66.4	7.1
China: Mainland	9.8	17.4	67.2	5.6	8.5	18.3	66.2	7.1
Taiwan	8.3	19.4	66.4	5.9	6.9	14.4	70.5	8.2
Colombia	12.5	22.1	61.9	3.5	9.9	20.7	64.9	4.4
Cuba	8.1	14.8	68.5	8.6	6.9	14.9	68.5	9.7
Czechoslovakia	7.0	16.3	65.0	11.6	7.2	13.5	67.3	12.1
East Germany	6.7	13.1	67.3	13.0	5.8	12.7	67.8	13.7
Ecuador	14.1	25.5	56.6	3.7	11.8	22.5	61.5	4.2
Egypt	15.1	25.3	56.2	3.4	13.4	24.0	58.7	3.8
Ethiopia	17.9	28.1	51.3	2.6	17.9	27.5	51.8	2.8
France	6.8	13.4	66.1	13.7	6.0	12.9	65.5	15.6
Ghana	18.8	25.5	52.7	3.0	17.8	28.4	50.8	3.0
Greece	5.9	13.9	66.5	13.8	5.7	11.5	65.3	17.5
Hungary	5.9	14.7	66.3	13.1	6.7	12.2	67.1	14.0
India	13.4	23.1	60.0	3.4	11.2	21.6	63.1	4.1
Indonesia	13.0	24.3	59.9	2.8	10.5	20.8	64.4	4.2
Iran	18.0	26.6	51.9	3.4	16.6	27.5	51.9	4.0
Iraq	18.8	28.9	49.0	3.2	18.0	28.6	50.4	3.0
Italy	5.3	12.0	68.4	14.3	5.9	11.1	66.3	16.7
Ivory Coast	18.6	27.6	51.8	2.0	18.3	28.0	51.4	2.3
Japan	5.7	13.3	69.4	11.6	6.3	11.1	66.5	16.1
Kenya	21.4	30.1	46.4	2.1	20.2	30.5	47.2	2.1
Madagascar	19.0	27.2	50.4	3.4	18.2	28.2	50.4	3.1
Malaysia	12.5	22.8	60.9	3.8	10.2	20.5	65.0	4.3
Mexico	13.8	25.1	57.0	4.1	12.3	22.6	60.4	4.7
Morocco	15.2	25.8	55.0	4.0	13.1	24.0	58.5	4.4
Mozambique	18.0	26.8	52.8	2.5	17.4	27.3	52.7	2.6
Nepal	16.6	26.9	53.7	2.8	15.3	25.4	56.3	3.0
Netherlands	6.1	12.1	69.0	12.8	6.0	12.2	67.7	14.1
Nigeria	18.0	26.9	53.1	2.0	17.8	26.9	52.6	2.7
North Korea	13.7	23.8	58.6	3.9	11.3	22.3	61.7	4.7
Pakistan	17.2	26.0	52.8	4.0	16.5	26.2	53.4	3.9
Peru	13.4	25.2	57.7	3.7	10.9	21.4	63.2	4.5
Philippines	15.5	25.2	56.0	3.3	14.1	24.7	57.4	3.8
Poland	8.4	17.2	64.6	9.8	6.8	14.8	66.9	11.6
Portugal	7.0	15.0	65.8	12.2	6.6	13.5	66.2	13.8
Romania	7.6	16.1	66.1	10.2	7.3	14.7	65.5	12.6
Saudi Arabia	15.9	21.5	60.7	1.9	15.6	24.7	57.0	2.7
South Africa	15.3	24.6	56.2	3.9	14.8	24.7	56.4	4.0
South Korea	9.7	18.5	67.2	4.5	8.6	17.0	68.4	5.9
Soviet Union	9.3	16.8	64.7	9.3	7.9	16.3	64.4	11.5
Spain	6.3	14.9	65.9	12.9	6.4	12.5	65.6	15.5
Sri Lanka	10.5	21.9	62.5	5.0	9.2	17.9	66.8	6.2
Sudan	18.3	27.1	51.5	3.1	16.9	27.3	52.7	3.2
Syria	19.0	28.6	49.4	3.0	18.4	28.5	50.0	3.0
Tanzania	19.8	28.4	48.8	2.9	19.3	28.8	49.2	2.7
Thailand	9.7	21.7	64.5	4.1	8.3	16.6	69.6	5.5
Turkey	13.4	23.7	58.5	4.4	11.2	21.7	61.9	5.2
Uganda	19.6	28.4	49.7	2.3	19.1	28.9	49.8	2.2
United Kingdom	6.6	12.2	65.7	15.6	5.9	13.0	65.7	15.4
Venezuela	14.1	24.4	57.9	3.6	12.0	22.5	61.1	4.4
Vietnam	15.0	24.9	56.5	3.7	12.9	24.0	58.9	4.3
West Germany	5.1	9.7	69.8	15.4	5.4	10.9	66.7	17.1
Yugoslavia	7.5	15.6	67.7	9.1	6.7	13.9	66.8	12.5
Zaire	18.2	27.5	51.5	2.8	17.4	27.6	52.3	2.8

Source: U.S. Bureau of the Census, *World Population Profile: 1989.*

No. 1440. Vital Statistics, 1989, and Projections, 2000—Selected Countries

[Covers countries with 5 million or more population in 1989. AFR—Africa, EAS—East Asia, SAS—South Asia, CAR—Carribbean, MAM—Middle America, SAM—South America, NAM—North America, EUR—Europe, SOV—Soviet Union, OCE—Oceania. For region data, see table 1437. Data compiled from the International Data Base; see text, section 31]

Country	Region	Crude birth rate [1 2]		Crude death rate [1 2]		Expectation of life at birth (yrs.)		Infant mortality rate [3]		Total fertility rate [2]	
		1989	2000	1989	2000	1989	2000	1989	2000	1989	2000
United States	**NAM**	**15.1**	**12.7**	**8.8**	**9.0**	**75.4**	**76.7**	**11**	**10**	**1.87**	**1.86**
Afghanistan	SAS	44.3	40.3	20.8	16.5	42.6	47.9	173	148	6.47	5.58
Algeria	AFR	38.4	28.5	7.9	4.8	64.7	71.0	73	40	5.57	3.78
Angola	AFR	46.7	42.6	20.7	16.1	43.3	48.9	161	128	6.72	6.05
Argentina	SAM	20.3	19.2	8.7	8.6	70.6	72.3	33	26	2.81	2.50
Australia	OCE	15.5	14.0	7.7	8.2	76.2	77.1	8	6	1.93	1.93
Austria	EUR	12.2	11.0	11.5	10.6	75.6	77.5	8	5	1.53	1.70
Bangladesh	SAS	42.7	34.9	14.6	10.6	53.2	58.4	138	116	5.83	4.50
Belgium	EUR	12.1	11.0	11.3	11.1	75.5	76.8	8	6	1.59	1.70
Bolivia	SAM	35.6	30.2	13.0	10.4	54.3	58.8	123	105	4.75	3.75
Brazil	SAM	26.7	21.9	6.6	5.6	66.9	71.2	67	50	3.22	2.60
Bulgaria	EUR	13.0	13.2	12.4	12.7	70.8	72.2	18	14	1.92	1.90
Burkina	AFR	47.5	43.6	18.2	13.9	47.1	52.3	138	109	6.56	5.89
Burma	SAS	33.4	28.1	13.0	10.8	54.1	57.9	99	80	4.22	3.51
Burundi	AFR	48.0	41.9	15.3	11.1	51.5	56.4	114	89	6.95	6.25
Cambodia	SAS	39.2	28.8	16.7	11.9	48.3	54.9	131	95	4.59	3.96
Cameroon	AFR	41.9	38.3	15.6	12.1	50.0	55.1	123	96	5.76	5.00
Canada	NAM	14.3	11.5	7.4	7.9	77.2	79.3	7	5	1.69	1.70
Chile	SAM	21.1	17.7	6.4	6.4	71.5	73.6	18	13	2.46	2.21
China: Mainland	EAS	22.5	15.4	6.7	6.3	69.3	72.7	34	23	2.50	1.85
Taiwan	EAS	16.5	14.0	5.2	6.6	73.3	74.2	18	17	1.77	1.71
Colombia	SAM	27.3	19.8	6.5	5.6	65.8	69.5	54	42	2.96	2.25
Cuba	CAR	16.8	13.4	6.3	6.9	75.7	76.6	14	12	1.71	1.74
Czechoslovakia	EUR	14.0	14.5	11.6	10.9	71.7	73.0	13	11	2.02	1.90
Denmark	EUR	11.3	11.5	11.4	11.1	75.5	77.5	7	4	1.52	1.70
Dominican Republic	CAR	29.5	22.4	7.8	6.4	62.4	66.6	67	49	3.29	2.57
East Germany	EUR	13.3	12.0	12.9	11.7	72.8	73.7	10	9	1.80	1.89
Ecuador	SAM	30.9	24.9	7.2	6.0	65.5	68.9	63	47	3.91	2.93
Egypt	AFR	35.5	29.6	10.0	7.5	59.8	64.8	93	64	4.78	3.82
El Salvador	MAM	33.2	29.7	7.9	5.9	62.3	67.7	62	37	4.05	3.25
Ethiopia	AFR	45.3	42.5	14.6	11.4	51.4	56.4	113	88	7.03	6.33
France	EUR	13.5	11.7	10.1	9.8	75.9	77.3	9	7	1.79	1.70
Ghana	AFR	46.2	40.9	13.5	10.9	53.9	57.5	91	76	6.44	5.79
Greece	EUR	11.9	11.4	9.5	9.9	77.2	79.1	11	7	1.69	1.70
Guatemala	MAM	36.3	28.2	9.2	7.4	60.7	64.5	64	50	5.07	3.50
Guinea	AFR	47.6	39.6	22.2	17.2	42.0	47.0	149	122	6.07	5.46
Haiti	CAR	31.5	26.2	12.1	10.0	55.7	59.6	92	75	4.21	3.26
Hong Kong	EAS	13.1	11.0	5.1	6.5	78.3	79.4	6	5	1.40	1.56
Hungary	EUR	12.2	13.7	14.2	13.4	69.1	71.1	20	15	1.85	1.90
India	SAS	30.6	24.1	10.7	8.6	57.3	62.1	91	67	3.87	3.00
Indonesia	SAS	28.4	22.3	9.1	7.0	59.1	65.4	80	58	3.39	2.59
Iran	SAS	44.2	37.4	9.8	6.9	62.1	67.6	93	70	6.18	5.31
Iraq	SAS	45.3	40.1	7.5	5.1	66.1	71.0	69	51	7.14	5.81
Italy	EUR	11.2	11.6	10.0	10.5	76.8	78.0	8	6	1.48	1.70
Ivory Coast	AFR	46.3	42.7	12.9	9.9	53.4	58.3	102	78	6.69	6.03
Japan	EAS	11.5	12.9	6.8	8.6	79.0	79.8	5	5	1.74	1.85
Kenya	AFR	51.1	46.4	9.0	6.4	61.1	65.6	70	50	7.81	6.86
Madagascar	AFR	47.1	42.7	15.2	11.5	51.8	56.7	99	78	6.94	6.25
Malawi	AFR	50.6	46.3	17.6	13.2	48.1	53.0	132	105	7.68	6.79
Malaysia	SAS	25.9	20.9	6.3	5.6	67.3	70.5	31	21	2.95	2.45
Mali	AFR	49.0	44.3	20.1	15.5	45.8	51.0	151	129	6.59	5.93
Mexico	MAM	30.3	25.7	5.8	5.0	70.1	73.2	42	31	3.63	3.01
Morocco	AFR	34.6	28.1	8.6	5.8	63.6	69.8	80	56	4.55	3.46
Mozambique	AFR	46.6	42.1	18.2	14.2	46.3	51.3	142	114	6.49	5.84
Namibia	AFR	44.8	41.0	10.1	7.4	59.5	64.1	72	52	6.64	5.97
Nepal	SAS	39.7	35.6	15.4	11.7	49.7	55.2	101	83	5.70	4.68
Netherlands	EUR	12.8	11.6	8.6	8.9	77.2	78.8	7	5	1.56	1.70
Niger	AFR	49.3	44.6	17.3	13.3	48.9	53.8	137	117	6.80	6.12
Nigeria	AFR	46.2	43.1	16.7	13.7	48.1	52.8	121	103	6.54	5.99
North Korea	EAS	29.2	23.3	5.3	4.9	69.8	72.5	32	26	3.52	2.84
Pakistan	SAS	43.0	39.9	14.3	11.9	54.2	57.8	120	106	6.51	5.77

See footnotes at end of table.

No. 1440. Vital Statistics, 1989, and Projections, 2000—Selected Countries—Continued

[See headnote, page 835]

Country	Region	Crude birth rate [1 2]		Crude death rate [1 2]		Expectation of life at birth (yrs.)		Infant mortality rate [3]		Total fertility rate [2]	
		1989	2000	1989	2000	1989	2000	1989	2000	1989	2000
Peru	SAM	29.2	23.2	7.9	6.2	63.4	68.1	69	53	3.75	2.70
Philippines	SAS	34.5	30.4	6.8	5.9	65.9	68.7	48	37	4.62	4.12
Poland	EUR	16.0	13.8	10.4	10.3	70.2	71.8	21	17	2.24	1.90
Portugal	EUR	14.5	12.8	9.5	9.6	74.3	76.1	15	11	1.82	1.70
Puerto Rico	CAR	19.4	18.0	7.3	7.3	73.0	74.1	16	14	2.20	2.05
Romania	EUR	16.2	14.3	10.7	10.7	70.2	71.7	25	20	2.22	1.90
Rwanda	AFR	53.1	47.9	15.6	11.5	51.3	56.3	117	91	8.49	7.65
Saudi Arabia	SAS	37.8	35.4	6.8	4.9	64.8	70.6	74	51	6.84	6.46
Senegal	AFR	45.8	43.8	15.3	11.9	52.1	57.1	96	82	6.56	6.00
Somalia	AFR	46.9	41.9	15.0	11.1	52.7	58.8	128	100	7.29	6.55
South Africa	AFR	34.7	32.7	8.1	6.8	63.6	67.1	53	40	4.52	4.28
South Korea	EAS	20.2	17.4	6.2	6.1	69.4	72.4	24	15	2.20	2.11
Soviet Union	SOV	18.3	16.2	10.5	9.4	69.2	73.2	25	15	2.42	2.27
Spain	EUR	13.2	12.8	8.4	9.2	77.3	78.5	11	8	1.73	1.70
Sri Lanka	SAS	21.5	19.1	6.2	6.2	69.4	71.9	31	24	2.45	2.22
Sudan	AFR	44.1	38.8	14.1	10.7	52.9	57.8	98	76	6.52	5.52
Sweden	EUR	11.7	10.8	11.6	11.9	77.4	78.6	6	5	1.73	1.70
Switzerland	EUR	11.6	10.4	9.7	10.7	78.0	78.5	6	5	1.56	1.70
Syria	SAS	43.6	40.9	6.1	4.2	68.0	72.1	41	30	6.79	6.00
Tanzania	AFR	49.9	46.0	15.9	12.0	51.1	56.1	109	86	7.09	6.39
Thailand	SAS	20.3	17.3	7.2	7.0	65.1	68.4	50	38	2.20	1.85
Tunisia	AFR	28.8	23.9	6.2	5.1	69.3	72.6	44	29	3.97	3.01
Turkey	SAS	29.8	23.9	8.3	6.5	64.1	68.8	81	54	3.74	2.90
Uganda	AFR	49.0	44.9	15.3	11.6	50.1	55.0	99	77	7.02	6.32
United Kingdom	EUR	13.4	11.2	11.8	11.2	75.3	76.9	9	6	1.77	1.70
Venezuela	SAM	30.1	25.4	5.5	5.4	69.6	71.2	38	34	3.69	3.13
Vietnam	SAS	33.3	26.8	7.8	5.9	63.9	69.1	51	33	4.27	3.27
West Germany	EUR	10.9	10.3	11.8	11.7	75.9	77.2	7	5	1.40	1.70
Yemen (Sanaa)	SAS	52.5	50.2	17.8	13.2	48.2	54.0	132	101	7.66	7.00
Yugoslavia	EUR	15.2	13.6	9.2	9.7	71.7	73.0	25	21	2.02	1.90
Zaire	AFR	44.7	40.8	13.9	10.6	52.6	57.6	107	82	6.23	5.60
Zambia	AFR	49.6	43.9	12.2	9.1	55.6	60.4	83	63	7.00	6.30
Zimbabwe	AFR	42.3	33.0	9.0	6.1	60.6	65.4	68	47	5.92	4.15

[1] Per 1,000 population. [2] For definition, see headnote, table 1437. [3] Number of deaths of children under 1 year of age per 1,000 live births in a calendar year.

Source: U.S. Bureau of the Census, *World Population Profile: 1989.*

No. 1441. Population of the World's 100 Largest Urban Areas, 1960 to 1985, and Projections, 1990 and 2000

[**In millions.** The 100 largest cities are large urban agglomerations, composed, in most cases, of the central city, adjacent smaller cities and towns, and suburbs. City boundaries depend on local administrative boundaries, population densities, types of economic activity and other characteristics. Rankings depend on the population living within the urban agglomeration boundaries as determined by local and national governments. Rankings would not necessarily be the same if uniform criteria were used]

Cities ranked by population size, 1985	1960	1970	1975	1980	1985	1990, proj.	2000, proj.
Tokyo/Yokohama, Japan	10.7	14.9	16.4	17.7	19.0	20.5	21.3
Mexico City, Mexico	4.9	8.7	11.1	14.0	16.7	19.4	24.4
New York, U.S.	**14.2**	**16.2**	**15.9**	**15.6**	**15.6**	**15.7**	**16.1**
Sao Paulo, Brazil	4.7	8.1	10.1	12.5	15.5	18.4	23.6
Shanghai, China: Mainland	10.7	11.4	11.6	11.8	12.1	12.6	14.7
Buenos Aires, Argentina	6.7	8.3	9.1	9.9	10.8	11.6	13.1
London, England	10.7	10.6	10.4	10.4	10.5	10.6	10.8
Calcutta, India	5.5	6.9	7.9	9.0	10.3	11.8	15.9
Rio De Janeiro, Brazil	4.9	7.0	8.0	9.0	10.1	11.1	13.0
Seoul, South Korea	2.4	5.3	6.8	8.3	10.1	11.3	13.0
Los Angeles, U.S.	**6.5**	**8.4**	**8.9**	**9.5**	**10.0**	**10.5**	**10.9**
Osaka/Kobe, Japan	5.8	7.6	8.0	8.7	9.6	10.5	11.2
Greater Bombay, India	4.1	5.8	6.9	8.1	9.5	11.1	15.4
Beijing, China: Mainland	7.3	8.3	8.9	9.1	9.3	9.7	11.5
Moscow, Soviet Union	6.3	7.1	7.6	8.2	8.9	9.4	10.1
Paris, France	7.2	8.3	8.6	8.7	8.8	8.8	8.8
Tianjin, China: Mainland	6.0	6.9	7.4	7.7	8.0	8.4	10.0
Cairo/Giza, Egypt	3.7	5.3	6.1	6.9	7.9	9.1	11.8
Jakarta, Indonesia	2.7	4.3	5.3	6.4	7.8	9.4	13.2
Milan, Italy	4.5	5.5	6.1	6.8	7.5	7.9	8.7

See footnotes at end of table.

No. 1441. Population of the World's 100 Largest Urban Areas, 1960 to 1985, and Projections, 1990 and 2000—Continued

[See headnote, page 836]

Cities ranked by population size, 1985	1960	1970	1975	1980	1985	1990, proj.	2000, proj.
Teheran, Iran	1.9	3.3	4.3	5.6	7.2	9.2	13.7
Manila/Quezon, Philippines	2.3	3.5	5.0	6.0	7.1	8.4	11.5
Delhi, India	2.3	3.5	4.4	5.5	7.0	8.6	12.8
Chicago, U.S.	**6.0**	**6.7**	**6.8**	**6.8**	**6.8**	**6.9**	**7.0**
Karachi, Pakistan	1.9	3.1	4.0	5.0	6.2	7.7	11.6
Bangkok, Thailand	2.2	3.1	3.8	4.8	5.9	7.2	10.3
Lagos, Nigeria	.8	2.0	3.3	4.5	5.8	7.6	12.5
Lima-Callo, Peru	1.7	2.8	3.6	4.4	5.4	6.5	8.8
Hong Kong, Hong Kong	2.6	3.4	3.9	4.5	5.2	5.4	6.1
Leningrad, Soviet Union	3.5	4.0	4.3	4.7	5.1	5.4	5.8
Madras, India	1.7	3.0	3.6	4.2	4.9	5.7	7.9
Madrid, Spain	2.2	3.4	3.8	4.3	4.8	5.1	5.4
Dacca, Bangladesh	.7	1.5	2.3	3.3	4.8	6.4	11.3
Bogota, Colombia	1.3	2.4	3.1	3.9	4.7	5.6	6.9
Baghdad, Iraq	1.0	2.1	2.7	3.5	4.4	5.4	7.7
Naples, Italy	3.2	3.6	3.8	4.0	4.3	4.3	4.5
Santiago, Chile	2.0	2.8	3.2	3.7	4.2	4.7	5.6
Philadelphia, U.S.	**3.6**	**4.0**	**4.1**	**4.1**	**4.2**	**4.2**	**4.3**
Shenyang, China	2.5	3.1	3.5	3.8	4.1	4.5	5.5
Pusan, South Korea	1.2	1.8	2.4	3.1	4.0	4.8	5.8
Detroit, U.S.	**3.6**	**4.0**	**3.9**	**3.8**	**3.8**	**3.9**	**3.9**
Bangalore, India	1.2	1.6	2.1	2.8	3.7	4.9	7.7
Roma, Italy	2.3	3.1	3.3	3.5	3.7	3.7	3.8
Sydney, Australia	2.1	2.7	3.0	3.3	3.6	3.8	4.1
Caracas, Venezuela	1.3	2.1	2.5	2.9	3.5	4.0	4.8
Wuhan, China: Mainland	2.2	2.7	3.0	3.2	3.4	3.7	4.5
Lahore, Pakistan	1.3	2.0	2.4	2.9	3.4	4.1	5.9
Katowice, Poland	2.4	2.8	2.9	3.2	3.4	3.6	3.9
Guangzhou, China: Mainland	1.9	2.5	2.8	3.1	3.3	3.6	4.5
San Francisco, U.S.	**2.4**	**3.0**	**3.1**	**3.2**	**3.3**	**3.4**	**3.5**
Barcelona, Spain	2.0	2.7	2.9	3.1	3.3	3.3	3.4
Belo Horiaonte, Brazil	.9	1.6	2.0	2.5	3.2	3.8	5.0
Toronto, Canada	1.7	2.5	2.8	3.0	3.2	3.3	3.6
Melbourne, Australia	1.9	2.3	2.6	2.8	3.0	3.1	3.3
Birmingham, United Kingdom	2.7	2.8	2.9	2.9	3.0	3.0	3.1
Ahmedabad, India	1.2	1.7	2.0	2.5	3.0	3.6	5.1
Hyderabad, India	1.2	1.8	2.1	2.5	2.9	3.5	4.9
Instanbul, Turkey	1.5	2.8	2.9	2.9	2.9	3.0	3.3
Ankara, Turkey	.6	1.3	1.7	2.2	2.9	3.6	5.2
Washington, D.C., U.S.	**1.8**	**2.5**	**2.6**	**2.8**	**2.9**	**3.0**	**3.2**
Alexandria, Egypt	1.5	2.0	2.2	2.5	2.9	3.3	4.3
Montreal, Canada	2.0	2.7	2.8	2.8	2.9	2.9	2.9
Houston, U.S.	**1.2**	**1.7**	**2.0**	**2.4**	**2.8**	**3.2**	**3.6**
Ho Chi Minh Village, Viet Nam	1.3	2.0	2.2	2.5	2.8	3.2	4.4
Athens, Greece	1.8	2.1	2.3	2.5	2.8	2.9	3.2
Chongqing, China: Mainland	2.2	2.5	2.6	2.7	2.7	2.9	3.4
Rangoon, Burma	1.0	1.4	1.8	2.2	2.7	3.2	4.5
Boston, U.S.	**2.4**	**2.7**	**2.7**	**2.7**	**2.7**	**2.7**	**2.8**
Alger, Algeria	.9	1.2	1.6	2.1	2.7	3.4	5.2
Chengdu, China: Mainland	1.1	1.6	2.0	2.4	2.7	3.1	4.0
Casablanca, Morocco	1.1	1.5	1.8	2.2	2.7	3.3	4.6
Porto Alegre, Brazil	1.0	1.5	1.8	2.2	2.7	3.1	3.9
Recife, Brazil	1.2	1.8	2.0	2.3	2.7	3.0	3.6
Dallas, U.S.	**1.2**	**2.0**	**2.2**	**2.5**	**2.7**	**2.9**	**3.1**
Guadalajara, Mexico	.9	1.5	1.9	2.3	2.7	3.1	3.9
Harbin, China	1.6	2.0	2.2	2.4	2.6	2.9	3.6
Kiev, Soviet Union	1.2	1.7	1.9	2.2	2.6	2.9	3.4
Kinshasa, Zaire	.5	1.4	1.8	2.2	2.6	3.0	4.4
Singapore, Singapore	1.2	1.6	1.9	2.4	2.6	2.7	3.0
Manchester, United Kingdom	2.5	2.5	2.5	2.5	2.5	2.6	2.6
Tiabei, China	1.0	1.5	1.8	2.2	2.5	2.9	3.8
Monterrey, Mexico	.9	1.2	1.6	2.0	2.4	2.9	3.8
Zibo, China	.8	1.3	1.7	2.0	2.4	2.8	3.8
Turin, Italy	1.3	1.6	1.8	2.1	2.3	2.5	2.8
Surabaja, Indonesia	1.0	1.5	1.7	2.0	2.3	2.7	3.7
Xian, China	1.3	1.7	2.0	2.1	2.3	2.5	3.1
Hamburg, West Germany	2.1	2.2	2.2	2.2	2.2	2.2	2.2
Bucharest, Romania	1.4	1.7	1.9	2.1	2.2	2.3	2.6
Liupanshui, China	1.2	1.7	1.9	2.0	2.2	2.4	3.0
Munich, West Germany	1.3	1.7	1.9	2.1	2.2	2.3	2.3
Salvador, Brazil	.7	1.1	1.4	1.8	2.2	2.6	3.4
Nanjing, China	1.5	1.8	1.9	2.1	2.2	2.3	2.8
Tashkent, Soviet Union	1.0	1.4	1.6	1.9	2.1	2.3	2.7
Kitakyushu, Japan	1.3	1.6	1.7	1.9	2.1	2.3	2.4
West Berlin, West Germany	2.2	2.1	2.1	2.1	2.1	2.1	2.1
Budapest, Hungary	1.8	2.0	2.1	2.1	2.1	2.1	2.2
Leeds-Bradford, United Kingdom	1.9	2.0	2.0	2.0	2.1	2.1	2.1
Medan, Indonesia	.5	.6	.9	1.3	2.1	3.0	5.4
Nagoya, Japan	1.5	1.9	1.9	2.0	2.1	2.1	2.1
Poona, India	.7	1.1	1.3	1.6	2.0	2.4	3.6

Source: United Nations, Dept. for International Economic and Social Affairs, New York, NY, *The Prospects of World Urbanization: 1988*, forthcoming.

No. 1442. Death Rates by Selected Causes—Selected Countries

[**Age-standardized death rate per 100,000 population.** For explanation of age-adjustment, see text, section 2. The standard population for this table is the European standard; see source for details. Deaths classified according to ninth revision of *International Classification of Diseases;* see text, section 2]

COUNTRY	Year	Ischemic heart disease	Cerebrovascular disease	MALIGNANT NEOPLASM OF— Lung, trachea, bronchus	Stomach	Female breast [1]	Bronchitis,[2] emphysema, asthma	Chronic liver disease and cirrhosis	Motor vehicle traffic accidents	Suicide and self-inflicted injury
United States	1986	200.8	55.7	53.9	5.6	31.8	8.8	12.0	18.4	12.8
Australia	1986	216.2	84.1	39.4	9.4	29.5	14.3	8.4	17.9	12.6
Austria	1987	153.0	123.5	34.9	20.5	32.0	21.1	25.8	17.1	25.3
Belgium	1986	110.4	83.0	55.5	13.8	38.1	26.3	12.6	19.6	21.0
Bulgaria	1986	248.0	243.1	31.3	24.0	20.8	22.2	16.1	11.6	15.4
Canada	1986	197.7	57.2	51.6	9.4	35.0	9.3	9.9	14.8	14.4
Czechoslovakia	1986	299.7	199.0	53.0	21.7	29.0	31.1	19.8	10.1	19.8
Denmark	1986	237.1	72.3	51.4	11.6	40.4	37.5	13.1	12.8	26.8
Finland	1986	259.8	105.0	36.4	17.3	23.9	19.8	8.8	11.9	26.3
France	1986	77.1	79.0	33.4	10.7	28.3	12.5	21.8	18.0	22.1
Hungary	1987	233.7	182.0	56.9	24.8	32.7	39.2	43.2	15.6	43.8
Italy	1985	105.4	116.9	43.2	22.3	29.1	28.9	29.8	14.9	7.9
Japan	1987	39.9	103.1	25.8	39.4	8.0	11.3	13.7	10.0	19.2
Netherlands	1986	158.8	70.3	56.7	14.7	37.7	19.0	5.6	9.6	10.9
New Zealand	1986	249.3	93.4	43.6	11.5	35.4	21.2	4.0	21.8	13.1
Norway	1986	204.8	86.2	27.3	13.4	28.3	15.9	5.4	10.1	14.1
Poland	1987	114.1	75.3	47.7	23.9	21.1	30.3	11.4	14.2	14.1
Portugal	1987	76.1	212.5	19.5	26.4	23.4	14.6	28.9	25.6	9.3
Spain	1984	78.7	117.6	28.3	18.0	21.0	14.0	21.6	14.4	6.6
Sweden	1986	236.5	71.9	22.6	11.1	25.2	14.5	6.9	9.5	17.6
Switzerland	1987	111.6	60.9	35.0	11.6	37.1	16.8	10.6	13.6	22.3
United Kingdom:										
England and Wales	1987	229.7	94.9	55.1	14.2	41.9	17.1	5.0	8.6	7.6
Scotland	1987	288.4	121.0	70.2	15.6	38.3	12.6	7.8	10.5	10.0
West Germany	1987	158.8	94.3	35.2	17.5	33.1	23.9	19.6	11.2	16.9

[1] Data for female population only. [2] Chronic and unspecified.

Source: World Health Organization, Geneva, Switzerland, *1988 World Health Statistics Annual.*

No. 1443. Suicide Rates for Selected Countries, by Sex and Age Group

[**Rate per 100,000 population.** Includes deaths resulting indirectly from self-inflicted injuries. Except as noted, deaths classified according to the ninth revision of the *International Classification of Diseases* (I.C.D.); see text, section 2]

SEX AND AGE	United States, 1986	Australia, 1986	Austria, 1987	Canada, 1986	Denmark,[1] 1986	France, 1986	Italy, 1985	Japan, 1987	Netherlands, 1986	Poland, 1987	Sweden,[1] 1986	United Kingdom,[2] 1987	West Germany, 1987
MALE													
Total [3]	**20.6**	**19.1**	**40.1**	**22.8**	**35.6**	**32.9**	**12.2**	**25.6**	**13.9**	**22.3**	**27.1**	**11.6**	**26.7**
15–24 yrs. old	21.7	21.2	29.3	26.9	16.5	16.0	5.2	11.6	8.1	17.8	19.5	9.3	17.6
25–34 yrs. old	25.5	28.3	42.9	32.0	33.2	34.2	9.2	23.7	15.2	30.6	29.4	14.6	24.3
35–44 yrs. old	23.0	23.5	44.8	28.5	50.6	38.1	10.1	29.4	15.3	32.3	33.8	14.6	27.7
45–54 yrs. old	24.4	23.1	54.9	28.1	54.3	46.3	14.8	45.5	19.6	38.5	38.8	15.0	35.2
55–64 yrs. old	26.7	24.6	48.5	27.6	62.2	47.8	22.0	40.5	22.6	35.0	36.1	17.8	37.5
65–74 yrs. old	35.5	27.1	68.1	28.4	52.9	63.5	33.7	42.1	25.5	29.9	39.3	15.8	43.9
75 yrs. old and over	56.0	36.8	125.2	36.3	65.5	121.3	50.0	73.0	42.8	33.2	48.0	20.0	77.2
FEMALE													
Total [3]	**5.4**	**5.6**	**15.7**	**6.4**	**19.9**	**12.9**	**4.7**	**13.8**	**8.2**	**4.7**	**10.1**	**4.5**	**11.8**
15–24 yrs. old	4.4	5.4	8.1	5.3	5.2	4.6	1.3	6.5	3.6	3.0	7.9	2.1	4.5
25–34 yrs. old	5.9	6.3	10.7	7.5	14.0	10.1	2.7	9.9	9.1	5.7	11.0	3.8	7.8
35–44 yrs. old	7.6	7.5	15.9	8.9	24.6	14.4	4.3	10.9	10.9	6.4	14.6	4.6	10.4
45–54 yrs. old	8.8	10.8	16.8	11.4	36.7	20.2	5.9	16.9	13.6	8.0	15.4	7.6	15.6
55–64 yrs. old	8.4	8.3	22.9	8.9	44.2	21.2	8.8	21.2	13.5	7.7	15.3	7.3	17.4
65–74 yrs. old	7.3	7.6	33.8	9.2	29.3	25.4	11.8	31.1	12.5	7.7	12.7	8.1	23.2
75 yrs. old and over	6.8	6.2	35.4	5.5	26.0	29.5	12.4	53.2	13.0	6.9	8.8	6.9	23.7

[1] Based on the eighth revision of the I.C.D. [2] England and Wales only. [3] Includes other age groups not shown separately.

Source: World Health Organization, Geneva, Switzerland, *1988 World Health Statistics Annual.*

No. 1444. Health Expenditures—Selected Countries: 1980 and 1987

[G.D.P. = gross domestic product; for explanation, see text, section 14. For explanation of purchasing power parities, see text, section 31]

Country	Total health expenditures: Percent of G.D.P. 1980	Total health expenditures: Percent of G.D.P. 1987	Total health expenditures: Per capita, 1987 on basis of— Exchange rates	Total health expenditures: Per capita, 1987 on basis of— G.D.P. purchasing power parities	Public health expenditures, 1987— Percent of gross domestic product	Public health expenditures, 1987— Percent of total health expenditures [1]
United States	**9.2**	**11.2**	**$2,051**	**$2,051**	**4.6**	**41.4**
Australia	6.5	7.1	887	939	5.1	71.8
Austria	7.9	8.4	1,305	982	5.7	67.6
Belgium	6.6	7.2	1,048	879	5.6	76.9
Canada	7.4	8.6	1,376	1,483	6.4	74.8
Denmark	6.8	6.0	1,181	792	5.1	85.5
Finland	6.5	7.4	1,341	949	5.8	78.7
France	7.6	8.6	1,366	1,105	6.8	78.3
Greece	4.3	5.3	203	337	4.0	75.3
Iceland	6.4	7.8	1,573	1,241	6.9	88.6
Ireland	8.5	7.4	617	561	6.5	87.0
Italy	6.8	6.9	907	841	5.4	78.0
Japan	6.4	6.8	1,347	915	5.0	73.2
Luxembourg	6.8	7.5	1,201	1,050	6.8	91.6
Netherlands	8.2	8.5	1,233	1,041	6.6	77.8
New Zealand	7.2	6.9	731	733	5.7	82.5
Norway	6.6	7.5	1,473	1,149	7.3	97.6
Portugal	5.9	6.4	230	386	3.9	60.7
Spain	5.9	6.0	447	521	4.3	71.5
Sweden	9.5	9.0	1,690	1,233	8.1	90.6
Switzerland	7.3	7.7	[1] 1,991	1,225	5.3	68.0
Turkey	4.1	3.5	45	148	1.4	41.3
United Kingdom	5.8	6.1	723	758	5.3	86.6
West Germany	7.9	8.2	1,502	1,093	6.3	77.0

[1] Preliminary estimates.

Source: Organization for Economic Cooperation and Development, Paris, France, *Measuring Health Care, 1960-1983, Expenditure, Costs, and Performance,* November 1985, *Financing and Delivering Health Care, A Comparative Analysis of OECD Countries,* July 1987, and unpublished data.

No. 1445. Public Expenditure for Education and Illiteracy, by Selected Country

[**Expenditure:** Includes both capital and current expenditures on public education and subsidized private education. **Illiteracy:** Defined as inability both to read and write in any, or a specified, language. See text, section 31, for general comments concerning the data. For additional qualifications for individual countries, see source]

Country	Public expenditure for education: Year	Public expenditure for education: Percent of total public expenditure	Public expenditure for education: Percent of gross national product	Percent of adult population illiterate,[1] 1985
United States	**1985**	(NA)	[2] **6.7**	(NA)
Afghanistan	1987	4.0	(NA)	76.3
Algeria	1987	27.8	9.8	50.4
Argentina	1987	[3] 8.9	[3] 1.9	4.5
Australia	1986	12.6	5.8	(NA)
Bangladesh	1986	[3] 10.5	[3] 2.2	66.9
Brazil	1986	17.7	4.5	22.3
Burma	1977	12.2	1.6	(NA)
Canada	1987	15.4	7.2	(NA)
Chile	1987	(NA)	3.6	[4] 5.6
China: Mainland	1985	(NA)	2.7	30.7
Colombia	1987	[3] 22.4	[3] 2.7	11.9
Czechoslovakia	1987	8.0	(NA)	(NA)
East Germany	1987	[5] 5.4	[5] [6] 5.1	(NA)
Egypt	1987	(NA)	5.5	55.5
Ethiopia	1986	9.9	4.2	[4] [7] 44.8
France	1986	(NA)	[8] 5.7	(NA)
Ghana	1987	(NA)	[3] 3.4	46.8
Hungary	1987	6.3	5.6	(NA)
India	1986	(NA)	3.4	56.5
Indonesia	1981	9.3	2.0	25.9
Iran	1987	18.1	(NA)	49.2
Iraq	1987	6.4	(NA)	[4] [9] 10.7
Italy	1986	[3] 8.6	[3] 4.0	[4] 3.0
Japan	1986	17.7	5.0	(NA)
Kenya	1987	22.7	7.0	40.8
Malaysia	1987	(NA)	7.0	26.6
Mexico	1987	(NA)	3.4	[4] 9.7
Morocco	1987	25.5	8.3	66.9
Nepal	1985	10.8	2.8	74.4
Netherlands	1985	16.4	6.8	(NA)
Nigeria	1986	[10] 12.0	[10] 1.4	57.6
Pakistan	1987	(NA)	2.1	70.4
Peru	1987	(NA)	3.3	15.2
Philippines	1987	(NA)	2.0	14.3
Poland	1987	12.5	4.4	(NA)
Portugal	1987	(NA)	[3] 4.5	[4] 16.0
Romania	1985	(NA)	2.1	(NA)
Saudi Arabia	1987	13.6	(NA)	(NA)
South Korea	1987	26.6	4.2	(NA)
Soviet Union	1987	(NA)	[6] 7.3	(NA)
Spain	1987	(NA)	3.2	5.6
Sri Lanka	1987	(NA)	3.8	12.9
Sudan	1985	[5] 15.0	[5] 4.3	(NA)
Syria	1987	14.0	4.7	40.0
Tanzania	1987	9.7	4.1	(NA)
Thailand	1987	17.9	3.6	9.0
Turkey	1987	(NA)	[11] 1.7	[4] 25.8
Uganda	1987	[3] 22.5	[3] 3.9	42.7
United Kingdom	1986	(NA)	5.0	(NA)
Venezuela	1985	21.3	5.4	11.4
West Germany	1986	9.2	4.4	(NA)
Yugoslavia	1986	(NA)	3.8	8.8
Zaire	1980	[5] 32.3	[5] 3.4	38.8
Zimbabwe	1986	16.2	8.5	26.0

NA Not available. [1] Population, 15 years old and over. Estimated by source, except as noted. [2] Data refer to total public and private expenditure on education. [3] Ministry of Education expenditures only. [4] Estimates made by country itself. [5] Current expenditures only. [6] Percent of net material product. [7] Population, 10 years old and over. [8] Metropolitan France only. [9] Population, 15-45 years old. [10] Federal government expenditures only. [11] Expenditure on third level education is not included.

Source: United Nations Educational, Scientific, and Cultural Organization, Paris, France, *Statistical Yearbook* (copyright).

No. 1446. Gross National Product in Current and Constant (1987) Dollars and Per Capita: 1980 to 1987

[In billions of dollars, except per capita. For explanation of conversion to U.S. dollars, see headnote, table 1486. For explanation of gross national product (GNP), see text, section 14]

Country	Current dollars				Constant (1987) dollars						
									Per capita (dol.)		
	1980	1985	1986	1987	1980	1985	1986	1987	1980	1985	1987
United States	**2,732.0**	**4,015.0**	**4,240.0**	**4,527.0**	**3,750.0**	**4,258.0**	**4,379.0**	**4,527.0**	**16,470**	**17,800**	**18,570**
Afghanistan	3.1	[1] 3.3	[1] 3.1	[1] 3.1	4.2	[1] 3.5	[1] 3.2	[1] 3.1	281	250	217
Algeria	36.5	60.2	61.9	65.2	50.0	63.8	63.9	65.2	2,655	2,894	2,779
Argentina	60.3	66.6	73.4	76.9	82.7	70.7	75.8	76.9	2,930	2,328	2,467
Austria	76.7	107.7	112.1	116.8	105.2	114.2	115.8	116.8	13,940	15,110	15,440
Bangladesh	9.8	15.1	16.2	17.5	13.4	16.0	16.8	17.5	152	158	163
Belgium	94.6	126.0	132.8	137.6	129.8	133.7	137.2	137.6	13,180	13,560	13,940
Brazil	175.2	241.5	272.4	291.3	240.5	256.1	281.4	291.3	1,952	1,829	1,980
Bulgaria	43.0	57.8	62.3	64.8	59.1	61.3	64.3	64.8	6,679	6,848	7,229
Burma	4.9	8.2	8.7	9.4	6.7	8.7	9.0	9.4	201	233	241
Canada	241.8	353.6	374.0	402.1	332.0	375.0	386.3	402.1	13,790	14,780	15,550
Chile	12.4	14.9	15.7	17.1	17.0	15.8	16.2	17.1	1,528	1,310	1,375
China:											
Mainland [1]	179.0	377.0	416.6	470.7	245.8	399.9	430.2	470.7	250	382	438
Taiwan	43.0	[1] 75.9	[1] 88.4	[1] 101.3	59.1	[1] 80.4	[1] 91.3	[1] 101.3	3,322	4,173	5,126
Colombia	20.8	29.2	31.1	33.9	28.6	31.0	32.2	33.9	1,077	1,053	1,105
Czechoslovakia	100.2	137.8	144.5	151.3	137.5	146.1	149.2	151.3	9,014	9,427	9,709
East Germany	126.1	178.9	186.5	196.9	173.1	189.7	192.7	196.9	10,340	11,400	11,860
Egypt	34.6	60.2	64.0	71.2	47.5	63.8	66.1	71.2	1,125	1,299	1,370
Ethiopia	3.4	4.3	4.7	5.2	4.7	4.6	4.9	5.2	121	105	112
France	581.0	787.4	827.4	868.3	797.5	835.1	854.5	868.3	14,800	15,140	15,620
Ghana	3.4	4.2	4.6	4.9	4.6	4.5	4.7	4.9	425	346	354
Greece	32.8	43.9	45.3	46.7	45.0	46.5	46.8	46.7	4,665	4,684	4,677
Hungary	59.8	79.9	83.8	87.6	82.1	84.8	86.6	87.6	7,665	7,959	8,260
India	130.0	218.5	233.8	246.0	178.4	231.7	241.5	246.0	259	302	307
Indonesia	35.6	57.8	61.8	65.8	48.9	61.3	63.8	65.8	316	354	365
Iran	188.6	[1] 265.9	[1] 262.5	[1] 257.8	[1] 258.8	[1] 282.0	[1] 271.1	[1] 257.8	6,609	6,000	5,129
Iraq [1]	77.6	54.4	47.1	56.5	106.5	57.6	48.6	56.5	8,071	3,648	3,331
Italy	495.3	665.9	703.2	746.4	679.8	706.2	726.2	746.4	12,040	12,360	13,010
Japan	1,337.0	2,101.0	2,210.0	2,369.0	1,836.0	2,228.0	2,283.0	2,369.0	15,720	18,450	19,410
Kenya	4.4	6.4	7.0	7.6	6.1	6.8	7.2	7.6	362	330	340
Madagascar	1.5	1.8	1.8	1.8	2.1	1.9	1.9	1.8	240	185	170
Malaysia	16.1	25.6	26.8	29.0	22.1	27.1	27.7	29.0	1,605	1,761	1,803
Mexico	93.5	131.3	128.2	139.2	128.4	139.2	132.4	139.2	1,831	1,772	1,701
Morocco	9.4	13.6	15.0	15.6	12.9	14.4	15.5	15.6	629	622	642
Mozambique	1.3	1.3	1.3	1.2	1.8	1.4	1.4	1.2	148	99	85
Nepal	1.5	2.4	2.6	2.8	2.0	2.6	2.7	2.8	135	153	156
Netherlands	144.2	194.0	203.0	213.7	198.0	205.7	209.7	213.7	14,000	14,200	14,590
Nigeria	19.0	22.4	23.7	23.3	26.0	23.8	24.5	23.3	289	231	214
North Korea [1]	15.5	24.3	25.1	25.9	21.3	25.8	25.9	25.9	1,189	1,264	1,208
Pakistan	15.4	27.5	30.3	34.2	21.1	29.2	31.3	34.2	248	295	327
Peru	27.2	34.5	39.8	44.6	37.4	36.6	41.1	44.6	2,161	1,857	2,150
Philippines	24.7	30.3	31.7	34.6	33.9	32.1	32.8	34.6	666	551	563
Poland	182.8	243.8	257.5	259.5	250.9	258.6	265.9	259.5	7,052	6,951	6,879
Portugal	20.7	27.3	31.7	34.9	28.5	29.0	32.8	34.9	2,910	2,850	3,380
Romania	88.7	126.1	137.0	146.0	121.8	133.7	141.5	146.0	5,487	5,885	6,365
South Africa	54.0	69.4	72.1	77.1	74.2	73.6	74.5	77.1	2,545	2,246	2,248
South Korea	47.5	88.3	102.0	118.0	65.2	93.7	105.4	118.0	1,709	2,281	2,796
Soviet Union	1,541.0	2,197.0	2,357.0	2,460.0	2,115.0	2,330.0	2,434.0	2,460.0	7,940	8,356	8,662
Spain	178.6	246.7	263.2	284.0	245.2	261.7	271.8	284.0	6,540	6,778	7,282
Sri Lanka	3.7	5.9	6.2	6.5	5.0	6.2	6.4	6.5	338	388	398
Sudan	6.5	7.6	8.2	8.7	9.0	8.0	8.4	8.7	475	358	369
Sweden	100.6	139.7	146.4	155.0	138.1	148.2	151.2	155.0	16,610	17,750	18,490
Switzerland	116.6	164.3	171.7	179.4	160.1	174.3	177.3	179.4	25,080	26,690	27,300
Syria	15.9	23.0	26.4	28.2	21.8	24.4	27.3	28.2	2,505	2,354	2,532
Tanzania	1.9	2.6	2.7	2.8	2.7	2.7	2.8	2.8	141	124	120
Thailand	23.2	37.6	41.3	45.1	31.9	39.9	42.7	45.1	679	771	840
Turkey	32.8	53.3	59.1	65.5	45.0	56.5	61.0	65.5	996	1,115	1,235
Uganda	2.4	3.6	3.5	3.8	3.3	3.8	3.6	3.8	255	258	236
United Kingdom	411.6	586.5	620.7	667.0	565.0	622.0	641.0	667.0	10,030	10,990	11,730
Venezuela	28.8	33.2	37.2	38.4	39.5	35.2	38.4	38.4	2,630	2,029	2,098
West Germany	739.7	1,022.0	1,075.0	1,126.0	1,015.0	1,084.0	1,110.0	1,126.0	16,490	17,770	18,450
Yugoslavia	42.3	55.5	59.5	60.5	58.0	58.9	61.4	60.5	2,601	2,545	2,580
Zaire	3.8	4.8	5.1	5.3	5.2	5.1	5.3	5.3	193	167	165

[1] Estimated.

Source: U.S. Arms Control and Disarmament Agency, *World Military Expenditures and Arms Transfers*, annual. Data from International Bank for Reconstruction and Development and U.S. Central Intelligence Agency.

No. 1447. Organization for Economic Cooperation and Development (OECD)—Gross National Product, 1980 to 1988, and Change, 1980–1985 and 1985–1988

[For interpretation of the absolute levels of GNP and per capita GNP, the market exchange rates used in converting national currencies do not necessarily reflect the relative purchasing power in the various countries. As a consequence, it should not be concluded, for instance, that the United Kingdom's individual standard of living in 1988 was only 71 percent of that of the U.S., as the statistics may imply. Minus sign (–) indicates decrease. For explanation of annual percent change, see Guide to Tabular Presentation]

COUNTRY	GROSS NATIONAL PRODUCT (GNP)					GNP PER CAPITA					Inflation rate,[2] 1987–1988 (percent)
	Total in constant (1988) dollars (bil.)[1]			Annual percent change		In constant (1988) dollars[1]			Annual percent change		
	1980	1985	1988	1980–1985	1985–1988	1980	1985	1988	1980–1985	1985–1988	
United States	**3,859.4**	**4,389.6**	**4,880.6**	**2.6**	**3.6**	**16,945**	**18,345**	**19,813**	**1.6**	**2.6**	**3.3**
OECD Europe[3]	**4,626.3**	**5,003.3**	**5,464.3**	**1.6**	**3.0**	**11,750**	**12,420**	**13,355**	**1.1**	**2.4**	**4.9**
Belgium	132.4	137.0	147.4	.7	2.5	13,442	13,895	14,859	.6	2.2	1.2
Denmark	89.0	101.3	103.6	2.6	.7	17,383	19,824	20,195	2.6	.6	4.9
France	801.6	862.6	932.5	1.5	2.6	14,878	15,635	16,690	1.0	2.2	3.2
Greece	46.9	50.5	52.6	1.5	1.4	4,865	5,086	5,223	.9	.9	13.2
Ireland	25.6	26.2	27.6	.4	1.7	7,529	7,401	7,795	.3	1.8	2.2
Italy	675.9	735.2	809.6	1.7	3.3	11,978	12,869	14,095	1.4	3.1	5.9
Luxembourg	5.3	6.0	6.6	2.5	3.2	14,722	16,216	17,838	1.9	3.2	1.8
Netherlands	202.5	212.5	226.0	1.0	2.1	14,321	14,675	15,312	.5	1.4	1.6
Portugal	32.7	34.4	39.1	1.0	4.4	3,347	3,385	3,750	.2	3.6	11.5
Spain	275.5	295.0	337.6	1.4	4.6	7,339	7,662	8,645	.8	4.1	5.6
United Kingdom	652.0	719.4	807.8	2.0	3.9	11,575	12,705	14,152	1.9	3.7	6.6
West Germany	1,061.2	1,127.0	1,218.3	1.2	2.6	17,238	18,469	19,907	1.4	2.5	1.5
Austria	110.8	118.9	126.7	1.4	2.2	14,675	15,727	16,671	1.4	1.9	1.5
Finland	78.5	91.0	100.5	3.0	3.3	16,423	18,571	20,303	2.5	3.0	6.3
Iceland	4.6	5.1	5.7	2.1	3.8	20,000	21,250	22,800	1.2	2.4	25.4
Norway	71.6	84.4	89.1	3.4	1.8	17,506	20,337	21,214	3.1	1.4	2.9
Sweden	152.0	166.1	176.0	1.8	1.9	18,291	19,892	20,853	1.7	1.6	6.6
Switzerland	166.0	177.9	192.3	1.4	2.6	26,266	27,496	29,539	.9	2.4	3.0
Turkey	42.2	52.8	65.3	4.6	7.3	950	1,072	1,246	2.4	5.1	65.5
Australia	188.2	218.4	238.9	3.0	3.0	12,803	13,832	14,452	1.5	1.5	9.1
Canada	362.2	417.6	467.5	2.9	3.8	15,067	16,467	18,015	1.8	3.0	4.2
Japan	2,074.3	2,523.3	2,851.3	4.0	4.2	17,758	20,881	23,255	3.3	3.6	.4
New Zealand	34.8	41.3	40.7	3.5	–.5	11,190	12,708	12,371	2.6	–.9	7.9

[1] National currency values converted into dollars by the average 1988 Market Rate, as published by the International Monetary Fund, Washington, DC. [2] GNP or GDP (Gross Domestic Product) implicit price deflators; totals weighted by 1987 (base year) GNP. [3] See text, section 31.

Source: U.S. Department of State, Bureau of Intelligence and Research, *Economic Growth of OECD Countries, 1978–1988*, Report No. IRR 205 (Revised), 1989, and unpublished data.

No. 1448. Gross Domestic Product, Total and Per Capita, Using Purchasing Power Parities—Selected Countries: 1970 to 1987

[The goods and services produced in different countries should be valued consistently if the differences observed are meant to reflect real differences in the volumes of goods and services produced. The use of purchasing power parities (PPP) instead of exchange rates is intended to achieve this objective. PPP's show how many units of currency are needed in one country to buy the same amount of goods and services which one unit of currency will buy in the other country. For further explanation of PPP, see text, section 31]

COUNTRY	GROSS DOMESTIC PRODUCT (bil. dol.)						GROSS DOMESTIC PRODUCT PER CAPITA (dollars)					
	1970	1975	1980	1985	1986	1987	1970	1975	1980	1985	1986	1987
United States	**1,009.2**	**1,583.9**	**2,688.5**	**3,967.5**	**4,191.5**	**4,472.9**	**4,922**	**7,334**	**11,804**	**16,581**	**17,349**	**18,338**
OECD Europe[1]	**1,050.6**	**1,713.3**	**2,859.0**	**3,978.8**	**4,196.8**	**4,452.1**	**2,849**	**4,473**	**7,266**	**9,874**	**10,362**	**10,934**
Belgium	28.6	47.6	79.9	105.9	110.8	116.5	2,959	4,856	8,114	10,743	11,231	11,802
Denmark	17.1	26.5	43.4	63.3	67.1	68.4	3,468	5,232	8,460	12,369	13,094	13,329
France	166.4	277.4	468.3	645.9	676.4	712.2	3,278	5,265	8,692	11,707	12,210	12,803
Greece	13.5	24.3	43.6	59.7	62.0	63.6	1,539	2,689	4,520	6,009	6,218	6,363
Ireland	5.4	9.4	17.0	24.4	25.1	26.7	1,824	2,965	5,007	6,883	7,101	7,541
Italy	162.5	257.2	449.5	626.4	661.2	702.5	3,028	4,640	7,967	10,966	11,555	12,254
Luxembourg	1.2	2.0	3.3	4.8	5.2	5.5	3,620	5,596	8,985	13,143	14,041	14,705
Netherlands	45.0	74.1	122.0	164.3	172.1	179.7	3,454	5,421	8,620	11,339	11,811	12,252
Portugal	12.2	21.2	39.6	53.2	56.9	61.4	1,444	2,426	4,261	5,516	5,860	6,297
Spain	74.6	135.1	213.2	292.5	309.9	337.1	2,203	3,803	5,702	7,597	8,015	8,681
United Kingdom	179.1	280.7	442.2	621.2	656.9	702.5	3,219	4,993	7,852	10,971	11,573	12,340
West Germany	205.0	319.1	544.1	738.7	775.5	814.7	3,380	5,161	8,838	12,105	12,696	13,323
Austria	20.3	34.5	59.1	81.2	84.4	88.4	2,714	4,557	7,832	10,745	11,163	11,664
Finland	13.2	22.6	38.0	56.4	59.2	63.3	2,861	4,802	7,948	11,509	12,035	12,838
Iceland	.6	1.1	2.3	3.2	3.5	3.8	2,938	5,247	9,911	13,161	14,239	15,508
Norway	11.9	20.9	38.4	58.0	62.0	64.5	3,063	5,227	9,390	13,963	14,871	15,405
Sweden	30.6	48.8	75.4	105.7	109.6	115.7	3,801	5,958	9,077	12,655	13,092	13,771
Switzerland	29.9	43.7	68.8	94.3	99.5	104.9	4,770	6,829	10,775	14,436	15,133	15,842
Turkey	33.6	66.9	111.0	179.7	199.7	220.9	945	1,658	2,482	3,606	3,922	4,247
Australia	43.5	74.3	122.9	182.3	191.0	204.9	3,398	5,351	8,364	11,545	11,922	12,612
Canada	83.0	150.4	263.8	389.4	412.0	441.5	3,893	6,617	10,959	15,464	16,236	17,211
Japan	286.8	498.0	918.0	1,425.4	1,497.3	1,609.4	2,765	4,466	7,859	11,805	12,325	13,182
New Zealand	9.3	16.1	22.6	33.1	35.1	35.3	3,303	5,217	7,180	10,106	10,714	10,680

[1] See text, section 31.

Source: Organization for Economic Cooperation and Development, Paris, France, *National Accounts of OECD Countries*, vol. I, annual.

No. 1449. Food and Beverage Expenditures as a Percent of Total Private Consumption Expenditures—Selected Countries: 1986

COUNTRY	Total	Food	Non-alcoholic beverages	Alcoholic beverages	COUNTRY	Total	Food	Non-alcoholic beverages	Alcoholic beverages
United States	**12.3**	**10.4**	**.6**	**1.3**	Israel	29.2	26.8	1.8	.6
United Kingdom	16.2	13.7	.6	1.9	Switzerland	25.5	20.2	1.2	4.1
Canada	15.1	11.5	.6	3.0	Italy	23.1	21.5	.3	1.3
Netherlands	16.8	14.4	.5	1.9	Spain	27.7	26.2	.4	1.1
France	19.4	16.8	.5	2.1	South Africa	33.5	27.6	1.5	4.6
Australia	20.6	15.5	.3	4.8	Mexico [1]	35.3	31.9	1.2	2.2
Austria	20.7	17.5	.7	2.5	Portugal [2]	35.8	32.9	.3	2.6
Denmark	20.5	16.4	.6	3.5	Soviet Union	38.0	28.0	(NA)	10.0
West Germany	20.5	16.8	.6	3.1	Ireland [3]	38.6	24.8	1.5	12.3
Japan	20.6	18.8	.6	1.2	South Korea	40.5	36.3	.9	3.3
Sweden	21.7	17.9	.4	3.4	Greece	38.7	34.6	1.4	2.7
Belgium	19.6	17.7	.5	1.4	Philippines	54.0	51.5	.8	1.7
Norway	22.8	18.9	1.0	2.9	India	55.7	53.3	.9	1.5
Finland	23.3	18.8	.5	4.0					

NA Not available. [1] Data for 1984. [2] Data for 1981. [3] Data for 1985.

Source: U.S. Dept. of Agriculture, Economic Research Service. Based on data from United Nations, New York, NY, *National Accounts Statistics*, annual; and various country yearbooks.

No. 1450. Per Capita Consumption of Wheat—Selected Countries: 1974 to 1989

[**In kilograms per year.** Averages of crop years beginning in year shown. Excludes feed use but includes seed and industrial use]

COUNTRY	1974-1976	1979-1981	1987	1988	1989, proj.	COUNTRY	1974-1976	1979-1981	1987	1988	1989, proj.
World	**73.3**	**78.3**	**84.3**	**82.9**	**82.2**	Developing—Con.					
						Middle East	177.4	195.3	190.0	183.2	183.5
Developed	91.7	90.8	91.7	87.3	87.5	Iraq	163.8	192.9	203.3	212.4	207.6
United States	**83.2**	**84.2**	**89.9**	**79.8**	**81.7**	Turkey	232.7	265.1	259.4	256.0	266.4
Western Europe	110.3	109.5	109.8	111.2	110.6	South Asia	50.1	56.7	68.5	69.5	67.7
Japan	49.9	50.3	49.2	47.1	47.0	India	43.2	50.0	63.3	63.7	61.2
South Africa	63.9	62.8	65.5	56.3	56.6	Pakistan	120.1	125.2	129.8	136.3	140.4
						Other Asia	14.0	16.1	22.0	22.0	22.3
Centrally planned	99.2	110.9	126.2	126.0	125.6	Indonesia	6.0	8.5	8.9	8.7	9.1
Eastern Europe	166.2	168.9	174.8	183.1	175.8	Thailand	2.1	4.0	3.7	4.2	4.2
Soviet Union	233.5	228.6	214.8	210.8	212.3						
China: Mainland	52.8	71.5	96.1	96.3	97.0	North Africa	160.1	175.6	178.3	187.4	186.8
						Algeria	174.4	182.5	203.3	212.0	205.7
Developing	49.6	54.7	61.9	62.1	61.6	Egypt	148.3	170.9	160.1	170.4	173.9
Latin America	57.6	58.4	56.4	56.4	55.3						
Mexico	45.3	46.1	45.2	42.2	42.9	Other Africa	10.7	13.7	15.4	14.0	13.7
Brazil	48.2	52.8	48.3	51.8	49.9	Nigeria	7.0	15.6	3.7	2.4	2.7
						Sudan	27.5	27.9	37.4	32.3	35.5

Source: U.S. Dept. of Agriculture, Economic Research Service, *World Agriculture, Situation and Outlook Report* (WAS-47), March 1987 and unpublished data.

No. 1451. Per Capita Consumption of Beef, Pork, and Poultry—Leading Countries: 1986

[**In pounds per capita, except as indicated.** Beef, veal and pork quantities are in carcass-weight equivalents; poultry quantities are on ready-to-cook basis]

COUNTRY	BEEF AND VEAL		COUNTRY	PORK		COUNTRY	POULTRY	
	Quantity	Rank		Quantity	Rank		Quantity	Rank
Argentina	183.6	1	Hungary	144.2	1	Saudi Arabia	83.8	1
Uruguay	133.8	2	Denmark	139.3	2	Israel	74.3	2
United States	**110.2**	**3**	East Germany	128.3	3	**United States**	**73.0**	**3**
Australia	92.8	4	Czechoslovakia	117.5	4	Hong Kong	63.3	4
Canada	90.4	5	West Germany	116.4	5	United Arab Emirates	63.3	5
New Zealand	78.3	6	Austria	113.8	6	Kuwait	58.4	6
France	68.1	7	Belgium-Luxembourg	103.8	7	Canada	57.1	7
Italy	64.6	8	Hong Kong	100.8	8	Australia	50.5	8
Soviet Union	60.4	9	Switzerland	98.8	9	Hungary	48.7	9
Switzerland	60.4	10	Netherlands	94.1	10	Spain	44.5	10
Czechoslovakia	57.1	11	Bulgaria	91.9	11	Venezuela	43.4	11
Belgium-Luxembourg	56.0	12	China: Taiwan	83.8	12	China: Taiwan	43.0	12
Panama	54.5	13	Poland	75.4	13	France	41.0	13
East Germany	54.5	14	France	74.7	14	United Kingdom	38.1	14
West Germany	52.0	15	Singapore	72.5	15	Romania	37.3	15
			United States	**62.8**	**22**			

Source: U.S. Dept. of Agriculture, Foreign Agricultural Service, *World Livestock Situation*, October 1988.

No. 1452. Percent of Households Owning Selected Appliances—Selected Countries: 1987

APPLIANCE	United States [1]	Belgium	Denmark	France	Italy	Netherlands	Spain	Sweden	Switzerland	United Kingdom	West Germany
Cassette recorder	(NA)	53	72	66	52	74	38	68	86	80	86
Clothes washer	73	87	62	85	92	88	94	69	68	82	76
Dishwasher	43	18	21	24	20	8	10	28	27	7	74
Food processor	(NA)	86	81	78	22	81	48	70	88	57	87
Freezer (separate)	(NA)	56	62	34	42	47	16	68	67	65	78
Microwave oven	61	8	6	8	10	15	2	16	14	30	16
Radio	(NA)	90	98	98	92	97	95	93	99	90	84
Range: Electric	57	46	(NA)	12	6	10	[2] 93	[3] 93	14	60	98
Refrigerator	86	94	84	97	88	98	[4] 94	[4] 96	96	93	91
Television set:											
Color/mono	129	95	96	98	94	97	96	90	88	98	93
Vacuum cleaner	(NA)	93	73	90	80	99	46	97	97	95	98
Video recorder	(NA)	13	15	10	9	20	6	10	14	49	30

NA Not available. [1] Represents appliances possessed and generally used by the household (as of November). Source: U.S. Energy Information Administration, *Annual Energy Review*, 1988. [2] Includes gas ranges. [3] 1984 data. [4] Includes refrigerator/freezers.

Source: Except as noted, Euromonitor Publications Limited, London, England, *European Marketing Data and Statistics*, annual. (Copyright.)

No. 1453. World Motor Vehicle Registrations—Selected Countries: 1975 to 1987

[In millions, except as indicated]

COUNTRY	1975	1980	1986	1987		
				Total vehicles [1]	Cars	
					Number	Persons per car
World, total [2]	**327.9**	**411.1**	**499.7**	**515.4**	**394.2**	**12.8**
United States	**133.0**	**155.9**	**176.2**	**179.0**	**137.3**	**1.8**
Brazil	6.7	10.2	11.9	11.9	9.5	16.0
Canada	11.0	13.2	14.7	14.7	11.5	2.2
China:						
Mainland	.7	.9	3.6	4.1	1.0	1,075
France	17.9	21.7	24.4	24.9	22.0	2.5
India	1.4	1.5	2.7	2.9	1.5	566
Italy	16.3	19.1	23.9	24.7	22.8	2.5
Japan	28.1	37.9	48.0	49.9	29.5	4.2
Mexico	3.3	4.8	7.5	7.8	5.4	16.0
Nigeria	.3	.9	1.4	1.4	.8	149
Pakistan	.3	.4	.3	.3	.3	404
Philippines	.7	1.1	.5	.9	.4	173
Poland	1.6	3.1	4.9	4.9	4.0	9.6
South Africa	3.0	3.5	4.3	4.2	3.1	12.0
South Korea	.2	.5	1.3	1.6	.8	54.0
Soviet Union	9.8	15.5	20.2	21.7	13.0	22.0
Spain	5.9	8.9	11.4	12.1	10.2	3.9
Thailand	.5	.9	1.5	1.5	.6	96.0
Turkey	.7	1.1	1.7	1.8	1.2	46.0
United Kingdom	16.4	17.4	19.9	23.0	20.1	2.8
West Germany	19.5	24.8	29.0	30.1	28.3	2.1

[1] Includes trucks and buses, not shown separately. [2] Includes other countries, not shown separately.

Source: Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *MVMA Motor Vehicle Facts & Figures*, annual.

No. 1454. Percentage of Population Served by Waste Water Treatment Plants—Selected Countries: 1970 to 1987

[Primary: Removal of 20–30 percent of the biological oxygen demand (BOD) or more; Secondary: Removal of 80–90 percent of BOD or more; Tertiary: Removal of 95 percent of BOD or more]

COUNTRY	PERCENTAGE OF POPULATION SERVED, TOTAL				PRIMARY TREATMENT ONLY				PRIMARY AND SECONDARY AND/OR TERTIARY TREATMENT			
	1970	1980	1985	1987	1970	1980	1985	1987	1970	1980	1985	1987
United States [1]	**42.0**	**70.0**	[2] **74.0**	(NA)	(NA)	**17.0**	[2] **15.0**	(NA)	(NA)	**53.0**	[2] **59.0**	(NA)
Belgium	3.8	[3] 22.9	(NA)	(NA)	–	[3] –	(NA)	(NA)	3.8	[3] 22.9	(NA)	(NA)
Canada [4]	(NA)	56.0	57.0	62.6	(NA)	13.0	10.0	14.7	(NA)	43.0	47.0	51.5
France	19.0	43.0	[2] 49.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Italy	[5] 14.0	30.0	(NA)	(NA)	[5] 8.0	(NA)	(NA)	(NA)	[5] 6.0	(NA)	(NA)	(NA)
Japan	16.0	30.0	[2] 36.0	39.0	(NA)	(NA)	(NA)	(NA)	[6] 16.0	[6] 30.0	[2] [6] 36.0	[6] 39.0
Netherlands	(NA)	68.0	85.0	90.0	(NA)	7.0	7.0	7.0	(NA)	61.0	78.0	83.0
Spain	(NA)	17.9	29.0	(NA)	(NA)	8.8	13.2	(NA)	(NA)	9.1	15.8	(NA)
Sweden [7]	78.0	99.0	100.0	100.0	23.0	1.0	1.0	1.0	55.0	98.0	99.0	99.0
Switzerland	35.0	70.0	81.0	85.0	–	–	–	–	35.0	70.0	81.0	85.0
United Kingdom [8]	(NA)	82.0	83.0	84.0	(NA)	6.0	6.0	6.0	(NA)	76.0	77.0	78.0
West Germany	[9] 61.8	81.8	[10] 86.5	(NA)	[9] 20.5	10.2	[10] 7.5	(NA)	[9] 41.3	71.6	[10] 79.0	(NA)

Represents zero. NA Not available. [1] Beginning 1980, data not comparable with 1970 data and data for secondary treatment include 1 percent and 2 percent of non-discharge treatment. Primary treatment may provide some biological treatment. Secondary is preliminary treatment plus biological process with no additional treatment except disinfection. [2] 1984 data. [3] 1979 data. [4] Secondary usually includes private treatment and includes waste stabilization ponds. Tertiary refers to secondary treatment with phosphorus removal. [5] 1971 data. [6] Data for secondary category may include data for primary treatment only. [7] Urban population only (85 percent of total). Primary: Removal of sediments; Secondary: Chemical or biological treatment; Tertiary: Chemical, biological and complementary treatment. [8] England and Wales only. Primary: Removal of gross solids; Secondary: Aerobic removal of organic material or bacteria; Tertiary: Removal of suspended solids following secondary treatment. [9] 1969 data. [10] 1983 data.

Source: Organization for Economic Cooperation and Development, Paris, France, *Environmental Data Compendium, 1989*.

No. 1455. Communications—Telephones, Newspapers, Television, and Radio, by Country

[See text, section 31, for general comments about the data. For additional data qualifications for countries, see source]

COUNTRY	Telephones per 100 population,[1] 1987	Daily newspaper circulation, copies per 1,000 population,[2] 1986	Television receivers per 1,000 population,[3] 1987	Radio receivers per 1,000 population,[4] 1987
United States	[5] **76.0**	**259**	**811**	**2,119**
Algeria	3.8	36	70	227
Argentina	11.6	(NA)	217	659
Australia	[6] 55.0	264	483	1,270
Austria	52.5	358	480	[7] 358
Bangladesh	[8] .1	7	3	40
Belgium	47.8	221	[7] 320	[7] 465
Bolivia	[9] 2.9	[5] 50	77	527
Brazil	9.3	[6] 48	191	368
Bulgaria	[10] 20.0	316	[7] 189	[7] 221
Burma	[10] .1	[5] 74	1	79
Cambodia	(NA)	(NA)	[9] 7	[9] 106
Canada	78.0	225	577	953
Chile	6.5	[8] 115	163	335
China:				
Mainland	.7	[5] 29	17	184
Taiwan	[9] 31.1	(NA)	(NA)	(NA)
Colombia	8.0	(NA)	108	167
Costa Rica	14.7	[5] 72	79	258
Cuba	5.4	107	193	334
Cyprus	39.8	124	132	250
Czechoslovakia	24.6	332	[7] 285	[7] 256
Denmark	86.4	367	[7] 386	[7] 451
Dominican Republic	[11] 2.9	42	79	164
East Germany	23.3	570	754	663
Ecuador	3.6	[8] 64	81	292
Egypt	2.8	50	83	310
El Salvador	2.7	(NA)	82	401
Ethiopia	.3	1	2	193
Finland	[5] 61.7	543	[7] 374	991
France	[6] 60.8	193	[7] 333	893
Ghana	.6	[5] 35	13	293
Greece	41.3	(NA)	[7] 175	411
Guatemala	[8] 1.6	(NA)	37	65
Honduras	1.2	65	67	376
Hong Kong	47.0	(NA)	241	633
Hungary	15.2	262	402	586
Iceland	[10] 52.5	[5] 469	[7] 297	[7] 620
India	[12] .6	28	[7] 7	77
Indonesia	.5	16	40	145
Iran	[13] 3.9	[5] 22	53	236
Iraq	[8] 5.6	(NA)	64	199
Ireland	[5] 26.5	181	[7] 228	580
Israel	[12] 44.5	(NA)	264	470
Italy	[14] 48.8	99	[7] 257	786
Jamaica	[9] [12] 6.0	45	108	400
Japan	[6] [12] 55.5	566	587	863
Kenya	1.4	13	6	90
Kuwait	18.1	[9] 197	261	327
Lebanon	(NA)	(NA)	302	772
Luxembourg	[15] 41.2	(NA)	249	621
Madagascar	[9] .4	6	6	193
Malaysia	9.1	323	140	436
Mexico	[9] 9.6	127	120	241
Morocco	1.5	(NA)	[7] 56	206
Netherlands	63.9	[5] 310	469	908
New Zealand	[12] 69.7	328	369	923
Nicaragua	[5] 1.6	[5] 47	60	237
Nigeria	[8] .3	[8] 6	6	163
Norway	[5] 62.2	530	[7] 348	790
Pakistan	.7	(NA)	14	86
Panama	10.7	[8] 61	163	220
Paraguay	2.5	(NA)	24	165
Peru	[9] 3.1	(NA)	84	241
Philippines	[6] 1.5	(NA)	36	135
Poland	12.2	200	[7] 263	[7] 289
Portugal	20.2	47	[7] 159	212
Puerto Rico	[9] [12] 20.3	171	247	675
Romania	(NA)	159	[7] 166	288
Saudi Arabia	[5] 11.3	(NA)	268	272
Singapore	44.2	357	[7] 214	[7] 306
South Africa	[12] 14.3	45	97	319
South Korea	25.5	(NA)	194	986
Soviet Union	[6] 11.3	442	314	685
Spain	39.6	75	368	295
Sri Lanka	.8	31	31	187
Sudan	[5] .4	[5] 5	52	229
Sweden	[10] 89.0	534	[7] 395	875
Switzerland	[9] 85.6	500	405	[7] 400
Syria	5.9	15	58	231
Thailand	[9] 1.9	(NA)	103	174
Trinidad and Tobago	[10] 9.6	146	290	457
Tunisia	4.1	[5] 39	68	171
Turkey	9.1	(NA)	172	160
United Kingdom	[6] [12] 52.4	421	434	1,145
Uruguay	14.9	(NA)	173	594
Venezuela	9.2	[8] 186	142	395
West Germany	65.0	344	[7] 385	954
Yugoslavia	[9] 15.4	108	[7] 175	[7] 194
Zimbabwe	3.2	24	22	85

NA Not available. [1] As of December 31, except as noted. Comprises public and private telephones installed which can be connected to a central exchange. [2] Publications containing general news and appearing at least 4 times a week; may range in size from a single sheet to 50 or more pages. Circulation data refer to average circulation per issue or number of printed copies per issue and include copies sold outside the country. [3] Estimated number of sets in use, except as noted. [4] Data cover estimated number of receivers in use, except as noted, and apply to all types of receivers for radio broadcasts to the public, including receivers connected to a radio "redistribution system" but excluding television sets. [5] For 1984. [6] For 1985. [7] Number of licenses issued. [8] For 1982. [9] For 1986. [10] For 1983. [11] For 1980. [12] As of March 31. [13] As of March 21. [14] Includes San Marino. [15] For 1981.

Source: Except Taiwan, Statistical Office of the United Nations, New York, NY, *Statistical Yearbook* (copyright), and United Nations Educational, Scientific, and Cultural Organization, Paris, France, *Statistical Yearbook* (copyright); Taiwan, U.S. Bureau of the Census. Data from Republic of China publications.

No. 1456. Tax Revenues—Selected Countries: 1980 to 1987

[Covers national and local taxes and Social Security contributions. GDP – Gross domestic product; see text, section 14]

Country	Tax revenues, 1987		Percent change in total tax revenue as expressed in national currency					Tax revenues as percent of GDP				
	Total (bil. dol.)	Per capita (dol.)	1980–1985	1983–1984	1984–1985	1985–1986	1986–1987	1980	1984	1985	1986	1987
United States	**1,316.1**	**5,396**	**46.5**	**11.1**	**9.8**	**5.4**	**10.1**	**29.5**	**28.4**	**29.2**	**28.9**	**30.0**
Australia	64.6	3,975	80.4	16.8	10.9	12.6	13.8	29.0	30.7	30.4	31.0	31.3
Austria	49.6	6,550	41.8	9.6	7.3	5.1	2.8	41.2	42.4	43.1	42.9	42.3
Belgium	65.8	6,665	47.0	9.8	7.3	3.8	4.9	43.5	46.3	46.5	45.8	46.1
Canada	146.5	5,710	59.1	8.9	7.5	7.1	12.8	31.6	32.9	32.9	33.2	34.5
Denmark	52.6	10,257	77.4	12.9	12.2	12.2	6.4	45.5	47.6	49.0	51.0	52.0
Finland	32.1	6,515	95.1	17.6	12.8	10.6	3.0	33.0	35.5	36.8	38.1	35.9
France	394.9	7,099	78.4	11.4	7.5	6.7	6.5	41.7	44.6	44.5	44.1	44.8
Greece	17.6	1,764	223.3	29.6	22.4	25.5	17.1	29.4	34.9	35.2	36.8	37.4
Ireland	11.7	3,307	112.2	13.5	5.2	8.4	7.5	34.0	39.0	38.4	39.5	39.9
Italy	273.9	4,778	139.2	11.5	10.6	15.7	9.7	30.2	34.8	34.4	36.1	36.2
Japan	727.5	5,959	43.5	7.4	8.2	7.4	9.4	25.5	27.4	28.0	28.9	30.2
Luxembourg	3.0	8,084	68.8	6.5	9.2	3.9	4.4	40.9	43.2	43.6	42.8	43.8
Netherlands	102.9	7,012	21.7	1.1	4.3	5.0	5.7	45.8	45.0	44.9	45.9	48.0
New Zealand	13.5	4,076	100.5	13.6	19.0	21.8	23.3	33.1	32.9	33.9	34.9	38.6
Norway	39.9	9,546	77.3	10.7	14.8	7.9	4.8	47.1	45.8	47.6	49.9	48.3
Portugal	11.6	1,185	209.3	19.9	22.8	32.4	10.3	28.7	32.2	31.6	33.4	31.4
Spain	95.5	2,459	121.7	18.4	10.5	22.0	19.1	24.1	29.2	29.1	31.0	33.0
Sweden	89.9	10,707	68.0	11.3	9.6	15.0	13.9	49.4	50.3	50.6	53.7	56.7
Switzerland	54.7	8,267	39.2	7.1	5.8	8.5	3.1	30.8	32.3	32.0	32.5	32.0
Turkey	16.4	315	477.4	32.0	71.8	65.2	57.0	21.7	17.3	19.7	22.8	24.1
United Kingdom	253.4	4,451	64.4	7.7	9.3	8.8	6.7	35.3	37.8	37.8	38.5	37.5
West Germany	420.7	6,880	23.6	5.3	5.6	4.6	4.0	38.0	37.5	38.0	37.6	37.6

Source: Organization for Economic Cooperation and Development, Paris, France, *Revenue Statistics of OECD Member Countries*, annual.

No. 1457. Percent Distribution of Tax Receipts, by Type of Tax—Selected Countries: 1980 to 1987

Country and year	Total [1]	Income and profits taxes [2]			Social security contributions			Taxes on goods and services [5]		
		Total [3]	Individual	Corporate	Total [4]	Employees	Employers	Total [3]	General consumption taxes [6]	Taxes on specific goods, services [7]
United States: 1980	100.0	47.0	36.9	10.2	26.2	10.0	15.5	16.6	6.6	7.8
1986	100.0	42.4	35.4	7.0	29.8	11.5	17.3	17.5	7.6	7.5
1987	100.0	44.3	36.2	8.1	28.8	11.1	16.6	16.7	7.4	7.2
Canada: 1980	100.0	46.6	34.1	11.6	10.5	3.7	6.6	32.5	11.5	13.0
1986	100.0	45.8	37.0	8.0	13.7	4.7	8.8	29.5	14.5	11.1
1987	100.0	47.3	38.7	8.0	13.3	4.6	8.5	28.9	14.1	11.2
France: 1980	100.0	18.1	12.9	5.1	42.7	11.1	28.4	30.4	21.0	8.4
1986	100.0	17.9	12.8	5.0	42.9	11.9	27.5	29.3	19.4	8.9
1987	100.0	18.0	12.7	5.2	43.0	12.3	27.2	29.3	19.5	8.9
Italy: 1980	100.0	31.1	23.1	7.8	38.0	6.9	28.4	26.5	15.6	9.7
1986	100.0	36.2	27.8	10.6	34.4	6.7	24.4	26.1	14.7	10.3
1987	100.0	36.1	26.3	10.5	34.3	6.7	24.1	26.4	14.6	10.3
Japan: 1980	100.0	46.1	24.3	21.8	29.1	10.2	14.8	16.3	–	14.1
1986	100.0	45.7	25.0	20.7	29.8	10.8	15.4	13.3	–	11.4
1987	100.0	47.0	24.0	22.9	28.6	10.2	14.8	12.9	–	11.1
Netherlands: 1980	100.0	32.8	26.3	6.6	38.1	15.7	17.8	25.2	15.8	7.3
1986	100.0	27.5	20.2	7.3	42.9	18.0	17.8	25.8	16.4	7.2
1987	100.0	27.4	19.7	7.7	42.7	18.8	17.0	26.0	16.4	7.4
Sweden: 1980	100.0	43.5	41.0	2.5	28.8	–	27.6	24.0	13.4	9.2
1986	100.0	42.7	38.0	4.7	25.1	–	24.1	24.7	13.3	10.2
1987	100.0	41.3	37.2	4.1	24.2	–	23.3	24.1	13.3	9.8
United Kingdom: 1980	100.0	37.8	29.4	8.4	16.6	6.4	9.8	29.4	14.5	13.3
1986	100.0	38.3	28.0	10.3	18.0	8.4	9.2	31.0	15.5	13.7
1987	100.0	37.2	26.6	10.6	18.1	8.3	9.4	31.4	16.1	13.6
West Germany: 1980	100.0	35.1	29.6	5.5	34.4	15.3	18.5	27.1	16.6	9.3
1986	100.0	34.5	28.6	6.0	37.2	16.1	19.1	25.2	15.3	8.6
1987	100.0	34.0	29.0	5.0	37.3	16.1	19.1	25.4	15.7	8.6

– Represents zero. [1] Includes property taxes, employer payroll taxes other than social security contributions, and miscellaneous taxes, not shown separately. [2] Includes taxes on capital gains. [3] Includes other taxes, not shown separately. [4] Includes contributions of self-employed, not shown separately. [5] Taxes on the production, sales, transfer, leasing, and delivery of goods and services and rendering of services. [6] Primarily value-added and sales taxes. [7] For example, excise taxes on alcohol, tobacco, and gasoline.

Source: Organization for Economic Cooperation and Development, Paris, France, *Revenue Statistics of OECD Member Countries*, annual.

No. 1458. Employee-Employer Payroll Tax Rates For Social Security Programs—Selected Countries: 1980 to 1987

[In percent. Covers old-age, disability and survivors insurance, public health or sickness insurance, workers' compensation, unemployment insurance, and family allowance programs]

Country	All social security programs					Old-age, disability and survivors insurance				
	1980, total	1985, total	1987			1980, total	1985, total	1987		
			Total	Employer	Employee			Total	Employer	Employee
United States	**16.81**	**18.90**	**19.50**	**12.35**	**7.15**	**10.16**	**11.40**	**11.40**	**5.70**	**5.70**
Canada	8.44	[1] 9.24	[1] 9.44	[1] 5.19	[1] 4.25	3.60	3.60	3.8	1.9	1.9
France	48.45	51.33	52.84	38.03	14.81	[2] 12.90	[2] 14.00	[2] 14.70	[2] 8.20	[2] 6.50
Italy	55.02	55.91	58.90	50.40	8.50	24.46	24.36	25.56	[3] 18.41	7.15
Japan	20.57	25.50	25.74	14.79	10.95	9.10	12.40	12.40	6.20	6.20
Sweden	32.43	31.66	32.06	32.06	-	20.80	19.95	20.15	20.15	-
United Kingdom	20.45	19.45	19.45	10.45	9.00	(NA)	(NA)	(NA)	(NA)	(NA)
West Germany	34.00	34.30	38.00	19.70	18.30	18.00	18.70	18.70	9.35	9.35

- Represents zero. NA Not available. [1] Excludes work-injury compensation program. [2] Disability and survivors benefits financed through sickness insurance. [3] Excludes termination indemnity.

Source: U.S. Social Security Administration, Office of International Policy, unpublished data.

No. 1459. Consumer Prices—Annual Percent Changes, by Country: 1983 to 1988

[See text, section 31, for general comments concerning the data. For additional qualifications of the data for individual countries, see source. Minus sign (−) indicates decrease]

Country	1983–1984	1984–1985	1985–1986	1986–1987	1987–1988	Country	1983–1984	1984–1985	1985–1986	1986–1987	1987–1988
United States	**4.3**	**3.6**	**1.9**	**3.7**	**4.0**	Kenya	10.2	13.0	4.0	5.2	8.3
						Malaysia	3.9	.3	.7	.9	2.0
Argentina	626.7	672.1	90.1	98.2	(NA)	Mexico	65.5	57.7	86.2	131.8	114.2
Australia	4.0	6.7	9.1	8.5	7.2	Netherlands	3.3	2.2	.2	3.8	2.6
Austria	5.7	3.2	1.7	1.4	1.9	Nigeria	39.6	5.5	5.4	10.2	38.3
Bangladesh	10.5	10.7	11.0	9.5	9.3	Norway	6.3	5.7	7.2	8.7	6.7
Belgium	6.3	4.9	1.3	1.6	1.2	Pakistan	6.1	5.6	3.5	4.7	6.8
Bolivia	1,281	11,750	276.3	15.0	16.0	Peru	110.2	163.4	77.9	85.8	(NA)
Brazil	197.0	226.9	145.2	229.7	682.3	Philippines	50.3	23.1	.8	3.8	8.8
Canada	4.3	4.0	4.2	4.4	4.0	Portugal	28.9	19.6	11.7	9.4	9.6
Chile	19.9	30.7	19.5	19.9	14.7	Romania	1.1	−.4	−.1	(NA)	(NA)
Colombia	16.1	24.0	18.9	23.3	28.1	South Africa	11.7	16.2	18.6	16.1	12.8
Ecuador	31.2	28.0	23.0	29.5	58.2	South Korea	2.3	2.5	2.8	3.0	7.1
Egypt	17.1	13.3	22.6	19.7	17.7	Spain	11.3	8.8	8.8	5.3	4.8
France	7.4	5.8	2.5	3.3	2.7	Sri Lanka	16.6	1.5	8.0	7.7	14.0
Ghana	39.7	10.3	24.6	39.6	31.4	Sweden	8.0	7.4	4.2	4.2	5.8
Greece	18.4	19.3	23.0	16.4	13.5	Switzerland	2.9	3.4	.8	1.4	1.9
Guatemala	3.4	18.7	36.9	12.3	10.8	Thailand	.9	2.4	1.8	2.5	3.9
India	8.3	5.6	8.7	8.8	9.4	Turkey	48.4	45.0	34.6	38.8	(NA)
Indonesia	10.5	4.7	5.8	9.3	8.0	United Kingdom	5.1	6.1	3.4	4.2	4.9
Iran	12.5	4.4	(NA)	(NA)	(NA)	Venezuela	12.2	11.4	11.5	28.1	29.5
Israel	373.8	304.6	48.1	19.9	16.2	West Germany	2.4	2.2	−.2	.3	1.2
Italy	10.8	9.2	5.9	4.7	5.1	Yugoslavia	54.7	72.3	89.8	120.8	194.1
Japan	2.3	2.0	.6	-	.7	Zaire	52.2	23.8	46.7	78.7	(NA)

- Represents zero. NA Not available.

Source: International Monetary Fund, Washington, DC, *International Financial Statistics,* monthly, with annual yearbooks.

No. 1460. Consumer Price Indexes for Selected Items—Selected Countries: 1980 and 1988

[For percent increases in total consumer prices, see table 768. For explanation of average annual percent change, see Guide to Tabular Presentation]

Country	Indexes (1982–84 = 100)										Avg. annual percent change, 1980–1988			
	Total [1]		Food [2]		Clothing		Housing [3]		Transportation		Food [2]	Clothing	Housing [3]	Transportation
	1980	1988	1980	1988	1980	1988	1980	1988	1980	1988				
United States	**82.4**	**118.3**	**86.8**	**118.2**	**90.9**	**115.4**	**81.1**	**118.5**	**83.1**	**108.7**	**3.9**	**3.0**	**4.9**	**3.4**
Australia	75.8	143.3	78.2	140.5	82.0	144.7	75.0	146.8	(NA)	(NA)	7.6	7.4	8.9	(NA)
Austria	85.3	113.8	87.3	111.1	91.3	115.1	82.3	112.2	84.1	113.9	3.1	2.9	4.0	3.9
Canada	76.1	123.2	80.2	121.4	85.4	119.1	74.7	121.1	70.6	119.3	5.3	4.2	6.2	6.8
France	72.3	124.2	71.4	121.3	75.7	136.7	70.3	121.5	71.9	124.3	6.8	7.7	7.1	7.1
Italy	64.0	141.9	66.3	136.7	65.2	151.6	61.9	138.1	63.1	135.1	9.5	11.1	10.6	10.0
Japan	90.9	105.7	91.4	104.3	90.1	114.1	90.7	112.7	92.2	101.9	1.7	3.0	2.4	1.3
Netherlands	85.9	105.8	88.3	101.9	91.2	103.2	80.8	105.9	85.2	108.2	1.8	1.6	3.4	3.0
Sweden	75.8	133.4	69.1	139.2	84.1	119.9	76.6	130.1	(NA)	(NA)	9.1	4.5	6.8	(NA)
United Kingdom	78.5	125.6	82.2	118.9	96.3	113.0	74.9	132.2	79.9	119.4	4.7	2.0	7.4	5.1
West Germany	86.7	106.2	87.8	102.8	88.6	109.6	85.5	104.9	85.7	104.2	2.0	2.7	2.6	2.5

NA Not available. [1] Includes other items not shown separately. [2] Restaurant meals, alcohol, and tobacco are included for some countries; excluded for others. [3] Includes shelter, utilities, and household furnishings and operations. However, actual coverage and measurement methods vary significantly from country to country.

Source: U.S. Bureau of Labor Statistics, *Handbook of Labor Statistics,* periodic.

No. 1461. Civilian Labor Force, Employment, and Unemployment—Selected Countries: 1970 to 1988

[Data based on U.S. labor force definitions adopted in 1967 (see text, section 13) except that minimum age for population base varies as follows: United States, France, Sweden, and, beginning 1980, United Kingdom, 16 years; Australia, Canada, Japan, West Germany, and, for 1970, United Kingdom, 15 years; Italy, 14 years]

YEAR	United States	Australia	Canada	France	Italy	Japan	Netherlands	Sweden	United Kingdom	West Germany
Civilian labor force (mil.):										
1970	82.8	5.5	8.4	20.8	19.7	50.7	(NA)	3.9	25.1	26.2
1980	106.9	6.7	11.6	22.8	21.1	55.7	5.9	4.3	26.5	26.5
1984	113.5	7.1	12.3	23.3	21.7	58.5	[1] [2] 6.3	4.4	[1] 27.2	[2] 26.8
1985	115.5	7.3	12.5	23.4	21.8	58.8	[1] 6.3	4.4	[1] 27.4	27.0
1986	117.8	7.6	12.7	23.4	[2] 22.3	59.4	[1] 6.4	4.4	[1] 27.5	27.1
1987	119.9	7.8	13.0	23.5	22.4	60.0	[1] 6.5	[2] 4.5	[1] 27.9	[1] [2] 28.9
1988	121.7	[1] 8.0	13.3	[1] 23.6	[1] 22.7	60.9	[1] 6.6	4.5	[1] 28.1	[1] 29.1
Labor force participation rate: [3]										
1970	60.4	62.1	57.8	57.5	49.0	64.5	(NA)	64.0	61.1	56.9
1980	63.8	62.1	64.1	57.2	48.2	62.6	55.3	66.9	62.5	53.2
1984	64.4	61.5	64.8	56.6	47.3	62.7	[1] [2] 56.2	66.6	[1] 62.5	[2] 52.4
1985	64.8	61.8	65.3	56.3	47.2	62.3	[1] 55.7	66.9	[1] 62.6	52.6
1986	65.3	63.0	65.7	56.1	[2] 47.8	62.1	[1] 55.8	67.0	[1] 62.6	52.6
1987	65.6	63.0	66.2	55.8	[1] 47.9	61.9	[1] 56.4	[2] 67.3	[1] 63.0	[1] [2] 55.0
1988	65.9	63.3	66.7	55.7	[1] 48.4	61.9	[1] 56.6	[1] 67.8	[1] 63.3	[1] 55.2
Civilian employment (mil.):										
1970	78.7	5.4	7.9	20.3	19.1	50.1	(NA)	3.8	24.3	26.1
1980	99.3	6.3	10.7	21.3	20.2	54.6	5.5	4.2	24.7	25.8
1984	105.0	6.5	10.9	21.0	20.4	56.9	[1] [2] 5.5	4.2	[1] 24.0	[2] 24.8
1985	107.2	6.7	11.2	20.9	20.5	57.3	[1] 5.6	4.3	[1] 24.3	25.0
1986	109.6	7.0	11.5	21.0	[2] 20.6	57.7	[1] 5.7	4.3	[1] 24.5	25.2
1987	112.4	7.1	11.9	21.0	20.6	58.3	[1] 5.8	[2] 4.4	[1] 25.0	[1] [2] 26.6
1988	115.0	7.4	12.2	[1] 21.1	[1] 20.9	59.3	[1] 5.9	4.5	[1] 25.8	[1] 26.7
Employment-population ratio: [4]										
1970	57.4	61.1	54.5	56.0	47.4	63.8	(NA)	63.1	59.2	56.6
1980	59.2	58.3	59.3	53.5	46.1	61.3	52.0	65.6	58.1	51.7
1984	59.5	56.0	57.5	51.0	44.5	61.0	[1] [2] 49.3	64.5	[1] 55.2	[2] 48.5
1985	60.1	56.6	58.5	50.4	44.4	60.6	[1] 50.0	65.0	[1] 55.6	48.7
1986	60.7	57.9	59.4	50.2	[2] 44.2	60.4	[1] 50.2	65.2	[1] 55.6	49.0
1987	61.5	57.9	60.4	49.8	[1] 44.1	60.1	[1] 50.8	[2] 66.0	[1] 56.6	[1] [2] 51.5
1988	62.3	58.7	61.6	[1] 49.8	[1] 44.6	60.4	[1] 50.9	[1] 66.7	[1] 58.0	[1] 51.7
Unemployment rate:										
1970	4.9	1.6	5.7	2.5	3.2	1.2	(NA)	1.5	3.1	.5
1980	7.1	6.1	7.5	6.4	4.4	2.0	6.0	2.0	7.0	2.9
1984	7.5	9.0	11.2	10.0	5.9	2.8	[1] [2] 12.3	3.1	[1] 11.7	7.4
1985	7.2	8.3	10.5	10.4	6.0	2.6	[1] 10.2	2.8	[1] 11.2	7.5
1986	7.0	8.1	9.5	10.6	[2] 7.5	2.8	[1] 10.0	2.6	[1] 11.2	[1] 7.0
1987	6.2	8.1	8.8	10.8	7.9	2.9	[1] 10.0	[2] 1.9	[1] 10.3	[1] 7.1
1988, total	5.5	7.2	7.8	[1] 10.5	[1] 7.9	2.5	[1] 10.1	1.6	[1] 8.3	[1] [2] 6.4
Under 25 years old	11.0	13.4	12.0	[5] 23.6	(NA)	4.9	(NA)	3.3	[5] 12.8	[1] 6.4
Teenagers [6]	15.3	17.4	13.2	[5] 24.2	(NA)	7.5	(NA)	3.3	[5] 13.8	(NA)
20–24 years old	8.7	10.4	11.2	[5] 23.5	(NA)	4.2	(NA)	3.6	[5] 12.1	(NA)
25 years old and over	4.2	5.3	6.7	[5] 8.4	(NA)	2.2	(NA)	1.3	[5] 7.6	(NA)

NA Not available. [1] Preliminary. [2] Data for prior years not comparable to later years; see source. [3] Civilian labor force as a percent of the civilian working age population. [4] Civilian employment as a percent of the civilian working age population. [5] French data are for March; United Kingdom data are for April–June. [6] 16–19 years old in the United States, France, Sweden, and the United Kingdom; 15–19 years old in Canada, Australia, and Japan; and 14–19 years old in Italy and West Germany.

Source: U.S. Bureau of Labor Statistics, *Handbook of Labor Statistics*, periodic, and *Monthly Labor Review*.

No. 1462. Civilian Employment-Population Ratios, by Sex, and Females as Percent of Total Civilian Employment—Selected Countries: 1970 to 1988

[See headnote, table 1461]

COUNTRY	Civilian employment—population ratios [1]										Females as percent of civilian employment				
	Women					Men									
	1970	1980	1985	1987	1988	1970	1980	1985	1987	1988	1970	1980	1985	1987	1988
United States	**40.8**	**47.7**	**50.4**	**52.5**	**53.4**	**76.2**	**72.0**	**70.9**	**71.5**	**72.0**	**37.7**	**42.4**	**44.1**	**44.8**	**45.0**
Australia	39.3	41.9	43.0	45.7	46.8	83.2	75.1	70.6	70.4	70.9	32.4	36.4	38.4	39.8	40.2
Canada	36.1	46.2	48.8	51.2	52.6	73.4	73.0	68.7	70.1	70.9	33.6	39.7	42.7	43.4	43.8
France	38.1	40.1	39.6	39.7	(NA)	76.3	68.5	62.3	61.1	(NA)	36.0	39.5	41.4	42.0	(NA)
Italy	25.0	27.9	27.8	[2] 28.5	[2] 28.9	71.9	66.0	62.5	[2] 61.3	[2] 61.9	27.7	31.7	32.8	33.8	[2] 33.9
Japan	48.2	45.7	46.3	46.2	46.6	80.5	77.9	75.9	74.9	75.0	39.0	38.4	39.4	39.6	39.7
Netherlands	(NA)	31.0	[3] 33.4	[2] 35.8	(NA)	(NA)	73.9	[3] 67.4	[2] 66.4	(NA)	(NA)	30.3	[3] 34.0	[2] 36.0	(NA)
Sweden	49.1	58.0	59.7	[3] 61.4	[2] 62.2	77.4	73.6	70.5	[3] 70.9	[2] 71.5	39.5	45.2	47.2	[3] 47.8	[2] 47.9
United Kingdom	41.2	44.8	[2] 44.4	[2] 46.0	[2] 47.3	79.2	72.8	[2] 67.9	[2] 68.1	[2] 69.7	36.7	40.4	[2] 41.7	[2] 42.5	[2] 42.5
West Germany	38.2	36.7	35.5	[2] 36.6	(NA)	78.3	68.9	63.7	[2] 64.1	(NA)	36.5	38.0	38.9	[2] 39.4	[2] 39.6

NA Not available. [1] Civilian employment as a percent of the civilian working age population. [2] Preliminary. [3] Break in series.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, April 1989.

No. 1463. Labor Force Participation Rates, by Sex and Age-Group—Selected Countries: 1980 and 1988

[Participation rates represent percent of population of each specified group in labor force]

Country and sex	15–19 years old		20–24 years old		25–54 years old		55–64 years old		65 years and over	
	1980	1988	1980	1988	1980	1988	1980	1988	1980	1988
United States: Total	[1] 56.5	55.4	77.5	78.8	78.4	82.5	55.1	54.1	11.9	10.8
Male	[1] 60.5	57.2	85.7	84.7	93.4	92.7	71.2	66.4	18.3	15.9
Female	[1] 52.4	53.5	69.1	72.7	63.8	72.5	41.0	43.2	7.6	7.4
Canada: Total	55.1	57.3	79.6	80.5	77.4	83.4	53.9	50.5	8.9	7.1
Male	57.9	58.5	86.3	85.0	94.8	93.8	76.2	66.6	14.8	11.4
Female	52.2	56.1	73.0	75.9	60.1	73.1	33.6	35.3	4.4	3.9
France: Total	22.0	12.8	73.7	65.8	79.8	83.4	53.4	39.2	5.0	2.9
Male	25.7	15.5	80.2	70.8	96.4	95.7	68.5	47.3	7.5	4.6
Female	18.3	10.0	67.5	60.9	63.0	71.2	39.7	31.8	3.3	1.8
Italy: Total	31.1	26.1	65.1	66.5	[2] 65.9	69.2	[3] 24.5	22.5	7.5	4.6
Male	33.3	27.9	72.5	70.4	[2] 93.1	91.1	[3] 39.6	36.5	12.6	8.1
Female	28.9	24.2	57.9	62.6	[2] 39.9	47.8	[3] 11.0	10.1	3.5	2.0
Japan: Total	17.9	16.9	69.8	72.3	76.8	79.6	63.0	63.0	26.3	23.8
Male	17.4	17.2	69.6	71.0	97.0	97.0	85.4	82.3	41.0	35.8
Female	18.5	16.5	70.0	73.7	56.7	62.2	45.3	45.2	15.5	15.7
Sweden: Total	55.6	47.3	83.1	82.6	89.3	92.8	66.8	69.6	8.6	11.4
Male	55.3	45.2	84.5	84.2	95.4	94.7	78.7	74.9	14.2	19.0
Female	55.8	49.5	81.6	80.9	82.9	90.8	55.3	64.6	3.7	4.9
United Kingdom: Total	74.4	77.2	77.1	78.3	79.5	82.0	59.4	51.9	6.2	4.8
Male	73.6	77.8	86.0	86.1	95.4	93.7	81.6	66.4	10.3	7.7
Female	75.3	76.5	67.9	70.1	63.4	70.2	39.1	36.6	3.6	2.9
West Germany: Total	43.9	42.8	73.8	78.3	74.0	78.0	42.8	41.3	4.5	3.1
Male	47.0	45.3	79.2	80.9	93.6	93.9	65.5	59.8	7.0	5.0
Female	40.5	40.1	68.0	75.5	53.6	61.4	27.2	25.4	3.1	2.0

[1] Persons 16–19 years old. [2] Persons 25–59 years old. [3] Persons 60–64 years old.

Source: Organization for Economic Cooperation and Development, Paris, France, *Historical Statistics, 1960–1982,* 1984; and *Labour Force Statistics,* annual.

No. 1464. Organization for Economic Cooperation and Development (OECD)—Index of Industrial Production: 1975 to 1988

[Minus sign (–) indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation]

Country	Index (1985=100)						Average annual percent change						
	1975	1983	1984	1986	1987	1988	1975–1980	1980–1985	1983–1984	1984–1985	1985–1986	1986–1987	1987–1988
OECD, total	**73.0**	**90.3**	**97.3**	**101.2**	**104.5**	**110.5**	**4.4**	**2.0**	**7.8**	**2.8**	**1.2**	**3.3**	**5.7**
United States	**68.9**	**88.3**	**98.4**	**101.1**	**104.9**	**110.9**	**5.0**	**2.6**	**11.4**	**1.6**	**1.1**	**3.8**	**5.7**
Australia	86.2	90.3	96.2	101.0	102.0	105.3	2.6	.4	6.5	4.0	1.0	1.0	3.2
Austria	73.8	90.9	95.7	101.1	101.8	106.3	4.6	1.6	5.3	4.5	1.1	.7	4.4
Belgium	83.9	95.2	97.5	100.8	103.0	108.2	2.7	.8	2.4	2.6	.8	2.2	5.0
Canada	74.7	84.6	94.9	101.5	106.7	113.1	2.9	3.0	12.2	5.4	1.5	5.1	6.0
Finland	67.6	91.9	96.1	100.8	105.0	110.2	4.9	3.1	4.6	4.1	.8	4.2	5.0
France	85.3	98.9	99.2	100.9	102.9	107.5	3.4	–.1	.3	.8	.9	2.0	4.5
Greece	71.8	94.6	96.8	99.8	98.4	103.5	5.4	1.4	2.3	3.3	.2	–1.4	5.2
Ireland	59.9	87.9	96.6	103.3	113.3	125.7	5.4	5.1	9.9	3.5	3.3	9.7	10.9
Italy	80.8	95.5	98.7	104.1	106.8	114.2	5.0	–.6	3.4	1.3	4.1	2.6	6.9
Japan	61.0	88.3	96.5	99.8	103.3	112.9	6.7	3.5	9.3	3.6	–.2	3.5	9.3
Luxembourg	76.6	83.7	93.5	102.7	103.1	115.3	1.4	4.0	11.7	7.0	2.7	.4	11.8
Netherlands	84.5	90.9	95.4	99.9	101.0	101.6	2.3	1.1	5.0	4.8	–.1	1.1	.6
Norway	62.5	89.0	94.8	103.5	111.3	117.0	5.7	3.9	6.5	5.5	3.5	7.5	5.1
Portugal	60.1	96.9	99.3	106.1	108.6	115.3	7.2	3.3	2.5	.7	6.1	2.4	6.2
Spain	83.8	97.2	98.1	103.1	107.8	111.1	2.9	.7	.9	1.9	3.1	4.6	3.1
Sweden [1]	93.2	90.6	97.1	100.0	103.3	105.5	.7	2.1	7.2	3.0	–	3.3	2.1
Switzerland	84.8	92.2	94.7	103.8	105.0	111.6	2.7	.7	2.7	5.6	3.8	1.2	6.3
United Kingdom	85.3	94.7	94.9	102.3	106.2	109.6	1.6	1.6	.2	5.4	2.3	3.8	3.2
West Germany	85.2	92.9	95.7	102.0	102.4	106.1	2.7	.6	3.0	4.5	2.0	.4	3.6

– Represents or rounds to zero. [1] Mining and manufacturing.

Source: Organization for Economic Cooperation and Development, Paris, France, *Main Economic Indicators, Historical Statistics, 1964–1983,* 1984; and *Main Economic Indicators,* monthly.

No. 1465. Indexes of Hourly Compensation Costs for Production Workers in Manufacturing—Selected Countries: 1975 to 1988

[**United States = 100.** Compensation costs include pay for time worked, other direct pay, employer expenditures for legally required insurance programs and contractual and private benefit plans, and for some countries, other labor taxes. Data adjusted for exchange rates. Area averages are trade-weighted to account for difference in countries' relative importance to U.S. trade in manufactured goods. The trade weights used are the sum of U.S. imports of manufactured products for consumption (customs value) and U.S. domestic exports of manufactured products (f.a.s. value) in 1986; see source for detail]

AREA OR COUNTRY	1975	1980	1985	1986	1987	1988
United States	**100**	**100**	**100**	**100**	**100**	**100**
Total [1]	64	73	57	69	80	86
OECD [2]	75	83	65	79	91	98
Europe [3]	82	102	62	83	101	105
Asian newly industrializing countries [4]	8	12	13	13	15	19
Canada	91	85	83	83	89	98
Brazil	14	14	9	11	10	11
Mexico [5]	31	30	16	11	12	(NA)
Australia	87	86	63	64	69	79
Hong Kong [5]	12	15	14	14	16	18
Israel	35	39	31	39	47	55
Japan	48	57	50	72	83	91
South Korea	6	10	10	11	13	18
New Zealand	50	54	34	40	51	(NA)
Singapore	13	15	19	17	17	19
Sri Lanka	4	2	2	2	2	(NA)
China: Taiwan	6	10	11	13	16	20
Austria [6]	68	87	56	78	97	100
Belgium	101	133	69	93	112	113
Denmark	99	111	63	84	108	114
Finland [7]	72	84	62	81	100	110
France	71	91	58	78	92	93
West Germany [6]	100	125	74	101	125	130
Greece	27	38	28	31	34	37
Ireland	[8] 47	60	45	59	68	70
Italy	73	81	56	75	90	92
Luxembourg	100	122	59	80	97	(NA)
Netherlands	103	123	69	96	117	117
Norway	107	119	82	103	129	136
Portugal	25	21	12	16	19	20
Spain	41	61	37	49	58	63
Sweden	113	127	75	94	112	121
Switzerland	96	113	75	104	127	130
United Kingdom	52	76	48	57	67	75

NA Not available. [1] The 23 countries for which 1988 data are available. [2] Canada, Australia, Japan, and the 16 European countries for which 1988 data are available. [3] The 16 European countries for which 1988 data are available. [4] Hong Kong, South Korea, Singapore, and China: Taiwan. [5] Average of selected manufacturing industries. [6] Exludes workers in establishments considered handicraft manufactures (including all printing and publishing and miscellaneous manufacturing). [7] Includes workers in mining and electrical power plants. [8] Data refer to September for 1975.

Source: Bureau of Labor Statistics, *Report 771*, August 1989.

No. 1466. Structure of Manufacturing Industry for Selected Countries: 1975 to 1986

[**In percent.** Contribution of each industry group to total manufacturing production. Based on International Standard Industrial Classification; see text, section 31, and source. Numbers in parentheses refer to ISIC codes]

COUNTRY	Food [1] (3100)	Textile [2] (3200)	Wood [3] (3300)	Paper [4] (3400)	Chemical [5] (3500)	Non-metal [6] (3600)	Basic metal [7] (3700)	Machinery [8] (3800)	Other (3900)
United States: 1975	16.7	6.7	2.8	7.8	18.4	2.7	7.6	35.9	1.3
1980	14.5	5.6	2.8	7.7	22.2	2.5	6.8	36.6	1.3
1985	14.1	5.3	2.9	9.1	19.9	2.4	4.5	40.8	1.1
1986	14.6	5.4	3.1	9.7	17.6	2.5	4.3	41.6	1.1
Japan: 1975	13.5	6.9	3.8	6.0	17.6	3.5	15.4	32.1	1.2
1980	11.3	5.4	3.6	6.2	19.3	3.9	11.4	37.7	1.2
1985	11.0	4.9	2.4	6.1	16.7	3.3	8.5	45.7	1.4
1986	11.7	5.0	2.5	6.6	15.1	3.4	7.3	47.0	1.4
France: 1975	19.5	8.4	2.8	5.3	19.1	2.9	8.8	32.0	1.1
1980	18.0	6.6	2.6	5.0	23.5	3.0	8.1	32.2	1.0
1985	17.6	6.9	2.6	6.5	22.0	3.0	7.2	33.0	1.3
1986	17.8	7.1	2.8	6.9	19.4	3.1	6.8	34.7	1.3
Italy: 1975	13.2	10.7	2.3	4.7	20.7	4.7	10.9	32.1	.7
1980	12.2	11.4	3.2	4.6	19.7	5.6	10.1	32.5	.8
1985 [9]	13.0	10.4	2.7	5.4	22.6	5.3	8.4	31.5	.7
1986	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Portugal: 1975	26.1	18.9	5.5	6.9	16.9	5.5	3.1	16.8	.3
1980	18.2	18.9	6.0	6.3	24.5	6.1	2.2	17.6	.2
1985	19.8	18.6	3.6	28.4	28.4	4.9	3.3	14.5	.2
1986	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Sweden: 1975	13.3	3.7	7.5	13.8	10.4	2.7	8.7	39.5	.4
1980	13.3	2.6	8.1	13.5	15.3	2.6	8.5	35.8	.4
1985	13.9	2.1	6.4	13.9	15.5	2.1	7.9	37.9	.3
1986	14.1	2.1	6.6	14.4	13.3	2.1	7.4	39.6	.3
United Kingdom: 1975	18.5	7.5	2.9	6.2	18.5	3.1	7.8	34.4	1.1
1980	18.6	5.9	2.9	6.8	20.6	3.6	6.8	33.9	.9
1985	18.7	5.6	2.7	7.5	21.1	3.5	5.8	34.2	.9
1986	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
West Germany: 1975	13.3	7.0	3.3	4.4	18.7	3.5	10.8	38.6	.5
1980	12.2	5.4	3.3	4.1	22.5	3.3	8.8	38.0	.5
1985	12.0	4.7	2.4	4.1	23.3	2.7	6.5	42.6	.4
1986	12.3	4.8	2.5	4.3	20.7	2.8	5.9	44.9	.4

NA Not available. [1] Manufacture of food, beverages, and tobacco. [2] Textile, wearing apparel, and leather industries. [3] Manufacture of wood and wood products including furniture. [4] Manufacture of paper and paper products; printing and publishing. [5] Manufacture of chemicals and chemical, petroleum, coal, rubber, and plastic products. [6] Manufacture of non-metallic products, except petroleum and coal products. [7] Includes iron and steel basic industries and nonferrous metal basic industries. [8] Manufacture of fabricated metal products, machinery and equipment. [9] 1984 data.

Source: Organization for Economic Cooperation and Development, Paris, France, *OECD Environmental Data, Compendium 1989.*

No. 1467. Selected Indexes of Manufacturing Activity—Selected Countries: 1970 to 1988

[1977=100. Data relate to all employed persons in the United States and Canada; all employees in other countries. Minus sign (−) indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation]

Index and year	United States	Belgium	Canada	Denmark	France	Italy	Japan	Netherlands	Sweden	United Kingdom	West Germany [1]
Output per hour:											
1970	80.8	60.4	75.6	65.6	71.4	69.8	64.8	64.3	80.7	80.3	71.2
1980	101.4	119.2	98.2	112.3	110.6	122.1	122.7	113.9	112.7	101.9	108.6
1985	123.6	158.6	117.3	120.3	132.7	156.8	161.1	145.1	136.1	134.1	128.4
1987	132.0	170.5	120.5	117.2	136.8	162.3	176.5	145.9	141.8	147.6	129.9
1988	136.2	(NA)	124.3	117.2	144.1	167.1	190.0	153.2	145.0	154.9	135.9
Average annual percent change:											
1970–1980	2.3	7.0	2.6	5.5	4.5	5.8	6.6	5.9	3.4	2.4	4.3
1980–1985	4.0	5.9	3.6	1.4	3.7	5.1	5.6	5.0	3.8	5.6	3.4
1985–1988	3.3	(NA)	1.9	−.9	2.8	2.1	5.7	1.8	2.1	4.9	1.9
Compensation per hour, national currency basis: [2]											
1970	57.4	34.9	47.9	36.3	36.3	27.1	33.9	39.0	38.5	31.4	48.0
1980	132.4	130.2	131.3	135.9	148.5	163.7	120.7	123.6	133.6	168.6	125.6
1985	176.4	183.6	194.4	196.5	265.4	352.0	151.4	156.9	212.4	258.8	164.6
1987	186.9	194.7	214.0	225.9	291.4	391.2	162.5	167.0	244.8	295.7	178.1
1988	193.5	(NA)	227.1	230.1	301.9	416.3	171.3	172.8	261.1	319.3	185.5
Average annual percent change:											
1970–1980	8.7	14.1	10.6	14.1	15.1	19.7	13.5	12.2	13.2	18.3	10.1
1980–1985	5.9	7.1	8.2	7.7	12.3	16.5	4.6	4.9	9.7	8.0	5.6
1985–1988	3.1	(NA)	5.3	5.4	4.4	5.7	4.2	3.3	7.1	7.3	4.0
Real hourly compensation: [2 3]											
1970	89.6	61.0	79.2	68.5	67.1	64.6	68.7	68.6	71.7	78.6	69.4
1980	97.4	111.8	100.2	100.3	108.2	103.8	103.6	106.9	101.8	115.8	112.2
1985	99.3	112.3	103.8	99.1	122.4	117.1	113.4	110.6	103.3	125.1	121.6
1987	99.7	115.7	105.1	105.7	126.9	117.2	120.9	118.2	109.3	132.7	131.7
1988	99.1	(NA)	107.2	102.9	128.0	118.8	126.6	121.4	111.5	136.6	135.7
Average annual percent change:											
1970–1980	.8	6.2	2.4	3.9	4.9	4.9	4.2	4.5	3.6	4.0	4.9
1980–1985	.4	.1	.7	−.3	2.5	2.4	1.8	.7	.3	1.6	1.6
1985–1988	−.1	(NA)	1.1	1.3	1.5	.5	3.7	3.1	2.6	3.0	3.7
Unit labor costs, national currency:											
1970	71.0	57.8	63.4	55.4	50.8	38.8	52.3	60.7	47.7	39.1	67.4
1980	130.6	109.2	133.7	121.0	134.3	134.0	98.4	108.5	118.6	165.5	115.7
1985	142.7	115.8	165.7	163.3	200.0	224.5	94.0	108.1	156.1	193.0	128.3
1987	141.7	114.2	177.5	192.8	213.0	241.0	92.1	114.4	172.6	200.4	137.1
1988	142.1	(NA)	182.7	196.3	209.6	249.1	90.2	112.8	180.0	206.2	136.4
Average annual percent change:											
1970–1980	6.3	6.6	7.8	8.1	10.2	13.2	6.5	6.0	9.5	15.5	5.6
1980–1985	1.8	1.2	4.4	6.2	8.3	10.9	−.9	−.1	5.7	3.1	2.1
1985–1988	−.1	(NA)	3.3	6.3	1.6	3.5	−1.4	1.4	4.9	2.2	3.4
Unit labor costs, U.S. dollar basis: [4]											
1970	71.0	41.7	64.5	44.4	45.2	54.7	39.1	41.2	41.1	53.7	42.9
1980	130.6	134.0	121.5	129.0	156.4	138.4	116.8	134.1	125.3	220.6	147.9
1985	142.7	69.9	128.9	92.5	109.5	103.8	105.6	80.0	81.1	143.5	101.2
1987	141.7	109.5	142.3	169.0	174.2	164.0	170.5	138.6	121.5	188.3	177.0
1988	142.1	(NA)	157.8	174.8	172.9	168.8	188.4	139.9	131.1	210.5	180.3
Average annual percent change:											
1970–1980	6.3	12.4	6.5	11.3	13.2	9.7	11.6	12.5	11.8	15.2	13.2
1980–1985	1.8	−12.2	1.2	−6.4	−6.9	−5.6	−2.0	−9.8	−8.3	−8.2	−7.3
1985–1988	−.1	(NA)	7.0	23.6	16.4	17.6	21.3	20.5	17.4	13.6	21.2
Employment:											
1970	98.2	114.3	94.7	113.5	97.7	91.1	101.0	118.2	103.8	113.3	112.9
1980	103.2	91.2	106.5	98.7	95.5	100.6	99.6	95.4	97.4	93.8	101.1
1985	98.1	78.9	101.8	106.7	83.8	83.8	107.6	85.1	88.9	73.3	91.3
1987	97.1	75.9	107.1	106.3	79.9	82.6	106.1	87.4	89.3	70.7	92.8
1988	99.6	(NA)	108.3	103.6	78.4	82.6	108.8	87.2	90.1	71.6	92.7
Average annual percent change:											
1970–1980	.5	−2.2	1.2	−1.4	−.2	1.0	−.1	−2.1	−.6	−1.9	−1.1
1980–1985	−1.0	−2.8	−.9	1.6	−2.6	−3.6	1.6	−2.2	−1.8	−4.8	−2.0
1985–1988	.5	(NA)	2.1	−1.0	−2.2	−.5	.4	.8	.4	−.8	.5
Hours:											
1970	97.3	130.2	97.2	125.1	105.7	98.9	107.9	131.2	114.6	118.1	121.7
1980	101.7	89.6	105.5	98.0	94.6	99.8	101.2	93.6	92.3	90.1	98.1
1985	98.7	75.4	101.2	103.8	77.6	82.3	109.8	80.5	84.7	70.7	85.7
1987	98.6	72.3	106.6	103.3	74.4	84.6	108.1	81.3	84.0	68.5	85.9
1988	101.4	(NA)	109.4	101.0	73.4	87.0	111.7	80.8	85.5	69.8	85.5
Average annual percent change:											
1970–1980	.4	−3.7	.8	−2.4	−1.1	.1	−.6	−3.3	−2.1	−2.7	−2.1
1980–1985	−.6	−3.4	−.8	1.1	−3.9	−3.8	1.6	−3.0	−1.7	−4.7	−2.7
1985–1988	.9	(NA)	2.6	−.9	−1.8	1.9	.6	.1	.3	−.4	−.1

NA Not available. [1] Includes West Berlin. [2] Compensation includes, but real hourly compensation excludes, adjustments for payroll and employment taxes that are not compensation to employees, but are labor costs to employers. [3] Index of hourly compensation divided by the index of consumer prices to adjust for changes in purchasing power. [4] Indexes in national currency adjusted for changes in prevailing exchange rates.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, and *News Release* USDL 89-322, "International Comparisons of Manufacturing Productivity and Labor Cost Trends," June 30, 1989.

No. 1468. Crude Steel Production and Consumption: 1980 to 1987

[Production data cover both ingots and steel for castings and exclude wrought (puddled) iron. Consumption data represent apparent consumption (i.e. production plus imports minus exports) and do not take into account changes in stocks]

COUNTRY	PRODUCTION (mil. metric tons)				CONSUMPTION Total (mil. metric tons)				CONSUMPTION Per capita (kilograms)			
	1980	1985	1986	1987	1980	1985	1986	1987	1980	1985	1986	1987
World	**690.5**	**673.5**	**665.0**	**681.1**	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
United States	[1] **101.5**	[1] **80.1**	**74.0**	**80.9**	**115.6**	**107.3**	**89.3**	**102.9**	**508**	**448**	**370**	**417**
Argentina	2.5	2.7	3.1	3.6	3.4	(NA)	(NA)	3.0	120	(NA)	(NA)	95
Australia	[2] 7.9	[2] 6.3	6.7	6.1	6.1	5.8	5.8	5.8	414	366	363	354
Austria	2.2	.3	.2	.2	2.7	1.8	2.1	1.7	358	235	274	229
Bangladesh	.1	.1	.1	.1	.4	.5	.3	.5	4	5	3	5
Belgium	12.3	10.7	9.7	9.8	[3] 3.2	[3] 2.8	.7	2.5	[3] 313	[3] 275	64	244
Brazil	10.1	11.4	11.3	12.0	14.2	(NA)	(NA)	14.0	117	(NA)	(NA)	99
Bulgaria	2.6	2.9	3.0	3.0	2.8	3.0	2.3	3.4	315	336	258	381
Canada	15.7	13.4	14.0	14.6	12.9	11.9	11.4	13.0	538	471	443	507
China: Mainland	37.1	46.8	52.2	56.3	43.3	66.6	68.2	69.7	44	63	64	64
Czechoslovakia	15.2	15.0	15.1	15.4	11.2	11.0	10.3	11.0	729	709	665	703
East Germany	7.3	7.9	8.0	8.2	9.8	9.5	4.1	9.7	583	574	249	581
France	22.8	18.8	17.6	17.7	20.0	14.2	14.2	14.4	372	258	257	259
Greece	[4] 1.1	1.0	.9	.9	2.0	1.6	1.7	1.9	206	164	175	189
India	9.4	11.0	11.3	12.0	11.5	(NA)	(NA)	16.0	17	(NA)	(NA)	20
Indonesia	.4	1.4	(NA)	(NA)	2.3	2.3	2.7	3.6	16	14	16	21
Italy	26.3	23.7	22.7	22.7	26.1	20.7	20.6	22.8	463	362	360	397
Japan	110.2	104.4	97.6	97.9	73.4	66.7	60.3	71.0	629	553	496	582
Mexico	7.0	7.2	6.9	7.0	10.6	8.3	8.1	7.6	152	105	102	93
Netherlands	5.0	3.4	3.0	1.8	4.6	4.4	3.7	3.9	328	305	254	263
Nigeria	(Z)	.3	.2	.2	2.0	.9	.5	.8	24	9	5	8
North Korea	[4] 5.8	6.5	6.5	6.5	5.9	8.4	9.2	6.8	326	413	441	316
Pakistan	(NA)	(NA)	(NA)	(NA)	.6	.7	.6	.6	8	7	6	6
Philippines	.4	.3	.3	.3	1.2	.5	.6	1.0	25	9	11	17
Poland	18.0	14.8	15.7	15.6	19.3	15.2	15.0	15.9	542	409	400	422
Romania	12.4	13.0	13.5	13.9	12.1	10.9	10.4	(NA)	545	480	451	(NA)
South Africa	9.0	8.5	8.0	8.9	[5] 6.6	(NA)	(NA)	6.3	[5] 232	(NA)	(NA)	164
South Korea	5.7	4.9	4.1	2.6	4.9	(NA)	(NA)	13.0	128	(NA)	(NA)	308
Soviet Union	147.9	154.7	160.6	161.9	(NA)	(NA)	(NA)	164.8	(NA)	(NA)	(NA)	582
Spain	12.4	14.6	12.0	11.5	8.9	9.9	8.0	8.3	238	257	208	214
Sweden	4.2	4.8	4.7	4.7	4.1	3.2	3.4	3.5	498	384	406	421
Turkey	1.7	4.7	6.0	7.0	3.4	(NA)	(NA)	7.7	77	(NA)	(NA)	149
United Kingdom	10.9	15.5	14.5	17.2	13.8	14.4	12.9	14.7	245	254	227	259
Venezuela	1.8	3.1	3.4	3.7	3.0	3.2	3.7	4.1	199	186	208	227
Vietnam	(NA)	(NA)	(NA)	(NA)	.2	.1	.1	.2	4	1	2	11
West Germany	43.3	40.1	36.7	35.9	33.8	29.3	28.1	28.0	549	481	460	457
Yugoslavia	2.2	2.0	2.0	1.9	5.7	5.1	5.1	4.0	255	221	218	170

NA Not available. Z Less than 50,000 metric tons. [1] Excludes steel for castings made in foundries operated by companies not producing ingots. [2] Year ending June 30. [3] Luxembourg included with Belgium. [4] Data from U.S. Bureau of Mines. [5] Including Botswana, Lesotho, Namibia, and Swaziland.

Source: Statistical Office of the United Nations, New York, NY, *Statistical Yearbook*. (Copyright.)

No. 1469. World Production of Major Mineral Commodities, by Selected Commodity: 1983 to 1987

[Metric ton = 1.023 short tons]

COMMODITY	Unit	1983	1984	1985	1986, prel.	1987, est.	Leading producers, 1987
MINERAL FUELS							
Coal	Mil. metric tons	4,010	4,225	4,457	4,565	4,696	China: Mainland, U.S., Soviet Union.
Gas, natural, marketed	Tril. cu. ft	55.0	60.0	62.0	63.5	68.1	Soviet Union, U.S., Canada.
Natural gas liquids [1]	Mil. barrels [2]	1,439	1,626	1,612	1,638	1,610	United States, Soviet Union, Algeria.
Petroleum, crude	Mil. barrels [2]	19,333	19,838	19,581	20,400	20,475	Soviet Union, U.S., Saudi Arabia.
Petroleum, refined	Mil. barrels [2]	20,640	22,412	21,510	22,038	22,241	U.S., Soviet Union, Japan.
NONMETALLIC MINERALS							
Cement, hydraulic	Mil. metric tons	916	939	959	1,000	1,033	China: Mainland, Soviet Union, U.S.
Diamond, gem and industrial [1]	1,000 carats	55,392	63,452	66,014	91,756	93,029	Australia, Zaire, Botswana.
Nitrogen in ammonia	Mil. metric tons	80.4	88.0	89.5	90.1	93.0	Soviet Union, China: Mainland, U.S.
Phosphate rock	Mil. metric tons	141	152	149	139	145	U.S., Soviet Union, Morocco.
Potash, marketable	Mil. metric tons	27.4	29.3	29.2	28.8	29.8	Soviet Union, Canada, East Germany.
Salt	Mil. metric tons	159	172	173	177	183	U.S., China: Mainland, Soviet Union.
Sulfur, elemental basis	Mil. metric tons	49.8	51.9	54.3	54.1	54.2	U.S., Soviet Union, Canada.
METALS							
Aluminum [3]	Mil. metric tons	13.9	15.7	15.4	15.3	16.0	U.S., Soviet Union, Canada.
Bauxite, gross weight	Mil. metric tons	78.7	87.8	84.5	86.1	90.3	Australia, Guinea, Jamaica.
Chromite, gross weight [1]	1,000 metric tons	8,211	9,776	10,514	11,090	10,987	South Africa, Soviet Union, Albania.
Copper, metal content [4]	1,000 metric tons	7,659	7,999	8,080	8,125	8,475	Chile, U.S., Canada.
Gold, metal content	Mil. troy ounces	45.2	46.8	49.2	51.6	52.5	South Africa, Soviet Union, U.S.
Iron ore, gross weight [5]	Mil. metric tons	740	836	858	868	883	Soviet Union, Brazil, Australia.
Lead, metal content [4]	1,000 metric tons	3,357	3,262	3,428	3,376	3,454	Australia, Soviet Union, Canada.
Manganese ore, gross weight	Mil. metric tons	21.9	23.7	24.3	23.7	22.7	Soviet Union, South Africa, Brazil.
Nickel, metal content [4]	1,000 metric tons	674	769	801	757	785	Canada, Soviet Union, Australia.
Steel, crude	Mil. metric tons	663	710	717	710	730	Soviet Union, Japan, U.S.
Tin, metal content [4]	1,000 metric tons	197	198	189	179	180	Malaysia, Brazil, Indonesia.
Zinc, metal content [4]	1,000 metric tons	6,283	6,524	6,801	6,829	7,144	Canada, Soviet Union, Australia.

[1] Excludes China: Mainland. [2] 42-gallon barrels. [3] Unalloyed ingot metal. [4] Mine output. [5] Includes iron ore concentrates and iron ore agglomerates.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1470. Energy Consumption and Production, by Country: 1980 and 1987

[Metric ton = 1.1023 short tons. See text, section 31, for general comments about the data. For additional data qualifications for countries, see source]

Country	Energy consumed [1] (coal equiv.) Total (mil. metric tons)		Energy consumed [1] (coal equiv.) Per capita (kilograms)		Electric energy production [2] (bil. kWh)		Crude petroleum production [3] (mil. metric tons)		Coal production [4] (mil. metric tons)	
	1980	1987	1980	1987	1980	1987	1980	1987	1980	1987
World, total	**8,544.3**	**9,653.6**	**1,919**	**1,921**	**8,247**	**10,467**	**2,979**	**2,787**	**2,728**	**3,334**
United States	**2,364.5**	**2,322.9**	**10,386**	**9,542**	[5] 2,354	[5] 2,686	**424.2**	**418.6**	**710.4**	**761.1**
Algeria	24.8	33.3	1,327	1,441	7.1	13.4	47.4	33.1	(Z)	[6] (Z)
Argentina	49.3	59.5	1,746	1,912	39.7	52.2	25.3	22.0	.4	.4
Australia [7]	91.2	110.6	6,195	6,845	96.1	132.2	18.9	25.1	72.5	147.8
Austria	30.5	30.1	4,058	4,018	42.0	50.2	1.5	1.1	(Z)	(Z)
Bahrain	4.4	6.8	12,651	14,680	1.7	3.0	2.4	2.0	(NA)	(NA)
Bangladesh [8]	3.8	6.9	44	64	2.7	5.9	(Z)	(Z)	(X)	(X)
Belgium	59.1	55.1	5,997	5,560	53.6	62.4	(X)	(X)	6.3	[9] 4.4
Brazil	92.5	108.5	763	767	139.5	202.3	9.1	28.5	5.2	6.9
Bulgaria	47.3	53.1	5,254	5,912	34.8	43.5	[6] .3	[6] .3	.3	.2
Burma [10]	2.2	2.7	62	68	1.3	2.3	1.6	1.0	(Z)	(Z)
Canada	254.2	256.5	10,547	9,915	377.5	496.3	70.4	75.2	20.2	32.7
Chile	11.4	11.8	1,025	938	11.8	15.6	1.6	1.3	1.0	1.6
China: Mainland	562.8	800.8	571	749	300.6	497.3	105.9	134.1	595.8	928.0
Taiwan [11]	37.8	(NA)	2,126	(NA)	43.8	(NA)	.2	(NA)	2.6	(X)
Colombia	23.8	24.5	923	817	22.9	35.4	6.5	19.4	4.9	14.6
Cuba	13.6	14.5	1,394	1,442	9.9	13.6	.3	.9	(X)	(X)
Czechoslovakia	97.4	98.2	6,364	6,311	72.7	85.8	.1	.1	[9] 28.3	[9] 25.7
Denmark	26.9	27.4	5,254	5,346	27.1	29.4	.3	4.6	(X)	(X)
East Germany	121.8	131.3	7,276	7,891	98.8	114.2	.1	(Z)	(Z)	(Z)
Ecuador	5.7	6.2	708	627	3.4	5.7	10.4	8.9	(NA)	(NA)
Egypt	20.1	33.8	488	674	18.9	32.5	29.4	45.2	(X)	(X)
Ethiopia	.9	1.2	27	28	.7	.8	(X)	(X)	(NA)	(NA)
Finland	26.4	28.1	5,514	5,692	[5] 38.7	[5] 53.5	(X)	(X)	(X)	(X)
France [12]	237.3	206.9	4,409	3,720	[5] 246.4	[5] 356.2	1.2	3.2	[9] 20.2	[9] 16.3
Greece	20.1	24.5	2,088	2,452	22.7	30.1	(Z)	1.1	(X)	(X)
Hong Kong	7.3	10.6	1,448	1,891	12.6	23.8	(NA)	(NA)	(X)	(X)
Hungary	40.6	40.5	3,787	3,819	23.9	29.7	2.0	1.9	[9] 3.1	[9] 2.4
India [10]	139.4	220.5	202	275	119.3	217.5	9.4	30.1	109.1	177.0
Indonesia	34.7	47.2	230	274	14.2	34.8	77.6	64.6	.3	1.7
Iran [13]	45.7	65.9	1,177	1,285	22.4	37.9	72.7	113.4	[6] .9	[6] 1.2
Iraq	10.7	12.5	807	735	11.4	22.9	130.1	101.8	(NA)	(NA)
Ireland	11.1	12.5	3,268	3,462	10.9	12.6	(X)	(X)	.1	(Z)
Israel	8.8	12.2	2,273	2,794	12.5	17.5	(Z)	(Z)	(X)	(X)
Italy [14]	174.9	204.4	3,112	3,570	185.7	198.3	1.8	3.9	[6] (Z)	(Z)
Japan	434.8	456.1	3,726	3,741	577.5	699.0	.4	[6] .6	18.0	13.0
Kuwait [15]	6.9	17.1	5,019	9,191	9.4	18.4	84.1	61.4	(NA)	(NA)
Libya	7.3	11.0	2,456	3,023	4.8	14.3	88.3	46.8	(X)	(X)
Malaysia	12.2	20.8	882	1,283	10.2	17.4	13.2	24.3	(X)	(X)
Mexico	118.6	140.9	1,709	1,697	[5] 67.0	[5] 104.8	99.9	132.1	7.0	11.1
Morocco	6.4	7.8	319	336	4.9	7.1	(Z)	[6] (Z)	.7	.8
Netherlands	93.0	106.0	6,543	7,265	64.8	68.4	1.3	4.3	(Z)	[6] [16] (Z)
New Zealand [17]	10.0	12.7	3,152	3,858	22.0	27.0	.3	1.3	2.0	[6] 2.1
Nigeria	11.0	16.9	136	166	7.2	9.9	104.2	62.1	.2	[6] .1
North Korea	48.5	57.9	2,713	2,708	35.0	50.2	(X)	(X)	[6] 36.0	[6] 39.5
Norway [18]	26.3	28.3	6,423	6,782	84.1	103.8	24.6	47.8	.3	.4
Pakistan [8]	16.6	27.8	191	250	15.3	33.5	.5	2.0	1.5	2.4
Peru	12.0	11.7	693	564	9.8	14.2	9.6	8.8	[6] .1	[6] .2
Philippines	16.7	15.4	346	265	17.9	23.9	.5	.3	.3	1.2
Poland	176.8	181.5	4,935	4,810	121.9	145.8	.3	.1	193.1	193.0
Portugal	11.2	13.6	1,153	1,329	15.3	20.1	(X)	(X)	.2	.3
Romania	100.0	106.1	4,505	4,624	67.5	73.1	11.5	[6] 10.2	8.1	[6] 8.8
Saudi Arabia [15]	25.3	79.4	2,745	6,322	18.9	37.1	495.9	198.1	(NA)	(NA)
South Africa [19]	90.2	107.6	2,751	2,816	90.4	122.5	(X)	(X)	116.6	177.3
South Korea	52.3	74.2	1,373	1,760	40.1	80.3	(X)	(X)	18.6	24.3
Soviet Union	1,473.1	1,867.2	5,549	6,634	1,293.9	1,664.9	603.2	624.0	492.9	519.1
Spain	88.4	81.9	2,359	2,106	110.5	133.2	1.6	1.6	[9] 13.1	[9] 14.5
Sudan	1.5	1.5	82	64	1.0	1.1	(X)	(X)	(NA)	(NA)
Sweden	44.5	41.8	5,376	5,004	96.7	146.6	(Z)	(Z)	(Z)	(Z)
Switzerland [20]	23.3	24.8	3,636	3,794	[5] 48.1	[5] 57.0	(X)	(X)	(X)	(X)
Syria	7.3	11.5	835	1,025	3.8	7.2	8.3	12.2	(X)	(X)

See footnotes at end of table.

No. 1470. Energy Consumption and Production, by Country: 1980 and 1987—Continued

[Metric ton=1.1023 short tons. See text, section 31, for general comments about the data. For additional data qualifications for countries, see source]

Country	Energy consumed [1] (coal equiv.) Total (mil. metric tons)		Per capita (kilograms)		Electric energy production [2] (bil. kWh)		Crude petroleum production [3] (mil. metric tons)		Coal production [4] (mil. metric tons)	
	1980	1987	1980	1987	1980	1987	1980	1987	1980	1987
Tanzania	.8	.9	44	36	.7	.9	(X)	(X)	(Z)	(Z)
Thailand	17.3	26.3	372	493	15.1	30.0	(Z)	1.0	(Z)	(Z)
Trinidad and Tobago	7.5	7.1	6,992	5,770	2.0	3.3	11.0	8.1	(NA)	(NA)
Tunisia	4.1	5.0	639	651	2.8	4.5	5.6	5.0	(X)	(X)
Turkey	31.9	52.4	718	998	23.3	44.4	2.3	2.6	3.6	3.5
United Arab Emirates	16.8	27.4	17,188	18,832	6.3	13.1	82.8	72.1	(NA)	(NA)
United Kingdom	271.0	290.8	4,850	5,107	284.9	300.2	78.9	117.6	[9] 130.1	[9] 104.4
Venezuela	49.0	55.1	3,140	3,018	35.9	54.7	114.8	95.5	(Z)	.1
Vietnam	6.6	7.4	122	118	3.8	5.3	(NA)	(NA)	5.2	5.6
West Germany	359.4	342.0	5,829	5,624	368.8	415.8	4.6	[21] 3.8	94.5	82.4
Yugoslavia	48.0	56.7	2,152	2,423	59.4	80.8	4.2	3.9	.4	.4
Zaire	2.0	2.1	69	64	4.2	5.3	1.0	[6] 1.3	.1	[6] (Z)
Zambia	2.3	1.9	403	248	[5] 9.2	[5] 8.5	(X)	(X)	.6	.5

NA Not available. X Not applicable. Z Less than 50,000 metric tons. [1] Based on apparent consumption of coal, lignite, petroleum products, natural gas, and hydro, nuclear, and geothermal electricity. [2] Comprises production by utilities generating primarily for public use, and production by industrial establishments generating primarily for own use. Relates to production at generating centers, including station use and transmission losses. [3] Includes shale oil, but excludes natural gasoline. [4] Excludes lignite and brown coal, except as noted. [5] Net production, i.e. excluding station use. [6] United Nations Statistical Office estimate. [7] For year ending June 30 of year shown. [8] For year ending June of year shown. [9] Includes slurries. [10] For year ending April of year shown. [11] Source: U.S. Bureau of the Census. Data from Republic of China publications. [12] Includes Monaco. [13] For year ending March 20 of year shown. [14] Includes San Marino. [15] Includes share of production and consumption in the Neutral Zone. [16] Includes patent fuel and hard coal briquettes. [17] For year ending March 31 for year shown. [18] Includes Svalbard and Jan Mayen Islands. [19] Includes Botswana, Lesotho, Namibia, and Swaziland. [20] Includes Liechtenstein. [21] Includes inputs other than crude petroleum and natural gas liquids.

Source: Except as noted, Statistical Office of the United Nations, New York, NY, *Energy Statistics Yearbook, 1987.* (Copyright.)

No. 1471. Primary Energy Production, by Source of Energy and Region: 1970 to 1987

[In millions of metric tons of coal equivalent. See text, section 31, for general comments concerning the data]

Source of energy and year	World, total	Africa	United States and Canada	Other Western Hemisphere	Asia	Europe	Soviet Union	Oceania
Total primary energy: 1970	7,045	486	2,309	459	1,601	911	1,216	63
1975	8,087	437	2,225	416	2,287	1,047	1,578	99
1980	9,265	584	2,327	565	2,464	1,270	1,936	119
1984	9,300	536	2,357	644	2,168	1,325	2,114	155
1985	9,519	572	2,344	641	2,230	1,399	2,160	175
1986	9,854	576	2,308	650	2,468	1,408	2,252	191
1987	10,049	580	2,320	669	2,519	1,422	2,336	205
Coal and lignite: 1970	2,148	54	526	8	394	662	459	46
1975	2,306	62	535	11	501	635	501	60
1980	2,626	98	657	15	620	654	510	71
1984	2,851	129	716	20	788	604	497	97
1985	2,997	136	717	23	860	647	506	109
1986	3,072	139	717	25	891	656	524	121
1987	3,108	141	705	28	926	645	530	134
Crude petroleum: [1] 1970	3,433	427	878	398	1,148	56	514	12
1975	3,981	356	801	334	1,674	71	715	29
1980	4,497	444	816	437	1,681	210	879	30
1984	4,032	356	825	489	1,159	291	877	33
1985	3,996	374	831	479	1,121	300	852	40
1986	4,191	373	809	485	1,296	307	880	41
1987	4,203	371	804	491	1,290	313	893	41
Natural gas: 1970	1,311	3	852	42	39	145	228	2
1975	1,577	14	802	53	81	276	344	6
1980	1,840	35	752	85	117	320	517	14
1984	2,022	44	693	99	160	307	698	21
1985	2,098	55	667	99	182	317	756	22
1986	2,148	58	647	101	210	306	802	24
1987	2,276	63	674	108	226	317	863	25
Hydro and nuclear electricity: [2] 1970	154	3	53	10	20	49	16	3
1975	224	5	85	16	30	65	18	4
1980	301	7	102	28	45	86	30	4
1984	395	6	123	36	61	122	42	4
1985	427	6	128	39	67	135	47	5
1986	443	6	136	40	71	139	46	5
1987	463	6	137	41	77	147	50	4

[1] Includes natural gas liquids. [2] Includes geothermal.

Source: Statistical Office of the United Nations, New York, NY, *Energy Statistics Yearbook 1987.* (Copyright.)

No. 1472. Indices of Food Production: 1980 to 1988

[1979–1981 = 100. For explanation of annual percent change, see Guide to Tabular Presentation. Minus sign (–) indicates decrease]

Region and country	Total food production						Per capita food production					
	1980	1985	1987	1988	Average annual percent change 1980–1988	Average annual percent change 1987–1988	1980	1985	1987	1988	Average annual percent change 1980–1988	Average annual percent change 1987–1988
World	**99**	**114**	**116**	**116**	**2.0**	**–**	**99**	**105**	**103**	**101**	**.2**	**–1.9**
Developed countries	99	108	105	100	.1	–4.7	98	104	100	95	–.4	–5.0
United States	96	108	99	91	.4	–8.1	96	103	93	85	–8.6	–8.6
Canada	99	114	118	101	.3	–14.4	99	108	110	93	–.8	–15.4
Western Europe	102	107	109	107	.6	–1.8	102	106	107	105	.4	–1.9
Japan	96	109	105	103	.9	–1.9	96	105	100	98	.3	–2.0
Oceania	95	107	106	109	1.7	2.8	94	99	96	97	.4	1.0
South Africa	96	94	102	106	1.2	3.4	96	83	86	87	–1.2	1.1
Centrally planned countries	99	123	133	132	3.6	–.7	99	116	123	121	2.5	–1.6
Soviet Union	100	110	118	118	2.1	–	100	106	110	110	1.2	–
Eastern Europe	99	108	112	110	1.3	–1.8	99	106	108	106	.9	–1.9
China: Mainland	99	129	140	139	4.3	–.7	99	121	129	126	3.1	2.3
Developing countries	100	116	117	123	2.6	5.1	100	103	100	102	.2	2.0
Latin America	99	114	116	120	2.4	3.4	99	101	99	100	.1	1.0
Mexico	100	113	111	111	1.3	–	100	99	93	91	–1.2	–2.1
Brazil	103	124	128	137	3.6	7.0	103	111	110	115	1.4	4.5
Argentina	96	106	107	107	1.3	–	96	98	96	95	–.1	–1.0
Africa	101	113	115	119	2.1	3.4	99	96	93	94	–.8	1.1
Middle East	100	113	117	124	2.7	6.0	100	99	97	98	.2	1.0
Far East	100	120	120	127	3.0	5.8	100	108	104	108	1.0	1.0
India	98	124	121	132	3.8	9.1	98	112	106	114	1.9	7.5

– Represents zero.

Source: Food and Agriculture Organization of the United Nations, Rome, Italy, *FAO Quarterly Bulletin of Statistics*, vol. 2/1; and U.S. Department of Agriculture, Economic Research Service, unpublished data.

No. 1473. Wheat, Rice, and Corn—Exports and Imports of 10 Leading Countries: 1985 to 1987

[**In thousands of metric tons.** Countries listed are the ten leading exporters or importers in 1987]

Leading exporters	Exports 1985	Exports 1986	Exports 1987
WHEAT			
United States	**24,810**	**24,555**	**30,638**
Canada	17,007	15,957	22,140
Australia	15,704	16,109	14,789
France	16,943	13,367	14,220
Argentina	9,583	4,021	4,197
United Kingdom	1,886	3,987	4,122
West Germany	1,045	2,143	2,262
Soviet Union	1,250	1,181	1,480
Hungary	2,002	1,670	1,281
Sweden	626	466	691
RICE			
Thailand	4,062	4,524	4,443
United States	**1,940**	**2,392**	**2,472**
Pakistan	719	1,316	1,240
China: Mainland	1,046	1,123	1,202
Italy	727	676	610
Burma	452	636	486
India	250	200	350
North Korea	200	200	225
Uruguay	242	270	204
Australia	341	178	186
CORN			
United States	**44,033**	**27,099**	**40,906**
France	4,456	5,799	6,305
Argentina	7,069	7,411	3,963
China: Mainland	6,338	5,642	3,917
South Africa	400	1,800	2,350
Thailand	2,752	3,981	1,628
Yugoslavia	900	1,798	1,166
Belgium-Luxembourg	656	364	604
Spain	2	60	459
Greece	209	580	368

Leading importers	Imports 1985	Imports 1986	Imports 1987
WHEAT			
Soviet Union	20,309	15,745	18,097
China: Mainland	6,135	6,883	14,050
Japan	5,510	5,620	5,476
Egypt	4,524	4,329	5,162
Italy	4,534	5,259	4,617
South Korea	2,986	3,449	4,121
Iran	2,144	1,908	3,600
Iraq	2,096	2,185	2,900
Brazil	4,041	2,255	2,749
Poland	1,703	1,662	2,343
RICE			
Iran	539	493	800
Soviet Union	321	493	599
China: Mainland	213	326	559
Iraq	500	550	524
Vietnam	422	500	450
Ivory Coast	342	361	401
Nigeria	356	320	400
Saudi Arabia	428	375	381
Hong Kong	378	368	373
Senegal	336	378	307
CORN			
Japan	14,225	14,653	16,504
Soviet Union	16,600	7,236	9,238
China: Mainland	3,108	3,659	5,249
South Korea	3,406	3,671	4,566
Mexico	1,726	1,704	3,603
Egypt	1,907	2,028	2,200
Netherlands	2,374	1,977	1,760
Belgium-Luxembourg	1,930	1,466	1,729
United Kingdom	1,455	1,482	1,471
Malaysia	1,182	1,204	1,302

Source: U.S. Dept. of Agriculture, Economic Research Service. Data from Food and Agriculture Organization of the United Nations, Rome, Italy, *FAO Trade Yearbook*.

No. 1474. Wheat, Rice, and Corn Production, by Country: 1984 to 1986

[**In thousands of metric tons.** Rice data cover rough and paddy. Data for each country pertain to the calendar year in which all or most of the crop was harvested. See text, section 31, for general comments concerning quality of the data]

Country	Wheat			Rice			Corn		
	1984	1985	1986	1984	1985	1986	1984	1985	1986
World, total	**516,457**	**506,034**	**535,842**	**470,284**	**474,728**	**475,533**	**452,753**	**488,325**	**480,609**
United States	**70,618**	**65,999**	**56,792**	**6,296**	**6,120**	**6,097**	**194,928**	**225,478**	**209,632**
Argentina	13,220	8,700	8,900	476	410	405	9,500	11,530	12,400
Australia	18,666	16,127	17,356	632	864	687	238	291	228
Belgium [1]	1,330	1,215	[2] 1,265	(NA)	(NA)	(NA)	53	[2] 90	[2] 58
Brazil	1,983	4,323	5,433	9,027	9,019	10,399	21,164	22,020	20,510
Burma	214	206	248	14,255	15,219	[3] 15,000	303	323	[3] 350
Canada	21,199	24,252	31,850	(NA)	(NA)	(NA)	7,024	7,472	6,694
China: Mainland [3]	87,817	85,812	89,002	181,193	171,417	177,000	73,600	64,056	65,560
Egypt	1,815	1,872	1,929	2,236	2,310	[2] 2,450	3,170	[2] 3,982	[2] 3,801
France	32,977	28,890	26,587	36	62	60	10,493	12,409	10,792
Greece	2,308	1,789	2,200	92	103	102	2,091	1,948	2,070
Hungary	7,392	6,578	5,803	33	38	44	6,686	6,818	7,214
India	45,476	44,069	46,885	87,553	96,306	90,000	8,442	6,890	8,000
Indonesia	(NA)	(NA)	(NA)	38,136	39,033	39,275	5,288	4,330	5,767
Iran	[3] 5,500	6,661	7,128	1,600	1,523	1,569	[2] 50	[2] 50	[3] 50
Iraq	471	1,406	[2] 1,100	109	149	[2] 145	30	41	[2] 36
Italy	10,057	8,516	9,070	1,009	1,123	1,082	6,672	6,309	6,560
Japan	741	874	876	14,848	14,578	14,559	2	2	1
Mexico	4,505	5,207	4,772	484	809	523	12,910	13,957	12,154
Pakistan	10,882	11,703	13,923	4,973	4,437	5,241	1,028	1,009	1,067
South Korea	17	11	[2] 5	7,970	7,855	7,790	133	132	113
Soviet Union	68,600	78,100	92,300	2,720	2,570	2,600	13,600	14,400	12,500
Sweden	1,776	1,338	1,714	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Thailand	(NA)	(NA)	(NA)	19,905	20,264	19,100	4,226	4,934	4,197
United Kingdom	14,970	12,046	13,874	(NA)	(NA)	(NA)	[3] 1	[3] 1	[3] 1
Vietnam	(NA)	(NA)	(NA)	15,506	15,875	16,197	525	600	[2] 600
West Germany	10,223	9,866	10,406	(NA)	(NA)	(NA)	1,026	1,204	1,302
Yugoslavia	5,595	4,859	4,776	36	36	48	11,312	9,896	12,502

NA Not available. [1] Includes Luxembourg. [2] Unofficial figure. [3] FAO estimate.

Source: Food and Agriculture Organization of the United Nations, Rome, Italy, *1986 FAO Production Yearbook*, vol. 40 (copyright).

No. 1475. Fisheries—Commercial Catch, by Country: 1983 to 1987

[**In billions of pounds, live weight.** Catch of fish, crustaceans, mollusks (including weight of shells), and other aquatic plants and animals, except whales and seals]

Country	1983	1984	1985	1986	1987
World total [1]	**170.3**	**183.2**	**190.6**	**203.7**	**205.1**
United States	**9.4**	**10.6**	**10.5**	**10.9**	**12.7**
Canada	3.0	2.8	3.1	3.3	3.2
Chile	8.8	9.9	10.6	12.3	10.6
China: Mainland	11.5	13.1	14.9	17.6	20.6
Denmark	4.1	4.1	3.9	4.1	3.7
Iceland	1.8	3.4	3.7	3.7	3.6
India	5.5	6.3	6.2	6.4	6.4
Indonesia	4.9	4.4	5.2	5.4	5.8
Japan	24.8	26.5	25.2	26.4	26.1
Mexico	2.3	2.4	2.7	2.9	3.1
North Korea (est.)	3.5	3.6	3.7	3.7	3.7
Norway	6.3	5.4	4.7	4.2	4.3
Peru	3.5	7.4	9.2	12.4	10.1
Philippines	4.4	4.3	4.1	4.2	4.4
South Korea	5.3	5.5	5.8	6.8	6.3
Soviet Union	21.5	23.4	23.2	24.8	24.6
Spain	2.9	2.9	3.0	3.2	3.1
Thailand	5.0	4.7	4.9	5.6	4.8

[1] Includes other countries not shown separately.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual. Data from Food and Agricultural Organization of the United Nations, Rome, Italy.

No. 1476. Meat—Production, by Country: 1980 to 1987

[**In thousands of metric tons, carcass weight.** Covers beef and veal (incl. buffalo meat), pork (incl. bacon and ham), and mutton and lamb (incl. goat meat). Refers to meat from animals slaughtered within the national boundaries irrespective of origin of animals, and relates to commercial and farm slaughter. Excludes lard, tallow, and edible offals. See text, section 31, for general comments concerning the data]

Country	1980	1985	1987, est.
World, total	**104,535**	**115,537**	**119,724**
United States	17,680	17,874	17,564
Argentina	3,220	3,077	2,951
Australia [1]	2,332	2,086	2,373
Brazil	3,115	3,045	3,003
China	12,664	18,443	20,136
France	3,823	3,733	3,853
Italy	2,305	2,462	2,413
Japan	1,893	2,087	2,155
Mexico	2,044	2,289	2,125
Poland	2,397	2,192	2,502
Soviet Union	12,698	14,050	15,210
United Kingdom	2,305	2,419	2,440
West Germany	4,759	4,845	5,095

[1] Year ending June 30.

Source: Statistical Office of the United Nations, New York, NY, *Statistical Yearbook*. (Copyright.)

No. 1477. Foreign Trade of Selected Countries—Source of Imports and Destination of Exports: 1988

[In billions of dollars, except percent. All exports are f.o.b. (free on board) and all imports are c.i.f. (cost insurance freight) except for U.S., Australian and Canadian imports, which are f.o.b.]

Country	Total [1]	O.E.C.D.[2] Total	O.E.C.D.[2] E.E.C.[3]	Soviet Union and Eastern Europe	China: Mainland, Vietnam, North Korea	O.P.E.C.[4]	Other developing countries [5]	Africa	America [6]	Middle East [7]	Far East [8]
IMPORTS											
United States	**441.3**	**275.0**	**85.0**	**2.2**	**8.5**	**23.1**	**132.6**	**10.9**	**51.3**	**11.5**	**80.9**
Australia	33.3	25.6	7.8	.2	.7	.9	5.9	.2	.5	.8	5.2
Austria	36.6	31.1	24.9	2.3	.2	.6	2.4	.6	.5	.3	1.2
Belgium [9]	92.1	80.1	67.3	1.9	.2	2.3	7.5	3.8	1.6	2.0	2.3
Canada	106.8	93.9	13.0	.4	.8	1.0	9.8	.8	3.5	.3	6.1
Denmark	26.5	22.8	13.6	.7	.3	.5	2.2	.2	.9	.4	1.0
France	176.8	143.3	106.7	4.7	1.5	6.1	18.4	9.0	4.2	3.4	7.0
Italy	139.0	107.0	80.0	5.6	1.4	8.1	16.6	9.9	3.8	4.0	4.5
Japan	187.5	93.0	24.2	3.5	10.4	26.9	53.8	4.2	8.2	19.2	48.0
Netherlands	99.3	82.9	71.2	2.1	5.1	4.8	4.4	2.7	2.8	3.5	4.7
Spain	60.3	46.8	34.3	1.5	.4	4.0	7.5	3.8	3.2	1.9	2.4
Sweden	45.5	40.0	25.5	1.7	.3	.5	3.1	.2	.9	.4	1.8
Switzerland	56.3	50.5	40.1	.7	.2	.6	4.3	1.1	1.3	.5	1.9
United Kingdom	189.3	160.3	99.4	2.8	.8	3.0	21.1	4.2	3.5	3.1	12.5
West Germany	250.5	202.6	129.8	9.1	2.5	6.2	30.0	8.1	7.6	2.8	13.9
Percent distribution:											
United States	**100.0**	**62.3**	**19.3**	**.5**	**1.9**	**5.2**	**30.0**	**2.5**	**11.6**	**2.6**	**18.3**
Australia	100.0	76.6	23.5	.5	2.1	2.8	17.7	.5	1.4	2.3	15.7
Austria	100.0	85.0	68.1	6.3	.5	1.6	6.6	1.7	1.3	.7	3.4
Belgium [9]	100.0	87.0	73.1	2.0	.3	2.5	8.1	4.1	1.7	2.2	2.5
Canada	100.0	87.9	12.2	.4	.7	1.0	9.2	.7	3.3	.3	5.7
Denmark	100.0	86.0	51.4	2.6	1.2	1.7	8.4	.7	3.3	1.6	3.8
France	100.0	81.0	60.4	2.7	.8	3.5	10.4	5.1	2.4	1.9	3.9
Italy	100.0	77.0	57.5	4.0	1.0	5.8	11.9	7.1	2.8	2.9	3.2
Japan	100.0	49.6	12.9	1.8	5.5	14.3	28.7	2.2	4.4	10.3	25.6
Netherlands	100.0	83.4	71.6	2.1	5.2	4.9	4.4	2.7	2.8	3.5	4.7
Spain	100.0	77.5	56.9	2.6	.6	6.7	12.4	6.3	5.3	3.1	3.9
Sweden	100.0	87.9	56.0	3.7	.6	1.0	6.8	.4	2.1	.8	4.0
Switzerland	100.0	89.7	71.3	1.2	.4	1.1	7.6	1.9	2.3	1.0	3.3
United Kingdom	100.0	84.7	52.5	1.5	.4	1.6	11.2	2.2	1.8	1.6	6.6
West Germany	100.0	80.9	51.8	3.6	1.0	2.5	12.0	3.2	3.0	1.1	5.5
EXPORTS											
United States	**320.4**	**202.1**	**75.9**	**3.6**	**5.1**	**14.0**	**95.4**	**7.4**	**43.9**	**10.9**	**46.1**
Australia	32.7	19.8	4.8	.9	.9	1.4	9.1	.5	.3	1.1	7.5
Austria	31.0	25.2	19.8	2.8	.2	.9	1.9	.6	.2	.7	.6
Belgium [9]	92.0	80.7	68.3	1.1	.4	1.5	7.6	2.2	.7	2.5	3.4
Canada	111.9	100.5	9.0	1.1	2.1	1.4	6.8	1.0	2.4	.6	6.2
Denmark	27.9	20.7	13.8	.5	.1	.6	2.7	.7	.7	.6	.8
France	161.7	129.7	99.7	3.3	1.0	5.9	21.7	11.7	5.1	3.7	5.4
Italy	129.1	103.7	73.9	3.6	1.3	6.0	13.8	6.2	2.7	4.4	4.1
Japan	265.0	160.5	47.2	3.9	9.9	11.4	79.2	5.8	8.7	8.0	67.1
Netherlands	103.1	90.9	77.0	1.5	.3	2.5	7.1	2.8	1.2	1.8	3.4
Spain	40.2	32.6	26.4	.5	.2	1.8	4.6	2.2	1.6	1.3	.9
Sweden	49.7	43.3	26.0	1.0	.3	1.2	3.9	.9	.9	.9	2.0
Switzerland	50.6	39.8	28.3	1.7	.4	2.0	6.7	1.2	1.5	2.2	3.3
United Kingdom	144.9	114.0	73.0	2.1	.7	7.7	19.0	6.0	2.6	7.9	9.1
West Germany	323.3	271.1	176.0	11.2	2.8	8.8	28.9	9.0	5.6	7.3	11.8
Percent distribution:											
United States	**100.0**	**63.1**	**23.7**	**1.1**	**1.6**	**4.4**	**29.8**	**2.3**	**13.7**	**3.4**	**14.4**
Australia	100.0	60.7	14.6	2.8	2.8	4.3	28.0	1.4	1.0	3.3	23.1
Austria	100.0	81.3	63.8	9.1	.6	3.0	6.0	2.0	.7	2.4	1.9
Belgium [9]	100.0	87.8	74.3	1.2	.4	1.6	8.3	2.4	.8	2.7	3.7
Canada	100.0	89.8	8.0	1.0	1.9	1.2	6.1	.9	2.1	.6	5.6
Denmark	100.0	74.3	49.4	1.9	.5	2.1	9.7	2.4	2.6	2.1	2.9
France	100.0	80.2	61.6	2.1	.6	3.7	13.4	7.3	3.1	2.3	3.3
Italy	100.0	80.3	57.2	2.8	1.0	4.7	10.7	4.8	2.1	3.4	3.2
Japan	100.0	60.6	17.8	1.5	3.7	4.3	29.9	2.2	3.3	3.0	25.3
Netherlands	100.0	88.2	74.7	1.4	.3	2.4	6.9	2.7	1.1	1.8	3.3
Spain	100.0	80.9	65.6	1.3	.6	4.5	11.4	5.4	3.9	3.1	2.2
Sweden	100.0	87.1	52.3	2.1	.5	2.4	7.9	1.9	1.8	1.8	4.1
Switzerland	100.0	78.6	56.0	3.3	.8	3.9	13.3	2.4	3.0	4.4	6.6
United Kingdom	100.0	78.6	50.4	1.5	.5	5.3	13.1	4.1	1.8	5.5	6.3
West Germany	100.0	83.8	54.4	3.5	.9	2.7	8.9	2.8	1.7	2.3	3.6

[1] Includes other areas not shown separately. [2] Organization for Economic Cooperation and Development. For member countries, see text, section 31. [3] European Economic Community comprises Belgium-Luxembourg, Denmark, France, Greece, Ireland, Italy, Netherlands, Portugal, Spain, United Kingdom, and West Germany. [4] Organization of Petroleum Exporting Countries. For member countries, see footnote 4, table 1484. [5] Comprises trade with all countries other than China: Mainland, North Korea, Vietnam, South Africa, Soviet Union, Eastern Europe, and members of O.P.E.C. and O.E.C.D. [6] All countries comprising the continent except Canada and the United States. [7] Comprises Syria, Lebanon, Israel, Gaza Strip, Jordan, Iraq, Saudi Arabia, Yemen (Aden), Yemen (Sanaa), Kuwait, Bahrain, United Arab Emirates, Qatar, Oman, and Iran. [8] All countries comprising the continent of Asia except Japan, China: Mainland, North Korea, Vietnam, and those countries listed under Middle East. [9] Includes Luxembourg.

Source: Organization for Economic Cooperation and Development, Paris, France. Data derived from *Monthly Statistics of Foreign Trade*, series A, May 1989.

No. 1478. Reserve Assets and International Transaction Balances: 1985 to 1988

[In millions of U.S. dollars. Assets include holdings of convertible foreign currencies, special drawing rights, and reserve position in International Monetary Fund and exclude gold holdings. Minus sign (–) indicates debits]

Country	Total reserve assets				Current account balance			Merchandise trade balance		
	1985	1987	1988		1985	1987	1988	1985	1987	1988
			Total	Currency holdings [1]						
United States	32,100	34,720	36,740	17,360	–115,160	–143,080	–126,190	–122,150	–158,880	–126,780
Algeria	2,819	1,640	900	898	1,015	(NA)	(NA)	4,223	(NA)	(NA)
Argentina	3,273	1,617	3,363	3,363	–952	–4,239	–1,246	4,878	968	4,043
Australia	5,768	8,744	13,598	12,989	–8,717	–8,656	–10,537	–1,284	–480	–1,136
Austria	4,767	7,532	7,368	6,711	–273	–429	–702	–4,406	–5,144	–5,828
Bangladesh	337	843	1,046	962	–540	–335	–287	–1,287	–1,369	–1,444
Belgium	4,849	9,620	9,333	8,306	669	2,920	(NA)	–472	–156	(NA)
Brazil	10,605	6,299	(NA)	(NA)	–273	–1,450	(NA)	12,466	11,158	(NA)
Burma	34	27	(NA)	(NA)	–206	(NA)	(NA)	–202	(NA)	(NA)
Cameroon	132	64	151	150	586	(NA)	(NA)	516	(NA)	(NA)
Canada	2,503	7,277	15,391	13,517	–1,426	–7,975	–9,114	12,580	8,759	8,479
Chile	2,450	2,504	3,161	3,116	–1,328	–811	(NA)	850	1,230	(NA)
China: Mainland	12,728	16,305	18,541	17,548	–11,417	300	(NA)	–13,123	–1,661	(NA)
Colombia	1,595	3,086	3,248	3,094	–1,809	336	(NA)	–23	1,868	(NA)
Denmark	5,429	10,066	10,765	10,224	–2,728	–3,047	–1,802	–771	795	2,063
Ecuador	718	491	398	396	149	–1,131	–597	1,294	–33	589
Egypt	792	1,378	1,263	1,263	–1,454	407	–1,190	–4,503	–4,327	–6,751
Finland	3,750	6,418	6,369	5,875	–766	–1,949	–2,998	878	1,323	1,136
France	26,589	33,049	25,364	22,359	–35	–4,077	–3,791	–5,276	–9,249	–8,732
Ghana	479	195	221	221	–134	–97	(NA)	–36	–125	(NA)
Greece	868	2,681	3,619	3,523	–3,276	–1,223	–958	–5,053	–5,500	–6,072
Hungary	3,119	2,272	1,867	1,867	–52	–580	(NA)	610	166	(NA)
India	6,420	6,454	4,899	4,148	–4,178	(NA)	(NA)	–5,616	(NA)	(NA)
Indonesia	4,974	5,592	5,048	4,948	1,923	–2,098	–1,189	5,822	4,674	5,726
Ireland	2,940	4,796	5,087	4,725	688	375	651	633	2,619	3,829
Israel	3,680	5,876	4,016	4,016	1,156	–977	–678	–2,415	–3,834	–3,144
Italy	15,595	30,214	34,715	32,500	–3,540	–1,510	–4,636	–6,083	–72	–767
Ivory Coast	5	9	(NA)	(NA)	64	(NA)	(NA)	1,351	(NA)	(NA)
Japan	26,719	80,973	96,728	90,514	49,170	87,000	79,590	55,990	96,460	94,990
Kenya	391	256	264	247	–174	–491	(NA)	–387	–714	(NA)
Kuwait	5,471	4,142	1,924	1,366	4,815	4,676	4,713	4,712	3,545	1,907
Libya	5,904	5,838	4,322	3,699	2,083	(NA)	(NA)	4,648	(NA)	(NA)
Malaysia	4,912	7,435	6,527	6,134	–613	2,572	1,884	3,577	5,886	5,643
Mexico	4,906	12,464	5,279	4,885	1,130	3,968	–2,905	8,451	8,433	1,752
Morocco	115	411	547	547	–891	175	(NA)	–1,368	–1,069	(NA)
Nepal	56	178	220	213	–122	(NA)	(NA)	–283	(NA)	(NA)
Netherlands	10,782	16,003	16,075	14,542	4,057	3,811	5,310	5,462	5,160	8,171
Nigeria	1,667	1,165	651	651	2,623	–71	–1,013	5,735	3,523	2,419
Norway	13,917	14,277	13,268	12,173	3,052	–4,151	–3,678	4,728	–818	–111
Pakistan	807	502	395	388	–1,080	–562	(NA)	–3,230	–2,316	(NA)
Peru	1,842	646	518	518	135	–1,477	–1,128	1,172	–521	–56
Philippines	615	968	1,003	951	–18	–498	–373	–482	–1,017	–1,085
Poland	870	1,495	2,055	2,055	–991	–372	(NA)	347	790	(NA)
Portugal	1,395	3,327	5,127	5,083	410	640	–629	–1,457	–3,375	–5,137
Romania	199	(NA)	(NA)	(NA)	1,239	(NA)	(NA)	1,735	(NA)	(NA)
Saudi Arabia	25,004	22,684	20,553	11,219	–12,932	9,570	(NA)	7,029	5,340	(NA)
Singapore	12,847	15,227	17,073	16,861	–4	553	1,660	–2,829	–2,636	–2,345
South Africa	315	641	780	779	2,622	3,002	1,272	5,842	7,163	5,222
South Korea	2,869	3,584	12,347	12,340	–887	9,854	14,161	–19	7,659	11,445
Spain	11,175	30,669	37,074	35,401	2,851	–135	(NA)	–4,171	–12,980	(NA)
Sri Lanka	451	279	222	222	–419	–326	–404	–523	–472	–544
Sudan	12	12	12	12	152	–233	–323	–135	–430	–522
Sweden	5,793	8,174	8,492	7,752	1,608	1,247	–2,549	2,385	4,479	4,748
Switzerland	18,016	27,476	24,203	24,045	6,039	5,881	(NA)	–1,561	–5,531	(NA)
Syria	85	(NA)	(NA)	(NA)	–952	(NA)	(NA)	1,951	(NA)	(NA)
Thailand	2,190	4,007	6,097	5,997	–1,537	–365	–1,671	–1,332	–424	–2,074
Trinidad and Tobago	1,129	188	125	125	–90	–247	(NA)	756	350	(NA)
Turkey	1,056	1,776	2,344	2,301	–1,030	–979	1,500	–2,975	–3,229	–1,800
United Kingdom	12,860	41,720	44,100	41,120	4,765	–4,913	–26,089	–2,653	–16,723	–36,514
Venezuela	10,251	5,963	3,092	2,975	3,668	–1,125	–4,692	7,130	1,735	–1,347
West Germany	44,380	78,756	58,528	53,324	16,980	45,630	48,580	28,510	69,880	78,640
Yugoslavia	1,095	698	2,298	2,298	833	1,249	(NA)	–588	83	(NA)
Zaire	190	181	187	187	–218	–648	–693	666	349	563

NA Not available. [1] Holdings of convertible foreign currencies.

Source: International Monetary Fund, Washington, DC, *International Financial Statistics*, monthly with annual supplements.

No. 1479. Foreign Exchange Rates: 1970 to 1989

[National currency units per dollar, except as noted. Except as indicated, data are annual averages of certified noon buying rates for cable transfers]

YEAR	Australia [1] (dollar)	Austria (schilling)	Belgium (franc)	Canada (dollar)	China: Taiwan (dollar)	Denmark (krone)	France (franc)	Greece (drachma)	Hong Kong (dollar)
1970	111.36	25.880	49.680	1.0103	40.050	7.4890	5.5200	30.00	6.0600
1975	130.77	17.443	36.799	1.0175	38.000	5.7481	4.2876	32.29	4.9390
1977	110.82	16.545	35.848	1.0633	38.000	6.0049	4.9160	36.84	4.6620
1978	114.41	14.525	31.493	1.1405	37.054	5.5162	4.5090	36.75	4.6850
1979	111.77	13.387	29.342	1.1603	36.048	5.2622	4.2566	37.04	5.0030
1980	114.00	12.945	29.237	1.1693	36.015	5.6345	4.2250	42.62	4.9760
1981	114.95	15.948	37.194	1.1990	36.849	7.1350	5.4396	55.41	5.5678
1982	101.65	17.060	45.780	1.2344	39.124	8.3443	6.5793	66.87	6.0697
1983	90.14	17.968	51.121	1.2325	40.065	9.1483	7.6203	87.90	7.2569
1984	87.94	20.005	57.749	1.2953	39.633	10.3540	8.7355	112.73	7.8188
1985	70.03	20.676	59.336	1.3658	39.889	10.5980	8.9799	138.40	7.7911
1986	67.09	15.260	44.662	1.3896	37.837	8.0954	6.9256	139.93	7.8037
1987	70.14	12.649	37.357	1.3259	31.756	6.8477	6.0121	135.47	7.7985
1988	78.41	12.357	36.783	1.2306	28.636	6.7411	5.9594	142.00	7.8071
1989, June	81.11	13.320	39.651	1.1928	26.959	7.3727	6.4235	160.13	7.7929

YEAR	India (rupee)	Ireland [1] (pound)	Italy (lira)	Japan (yen)	Malaysia (ringgit)	Netherlands (guilder)	New Zealand [1] (dollar)	Norway (krone)	Portugal (escudo)
1970	7.576	239.59	623.00	357.60	3.0900	3.5970	111.48	7.1400	28.75
1975	8.409	222.16	653.09	296.78	2.4030	2.5293	121.16	5.2282	25.51
1977	8.769	174.49	882.76	268.62	2.4625	2.4547	96.89	5.3239	38.34
1978	8.198	191.84	849.12	210.38	2.3168	2.1642	103.64	5.2466	44.03
1979	8.156	204.65	831.10	219.02	2.1721	2.0072	102.23	5.0650	48.95
1980	7.887	205.77	856.20	226.63	2.1767	1.9875	97.34	4.9381	50.08
1981	8.681	161.32	1,138.60	220.63	2.3048	2.4998	86.85	5.7430	61.74
1982	9.485	142.05	1,354.00	249.06	2.3395	2.6719	75.10	6.4567	80.10
1983	10.104	124.81	1,519.30	237.55	2.3204	2.8543	66.79	7.3012	111.61
1984	11.348	108.64	1,756.10	237.45	2.3448	3.2083	57.84	8.1596	147.70
1985	12.332	106.62	1,908.90	238.47	2.4806	3.3184	49.75	8.5933	172.07
1986	12.597	134.14	1,491.16	168.35	2.5830	2.4484	52.46	7.3984	149.80
1987	12.943	148.79	1,297.03	144.60	2.5185	2.0263	59.33	6.7408	141.20
1988	13.899	152.49	1,302.39	128.17	2.6189	1.9778	65.56	6.5242	144.26
1989, June	15.690	141.14	1,383.80	133.48	2.7222	2.1361	60.76	6.8784	156.37

YEAR	Singapore (dollar)	South Africa [1] (rand)	South Korea (won)	Spain (peseta)	Sweden (krona)	Switzerland (franc)	Thailand (baht)	United Kingdom [1] (pound)	West Germany (deutsche mark)
1970	3.0800	139.24	310.57	69.72	5.1700	4.3160	21.000	239.59	3.6480
1975	2.3713	136.47	484.00	57.43	4.1530	2.5839	20.379	222.16	2.4613
1977	2.4394	114.99	484.00	75.99	4.4801	2.4064	20.400	174.49	2.3236
1978	2.2740	115.01	484.00	76.72	4.5206	1.7906	20.336	191.84	2.0096
1979	2.1746	118.72	484.00	67.16	4.2892	1.6643	20.419	212.24	1.8342
1980	2.1412	128.54	607.43	71.76	4.2309	1.6772	20.476	232.43	1.8175
1981	2.1053	114.77	681.03	92.40	5.0659	1.9674	21.731	202.43	2.2631
1982	2.1406	92.30	731.93	110.09	6.2838	2.0327	23.014	174.80	2.4280
1983	2.1136	89.85	776.04	143.50	7.6717	2.1006	22.991	151.59	2.5539
1984	2.1325	69.53	807.91	160.78	8.2706	2.3500	23.582	133.66	2.8454
1985	2.2008	45.57	861.89	169.98	8.6031	2.4551	27.193	129.74	2.9419
1986	2.1782	43.95	884.61	140.04	7.1272	1.7979	26.314	146.77	2.1704
1987	2.1059	49.08	825.93	123.54	6.3468	1.4918	25.774	163.98	1.7981
1988	2.0132	44.15	734.51	116.52	6.1369	1.4642	25.312	178.13	1.7569
1989, June	1.9461	39.03	675.23	118.64	6.4429	1.6410	25.581	168.46	1.8936

[1] Value is U.S. cents per unit of foreign currency.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

No. 1480. Exchange Rates—Indexes of Value of Foreign Currency Relative to U.S. Dollar: 1970 to 1988

[1977 = 100]

YEAR	United States	Canada	Japan	Belgium	Denmark	France	Italy	Netherlands	Norway	Sweden	United Kingdom	West Germany
1970	100.0	101.8	74.8	72.2	80.0	88.9	140.8	67.9	74.5	86.1	137.3	63.7
1975	100.0	104.4	90.3	97.6	104.7	114.8	135.3	97.3	102.1	107.9	127.3	94.5
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	100.0	93.2	128.5	114.0	109.0	109.2	104.0	113.6	101.5	98.9	109.9	115.8
1979	100.0	90.7	122.7	122.2	114.1	115.5	106.2	122.3	105.1	104.2	121.6	126.7
1980	100.0	90.9	118.7	122.7	106.7	116.5	103.2	123.6	107.8	105.6	133.3	127.9
1981	100.0	88.6	121.4	96.8	84.1	90.4	77.5	98.6	92.7	88.2	116.0	103.0
1982	100.0	86.1	107.5	78.3	71.9	74.7	65.2	91.8	82.4	71.1	100.2	95.6
1983	100.0	86.2	112.7	70.1	65.6	64.5	58.1	86.0	72.9	58.2	86.9	90.9
1984	100.0	82.0	112.8	62.0	58.0	56.3	50.3	76.5	65.2	54.0	76.6	81.6
1985	100.0	77.8	112.3	60.4	56.6	54.7	46.2	73.9	61.9	51.9	74.4	78.9
1986	100.0	76.5	159.1	80.2	74.2	71.0	59.2	100.2	71.9	62.7	84.1	107.0
1987	100.0	80.1	185.2	95.9	87.7	81.8	68.1	121.1	79.0	70.4	94.0	129.1
1988	100.0	86.3	208.9	97.4	89.1	82.5	67.8	124.1	81.6	72.8	102.1	132.1

Source: U.S. Bureau of Labor Statistics, News Release USDL: 89-322, "*International Comparisons of Manufacturing Productivity and Labor Cost Trends*"; June 30, 1989.

No. 1481. Central Bank Discount Rates, Money Market Rates, and Government Bond Yields—Selected Countries: 1980 to 1989

[**In percent per annum. Central bank discount rates** refer to the rate at which the monetary authority lends or discounts eligible paper for deposit money banks. **Money market rates** refer to the rate at which short-term borrowings are effected between financial institutions. **Government bond yields** refer to one or more series representing average yields to maturity of government bonds or other bonds that would be indicative of longer term rates]

NATIONAL INTEREST RATE AND YEAR	United States	Canada	Japan	France	Italy	Netherlands	Sweden	Switzerland	United Kingdom	West Germany
Central bank discount rates: [1]										
1980	13.00	17.26	7.25	9.50	16.50	8.00	10.00	3.00	14.00	7.50
1984	8.00	10.16	5.00	9.50	16.50	5.00	9.50	4.00	(2)	4.50
1985	7.50	9.49	5.00	9.50	15.00	5.00	10.50	4.00	(2)	4.00
1986	5.50	8.49	3.00	9.50	12.00	4.50	7.50	4.00	(2)	3.50
1987	6.00	8.66	2.50	9.50	12.00	3.75	7.50	2.50	(2)	2.50
1988	6.50	11.17	2.50	9.50	12.50	4.50	8.50	3.50	(2)	3.50
1989, June	7.00	12.31	3.25	9.50	(NA)	6.00	9.50	5.50	(2)	5.00
Money market rates: [3]										
1980	13.36	13.28	(NA)	11.85	17.17	10.13	12.17	2.29	15.62	9.10
1984	10.23	10.91	6.10	11.74	17.27	5.78	11.77	3.34	7.62	5.55
1985	8.10	9.57	6.46	9.93	15.25	6.30	13.85	3.75	10.78	5.20
1986	6.81	9.30	4.79	7.74	13.41	5.83	10.15	3.17	10.68	4.60
1987	6.66	8.03	3.51	7.98	11.51	5.16	9.16	2.51	9.66	3.70
1988	7.61	9.40	3.62	7.52	11.29	4.48	10.08	2.22	10.31	4.00
1989, June	9.53	12.13	4.85	8.95	12.59	6.76	11.81	6.94	14.15	6.50
Government bond yields:										
1980	11.46	12.48	9.22	13.03	16.11	10.21	11.74	4.77	13.79	8.50
1984	12.52	12.75	6.81	12.54	14.95	8.33	12.28	4.70	10.69	7.78
1985	10.62	11.04	6.34	10.94	13.00	7.34	13.09	4.78	10.62	6.87
1986	7.68	9.52	4.94	8.44	10.52	6.35	10.26	4.29	9.87	5.92
1987	8.38	9.95	4.21	9.43	9.65	6.38	(NA)	4.12	9.48	5.84
1988	8.85	10.22	4.27	9.06	10.16	6.29	(NA)	4.15	9.36	6.10
1989, June	8.28	9.60	5.16	8.69	(NA)	7.19	(NA)	5.12	9.88	6.90

NA Not available. [1] End of period. [2] Minimum lending rate suspended as of August 20, 1981. [3] Period averages.

Source: International Monetary Fund, Washington, DC, *International Financial Statistics*, monthly.

No. 1482. External Debt of Soviet Union and Eastern European Countries: 1975 to 1988

[**In billions of dollars.** Net debt represents gross debt minus assets held with Western commercial banks]

TYPE AND SOURCE	1975	1980	1982	1983	1984	1985	1986	1987	1988
Gross debt, total	**42.2**	**104.2**	**102.7**	**103.9**	**102.0**	**117.3**	**136.6**	**153.8**	**151.9**
Soviet Union: Gross debt	12.5	20.5	21.9	22.0	22.3	29.0	36.0	40.8	42.3
Commercial debt	8.2	11.0	12.8	12.6	13.2	19.5	25.9	30.1	31.5
Official debt	4.3	9.5	9.1	9.4	9.1	9.5	10.1	10.7	10.8
Net debt	8.7	10.5	10.0	9.8	10.8	15.7	21.1	25.9	27.9
Bulgaria: Gross debt	2.6	3.5	2.8	2.4	2.2	3.7	4.9	6.1	7.1
Commercial debt	2.5	3.2	2.3	1.9	1.8	3.1	4.2	5.3	6.1
Official debt	.2	.3	.5	.5	.5	.6	.7	.9	1.0
Net debt	2.3	2.7	1.8	1.2	.8	1.5	3.6	5.0	(NA)
Czechoslovakia: Gross debt	1.1	4.9	4.0	4.0	3.6	3.8	4.5	5.8	6.1
Commercial debt	.9	4.1	3.1	2.9	2.6	2.8	3.4	4.5	4.8
Official debt	.2	.9	.9	1.1	1.0	1.0	1.1	1.3	1.3
Net debt	.8	3.7	3.3	3.0	2.6	2.8	3.3	4.2	(NA)
East Germany: Gross debt	5.4	14.1	13.2	13.1	12.4	14.0	17.0	20.4	19.5
Commercial debt	4.4	11.3	9.6	9.1	8.2	10.1	13.1	16.5	16.2
Official debt	1.0	2.8	3.6	3.9	4.2	3.9	3.9	3.9	3.3
Net debt	3.7	11.6	11.2	9.7	7.8	7.6	9.6	11.4	(NA)
Hungary: Gross debt	3.1	9.1	7.7	8.2	8.8	11.8	15.1	17.7	18.0
Commercial debt	3.1	8.8	7.0	6.9	7.0	9.8	12.7	15.2	15.6
Official debt	-	.3	.5	.7	.8	.8	.9	1.0	1.0
BIS/IMF [1]	-	-	.2	.6	1.1	1.2	1.5	1.6	1.4
Net debt	2.2	7.0	6.6	6.8	6.7	8.6	12.0	15.5	(NA)
Poland: Gross debt	8.0	25.0	24.8	26.4	26.8	29.3	33.5	39.2	38.5
Commercial debt	5.9	14.9	13.6	10.9	9.4	10.6	12.1	12.8	11.9
Official debt	2.1	10.1	11.2	15.5	17.4	18.7	21.4	26.4	26.6
Net debt	7.4	24.4	23.8	25.2	25.3	27.7	31.8	36.2	(NA)
Romania: Gross debt	2.9	9.4	9.8	8.8	7.1	6.6	6.4	5.1	2.2
Commercial debt	2.0	6.5	5.4	4.8	3.4	2.9	2.7	1.7	.4
Official debt	.7	1.7	1.4	.9	1.1	1.1	1.1	.8	.6
IMF/World Bank/CEMA bank [1]	.2	1.2	2.9	3.1	2.6	2.6	2.6	2.6	1.2
Net debt	2.4	9.1	9.3	8.2	6.4	6.4	5.8	4.5	(NA)
Yugoslavia: Gross debt	6.6	17.4	18.5	19.0	18.8	19.2	19.4	18.7	18.2
Commercial debt	4.3	12.8	11.9	10.3	9.0	7.8	7.4	7.6	7.8
Official debt	1.6	2.6	3.1	4.6	5.8	7.1	7.7	6.6	5.4
IMF/World Bank [1]	.7	2.1	3.5	4.1	4.1	4.3	4.2	4.5	5.0
Net debt	5.8	16.2	17.7	18.1	17.7	18.1	17.9	18.0	(NA)

- Represents zero. NA Not available. [1] BIS=Bank of International Settlements. IMF=International Monetary Fund. CEMA=Council for Economic Mutual Assistance.

Source: U.S. Central Intelligence Agency, *Handbook of Economic Statistics, 1989;* and unpublished data.

No. 1483. Total External Public Debt, 1980 to 1987, and by Type of Creditor, 1987, and Debt Service Payments and Ratio, 1980 to 1987

[External public debt is defined as debt repayable to external creditors in foreign currency, goods, or services, with an original or extended maturity of more than one year, which is a direct obligation of, or has repayment guaranteed by, a public body in the borrowing country. Excludes undisbursed debt (amounts not yet drawn by recipient) and unguaranteed private debt, which for some countries is substantial. Debt contracted for the purchase of military equipment is not usually reported. Debt service payments represent the sum of interest payments and repayments of principal on external public debt]

Country	Total external public debt (mil. dol.)							Debt service payments (mil. dol.)			Debt service ratio [3] (percent)		
	1980	1985	1986	1987				1980	1985	1987	1980	1985	1987
				Total [1]	Bilateral official	Banks [2]	International organizations						
Algeria	16,361	13,468	16,148	19,240	2,292	12,282	976	3,854	4,581	4,920	26.3	33.1	47.8
Argentina [4]	10,181	35,706	38,774	47,451	3,190	39,664	3,934	1,987	4,259	3,894	16.6	40.6	45.3
Bangladesh	3,549	5,978	7,272	8,851	4,398	53	4,235	78	223	323	8.0	18.3	24.2
Bolivia	2,228	3,484	4,064	4,599	2,344	1,006	1,171	290	249	137	27.9	34.3	22.1
Brazil	40,434	73,672	84,349	91,653	12,889	63,741	12,312	8,050	7,839	7,656	34.6	26.7	26.7
Cameroon	2,049	2,007	2,378	2,785	1,155	409	1,075	186	244	336	10.2	8.7	15.9
Chile	4,705	12,904	14,604	15,536	739	11,263	3,218	1,375	1,230	1,367	21.9	26.3	21.1
China: Mainland	4,504	10,303	16,439	23,659	6,360	12,522	3,167	930	1,885	2,842	4.6	6.4	7.1
Colombia	4,089	9,570	12,185	13,828	2,489	4,882	5,773	529	1,412	2,372	9.0	30.6	33.4
Congo	1,427	2,397	3,001	3,679	1,198	1,913	397	91	399	195	8.8	32.5	18.6
Costa Rica	1,692	3,505	3,580	3,629	941	1,616	1,057	205	448	182	16.8	35.2	12.1
Dominican Republic	1,220	2,632	2,758	2,938	1,369	747	752	154	202	162	11.7	15.0	(NA)
Ecuador	3,300	7,161	8,193	9,026	1,363	5,468	1,797	559	896	494	18.9	27.0	20.7
Egypt	15,785	29,041	32,093	34,515	23,319	1,351	5,070	1,462	2,079	1,495	17.8	23.7	17.1
El Salvador	524	1,478	1,497	1,597	763	81	754	42	196	180	3.3	20.6	19.4
Ethiopia	701	1,753	2,038	2,434	1,151	194	876	34	107	180	5.6	19.4	(NA)
Ghana	1,128	1,296	1,690	2,207	703	187	1,232	101	106	173	8.3	15.6	(NA)
Greece	4,674	12,452	15,201	17,437	525	12,432	4,295	919	1,732	3,435	11.0	24.4	33.1
Guatemala	549	2,136	2,264	2,345	735	720	890	45	256	292	2.4	21.4	24.9
Guinea	1,032	1,311	1,447	1,616	1,051	18	467	95	66	111	(NA)	(NA)	(NA)
Honduras	997	2,163	2,399	2,681	812	420	1,369	98	163	229	10.1	17.5	23.0
Hungary	6,409	10,160	12,636	15,931	729	13,240	1,003	1,417	3,097	3,228	13.9	29.8	26.7
India [5]	17,662	27,726	32,119	37,325	13,788	6,126	16,975	1,060	1,794	3,296	8.6	13.5	18.9
Indonesia	14,971	26,863	32,851	41,284	15,311	11,585	9,630	1,758	3,991	5,434	7.9	19.8	28.0
Israel	11,500	15,833	16,445	16,767	12,130	4,549	85	1,392	2,107	2,451	14.2	19.3	17.8
Ivory Coast	4,328	5,921	6,778	8,450	2,444	3,547	2,285	874	644	710	24.0	20.1	19.6
Jamaica	1,421	2,939	3,110	3,511	1,774	415	1,162	206	395	437	14.5	31.2	26.6
Jordan	1,276	2,769	3,238	3,518	1,643	1,010	737	133	351	518	7.5	16.1	21.7
Kenya	2,238	2,923	3,672	4,482	1,655	609	2,048	254	407	502	12.3	25.5	28.8
Madagascar	956	2,182	2,673	3,113	1,982	196	857	57	101	147	11.1	30.1	35.5
Malaysia	3,950	15,190	17,108	19,065	2,961	13,723	1,598	376	4,368	2,974	2.5	24.6	14.3
Mauritania	734	1,388	1,669	1,868	1,192	51	549	30	78	86	11.1	19.3	18.2
Mexico	33,987	72,711	75,991	82,771	5,560	66,569	10,380	7,901	10,633	8,972	32.1	35.7	30.1
Morocco	8,436	13,815	16,436	18,468	9,864	4,687	3,688	1,173	1,009	1,270	35.9	31.9	31.0
Nicaragua	1,661	4,484	5,228	6,150	3,981	1,300	835	82	47	34	16.0	13.2	(NA)
Nigeria	4,238	13,133	20,574	25,707	8,631	11,468	2,985	504	3,997	779	1.8	30.7	10.0
Oman	440	1,929	2,483	2,474	248	1,955	147	197	260	612	5.1	4.9	(NA)
Pakistan	8,785	10,774	11,886	13,150	8,258	474	4,236	594	1,066	1,173	19.7	31.3	25.9
Panama	2,271	3,340	3,572	3,722	383	2,226	1,071	466	410	383	6.0	6.5	6.5
Papua New Guinea	510	1,098	1,239	1,471	243	635	576	61	128	176	5.4	12.4	13.0
Paraguay	633	1,537	1,832	2,218	520	833	831	80	155	223	10.3	23.9	21.3
Peru	6,167	10,351	11,278	12,485	4,293	4,528	2,110	1,501	699	448	31.1	17.8	12.5
Philippines	6,527	13,567	20,409	22,321	5,353	11,308	5,084	583	1,233	2,142	7.3	15.6	23.2
Poland	(NA)	31,700	31,901	35,569	21,990	12,294	924	(NA)	1,893	1,922	(NA)	14.3	14.3
Portugal	6,702	12,884	13,661	14,922	831	11,285	1,951	1,041	2,939	4,832	15.2	37.0	37.8
Romania	7,131	5,805	5,653	5,425	1,217	2,112	2,039	1,156	1,756	1,631	9.5	13.5	(NA)
Senegal	958	1,977	2,456	3,068	1,759	257	1,050	179	86	274	21.6	10.6	21.4
Singapore	1,320	1,799	2,138	2,543	192	1,914	121	263	723	503	1.0	2.4	1.4
Somalia	715	1,868	2,075	2,288	1,530	153	591	9	5	9	4.4	4.0	(NA)
South Korea	15,933	28,304	29,355	24,541	5,785	10,748	5,881	2,783	5,052	12,299	12.3	15.3	21.9
Sri Lanka	1,348	2,912	3,496	4,109	2,295	569	1,094	84	231	339	6.3	14.0	19.3
Sudan	3,756	6,519	6,954	7,876	4,841	1,673	1,359	99	112	48	12.0	13.7	6.8
Syria	2,107	2,713	3,122	3,648	2,022	32	931	297	295	365	11.6	12.1	16.5
Tanzania	2,044	3,057	3,642	4,068	2,236	176	1,402	74	61	83	10.9	15.5	18.5
Thailand	4,070	9,937	11,613	14,023	4,150	4,700	4,482	432	1,496	1,947	5.0	14.6	13.6
Trinidad and Tobago	712	1,299	1,585	1,635	313	1,135	71	226	251	384	6.7	9.7	(NA)
Tunisia	3,224	4,487	5,222	6,189	2,867	1,550	1,552	428	672	913	11.9	24.5	27.2
Turkey	14,961	19,533	24,285	30,490	9,183	11,011	8,989	1,044	3,524	4,576	28.4	31.0	31.7
Uruguay	1,127	2,695	2,886	3,048	99	2,382	551	198	404	404	12.4	30.0	24.4
Venezuela	10,774	17,098	25,200	25,245	988	23,638	140	2,950	2,373	2,869	13.3	14.0	22.4
Yemen (Aden)	530	1,326	1,472	1,669	1,202	(NA)	467	27	110	71	15.1	65.7	38.3
Yemen (Sanaa)	903	1,869	2,052	2,155	1,520	76	558	21	74	145	6.1	37.1	50.8
Yugoslavia [6]	4,580	9,349	11,981	14,446	3,284	7,605	3,557	616	1,354	2,118	4.5	9.6	13.3
Zaire	4,294	4,855	5,827	7,334	4,856	945	1,355	365	338	247	15.2	16.9	12.8
Zambia	2,187	3,203	3,782	4,354	2,483	357	1,261	289	95	129	17.8	10.9	13.5
Zimbabwe	695	1,557	1,760	2,044	674	806	521	44	307	383	2.5	23.6	23.2

NA Not available. [1] Includes other types of creditors, not shown separately. [2] Includes other private financial institutions. [3] Debt service payments as percent of exports. [4] The increase in debt outstanding from 1980 to 1985 includes the refinancing of short-term private debt by public debt, which matured in 1986–87. [5] Fiscal year basis. [6] The bulk of the debt of Yugoslavian enterprises is reported as nonguaranteed.

Source: The World Bank, Washington, DC, *World Debt Tables*, periodic.

No. 1484. Net Flow of Financial Resources to Developing Countries, by Origin and Type of Resource: 1970 to 1988

[**In billions of U.S. dollars.** Net flow covers loans, grants, and grant-like flows minus amortization on loans. Military flows are excluded. Developing countries cover countries designated by Development Assistance Committee as developing. Official development assistance covers all flows to developing countries and multilateral institutions provided by official agencies, including State and local governments, or by their executive agencies, which are administered with the promotion of economic development and welfare of developing countries as their main objective and whose financial terms are intended to be concessional in character with grant element of at least 25 percent. Other official flows cover export credits and portfolio investment from the official sector]

ORIGIN AND TYPE OF RESOURCE	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988, est.
Development Assistance Committee countries [1]	15.9	75.4	91.4	84.2	69.8	79.1	45.2	75.7	66.0	(NA)
Official development assistance	6.9	27.3	25.5	27.7	27.6	28.7	29.4	36.7	41.5	48.1
Bilateral grants [2]	3.3	14.1	13.2	13.4	14.2	15.5	17.8	21.1	23.4	26.1
Bilateral loans	2.4	4.0	5.0	5.0	4.4	4.2	4.1	5.2	6.6	7.1
Multilateral contributions [3]	1.3	9.2	7.3	9.3	9.0	9.0	7.5	10.4	11.6	15.0
Other official flows	1.1	5.3	6.6	7.4	4.9	6.2	3.4	2.1	2.0	(NA)
Private flows at market terms	7.0	40.4	57.2	46.6	35.0	41.6	9.4	33.6	18.9	(NA)
Direct investment	3.7	10.1	15.4	10.4	7.8	10.9	6.5	11.1	21.1	(NA)
Private export credits	2.2	11.5	10.5	7.3	5.3	3.5	.8	−1.6	−2.4	(NA)
Portfolio investment	1.2	18.7	31.3	28.8	22.2	27.2	2.1	24.1	.3	(NA)
Private voluntary agencies	.9	2.4	2.0	2.3	2.3	2.6	2.9	3.3	3.5	3.6
Organization of Petroleum Exporting Countries [4]	.6	10.8	10.8	7.7	5.9	3.7	4.1	(NA)	(NA)	(NA)
Official development assistance	.4	9.7	8.3	5.8	5.0	4.6	3.6	4.7	3.3	2.4
Other official flows	.2	1.1	2.5	1.9	.9	−.9	.5	(NA)	(NA)	(NA)
Centrally-planned economies: [5]										
Official development assistance	1.0	2.6	3.1	3.1	3.5	3.4	3.6	4.6	5.0	5.0
Total net flow to developing countries, by DAC country [1]	15.9	75.4	91.4	84.2	69.8	79.1	45.2	75.7	66.0	(NA)
United States	6.4	13.9	26.4	30.2	23.0	28.6	1.8	18.2	13.2	17.5
Official development assistance	3.2	7.1	5.8	8.2	8.1	8.7	9.4	9.6	8.9	10.1
Bilateral grants [2]	1.4	3.0	3.2	3.8	4.5	5.6	7.3	7.0	6.7	6.5
Bilateral loans	1.3	1.4	1.2	1.1	1.0	.8	.9	.6	.3	.3
Multilateral contributions [3]	.5	2.8	1.5	3.3	2.5	2.3	1.2	2.0	1.9	3.4
Other official flows	.1	1.1	.9	1.6	(Z)	1.0	.2	−.6	−1.8	1.9
Private flows at market terms	2.5	4.3	18.7	19.1	13.6	17.4	−9.3	7.5	4.4	3.2
Direct investment	1.9	3.4	6.5	5.5	2.3	4.4	.9	3.1	8.0	4.2
Private export credits and portfolio investment	.6	.9	12.2	13.6	11.2	13.0	−10.2	4.4	−3.6	1.0
Private voluntary agencies	.6	1.3	1.0	1.3	1.3	1.5	1.5	1.7	1.6	2.3
Australia	.4	.9	.8	1.2	1.0	1.5	1.2	1.0	.9	(NA)
Austria	.1	.3	.3	.1	.1	.1	.2	.1	.2	(NA)
Belgium	.3	2.9	2.8	.7	.8	3.5	1.3	.8	.3	(NA)
Canada	.6	3.2	5.8	1.9	2.6	2.8	1.7	1.6	2.5	(NA)
Denmark	.1	.8	.9	.8	1.1	.6	.4	.5	.8	(NA)
Finland	(Z)	.2	.2	.2	.2	.3	.3	.4	.6	(NA)
France	1.8	11.6	11.5	13.6	9.3	8.9	8.7	9.2	8.7	(NA)
Ireland	(NA)	(Z)	(Z)	(Z)	(Z)	.1	.1	.1	.1	(NA)
Italy	.7	4.0	3.7	5.0	3.1	2.3	2.2	2.6	2.0	5.1
Japan	1.8	6.8	12.2	8.9	7.9	11.7	11.6	21.5	20.5	(NA)
Netherlands	.4	2.4	2.2	2.5	2.2	2.0	2.6	2.8	3.2	2.7
New Zealand	(Z)	.1	.1	.1	.1	.1	.1	.1	.1	(NA)
Norway	.1	.9	.7	.8	.7	.6	.6	.7	.9	(NA)
Sweden	.2	1.9	1.4	1.8	1.3	1.3	1.4	1.7	1.8	(NA)
Switzerland	.1	2.7	2.3	3.2	3.3	3.4	2.5	1.4	−1.4	(NA)
United Kingdom	1.3	12.2	11.9	6.3	6.1	4.8	2.5	6.7	3.4	2.9
West Germany	1.5	10.6	8.1	7.0	7.0	6.5	5.8	7.9	8.8	(NA)

NA Not available. Z Less than $50 million. [1] Includes flows to OPEC countries (see footnote 4). Comprises as donors Australia, Austria, Belgium, Canada, Denmark, Finland, France, Ireland, Italy, Japan, Netherlands, New Zealand, Norway, Sweden, Switzerland, United Kingdom, United States, and West Germany. [2] Includes "grant-like" flows (i.e., loans repayable in recipients' currencies). [3] Includes capital subscriptions to multilateral organizations in the form of demand instruments as of date of issue. [4] Algeria, Ecuador, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. [5] Bulgaria, Czechoslovakia, East Germany, Hungary, Poland, Romania, and Soviet Union.

Source: Organization for Economic Cooperation and Development, Paris, France, unpublished data.

No. 1485. Per Capita Public and Private Aid to Developing Countries: 1980 to 1987

[**In dollars.** See headnote, table 1484. Private aid figures exclude government subsidies to voluntary agencies. Countries are ranked by per capita gross national product in 1986]

COUNTRY	OFFICIAL DEVELOPMENT ASSISTANCE			PRIVATE VOLUNTARY AID		
	1980	1985	1987	1980	1985	1987
Switzerland	40	46	83	10	8	14
United States	31	39	37	6	6	7
Japan	29	31	61	(Z)	(Z)	(Z)
Norway	119	138	213	8	12	16
Sweden	116	101	164	7	9	13
Denmark	92	86	168	3	3	5
West Germany	58	48	72	7	7	11
Finland	23	43	88	3	3	8
Canada	45	64	73	4	7	8
France	77	72	117	1	1	2
Austria	24	33	27	3	2	3
Netherlands	115	78	143	6	7	12
Belgium	60	45	70	5	2	2
United Kingdom	33	27	33	2	3	4
Australia	45	47	39	3	3	2
Italy	12	19	46	(Z)	(Z)	(Z)
New Zealand	23	16	26	2	3	2
Ireland	9	11	14	-	6	7

- Represents zero. Z Less than 50 cents.

Source: Organization for Economic Cooperation and Development, Paris, France, unpublished data.

No. 1486. Military Expenditures in Current and Constant (1987) Dollars: 1980 to 1987

[**In millions of dollars, except as indicated.** See also table 542. For most countries, data for expenditures and for GNP were based on local currencies which were deflated to constant 1987 local currency values before conversion to U.S. dollar equivalents. In general, the rates used for conversion are the 1987 average par/market exchange rates as supplied by the International Bank for Reconstruction and Development]

Country	Current dollars				Constant (1987) dollars				Per capita (dollars)		Percent of GNP [1]	
	1980	1985	1986	1987	1980	1985	1986	1987	1980	1987	1980	1987
United States	**144,000**	**265,800**	**280,900**	**296,200**	**197,600**	**281,900**	**290,100**	**296,200**	**868**	**1,215**	**5.3**	**6.5**
Algeria [2]	1,039	1,513	1,700	1,930	1,427	1,604	1,756	1,930	76	82	2.9	3.0
Argentina	2,141	[2] 2,203	[2] 1,503	[2] 1,100	2,939	[2] 2,336	[2] 1,552	[2] 1,100	104	35	3.6	1.4
Australia	2,637	4,510	4,781	4,986	3,619	4,783	4,938	4,986	248	310	2.2	2.5
Austria	880	[2] 1,431	[2] 1,516	[2] 1,447	1,207	[2] 1,518	[2] 1,565	[2] 1,447	160	191	1.1	1.2
Belgium	3,196	3,882	4,056	4,163	4,388	4,117	4,188	4,163	446	422	3.4	3.0
Brazil	1,253	2,446	[2] 3,860	[2] 2,200	1,720	2,595	[2] 3,986	[2] 2,200	14	15	.7	.8
Bulgaria [2]	4,268	6,082	6,372	6,656	5,859	6,450	6,581	6,656	662	743	9.9	10.3
Canada	4,433	7,918	8,396	8,835	6,085	8,398	8,671	8,835	253	342	1.8	2.2
Chile	443	611	567	[2] 683	608	648	586	[2] 683	55	55	3.6	4.0
China:												
Mainland [2]	16,390	19,900	20,000	20,660	22,500	21,110	20,660	20,660	23	19	9.2	4.4
Taiwan	2,829	[2] 5,780	[2] 6,170	[2] 4,701	3,884	[2] 6,130	[2] 6,372	[2] 4,701	218	238	6.6	4.6
Cuba [2]	1,140	1,600	(NA)	(NA)	1,565	1,697	(NA)	(NA)	162	(NA)	6.5	(NA)
Czechoslovakia [2]	6,019	9,104	9,664	10,320	8,262	9,655	9,981	10,320	542	662	6.0	6.8
Denmark	1,568	2,032	1,986	2,141	2,153	2,155	2,052	2,141	420	418	2.5	2.2
East Germany [2]	8,268	12,710	13,470	14,440	11,350	13,480	13,910	14,440	678	870	6.6	7.3
Egypt [2]	3,174	6,641	6,459	6,527	4,357	7,043	6,671	6,527	103	126	9.2	9.2
El Salvador	97	(NA)	(NA)	178	133	(NA)	(NA)	178	28	34	2.7	3.9
Finland	826	1,211	1,324	(NA)	1,134	1,284	1,367	(NA)	237	(NA)	1.6	(NA)
France	23,000	31,500	32,610	34,830	31,570	33,410	33,680	34,830	586	626	4.0	4.0
Greece	1,798	3,083	2,801	2,902	2,468	3,270	2,893	2,902	256	291	5.5	6.2
Hungary [2]	3,199	4,213	4,380	4,525	4,391	4,468	4,524	4,525	410	427	5.3	5.2
India	4,170	7,732	8,441	9,632	5,724	8,200	8,717	9,632	8	12	3.2	3.9
Indonesia	1,109	1,406	1,547	1,367	1,523	1,491	1,597	1,367	10	8	3.1	2.1
Iran [2]	12,540	21,120	(NA)	(NA)	17,210	22,400	(NA)	(NA)	439	(NA)	6.6	(NA)
Iraq [2]	17,460	16,710	(NA)	(NA)	23,960	17,720	(NA)	(NA)	1,815	(NA)	22.5	(NA)
Israel	6,008	6,366	5,947	5,536	8,246	6,751	6,142	5,536	2,206	1,311	29.2	16.6
Italy	10,390	15,460	15,870	18,350	14,260	16,400	16,390	18,350	253	320	2.1	2.5
Japan	12,420	20,770	22,340	24,320	17,050	22,030	23,080	24,320	146	199	.9	1.0
Kuwait	939	1,606	1,369	1,330	1,289	1,703	1,414	1,330	941	714	2.9	5.2
Malaysia	706	[2] 969	[2] 1,145	937	970	[2] 1,027	[2] 1,183	937	70	58	4.4	3.2
Mexico	373	860	795	[2] 726	513	912	821	[2] 726	7	9	.4	.5
Morocco	[2] 713	(NA)	[2] 1,048	[2] 1,114	[2] 979	(NA)	[2] 1,083	[2] 1,114	48	46	7.6	7.1
Netherlands	4,495	5,987	6,201	6,543	6,170	6,350	6,404	6,543	436	447	3.1	3.1
Nicaragua	[2] 1,447	[2] 5,225	(NA)	(NA)	[2] 1,986	[2] 5,541	(NA)	(NA)	711	(NA)	5.8	(NA)
Nigeria	455	298	238	180	625	316	246	180	7	2	2.4	.8
North Korea [2]	3,500	5,400	5,600	5,800	4,804	5,727	5,784	5,800	269	270	22.6	22.4
Norway	1,403	2,251	2,438	2,775	1,926	2,387	2,518	2,775	471	664	3.0	3.4
Oman	1,057	1,935	1,728	1,516	1,451	2,052	1,785	1,516	1,475	1,235	22.1	23.3
Pakistan	836	1,856	2,024	2,226	1,148	1,968	2,091	2,226	13	21	5.4	6.5
Peru	1,354	[2] 2,166	[2] 2,565	[2] 2,198	1,858	[2] 2,297	[2] 2,649	[2] 2,198	107	106	5.0	4.9
Philippines	477	386	390	458	655	409	402	458	13	7	1.9	1.3
Poland [2]	11,320	17,090	17,760	17,950	15,540	18,130	18,340	17,950	437	476	6.2	6.9
Portugal	749	913	1,061	1,131	1,028	969	1,096	1,131	105	110	3.6	3.2
Qatar	604	(NA)	(NA)	(NA)	830	(NA)	(NA)	(NA)	3,597	(NA)	9.3	(NA)
Romania [2]	4,729	6,948	7,223	7,609	6,491	7,369	7,460	7,609	292	332	5.3	5.2
Saudi Arabia	14,990	21,340	17,290	10,490	20,580	22,630	17,860	10,490	2,028	710	14.3	12.8
Singapore	491	1,036	1,008	(NA)	673	1,098	1,041	(NA)	279	(NA)	5.2	(NA)
South Africa	2,792	2,704	2,878	[2] 3,400	3,832	2,867	2,973	[2] 3,400	132	99	5.2	4.4
South Korea	2,916	4,797	5,320	5,626	4,002	5,087	5,495	5,626	105	133	6.1	4.8
Soviet Union [2]	198,200	277,200	287,600	303,000	272,100	294,000	297,000	303,000	1,021	1,067	12.9	12.3
Spain	4,151	6,049	5,923	6,906	5,698	6,416	6,117	6,906	152	177	2.3	2.4
Sweden	3,110	4,187	4,232	4,434	4,269	4,441	4,371	4,434	514	529	3.1	2.9
Switzerland	2,768	[2] 3,914	[2] 3,946	[2] 3,726	3,800	[2] 4,151	[2] 4,075	[2] 3,726	595	567	2.4	2.1
Syria	2,706	[2] 5,001	[2] 4,800	[2] 3,364	3,714	[2] 5,304	[2] 4,958	[2] 3,364	427	302	17.1	11.9
Thailand	933	1,647	1,646	1,657	1,281	1,747	1,700	1,657	27	31	4.0	3.7
Turkey	1,568	2,448	2,891	2,890	2,153	2,597	2,985	2,890	48	55	4.8	4.4
United Arab Emirates	1,724	[2] 1,901	[2] 1,580	(NA)	2,367	[2] 2,017	[2] 1,632	(NA)	2,366	(NA)	5.7	(NA)
United Kingdom	20,580	30,560	30,780	31,580	28,240	32,410	31,790	31,580	502	556	5.0	4.7
Venezuela	365	433	580	[2] 1,379	501	460	599	[2] 1,379	33	75	1.3	3.6
West Germany	24,170	32,500	33,180	34,130	33,170	34,470	34,260	34,130	539	560	3.3	3.0
Yugoslavia	1,810	2,043	2,347	1,317	2,485	2,167	2,424	1,317	111	56	4.3	2.2

NA Not available. [1] Military expenditure as percent of gross national product. For additional information on comparisons between communist and noncommunist countries, see footnote 4, table 542. [2] Estimated.

Source: U.S. Arms Control and Disarmament Agency, *World Military Expenditures and Arms Transfers*, annual.

No. 1487. Armed Forces Personnel—Number and Rate, by Country: 1980 to 1987

[**Personnel data as of July.** Armed Forces refer to active-duty military personnel, including paramilitary forces where those forces resemble regular units in their organization, equipment, training, or mission. Reserve forces are not included]

Country	Armed forces personnel (1,000)						Armed forces per 1,000 population					
	1980	1983	1984	1985	1986	1987	1980	1983	1984	1985	1986	1987
United States	**2,101**	**2,201**	**2,222**	**2,244**	**2,269**	**2,279**	**9.2**	**9.4**	**9.4**	**9.4**	**9.4**	**9.3**
Algeria	101	130	170	170	180	170	5.4	6.3	8.0	7.7	7.9	7.2
Argentina	155	175	174	129	104	118	5.5	5.9	5.8	4.3	3.4	3.8
Australia	71	73	71	70	71	70	4.9	4.8	4.6	4.5	4.5	4.4
Austria	40	50	40	40	39	39	5.3	6.6	5.3	5.3	5.2	5.2
Belgium	108	109	107	107	107	109	10.9	11.1	10.9	10.9	10.8	11.0
Brazil	450	460	459	496	527	541	3.7	3.5	3.4	3.5	3.7	3.7
Bulgaria	188	189	189	189	190	191	21.2	21.2	21.2	21.2	21.2	21.3
Canada	82	81	82	83	85	86	3.4	3.3	3.3	3.3	3.3	3.3
Chile	116	126	123	124	127	127	10.5	10.8	10.4	10.3	10.3	10.2
China:												
Mainland	4,650	4,100	4,100	4,100	4,030	3,530	4.7	4.0	4.0	3.9	3.8	3.3
Taiwan	465	454	470	440	390	365	26.1	24.2	24.7	22.8	20.0	18.5
Cuba	220	250	297	297	297	297	22.8	25.3	29.8	29.5	29.2	28.9
Czechoslovakia	190	202	206	210	214	215	12.5	13.1	13.3	13.5	13.8	13.8
Denmark	33	30	31	29	28	28	6.4	5.9	6.1	5.7	5.5	5.5
East Germany	228	236	240	242	242	241	13.6	14.1	14.4	14.5	14.6	14.5
Egypt	447	447	466	466	400	450	10.6	9.6	9.8	9.5	7.9	8.7
El Salvador	16	32	45	48	48	49	3.4	6.7	9.2	9.6	9.3	9.3
Finland	36	40	40	(NA)	37	37	7.5	8.2	8.2	(NA)	7.4	7.4
France	575	578	571	563	558	559	10.7	10.6	10.4	10.2	10.1	10.1
Greece	186	177	197	201	202	203	19.3	18.0	19.9	20.2	20.3	20.3
Honduras	14	19	20	21	22	22	3.7	4.5	4.6	4.7	4.6	4.5
Hungary	120	118	118	117	116	116	11.2	11.0	11.0	11.0	10.9	10.9
India	1,104	1,250	1,380	1,515	1,492	1,502	1.6	1.7	1.8	2.0	1.9	1.9
Indonesia	250	280	281	281	278	281	1.6	1.7	1.7	1.6	1.6	1.6
Iran	305	240	335	345	345	350	7.8	5.5	7.4	7.3	7.1	7.0
Iraq	430	434	788	788	800	900	32.6	29.5	51.7	49.9	48.8	53.0
Israel	196	205	205	195	180	180	52.4	52.2	51.2	47.8	43.4	42.6
Italy	500	498	508	531	529	531	8.9	8.8	8.9	9.3	9.2	9.3
Japan	242	241	241	241	245	244	2.1	2.0	2.0	2.0	2.0	2.0
Kuwait	12	13	15	16	18	20	8.8	8.3	9.2	9.3	10.1	10.7
Malaysia	83	105	105	106	106	106	6.0	7.1	7.0	6.9	6.7	6.6
Mexico	120	130	129	140	141	141	1.7	1.7	1.7	1.8	1.8	1.7
Morocco	117	135	149	165	185	200	5.7	6.1	6.6	7.1	7.8	8.2
Netherlands	107	104	103	103	106	106	7.6	7.2	7.1	7.1	7.3	7.2
Nicaragua	24	46	67	74	75	80	8.6	15.2	21.6	23.4	23.1	24.1
Nigeria	150	144	144	134	138	138	1.7	1.5	1.4	1.3	1.3	1.3
North Korea	700	784	784	784	838	838	39.1	40.9	39.9	38.5	40.1	39.1
Norway	40	41	39	36	38	38	9.7	9.9	9.4	8.7	9.1	9.1
Oman	15	20	25	25	26	27	15.2	18.5	22.4	21.7	21.9	22.0
Pakistan	467	584	646	644	573	573	5.5	6.2	6.7	6.5	5.6	5.5
Peru	151	167	135	128	127	127	8.7	8.9	7.0	6.5	6.3	6.1
Philippines	155	157	157	157	161	161	3.0	2.8	2.8	2.7	2.7	2.6
Poland	408	426	434	439	443	441	11.5	11.7	11.7	11.8	11.8	11.7
Portugal	88	93	100	102	101	103	9.0	9.3	9.9	10.0	9.9	10.0
Qatar	6	6	6	7	9	11	26.0	22.5	21.5	24.0	29.7	34.8
Romania	211	232	236	237	238	248	9.5	10.3	10.4	10.4	10.4	10.8
Saudi Arabia	79	80	80	80	80	80	7.8	6.6	6.3	6.0	5.7	5.4
Singapore	50	60	59	59	56	55	20.7	24.0	23.3	23.1	21.5	21.0
South Africa	70	77	97	95	90	102	2.4	2.5	3.0	2.9	2.7	3.0
South Korea	600	602	602	600	604	604	15.7	15.1	14.9	14.6	14.5	14.3
Soviet Union	4,100	4,300	4,300	4,300	4,400	4,400	15.4	15.7	15.6	15.4	15.6	15.5
Spain	356	355	342	314	314	314	9.5	9.3	8.9	8.1	8.1	8.1
Sweden	70	68	69	(NA)	66	66	8.4	8.2	8.3	(NA)	7.8	7.8
Switzerland	23	28	25	(NA)	21	20	3.6	4.3	3.8	(NA)	3.2	3.0
Syria	250	400	402	402	400	400	28.8	41.5	40.2	38.8	37.2	35.9
Thailand	234	250	250	270	275	275	5.0	5.0	4.9	5.2	5.2	5.1
Turkey	717	824	815	814	860	879	15.9	17.0	16.5	16.1	16.6	16.6
United Arab Emirates	44	44	44	44	44	44	44.0	33.4	30.6	28.0	25.7	23.8
United Kingdom	330	333	336	334	331	328	5.9	5.9	5.9	5.9	5.8	5.8
Venezuela	55	56	64	71	66	69	3.7	3.4	3.8	4.1	3.7	3.8
Vietnam	900	1,000	1,000	1,000	1,300	1,300	16.8	17.4	16.9	16.5	21.0	20.4
West Germany	490	496	487	495	495	495	8.0	8.1	8.0	8.1	8.1	8.1
Yugoslavia	260	259	259	258	234	234	11.6	11.4	11.3	11.2	10.0	10.0

NA Not available.

Source: U.S. Arms Control and Disarmament Agency, *World Military Expenditures and Arms Transfers*, annual.