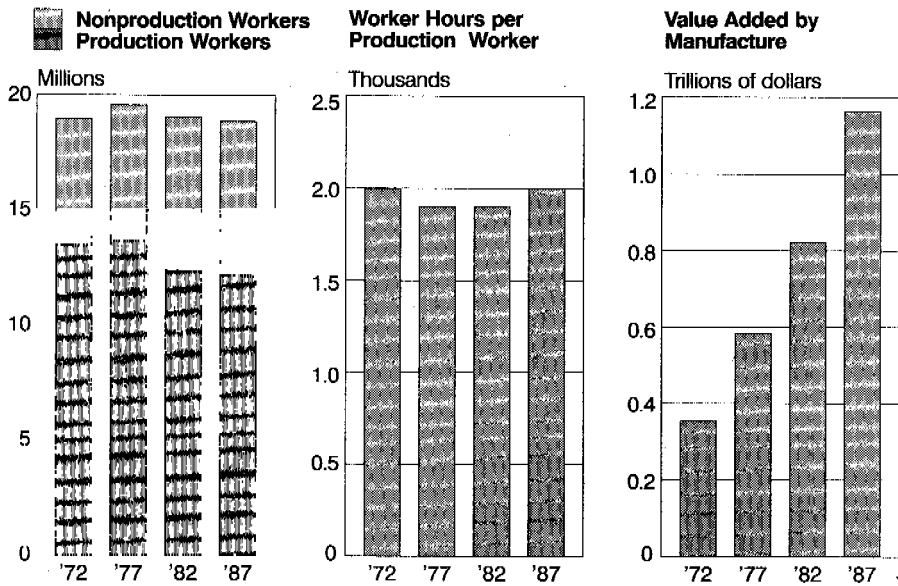
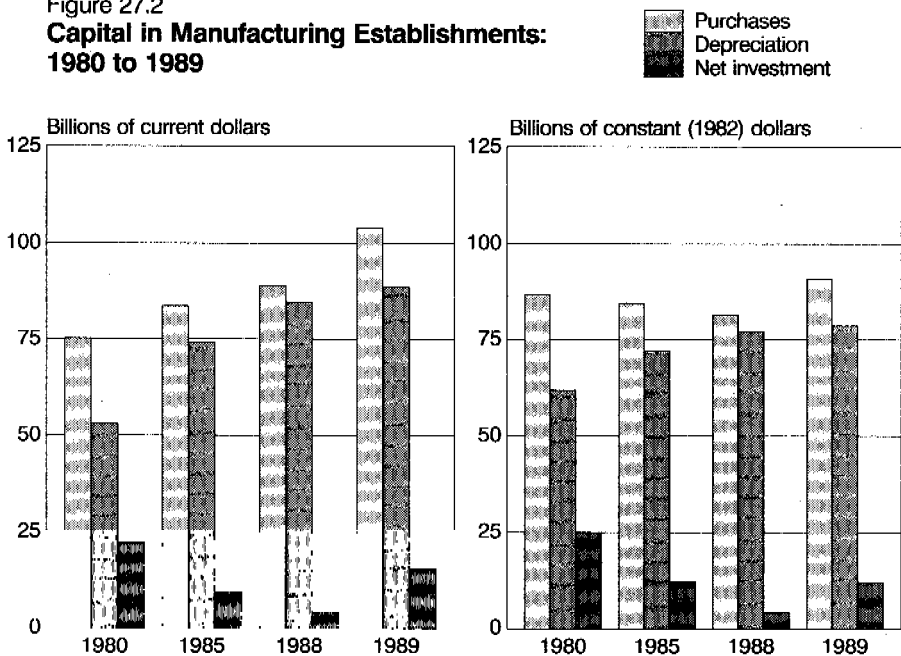


Figure 27.1
Summary of Manufactures: 1972 to 1987



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1302.

Figure 27.2
Capital in Manufacturing Establishments: 1980 to 1989



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1307.



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 5 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, NY 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 Securities and Exchange Commission. The BEA issues data on capital in manufacturing industries and capacity utilization rates in manufacturing. See also section 17, Business Enterprise, 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 (ASM)*, conducted for the first time in 1949, collects data for the years between censuses for the more general measures of manufacturing activity covered in detail by the censuses. The annual survey data are estimates derived from a scientifically selected sample of establishments. The 1988 annual survey is based on a sample of about 56,000 establishments of an approximate total of 220,000. These establishments represent all manufacturing establishments of multiunit companies and all single-establishment manufacturing companies mailed schedules in the 1982 Census of Manufactures. The 1984 through 1988 ASM sample differs slightly from the previous sample. For the current panel, all establishments of companies with 1982 shipments in manufacturing in excess of \$500 million were included in the survey with certainty. For the remaining portion of the mail survey, the establishment was defined as the sampling unit. For this portion, all establishments with 250 employees or more and establishments with a very large value of shipments also were included. Therefore, of the 56,000 establishments included in the ASM panel, approximately 31,000 are selected with certainty. These certainty establishments account for approximately 80 percent of total value of shipments in the 1982 census. Smaller establishments in the remaining portion of the mail survey were selected by sample.

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. 1301. Gross National Product in Manufacturing: 1980 to 1988

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

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988
CURRENT DOLLARS									
Manufacturing	581.0	643.1	634.6	683.2	771.9	789.5	832.4	872.1	948.6
Durable goods	351.8	385.8	362.5	385.6	451.1	458.8	478.1	495.4	530.3
Lumber and wood products	18.7	17.1	16.0	20.5	22.8	22.2	24.7	27.8	29.6
Stone, clay, and glass products	19.0	19.0	18.2	20.2	22.9	24.8	26.9	28.7	28.3
Primary metal industries	44.3	49.8	35.3	30.3	36.3	34.8	39.2	40.1	46.8
Fabricated metal products	46.0	49.6	46.3	47.6	55.1	57.8	57.9	59.5	64.0
Machinery, except electrical	76.9	86.2	80.0	75.3	85.4	82.7	82.7	84.8	93.1
Electric and electronic equipment	55.0	60.7	61.8	67.7	79.9	82.2	82.7	84.9	91.1
Motor vehicles and equipment	26.7	31.5	29.5	39.0	49.6	53.7	53.2	53.3	55.1
Nondurable goods	229.2	257.3	272.1	297.6	320.8	330.8	354.3	376.6	418.3
Food and kindred products	52.2	57.9	61.4	64.7	66.6	69.8	70.9	76.7	83.3
Textile mill products	15.0	15.9	14.8	16.9	17.4	17.1	19.1	20.0	20.3
Apparel and other textile products	17.1	18.7	18.9	20.3	20.7	20.6	21.9	23.4	24.6
Paper and allied products	23.1	25.1	26.7	27.8	31.9	33.1	35.5	40.1	45.8
Printing and publishing	31.6	35.2	38.4	42.4	47.6	52.5	56.9	59.9	64.4
Chemicals and allied products	45.5	53.3	55.3	59.6	62.0	63.8	70.8	77.0	92.1
Petroleum and coal products	16.8	19.8	24.4	28.3	33.7	32.2	35.2	33.3	39.5
CONSTANT (1982) DOLLARS									
Manufacturing	673.9	678.6	634.6	674.2	752.4	779.2	803.2	849.7	927.5
Durable goods	408.5	408.6	362.5	383.8	448.6	471.5	482.7	517.4	583.2
Lumber and wood products	21.3	16.5	16.0	18.8	20.9	19.8	21.3	24.2	25.7
Stone, clay, and glass products	21.3	20.2	18.2	19.7	21.3	22.2	22.9	24.9	25.2
Primary metal industries	48.2	50.6	35.3	28.9	33.4	32.7	32.2	34.6	37.9
Fabricated metal products	53.7	53.0	46.3	48.8	54.8	56.2	54.8	58.4	63.2
Machinery, except electrical	86.1	89.6	80.0	84.8	105.7	124.2	129.4	140.7	170.5
Electric and electronic equipment	63.3	64.9	61.8	64.6	73.5	74.3	74.1	78.3	88.1
Motor vehicles and equipment	35.2	34.8	29.5	37.8	47.3	50.3	46.5	46.4	51.7
Nondurable goods	265.5	269.9	272.1	290.4	303.8	307.7	320.5	332.2	344.3
Food and kindred products	59.8	58.9	61.4	62.7	62.1	64.8	65.6	66.5	67.8
Textile mill products	16.4	15.8	14.8	16.2	16.0	15.6	17.0	17.3	16.8
Apparel and other textile products	21.1	20.3	18.9	20.1	20.4	20.1	21.0	22.7	23.2
Paper and allied products	25.8	25.5	26.7	29.0	29.5	30.2	31.6	33.8	34.9
Printing and publishing	37.0	38.6	38.4	39.6	40.8	42.5	43.1	43.6	45.5
Chemical and allied products	50.0	54.0	55.3	59.7	59.1	59.1	64.6	68.2	74.2
Petroleum and coal products	22.9	21.8	24.4	29.8	39.5	39.4	41.1	42.6	44.6

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.

No. 1302. Manufactures—Summary: 1963 to 1988

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

ITEM	Unit	1963	1967	1972	1977	1982	1985 ¹	1986 ¹	1987	1988
ALL ESTABLISHMENTS										
Number of establishments ²	1,000	312	311	321	360	358	(NA)	(NA)	369	(NA)
With 20 or more employees	1,000	102	110	114	119	123	(NA)	(NA)	126	(NA)
Employee size-class:										
Establishments ³	1,000	305	306	313	351	348	(NA)	(NA)	359	(NA)
Under 20	1,000	207	199	203	237	230	(NA)	(NA)	238	(NA)
20-99	1,000	70	74	76	78	84	(NA)	(NA)	86	(NA)
100-249	1,000	18	20	21	22	21	(NA)	(NA)	22	(NA)
250-999	1,000	10	11	11	12	11	(NA)	(NA)	11	(NA)
1,000 and over	1,000	3	3	3	2	2	(NA)	(NA)	2	(NA)
Form of organization:										
Corporate	1,000	176.2	153.9	233.2	284.2	283.2	(NA)	(NA)	287.4	(NA)
Noncorporate, total ⁴	1,000	130.4	33.2	87.5	75.7	74.0	(NA)	(NA)	81.5	(NA)
Individual proprietorship	1,000	99.2	24.9	42.5	52.3	45.6	(NA)	(NA)	35.4	(NA)
Partnership	1,000	27.7	6.7	17.7	18.3	15.0	(NA)	(NA)	13.2	(NA)
Value added by Region:										
Northeast	Percent	29.8	29.1	26.3	23.7	23.7	23.1	22.7	23.7	(NA)
North Central	Percent	35.4	35.0	34.9	34.4	29.8	30.9	31.0	29.8	(NA)
South	Percent	21.5	22.7	25.5	27.4	29.5	29.3	29.6	29.5	(NA)
West	Percent	13.3	13.0	13.4	14.5	17.0	16.7	16.6	17.0	(NA)
All employees, ⁵ annual average ⁶	Million	17.0	19.3	19.0	19.6	19.1	18.8	18.4	18.9	19.1
Payroll, all employees	Bil. dol.	100	132	174	264	380	443	451	476	503
Payroll per employee	\$1,000	5.9	6.8	9.2	13.5	19.9	23.6	24.5	25.1	26.3
Production workers, annual average	Million	12.2	14.0	13.5	13.7	12.4	12.2	11.8	12.2	12.4
Percent of all employees	Percent	71.8	72.2	71.1	69.9	64.9	64.9	64.1	64.6	64.9
Hours, production workers	Billion	24.5	27.8	26.7	26.7	23.5	23.7	23.2	24.3	24.8
Hours per worker	1,000	2.0	2.0	2.0	1.9	1.9	1.9	2.0	2.0	2.0
Wages, production workers	Bil. dol.	62	81	106	157	205	236	237	251	264
Percent of payroll for all employees	Percent	62.0	61.6	60.6	59.5	53.9	53.3	53.3	52.9	52.5
Wages per worker	\$1,000	5.1	5.8	7.8	11.5	16.5	18.8	19.4	20.5	21.3
Wages per worker hour	Dollar	2.53	2.92	3.95	5.89	8.70	9.96	10.22	10.35	10.67
Value added by manufacture ⁷	Bil. dol.	192	262	354	585	824	1,000	1,035	1,166	1,262
Per production worker	\$1,000	15.7	18.8	26.2	42.7	66.5	82.2	88.0	95.2	101.8
Per production worker hour	Dollar	7.83	9.41	13.26	21.93	35.01	42.14	44.67	47.97	50.98
Per dollar of workers' wages	Dollar	2.90	3.22	3.36	3.72	4.02	4.24	4.38	4.64	4.78
Cost of materials	Bil. dol.	230	299	407	782	1,130	1,276	1,217	1,320	1,438
Value of shipments ⁸	Bil. dol.	421	557	757	1,359	1,960	2,280	2,260	2,476	2,583
Per production worker	\$1,000	34.4	39.9	55.9	99.2	158.1	187.3	192.1	202.2	216.3
End-of-year inventories	Bil. dol.	60	84	108	188	307	322	311	333	362
Capital expenditures, new ⁹	Bil. dol.	11.4	21.5	24.1	47.5	75.0	83.1	76.4	78.6	80.6
Ratios:										
Value added to shipments	Ratio	45.6	47.0	46.7	42.9	42.0	43.8	45.8	47.1	47.1
Inventories to shipments	Ratio	14.2	15.0	14.2	13.8	15.7	14.1	13.8	13.4	13.5
Payroll to value added	Ratio	52.0	50.3	49.1	45.2	46.1	44.3	43.6	40.8	39.8
Gross book value of depreciable assets	Bil. dol.	158	218	301	439	692	821	(NA)	868	(NA)
Machinery and equipment	Bil. dol.	(NA)	157	218	328	527	632	(NA)	671	(NA)
Assets per employee	\$1,000	9.3	11.3	16.4	22.4	36.2	43.7	(NA)	48.6	(NA)
MULTIUNIT COMPANIES										
Establishments	1,000	45.9	51.7	70.2	81.2	81.7	(NA)	(NA)	80.9	(NA)
Employees	Million	11.0	13.3	14.3	15.0	14.3	(NA)	(NA)	13.8	(NA)
Production workers	Million	8.1	9.8	9.8	10.1	8.8	(NA)	(NA)	8.5	(NA)
Payroll, all employees	Bil. dol.	68.2	93.8	138.8	214.2	307.5	(NA)	(NA)	377.3	(NA)
Wages, production workers	Bil. dol.	44.7	60.9	81.9	124.9	159.1	(NA)	(NA)	191.8	(NA)
Value added by manufacture	Bil. dol.	146.6	206.4	286.1	485.0	678.4	(NA)	(NA)	953.6	(NA)
Capital expenditures, new	Bil. dol.	8.9	18.6	20.0	41.0	65.2	(NA)	(NA)	66.5	(NA)
SINGLE UNIT COMPANIES ¹⁰										
Establishments	1,000	260.8	254.0	250.5	278.7	276.3	(NA)	(NA)	288.0	(NA)
Employees	Million	5.2	5.2	4.8	4.6	4.8	(NA)	(NA)	5.1	(NA)
Payroll, all employees	Bil. dol.	25.1	28.5	35.4	49.8	72.1	(NA)	(NA)	98.3	(NA)
Value added by manufacture	Bil. dol.	45.5	55.5	67.9	100.1	145.7	(NA)	(NA)	212.1	(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. 1303. Manufactures—Summary by Industry Group: 1982, 1987, and 1988

[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				1988			
		All employees		Value of ship- ments (mil. dol.)	Estab- lishments, total	All employees		Value of ship- ments (mil. dol.)	Payroll (mil. dol.)	All employees		Value added by manufac- ture (mil. dol.)	Value of shipments (mil. dol.)
		Number ² (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)		
(X)	All manufacturing establishments	358,061	379,627	1,960,206	368,897	18,950	475,651	2,475,901	502,642	19,148	502,642	1,262,340	2,682,509
20	Food and kindred products	22,130	20,088	280,529	20,624	1,449	30,268	329,725	31,420	1,046	31,420	128,766	351,515
201	Meat products	3,623	4,993	67,602	3,267	341	5,701	77,002	6,050	299	6,050	13,161	81,169
202	Dairy products	2,724	140	2,553	2,366	142	3,217	44,755	3,352	90	3,352	12,657	46,944
203	Preserved fruits and vegetables	(NA)	(NA)	(NA)	1,912	209	3,784	36,343	207	171	3,898	17,906	38,301
204	Grain mill products	2,745	2,197	31,386	2,610	102	2,704	36,737	102	129	2,840	40,945	24,157
205	Bakery products	(NA)	(NA)	(NA)	2,850	217	4,761	23,677	221	129	4,936	16,718	24,157
206	Sugar and confectionery products	1,033	1,661	15,576	1,094	90	1,991	18,887	89	72	2,048	8,819	19,641
207	Fats and oils	724	39	774	595	30	702	15,881	30	20	3,920	19,641	20,517
208	Beverages	2,584	194	4,244	2,214	161	4,521	47,327	159	77	4,552	24,009	49,722
209	Miscellaneous foods and kindred products	3,941	2,300	23,959	3,716	158	2,887	29,116	159	117	2,989	14,323	30,099
21	Tobacco products	163	1,324	16,061	138	45	1,486	20,757	45	33	1,501	17,155	23,832
211	Cigarettes	14	1,094	12,127	11	32	1,486	17,372	32	24	1,239	15,624	20,078
212	Cigars	60	59	254	20	3	36	192	2	2	34	115	202
213	Chewing and smoking tobacco	29	52	665	77	3	77	1,114	3	84	873	1,185	1,185
214	Tobacco stemming and redrying	60	120	3,015	78	7	139	2,079	7	5	145	543	2,367
22	Textile mill products	6,630	9,046	47,515	6,412	672	11,410	62,786	689	572	11,554	26,282	64,768
221	Broadwoven fabric mills, cotton	269	77	965	301	72	1,260	5,508	72	65	1,228	2,839	5,855
222	Broadwoven fabric mills, manmade	523	141	8,191	441	88	1,596	8,049	90	17	1,672	3,754	8,463
223	Broadwoven fabric mills, wool	131	176	763	119	14	236	1,051	17	15	298	686	1,928
224	Narrow fabric mills	281	216	852	277	19	296	1,136	19	170	331	731	1,342
225	Knitting mills	(NA)	(NA)	(NA)	2,130	203	2,988	13,531	197	170	2,986	5,946	13,224
226	Textile finishing, except wool	753	834	4,972	971	56	1,036	7,042	54	44	1,017	2,983	6,803
227	Carpets and rugs	505	603	5,808	477	53	1,039	9,795	55	100	1,078	3,146	10,256
228	Yarn and thread mills	714	98	7,036	610	114	1,850	10,277	111	100	1,803	3,758	10,320
229	Miscellaneous textile goods	(NA)	(NA)	(NA)	1,086	53	1,109	6,398	53	41	1,142	3,030	6,967
23	Apparel and other textile products	24,391	12,129	53,388	22,872	1,081	13,904	64,243	1,066	895	14,278	32,454	65,032
231	Men's and boys' suits and coats	529	75	878	347	55	779	2,863	60	52	878	1,865	3,169
232	Men's and boys' furnishings	2,544	2,937	12,727	2,195	280	3,246	15,441	275	242	3,322	6,230	15,294
233	Women's and misses' outerwear	10,838	4,110	18,225	10,290	349	4,297	19,389	338	278	4,330	9,776	19,751
234	Women's and children's undergarments	755	783	3,323	557	68	843	3,738	67	56	857	2,090	3,884

See footnotes at end of table.

No. 1303. Manufactures—Summary by Industry Group: 1982, 1987, and 1988—Continued

(See headnote, p. 740)

SIC ¹ code	INDUSTRY GROUP	1982				1987				1988			
		Estab- lishments (number)	All employees		Value of ship- ments (mil. dol.)	Estab- lishments, total	All employees		Value of ship- ments (mil. dol.)	Produc- tion workers	Value added by manufac- ture (mil. dol.)	Value of shipments (mil. dol.)	
			Number ² (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)					
235	Apparel, other textile products—Con	419	16	157	522	461	17	204	663	209	378	671	
236	Hats, caps, and millinery.	968	71	671	2,711	834	72	826	3,753	69	1,902	3,673	
237	Girls' and children's outerwear.	504	3	80	419	330	2	48	423	44	129	407	
238	Fur goods.	1,223	50	513	2,118	986	41	518	2,229	33	1,195	2,349	
239	Miscellaneous apparel and accessories.	6,611	174	2,120	10,281	6,822	198	3,143	15,744	197	6,890	15,833	
24	Miscellaneous fabricated textile products.	32,984	576	8,445	42,935	33,982	698	12,707	69,747	704	29,038	72,065	
241	Lumber and wood products ³	11,658	81	1,208	6,274	11,952	86	1,518	10,938	87	4,324	11,664	
242	Logging.	7,403	158	2,306	11,132	6,696	180	3,297	19,220	183	7,929	20,144	
243	Sawmills and planing mills.	6,545	165	2,596	11,683	7,930	240	4,658	22,614	241	9,720	22,859	
244	Millwork, plywood, and structural members.	2,250	36	391	1,635	2,216	37	483	2,069	38	939	2,234	
245	Wood containers.	1,163	60	880	4,955	1,077	65	1,215	6,575	66	2,463	6,627	
25	Wood buildings and mobile homes.	10,003	436	6,084	24,129	11,613	511	9,082	37,462	509	20,854	39,226	
251	Furniture and fixtures ³	5,475	263	3,162	12,776	5,606	284	4,452	18,559	283	9,734	19,131	
252	Household furniture.	413	19	295	1,103	484	22	397	2,088	24	1,037	2,661	
253	Public building and related furniture.	2,148	60	1,025	3,710	2,455	74	1,552	5,537	74	3,218	5,771	
254	Partitions and fixtures.	1,267	36	551	2,390	2,084	50	892	3,740	48	2,168	3,885	
259	Miscellaneous furniture and fixtures.	(NA)	(NA)	(NA)	(NA)	6,342	611	16,860	108,989	619	57,355	122,556	
26	Paper and allied products.	43	17	468	3,110	39	14	535	4,314	14	3,117	5,260	
261	Pulp mills.	289	129	3,431	20,995	281	129	4,597	28,918	130	16,866	33,546	
262	Paper mills.	222	56	1,502	9,531	199	52	1,859	13,730	54	1,964	16,094	
263	Paperboard mills.	2,781	188	3,517	19,192	2,796	194	4,618	25,863	194	10,194	26,193	
265	Paperboard containers and boxes.	3,006	213	3,961	26,701	3,027	226	5,251	36,165	226	18,400	39,463	
27	Miscellaneous converted paper products.	53,406	1,922	22,707	85,797	61,774	1,494	33,440	136,196	1,498	94,109	143,907	
271	Printing and publishing.	8,846	402	6,555	21,276	9,079	434	9,923	31,850	432	24,892	32,927	
272	Newspapers.	3,328	94	1,986	11,478	4,017	110	2,962	17,329	111	12,440	18,612	
273	Periodicals.	2,811	112	2,090	10,132	2,856	114	1,513	15,876	116	11,879	16,034	
274	Books.	2,057	45	706	2,871	2,376	70	1,513	7,810	68	6,248	8,154	
275	Miscellaneous publishing.	(NA)	(NA)	(NA)	(NA)	36,103	553	12,301	44,786	557	25,856	47,480	
276	Commercial printing.	810	50	934	5,059	853	53	1,281	7,397	53	1,349	7,781	
277	Manifold business forms.	154	21	1,894	1,894	162	22	471	2,911	20	2,279	3,082	
278	Greeting cards.	1,467	61	903	2,803	1,545	68	1,265	4,060	69	3,060	4,276	
279	Blankbooks and bookbinding.	(NA)	(NA)	(NA)	(NA)	4,783	69	1,784	4,157	71	3,485	4,479	
279	Printing trade services.	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	

See footnotes at end of table.

No. 1303. Manufactures—Summary by Industry Group: 1982, 1987 and 1988—Continued

(See headline, p. 740)

SIC ¹ code	INDUSTRY GROUP	1982				1987				1988			
		Establish- ments (number)	All employees		Value of ship- ments (mil. dol.)	Establish- ments, total	All employees		Value of ship- ments (mil. dol.)	All employees		Value added by manufac- ture (mil. dol.)	Value of shipments (mil. dol.)
			Number ² (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)		
28	Chemicals and allied products	11,901	873	20,836	170,737	12,109	814	25,016	229,546	930	26,396	137,879	259,699
281	Industrial inorganic chemicals	1,365	108	2,795	17,280	1,405	94	3,099	19,774	96	3,264	12,841	22,110
282	Plastics materials and synthetics	606	141	3,451	28,428	680	123	4,013	40,851	126	4,285	20,755	48,388
283	Drugs	1,281	166	3,966	24,695	1,356	172	5,304	39,263	175	5,957	31,026	43,987
284	Soap, cleaners, and toilet goods	2,379	127	2,581	26,031	2,399	119	3,099	34,748	128	3,362	23,602	37,856
285	Paints and allied products	1,441	54	1,158	9,162	1,431	55	1,492	12,702	57	1,565	6,489	13,532
286	Industrial organic chemicals	969	144	4,005	38,157	961	126	4,541	51,158	124	4,656	26,985	59,972
287	Agricultural chemicals	1,127	51	1,156	14,653	973	40	1,171	14,267	41	1,224	7,605	16,077
289	Miscellaneous chemical products	2,733	82	1,725	12,330	2,904	85	2,298	16,782	85	2,383	8,576	17,778
29	Petroleum and coal products	2,322	152	4,339	208,919	2,254	116	3,996	130,414	115	4,142	25,280	131,415
291	Petroleum refining	(NA)	(NA)	(NA)	(NA)	331	75	2,545	118,166	73	2,929	20,688	118,830
295	Asphalt paving and roofing materials	1,307	30	629	5,948	1,367	28	786	7,749	29	836	3,059	7,930
299	Miscellaneous petroleum and coal products	582	14	312	3,614	556	13	365	4,479	13	377	1,533	4,656
30	Rubber and misc. plastics products	13,449	682	11,597	55,416	14,515	831	17,581	86,634	860	18,750	46,585	94,200
301	Tires and inner tubes	164	70	1,734	9,340	164	65	2,070	10,427	68	2,238	5,779	11,240
302	Rubber and plastics footwear	85	18	197	706	86	11	153	557	12	160	316	583
305	Hose and belting and plastics and packing	635	55	999	3,612	693	52	1,159	4,648	57	1,357	2,857	5,288
306	Fabricated rubber products, n.e.c.	(NA)	(NA)	(NA)	(NA)	1,573	104	2,245	9,227	104	2,290	5,111	9,867
308	Miscellaneous plastics products, n.e.c.	(NA)	(NA)	(NA)	(NA)	12,019	599	11,955	61,775	620	12,706	32,423	67,242
31	Leather and leather products	2,735	200	2,219	9,719	2,193	129	1,831	9,082	128	1,881	4,528	9,664
311	Leather tanning and finishing	384	20	311	1,753	344	15	292	2,219	15	314	13	540
313	Footwear cut stock	161	7	81	368	128	5	70	324	5	66	4	128
314	Footwear, except rubber	751	121	1,250	5,269	479	71	913	4,073	70	924	62	2,172
315	Leather gloves and mittens	96	4	37	178	77	3	34	185	3	32	3	73
316	Luggage	292	16	194	789	241	11	196	929	11	192	8	505
317	Handbags and personal leather goods	636	25	271	1,035	529	17	232	942	17	248	14	551
319	Leather goods, n.e.c.	415	7	76	327	395	7	95	411	7	104	6	260

See footnotes at end of table.

No. 1303. Manufactures—Summary by Industry Group: 1982, 1987, and 1988—Continued

[See headnote, page 740]

SIC ¹ code	INDUSTRY GROUP	1982					1987					1988				
		Establish- ments (number)	All employees		Value of ship- ments (mil. dol.)	Establish- ments, total	All employees		Value of ship- ments (mil. dol.)	All employees		Value added by manufac- ture (mil. dol.)	Value of shipments (mil. dol.)			
			Number, ² (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)					
32	Stone, clay, and glass products	16,545	522	10,097	45,181	16,166	524	12,349	61,477	523	12,735	34,235	63,059			
321	Flat glass	69	15	411	1,666	81	15	507	1,477	14	513	1,517	2,442			
322	Glass and glassware, pressed or blown	459	97	2,032	7,941	522	77	1,959	8,339	76	2,011	5,239	8,563			
323	Products of purchased glass	1,337	41	696	2,977	1,432	51	1,060	5,429	53	1,143	3,036	5,801			
324	Cement, hydraulic	237	25	636	3,542	215	19	599	4,335	19	584	4,234	4,234			
325	Structural clay products	628	30	491	1,868	598	35	689	2,915	34	712	2,185	3,010			
326	Pottery and related products	910	37	598	1,762	1,006	38	762	2,416	39	801	1,752	2,551			
327	Concrete, gypsum, and plaster products	9,933	167	2,995	14,947	9,814	203	4,632	24,427	200	4,728	24,577	24,577			
328	Cut stone and stone products	711	11	156	555	745	13	243	841	13	258	1,176	890			
329	Miscellaneous nonmetallic mineral products	(NA)	(NA)	(NA)	(NA)	1,753	73	1,898	10,226	75	1,985	6,420	10,992			
33	Primary metal industries ³	7,061	854	20,603	104,667	6,771	701	19,777	120,248	726	21,465	56,487	149,080			
331	Blast furnace and basic steel products	1,068	365	267	46,720	1,241	253	8,766	51,815	266	9,015	25,727	64,059			
332	Iron and steel foundries	1,438	157	3,113	9,642	1,231	130	3,426	10,628	137	3,737	11,103	12,066			
333	Primary nonferrous metals	161	44	1,307	11,321	169	32	996	10,969	33	1,105	5,582	15,918			
334	Secondary nonferrous metals	458	19	402	4,852	397	13	312	4,431	13	362	1,180	6,663			
335	Nonferrous rolling and drawing	1,022	167	3,636	25,463	1,066	163	4,298	33,282	163	4,498	11,509	39,601			
336	Nonferrous foundries (castings)	(NA)	(NA)	(NA)	(NA)	1,687	80	1,605	6,315	81	1,882	3,666	7,257			
34	Fabricated metal products	35,560	1,460	28,283	119,444	36,105	1,458	35,000	147,366	1,488	37,140	79,893	158,834			
341	Metal cans and shipping containers	566	59	1,533	12,172	538	48	1,527	12,114	47	1,560	4,329	12,556			
342	Cutlery, handtools, and hardware	2,238	141	2,585	10,082	2,327	145	3,389	13,481	148	3,567	8,245	14,109			
343	Plumbing and heating, except electric	1,177	46	821	4,003	828	46	1,005	5,283	45	1,084	3,068	5,730			
344	Fabricated structural metal products	12,681	422	7,897	34,904	12,579	407	9,042	40,415	413	9,549	19,681	43,390			
345	Screw machine products, bolts, etc.	2,690	94	1,727	5,834	2,569	95	2,270	7,890	98	2,447	5,235	8,643			
346	Metal forgings and stampings	4,019	236	5,110	20,057	4,062	255	7,235	28,410	252	7,530	14,080	29,932			
347	Metal services, n.e.c.	5,070	97	1,518	5,125	5,251	113	2,167	7,790	123	2,514	9,191	9,191			
348	Ordnance and accessories, n.e.c.	349	79	1,780	4,993	374	88	2,458	7,644	87	2,490	5,194	8,022			
349	Miscellaneous fabricated metal products	6,770	284	5,312	22,274	7,577	262	5,906	24,340	274	6,399	14,584	27,262			
35	Industrial machinery and equipment	52,912	2,189	46,911	187,896	52,135	1,844	50,553	217,670	1,898	54,254	129,342	243,261			
351	Engines and turbines	341	112	2,850	13,040	356	87	2,906	14,570	90	3,121	16,223	16,223			
352	Farm and garden machinery	2,078	114	2,366	13,018	1,804	82	1,917	11,474	89	2,141	6,608	13,560			
353	Construction and related machinery	3,952	326	7,332	32,038	3,467	188	5,272	24,622	197	5,649	13,514	27,749			
354	Metalworking machinery	(NA)	(NA)	(NA)	(NA)	11,470	268	7,301	22,004	274	7,821	15,113	24,366			
355	Special industry machinery	(NA)	(NA)	(NA)	(NA)	4,550	169	4,588	17,096	173	4,911	10,644	19,067			
356	General industrial machinery	(NA)	(NA)	(NA)	(NA)	3,929	240	6,203	24,121	252	6,813	15,423	27,198			
357	Computer and office equipment	(NA)	(NA)	(NA)	(NA)	2,134	328	10,668	60,627	330	11,509	33,691	67,644			
358	Refrigeration and service machinery	1,937	172	3,344	16,450	2,129	190	4,752	23,235	194	4,879	12,295	25,579			
359	Industrial machinery, n.e.c.	(NA)	(NA)	(NA)	(NA)	22,296	292	6,946	19,321	300	7,411	14,344	21,875			

See footnotes at end of table.

No. 1303. Manufactures—Summary by Industry Group: 1982, 1987, and 1988—Continued

(See headline, page 740)

SIC ¹ code	INDUSTRY GROUP	1982				1987				1988			
		Establish- ments (number)	All employees		Value of ship- ments (mil. dol.)	Establish- ments, total	All employees		Value of ship- ments (mil. dol.)	All employees		Value added by manufac- ture (mil. dol.)	Value of shipments (mil. dol.)
			Number ² (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)		
36	Electronics; other electric equip.	(NA)	(NA)	(NA)	(NA)	15,962	1,565	38,738	171,286	1,581	41,105	103,475	186,951
361	Electric distribution equipment	(NA)	(NA)	(NA)	(NA)	766	77	1,791	8,197	77	1,888	5,031	9,097
362	Electrical industrial apparatus	(NA)	(NA)	(NA)	(NA)	2,213	166	3,862	15,266	186	4,049	7,524	16,819
363	Household appliances	(NA)	(NA)	(NA)	(NA)	480	117	2,642	16,498	117	2,642	7,563	17,332
364	Electric lighting and wiring equipment	(NA)	(NA)	(NA)	12,048	1,986	167	3,732	18,004	166	3,911	10,790	19,236
365	Household audio and video equipment	(NA)	(NA)	(NA)	(NA)	854	44	850	7,833	46	971	2,300	8,360
366	Communications equipment	(NA)	(NA)	(NA)	(NA)	1,437	260	7,537	34,001	257	8,187	20,759	38,093
367	Electronic components and accessories	(NA)	(NA)	(NA)	(NA)	5,911	546	13,623	50,258	532	14,571	35,260	58,999
369	Misc. electrical equipment and supplies	(NA)	(NA)	(NA)	(NA)	2,315	188	4,562	21,230	188	4,877	11,449	23,014
37	Transportation equipment	9,443	1,596	40,812	201,346	10,500	1,817	58,790	332,936	1,816	61,316	143,500	354,048
371	Motor vehicles and equipment	3,867	616	15,393	112,270	4,422	751	23,910	205,923	732	25,089	72,086	221,575
372	Aircraft and parts	1,471	539	14,718	52,027	1,618	596	20,590	77,304	597	20,969	40,483	79,553
373	Ship and boat building and repairing	2,566	205	4,326	13,326	2,766	177	4,286	13,857	183	4,416	7,902	14,728
374	Railroad equipment	200	35	790	3,457	173	22	631	2,471	26	742	1,483	3,286
375	Motorcycles, bicycles, and parts	273	13	225	1,341	246	7	158	1,063	8	164	386	1,057
376	Guided missiles, space vehicles, parts	105	146	4,481	14,398	156	214	8,114	26,285	224	8,925	18,931	28,194
379	Miscellaneous transportation equipment	961	43	879	4,528	1,119	49	1,122	6,033	47	1,111	2,220	5,655
38	Instruments and related products	(NA)	(NA)	(NA)	(NA)	10,326	982	28,778	107,325	986	29,937	76,094	114,528
381	Search and navigation equipment	(NA)	(NA)	(NA)	(NA)	1,137	369	12,368	36,267	361	12,547	24,667	36,597
382	Measuring and controlling devices	(NA)	(NA)	(NA)	(NA)	4,240	285	7,807	26,042	286	8,251	18,328	28,815
384	Medical instruments and supplies	2,973	189	3,559	15,133	3,443	204	5,027	22,865	214	5,444	16,967	25,330
385	Optical goods	410	26	409	1,273	494	24	475	1,689	28	500	1,345	1,946
386	Photographic equipment and supplies	795	119	3,193	17,038	878	88	2,878	19,241	88	2,823	14,223	20,546
387	Watches, clocks, watchcases and parts	237	17	248	1,188	221	12	223	1,221	9	231	645	1,295
39	Miscellaneous manufacturing industries	15,871	383	5,647	26,891	16,544	374	6,884	32,012	392	7,384	19,028	34,869
391	Jewelry, silverware, and plated ware	2,882	50	770	4,379	2,978	50	941	5,554	521	997	2,463	5,769
393	Musical instruments	452	18	258	916	425	12	218	814	12	235	539	876
394	Toys and sporting goods	2,570	99	1,389	8,256	2,711	89	1,512	8,798	94	1,683	71	9,970
395	Pens, pencils, office, and art supplies	1,026	32	485	2,372	1,013	29	540	2,536	30	575	22	2,861
396	Costume jewelry and notions	(NA)	(NA)	(NA)	(NA)	1,020	32	498	2,062	34	521	23	2,088
399	Miscellaneous manufactures	(NA)	(NA)	(NA)	(NA)	8,397	163	3,174	12,248	172	3,373	7,536	13,287
(X)	Administrative and auxiliary ⁴	9,676	1,276	38,220	(NA)	9,480	1,234	47,202	(NA)	1,231	51,890	(NA)	(NA)

¹ Represents zero. ² NA Not available. ³ Standard Industrial Classification Code; see text, section 27. ⁴ All employees represents the average of production workers plus all other employees for the payroll period ended nearest the 15th of March. ⁵ Includes other industries, not shown separately. ⁶ 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 and Annual Survey of Manufactures*.

No. 1304. Average Hourly Earnings of Production Workers in Manufacturing Industries, by State: 1980 to 1989

(In dollars)

DIVISION AND STATE	1980	1983	1984	1985	1986	1987	1988	1989
U.S.	7.27	8.83	9.18	9.54	9.73	9.91	10.19	10.49
New England:								
ME	6.00	7.61	8.05	8.40	8.65	8.77	9.31	9.92
NH	5.87	7.38	7.85	8.39	8.77	9.29	9.97	10.36
VT	6.14	7.66	8.03	8.41	8.83	9.12	9.47	9.94
MA	6.51	8.01	8.50	9.00	9.24	9.77	10.40	10.87
RI	5.59	6.92	7.23	7.59	7.90	8.20	7.64	8.07
CT	7.08	8.76	9.22	9.57	10.07	10.46	10.78	11.20
Middle Atlantic:								
NY	7.18	8.84	9.22	9.67	9.92	10.09	10.43	10.67
NJ	7.31	9.11	9.50	9.86	10.12	10.40	10.86	11.17
PA	7.59	8.95	9.28	9.57	9.74	9.98	10.33	10.66
East North Central:								
OH	8.57	10.56	10.96	11.38	11.56	11.73	12.00	12.26
IN	8.49	10.10	10.45	10.00	10.81	0.00	0.00	11.70
IL	8.02	9.70	10.08	10.37	10.67	10.85	10.98	11.22
MI	9.52	11.62	12.18	12.64	12.80	12.97	13.31	13.51
WI	8.03	9.76	10.03	10.26	10.35	10.55	10.61	10.76
West North Central:								
MN	7.61	9.56	9.75	10.05	10.20	10.37	10.59	10.96
IA	8.67	10.09	10.25	10.32	10.35	10.62	10.56	10.83
MO	7.26	8.89	9.32	9.57	9.83	10.00	10.24	10.49
ND	6.56	7.74	7.86	8.05	8.19	8.43	8.36	8.79
SD	6.50	7.28	7.15	7.43	7.75	7.82	8.09	8.28
NE	7.38	8.75	8.93	9.02	9.26	9.33	9.38	9.55
KS	7.37	9.28	9.40	9.45	9.76	9.97	10.24	10.67
South Atlantic:								
DE	7.58	9.13	9.30	9.86	10.05	10.67	11.49	12.34
MD	7.61	9.02	9.45	9.73	9.91	10.11	10.71	11.20
DC	8.46	9.75	10.10	10.48	10.40	10.73	11.10	11.80
VA	6.22	7.78	8.12	8.51	8.83	9.14	9.37	9.69
WV	8.08	9.74	9.93	10.24	10.38	10.55	10.81	11.16
NC	5.37	6.68	7.01	7.29	7.54	7.84	8.12	8.41
SC	5.59	7.03	7.28	7.61	7.92	8.10	8.30	8.51
GA	5.77	7.13	7.58	8.10	8.35	8.49	8.65	8.84
FL	5.98	7.33	7.62	7.86	8.02	8.16	8.39	8.67
East South Central:								
KY	7.34	8.79	9.28	9.53	9.86	10.02	10.16	10.37
TN	6.08	7.49	7.93	8.29	8.58	8.78	8.96	9.22
AL	6.49	7.58	7.97	8.48	8.64	8.76	8.95	9.11
MS	5.44	6.70	6.95	7.22	7.46	7.59	7.83	8.03
West South Central:								
AR	5.71	7.05	7.31	7.57	7.76	7.88	8.07	8.26
LA	7.74	9.79	10.06	10.43	10.60	10.90	10.94	11.13
OK	7.36	9.21	9.64	9.86	9.80	10.14	10.35	10.44
TX	7.15	8.88	9.04	9.41	9.65	9.85	9.97	10.25
Mountain:								
MT	8.78	10.42	10.74	10.95	10.94	10.61	10.68	11.15
ID	7.55	8.49	9.34	9.41	9.66	9.75	10.00	10.21
WY	7.01	8.72	8.86	9.64	9.68	9.75	10.27	10.58
CO	7.63	8.97	9.24	9.52	9.82	10.05	10.38	10.45
NM	5.79	7.62	7.97	8.41	8.75	8.74	8.87	8.72
AZ	7.29	8.99	9.09	9.48	9.88	9.97	9.85	9.93
UT	7.02	8.71	8.95	9.64	9.98	9.96	10.11	10.14
NV	7.72	9.02	9.12	9.15	9.36	9.76	10.08	10.33
Pacific:								
WA	(NA)	11.41	(NA)	11.63	11.65	11.73	11.90	12.14
OR	8.65	10.24	10.44	10.50	10.57	10.56	10.60	10.80
CA	7.70	9.52	9.77	10.12	10.37	10.75	10.80	11.16
AK	10.22	12.34	12.25	12.19	11.62	11.79	11.98	12.01
HI	6.83	8.23	8.35	8.65	8.86	9.30	9.84	10.37

NA Not available.

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

No. 1305. Manufactures Summary,

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

	DIVISION AND STATE	1962						1966			
		Establish- ments, total ¹	All employees ²		Production workers ²		Value added by manu- facture ⁴ (mil. dol.)	Value of ship- ments ⁵ (mil. dol.)	All employees ²		Value added by manu- facture ⁴ (mil. dol.)
			Num- ber ³ (1,000)	Payroll (mil. dol.)	Num- ber ³ (1,000)	Wages (mil. dol.)			Num- ber ³ (1,000)	Payroll (mil. dol.)	
1	U.S.	358,061	19,084	379,827	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	1,387	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.	1,961	107	1,792	75	1,055	4,004	7,636	102	2,312	5,248
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	1,780	63	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	66,316	2,048	33,333	139,387	294,829	2,990	75,018	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	7,621	25,747	63,332	575	14,772	34,976
16	IL.	18,618	1,069	22,681	670	11,951	47,705	112,928	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	26,639
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	167	4,404	11,699
27	SA.	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

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 manu- facture ⁴ (mil. dol.)	Value of ship- ments ⁵ (mil. dol.)	Capital ex- pendi- tures	Cost of materials	
	Number ³ (1,000)	Payroll		Number ³ (1,000)	Wages (mil. dol.)					
		Amount (mil. dol.)	Per employ- ee (dol.)							
368,897	18,950	475,651	25,039	12,243	251,433	1,165,917	2,476,071	78,648	1,319,803	1
26,393	1,350	34,455	25,486	821	16,532	78,908	136,989	4,952	59,258	2
2,172	102	2,192	21,451	77	1,457	5,271	10,662	539	5,423	3
2,328	108	2,509	23,306	72	1,427	8,189	12,214	340	4,351	4
1,262	49	1,140	23,265	31	552	2,543	4,753	334	2,202	5
11,006	591	15,211	25,725	348	7,019	35,770	62,794	2,169	27,358	6
2,878	112	2,292	20,594	76	1,252	4,788	9,166	276	4,418	7
6,747	389	11,111	28,484	217	4,826	22,349	37,400	1,293	15,506	8
61,894	3,007	77,767	25,704	1,800	36,529	180,165	346,759	10,050	167,978	9
29,608	1,279	33,916	26,220	723	14,408	80,033	145,657	4,297	66,099	10
14,442	691	18,550	26,728	394	8,389	42,527	82,451	2,313	40,273	11
17,844	1,038	25,302	24,391	682	13,731	57,605	118,651	3,441	61,606	12
69,756	4,186	116,148	27,758	2,735	65,774	266,248	590,487	19,353	325,373	13
17,544	1,100	30,765	27,969	713	17,490	71,707	158,560	4,742	87,238	14
8,641	602	15,757	26,144	427	9,874	39,279	83,788	3,364	44,707	15
18,404	990	26,235	26,484	609	13,401	63,350	132,204	4,426	69,065	16
16,010	980	30,628	31,307	636	17,393	60,259	146,339	4,794	86,313	17
9,157	514	12,763	24,850	350	7,616	31,653	69,596	2,027	38,051	18
24,513	1,322	32,846	24,855	835	17,271	84,891	196,637	5,675	112,363	19
7,112	374	10,142	27,059	215	4,513	23,322	47,774	1,766	24,616	20
3,569	206	4,971	24,136	140	3,043	14,469	35,409	834	21,004	21
7,290	419	10,390	24,833	265	5,402	25,917	58,889	1,620	33,891	22
627	15	310	20,667	10	180	979	2,574	47	1,617	23
764	28	498	18,222	20	313	1,476	3,859	79	2,407	24
1,876	91	1,938	21,267	64	1,212	5,819	16,076	318	10,337	25
3,275	189	4,597	24,317	121	2,609	12,909	31,056	1,011	18,492	26
53,478	3,104	66,893	21,466	2,177	38,411	179,075	373,181	12,100	195,611	27
673	67	2,091	31,412	33	760	3,866	10,730	277	6,926	28
4,244	230	5,956	25,762	140	2,994	14,020	28,009	875	14,010	29
486	17	494	29,059	5	119	1,525	2,128	44	615	30
6,137	429	9,740	22,557	305	5,728	26,857	51,902	1,543	25,454	31
1,619	84	2,108	25,349	59	1,312	5,404	11,561	435	5,980	32
10,985	842	16,293	19,242	637	10,293	47,007	95,317	2,959	48,762	33
4,534	366	7,324	20,022	280	4,742	19,112	41,212	1,586	22,300	34
9,187	570	11,933	20,755	409	7,240	33,708	75,709	2,472	42,271	35
15,603	499	10,954	21,916	309	5,223	27,574	56,613	1,911	29,293	36
19,718	1,303	26,524	20,330	984	17,401	74,296	164,862	5,659	91,048	37
3,693	252	5,865	23,321	185	3,752	18,092	41,827	1,746	23,979	38
6,864	485	9,869	20,320	359	6,283	27,050	57,753	1,905	30,820	39
5,843	347	6,963	19,986	269	4,746	18,852	40,901	1,360	22,299	40
3,318	219	3,827	17,477	171	2,621	10,503	24,381	648	13,950	41
31,304	1,432	34,861	24,232	938	18,879	101,009	262,832	7,398	162,750	42
3,390	206	3,815	18,549	162	2,652	10,827	25,308	892	14,680	43
3,816	161	4,176	25,838	111	2,588	16,426	50,700	1,420	34,284	44
3,728	151	3,629	24,619	105	2,196	9,857	24,074	538	14,289	45
20,370	914	23,241	25,169	561	11,444	63,899	162,751	4,548	99,497	46
16,479	596	14,689	24,613	362	7,282	35,822	73,554	2,739	37,901	47
1,239	20	426	21,400	15	296	1,112	3,498	97	2,394	48
1,491	53	1,149	21,547	38	698	3,057	7,005	235	3,957	49
500	8	180	22,750	5	119	493	2,074	65	1,596	50
4,718	184	4,958	27,098	103	2,286	12,046	23,236	792	11,176	51
1,322	35	713	20,400	24	433	1,653	4,226	196	2,503	52
4,151	184	4,669	25,386	106	2,149	11,299	20,758	837	9,597	53
2,083	89	2,073	23,089	55	1,002	4,883	10,287	404	5,469	54
975	24	521	21,667	16	300	1,279	2,470	114	1,209	55
65,362	2,650	71,469	26,901	1,592	33,353	165,503	330,771	10,723	167,520	56
7,630	310	8,842	28,532	184	4,262	19,016	46,532	1,245	28,698	57
6,353	203	4,767	23,402	144	2,949	11,610	25,352	735	13,831	58
49,930	2,104	57,148	27,089	1,240	25,697	132,638	252,729	8,572	121,049	59
427	11	272	24,000	8	191	834	2,711	69	1,893	60
1,022	22	440	19,818	15	254	1,405	3,448	102	2,049	61

⁴ For definition, see footnote 6, table 1302. ⁵ See footnote 7, table 1302.Source: U.S. Bureau of the Census, *Census of Manufactures, 1982 and 1987 and Annual Survey of Manufactures*.

No. 1306. Finances of Manufacturing Corporations: 1970 to 1989

[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 909 for individual industry data]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Net sales	709	1,065	1,742	1,897	2,145	2,039	2,114	2,335	2,331	2,221	2,378	2,596	2,745
Net operating profit	50	77	135	129	144	105	125	159	138	125	159	190	182
Net profit:													
Before taxes	48	80	154	145	158	108	133	166	137	129	173	216	189
After taxes	29	49	99	92	101	71	86	108	88	83	116	155	136
Cash dividends	15	20	32	36	40	41	42	45	46	46	50	57	65
Net income retained in business	14	29	66	58	61	30	44	63	42	37	66	98	71

Source: Through 1981, U.S. Federal Trade Commission; thereafter, U.S. Bureau of the Census. *Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations*.

No. 1307. Capital in Manufacturing Establishments: 1980 to 1989

[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					
	1980	1985	1986	1987	1988	1989	1980	1985	1986	1987	1988	1989
Purchases of equipment and structures	75.3	83.7	76.9	78.8	86.9	104.0	86.8	84.6	75.5	74.6	81.4	90.9
Percent equipment	80.4	80.0	80.6	81.1	81.7	80.6	80.4	82.4	82.9	83.4	83.8	82.9
Depreciation (straight line)	53.1	74.2	78.4	81.7	84.7	88.6	62.0	72.2	74.3	75.8	77.2	78.7
Percent equipment	78.7	78.6	79.0	78.9	79.0	78.8	78.9	80.4	80.8	81.1	81.3	81.6
Net investment	22.2	9.5	-1.5	-2.9	4.2	15.4	24.9	12.4	1.1	-1.2	4.2	12.2
Net stock, end of year	944.6	1,145.1	1,174.1	1,215.6	1,276.7	1,339.9	1,034.0	1,078.6	1,076.0	1,083.4	1,096.2	1,113.6
Equipment and structures	633.9	811.7	845.8	872.1	906.9	957.2	707.2	758.0	760.5	760.6	766.4	780.0
Percent equipment	67.0	66.8	67.4	67.3	67.9	67.8	67.4	68.7	69.0	69.3	69.7	70.1
Inventories	310.7	333.4	328.3	343.5	369.9	382.7	326.8	320.6	315.5	322.7	329.8	333.6

¹ Depreciation and net stock estimates for equipment and structures 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, August 1989, July 1990, and August 1990.

No. 1308. Manufacturers' Shipments, Inventories, and Orders: 1950 to 1989

[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	414
1968	603	90	1.76	608	110	1988	2,612	348	1.53	2,660	464
1969	642	98	1.81	647	115	1989	2,781	365	1.61	2,827	510

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); and monthly press releases.

No. 1309. Value of Manufactures Shipments and Inventories—Selected Industries: 1980 to 1989

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

SIC code	INDUSTRY	1980	1984	1985	1986	1987	1988	1989
(X)	Shipments, total	1,852.7	2,254.4	2,280.2	2,260.3	2,390.0	2,611.6	2,781.4
(X)	Durable goods industries ²	930.6	1,159.5	1,188.2	1,199.9	1,263.5	1,388.2	1,472.0
32	Stone, clay, and glass products	46.1	53.4	55.1	57.3	62.1	64.0	64.8
33	Primary metals	133.9	119.1	110.5	105.6	117.1	142.2	145.4
34	Fabricated metal products	116.2	135.9	139.6	138.0	135.0	144.1	162.6
35	Machinery, exc. electrical ²	180.7	210.4	215.2	208.5	216.6	247.2	266.0
351	Engines and turbines	13.7	15.5	14.9	14.1	14.4	16.1	13.7
353	Construction, mining ³	33.6	27.1	27.7	25.9	25.8	29.9	33.6
357	Office and computing machines	32.4	59.7	62.2	58.8	61.2	67.9	70.1
36	Electrical machinery ²	128.6	187.6	193.4	196.2	210.7	227.1	239.6
361-2	Elec. transmission and distribution	21.3	24.7	24.7	24.6	25.9	27.6	29.8
363	Household appliances	12.9	16.3	16.2	16.6	18.0	18.1	19.4
365	Radio and TV	8.5	9.9	11.4	11.9	11.5	11.7	12.5
366	Communication equipment	36.0	56.7	65.4	67.4	70.8	74.5	78.1
367	Electronic components	27.6	48.0	42.9	42.0	47.1	54.7	58.1
37	Transportation equipment ²	186.5	281.2	301.4	313.8	323.0	351.9	372.9
371	Motor vehicles and parts	104.6	179.3	188.5	191.6	197.0	219.3	232.9
372, 6	Aircraft, missiles, and parts	58.5	78.8	90.8	101.0	103.7	107.6	113.7
38	Instruments and related products ²	44.1	59.4	61.0	61.9	66.8	72.5	77.0
381-4	Scientific and engineering equipment	25.6	38.3	40.6	40.8	44.7	48.9	51.2
(X)	Nondurable goods industries ²	922.1	1,095.0	1,092.0	1,060.5	126.0	1,223.4	1,309.3
20	Food and kindred products ²	256.2	300.0	301.6	308.5	325.0	356.8	388.1
208	Beverages	33.0	41.2	43.2	45.6	44.9	47.8	50.5
21	Tobacco products	12.2	17.4	18.5	19.1	19.9	22.2	24.1
22	Textile mill products	47.3	55.5	53.3	55.3	57.5	59.8	63.5
26	Paper and allied products ²	72.8	94.8	93.4	97.9	110.3	124.4	130.4
261-3, 6	Paper, pulp, paperboard mill products	31.8	41.4	39.2	41.0	47.0	55.2	57.7
265	Paperboard containers	17.2	22.6	22.7	23.1	26.8	30.6	32.3
28	Chemicals and allied products ²	162.5	198.2	197.3	197.1	212.7	240.5	255.5
281	Industrial inorganic chemicals	57.3	61.5	59.5	54.1	59.5	67.8	68.9
283-4	Drugs, soaps, toiletries	41.9	57.5	60.9	65.8	67.1	73.1	82.0
29	Petroleum and coal products	198.7	189.0	179.1	124.9	124.5	124.2	138.5
30	Rubber and plastics products	47.3	69.5	71.3	73.4	80.5	91.1	95.8
(X)	Inventories, total (Dec. 31)	261.7	329.6	322.4	311.1	325.7	348.5	364.8
(X)	Durable goods industries ²	172.2	214.5	209.9	204.2	212.3	229.0	241.3
32	Stone, clay, and glass products	5.8	7.1	7.0	7.0	7.1	7.4	7.7
33	Primary metals	23.1	21.9	19.5	17.6	18.0	20.2	20.5
34	Fabricated metal products	19.2	22.6	21.9	21.4	22.4	23.1	23.0
35	Machinery, exc. electrical ²	40.3	47.4	44.6	41.2	41.1	45.8	47.1
351	Engines and turbines	2.6	3.0	2.6	2.5	2.5	2.8	2.7
353	Construction, mining ³	9.2	9.1	7.7	6.8	6.5	7.6	7.4
357	Office and computing machines	8.4	13.2	11.9	10.4	10.5	11.8	12.5
36	Electrical machinery ²	25.4	37.6	37.6	37.5	38.4	39.7	39.8
361-2	Elec. transmission and distribution	4.1	5.3	5.0	4.8	4.8	5.1	5.1
363	Household appliances	1.8	2.7	2.5	2.6	2.7	2.7	2.8
365	Radio and TV	1.3	1.4	1.3	1.4	1.3	1.4	1.8
366	Communication equipment	8.8	14.7	15.6	15.8	16.1	15.6	15.5
367	Electronic components	5.4	8.0	7.6	7.2	7.7	8.7	8.5
37	Transportation equipment ²	35.3	49.5	50.9	50.9	55.9	61.7	71.0
371	Motor vehicles and parts	9.6	11.6	11.7	11.1	11.4	11.8	11.8
372, 6	Aircraft, missiles, and parts	21.7	34.4	35.9	36.4	40.8	45.9	54.7
38	Instruments and related products ²	8.8	12.2	12.4	12.2	12.3	13.7	13.7
381-4	Scientific and engineering equipment	6.0	8.9	9.1	9.2	9.2	10.1	10.2
(X)	Nondurable goods industries ²	89.5	115.1	112.5	106.9	113.4	119.4	123.5
20	Food and kindred products ²	22.4	24.4	24.0	24.0	25.2	26.9	26.9
208	Beverages	3.8	4.4	4.6	4.8	4.5	4.5	4.2
21	Tobacco products	3.9	6.9	6.2	5.9	5.9	5.9	5.7
22	Textile mill products	6.5	7.5	7.0	6.9	7.2	7.3	7.8
26	Paper and allied products ²	7.7	10.1	9.9	10.2	11.1	11.9	12.5
261-3, 6	Paper, pulp, paperboard mill products	2.9	3.8	3.8	3.7	3.9	4.3	5.0
265	Paperboard containers	1.9	2.7	2.5	2.6	2.9	3.2	3.2
28	Chemicals and allied products ²	19.6	25.5	25.1	24.2	24.8	27.3	28.7
281	Industrial inorganic chemicals	6.5	8.0	7.5	6.6	6.6	7.2	8.0
283-4	Drugs, soaps, toiletries	5.9	7.5	7.7	8.1	8.7	9.3	9.6
29	Petroleum and coal products	9.9	14.3	13.9	9.2	9.9	8.8	10.2
30	Rubber and plastics products	6.0	8.2	8.4	8.3	9.0	10.1	10.4

X Not applicable. ¹ Standard Industrial Classification. ² Includes industries not shown separately. ³ Also includes material handling industries.

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

No. 1310. Industrial Production Indexes, by Industry: 1970 to 1989

[1987 = 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	1980	1981	1982	1983	1984	1985	1986	1988	1989
(X)	Industrial production	61.4	66.3	84.1	85.7	81.9	84.9	92.8	94.4	95.3	105.4	108.1
(X)	Manufacturing	56.4	61.1	78.8	80.3	76.6	80.9	89.3	91.6	94.3	105.8	108.9
(X)	Durable goods	53.3	56.7	75.7	77.4	72.7	76.8	88.4	91.8	93.9	107.6	110.9
24	Lumber and products	66.7	66.5	76.9	74.7	67.3	79.9	86.0	88.0	95.1	104.6	103.0
25	Furniture and fixtures	55.6	59.4	78.5	77.8	74.0	79.6	87.9	88.1	92.5	103.6	105.3
32	Clay, glass, and stone products	71.1	77.8	92.0	90.1	80.5	87.2	94.2	93.6	97.1	106.4	108.0
33	Primary metals	115.2	107.2	110.8	117.5	83.2	91.0	102.4	101.8	93.8	110.3	109.2
34	Fabricated metal products	75.9	76.7	92.5	91.1	83.2	85.5	93.3	94.5	93.8	106.2	107.2
35	Nonelectrical machinery	32.8	38.1	60.6	65.9	63.9	64.3	80.8	86.8	90.4	113.8	121.8
36	Electrical machinery	40.5	45.1	73.3	75.4	75.9	80.3	94.1	93.1	94.3	106.5	109.5
37	Transportation equipment	55.5	59.7	72.3	68.7	64.8	72.7	83.1	91.8	96.9	105.0	107.2
38	Instruments	38.8	52.4	78.8	80.8	81.8	83.2	92.1	95.7	95.1	110.1	116.4
(X)	Nondurable goods	61.1	67.7	83.1	84.5	82.5	87.0	90.8	91.5	94.9	103.6	106.4
20	Food	64.0	71.4	84.6	86.5	87.7	90.1	92.1	94.9	97.4	102.8	105.5
21	Tobacco products	90.6	97.8	103.6	104.9	101.5	97.1	97.2	97.3	95.8	101.4	99.7
22	Textile mill products	74.4	77.7	92.1	89.4	83.0	93.2	93.7	89.7	93.9	99.8	101.9
26	Paper and products	62.9	65.9	83.1	84.6	81.6	89.0	93.5	92.2	97.1	102.9	103.2
27	Printing and publishing	52.7	53.7	70.3	72.1	75.2	79.0	84.5	87.6	90.7	103.6	108.5
28	Chemicals and products	55.9	69.1	87.8	89.2	81.8	87.5	91.4	91.4	94.6	105.4	108.5
29	Petroleum products	83.9	91.5	99.0	94.1	89.3	89.6	92.8	92.6	98.9	103.4	106.1
30	Rubber and plastics products	37.6	47.4	61.7	66.6	65.9	74.3	83.8	85.8	90.8	105.9	108.9
31	Leather and products	208.0	182.5	161.7	156.7	145.2	140.9	126.5	112.5	102.6	99.6	103.7
(X)	Mining	100.4	98.0	110.0	114.3	109.3	104.8	111.9	109.0	101.0	101.8	100.5
(X)	Utilities	72.9	84.3	95.9	94.3	91.8	93.6	97.0	99.5	96.3	104.4	107.1

X Not applicable. ¹ Standard Industrial Classifications.

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

No. 1311. Index of Manufacturing Capacity: 1950 to 1990

[1987 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 manu- facturing	Primary pro- cessing	Advanced pro- cessing			All manu- facturing	Primary pro- cessing	Advanced pro- cessing
1950	29	83	88	80	1984	111	80	80	80
1960	44	80	80	80	1985	115	80	80	79
1965	54	90	91	89	1986	119	79	81	78
1970	71	80	80	79	1987	123	81	85	80
1975	84	73	73	74	1988	126	84	88	82
1980	98	80	78	81	1989	130	84	87	83
1981	102	79	78	79					
1982	105	73	69	75	1990: 1st qtr	132	83	86	81
1983	108	75	75	75	2d qtr	133	83	85	82

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. 1312. Large Manufacturing Companies—Adequacy of Capital Facilities: 1970 to 1989

[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	1984	8	55	37
1975	19	43	38	1985	10	52	38
1980	12	57	31	1986	8	55	37
1981	9	51	40	1987	8	71	21
1982	8	45	47	1988	12	74	14
1983	6	48	46	1989	12	69	19

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

No. 1313. Large Manufacturing Companies—Capital Appropriations and Expenditures, by Industry: 1980 to 1989

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

INDUSTRY	APPROPRIATIONS					EXPENDITURES				
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989
Total	103,579	108,855	119,168	157,195	165,366	87,007	99,358	103,935	132,448	146,331
Food and beverages	6,650	8,139	10,180	20,977	24,151	6,017	6,535	9,357	16,069	15,327
Paper and allied products	3,515	3,200	7,308	14,608	13,197	3,839	3,951	5,407	7,535	10,754
Chemicals and allied products	12,160	11,528	14,272	17,009	22,907	10,906	10,610	11,624	15,717	20,242
Petroleum and coal products	33,597	25,823	15,841	15,847	18,498	22,044	21,866	14,298	14,461	13,687
Primary iron and steel	2,890	1,943	2,693	3,920	4,529	3,525	2,551	1,629	2,490	3,150
Elec. mach. and equip.	6,519	8,284	22,287	30,902	28,686	6,183	9,185	18,698	27,616	30,424
Machinery, except electrical	8,891	11,446	8,689	7,100	7,615	9,301	10,222	6,608	6,977	7,242
Motor vehicles and equipment	7,012	11,849	6,584	8,732	9,264	5,558	10,275	9,104	9,559	10,479
Other transportation equipment	3,633	5,835	6,220	6,078	7,880	3,744	5,163	5,822	5,702	7,217
Instruments and photo. equip.	3,153	4,008	3,913	4,257	2,900	2,873	3,786	3,536	4,815	2,816
Rubber products	873	4,744	1,608	2,325	4,980	803	3,439	1,361	2,385	3,085
Other manufacturing	14,686	12,056	19,563	25,640	20,779	12,214	11,775	16,491	19,122	21,908

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

No. 1314. 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 5 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. 1315. Foreign Direct Investment Position in the United States for Manufacturing: 1980 and 1989

[In millions of dollars. Minus sign (-) indicates a negative position. See table 1392]

AREA OR COUNTRY	TOTAL ¹		FOOD PRODUCTS		CHEMICALS AND ALLIED PRODUCTS		PRIMARY AND FABRICATED METALS		MACHINERY	
	1980	1989	1980	1989	1980	1989	1980	1989	1980	1989
All countries ²	32,993	160,216	4,896	23,927	10,439	46,268	3,576	18,569	6,988	26,472
Canada	5,227	11,586	(D)	895	116	546	801	3,900	1,173	2,789
Europe	21,953	121,633	2,086	21,597	8,163	42,470	2,194	9,738	4,463	17,976
France	2,291	13,916	111	780	633	5,821	555	2,389	61	1,040
Netherlands	4,777	24,101	225	6,551	2,002	6,828	170	1,706	1,094	4,751
United Kingdom	6,159	50,704	1,098	10,881	2,301	16,248	524	2,228	1,097	5,733
Sweden	994	3,557	1	-3	67	484	148	218	613	1,959
Switzerland	3,116	10,107	586	(D)	1,154	3,169	264	(D)	681	1,516
West Germany	3,875	15,232	43	583	1,815	9,117	333	507	832	2,413
Japan	1,033	17,255	98	397	224	2,420	78	3,304	318	4,960
Australia, N. Zealand, S. Africa	87	3,396	4	380	5	-223	44	956	-2	4
Latin America	4,571	4,230	101	115	1,929	501	412	219	1,027	606
Middle East	83	416	(D)	1	1	5	(D)	(D)	(Z)	(D)
Other Africa, Asia and Pacific	38	1,701	(D)	543	(Z)	549	(D)	(D)	8	(D)

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 1990 issues.

No. 1316. Employment Related to Manufactured Exports, by Industry: 1977 to 1987

[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	EMPLOYMENT RELATED TO MANUFACTURED EXPORTS								CIVILIAN EMPLOYMENT (1,000)			
	Employees(1,000)				Percent of civilian employment				1977	1980	1985	1987
	1977	1980	1985	1987	1977	1980	1985	1987				
U.S.	3,258	4,808	4,413	5,573	3.6	4.8	4.0	4.9	89,369	100,260	110,136	114,840
Manufacturing ..	1,990	2,639	2,295	2,771	10.2	12.8	12.2	14.7	19,590	20,647	18,788	18,900
Nonmfg.	1,268	2,170	2,118	2,802	1.8	2.7	2.3	2.9	69,779	79,613	91,348	95,940
Trade	489	845	949	1,207	2.9	4.3	4.3	5.3	16,653	19,737	21,999	22,922
Business serv. .	215	575	227	317	1.3	3.3	1.1	1.4	16,750	17,245	21,139	23,048
Transp.	185	305	282	379	3.9	4.8	4.6	6.1	4,797	6,369	6,155	6,223
Agriculture ..	129	144	127	146	4.2	4.5	3.7	4.3	3,044	3,225	3,423	3,425
Mining	34	69	50	64	4.6	7.3	4.9	7.3	747	947	1,016	871
Other	216	233	483	689	0.8	0.7	1.3	1.7	27,788	32,090	37,616	39,451

¹ Includes communications and utilities.

No. 1317. Manufacturing Establishments—Export-Related Shipments and Employment, 1977 to 1987, and by Industry, 1987

[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		Export related as per cent of ship- ments	Total (1,000)	Export related		Export related as per cent of total employ- ment
			Total (bil. dol.)	Direct exports ³ (bil. dol.)			Total (1,000)	Direct exports ⁴ (1,000)	
(X) 1977		1,358.4	142.4	85.8	10.4	19,590	1,990	1,106	10.2
(X) 1980		1,852.7	249.8	151.2	13.5	20,647	2,639	1,486	12.8
(X) 1981		2,017.5	271.7	164.3	13.4	20,264	2,604	1,486	12.9
(X) 1983		2,055.3	246.4	141.6	12.0	18,737	2,173	1,118	11.6
(X) 1984		2,253.8	268.3	151.0	11.9	19,141	2,179	1,083	11.4
(X) 1985		2,278.9	286.7	156.9	12.6	18,788	2,295	1,083	12.2
(X) 1986		2,260.3	294.3	159.4	13.0	18,371	2,318	1,061	12.6
(X) 1987, total		2,475.9	378.8	193.6	15.3	18,900	2,771	1,185	14.7
20 Food and kindred products		329.7	17.7	12.8	5.4	1,449	68	50	4.7
21 Tobacco products		20.8	2.9	2.5	13.8	45	8	7	17.4
22 Textile mill products		62.8	5.5	2.1	8.7	672	54	18	8.1
23 Apparel, other textile products		64.2	2.6	1.8	4.1	1,081	30	18	2.8
24 Lumber and wood products		69.7	6.9	3.6	9.9	698	54	23	7.7
25 Furniture and fixtures		37.5	1.2	0.6	3.2	511	15	6	2.9
26 Paper and allied products		109.0	16.0	5.0	14.7	611	82	19	13.4
27 Printing and publishing		136.2	6.7	1.1	4.9	1,494	68	11	4.6
28 Chemical and allied products		229.5	43.7	25.6	19.1	814	139	83	17.1
29 Petroleum and coal products		130.4	13.3	3.3	10.2	116	10	4	9.0
30 Rubber, misc. plastics products		86.6	12.9	4.0	14.8	831	119	33	14.3
31 Leather, leather products		9.1	1.0	0.8	10.6	129	7	5	5.7
32 Stone, clay, glass products		61.5	4.9	1.8	8.0	524	42	14	7.9
33 Primary metal industries		120.2	33.4	4.7	27.8	701	192	14	27.3
34 Fabricated metal products		147.4	22.2	6.1	15.1	1,458	223	56	15.3
35 Machinery, except electric		217.7	61.5	39.1	28.3	1,844	464	276	25.1
36 Electric, electronic equipment		171.3	54.8	21.4	32.0	1,565	534	187	34.1
37 Transportation equipment		332.9	50.7	40.9	15.2	1,817	260	204	14.3
38 Instruments and related products		107.3	17.2	13.0	16.0	982	160	119	16.3
39 Misc. manufacturing		32.0	3.7	3.0	11.6	374	36	27	9.7
— Administrative and auxiliary		-	-	-	-	1,183	205	-	17.3

- Represents zero. 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 Employment is limited to paid employees in manufacturing plants producing the export product. The number of employees related to export shipments was calculated for each establishment, aggregated by industry and by States, and inflated to a level comparable to the plant value of exports reported in the official foreign trade statistics at port value.

Source of tables 1316 and 1317: U.S. Bureau of the Census, *Census of Manufactures, 1977 and 1987; and Annual Survey of Manufactures*.

No. 1318. Export-Related Shipments and Employment of Manufacturing Establishments, by State: 1987

[Advance data. See headnote, table 1317. 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 ship- ments	Total (1,000)	Export related			Export related as percent of total employ- ment
		Total (bil. dol.)	Direct exports (bil. dol.)	Sup- porting exports (bil. dol.)			Total (1,000)	Direct exports (1,000)	Sup- porting exports (1,000)	
U.S.	2,475.9	378.8	193.8	185.2	15.3	18,900.1	2,770.6	1,184.5	1,586.1	14.7
Northeast	484.0	75.1	36.8	38.3	15.5	4,337.1	666.2	271.8	394.6	15.4
N.E.	137.1	26.5	14.3	12.4	19.3	1,347.3	245.9	110.5	135.4	18.3
ME.....	10.7	1.6	0.8	0.8	14.9	101.4	13.0	5.9	7.1	12.8
NH.....	12.2	2.6	1.2	1.5	21.7	108.0	20.8	8.4	12.4	19.3
VT.....	4.8	1.2	0.6	0.6	25.7	48.5	11.4	5.5	5.9	23.5
MA.....	62.8	11.9	6.3	5.6	19.0	591.4	109.8	47.2	62.6	18.6
RI.....	9.2	1.5	0.7	0.9	16.1	111.9	17.1	7.4	9.7	15.3
CT.....	37.4	7.7	4.7	3.0	20.7	386.1	73.8	36.1	37.7	19.1
M.A.	346.9	48.6	22.5	25.9	14.0	2,989.8	420.3	181.1	259.2	14.1
NY.....	145.7	22.0	11.8	10.1	15.1	1,269.8	187.7	83.8	103.9	14.8
NJ.....	62.5	9.6	4.0	5.6	11.6	684.3	86.8	27.3	59.5	12.7
PA.....	118.7	17.0	8.7	10.2	14.3	1,035.7	145.8	50.0	95.8	14.1
Midwest	787.1	113.8	58.8	55.1	14.5	5,495.1	816.6	330.5	486.1	14.9
E.N.C.	590.5	87.6	43.2	44.4	14.8	4,175.6	636.3	245.3	391.0	15.2
OH.....	158.6	25.8	13.0	12.8	16.3	1,096.6	176.8	69.8	107.0	16.1
IN.....	83.8	12.5	5.0	7.5	14.9	600.7	87.3	31.2	56.1	14.5
IL.....	132.2	19.0	8.7	10.3	14.4	985.0	144.6	50.1	94.5	14.7
MI.....	146.3	21.7	12.4	9.3	14.8	979.0	155.1	65.2	89.9	15.8
WI.....	69.6	8.6	4.1	4.5	12.4	514.3	72.5	29.0	43.5	14.1
W.N.C.	196.6	26.2	15.6	10.7	13.3	1,319.5	180.3	85.2	95.1	13.7
MN.....	47.6	8.0	4.7	3.3	16.8	373.5	62.3	28.2	34.1	16.7
IA.....	35.4	4.3	2.6	1.7	12.1	206.0	25.9	13.4	12.5	12.6
MO.....	59.9	8.3	5.1	3.2	13.9	417.7	56.1	26.4	29.7	13.4
ND.....	2.6	0.3	0.2	0.1	12.8	15.4	1.4	0.8	0.6	9.1
SD.....	3.9	0.5	0.3	0.2	12.3	27.3	3.5	1.6	1.9	12.8
NE.....	16.1	1.5	0.8	0.7	9.3	90.6	9.3	3.9	5.4	10.3
KS.....	31.1	3.3	1.9	1.5	10.7	189.0	21.8	10.9	10.9	11.5
South	800.9	115.3	55.1	60.2	14.4	5,825.2	720.4	298.6	421.8	12.4
S.A.	373.1	49.8	24.6	25.1	13.3	3,097.6	365.3	142.3	223.0	11.8
DE.....	10.7	1.1	0.5	0.6	10.1	66.6	8.2	2.0	6.2	12.3
MD.....	28.0	3.7	1.9	1.7	13.1	230.5	29.3	12.6	16.7	12.7
DC.....	2.1	0.2	0.1	0.1	8.3	17.0	1.0	0.3	0.7	5.9
VA.....	51.9	6.8	3.7	3.1	13.1	426.3	46.4	19.1	27.3	10.9
WV.....	11.6	2.6	1.1	1.4	22.1	83.8	13.8	4.8	9.0	16.5
NC.....	95.3	12.3	5.7	6.6	12.9	841.5	86.9	31.9	55.0	10.3
SC.....	41.2	6.6	3.2	3.4	16.0	366.2	48.1	20.8	27.3	13.1
GA.....	75.7	7.7	3.6	4.2	10.2	567.5	53.9	21.2	32.7	9.5
FL.....	56.6	8.8	4.8	4.0	15.5	498.2	77.7	29.6	48.1	15.6
E.S.C.	164.9	22.4	10.3	12.1	13.6	1,304.4	145.0	59.3	85.7	11.1
KY.....	41.8	6.0	2.9	3.1	14.3	251.5	30.5	10.7	19.8	12.1
TN.....	57.8	7.3	3.6	3.7	12.7	484.7	52.2	22.1	30.1	10.8
AL.....	40.9	5.8	2.1	3.7	14.3	348.5	42.0	18.0	24.0	12.1
MS.....	24.4	3.3	1.7	1.6	13.4	219.7	20.3	8.5	11.8	9.2
W.S.C.	262.9	43.1	20.2	23.0	16.4	1,423.2	210.1	97.0	113.1	14.8
AR.....	25.3	3.1	1.4	1.8	12.4	205.4	22.2	8.7	13.5	10.8
LA.....	50.7	7.7	3.4	4.3	15.2	160.4	19.2	8.9	10.3	12.0
OK.....	24.1	2.9	1.4	1.5	11.9	151.3	19.9	9.6	10.3	13.2
TX.....	162.8	29.4	14.0	15.4	18.1	906.1	148.8	69.8	79.0	16.4
West	404.3	74.6	42.8	31.7	18.5	3,242.9	565.5	281.8	283.7	17.4
Mt	73.6	12.3	5.8	6.4	16.7	596.6	99.6	43.9	55.7	16.7
MT.....	3.5	0.5	0.1	0.4	14.2	20.1	1.9	0.4	1.5	9.5
ID.....	7.0	1.2	0.8	0.4	17.0	52.9	8.8	4.8	4.0	16.6
WY.....	2.1	0.2	-	0.1	9.0	7.9	0.7	0.2	0.5	8.9
CO.....	23.2	3.3	1.8	1.4	14.0	183.7	28.6	14.5	14.1	15.6
NM.....	4.2	0.7	0.2	0.5	16.3	34.7	3.9	1.2	2.7	11.2
AZ.....	20.8	4.8	2.1	2.7	23.2	184.7	40.3	16.2	24.1	21.8
UT.....	10.3	1.3	0.6	0.7	12.9	88.9	11.9	4.7	7.2	13.4
NV.....	2.5	0.3	0.2	0.2	13.8	23.7	3.5	1.9	1.6	14.8
Pac	330.7	62.3	37.0	25.3	18.8	2,646.3	465.9	237.9	228.0	17.6
WA.....	46.5	13.6	10.8	2.8	29.3	309.7	71.3	51.5	19.8	23
OR.....	25.4	4.0	2.1	1.8	15.6	203.0	31.5	16.4	15.1	15.5
CA.....	252.7	43.4	23.0	20.5	17.2	2,100.6	357.7	165.6	192.1	17
AK.....	2.7	1.0	0.9	0.1	37.8	11.0	4.4	4.0	0.4	40
HI.....	3.4	0.3	0.2	0.1	9.2	22.0	1.0	0.4	0.6	4.5

- Represents zero.

Source: U.S. Bureau of the Census, *Exports from Manufacturing Establishments AR87-1*.

No. 1319. Beverage Industry—Summary: 1970 to 1988

YEAR AND ITEM	Unit	Total	Malt beverages	Malt	Wine, brandy, brandy spirits	Distilled liquor, exc. brandy	Soft drinks (bottled, canned)	Flavoring, extracts, sirup
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	18,358	4,840
1987: Employees	1,000	161	32	1	14	9	96	9
Payroll	Mil. dol.	4,499	1,355	44	329	240	2,277	254
Value added by manufacture	Mil. dol.	22,704	7,285	154	1,351	2,055	8,574	3,285
Value of shipments	Mil. dol.	47,422	13,619	531	3,179	3,441	22,006	4,646
1988: Employees	1,000	159	32	1	14	8	95	8
Payroll	Mil. dol.	4,552	1,317	43	373	237	2,362	221
Value added by manufacture	Mil. dol.	24,009	7,451	178	1,710	2,039	9,122	3,509
Value of shipments	Mil. dol.	49,722	13,871	613	3,528	3,469	23,310	4,931

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

No. 1320. Alcoholic Beverages—Summary: 1970 to 1989

[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	1982	1983	1984	1985	1986	1987	1988	1989
Beer: Breweries operated	Number	154	86	82	92	96	103	103	120	183	231
Production	Mil. bbl.	135	193	194	196	193	194	194	196	197	198
Value of shipments (SIC 2082)	Mil. dol.	3,822	9,362	11,183	11,798	11,868	12,216	12,678	13,619	13,871	(NA)
Tax-paid withdrawals	Mil. bbl.	123	172	176	178	176	175	177	178	178	179
Stocks on hand, June 30	Mil. bbl.	15	15	14	15	14	14	14	14	14	14
Per capita consumption	Gallons	(NA)	24.5	24.4	24.3	23.9	23.7	24.0	23.7	(NA)	(NA)
Distilled spirits:											
Production facilities operated	Number	140	143	121	121	112	117	117	102	105	119
Warehouses operated	Number	274	200	202	193	202	214	216	211	186	191
Production, total	Mil. tax gal.	355	236	217	181	134	117	102	90	99	135
Whisky	Mil. tax gal.	160	87	96	80	77	65	54	42	38	75
Tax-paid withdrawals, total	Mil. tax gal.	256	330	312	306	301	306	265	271	255	258
Whisky	Mil. tax gal.	112	42	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Stocks on hand, June 30, total	Mil. tax gal.	1,091	696	654	640	636	588	546	508	456	456
Whisky	Mil. tax gal.	960	566	540	523	490	467	445	409	370	361
Bottled for consumption, total	Mil. wine gal.	312	392	375	377	368	371	328	337	317	312
Whisky	Mil. wine gal.	192	165	153	154	142	138	121	119	111	109
Per capita	Wine gal.	(NA)	2.0	1.9	1.8	1.8	1.7	1.6	1.6	(NA)	(NA)
Still wines: Production	Mil. wine gal.	713	982	546	813	684	622	667	677	538	611
Distilling materials	Mil. wine gal.	(NA)	184	138	223	169	148	149	155	119	122
Tax-paid withdrawals	Mil. wine gal.	204	340	365	367	378	414	441	451	451	409
Stocks on hand, June 30	Mil. wine gal.	207	486	519	596	577	602	601	618	570	538
Per capita	Wine gal.	(NA)	2.1	2.2	2.2	2.3	2.4	2.3	2.2	(NA)	(NA)
Effervescent wines:											
Production	Mil. wine gal.	20.0	26.8	30.6	36.6	34.6	32.0	32.1	29.2	29.8	30.9
Tax-paid withdrawals	Mil. wine gal.	17.1	24.1	26.5	31.7	31.9	30.9	31.4	31.2	29.2	27.0
Stocks on hand, June 30	Mil. wine gal.	8.1	11.9	17.6	21.5	20.5	21.3	19.3	18.7	18.2	19.4
Per capita	Wine gal.	0.15	0.17	0.22	0.22	0.21	(NA)	(NA)	(NA)	(NA)	(NA)
Of domestic output	Wine gal.	0.13	0.12	0.17	0.17	0.17	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Barrels of 31 wine gallons (see footnote 8). ² Source: U.S. Bureau of the Census, *Census of Manufactures, 1977, 1982 and 1987*, and *Annual Survey of Manufactures*. ³ Source: U.S. Dept. of Commerce, International Trade Administration. Based on resident population as of July 1, including Armed Forces abroad. ⁴ Excludes alcohol produced for industrial use. ⁵ 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. ⁶ Includes ethyl alcohol. ⁷ A wine gallon is the U.S. gallon equivalent to the volume of 231 cubic inches. ⁸ Production represents total amount removed from fermenters, including distilling material, and includes increase after fermentation (by amelioration, sweetening, and addition of wine spirits). ⁹ Includes special natural wines. ¹⁰ Excludes distilling materials. ¹¹ Includes champagne, other effervescent wines, and artificially carbonated wines.

Source: Except as noted, U.S. Bureau of Alcohol, Tobacco, and Firearms, *Alcohol and Tobacco Summary Statistics*, annual.

No. 1321. Food Manufacturing Industry—Summary: 1970 to 1989

[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	1980	1982	1983	1984	1985	1986	1987	1988	1989
Total employees ¹	1,000	1,786	1,708	1,636	1,615	1,612	1,603	1,609	1,620	1,631	1,645
Production workers	1,000	1,207	1,175	1,126	1,114	1,120	1,118	1,131	1,148	1,158	1,177
Avg. hourly earnings, prod. workers	Dollars	3.16	6.85	7.92	8.19	8.39	8.57	8.75	8.93	9.12	9.38
Salaries and wages	Bil. dol.	11.7	23.2	26.1	26.6	27.4	28.1	28.6	30.2	31.4	(NA)
Value added by manufacture ²	Bil. dol.	32.3	75.5	88.4	93.4	98.0	104.1	112.2	121.8	128.8	(NA)
Value of shipments ³	Bil. dol.	98.5	256.2	280.5	287.1	300.0	301.6	308.5	329.4	351.5	(NA)
Total assets	Bil. dol.	23.8	48.6	58.6	61.5	64.6	69.6	(NA)	43.2	(NA)	(NA)
Capital expenditures, new ⁴	Bil. dol.	2.1	5.8	6.7	5.8	6.4	7.0	7.0	7.2	7.5	(NA)
Corporate profits before taxes ⁵	Bil. dol.	4.8	13.0	13.3	14.8	15.5	20.9	21.1	24.0	30.3	24.8
Corporate profits after taxes ⁵	Bil. dol.	2.6	8.2	8.4	9.4	9.8	12.8	13.3	15.6	20.7	16.5
Ratio of profits to stockholders' equity ⁶	Percent	10.8	14.7	13.0	12.2	13.3	15.3	16.2	17.4	21.0	17.1
Profits per dollar of sales ⁶	Cents	2.5	3.4	3.1	3.3	3.3	4.1	4.2	4.6	5.5	4.2

NA Not available. ¹ Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly. ² See footnote 7, table 1302. ³ See footnote 8, table 1302. 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, and 1987 *Census of Manufactures*, and *Annual Survey of Manufactures*.

No. 1322. Tobacco Products—Production, Consumption, and Expenditures: 1970 to 1989

[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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Production:													
Cigarettes	Billions	583	651	714	737	694	667	669	665	658	689	695	677
Nonfilter tip	Billions	116	80	54	54	47	43	39	36	33	30	28	24
Regular	Billions	54	36	23	24	21	19	18	16	15	14	12	11
King	Billions	62	44	30	30	26	24	21	20	18	16	16	13
Filter tip	Billions	467	571	661	683	647	625	630	629	625	660	667	654
Long and king	Billions	362	404	439	445	404	384	380	378	373	397	400	392
Extra long	Billions	105	167	222	237	243	241	251	252	252	263	267	261
Cigars	Billions	8.4	5.7	4.0	4.0	3.7	3.6	3.5	3.1	2.9	2.1	2.0	2.0
Tobacco ¹	Mil. lb.	165	152	163	163	163	162	163	158	147	143	142	141
Per capita consumption:													
All products	Lb. ³	9.7	9.1	7.9	7.6	7.5	7.2	6.9	6.8	6.6	6.3	6.1	5.8
Cigarettes	1,000	4.0	4.1	3.8	3.8	3.7	3.5	3.4	3.4	3.3	3.2	3.1	2.9
Cigars ⁴	Number	60	39	24	23	22	21	20	18	17	15	14	14
Expenditures (consumer)	Mil. dol.	11.5	15.5	21.0	23.0	25.3	28.7	30.7	32.2	33.7	35.4	37.8	40.4
Cigarettes	Mil. dol.	10.4	14.3	19.4	21.2	23.5	26.8	28.8	30.3	31.8	33.6	35.9	38.3
Cigars	Mil. dol.	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7
Other	Mil. dol.	0.4	0.6	0.9	1.0	1.1	1.2	1.2	1.2	1.2	1.3	1.4	1.4

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 and Outlook*, quarterly.

No. 1323. Mill Consumption of Natural Fibers: 1970 to 1989

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

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, prel.
Cotton ¹	3,854	3,027	3,077	3,036	2,715	2,488	2,808	2,716	2,813	3,259	3,753	3,520	3,976
Wool ²	240	110	117	123	139	116	141	142	117	137	143	133	127
Flax	6	3	5	2	4	8	5	7	4	4	3	4	3
Silk	2	1	2	1	2	2	2	1	2	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. 1324. Cotton, Wool, and Manmade Fibers—Consumption and Distribution in Selected Consumer Products: 1980 to 1988

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

END-USE AND YEAR	COTTON			WOOL		MAN-MADE FIBERS					
	Total (mil. lb.)	Total (mil. lb.)	Percent end-use	Total (mil. lb.)	Percent end-use	Total (mil. lb.)	Percent end-use	Cellulosic ¹		Non-cellulosic ²	
								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
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	13,720	4,327	31.5	226	1.6	9,167	66.7	587	4.2	8,580	62.5
1988	13,458	3,962	29.4	211	1.6	9,285	69.0	613	4.6	8,672	64.4
Apparel:											
1980	4,696	1,652	35.2	125	2.7	2,919	62.1	297	6.3	2,622	55.8
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	5,336	2,541	47.7	157	2.9	2,638	49.4	236	4.4	2,402	45.0
1988	5,033	2,384	47.4	142	2.8	2,507	49.8	276	5.5	2,231	44.3
Home furnishings:											
1980	1,717	787	45.8	15	0.9	915	53.3	169	9.9	746	43.4
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	0.9	965	51.0	125	6.6	840	44.4
1986	1,938	1,020	52.6	18	0.9	900	46.5	131	6.8	769	39.7
1987	2,193	1,263	57.6	18	0.8	912	41.6	139	6.3	773	35.3
1988	2,082	1,113	53.4	16	0.8	953	45.8	130	6.2	823	39.6
Floor coverings:											
1980	1,926	15	0.8	10	0.5	1,901	98.7	-	-	1,901	98.7
1983	2,207	14	0.6	13	0.6	2,180	98.8	1	0.1	2,179	98.7
1984	2,287	14	0.6	14	0.6	2,259	98.8	1	0.1	2,258	98.7
1985	2,585	15	0.6	12	0.5	2,538	98.9	1	-	2,537	98.9
1986	2,800	16	0.6	17	0.6	2,767	98.8	2	0.1	2,765	98.7
1987	2,975	18	0.6	23	0.8	2,934	98.6	1	-	2,933	98.6
1988	3,060	15	0.5	22	0.7	3,023	98.8	1	-	3,022	98.8
Exports of domestic products:											
1980	617	259	42.0	6	1.0	352	57.0	31	5.0	321	52.0
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
1988	456	124	27.2	19	4.2	313	68.6	25	5.5	288	63.1
Industrial: ³											
1980	2,249	412	18.3	11	0.5	1,826	81.2	251	11.2	1,575	70.0
1983	2,434	382	15.7	14	0.6	2,038	83.7	196	8.0	1,842	75.7
1984	2,505	376	15.0	21	0.8	2,108	84.2	187	7.5	1,921	76.7
1985	2,468	375	15.1	13	0.5	2,080	84.4	192	7.9	1,888	76.5
1986	2,620	369	14.1	13	0.5	2,238	85.4	204	7.8	2,034	77.6
1987	2,810	378	13.5	13	0.5	2,419	86.0	189	6.6	2,230	79.4
1988	2,827	326	11.6	12	0.4	2,489	88.0	181	6.4	2,308	81.6

- 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. 1325. U.S. Exports and Imports of Textiles and Apparel Products: 1980 to 1989

[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	1987	1988	1989	1980	1985	1987	1988	1989
Total	4,458	2,712	3,619	4,316	4,875	8,139	18,309	24,812	25,107	28,483
Textile mill products	3,457	2,112	2,671	3,046	3,122	2,372	4,714	6,229	5,980	6,287
Yarn and thread	642	569	526	619	693	168	506	679	644	670
Cotton broad woven fabric	546	203	292	286	367	433	837	1,293	984	1,120
Other broad woven and knit fabric	809	477	579	544	602	784	1,353	1,564	1,619	1,435
Narrow fabric	106	160	174	185	132	43	93	141	147	169
Special fabric	709	284	570	704	659	299	361	470	497	570
Made-up articles	318	222	283	335	286	362	1,019	1,385	1,474	1,139
Textile floor coverings	327	197	247	373	383	283	545	697	615	614
Apparel	1,001	600	948	1,270	1,753	5,767	13,595	18,583	19,127	22,196

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, and *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption*, Report FT925, monthly.

No. 1326. 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	1988	ITEM	1980	1985	1988
MALE CLOTHING				FEMALE CLOTHING			
Suits (men's)	14.6	10.8	11.5	Blouses ² and shirts (mil.do.)	25.6	21.3	16.2
Suits (boys')	3.4	2.5	3.4	Dresses	176.0	151.0	156.2
Trousers (men's)	125.1	116.5	107.2	Suits	17.6	12.3	8.6
Coats ²	17.9	20.6	17.1	Slacks	159.8	160.1	148.5
Woven shirts, (men's) ³ (mil.do.)	13.1	12.7	12.8	Jeans	98.2	90.1	80.3
Slacks	89.0	48.8	43.4	Skirts	98.9	95.4	104.7
Jeans	242.7	210.5	186.9	Coats	17.0	10.7	11.2
Work shirts (mil.do.)	3.6	3.5	4.5	Knit outerwear:			
				Sweaters (mil. doz.)	4.1	7.6	5.4
				Sport shirts ³ (mil. doz.)	10.0	9.6	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. 1327. Nonrubber Footwear—Summary: 1970 to 1988**[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	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
Apparent consumption	801.7	727.9	734.5	729.8	829.7	911.9	1,020.1	1,096.4	1,168.7	1,146.5	1,114.5
Production, shoes and slippers	562.3	413.1	386.3	372.0	359.1	339.2	303.2	265.1	240.9	230.0	235.1
Percent exported	0.4	1.1	3.3	3.0	2.5	2.2	2.9	4.3	5.2	9.1	7.8
Value (bil. dol.)	2.9	3.1	4.7	4.5	4.8	4.8	4.0	4.0	3.6	3.6	3.6
Shoes, sandals, playshoes (production) ¹	460.8	339.1	323.5	302.2	305.1	281.5	243.8	210.4	185.0	179.7	179.9
Exports	(NA)	4.6	12.8	11.2	8.9	7.5	8.9	11.3	12.5	21.0	18.4
Imports	241.5	319.4	361.0	369.0	479.5	580.2	725.8	842.6	940.4	937.5	902.9
Percent of total consumption	30.1	43.9	49.1	50.6	57.8	63.6	71.1	76.9	80.5	81.8	81.0

NA Not available. ¹ Beginning 1980, includes items not shown separately.Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M31A.**No. 1328. Chemicals and Allied Products—Industry Summary: 1972 to 1988**

[In millions of dollars, except as noted]

ITEM	1972	1977	1982	1983	1984	1985	1986	1987	1988
Employment, total (1,000)	837	880	873	851	843	826	802	814	830
Salaries and wages	8,731	13,839	20,836	21,411	22,665	23,345	23,711	25,016	26,396
Production workers (1,000)	825	544	509	496	491	476	458	463	475
Work-hours (million)	1,054	1,090	1,004	981	979	951	928	945	979
Value added	32,414	56,721	77,315	86,473	94,728	95,258	100,013	120,778	137,879
Value of shipments	57,350	118,154	170,737	183,206	198,233	197,311	197,091	229,546	259,699
Assets, total	38,812	65,300	95,125	102,226	106,331	111,945	(NA)	125,482	(NA)
Rents, total	293	513	644	734	779	767	(NA)	973	(NA)
Export value ²	4,183	10,700	20,388	20,099	22,626	21,797	22,562	26,090	(NA)
Import value ²	1,749	4,414	7,572	9,314	11,910	12,708	13,191	14,318	(NA)

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. 1329. 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	2,396	2,077	2,889	2,294	2,277	1,861	2,030	2,248	1,993	2,140	2,296	2,425
Synthetic	2,197	1,958	2,764	2,209	2,190	1,788	1,956	2,177	1,932	2,093	2,261	2,393
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	517	571
Synthetic	299	226	416	472	389	325	289	376	343	387	514	569
Stocks, end of year ¹	645	528	370	279	299	235	220	248	244	285	273	304

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. 1330. Iron and Steel Industry—Summary: 1980 to 1989

[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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Steel mill products, apparent supply	Mil. tons ¹	95.2	105.4	76.4	83.5	98.9	96.4	90.0	95.9	102.7	96.8
Net shipments	Mil. tons	83.9	88.5	61.6	67.6	73.7	73.0	70.3	76.7	83.8	84.1
Exports	Mil. tons	4.1	2.9	1.8	1.2	1.0	1.0	1.0	1.1	2.1	4.6
Imports	Mil. tons	15.5	19.9	16.7	17.1	26.2	24.3	20.7	20.4	20.9	17.3
Scrap consumed	Mil. tons	68.6	68.3	43.7	49.0	51.8	53.2	49.7	51.7	56.3	52.6
Scrap inventory	Mil. tons	6.9	7.1	5.5	5.0	4.4	4.0	3.4	3.8	3.5	3.5
Iron and steel products: Exports	Mil. tons	5.1	3.8	2.6	1.8	1.7	1.6	1.5	1.7	2.8	5.4
Imports	Mil. tons	17.9	22.6	18.8	19.3	29.5	27.6	24.2	23.8	25.7	22.1
Capacity by steelmaking process	Mil. net tons	153.7	154.3	154.0	150.6	135.3	133.6	127.9	112.2	112.0	115.9
Revenue	Bil. dol.	37.7	43.8	28.7	25.0	30.3	28.4	25.0	27.1	32.7	32.3
Net income	Bil. dol.	0.7	1.7	-3.4	-2.2	(-2)	-1.8	-4.1	1.0	-0.6	1.5
Stockholders' equity	Bil. dol.	14.5	15.4	11.3	8.2	9.4	6.9	2.4	3.0	2.2	2.5
Total assets	Bil. dol.	30.8	31.7	27.9	25.5	26.2	24.0	21.0	21.9	24.2	24.6
Capital expenditures	Bil. dol.	2.7	2.4	2.3	1.9	1.2	1.6	0.9	1.2	1.8	2.3
Working capital ratio ²	Ratio	1.6	1.7	1.5	1.3	1.4	1.3	1.6	1.5	1.7	1.7
Inventories	Bil. dol.	4.7	5.4	4.0	3.3	4.2	3.5	3.0	3.4	3.8	4.1
Average employment	1,000	399	391	289	243	236	208	175	183	169	169
Hours worked	Million	758	753	526	475	474	419	358	354	363	360
Index of output, all employees ³	1977=100	103	112	91	116	131	139	142	152	168	165
Producer price indexes:											
Iron and steel, total	1982=100	90.0	98.5	100.0	101.3	105.3	104.8	101.1	104.6	115.7	119.1
Steel mill products	1982=100	85.6	96.6	100.0	100.9	104.7	104.7	99.8	102.3	110.7	114.5
Blast and electric furnace products	1982=100	97.1	99.9	100.0	97.7	97.3	95.6	94.2	97.1	119.6	129.4
Iron ore	1982=100	87.8	96.3	100.0	101.2	101.2	97.5	91.5	84.2	82.8	82.8
Scrap, iron and steel	1982=100	140.9	140.6	100.0	107.4	123.7	112.6	108.6	128.4	177.1	173.7
Foundry and forge shop products	1982=100	89.7	95.4	100.0	101.6	104.4	105.2	105.2	105.7	109.6	114.6

² 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. 1331. Mill and Foundry Products—Shipments: 1980 to 1989

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989
Ferrous castings (1,000 sh. tons):¹									
Gray iron castings	11,799	8,215	9,247	10,520	8,701	8,620	8,606	8,512	7,490
Malleable iron castings	450	284	291	360	376	320	318	364	283
Steel castings	1,878	1,017	729	940	939	826	830	1,013	1,137
Nonferrous castings (1,000 sh. tons):^{2,3}									
Copper and copper-base alloy	285	222	249	252	235	239	238	250	240
Aluminum and aluminum-base alloy	845	803	949	1,116	1,114	1,138	1,116	1,158	1,100
Zinc and zinc-base alloy	243	208	245	272	255	248	240	244	236
Magnesium and magnesium-base alloy	13	9	13	14	12	20	11	12	12
Lead and lead-base alloy die	23	19	28	25	23	26	24	26	23
Copper-based products (mil. lb.):⁴	5,820	4,774	4,827	5,283	4,657	4,588	5,074	(NA)	(NA)
Brass mill products	2,467	2,014	2,116	2,717	2,363	2,318	2,624	(NA)	(NA)
Copper wire mill products	2,783	2,316	2,213	2,062	1,824	1,792	1,922	(NA)	(NA)
Brass and bronze foundry products	570	444	498	504	470	478	528	(NA)	(NA)
Aluminum mill products (mil. lb.):⁵	10,485	9,116	10,624	11,078	11,092	11,416	12,234	12,273	12,304
Plate, sheet, and foil	6,692	6,060	7,171	7,195	7,255	7,490	8,245	8,333	8,499
Extruded shapes and tubing	2,329	1,961	1,980	2,583	2,794	2,944	2,978	2,947	2,835
Rolled structural shapes, rod, bar, cable	1,213	862	936	995	787	744	763	737	719
Powder, flake and paste	117	80	79	99	107	96	92	90	92
Forgings and impacts	134	8152	173	204	149	144	156	166	159

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 M33D, M33A, M33E, and U.S. Bureau of the Census and U.S. International Trade Administration, *Current Industrial Reports*, series ITA-9008, annual.

No. 1332. Net Shipments of Titanium Mill Products: 1980 to 1988

[Thousands of pounds]

PRODUCT	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total¹	54,266	50,985	36,562	31,886	45,429	45,521	41,682	44,572	49,732
Sheet and strip, and plate ²	37,751	23,904	18,185	15,205	23,809	24,664	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 ³	8,043	19,224	14,211	12,345	15,516	14,487	14,416	13,927	18,377

¹ Net shipments is the sum of mill product shipments plus mill products, less total receipts. ² Includes forging and extrusion billet. ³ Also includes sheet and strip, plate, extrusions, and pipe and tubing.

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

No. 1333. Raw Steel, Pig Iron and Ferroalloys Production: 1970 to 1989[In millions, except percent. See also *Historical Statistics, Colonial Times to 1970*, series P 265-269]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
RAW STEEL (net tons)											
World production	654.2	712.0	790.4	710.7	730.9	782.6	792.9	788.9	811.1	859.2	862.6
U.S. production	131.5	116.6	111.8	74.6	84.6	92.5	88.3	81.6	89.2	99.9	97.9
Percent of world	20.1	16.4	14.2	10.5	11.6	11.8	11.1	10.3	11.0	11.6	11.4
Basic oxygen process	63.3	71.8	67.6	45.3	52.1	52.8	51.9	47.9	52.5	58.0	58.3
Electric	20.2	22.7	31.2	23.2	26.6	31.4	29.9	30.4	34.0	36.8	35.2
Open hearth	48.0	22.2	13.0	6.1	5.9	8.3	6.4	3.3	2.7	5.1	4.4
Carbon	117.4	100.4	94.7	64.1	73.8	79.9	76.7	71.4	78.0	86.8	86.2
Alloy and stainless	14.1	16.3	17.1	10.5	10.8	12.6	11.6	10.2	11.2	13.1	11.7
Pig iron and ferroalloys, production (sh. tons)	93.5	79.9	68.7	43.3	48.7	51.9	50.4	44.0	48.4	55.7	55.9

¹ Beginning 1975, includes blast furnace ferroalloys.**No. 1334. Steel Products—Net Shipments, by Market Classes: 1970 to 1989**

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

MARKET CLASS	1970	1975	1980	1984	1985	1986	1987	1988	1989
Total ¹	90,798	79,957	83,853	73,739	73,043	70,263	76,654	83,840	84,100
Automotive	14,475	15,214	12,124	12,882	12,950	11,889	11,343	12,555	11,763
Steel service centers, distributors	16,025	12,700	16,172	18,364	18,439	17,478	19,840	21,037	20,769
Construction, incl. maintenance	8,913	8,119	8,742	7,522	7,900	7,336	7,681	8,607	8,318
Containers, packaging, shipping	7,775	6,053	5,551	4,352	4,089	4,113	4,372	4,421	4,459
Machinery, industrial equipment, tools	5,169	5,173	4,543	2,886	2,271	2,076	2,277	2,798	2,409
Steel for converting and processing	3,443	3,255	4,117	5,136	5,484	5,635	7,195	6,492	8,235
Rail transportation	3,098	3,152	3,155	1,438	1,061	798	758	1,146	1,229
Contractors' products	4,440	3,927	3,148	2,631	3,330	3,278	3,337	3,495	3,182
Oil and gas industries	3,550	4,171	5,371	2,003	2,044	1,023	1,489	1,477	1,203
Electrical equipment	2,694	2,173	2,441	2,365	1,869	2,113	2,373	2,459	2,449
Appliances, utensils, and cutlery	2,160	1,653	1,725	1,635	1,466	1,648	1,633	1,638	1,721

¹ Includes other classes not shown and nonclassified shipments.Source of tables 1333 and 1334: American Iron and Steel Institute, Washington, DC, *Annual Statistical Report*. (Copyright.)**No. 1335. Machine Tool Orders and Shipments: 1970 to 1989**

[In millions of dollars. These data represent total industry volume based on reports from over 200 manufacturers]

YEAR	METAL CUTTING TYPE TOOLS					METAL FORMING TYPE TOOLS				
	New orders (net)		Shipments		Order backlog, end of period	New orders (net)		Shipments		Order backlog, end of period
	Total	Domestic	Total	Domestic		Total	Domestic	Total	Domestic	
1970	651	507	993	827	471	261	227	450	412	235
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
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
1989	1,976	1,723	2,359	2,059	1,423	832	719	837	704	390

Source: NMTBA-The Association For Manufacturing Technology, McLean, VA; data published in U.S. Bureau of Economic Analysis, *Business Statistics*, 1979, for 1970-1978; thereafter, *Survey of Current Business*, monthly.**No. 1336. U.S. Factory Sales of Electronics Shipments: 1975 to 1989**

[In millions of dollars]

TYPE OF ELECTRONICS	1975	1980	1983	1984	1985	1986	1987	1988	1989
Total value ¹	42,269	100,550	138,570	196,610	204,570	215,318	234,113	247,728	(NA)
Computers and industrial electronics	13,457	39,272	57,265	69,474	70,310	70,994	77,038	84,839	89,430
Communications equip. and systems	14,302	30,772	42,119	49,529	57,095	59,823	62,368	64,750	67,230
Electronic components	9,286	25,571	33,856	43,306	39,459	38,829	45,335	50,735	54,626
Consumer electronics (excl. imports)	5,224	4,935	5,330	5,999	5,240	5,231	5,106	6,206	6,702

NA Not available. ¹ Beginning 1984, includes other products and related services not shown separately.Source: Electronic Industries Association, Washington, DC, *Electronic Market Data Book*, annual.

No. 1337. Manufacturing Technology—Percent of Establishments Using and Planning to Use: 1988

ESTABLISHMENT CHARACTERISTIC	ESTABLISHMENTS USING SELECTED TECHNOLOGIES										PLANNING TO USE WITHIN 2 YEARS				
	Computer aided design (CAD) or computer aided engineering	Numerically controlled machines	Auto-mated material handling	Auto-mated sensor based inspection or testing	Communication and control					Design and engineering	Fabrication/ machining/ assembly	Auto-mated material handling	Auto-mated sensor based inspection or testing	Communication and control	
					Program-mable control-lers	Computer control on factory floor	LAN ¹		Inter-company network						
							For technical data	For factory use							
Major SIC ² group:															
34, Fabricated metal products...	26.8	32.2	1.8	15.0	26.8	21.1	13.4	11.6	20.4	14.7	1.3	6.5	38.8		
35, Industrial mach. and equip. ...	43.2	56.7	5.3	18.4	33.9	28.1	18.5	16.3	30.8	14.9	2.6	8.2	40.3		
36, Electronic and other...	48.5	34.9	6.7	38.4	38.0	34.5	24.9	21.1	26.6	16.2	3.3	12.0	49.5		
37, Transportation equip.	38.9	37.3	8.0	27.1	32.0	27.4	22.0	18.7	25.9	20.2	3.5	7.1	36.3		
38, Instruments, related prod.	48.9	33.6	5.5	27.6	32.7	32.3	25.8	21.3	28.7	19.4	2.5	12.0	45.4		
Employment size:															
20 to 99...	29.8	35.9	1.7	13.8	22.5	18.9	13.1	11.0	29.3	11.4	1.2	6.2	36.2		
100 to 499...	54.4	50.0	5.4	31.6	48.1	41.0	25.9	22.9	32.6	26.9	3.8	13.4	53.0		
500 and over...	82.6	69.8	37.5	85.8	77.8	68.0	56.6	50.7	32.6	40.7	10.3	16.0	55.9		
Age of plant (years):															
Less than 5...	44.4	37.3	3.7	24.7	29.5	27.3	21.3	18.0	32.0	19.5	1.7	13.4	50.3		
5 to 15...	42.6	42.3	4.4	24.9	34.5	29.8	21.3	17.4	26.8	19.9	3.3	9.9	48.1		
16 to 30...	41.3	48.0	4.7	23.7	34.9	29.0	18.4	17.1	27.5	17.6	2.2	7.9	45.1		
Over 30...	43.1	50.0	7.3	24.9	39.0	32.1	20.7	18.7	27.0	17.0	2.6	7.9	38.5		
Manufacturing process:															
Fabrication/ machining...	31.1	53.5	2.4	20.6	31.2	24.7	13.7	12.2	24.1	15.6	1.6	9.9	45.1		
Assembly...	49.9	15.1	7.4	30.5	30.5	32.6	26.2	22.5	22.9	19.5	3.9	11.0	45.7		
Both...	47.2	55.0	5.7	25.2	38.7	32.1	21.8	16.8	33.3	20.1	2.7	9.0	46.0		
Neither...	18.5	9.6	2.7	14.8	24.6	17.4	15.9	12.1	13.7	10.9	1.3	6.0	36.3		
Market for most products:															
Consumer...	27.6	23.9	4.6	21.2	34.5	27.1	16.1	17.2	21.7	21.3	3.0	10.6	42.3		
Commercial...	49.1	41.7	6.5	25.9	34.3	33.0	24.4	22.0	32.1	18.7	2.8	9.8	43.5		
Industrial...	42.9	49.5	3.9	21.3	34.5	27.6	19.1	15.9	29.9	16.4	2.2	8.5	45.8		
Transportation...	45.7	47.9	8.3	35.4	44.3	34.5	24.8	20.4	34.1	20.9	3.6	11.9	57.0		
Government...	57.0	62.0	7.9	42.2	38.4	41.0	28.9	22.8	28.0	29.1	3.7	13.5	51.9		
Other...	36.6	36.9	4.5	14.6	24.5	24.0	16.7	13.3	16.6	12.4	1.5	5.4	31.6		
Market price for most products:															
Less than \$5...	28.6	29.0	2.2	27.0	39.3	26.4	16.7	15.1	25.4	22.1	1.7	13.4	47.6		
\$5 to \$100...	33.3	45.1	3.5	25.6	33.7	29.9	16.4	17.7	28.2	22.1	3.7	11.9	47.1		
\$101 to \$1,000...	41.0	51.5	4.5	24.9	31.6	29.6	20.0	16.1	27.6	18.5	1.9	8.0	47.0		
\$1,001 to \$2,000...	50.2	49.2	6.0	25.8	32.1	30.5	22.1	18.5	29.9	16.9	3.6	10.5	43.3		
\$2,001 to \$10,000...	50.9	45.0	4.9	21.2	28.0	30.7	22.0	17.4	30.7	13.5	2.0	6.7	41.1		
Over \$10,000...	61.8	46.8	9.8	22.2	39.8	31.9	29.9	21.8	33.5	16.0	1.1	6.0	46.5		

¹ Local area network. ² Standard Industrial Classification; see text, section 13.Source: U.S. Bureau of the Census, *Current Industrial Reports, Manufacturing Technology, 1988*.

No. 1338. Robots—Units Shipped and Value: 1985 to 1989

[Based on a survey of all known manufacturers of robots, robot accessories, and components. Shipment value represents the net sales price, i.e., plant, to the customer 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, ACCESSORIES, AND COMPONENTS	UNITS SHIPPED (number)			VALUE OF SHIPMENTS (mil. dol.)		
	1985	1988	1989	1985	1988	1989
Robots, robot accessories, and components	(X)	(X)	(X)	345.2	238.0	256.0
Robots, complete	5,466	4,603	2,217	275.7	164.1	150.6
Servo-controlled robots	2,978	2,072	1,840	254.9	137.7	135.7
Point-to-point type:						
Welding, soldering, brazing, and/or cutting (welding type)	839	304	273	74.6	32.3	29.3
Foundry, forging, and/or heat treating	65	31	34	4.5	3.2	9.3
Assembly for non-electronic and electronic products	547	296	238	17.8	8.0	8.1
Material handling and/or parts transfer	463	247	162	44.9	27.0	26.0
Continuous-path type:						
Welding, soldering, brazing, and/or cutting	287	79	31	22.4	3.7	2.2
Spraying, painting, gluing, and/or sealing	339	292	254	41.4	30.1	35.1
Fettling, grinding, polishing, and/or deburring	438	823	848	49.4	33.4	25.6
Nonservo-controlled robots	460	336	377	18.0	17.1	14.9
Other robots	2,028	2,195	(³)	2.8	9.3	(³)
Robot accessories, subassemblies, etc	(X)	(X)	(X)	69.5	73.9	105.4
Miscellaneous receipts	(X)	(X)	(X)	9.2	5.8	2.5

X Not applicable. ¹ Includes all point-to-point robots, except assembly, material handling and/or parts transfer. ² Includes other continuous-path type, not elsewhere classified. ³ Beginning in 1989, other robots which included educational, hobby, experimental and non-industrial robots are no longer collected in this survey.

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

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
Multuser 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.	0.4	0.7	0.9	1.5	2.2
Personal computers shipped ⁷	1,000	7.8	6.1	6.8	8.7	18.5
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, PCs, 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 millions of 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	2.12	5.53	12.17	19.18	25.27	31.15	37.84	45.08
Workplace:								
Business: 1-49 employees	1.24	2.26	4.00	6.44	9.26	12.22	15.91	20.33
50-999 employees	0.30	0.55	0.99	1.71	2.57	3.47	4.55	5.84
Over 999 employees	0.24	0.44	0.77	1.26	1.82	2.46	3.25	4.23
Government	0.47	0.88	1.61	2.65	3.73	4.82	6.14	7.73
Education	0.24	0.40	0.62	0.82	1.14	1.47	1.97	2.53
Kindergarten through grade 12	0.13	0.27	0.54	0.78	1.15	1.55	1.96	2.36
College/university	0.10	0.21	0.40	0.59	0.87	1.17	1.48	1.76
Homes	0.03	0.06	0.14	0.20	0.28	0.38	0.49	0.60
Personal computer-related equipment in use:	0.75	3.00	7.64	11.95	14.86	17.38	19.97	22.38
Impact printers	0.72	1.90	4.25	8.70	12.80	17.21	22.49	27.30
Nonimpact printers	0.02	0.10	0.31	0.68	1.19	1.83	2.76	3.42
Plotters	0.02	0.05	0.12	0.22	0.39	0.61	0.88	1.07
Monochrome monitors	0.97	2.24	4.68	7.00	9.74	12.56	15.59	18.65
Color monitors	0.13	0.48	1.29	2.98	5.01	7.73	11.68	13.97
Modems	0.18	0.53	1.41	3.00	4.66	6.55	8.91	10.91
Add-in boards ²	2.41	5.68	11.43	19.36	29.82	41.22	55.17	65.26
PC hardware maintenance (mil. dol.) ³	76	166	279	558	951	1,061	1,750	2,298

¹ Excluding multuser personal computers. ² Excluding add-in modem boards. ³ Excluding education and home.

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

No. 1341. Semiconductors and Related Devices: 1980 to 1989

(In million of dollars, except percent. Semiconductors and related devices represent SIC 3674)

ITEM	1980	1983	1984	1985	1986	1987	1988	1989
Semiconductors: ¹								
Sales	6,053	9,092	13,006	9,420	10,844	12,858	15,844	(NA)
Capital expenditures (North America)	1,438	1,452	3,039	2,072	1,438	1,911	2,589	(NA)
Percent of sales	22.6	16.0	23.4	22.0	13.3	14.9	16.2	(NA)
Japanese capital expenditures as a percent of revenues	17.2	21.5	43.0	40.0	16.0	16.0	21.7	(NA)
R&D (North America)	423	757	1,007	1,159	1,250	1,448	1,661	(NA)
Semiconductor imports, total ²	2,223	4,523	6,699	4,870	5,044	6,656	9,502	10,758
Integrated circuits, total	1,909	4,075	6,055	4,365	4,459	6,000	8,683	9,957
Transistors	193	248	332	242	279	318	402	401
Diodes and rectifiers	121	200	312	263	306	338	417	400
Semiconductors and related devices:								
Shipments	9,455	12,801	17,819	15,253	14,930	17,929	22,597	(NA)
Integrated microcircuits	6,768	8,647	13,484	10,872	10,925	13,300	(NA)	(NA)
Semiconductor devices, n.e.c. ³	1,398	2,484	2,543	2,569	2,303	2,586	(NA)	(NA)
Assets, beginning of year	4,014	8,400	9,789	12,200	(NA)	16,515	(NA)	(NA)
New capital expenditures	1,596	1,832	2,818	2,832	2,220	1,921	2,681	(NA)
Used capital expenditures	40	65	96	390	66	94	(NA)	(NA)
Retirements	230	562	543	896	(NA)	1,442	(NA)	(NA)
Assets, end of year	5,420	9,735	12,159	14,526	(NA)	17,088	(NA)	(NA)
Depreciation charges	601	1,014	1,309	1,512	(NA)	1,719	(NA)	(NA)
Rental payments	74	147	173	184	(NA)	203	(NA)	(NA)

NA Not available. ¹ Source: Dataquest Inc., San Jose, CA, unpublished data. ² Imports for consumption. Includes imports not shown separately. ³ N.e.c. = Not elsewhere classified.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series MA-36Q; *U.S. Imports, FT 210, 1980-1988: Import CD-Rom disc 1989*; and *Annual Survey of Manufacturers*.

No. 1342. Microcontrollers and Chip Shipments: 1982 to 1988

ITEM	Unit	1982	1983	1984	1985	1986	1987	1988
Microcontrollers, worldwide: Units	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	0.05	0.09	0.06	0.23	0.40	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.	0.9	1.1	0.7	4.0	7.0	29.1	46.8
32-bit processor—Units:								
RISC	Mil. units	(NA)	(NA)	(NA)	0.005	0.017	0.070	0.220
CISC ²	Mil. units	(NA)	(NA)	0.010	0.095	0.453	1.740	4.945
Revenue	Mil. dol.	(NA)	(NA)	3.0	19.0	88.0	300.6	888.6
RISC	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 DRAM³ chips	Mil. units	1.0	18.0	200.0	237.9	620.0	775.0	947.1
Revenue	Mil. dol.	-	85	895	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. 1343. Computers and Industrial Electronic Equipment-Shipments, by Type: 1975 to 1989

(In millions of dollars)

TYPE OF EQUIPMENT	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total ¹	13,457	39,272	47,655	53,320	57,265	69,474	70,310	70,994	77,038	84,839	89,430
Computer and peripheral equipment	7,478	24,320	29,099	33,286	37,131	46,486	47,629	48,083	52,879	59,487	62,450
Computers	2,123	9,580	12,438	14,557	16,288	22,532	23,801	24,836	27,778	32,073	33,260
Peripheral equipment	3,732	14,740	16,661	18,728	20,844	23,954	23,828	23,247	25,101	27,414	29,190
Controlling, processing equipment	2,492	5,627	6,717	6,523	6,186	7,294	7,410	7,677	7,892	8,571	9,105
Testing, measuring equipment	1,552	3,584	4,144	4,695	5,200	6,279	6,008	5,736	6,009	6,038	6,450
Medical electronic equipment	829	2,703	3,380	4,402	4,845	5,148	5,028	5,111	5,578	5,982	6,355
Nuclear electronic equipment	292	384	447	546	490	480	519	560	601	614	625

¹ Includes other types of equipment not shown separately.

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

No. 1344. Electric and Electronic Equipment—Industry Summary: 1982 to 1988

SIC ¹ code	INDUSTRY	1982		1987		1988					
		Em- ploy- ees (1,000)	Value of ship- ments (mil. dol.)	Em- ploy- ees (1,000)	Value of ship- ments (mil. dol.)	Employees		Value of ship- ments (mil. dol.)	New capital expen- ditures (mil. dol.)	Value added by manu- facture (mil. dol.)	Cost of material (mil. dol.)
						Number (1,000)	Payroll (mil. dol.)				
36	Total	(NA)	(NA)	1,566	171,271	1,581	41,105	186,951	7,972	103,475	84,681
361	Electric distributing equipment	(NA)	(NA)	77	8,197	77	1,868	9,097	186	5,031	4,197
362	Electrical industrial apparatus	(NA)	(NA)	166	15,266	166	4,049	16,819	460	9,724	7,199
363	Household appliances	(NA)	(NA)	117	16,498	117	2,672	17,332	469	7,563	9,927
364	Electric lighting and wiring equipment	159	12,048	167	18,004	168	3,911	19,236	506	10,790	8,510
365	Household audio and video equipment	(NA)	(NA)	44	7,833	46	971	8,360	214	2,900	5,406
366	Communication equipment	(NA)	(NA)	260	34,001	267	8,187	36,093	1,388	20,759	15,808
367	Electronic components and accessories	(NA)	(NA)	547	50,258	552	14,570	56,999	3,954	35,260	21,914
369	Miscellaneous electrical equipment and supplies	(NA)	(NA)	188	21,214	188	4,877	23,014	795	11,449	11,719

NA Not available. ¹ Standard Industrial Classification.Source: U.S. Bureau of the Census, *Census of Manufactures, 1987*, and *Annual Survey of Manufactures*.**No. 1345. Electronic Computing Equipment Industry—Summary: 1988**

(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)
Employees (1,000)	329.8	150.6	56.1	15.8	67.8	12.3	27.2
Payroll	11,509	5,514	1,976	452	2,331	348	888
Production workers (1,000)	122.6	54.7	20.2	5.9	24.0	5.2	12.6
Hours (million)	245.2	109.2	42.6	11.2	46.8	10.4	25.0
Wages	2,634	1,211	445	123	515	96	244
Value added	33,691	19,703	4,209	1,210	5,928	898	1,743
Cost of materials	34,891	18,091	5,471	1,159	7,761	569	1,641
Value of shipments	67,644	37,683	9,544	2,333	13,213	1,469	3,402
New capital expenditures	2,385	1,304	404	43	462	51	121

Source: U.S. Bureau of the Census, *Census of Manufactures, 1987*, and *Annual Survey of Manufactures*.**No. 1346. Electronic Components and Accessories Industry—Summary: 1977 to 1988**

(In millions of dollars, except as indicated. Included in SIC 367)

ITEM	1977	1980	1981	1982	1983	1984	1985	1986	1987 ¹	1988
Employment, total (1,000)	373.5	498.6	503.5	515.8	515.0	582.3	558.1	517.0	547.3	551.8
Salaries and wages	4,557	7,780	8,664	9,770	10,605	12,648	12,352	12,306	13,652	14,571
Production workers (1,000)	257.9	336.6	325.5	324.8	329.0	374.7	345.2	313.0	329.8	336.5
Work-hours (million)	508.7	650.1	631.3	626.3	642.4	736.7	667.0	613.0	653.9	668.0
Workers wages	2,457	4,050	4,366	4,645	5,015	6,018	5,808	5,540	6,094	6,530
Value added	9,260	16,902	18,537	21,214	23,610	30,427	26,368	25,851	30,815	35,260
Supplemental labor cost	811	1,497	1,728	2,065	2,294	2,752	2,639	2,608	2,926	(NA)
Cost of materials	6,390	11,434	12,159	15,564	13,912	18,190	16,414	15,843	19,832	21,914
Value of shipments	15,390	27,647	30,421	34,517	37,194	47,983	42,921	41,985	50,258	56,999
New capital expenditures	783	2,616	2,459	3,013	2,897	4,410	4,495	3,419	3,101	3,954
Inventories	2,773	5,388	5,745	6,436	6,841	8,037	7,621	7,227	8,382	9,030
Assets, total	6,026	10,615	12,567	15,489	17,609	21,699	25,123	(NA)	30,199	(NA)
Rents, total	107	189	247	284	315	373	391	(NA)	474	(NA)

NA Not available. ¹ Due to 1987 SIC revisions, prior years data are not comparable to 1987 and later data.Source: U.S. Bureau of the Census, *Census of Manufactures, 1977, 1982, and 1987*, and *Annual Survey of Manufactures*.

No. 1347. Factory Sales of Electronic Components and Consumer Electronic Products: 1980 to 1989

[In millions of dollars]

PRODUCT	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Electronic components	25,571	28,784	29,561	33,856	43,306	39,459	38,829	45,335	50,735	54,626
Solid state products	9,089	10,309	10,729	12,570	17,032	14,650	14,408	16,819	19,685	21,650
Parts	7,080	7,647	7,403	8,318	10,155	9,329	9,169	10,664	11,292	11,678
Electron tubes	1,744	1,959	1,885	2,049	2,137	2,055	2,125	2,176	2,263	2,578
Other components ¹	7,658	8,869	9,544	10,919	13,982	13,423	13,121	15,676	17,495	18,720
Consumer electronic products	10,891	12,438	12,499	14,560	17,594	18,907	21,472	21,828	22,132	(NA)
Color TV receivers	4,210	4,349	4,253	5,002	5,538	5,565	6,040	6,303	6,277	6,530
Car audio	1,368	2,000	2,100	1,900	2,500	2,761	3,135	3,523	3,937	4,125
Video cassette recorders	621	1,127	1,303	2,162	3,585	4,173	3,978	3,442	2,848	2,625
Camcorders	621	1,127	1,303	2,162	3,585	4,738	1,280	1,651	1,972	2,007
Separate audio components	1,424	1,363	1,181	1,268	913	1,132	1,358	1,715	1,854	1,871
Portable audio tape equipment	1,403	1,157	971	1,102	1,191	1,140	1,389	1,469	1,547	1,595
Audio systems ²	809	720	573	630	976	1,372	1,370	1,048	1,225	1,217
Blank video cassettes	(NA)	(NA)	357	580	770	1,055	1,235	1,006	936	923
Projection TV	(NA)	287	236	268	385	488	529	527	529	478
Home radios	468	501	530	565	661	379	408	409	377	379
Blank audio cassettes	(NA)	227	202	234	256	263	292	364	354	367
Monochrome TV receivers	588	505	507	465	419	328	373	341	236	156
Video disc players	(NA)	55	54	81	45	23	26	30	40	59
Color cameras	(NA)	147	232	303	355	228	59	(NA)	(NA)	(NA)

NA Not available. ¹ Includes sockets, delay lines, loudspeakers, magnetic components, transducers, printed circuit boards, microwave components, assemblies, and parts. ² 1980 includes console phonographs.

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

No. 1348. Selected Electric Home Appliances and Consumer Electronic Products—Shipments and Retail Value: 1985 to 1989

[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.)				
	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
Major appliances:										
Air conditioners	2,900	2,765	3,659	4,379	4,909	1,286	1,130	1,502	1,774	2,012
Refrigerators	5,874	6,284	6,724	6,973	6,799	4,121	4,299	4,557	4,880	4,881
Microwave ovens	10,633	12,658	12,741	11,189	10,848	3,468	3,600	3,541	2,726	2,541
Ranges, electric	3,218	3,532	3,362	3,186	3,068	1,517	1,589	1,643	1,545	1,524
Freezers ²	1,140	1,154	1,180	1,250	1,189	546	517	526	555	544
Ranges, gas	1,807	1,895	2,132	2,132	2,088	821	880	992	989	960
Dryers	3,701	4,114	4,421	4,363	4,404	1,326	1,451	1,544	1,536	1,422
Washers	4,925	5,430	5,610	5,708	5,765	2,231	2,379	2,470	2,514	2,341
Video:										
TV, color	16,894	18,855	18,473	19,173	20,955	7,250	7,632	8,221	8,434	8,749
Videocassette recorders	11,912	12,685	11,700	10,998	9,843	(NA)	5,067	4,553	4,348	3,767
Camcorders	(NA)	1,090	1,600	2,108	2,348	(NA)	1,213	1,674	2,082	2,170
Video cameras	402	181	110	90	81	266	118	77	62	51
Video cassette players	(NA)	150	182	213	234	(NA)	28	28	32	35
Audio/HiFi:										
Components ³	8,800	10,914	12,085	12,858	14,050	1,653	2,041	2,232	2,571	3,060
Compact disc players	850	1,384	2,490	2,237	2,338	284	356	514	512	511
Tape decks	908	1,508	1,458	1,457	1,542	176	284	282	283	289
Portable tape equipment	27,626	30,635	30,763	29,556	31,085	1,339	1,449	1,442	1,372	1,452
Radios	27,528	29,896	30,678	27,252	28,371	808	845	818	761	815
Headphones	3,167	3,425	3,534	3,477	3,755	134	140	149	146	160
Cartridges	3,047	2,795	2,539	1,803	1,533	94	86	78	58	42
Mobile electronics:										
ID ⁴ cassette/radio combo	4,030	3,989	4,053	4,256	4,098	789	814	848	905	865
Radios only	867	757	687	684	551	81	65	59	58	49
Car speakers (in pairs)	15,162	15,010	16,241	17,540	18,294	979	942	993	1,070	1,104
Radar detectors	1,227	1,688	1,834	1,953	2,051	187	263	277	295	341
Cellular telephones	(NA)	265	331	700	1,081	(NA)	423	509	578	667
Auto security systems	(NA)	1,028	1,371	1,759	2,023	(NA)	257	308	358	360
Home office:										
Electronic typewriters	850	2,038	2,186	2,481	2,580	185	458	533	672	740
Personal computers	4,025	3,075	3,598	4,192	4,737	(NA)	2,983	3,313	3,810	4,694
Facsimile machines	(NA)	181	525	900	1,400	(NA)	584	1,335	1,335	1,540
Blank floppy disks	205,063	425,000	545,403	651,757	706,505	(NA)	680	764	878	883
Satellite earth stations	630	255	252	277	294	1,366	513	508	624	657
Telephone equipment:										
Corded telephones	22,403	23,768	21,900	20,805	20,493	983	1,006	840	808	798
Cordless telephones	4,076	4,279	5,450	8,000	9,200	380	410	455	680	796
Telephone answering equipment	3,306	4,856	7,332	10,100	12,160	371	535	654	873	986

NA Not available. ¹ 6.5 cu. ft. and over. ² 10 cu. ft. and over. ³ Includes others not shown separately. ⁴ ID=in dash.

Source: Dealerscope Merchandising, Philadelphia, PA, 68th Annual Statistical and Marketing Report.



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 usually appear in the July issues of the *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 and wholesale trade have been taken at various intervals since 1929. Limited coverage of the service industries started in 1933. Beginning with the 1967 census, legislation provides for a census of each area to be conducted every 5 years (for years ending in "2" and "7").

The industries covered in the censuses and surveys of business are those classified in three 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 wide range of services for individuals and for businesses.

Beginning with the 1954 Censuses of Retail Trade and Service Industries, data for nonemployer establishments are included and published separately. The census of wholesale trade excludes establishments with no paid employees. Beginning in 1977, sales taxes and finance charges are excluded from 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 and 1987, data were 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. Beginning 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, inventory/sales ratios, 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 business. 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 kinds of business 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 sampling units 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. 1349. Gross National Product in Domestic Trade and Service Industries in Current and Constant (1982) Dollars: 1980 to 1988

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

INDUSTRY	1980	1981	1982	1983	1984	1985	1986	1987	1988
CURRENT DOLLARS									
Wholesale and retail trade	438.8	483.1	506.5	542.9	614.0	658.2	682.6	724.8	780.8
Percent of gross national product	16.1	15.8	16.0	15.9	16.3	16.4	16.1	16.0	16.0
Wholesale trade	193.9	214.0	219.0	226.5	263.1	280.8	282.0	300.9	326.1
Retail trade	245.0	269.1	287.5	316.4	350.8	377.4	400.5	423.9	454.7
Services	374.0	422.6	463.6	515.5	580.2	648.1	717.6	792.7	872.5
Percent of gross national product	13.7	13.8	14.6	15.1	15.4	16.1	17.0	17.5	17.9
Hotels and other lodging places	18.9	20.4	21.7	24.3	27.0	30.4	32.4	36.3	40.9
Personal services	18.8	19.5	21.3	23.1	25.0	29.7	31.9	34.0	36.9
Business services	68.8	79.9	90.7	104.8	125.3	145.8	163.6	180.9	200.3
Auto repair, services, and garages	21.1	23.1	23.5	26.1	29.2	33.2	36.3	38.6	41.8
Miscellaneous repair services	9.2	9.2	9.6	10.8	12.8	12.4	13.7	14.1	15.9
Motion pictures	5.0	5.5	6.3	6.6	7.3	9.0	10.5	11.4	12.2
Amusement and recreation services	12.4	14.0	15.1	16.8	17.8	19.9	22.1	24.2	26.5
Health services	108.1	124.7	142.0	156.1	169.0	184.6	200.3	226.8	248.5
Legal services	23.3	25.9	30.6	35.0	41.6	46.3	54.1	59.9	67.4
Educational services	16.0	17.5	19.1	21.0	23.5	25.8	27.6	30.0	33.1
Social services, membership organizations	26.3	28.4	30.5	32.8	35.7	38.3	41.7	45.2	50.1
Miscellaneous professional services	39.6	47.5	45.7	49.9	56.9	63.6	74.4	81.9	89.4
Private households	6.6	7.0	7.6	8.2	8.9	9.0	9.1	9.2	9.4
CONSTANT (1982) DOLLARS									
Wholesale and retail trade	481.8	499.0	506.5	530.0	589.0	621.5	662.2	659.4	694.0
Percent of gross national product	15.1	15.4	16.0	16.2	16.8	17.2	17.8	17.1	17.2
Wholesale trade	200.1	212.7	219.0	222.2	254.9	267.1	284.7	289.4	296.8
Retail trade	281.7	286.4	287.5	307.8	334.0	354.4	377.5	370.0	397.1
Services	450.9	483.0	463.6	480.4	509.7	538.6	565.8	591.4	613.9
Percent of gross national product	14.1	14.2	14.6	14.6	14.6	14.9	15.2	15.3	15.3
Hotels and other lodging places	22.3	21.7	21.7	23.6	24.3	26.0	26.6	28.4	30.1
Personal services	22.3	21.1	21.3	21.7	22.2	25.2	25.9	26.4	27.2
Business services	83.9	88.5	90.7	97.3	111.0	120.8	129.8	139.7	147.2
Auto repair, services, and garages	24.8	25.2	23.5	24.5	26.2	28.7	29.0	28.9	29.5
Miscellaneous repair services	10.6	9.9	9.6	10.5	11.8	10.7	11.2	11.1	12.0
Motion pictures	5.7	5.8	6.3	6.2	6.3	7.5	8.6	8.1	8.4
Amusement and recreation services	13.4	14.8	15.1	16.1	16.3	17.5	18.4	19.6	21.1
Health services	133.8	138.1	142.0	143.7	145.0	148.6	150.5	158.7	159.9
Legal services	30.6	30.1	30.6	30.1	32.5	33.5	36.7	36.8	39.6
Educational services	18.9	18.7	19.1	19.9	21.1	22.1	22.4	23.1	23.8
Social services, membership organizations	30.2	30.5	30.5	31.1	32.3	33.3	34.7	35.9	38.0
Miscellaneous professional services	47.0	51.3	45.7	47.7	52.1	56.0	63.3	66.0	68.2
Private households	7.4	7.3	7.6	8.1	8.8	8.8	8.8	8.8	8.8

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, January 1991.

No. 1350. Persons Working in Domestic Trade and Service Industries: 1970 to 1989

[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	1982	1983	1984	1985	1986	1987	1988	1989
Wholesale and retail.	14,889	19,395	19,419	19,615	21,040	21,747	22,215	22,943	23,558	24,375
Wholesale trade	4,123	5,396	5,409	5,409	5,697	5,804	5,834	5,991	6,149	6,399
Retail trade	10,766	13,999	14,010	14,406	15,343	15,943	16,381	16,952	17,409	17,976
Services	13,380	19,526	20,729	21,571	22,875	23,929	24,787	26,148	27,394	28,614
Hotels and other lodging places	1,003	1,261	1,340	1,382	1,461	1,571	1,598	1,670	1,774	1,834
Personal services	1,341	1,330	1,334	1,379	1,442	1,503	1,523	1,590	1,709	1,699
Business services	1,666	3,077	3,345	3,703	4,273	4,650	5,003	5,479	5,938	6,345
Auto repair, services, and garages	508	838	909	927	1,022	1,090	1,129	1,155	1,203	1,231
Miscellaneous repair services	316	475	515	523	548	555	541	543	563	575
Motion pictures	181	249	266	274	280	283	296	304	312	336
Amusement and recreation services	402	683	702	717	748	751	765	788	815	890
Health services	2,905	5,218	5,677	5,821	5,971	6,142	6,350	6,645	6,774	7,122
Legal services	401	690	786	830	883	921	952	1,047	1,098	1,134
Educational services	1,001	1,241	1,311	1,360	1,387	1,470	1,481	1,532	1,554	1,588
Social services and membership organizations	1,756	2,361	2,382	2,470	2,540	2,607	2,725	2,915	3,107	3,213
Social services	(NA)	1,030	1,063	1,162	1,224	1,302	1,403	1,517	1,615	1,688
Membership organizations	(NA)	1,331	1,319	1,308	1,316	1,305	1,322	1,398	1,492	1,525
Miscellaneous professional services	746	1,348	1,435	1,447	1,541	1,633	1,671	1,744	1,830	1,960
Private households	1,154	755	727	738	779	753	753	734	717	687

NA Not available.

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. 1351. Retail Trade—Summary: 1958 to 1987

[1972 through 1982 based on 1972 Standard Industrial Classification (SIC) code; 1987 based on 1987 SIC code. Prior years based on earlier editions of SIC. Comparability of data over time is affected by changes in the SIC code. 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	1,000	(NA)	1,532	1,577	1,665	1,567	1,573	1,992
Multiunit establishments ^{1,2}	1,000	163	220	220	301	343	415	498
Establishments, total	1,000	1,795	1,708	1,763	1,780	1,855	1,923	2,420
With payroll	1,000	1,185	1,206	1,192	1,265	1,304	1,324	1,504
With sales of \$1,000,000 or more	1,000	(NA)	(NA)	(NA)	74	119	193	259
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	244	310	457	723	1,066	1,540
By establishments with payroll	Bil. dol.	188	233	295	440	700	1,039	1,493
By multiunit establishments ²	Bil. dol.	67	90	124	202	341	567	844
Percent of total sales	Percent	33.5	36.6	39.8	44.0	47.1	53.2	56.5
Percent of multiunit sales by 100-or-more establishment multiunits ^{2,5}	Percent	42.4	43.1	46.7	55.8	55.8	54.5	54.6
In 1982 dollars ⁶	Bil. dol.	(NA)	645	764	943	1,054	1,066	1,393
Percent of sales by corporations	Percent	53.0	61.9	67.4	76.4	79.8	84.6	88.9
Per capita sales: ⁷								
Current dollars	Dollars	1,156	1,296	1,571	2,186	3,291	4,599	6,328
Constant (1982) dollars ⁶	Dollars	(NA)	3,423	3,869	4,508	4,798	4,599	5,722
Sales as percent of personal income	Percent	³ 55.5	52.4	49.3	48.1	46.9	41.5	40.9
Sales, inside metropolitan areas ⁸	Bil. dol.	³ 133	170	221	(NA)	552	845	⁹ 1,230
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	177.5
Percent of sales	Percent	¹⁰ 11.5	11.3	11.7	12.1	11.9	11.6	11.5
Paid employees, March 12 pay period ¹⁰	1,000	7,942	8,410	9,381	11,211	13,040	14,468	17,780

NA Not available. ¹ Through 1982, represents the number of establishments and firms in business at the end of the year. For 1987, represents the number of establishments and firms in business at any time during year. ² 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. ³ Excludes Alaska and Hawaii. ⁴ Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*. Beginning 1982, CPI-U, see text, section 14. ⁵ Prior to 1982, data provided for percent of multiunit sales by 101-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 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-S-2; *1982*, RC82-A-52 and RC82-I-1; and *1987*, RC87-A-52, RC87-N-1, and RC87-S-1.

No. 1352. Retail Trade Establishments—Number, Sales, Payroll, and Employees, by Kind of Business: 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]

1987 SIC code ¹	KIND OF BUSINESS	ALL ESTABLISHMENTS		ESTABLISHMENTS WITH PAYROLL				
		Num- ber ² (1,000)	Sales (mil. dol.)	Num- ber ² (1,000)	Sales		Annual payroll (mil. dol.)	Paid employ- ees ³ (1,000)
					Total (mil. dol.)	Per estab- lish- ment (\$1,000)		
	Retail trade, total	4,240	41,540,263	1,504	1,493,308	993	177,548	17,780
52	Building materials, garden supplies stores	107	83,454	74	81,487	1,104	9,780	668
521, 3	Building materials, supply stores	51	61,302	38	60,525	1,593	6,929	432
525	Hardware stores	27	11,036	20	10,535	525	1,564	138
526	Retail nurseries, lawn and garden supply stores	21	5,809	11	5,411	506	822	71
527	Mobile home dealers	8	5,307	5	5,015	993	445	27
53	General merchandise stores	57	181,971	35	181,147	5,112	19,586	2,003
531	Department stores (incl. leased depts.) ^{5, 6}	10	153,679	10	153,679	15,305	(NA)	(NA)
531	Department stores (excl. leased depts.) ^{5, 6}	10	144,017	10	144,017	14,343	16,365	1,651
533	Variety stores	21	7,134	10	6,762	649	926	121
539	Misc. general merchandise stores	26	30,819	15	30,368	2,029	2,294	231
54	Food stores	290	309,460	191	301,847	1,583	29,819	2,855
541	Grocery stores	197	290,979	138	285,481	2,075	27,084	2,502
542	Meat and fish (seafood) markets	(NA)	(NA)	11	5,616	494	606	59
546	Retail bakeries	31	5,194	22	4,871	224	1,353	185
543	Fruit and vegetable markets	(NA)	(NA)	3	1,802	551	186	20
544	Candy, nut, confectionery stores	(NA)	(NA)	6	1,182	193	109	31
55 ex. 554	Automotive dealers	194	342,896	103	333,420	3,246	28,688	1,373
551	New and used car dealers	28	280,529	28	280,529	9,908	22,205	940
552	Used car dealers	75	18,295	15	10,849	726	809	55
553	Auto and home supply stores	67	26,622	46	25,460	551	4,152	286
555	Boat dealers	(NA)	(NA)	5	6,824	1,319	620	35
556	Recreational vehicle dealers	(NA)	(NA)	3	5,538	1,842	437	25
557	Motorcycle dealers	(NA)	(NA)	4	3,475	869	382	27
554	Gasoline service stations	137	104,769	115	101,997	869	6,414	702
56	Apparel and accessory stores	197	79,322	149	77,391	518	9,725	1,121
561	Men's and boys' clothing stores	19	9,017	17	8,869	537	1,361	115
562, 3	Women's clothing, specialty stores	77	29,208	60	28,531	477	3,519	455
562	Women's clothing stores	64	26,366	52	25,868	495	3,150	419
565	Family clothing stores	27	21,472	18	21,117	1,145	2,362	268
568	Shoe stores	43	14,594	39	14,411	365	1,880	205
564	Children's and infants' wear stores	(NA)	(NA)	6	2,101	342	245	37
57	Furniture and home furnishings stores	180	78,072	110	74,783	682	9,904	703
5712	Furniture stores	46	28,740	33	25,997	793	3,828	247
5713, 4, 9	Home furnishings stores	63	17,737	32	16,374	512	2,369	176
572	Household appliance stores	17	8,642	11	8,332	744	953	65
573	Radio, television, computer, and music stores	54	24,953	34	24,080	714	2,734	215
5734	Computer and software stores	8	2,799	4	2,651	687	325	22
58	Eating and drinking places	490	153,462	391	148,776	380	38,582	6,100
5812	Eating places	402	142,627	333	139,282	419	36,633	5,787
5812 pt.	Restaurants and lunchrooms	(NA)	(NA)	155	66,364	429	18,796	2,822
5812 pt.	Refreshment places	(NA)	(NA)	138	56,870	412	13,269	2,352
5813	Drinking places	88	10,834	59	9,495	162	1,950	313
591	Drug and proprietary stores	56	54,142	52	53,824	1,031	6,476	574
59 ex. 591	Miscellaneous retail stores	4710	4152,716	284	138,636	489	18,594	1,682
592	Liquor stores	45	19,826	35	18,597	528	1,454	157
593	Used merchandise stores	89	5,217	15	3,502	236	663	69
594	Misc. shopping goods stores	263	53,777	123	49,460	403	6,481	706
5941	Sporting goods, bicycle shops	50	11,256	22	10,077	467	1,218	121
5942	Book stores	19	5,338	11	5,116	462	581	72
5943	Stationery stores	7	1,942	5	1,814	376	287	27
5944	Jewelry stores	50	12,925	28	11,994	428	1,921	163
5945	Hobby, toy, and game shops	28	7,451	10	7,031	730	614	76
5946	Camera, photo supply stores	6	2,383	4	2,294	605	276	21
5947	Gift, novelty, souvenir shops	79	8,446	32	7,459	231	1,055	151
5949	Sewing, needlework, and piece goods stores	22	3,138	10	2,836	294	406	65
596	Nonstore retailers	466	434,878	23	33,994	1,470	4,523	318
5961	Catalog and mail-order houses	31	20,765	7	20,347	2,815	1,932	123
5962	Merchandising machine operators	24	6,258	5	5,692	1,074	1,090	74
5963	Direct selling establishments	411	47,855	11	7,855	746	1,501	121
598	Fuel dealers	17	14,503	13	14,198	1,114	1,824	99
5982	Florists	50	5,441	27	4,810	180	1,019	125
5995	Optical goods stores	15	3,480	14	3,415	251	811	54

NA Not available. 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 For pay period including March 12. ⁴ Excludes nonemployer direct sellers, SIC 5963. ⁵ Includes sales from catalog order desks. ⁶ Establishments defined as department stores with 50 employees or more. ⁷ Includes other kinds of businesses, not shown separately.

Source: U.S. Bureau of the Census, *1987 Census of Retail Trade*, RC87-A-52 and RC87-N-1.

No. 1353. Retail Trade—Establishments, Employees, and Payroll: 1987 and 1988

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

1987 SIC code ¹	KIND OF BUSINESS	ESTABLISHMENTS (1,000)						Em- ploy- ees, 1988 (1,000)	Payroll, 1988 (bil. dol.)
		1987	1988						
			Total	1-4 employ- ees	5-19 employ- ees	20-99 employ- ees	100 or more employ- ees		
(G)	Retail trade, total	1,514.0	1,472.9	661.3	589.9	199.5	22.1	18,802	215.9
52	Building materials and garden supplies ²	73.0	71.4	33.5	30.3	7.2	0.5	679	10.8
521	Lumber and other building materials	(NA)	27.1	9.4	12.4	4.8	0.5	386	6.8
523	Paint, glass, and wallpaper stores	(NA)	10.2	6.1	3.9	0.3	(Z)	53	0.9
525	Hardware stores	(NA)	19.1	9.7	8.3	1.1	(Z)	140	1.7
526	Retail nurseries and garden stores	(NA)	10.4	5.6	3.9	0.9	(Z)	76	0.9
53	General merchandise stores ²	36.7	35.1	9.8	10.2	7.6	7.5	2,066	20.1
531	Department stores	(NA)	10.0	0.2	-	2.7	7.1	1,687	16.4
533	Variety stores	(NA)	10.2	2.9	5.6	1.5	0.1	118	0.9
539	Misc. general merchandise stores	(NA)	14.6	6.4	4.5	3.3	0.4	261	2.8
54	Food stores	197.1	183.2	76.7	73.8	27.3	5.4	2,886	31.7
541	Grocery stores	(NA)	132.3	50.0	52.8	24.1	5.4	2,544	28.7
546	Retail bakeries	(NA)	20.4	6.0	10.3	2.0	(Z)	178	1.4
55	Automotive dealers and service stations ²	209.8	208.3	93.5	92.6	20.6	1.7	2,076	38.7
551	New and used car dealers	(NA)	27.4	3.6	7.8	14.5	1.5	953	24.5
553	Auto and home supply stores	(NA)	44.2	19.7	23.0	1.5	(Z)	287	4.5
554	Gasoline service stations	(NA)	108.1	51.8	52.8	3.4	0.1	683	7.0
56	Apparel and accessory stores ²	149.6	148.3	66.8	72.2	8.9	0.4	1,157	11.0
561	Men's and boys' clothing and furnishings	(NA)	15.4	6.6	8.0	0.8	(Z)	115	1.5
562	Women's ready-to-wear stores	(NA)	52.8	19.6	29.5	3.5	0.1	451	3.7
565	Family clothing stores	(NA)	17.8	6.1	8.1	3.4	0.2	265	2.5
566	Shoe stores	(NA)	36.5	19.5	18.5	0.4	(Z)	203	2.0
57	Furniture and home furnishings stores ²	108.0	105.0	56.3	43.0	5.5	0.2	712	11.2
571	Furniture and home furnishings stores	(NA)	61.4	32.6	25.3	3.4	0.1	427	6.8
5712	Furniture stores	(NA)	31.3	15.1	13.9	2.2	0.1	247	4.2
572	Household appliance stores	(NA)	10.4	6.2	3.7	0.5	(Z)	63	1.0
5732	Radio and television stores	(NA)	32.3	16.8	13.9	1.6	0.1	220	3.3
58	Eating and drinking places ²	388.4	378.5	138.8	136.2	99.6	3.8	6,097	43.2
5812	Eating places	(NA)	317.8	97.7	119.9	96.4	3.8	5,762	40.7
5813	Drinking places	(NA)	52.5	35.1	14.8	2.6	0.1	295	2.0
59	Miscellaneous retail ²	337.7	326.6	180.1	126.3	19.5	0.8	2,317	28.5
591	Drug stores and proprietary stores	(NA)	50.8	14.4	28.6	7.7	0.1	577	7.0
592	Liquor stores	(NA)	31.9	20.8	10.6	0.6	(Z)	148	1.5
5941	Sporting goods and bicycle shops	(NA)	20.6	12.6	6.8	1.2	(Z)	128	1.4
5944	Jewelry stores	(NA)	27.0	14.2	11.9	0.8	(Z)	160	2.2
5947	Gift, novelty, and souvenir stores	(NA)	30.2	17.6	11.9	0.7	(Z)	157	1.2
5961	Mail order houses	(NA)	6.9	3.6	2.6	0.6	0.2	132	2.2
5963	Direct selling establishments	(NA)	9.3	4.6	3.2	1.5	0.1	121	1.6
5983	Florists	(NA)	25.3	16.0	8.6	0.6	(Z)	125	1.1
5992	Optical goods stores	(NA)	13.7	9.9	3.3	0.4	(Z)	61	1.0
5995	Administrative and auxiliary	13.7	16.4	5.8	5.3	3.5	1.8	811	20.8

- Represents zero. NA Not available. Z Less than 50. ¹ Based on 1987 Standard Industrial Classification; see text, section 13. ² Includes industries not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns, 1988*.

No. 1354. Largest Retailing Companies—Sales, Net Income, Assets, and Employees, by Sales Group: 1980 to 1989

[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. Minus sign (-) indicates net loss]

RANK BY SALES GROUP	SALES ¹			NET INCOME ²			ASSETS ³			EMPLOYEES ⁴		
	1980	1985	1989	1980	1985	1989	1980	1985	1989	1980	1985	1989
50 largest	200.8	319.3	388.1	3.9	7.6	5.0	96.3	195.0	241.5	3,240	3,887	3,958
Top 10	109.3	168.4	217.0	1.9	3.4	4.8	58.0	114.8	154.3	1,614	1,821	2,131
11th-20th	40.6	63.4	71.6	0.5	1.3	0.6	16.4	34.0	35.1	591	720	842
21st-30th	23.8	41.8	46.2	0.7	1.5	-0.3	12.3	25.5	22.6	569	764	412
31st-40th	15.7	26.7	29.7	0.5	0.6	-0.4	7.3	12.5	17.7	324	317	327
41st-50th	11.5	19.1	23.7	0.3	0.8	0.2	4.3	8.2	11.8	143	245	245
Percent of total:												
Top 10	54.4	52.7	55.9	48.7	44.3	(X)	58.2	58.9	63.9	49.8	46.8	53.9
11th-20th	20.2	19.9	18.4	12.3	17.0	(X)	17.0	17.4	14.5	18.2	18.5	21.3
21st-30th	11.8	13.1	11.9	18.5	20.2	(X)	12.7	13.1	9.4	17.6	20.2	10.4
31st-40th	7.8	8.4	7.6	13.8	8.3	(X)	7.6	8.4	7.3	10.0	8.1	8.3
41st-50th	5.7	6.0	6.1	6.8	10.2	(X)	4.5	4.2	4.9	4.4	6.3	6.2

X Not applicable. 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. 1355. Retail Trade Sales—Summary: 1970 to 1990

[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	4,887
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	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	1,053.9	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	896.6	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	1,074.8	-3.4	4,730
1981	1,038.7	8.5	4,527	97.1	324.8	713.9	98.9	1,078.5	0.3	4,700
1982	1,069.4	3.0	4,616	100.0	336.2	733.2	103.3	1,069.4	-0.8	4,616
1983	1,170.8	9.5	5,008	109.5	391.6	779.3	112.1	1,145.6	7.1	4,900
1984	1,287.8	10.0	5,461	120.4	455.3	832.5	124.1	1,228.8	7.3	5,211
1985	1,375.7	6.8	5,782	128.6	498.8	876.9	129.8	1,285.7	4.6	5,404
1986	1,450.3	5.4	6,039	135.6	541.5	908.9	137.8	1,359.2	5.7	5,660
1987	1,542.1	6.3	6,364	144.2	576.6	965.5	147.2	1,394.3	2.6	5,754
1988	1,651.4	7.1	6,753	154.4	627.4	1,024.0	155.1	1,448.6	3.9	5,924
1989	1,741.7	5.5	7,057	162.9	652.2	1,089.6	164.4	1,473.6	1.7	5,970
1990	1,807.2	3.8	7,244	169.0	654.8	1,152.5	170.7	1,468.9	-0.5	5,880

¹ Change from immediate prior year. ² Based on Bureau of the Census estimates of resident population as of July 1. Estimates used here reflect the census of April 1, 1990 and are subject to change. ³ Excludes leased departments. ⁴ Based on implicit price deflators for retail sales supplied by U.S. Bureau of Economic Analysis.

No. 1356. Retail Trade—Sales, by Kind of Business: 1980 to 1990

[In billions of dollars. See headnote, table 1355. Based on Current Business Survey, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series T 245-271]

1972 SIC code ¹	KIND OF BUSINESS	1980	1984	1985	1986	1987	1988	1989	1990
	Retail trade, total	957.4	1,287.8	1,375.7	1,450.3	1,542.1	1,651.4	1,741.7	1,807.2
	Durable goods stores, total ²	299.2	455.3	498.8	541.5	576.6	627.4	652.2	654.8
55 exc. 554	Automotive dealers	164.1	273.4	303.3	326.3	342.9	371.6	383.6	382.0
551,2,5,6,7,9	Motor vehicle, misc. automotive dealers	146.2	250.3	278.1	301.2	316.3	341.8	353.8	351.0
551,2	Motor vehicle dealers	137.7	236.7	263.1	284.5	298.8	323.8	335.3	334.0
551	Motor vehicle dealers, franchised	130.5	225.9	251.6	270.4	280.5	302.4	309.7	308.4
553	Auto and home supply stores	18.0	23.1	25.2	25.1	26.6	29.7	29.8	31.0
52	Building materials, hardware, garden supply, mobile home dealers ²	50.8	67.1	71.2	77.1	83.5	91.2	92.7	92.5
521,3	Building materials, supply stores	35.0	47.1	50.8	56.5	61.3	66.6	67.0	66.8
525	Hardware stores	8.3	10.4	10.5	10.7	11.0	11.9	12.6	13.3
57	Furniture, home furnishings, equipment ²	44.2	61.4	68.3	75.7	78.1	85.4	91.5	93.0
571	Furniture, home furnishings stores	26.3	35.6	38.3	43.0	44.5	47.5	51.1	51.6
5722,32	Household appliance, radio, TV	14.0	21.5	25.1	27.0	27.1	30.5	32.4	33.0
	Nondurable goods stores, total ²	658.1	832.5	876.9	908.9	965.5	1,024.0	1,089.6	1,152.5
56	Apparel and accessory stores ²	49.3	64.3	70.2	75.6	79.3	84.9	91.4	94.7
561	Men's, boys' clothing, furnishings	7.7	8.2	8.5	8.6	9.0	9.4	9.5	9.5
562,3,8	Women's clothing, specialty stores, furriers	17.6	23.8	26.1	28.6	29.2	30.8	32.6	33.1
562	Women's ready-to-wear stores	15.9	21.2	23.6	25.7	26.4	27.5	29.3	29.8
565	Family clothing stores	10.8	16.4	17.8	19.3	21.5	23.6	25.8	28.0
566	Shoe stores	10.5	12.3	13.1	13.9	14.6	15.4	17.2	17.9
591	Drug and proprietary stores	31.0	44.0	47.0	50.5	54.1	57.4	62.5	66.6
58	Eating and drinking places	90.1	121.3	127.9	139.4	153.5	166.9	173.9	182.0
5812	Eating places	80.4	111.5	117.6	128.6	142.6	155.4	162.2	170.3
54	Food stores	220.2	271.9	285.1	297.0	309.5	326.5	345.1	362.4
541	Grocery stores	205.6	256.5	269.5	280.8	291.0	307.2	324.0	338.7
554	Gasoline service stations	94.1	107.6	113.3	102.1	104.8	107.9	117.8	131.7
53	General merchandise group stores	108.7	150.3	158.6	169.2	182.0	191.8	204.4	211.9
531	Department stores	88.3	124.1	129.8	137.8	147.2	155.1	164.4	170.7
533	Variety stores	7.8	8.7	8.5	7.4	7.1	7.2	7.4	7.3
539	Misc. gen. merchandise group stores ⁴	12.6	17.6	20.3	24.0	27.7	29.5	32.7	33.9
592	Liquor stores	16.9	18.3	19.5	19.9	19.8	19.6	20.0	20.8
596	Non-store retailers	22.6	27.8	28.3	30.3	35.9	41.2	45.2	50.3
5961 pt.	Mail-order houses (department store merchandise)	4.3	5.1	4.7	4.3	4.1	4.4	4.7	4.7

¹ Based on 1972 Standard Industrial Classification code; see text, section 13. ² Includes kinds of business, not shown separately. ³ Excludes leased departments. ⁴ Includes catalog showroom stores.

Source of tables 1355 and 1356: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Retail Sales and Inventories, January 1981 Through December 1990*, (BR/90-R), prior issues, and unpublished data.

No. 1357. Retail Trade—Sales of Multiunit Organizations, by Kind of Business: 1980 to 1990

[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]

1972 SIC code ¹	KIND OF BUSINESS	SALES (bil. dol.)								PERCENT OF TOTAL RETAIL SALES	
		1980	1985	1986	1987	1988	1989	1990	1980	1990	
	Total sales	357.2	514.3	537.6	572.3	608.4	648.4	685.9	37.3	38.0	
	Durable goods stores	34.2	54.6	58.8	66.1	72.9	77.1	81.1	11.4	12.4	
553	Auto and home supply stores	4.7	5.9	6.5	7.1	7.5	7.9	8.6	26.2	27.7	
	Nondurable goods stores	322.9	459.7	478.8	506.3	535.4	571.2	604.8	49.1	52.5	
56	Apparel and accessory stores	21.1	35.9	39.6	42.6	45.5	50.1	53.3	42.7	56.3	
562,3,8	Women's clothing specialty stores, furriers	8.3	13.6	15.2	16.0	16.4	18.0	18.8	47.1	56.7	
566	Shoe stores	5.3	7.7	8.6	8.9	9.6	10.8	11.3	50.8	63.2	
591	Drug and proprietary stores	16.8	27.9	29.4	31.8	33.8	37.5	41.9	54.3	61.2	
54	Food stores	119.8	162.5	168.6	176.1	185.1	193.0	202.9	54.4	56.0	
541	Grocery stores	118.1	160.2	166.4	173.9	182.7	190.4	200.0	57.4	59.1	
53	General merchandise group	98.5	145.9	156.0	166.2	176.3	187.5	194.5	59.6	61.8	
531	Department stores	84.9	125.7	133.7	142.7	150.1	158.9	165.5	96.1	96.9	
533	Variety stores	6.3	7.0	6.0	5.7	5.7	5.8	5.6	80.9	77.4	
539	Misc. general merchandise group stores	7.3	13.2	16.3	17.8	20.5	22.8	23.3	58.1	68.8	
5812	Eating places	22.6	33.8	36.4	39.7	42.0	44.4	46.0	28.1	27.0	

¹ Based on 1972 Standard Industrial Classification code; see text, section 13. ² Includes kinds of business not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Retail Sales and Inventories, January 1981 Through December 1990* (BR/90-R) and prior issues.

No. 1358. Retail Trade—Merchandise Inventories and Sales-Inventory Ratios, by Kind of Business: 1985 to 1989

[As of Dec. 31. Includes warehouses. See headnote, table 1355]

1972 SIC code ¹	KIND OF BUSINESS	INVENTORIES AT COST ² (bil. dol.)				SALES-INVENTORY RATIOS ³			
		1985	1987	1988	1989	1985	1987	1988	1989
	Total	176.9	203.3	215.0	233.0	7.8	7.6	7.7	7.5
	Total (excluding automotive dealers)	130.4	145.5	154.0	166.6	8.2	8.2	8.3	8.2
	Durable goods stores⁴	87.8	105.8	112.7	121.2	5.7	5.4	5.6	5.4
55 exc. 554	Automotive dealers	46.4	57.8	61.0	68.4	6.5	5.9	6.1	5.8
551,2,5,6,7,9	Motor vehicle and misc. automotive dealers	41.7	52.9	55.9	61.3	6.7	6.0	6.1	5.8
551,2	Motor vehicle dealers	38.2	48.8	51.2	56.4	6.9	6.1	6.3	5.9
551	Motor vehicle dealers (franchised)	36.5	46.0	48.2	52.7	6.9	6.1	6.3	5.9
553	Automotive and home supply stores	4.7	4.9	5.1	5.1	5.4	5.4	5.9	5.8
52	Building materials, hardware, garden supplies, mobile home dealers	13.1	14.2	15.2	15.9	5.5	5.9	6.0	5.8
521,3,5	Building materials, supply, hardware stores	11.2	12.1	12.8	13.4	5.5	6.0	6.1	6.0
521,3	Building materials and supply stores	8.4	9.3	10.0	10.4	6.0	6.6	6.7	6.5
525	Hardware stores	2.8	2.8	2.8	3.0	3.8	3.9	4.2	4.2
57	Furniture, home furnishings, equipment stores	13.7	15.0	16.1	17.0	5.0	5.2	5.3	5.4
571	Furniture, home furnishings	7.1	8.0	8.3	9.1	5.4	5.5	5.7	5.6
5712	Furniture stores	4.9	5.3	5.3	6.0	4.9	5.1	5.1	5.0
5722,32	Household appliance, radio, TV	5.2	5.2	5.8	5.7	4.8	5.2	5.2	5.7
5722	Household appliance stores	1.5	1.5	1.6	1.7	5.9	5.7	5.5	5.5
5944	Jewelry stores	4.6	5.2	5.9	5.9	2.4	2.5	2.4	2.4
	Nondurable goods stores⁴	89.1	97.4	102.4	111.8	9.8	9.9	10.0	9.7
56	Apparel and accessory stores	14.6	15.9	16.5	17.7	4.8	5.0	5.1	5.2
561	Men's, boys' clothing, furnishings	2.1	2.1	2.1	2.3	4.1	4.2	4.4	4.2
562	Women's ready-to-wear stores	3.8	4.3	4.3	4.4	6.2	6.2	6.5	6.7
565	Family clothing stores	3.7	4.2	4.4	5.0	4.8	5.2	5.3	5.2
566	Shoe stores	3.2	3.5	3.9	4.2	4.1	4.1	4.0	4.1
591	Drug and proprietary stores	8.8	10.1	10.5	11.8	5.4	5.4	5.4	5.3
58	Eating and drinking places	3.2	3.4	3.3	3.5	39.5	45.6	50.2	49.7
54	Food stores	19.5	20.0	21.8	23.4	14.6	15.5	14.9	14.7
541	Grocery stores	18.7	19.2	21.0	22.4	14.4	15.2	14.7	14.5
554	Gasoline service stations	3.3	3.1	3.0	3.5	34.2	33.5	35.8	33.2
53	General merchandise group stores	31.3	34.8	36.1	40.1	5.1	5.2	5.3	5.1
531,9	Dept. stores, misc. general merchandise stores	29.1	32.9	34.2	38.1	5.2	5.3	5.4	5.2
531	Department stores	24.0	26.6	27.9	31.2	5.4	5.5	5.6	5.3
533	Variety stores	2.1	1.8	1.9	2.0	4.0	3.9	3.8	3.7
592	Liquor stores	2.3	2.5	2.4	2.5	8.4	7.9	8.3	8.0

¹ Based on 1972 Standard Industrial Classification code; 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 business not shown separately.

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

No. 1359. Retail Trade—Sales by Broad Merchandise Lines: 1982 and 1987

[For establishments with payroll]

MERCHANDISE LINES	1982			1987			
	Estab- lish- ments (1,000)	Sales of specified merchandise lines		Estab- lish- ments (1,000)	Sales of specified merchandise lines		
		Total (mil. dol.)	Percent distrib- ution		Total (mil. dol.)	Percent distrib- ution	Percent of total sales of estab- lishments handling line
Retail trade, total	21,330	1,039,029	100.0	21,504	1,493,309	100.0	(X)
Groceries and other food	267	198,705	19.1	369	247,410	16.6	42.9
Meals and snacks	391	92,877	8.9	478	137,954	9.2	40.7
Alcoholic drinks	140	14,965	1.4	170	18,721	1.3	27.9
Packaged alcoholic beverages	157	25,633	2.5	179	29,651	2.0	11.3
Cigars, cigarettes, and tobacco	241	14,664	1.4	275	23,231	1.6	5.0
Drugs, health and beauty aids	187	42,337	4.1	219	68,040	4.6	13.2
Soaps, detergents, and household cleaners	(3)	(3)	(3)	116	9,902	0.7	3.3
Paper and related products	(3)	(3)	(3)	119	9,232	0.6	3.1
Men's, boys' wear, except footwear	104	29,461	2.8	117	41,647	2.8	16.9
Women's, girls' wear, except footwear	146	57,553	5.5	175	85,617	5.7	29.2
Footwear, except infant's and toddler's	112	17,017	1.6	111	22,732	1.5	11.4
Sewing, knitting, and needlework goods	45	4,132	0.4	37	4,155	0.3	4.7
Curtains, draperies, and dry goods	65	8,926	0.9	68	13,037	0.9	6.3
Major household appliances	61	11,337	1.1	66	17,571	1.2	10.6
Small electric appliances	70	4,381	0.4	80	6,245	0.4	2.6
TV's and video recorders and tapes	59	6,841	0.7	66	13,380	0.9	7.8
Audio equipment, musical instruments and supplies	74	11,279	1.1	86	16,944	1.1	8.2
Furniture and sleep equipment	68	19,086	1.8	79	29,843	2.0	14.4
Floor coverings	57	6,908	0.7	59	11,385	0.8	7.1
Computer hardware and software, and calculating equipment and supplies	(3)	(3)	(3)	30	5,828	0.4	4.8
Kitchenware and home furnishings	150	15,642	1.5	167	21,512	1.4	6.4
Jewelry	95	12,133	1.2	118	20,691	1.4	8.3
Photographic equipment and supplies	(3)	(3)	(3)	64	5,381	0.4	2.7
Toys, hobby goods, and games	(3)	(3)	(3)	106	12,917	0.9	5.4
Optical goods	21	1,851	0.2	29	3,717	0.2	5.0
Sporting goods	70	13,038	1.3	73	21,190	1.4	12.0
Recreational vehicles	6	2,957	0.3	9	6,092	0.4	14.4
Hardware, tools, plumbing, and electrical supplies	103	13,978	1.3	107	20,784	1.4	8.3
Lawn, garden equipment, and supplies	95	11,189	1.1	119	16,847	1.1	6.2
Lumber and building materials	74	32,179	3.1	65	45,491	3.0	33.3
Paint and related preservatives and supplies	5	3,795	0.4	57	7,103	0.5	5.7
Mobile homes	5	3,795	0.4	5	4,866	0.3	87.6
Cars, trucks, powered vehicles	49	139,687	13.4	51	251,243	16.8	84.0
Automotive fuels	156	89,288	8.6	151	87,432	5.9	55.6
Automotive lubricants	157	2,850	0.3	154	3,021	0.2	0.9
Automobile tires, batteries, accessories	166	31,050	3.0	158	37,734	2.5	8.1
Household fuels	21	14,791	1.4	26	12,450	0.8	46.1
Pets, pet food, and supplies	(3)	(3)	(3)	82	5,009	0.3	2.8
All other merchandise	269	52,892	5.1	261	37,211	2.5	9.2
Unclassified merchandise	147	5,451	0.5	161	6,708	0.4	2.3
Nonmerchandise receipts	249	30,355	2.9	342	52,381	3.5	8.2

X Not applicable. ¹ Excludes establishments not in business at end of year. ² Detail will not add to total because establishments may carry more than one merchandise line. ³ Included in "All other merchandise".

Source: U.S. Bureau of the Census, *Census of Retail Trade, 1982, and 1987, Merchandise Line Sales*, RC82-L and RC87-S-3.

No. 1360. Retail Trade—Summary of Establishments, by State: 1987

(Kind-of-business classification based on 1987 Standard Industrial Classification code; see text, section 13)

DIVISION AND STATE	Estab-lish-ments	Sales (mil. dol.)	Annual payroll (mil. dol.)	Paid employ-ees ¹ (1,000)	DIVISION AND STATE	Estab-lish-ments	Sales (mil. dol.)	Annual payroll (mil. dol.)	Paid employ-ees ¹ (1,000)
U.S.	2,419,641	1,540,263	177,548	17,780	VA	52,634	39,785	4,557	453
N.E.	137,866	101,632	11,900	1,115	WV	17,621	9,349	984	109
ME	15,242	8,940	959	92	NC	69,125	40,651	4,423	465
NH	12,928	10,212	1,122	102	SC	36,493	19,750	2,177	237
VT	7,981	4,177	473	47	GA	61,886	41,186	4,792	487
MA	58,623	45,997	5,483	530	FL	130,508	90,295	10,297	1,023
RI	10,276	6,521	772	76	E.S.C.	155,870	83,825	8,952	972
CT	32,816	25,785	3,081	268	KY	38,507	19,872	2,132	244
M.A.	354,778	236,566	27,338	2,564	TN	50,423	29,694	3,198	338
NY	171,579	106,453	12,774	1,150	AL	40,218	22,688	2,357	250
NJ	74,524	58,326	6,467	566	MS	26,522	11,991	1,265	140
PA	118,675	73,787	8,097	848	W.S.C.	277,131	152,359	17,171	1,798
E.N.C.	381,109	255,197	29,029	3,081	AR	27,040	12,319	1,246	139
OH	96,973	64,705	7,434	804	LA	40,465	22,446	2,570	278
IN	53,633	33,992	3,727	412	OK	35,949	16,913	1,859	207
IL	98,468	69,937	8,078	820	TX	173,677	100,682	11,496	1,174
MI	80,743	58,026	6,584	673	Mt.	134,395	80,171	9,487	977
WI	50,292	28,537	3,206	372	MT	10,720	4,511	503	57
W.N.C.	189,743	105,042	11,685	1,317	ID	10,953	5,082	556	63
MN	42,874	28,008	3,086	347	WY	6,023	2,614	308	33
IA	32,338	15,581	1,705	204	CO	36,131	21,287	2,668	268
MO	52,540	31,142	3,538	376	NM	15,168	8,202	941	105
ND	7,803	3,849	408	48	AZ	31,519	22,360	2,624	261
SD	8,736	3,822	408	49	UT	13,827	8,620	963	109
NE	17,896	8,776	970	118	NV	10,054	7,495	924	81
KS	27,556	13,863	1,570	175	Pac.	360,529	243,233	29,661	2,693
S.A.	418,420	282,239	32,326	3,263	WA	44,759	27,939	3,402	329
DE	6,380	5,077	568	56	OR	29,488	17,340	2,027	204
MD	39,495	32,680	3,945	378	CA	268,873	185,959	22,732	2,022
DC	4,478	3,465	575	55	AK	6,266	3,728	484	36
					HI	11,143	8,267	1,016	102

¹ 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; and Nonemployer Statistics Series, RC87-N-1 to 4.

No. 1361. Retail Trade—Sales, by Metropolitan Area: 1987

[Covers only establishments with payroll. Areas as defined by U.S. Office of Management and Budget, June 30, 1987. CMSA=consolidated metropolitan statistical area. MSA=metropolitan statistical area. NECMA=New England county metropolitan area. For definition, see Appendix I]

METROPOLITAN AREAS RANKED BY VOLUME OF SALES	Total sales (mil. dol.)	Sales per household ¹ (dol.)	METROPOLITAN AREAS RANKED BY VOLUME OF SALES PER HOUSEHOLD	Total sales (mil. dol.)	Sales per household ¹ (dol.)
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA ²	112,286	16,580	St. Cloud, MN MSA	1,894	32,711
Los Angeles-Anaheim-Riverside, CA CMSA	88,645	18,174	Portland, ME NECMA	2,634	29,467
Chicago-Gary-Lake County, IL-IN-WI CMSA	50,221	17,040	Manchester-Nashua, NH NECMA	3,101	26,079
San Francisco-Oakland-San Jose, CA CMSA	41,889	18,125	Portsmouth-Dover-Rochester, NH NECMA	3,126	25,964
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	38,362	17,790	Terre Haute, IN MSA	1,264	25,592
Detroit-Ann Arbor, MI CMSA	29,974	17,630	Bridgeport-Stamford-Norwalk-Danbury, CT NECMA	7,273	24,274
Boston-Lawrence-Salem-Lowell-Brockton, MA NECMA	28,824	20,700	Honolulu, HI MSA	6,080	23,187
Washington, DC-MD-VA MSA	27,984	20,636	Anchorage, AK MSA	1,952	22,944
Dallas-Fort Worth, TX CMSA	26,866	19,541	Bangor, ME NECMA	1,116	22,828
Miami-Fort Lauderdale, FL CMSA	23,188	19,165	Burlington, VT NECMA	1,088	22,658
Houston-Galveston-Brazoria, TX CMSA	22,089	16,632	Rochester, MN MSA	823	22,373
Atlanta, GA MSA	20,714	20,938	Atlantic City, NJ MSA	2,693	22,182
Minneapolis-St. Paul, MN-WI MSA	16,762	18,927	Orlando, FL MSA	8,095	22,124
Cleveland-Akron-Lorain, OH CMSA	16,618	15,786	Rapid City, SD MSA	655	21,904
Seattle-Tacoma, WA CMSA	16,030	17,189	Grand Forks, ND MSA	519	21,441

¹ Based on number of households estimated as of July 1, 1987. ² Includes Bridgeport-Stamford-Norwalk-Danbury, CT NECMA.

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

No. 1362. Retail Sales—

[In millions of dollars, except as indicated. Kind-of-business classification based on

REGION, DIVISION, AND STATE	ALL STORES ¹				FOOD STORES				GENERAL MERCHANDISE STORES			
	1987, total	1989			Total		Supermarkets		Total		Department stores	
		Total	Sales per household ²		1987	1989	1987	1989	1987	1989	1987	1989
			Amount (dol.)	Percent change, 1987- 1989								
U.S.	1,540,263	1,722,086	18,534	8.3	309,433	349,811	290,552	328,415	182,257	203,280	144,367	161,133
Northeast	338,197	379,036	18,785	9.8	66,778	78,279	60,828	71,343	36,754	39,131	30,011	31,956
N.E.	101,832	114,023	23,180	9.2	18,752	22,615	17,151	20,684	10,864	11,207	8,445	8,889
ME	8,940	10,103	21,542	8.0	1,855	2,222	1,756	2,102	822	874	570	604
NH	10,212	11,509	27,866	6.7	1,944	2,331	1,851	2,219	1,185	1,295	847	927
VT	4,177	4,729	21,894	6.9	862	1,037	812	977	304	322	211	223
MA	45,997	51,106	22,866	8.9	8,266	9,943	7,419	8,928	4,948	4,935	3,917	3,910
RI	6,521	7,383	18,635	11.1	1,212	1,484	1,056	1,293	776	820	611	647
CT	25,785	29,193	24,106	11.2	4,613	5,599	4,256	5,166	2,629	2,961	2,288	2,578
M.A.	236,566	265,013	18,612	10.0	48,026	55,664	43,674	50,595	26,090	27,924	21,565	23,067
NY	106,453	122,453	17,895	13.1	21,920	25,700	19,478	22,884	11,540	12,564	9,246	10,049
NJ	56,326	60,972	21,334	6.3	11,369	12,904	10,479	11,903	5,742	6,162	4,884	5,251
PA	73,787	81,589	17,979	8.4	14,837	17,060	13,720	15,772	8,808	9,198	7,435	7,767
Midwest	360,239	403,121	17,744	9.2	68,152	75,679	63,974	71,035	45,692	52,118	37,656	42,991
E.N.C.	255,197	284,608	17,916	8.9	47,744	52,779	44,574	49,277	32,010	36,406	26,810	30,530
OH	64,705	69,923	18,817	5.6	13,221	14,076	12,428	13,238	8,374	9,186	6,882	7,545
IN	33,992	37,143	17,670	6.5	6,207	6,489	5,911	6,179	4,086	4,486	3,254	3,575
IL	69,937	78,949	18,066	10.4	12,724	14,488	11,843	13,484	8,071	9,272	6,857	7,877
MI	58,026	64,943	18,967	9.7	10,136	11,299	9,289	10,361	6,065	6,282	7,119	8,207
WI	28,537	33,649	18,268	14.3	5,456	6,427	5,104	6,014	3,414	4,179	2,718	3,327
W.N.C.	105,042	118,513	17,344	10.0	20,408	22,899	19,400	21,758	13,682	15,712	10,846	12,461
MN	28,008	32,208	19,603	10.9	5,008	5,743	4,737	5,434	3,767	4,438	2,796	3,291
IA	15,581	17,801	16,227	11.9	3,368	3,980	3,228	3,814	1,945	2,163	1,526	1,695
MO	31,142	34,070	17,138	6.8	5,977	6,329	5,724	6,064	4,184	4,684	3,535	3,966
ND	3,848	4,409	17,850	14.1	700	801	672	769	501	577	386	446
SD	3,822	4,366	16,109	11.7	757	880	725	844	392	466	294	350
NE	8,776	10,001	16,078	11.2	1,719	1,996	1,538	1,779	1,090	1,237	870	990
KS	13,863	15,659	16,227	10.3	2,678	3,169	2,775	3,054	1,802	2,146	1,440	1,724
South	518,423	572,898	17,924	6.8	107,316	120,205	102,648	114,995	61,502	70,214	48,012	54,857
S.A.	282,239	306,821	18,734	3.9	55,731	61,962	53,076	59,012	31,379	35,759	24,707	28,195
DE	5,077	5,586	22,343	4.7	918	1,040	851	965	698	820	606	712
MD	32,680	35,045	20,269	2.7	6,222	6,857	5,844	6,447	3,750	4,150	2,993	3,326
DC	3,465	3,812	15,819	13.7	597	658	537	592	315	378	272	326
VA	39,785	44,840	19,719	7.6	8,183	9,344	7,924	9,050	4,330	5,138	3,358	4,002
WV	9,349	10,204	14,412	9.1	2,195	2,347	2,083	2,227	1,319	1,507	884	1,008
NC	40,651	44,059	17,638	3.7	8,109	8,776	7,862	8,507	4,062	4,727	2,999	3,498
SC	19,750	21,713	17,440	5.9	4,222	4,718	4,085	4,565	2,030	2,378	1,533	1,799
GA	41,186	43,961	18,612	2.0	7,902	8,418	7,636	8,137	4,921	5,639	3,987	4,562
FL	90,295	97,600	19,243	1.9	17,385	19,803	16,254	18,522	9,953	11,023	8,076	8,961
E.S.C.	83,825	91,924	16,054	6.9	17,781	18,199	17,071	17,480	10,735	11,994	6,282	9,257
KY	19,872	22,466	16,093	10.7	4,437	4,667	4,276	4,498	2,581	2,969	1,985	2,290
TN	29,694	30,909	16,423	0.7	5,842	5,645	5,583	5,397	3,823	3,999	3,012	3,157
AL	22,268	25,123	16,539	10.1	4,638	4,885	4,443	4,682	2,680	3,073	2,152	2,470
MS	11,991	13,426	14,453	9.7	2,864	3,002	2,770	2,904	1,650	1,953	1,133	1,341
W.S.C.	152,359	174,152	17,666	12.0	33,804	40,044	32,501	38,504	19,389	22,461	15,023	17,404
AR	12,319	14,401	15,791	14.9	2,605	3,188	2,523	3,087	1,731	2,084	1,437	1,733
LA	22,446	26,522	16,980	18.1	5,561	6,786	5,333	6,508	3,044	3,632	2,272	2,707
OK	16,913	19,852	15,882	16.7	3,781	4,619	3,614	4,415	2,097	2,441	1,678	1,959
TX	100,682	113,376	18,483	9.4	21,857	25,451	21,030	24,493	12,517	14,304	9,636	11,005
West	323,404	367,031	19,238	8.3	67,188	75,647	63,102	71,041	38,309	41,817	28,688	31,329
Mt.	80,171	86,518	17,440	3.9	17,435	18,785	16,785	18,087	9,018	10,096	6,771	7,591
MT	4,511	4,904	15,974	7.3	1,052	1,161	1,014	1,119	427	463	325	352
ID	5,082	5,514	14,902	5.0	1,163	1,259	1,128	1,220	488	514	366	384
WY	2,614	2,812	15,887	7.6	555	588	541	573	265	292	194	214
CO	21,287	22,925	17,896	5.4	4,372	4,746	4,211	4,571	2,540	2,867	1,982	2,237
NM	8,202	8,945	16,323	5.9	1,712	1,787	1,630	1,701	941	1,111	662	784
AZ	22,360	24,046	18,455	2.3	5,077	5,529	4,906	5,343	2,489	2,769	1,730	1,934
UT	8,620	9,341	17,492	5.1	1,939	2,030	1,856	1,944	1,027	1,123	799	875
NV	7,495	8,030	18,168	-3.8	1,565	1,684	1,500	1,615	843	957	712	812
Pac.	243,233	280,513	19,872	9.6	49,752	56,863	46,317	52,955	29,291	31,721	21,917	23,738
WA	27,939	32,892	17,617	11.1	6,317	7,560	6,043	7,229	3,365	3,613	2,500	2,681
OR	17,340	20,226	17,947	11.2	3,412	3,880	3,209	3,651	2,534	2,870	1,795	2,034
CA	185,959	213,317	20,180	9.1	37,490	42,509	34,690	39,345	21,609	23,284	16,256	17,525
AK	3,728	4,343	24,126	12.6	932	1,062	902	1,028	526	591	370	418
HI	8,267	9,737	26,971	12.2	1,601	1,852	1,472	1,701	1,257	1,362	997	1,080

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. Minus sign (-) indicates decrease. ³ Includes hardware dealers. ⁴ Includes home furnishings stores.

by Type of Store and State: 1987 and 1989

1987 Standard Industrial Classification code; see text, section 13. Data are estimates]

AUTOMOTIVE DEALERS		EATING AND DRINKING PLACES		GASOLINE SERVICE STATIONS		BUILDING MATERIALS DEALERS ³		APPAREL AND ACCESSORIES STORES		FURNITURE AND APPLIANCE STORES ⁴		REGION, DIVISION, AND STATE
1987	1989	1987	1989	1987	1989	1987	1989	1987	1989	1987	1989	
342,884	381,909	153,463	173,702	104,808	114,733	83,453	91,118	79,407	90,268	78,065	89,347	U.S.
71,415	79,357	31,641	37,717	18,978	20,171	18,250	17,847	20,855	23,248	17,660	20,826	Northeast
22,617	24,829	9,524	11,678	6,077	6,565	6,512	6,222	5,705	6,122	4,839	5,579	N.E.
1,975	2,193	718	889	569	614	692	659	349	364	316	356	ME
2,486	2,737	780	963	506	553	821	783	446	510	537	600	NH
944	1,029	377	474	277	312	381	370	179	208	170	204	VT
10,093	11,019	4,826	5,881	2,587	2,830	2,542	2,424	2,827	3,006	2,180	2,546	MA
1,310	1,465	663	823	441	496	399	385	367	370	269	320	RI
5,808	6,386	2,159	2,649	1,697	1,759	1,678	1,601	1,537	1,662	1,367	1,552	CT
48,798	54,528	22,118	26,039	12,900	13,607	11,737	11,625	15,151	17,127	12,821	15,047	M.A.
19,247	22,431	10,807	13,076	5,110	5,465	5,232	5,323	7,631	8,794	6,150	7,391	NY
13,044	13,854	4,820	5,451	3,233	3,259	2,651	2,538	3,755	4,132	3,328	3,751	NJ
16,507	18,243	6,490	7,513	4,557	4,883	3,854	3,764	3,765	4,201	3,343	3,905	PA
80,836	92,639	35,971	38,558	28,361	32,590	20,054	22,969	16,795	19,136	17,437	19,429	Midwest
57,690	65,240	25,828	27,390	19,092	22,205	13,742	15,601	12,304	14,014	12,590	14,740	E.N.C.
14,735	16,197	6,680	6,649	5,016	5,697	3,298	3,559	2,656	2,980	2,995	3,404	OH
7,927	9,043	3,345	3,536	2,694	3,067	2,039	2,244	1,407	1,515	1,493	1,712	IN
15,096	16,711	7,147	7,915	4,725	5,690	3,463	4,167	4,133	4,947	3,643	4,401	IL
13,802	15,824	5,679	6,054	4,331	4,921	3,240	3,623	2,891	3,271	3,010	3,485	MI
6,132	7,465	2,977	3,237	2,326	2,831	1,703	2,008	1,116	1,300	1,449	1,738	WI
22,946	27,399	10,144	11,168	9,269	10,384	6,311	7,369	4,491	5,121	4,847	4,690	W.N.C.
5,681	6,856	2,659	3,001	2,284	2,654	1,863	2,217	1,243	1,437	1,418	1,361	MN
3,489	4,195	1,418	1,530	1,451	1,661	898	1,047	657	752	644	644	IA
7,053	8,296	3,135	3,334	2,789	2,975	1,791	2,054	1,305	1,436	1,347	1,280	MO
900	1,080	351	408	379	431	250	291	171	194	142	137	ND
872	1,055	351	382	394	451	236	282	159	184	154	150	SD
1,851	2,226	896	1,012	804	904	471	549	381	449	479	473	NE
3,101	3,692	1,333	1,501	1,169	1,309	803	928	575	668	662	644	KS
121,944	133,241	50,220	55,659	36,601	38,954	28,605	30,115	25,572	28,258	25,557	28,308	South
67,577	70,026	27,851	30,712	19,237	20,781	16,709	16,584	13,583	14,561	15,168	16,612	S.A.
1,160	1,173	449	500	291	335	324	325	223	240	274	305	DE
7,945	8,058	3,071	3,409	2,174	2,317	1,601	1,601	1,793	1,908	1,816	2,071	MD
183	172	841	952	132	138	72	68	328	346	200	189	DC
9,609	10,270	3,651	4,246	2,845	3,201	2,212	2,361	1,881	2,137	2,206	2,411	VA
2,071	2,179	760	879	710	782	626	627	344	364	364	402	WV
9,682	10,157	3,740	4,131	2,814	3,038	3,076	3,015	1,954	2,106	2,329	2,562	NC
4,347	4,661	1,917	2,163	1,543	1,669	1,419	1,395	1,052	1,143	1,029	1,141	SC
9,655	10,009	4,097	4,421	3,058	3,281	2,579	2,534	1,909	1,969	2,107	2,235	GA
22,925	23,347	9,324	10,010	5,670	6,020	4,798	4,658	4,100	4,349	4,842	5,297	FL
19,826	23,138	7,477	7,994	6,211	6,919	4,868	4,639	3,864	4,379	3,695	4,121	E.S.C.
4,162	5,024	1,898	2,137	1,603	1,863	1,188	1,153	786	901	846	978	KY
7,375	8,175	2,712	2,724	2,276	2,336	1,703	1,583	1,382	1,552	1,429	1,540	TN
5,596	6,720	1,921	2,118	1,513	1,760	1,302	1,252	1,191	1,346	964	1,113	AL
2,893	3,219	947	1,015	819	958	675	650	505	580	456	490	MS
34,540	40,076	14,892	16,954	11,153	11,254	7,028	8,892	8,125	9,317	6,694	7,575	W.S.C.
2,864	3,398	979	1,126	983	990	835	1,074	532	603	472	533	AR
4,417	5,353	2,106	2,494	1,601	1,633	1,067	1,363	1,110	1,296	965	1,108	LA
4,043	4,858	1,684	1,955	1,218	1,324	781	1,005	921	1,025	717	868	OK
23,216	26,467	10,123	11,379	7,350	7,308	4,345	5,450	5,561	6,393	4,541	5,066	TX
68,889	76,672	35,631	41,768	20,868	23,019	16,544	20,186	16,185	19,626	17,410	20,983	West
17,583	18,555	8,387	8,904	6,282	6,146	4,346	5,271	3,367	3,874	3,900	4,528	Mt
952	1,021	489	515	413	405	276	336	177	192	189	228	MT
1,187	1,329	467	503	455	446	317	380	201	222	226	264	ID
549	590	282	305	311	309	137	166	109	124	85	101	WY
4,532	4,684	2,442	2,543	1,589	1,561	1,066	1,302	924	1,077	1,098	1,290	CO
1,838	1,976	884	967	657	653	500	600	352	404	351	411	NM
5,035	5,181	2,266	2,370	1,619	1,550	1,141	1,391	858	1,012	1,144	1,362	AZ
1,871	2,068	781	859	725	713	457	546	416	459	474	536	UT
1,618	1,705	777	841	533	508	452	551	329	383	334	336	NV
51,306	58,117	27,243	32,864	14,586	16,873	12,199	14,915	12,818	15,752	13,511	16,455	Pac
5,479	6,336	3,032	3,732	1,776	2,071	1,571	1,899	1,400	1,737	1,405	1,708	WA
3,912	4,653	1,769	2,142	1,075	1,271	859	1,024	784	956	818	981	OR
40,135	45,042	20,604	24,718	11,111	12,789	9,317	11,453	9,849	12,102	10,877	13,269	CA
521	628	471	581	187	219	215	244	198	242	118	135	AK
1,258	1,458	1,369	1,691	438	523	238	295	586	714	294	362	HI

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

No. 1363. Retail Foodstores—Number and Sales, by Type: 1980 to 1989

TYPE OF FOODSTORE	NUMBER (1,000)					SALES ² (bil. dol.)					PERCENT DISTRIBUTION			
	1980	1985 ¹	1987 ¹	1988 ¹	1989 ¹	1980	1985	1987	1988	1989	Number		Sales	
											1980	1988	1980	1988
Total	253.4	255.9	257.3	255.9	254.4	220.2	285.1	309.5	326.5	349.3	100.0	100.0	100.0	100.0
Grocery stores	178.3	177.2	176.8	174.5	172.3	205.6	269.5	291.0	307.2	329.4	70.4	68.2	93.4	94.1
Supermarkets ³	26.3	26.2	26.8	23.2	23.0	157.0	201.8	219.9	230.6	247.4	10.4	9.1	71.3	70.6
Convenience stores ⁴	35.8	45.4	50.0	52.5	(NA)	18.9	33.7	36.1	38.3	41.0	14.1	20.5	8.6	11.7
Superette ⁵	116.2	105.6	99.9	98.8	(NA)	28.7	34.0	35.0	38.2	41.0	45.9	38.6	13.5	11.7
Specialized food stores ⁶	75.0	78.7	80.6	81.3	82.1	14.6	15.5	18.5	19.3	19.9	29.6	31.8	6.6	5.9

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. 1364. Supermarkets—Number and Sales, by Type of Format: 1980 to 1989

[For definition of supermarket, see footnote 3, table 1363]

SUPERMARKET FORMAT	NUMBER				SALES (bil. dol.)				PERCENT DISTRIBUTION			
	1980	1986	1988	1989	1980	1986	1988	1989	Number		Sales	
									1980	1989	1980	1989
Supermarkets, total	26,321	25,629	23,236	23,000	157.0	211.0	230.6	247.4	100.0	100.0	100.0	100.0
Conventional	21,009	15,812	12,526	12,190	114.7	99.8	98.9	103.9	79.8	53.0	73.1	42.0
Superstore	3,150	5,100	5,600	5,642	27.8	57.9	69.6	75.7	12.0	24.5	17.7	30.6
Warehouse ²	1,670	3,382	3,375	3,395	6.6	25.9	28.1	30.4	6.3	14.8	4.2	12.3
Combination food and drug ³	475	1,150	1,250	1,273	6.3	16.8	19.8	21.8	1.8	5.5	4.0	8.8
Superwarehouse ⁴	7	305	375	385	1.6	6.7	9.0	9.9	(Z)	1.7	1.0	4.0
Hypermarket ⁵	10	80	110	115	(NA)	3.4	5.1	5.7	(Z)	0.5	(NA)	2.3

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 1363 and 1364: U.S. Dept. of Agriculture, Economic Research Service, *Food Marketing Review*, annual.**No. 1365. Commercial and Institutional Groups—Food and Drink Sales: 1970 to 1990**

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

TYPE OF GROUP	Number, 1988	SALES (mil. dol.)							
		1970	1980	1985	1986	1987	1988	1989 ¹	1990 ¹
Total	655,663	42,199	119,004	173,889	187,984	198,848	213,009	226,145	240,139
Commercial foodservice ^{2 3}	483,216	34,829	101,529	152,864	166,322	176,419	189,446	201,177	213,928
Eating places ⁴	286,116	21,614	72,275	111,598	121,937	129,889	138,670	147,040	156,362
Restaurants, lunchrooms	130,566	13,348	39,307	58,444	62,391	65,389	69,574	73,235	77,190
Limited menu restaurants	135,227	6,190	28,689	47,191	52,509	56,359	61,319	65,529	70,380
Bars and taverns ⁵	32,308	5,008	7,785	8,428	8,976	9,771	8,929	8,983	9,010
Food contractors ⁶	15,739	2,442	6,818	9,460	10,095	11,075	12,071	13,083	14,162
Manufacturing and industrial plants. (NA)	915	2,121	2,721	2,824	3,042	3,356	3,655	3,944	
Colleges and universities	(NA)	496	1,140	1,738	1,882	2,057	2,284	2,426	2,701
Lodging places	27,051	2,585	6,768	10,699	11,383	12,328	13,253	14,141	15,088
Hotel restaurants	16,338	1,554	4,964	8,748	9,404	10,263	11,079	11,853	12,684
Motel restaurants	8,906	643	1,151	1,209	1,225	1,275	1,340	1,404	1,467
Retail hosts ²	110,669	1,652	3,264	6,196	7,052	7,827	8,510	9,457	10,326
Department store restaurants	4,932	424	857	1,052	1,092	1,145	1,206	(NA)	(NA)
Grocery store restaurants	44,244	189	830	2,466	2,988	3,422	3,739	(NA)	(NA)
Gasoline service stations	33,132	109	492	1,291	1,527	1,733	1,969	(NA)	(NA)
Recreation and sports	6,599	514	1,452	1,957	2,055	2,213	2,367	2,551	2,736
Institutional foodservice ²	172,447	7,370	17,475	21,025	21,661	22,429	23,563	24,968	26,211
Employee foodservice	7,910	688	1,635	1,971	1,976	1,978	1,980	1,942	1,912
Industrial, commercial organizations	3,309	561	1,377	1,682	1,694	1,680	1,658	(NA)	(NA)
Educational foodservice	95,784	2,102	4,610	5,978	6,253	6,542	6,883	7,243	7,540
Elementary and secondary schools	93,009	1,163	2,312	2,919	3,060	3,189	3,347	3,544	3,704
Hospitals	6,734	2,991	6,668	7,104	7,170	7,436	7,826	8,327	8,785
Miscellaneous ²	28,589	646	1,521	2,077	2,197	2,365	2,489	2,750	2,964
Clubs	10,310	525	1,056	1,537	1,620	1,743	1,809	(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 1990 National Restaurant Association Foodservice Industry Forecast, December 1989. (Copyright.)

No. 1366. Shopping Centers—Number, Gross Leasable Area, and Retail Sales, by Gross Leasable Area: 1986 to 1989

[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
1988	32,583	20,829	7,713	2,421	999	270	331
1989	34,683	22,016	8,337	2,637	1,065	280	348
Percent distribution	100.0	63.5	24.0	7.6	3.1	0.8	1.0
Percent change, 1988-89	6.5	5.7	8.1	8.9	6.6	3.7	5.1
GROSS LEASABLE AREA							
1986 (mil. sq. ft.)	3,523	801	917	555	522	234	393
1987 (mil. sq. ft.)	3,723	967	984	593	539	236	403
1988 (mil. sq. ft.)	3,947	1,022	1,058	643	563	242	420
1989 (mil. sq. ft.)	4,214	1,074	1,146	699	598	252	444
Percent distribution	100.0	25.5	27.2	16.6	14.2	6.0	10.5
Percent change, 1988-89	6.8	5.1	8.4	8.7	6.3	3.9	5.9
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
1988 (bil. dol.)	641.1	185.9	162.9	98.3	83.4	40.9	69.8
1989 (bil. dol.)	682.8	198.3	173.4	104.4	88.7	43.6	74.4
Percent distribution	100.0	29.0	25.4	15.3	13.0	6.4	10.9
Percent change, 1988-89	6.5	6.7	6.5	6.3	6.3	6.4	6.6

Source: National Research Bureau, 225 West Wacker Drive, Chicago, IL 60606-1229. Data for 1986-1988 published by Communication Channels Inc., Atlanta, GA, in *Shopping Center World*, February issues. (Copyright.) Data for 1989 published by Monitor Publishing, Clearwater, FL, in *Monitor Magazine*, November/December 1989. (Copyright.)

No. 1367. Shopping Centers—Number, Gross Leasable Area, and Retail Sales, by State: 1989

[Minus sign (-) indicates decrease. See headnote, table 1366]

DIVISION AND STATE	Number	Gross leasable area (mil. sq. ft.)	Retail sales (mil. dol.)	PERCENT CHANGE, 1988-89			DIVISION AND STATE	Number	Gross leasable area (mil. sq. ft.)	Retail sales (mil. dol.)	PERCENT CHANGE, 1988-89		
				Number	Gross leasable area	Retail sales per sq. ft.					Number	Gross leasable area	Retail sales per sq. ft.
U.S.	34,683	4,214	682,753	6.5	6.8	-0.2	VA.	988	129.1	20,266	7.5	8.4	-1.4
N.E.	2,000	220.1	35,507	5.4	6.3	-0.3	WV	138	18.8	2,783	6.2	9.2	-4.3
ME	163	14.3	2,573	7.2	3.6	2.4	NC	1,157	124.2	19,222	7.5	10.4	-3.5
NH	157	15.8	2,484	10.6	9.1	-1.4	SC	640	64.4	10,535	5.3	4.6	2.1
VT	89	6.1	1,055	4.7	8.6	-2.1	GA	1,254	130.1	20,652	9.2	10.3	-2.6
MA	818	93.1	15,190	3.8	4.9	1.1	FL	2,715	343.5	57,869	4.2	5.4	2.7
RI	172	15.2	2,515	4.9	5.1	0.7	E.S.C.	2,452	284.9	41,923	6.5	7.3	-1.4
CT	601	75.7	11,689	6.2	8.2	-2.2	KY	538	59.2	9,658	3.1	6.2	-0.8
M.A.	3,375	487.9	75,860	5.9	6.3	-0.7	TN	987	107.3	15,491	12.2	12.5	-5.7
NY	1,329	186.1	30,445	4.7	5.3	0.3	AL	556	63.9	10,818	1.7	1.7	4.0
NJ	810	118.9	18,212	10.1	8.3	-2.0	MS	371	34.4	5,955	4.8	4.9	0.9
PA	1,236	182.9	27,203	4.5	6.0	-0.9	W.S.C.	4,149	470.3	85,589	1.7	2.2	4.9
E.N.C.	5,061	661.4	96,959	10.6	9.5	-4.1	AR	323	30.8	5,293	1.9	2.8	2.9
OH	1,310	190.0	28,831	7.3	6.2	-1.3	LA	626	75.9	12,962	3.3	4.4	1.6
IN	776	101.6	14,934	5.7	10.9	-5.4	OK	517	53.8	9,469	1.4	2.8	3.5
IL	1,629	194.8	28,101	19.3	14.1	-7.8	TX	2,683	309.8	57,866	1.4	1.5	6.1
MI	825	110.1	17,315	5.6	5.3	-0.5	Mt.	2,389	278.5	47,448	4.5	6.7	0.9
WI	521	64.8	9,779	9.5	11.0	-5.2	MT	82	8.1	1,370	5.1	3.2	2.2
W.N.C.	2,117	268.2	44,357	4.3	4.6	0.9	ID	115	14.6	2,296	6.5	8.1	-2.0
MN	387	54.0	9,306	3.5	2.7	3.1	WY	47	5.4	988	4.4	-	6.2
IA	249	32.8	5,273	5.5	5.3	-0.8	CO	646	83.6	14,594	2.9	4.5	2.7
MO	766	95.1	15,493	5.1	5.8	-0.1	NM	241	24.1	4,272	2.1	4.1	3.1
ND	70	8.7	1,453	6.1	2.9	2.9	AZ	833	91.9	15,416	4.9	9.6	-0.9
SD	40	5.3	886	5.3	3.2	2.1	UT	176	26.4	4,425	7.3	5.7	1.5
NE	200	26.2	3,973	7.5	9.2	-3.5	NV	229	24.4	4,108	7.0	9.3	-1.2
KS	405	46.1	7,974	1.3	1.9	3.8	Pac.	5,379	625.5	101,505	9.6	8.4	-1.0
S.A.	7,781	937.1	151,605	6.4	7.1	0.2	WA	575	77.4	11,462	8.1	10.9	-4.3
DE	101	16.9	2,727	6.3	5.8	0.5	OR	364	42.5	6,151	6.4	9.4	-3.7
MD	730	102.3	16,364	7.2	4.4	2.2	CA	4,246	484.5	80,260	10.1	8.0	-0.4
DC	58	7.8	1,189	9.4	14.3	-7.6	AK	53	7.1	1,209	8.2	9.2	0.4
							HI	141	14.0	2,423	9.3	5.3	1.5

- Represents zero.

Source: National Research Bureau, 225 West Wacker Drive, Chicago, IL 60606-1229. Data published by Monitor Publishing, Clearwater, FL, in *Monitor Magazine*, November/December 1989. (Copyright.)

No. 1368. Domestic and International Franchising—Summary: 1970 to 1990

[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	1980	1983	1984	1985	1986	1987	1988	1989 ¹	1990 ¹
DOMESTIC²											
Number of franchised establishments.	1,000 ..	398	442	442	444	455	462	479	481	499	533
Company-owned	1,000 ..	72	85	86	87	86	88	89	94	95	98
Franchisee-owned	1,000 ..	324	357	355	357	369	374	390	387	404	435
Sales of products and services	Bil. dol.	120	336	423	492	543	589	599	648	679	716
Company-owned	Bil. dol.	23	47	59	64	68	85	90	98	104	112
Franchisee-owned	Bil. dol.	96	289	364	428	475	484	509	550	575	604
Average sales per establishment	\$1,000	302	780	958	1,108	1,193	1,231	1,251	1,348	1,360	1,344
Employment	1,000 ..	(NA)	4,668	5,165	5,671	6,283	6,501	(NA)	(NA)	(NA)	(NA)
INTERNATIONAL											
U.S. companies operating foreign outlets	Number.	⁴ 156	279	305	328	342	354	374	(NA)	(NA)	(NA)
Foreign outlets	1,000 ..	³ 3.4	20.4	25.7	27.0	30.2	31.6	(NA)	35.0	(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. Beginning 1988, International Franchise Association Educational Foundation, Inc., Washington, DC and Horwath International, New York, NY, *Franchising in the Economy, 1988-1990*, 1990.

No. 1369. Domestic Franchising—Number of Establishments and Sales, by Kind of Franchised Business: 1980 to 1990

[See headnote, table 1368, for definition of franchising. Excludes foreign outlets of U.S. companies]

KIND OF FRANCHISED BUSINESS	NUMBER OF ESTABLISHMENTS (1,000)						SALES (bil. dol.)					
	1980	1985	1987	1988	1989 ¹	1990 ¹	1980	1985	1987	1988	1989 ¹	1990 ¹
All franchising, total	442.4	455.2	479.1	480.8	496.8	533.0	336.2	543.0	599.4	648.1	678.8	716.4
Auto and truck dealers ²	29.4	27.5	27.6	27.8	27.6	27.6	143.9	282.6	319.7	345.1	353.6	362.3
Percent	6.6	6.0	5.8	5.8	5.5	5.2	42.8	52.0	53.3	53.2	52.1	50.6
Restaurants (all types)	60.0	73.9	83.3	90.3	94.3	102.1	27.9	47.7	56.8	64.3	69.1	76.5
Percent	13.6	16.2	17.4	18.8	18.9	19.2	8.3	8.8	9.5	9.9	10.2	10.7
Gasoline service stations ²	158.5	124.6	115.9	113.2	112.0	111.7	94.5	100.8	89.2	101.9	108.5	115.1
Percent	35.8	27.4	24.2	23.5	22.1	20.9	28.1	18.6	14.9	15.7	16.0	18.1
Retailing (nonfood)	35.2	45.1	47.9	46.2	49.2	54.1	10.5	20.6	25.4	23.3	26.0	28.6
Percent	8.0	9.9	10.0	9.6	9.7	10.2	3.1	3.8	4.2	3.6	3.8	4.0
Auto, truck rental services	7.3	11.2	10.0	9.5	9.9	10.6	3.1	5.7	6.5	6.6	7.0	7.6
Automotive products and services	40.2	36.5	39.3	34.7	35.8	38.6	7.1	10.7	12.3	11.4	12.2	13.6
Business aids and services	40.7	49.8	56.7	55.8	59.8	67.3	6.7	12.0	14.7	15.7	17.1	19.5
Employment services	4.4	4.8	6.1	6.5	6.6	7.4	1.6	2.7	3.7	4.7	5.0	5.8
Tax preparation services	9.2	8.1	8.5	8.3	8.2	8.5	0.3	0.4	0.5	0.6	0.7	0.7
Accounting, credit, collection, and general	2.4	2.1	2.0	1.7	1.7	1.8	0.1	0.2	0.2	0.2	0.2	0.2
Real estate ³	17.3	13.9	15.2	15.3	16.0	17.0	3.6	4.6	5.6	5.9	6.2	6.8
Printing and copying	2.8	4.5	5.6	5.9	6.5	7.4	0.4	0.9	1.2	1.5	1.6	1.9
Other	4.8	16.4	19.4	17.9	20.8	25.1	0.8	3.1	3.5	3.0	3.4	4.1
Construction, home improvement, maintenance, and cleaning	14.3	17.5	21.7	22.0	24.7	28.3	1.5	4.1	5.2	5.3	6.0	6.8
Convenience stores	15.6	15.1	16.3	17.2	17.3	17.5	7.8	10.8	12.3	13.9	14.1	14.4
Educational products and services	3.2	8.2	9.6	11.6	11.9	13.3	0.3	0.8	1.0	1.7	1.9	2.3
Equipment rental services	2.2	2.5	2.8	3.0	3.0	3.4	0.4	0.7	0.7	0.7	0.7	0.8
Food retailing	15.5	16.7	20.5	21.6	23.0	25.4	7.4	10.1	11.1	10.2	10.9	11.9
Hotels and motels	6.4	7.5	9.3	9.3	10.1	11.1	9.5	14.8	17.7	19.7	21.3	23.9
Laundry, dry cleaning services	3.4	2.3	2.2	2.3	2.5	2.6	0.3	0.3	0.3	0.3	0.3	0.3
Recreation, entertainment, travel	4.6	7.8	8.2	8.8	9.5	10.3	0.5	2.3	4.0	3.5	4.1	4.7
Soft drink bottlers	1.9	1.4	1.1	0.9	0.8	0.8	14.4	18.3	20.9	22.7	24.2	25.8
Miscellaneous	3.6	5.5	6.8	6.9	7.3	8.4	0.4	0.9	1.5	1.7	1.9	2.2

¹ Estimated by respondents. ² Estimated by source on basis of Bureau of the Census and trade association data. ³ Includes some establishments with significant sales of nonautomotive products such as household appliances, garden supplies, etc. ⁴ Gross commissions. ⁵ Excludes convenience stores. ⁶ Includes campgrounds. ⁷ 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. Beginning 1988, International Franchise Association Educational Foundation, Inc., Washington, DC and Horwath International, New York, NY, *Franchising in the Economy, 1988-1990*, 1990.

No. 1370. Franchised New Car Dealerships—Summary: 1970 to 1989

(Calendar year, except as indicated)

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
Dealerships¹	Number	30,800	27,900	25,700	24,725	24,725	24,725	24,825	25,150	24,950	24,925
Sales	Bil. dol.	51.8	130.5	154.7	187.7	225.9	251.6	270.4	280.5	302.4	304.3
New cars	1,000	8,393	8,979	7,980	9,182	10,390	11,038	11,455	10,277	10,639	9,903
Used vehicles	1,000	11,283	9,717	10,080	10,930	12,420	13,330	13,460	13,400	14,940	14,710
Employment	1,000	702.9	753.7	702.3	748.8	813.8	861.4	906.0	939.0	953.0	955.0
Annual payroll	Bil. dol.	5.5	11.2	12.6	15.0	18.2	20.2	21.9	23.0	24.0	24.8
Advertising expenses	Bil. dol.	0.4	1.2	1.4	1.7	2.1	2.8	3.2	3.7	4.1	3.8
Dealer pretax profits as a percentage of sales	Percent	2.00	0.61	1.30	2.14	2.18	2.20	2.16	1.88	1.71	1.00
Inventory:											
Domestic:											
Total	1,000	1,409	1,506	1,294	1,209	1,413	1,510	1,687	1,724	1,543	1,677
Days' supply	Days	80	71	71	55	55	58	63	75	63	72
Imported:											
Total	1,000	(NA)	458	381	260	216	271	392	551	626	648
Days' supply	Days	(NA)	55	54	34	26	30	37	53	62	70

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 United States are classified as domestic).

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

No. 1371. Wholesale Trade—Summary: 1958 to 1987

[Data prior to 1972 based on earlier editions of Standard Industrial Classification (SIC) code. Comparability of data over time is affected by changes in the SIC code; 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 ¹	1977 ¹	1982 ¹	1987 ¹	1987 ²
Firms, total ³	1,000	(NA)	232	233	276	289	335	(NA)	364
Establishments, total ³	1,000	287	308	311	370	383	435	467	470
With sales of \$1,000,000 or more	1,000	(NA)	62	75	103	152	(NA)	(NA)	222
Sales, all establishments	Bil. dol.	286	358	460	695	1,258	1,998	2,524	2,525
Merchant wholesalers	Bil. dol.	122	157	206	354	678	1,159	1,477	1,478
Inventories, end of year	Bil. dol.	15.0	20.1	28.1	45.7	82.3	130.7	(NA)	165.1
Payroll, entire year	Bil. dol.	13.2	18.1	23.9	36.9	58.3	95.2	133.2	133.4
Paid employees, Mar. 12 workweek ⁴	1,000	2,808	3,089	3,519	4,026	4,397	4,985	5,584	5,609

NA Not available. ¹ Based on 1972 SIC code. ² Based on 1987 SIC code. ³ Through 1977 number of firms and establishments in business at end of year; beginning 1982 number of firms and establishments in business at any time during year. ⁴ 1958 and 1963 data for workweek including Nov. 15.

No. 1372. Wholesale Trade, by Type of Operation and Kind of Business: 1982 and 1987

[Based on 1972 Standard Industrial Classification code; see text, section 13. 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 (1,000)		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	5,584
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	1,116,883	1,265,205	37,841	50,905	2,072	2,290
Paper, paper products	14.5	16.8	53,493	83,173	3,588	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 of tables 1371 and 1372: 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. 1373. Merchant Wholesalers—Summary: 1980 to 1990

[Inventories and stock/sales ratios, as of December, seasonally adjusted. 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]

1972 SIC code ¹	KIND OF BUSINESS	1980	1984	1985	1986	1987	1988	1989	1990
	SALES (bil. dol.)								
	Merchant wholesalers	1,124.5	1,360.7	1,375.5	1,393.8	1,491.0	1,622.1	1,728.1	1,790.3
50	Durable goods	483.1	621.8	650.5	679.6	727.7	795.4	842.1	876.2
501	Motor vehicles and automotive equipment	83.1	124.3	137.7	150.9	155.2	164.5	163.6	175.0
502	Furniture and home furnishings	16.3	23.2	23.4	24.5	26.9	29.2	29.7	30.3
503	Lumber and other construction material	36.4	45.3	47.4	51.8	58.4	58.9	57.6	56.1
504	Sporting, recreational, photographic, and hobby goods, toys, and supplies	(S)	14.9	17.3	19.4	20.4	23.0	24.6	25.2
505	Metals and minerals, except petroleum	63.4	64.9	60.8	58.9	67.6	81.6	86.9	90.9
506	Electrical goods	48.9	86.0	87.3	89.0	93.7	101.6	112.9	116.9
507	Hardware, plumbing and heating equipment	29.1	35.4	37.5	39.0	41.4	42.9	44.0	44.9
508	Machinery, equipment, and supplies	140.7	170.3	177.7	182.4	197.1	225.4	251.1	264.4
509	Miscellaneous durable goods	52.5	57.4	61.4	63.7	67.0	68.3	71.6	72.5
51	Nondurable goods	641.4	738.9	725.0	714.2	783.3	826.7	886.0	914.1
511	Paper and paper products	22.6	32.6	33.7	35.8	40.8	46.6	50.0	51.5
512	Drugs, drug proprietaries and druggists' sundries	13.6	22.7	26.0	29.2	34.0	39.3	43.0	47.2
513	Apparel, piece goods and notions	28.5	37.9	40.9	42.4	46.6	51.9	59.0	64.2
514	Groceries and related products	155.4	203.3	208.1	222.4	223.0	228.1	242.7	238.5
515	Farm-product raw materials	125.4	133.2	103.7	94.1	102.2	127.9	129.5	122.4
516	Chemicals and allied products	(S)	22.7	23.2	23.6	26.5	35.9	37.6	41.9
517	Petroleum and petroleum products	171.5	148.3	147.2	116.4	124.9	124.4	140.7	154.2
518	Beer, wine, and distilled beverages	31.9	36.9	38.2	39.3	41.6	42.1	42.9	44.7
519	Miscellaneous nondurable goods	77.5	101.4	104.0	111.0	123.8	130.7	140.5	149.5
	INVENTORIES (bil. dol.)								
	Merchant wholesalers	123.0	143.6	148.5	154.7	165.3	180.3	188.3	195.6
50	Durable goods	78.7	95.2	97.1	102.1	107.7	117.3	123.4	128.6
501	Motor vehicles and automotive equipment	12.4	15.8	17.1	19.2	21.0	22.2	21.9	23.6
502	Furniture and home furnishings	2.5	3.0	3.4	3.6	4.2	4.4	4.4	4.3
503	Lumber and other construction material	(S)	4.5	4.7	5.1	5.5	5.7	5.8	5.6
504	Sporting, recreational, photographic, and hobby goods, toys, and supplies	(S)	2.9	3.1	3.8	3.8	4.2	4.5	4.5
505	Metals and minerals, except petroleum	10.6	10.0	8.7	8.3	8.7	10.6	10.6	10.2
506	Electrical goods	7.6	12.6	12.2	12.9	13.3	14.3	15.6	15.8
507	Hardware, plumbing and heating equipment	5.3	6.1	6.1	6.4	6.6	6.7	7.2	7.1
508	Machinery, equipment, and supplies	29.3	34.6	36.2	36.7	38.0	42.9	47.0	51.8
509	Miscellaneous durable goods	(S)	5.6	5.7	6.1	6.5	6.3	6.4	5.6
51	Nondurable goods	44.3	48.3	51.3	52.6	57.6	63.0	64.8	66.9
511	Paper and paper products	2.0	2.9	3.2	3.4	3.5	4.0	4.1	4.3
512	Drugs, drug proprietaries and druggists' sundries	(S)	3.0	3.5	4.1	4.8	5.3	5.7	5.9
513	Apparel, piece goods and notions	(S)	6.3	6.6	7.4	7.7	8.2	8.8	10.3
514	Groceries and related products	7.8	9.7	10.9	12.1	12.5	12.5	13.1	12.4
515	Farm-product raw materials	7.6	7.3	7.9	6.2	7.2	9.2	7.8	8.2
516	Chemicals and allied products	(S)	2.3	2.3	2.3	2.5	2.9	2.6	3.1
517	Petroleum and petroleum products	(S)	4.0	4.2	3.7	3.4	3.6	3.9	4.3
518	Beer, wine, and distilled beverages	3.2	3.6	3.9	3.9	4.0	3.9	3.9	3.8
519	Miscellaneous nondurable goods	7.2	9.1	8.9	9.6	11.9	13.5	13.8	14.5
	STOCK/SALES RATIO								
	Merchant wholesalers	1.19	1.27	1.26	1.30	1.31	1.28	1.28	1.32
50	Durable goods	1.65	1.82	1.73	1.74	1.75	1.68	1.76	1.81
501	Motor vehicles and automotive equipment	1.74	1.47	1.44	1.45	1.60	1.59	1.72	1.70
502	Furniture and home furnishings	1.73	1.70	1.62	1.75	1.82	1.71	1.83	1.83
503	Lumber and other construction material	(S)	1.21	1.19	1.13	1.12	1.12	1.33	1.40
504	Sporting, recreational, photographic, and hobby goods, toys, and supplies	(S)	2.37	2.04	2.21	2.37	1.92	2.20	2.17
505	Metals and minerals, except petroleum	1.83	1.95	1.75	1.62	1.43	1.46	1.51	1.38
506	Electrical goods	1.76	1.70	1.60	1.68	1.76	1.59	1.59	1.70
507	Hardware, plumbing and heating equipment	2.15	1.99	1.93	1.93	1.90	1.86	1.96	1.94
508	Machinery, equipment, and supplies	2.37	2.38	2.35	2.24	2.33	2.12	2.16	2.31
509	Miscellaneous durable goods	(S)	1.22	1.03	1.28	1.09	1.08	0.99	0.95
51	Nondurable goods	0.73	0.79	0.84	0.88	0.88	0.89	0.85	0.87
511	Paper and paper products	1.02	1.10	1.12	1.09	0.93	1.01	0.97	1.03
512	Drugs, drug proprietaries and druggists' sundries	(S)	1.47	1.57	1.54	1.63	1.51	1.48	1.49
513	Apparel, piece goods and notions	(S)	1.94	2.06	2.16	1.89	1.83	1.81	1.84
514	Groceries and related products	0.57	0.57	0.61	0.66	0.66	0.61	0.66	0.65
515	Farm-product raw materials	0.83	0.68	0.95	0.79	0.84	0.86	0.76	0.85
516	Chemicals and allied products	(S)	1.24	1.14	1.13	0.96	0.99	0.80	0.82
517	Petroleum and petroleum products	(S)	0.34	0.34	0.39	0.34	0.35	0.28	0.31
518	Beer, wine, and distilled beverages	1.19	1.14	1.20	1.15	1.16	1.11	1.08	0.95
519	Miscellaneous nondurable goods	0.99	1.10	0.98	0.99	1.12	1.20	1.12	1.17

S Data do not meet publication standards. ¹ Based on 1972 Standard Industrial Classification code; see text, section 13.

Source: U.S. Bureau of the Census, *Current Business Reports, Revised Monthly Wholesale Trade Sales and Inventories, December 1980 Through December 1989*, (BW89-R) and *January 1984 Through December 1990* (BW/90-R).

No. 1374. Wholesale Trade—Summary, by State: 1987

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

DIVISION AND STATE	Estab-lish-ments ¹	Sales (bil. dol.)	Paid employ-ees ² (1,000)	Annual payroll (mil. dol.)	DIVISION AND STATE	Estab-lish-ments ¹	Sales (bil. dol.)	Paid employ-ees ² (1,000)	Annual payroll (mil. dol.)
U.S.	466,680	2,523.7	5,593.8	133,153	VA	8,369	44.7	114.6	2,618
N.E.	23,628	146.1	322.6	8,482	WV	2,421	5.9	24.2	476
ME	1,845	6.5	22.6	460	NC	12,037	57.0	139.8	3,059
NH	1,952	6.8	22.5	560	SC	5,229	17.1	54.3	1,063
VT	978	2.8	10.2	205	GA	13,580	86.8	177.8	4,111
MA	11,029	74.7	160.5	4,386	FL	25,482	97.3	261.0	5,545
RI	1,708	6.0	22.2	489	E.S.C.	24,778	109.3	296.3	6,031
CT	6,116	49.2	84.6	2,382	KY	5,582	24.4	63.3	1,237
M.A.	78,914	532.7	983.3	25,987	TN	8,745	48.3	115.8	2,517
NY	41,647	283.7	465.4	12,636	AL	6,626	24.3	77.3	1,545
NJ	17,575	144.6	270.7	7,524	MS	3,825	12.2	39.9	732
PA	19,692	104.4	247.2	5,827	W.S.C.	52,344	256.6	569.0	12,555
E.N.C.	75,156	431.6	954.4	22,925	AR	3,976	12.8	38.8	704
OH	18,577	104.0	247.5	5,757	LA	7,598	31.5	80.3	1,650
IN	9,811	40.5	107.8	2,338	OK	5,913	20.2	54.7	1,115
IL	23,521	167.4	318.9	8,072	TX	34,857	192.1	395.2	9,085
MI	14,682	86.0	178.7	4,562	Mt.	24,666	84.1	258.1	5,444
WI	8,765	33.7	101.4	2,195	MT	1,792	4.4	14.8	264
W.N.C.	40,506	196.0	441.1	9,608	ID	2,112	5.1	20.7	353
MN	9,436	55.3	114.1	2,820	WY	1,016	2.2	6.3	125
IA	6,983	24.5	65.8	1,279	CO	7,038	30.0	76.1	1,768
MO	10,605	53.5	124.8	2,815	NM	2,373	5.1	22.0	421
ND	2,044	6.0	17.5	324	UT	5,826	20.8	64.5	1,418
SD	1,783	5.2	15.3	255	NV	2,934	11.1	34.1	717
NE	3,949	21.3	43.0	834	Pac.	71,398	406.8	875.7	22,075
KS	5,706	30.2	60.6	1,281	WA	9,250	41.5	102.3	2,374
S.A.	75,290	360.7	895.3	20,048	OR	5,878	28.8	63.7	1,461
DE	985	7.9	15.5	452	CA	53,508	327.2	692.4	17,622
MD	6,636	41.1	99.3	2,493	AK	773	2.7	7.1	204
DC	551	2.8	8.8	231	HI	1,989	5.4	20.1	415

¹ Number of establishments in business at any time during the year. ² 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 52.**No. 1375. Wholesale Trade—Establishments and Sales by Selected Metropolitan Areas: 1987**

[Kind-of-business classification based on 1987 Standard Industrial Classification code; see text, section 13. Metropolitan statistical areas (MSA's) and consolidated metropolitan statistical areas (CMSA's) are as defined by the U.S. Office of Management and Budget as of June 30, 1987; see Appendix II for definitions and components]

METROPOLITAN AREA	ALL ESTABLISHMENTS ¹			MERCHANT WHOLESALERS	
	Estab-lish-ments	Sales		Estab-lish-ments	Sales (bil. dol.)
		Amount (bil. dol.)	Percent of U.S. total		
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	47,892	398.6	15.8	40,798	271.7
Los Angeles-Anaheim-Riverside, CA CMSA	28,918	203.5	8.1	24,155	137.7
Chicago-Gary-Lake County, IL-IN-WI CMSA	17,043	139.8	5.5	12,978	63.9
San Francisco-Oakland-San Jose, CA CMSA	12,714	83.4	3.3	10,089	40.4
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA	11,192	73.6	2.9	8,859	33.6
Houston-Galveston-Brazoria, TX CMSA	8,258	72.4	2.9	6,651	42.5
Dallas-Fort Worth, TX CMSA	10,158	71.1	2.8	7,523	27.3
Atlanta, GA MSA	7,963	70.0	2.8	5,655	23.1
Boston-Lawrence-Salem, MA-NH CMSA	8,694	66.5	2.6	6,807	36.0
Detroit-Ann Arbor, MI CMSA	8,122	60.5	2.4	6,141	23.0
Minneapolis-St. Paul, MN-WI MSA	5,645	44.7	1.8	4,189	24.3
Cleveland-Akron-Lorain, OH CMSA	5,675	34.2	1.4	4,270	14.4
Miami-Fort Lauderdale, FL CMSA	9,924	33.5	1.3	8,637	24.1
St. Louis, MO-IL MSA	5,057	31.7	1.3	3,875	15.1
Seattle-Tacoma, WA CMSA	5,745	31.3	1.2	4,490	18.2
Washington, DC-MD-VA MSA	4,353	31.2	1.2	3,509	13.5
Kansas City, MO-KS MSA	3,710	30.1	1.2	2,726	14.6
Cincinnati-Hamilton, OH-KY-IN CMSA	3,283	26.9	1.1	2,358	9.5
Pittsburgh-Beaver Valley, PA CMSA	4,051	26.5	1.1	3,140	10.7
Charlotte-Gastonia-Rock Hill, NC-SC MSA	3,394	25.7	1.0	2,477	7.7

¹ Includes other types of operations, not shown separately.Source: U.S. Bureau of the Census, 1987 *Census of Wholesale Trade*, Geographic Area Series, WC87-A-52.

No. 1376. Selected Service Industries—Summary: 1982 and 1987

[For establishments with payroll]

1972 SIC code ¹	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	22,483	330	448
(X)	Firms exempt from Federal income tax ⁵	151.6	169.9	54,522	87,448	2,280	2,773
805, 6, 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. 1377. Service Industries—Summary of Establishments, by State: 1987

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

DIVISION AND STATE	FIRMS SUBJECT TO FEDERAL INCOME TAX			TAX-EXEMPT FIRMS ³		DIVISION AND STATE	FIRMS SUBJECT TO FEDERAL INCOME TAX			TAX-EXEMPT FIRMS ³	
	Estab- lish- ments ¹ (1,000)	Re- ceipts (mil. dol.)	Paid employ- ees ² (1,000)	Estab- lish- ments ¹	Reve- nues (mil. dol.)		Estab- lish- ments ¹ (1,000)	Re- ceipts (mil. dol.)	Paid employ- ees ² (1,000)	Estab- lish- ments ¹	Reve- nues (mil. dol.)
U.S.	6,254.5	868,343	16,055	175,829	267,490	VA.	137.3	22,172	439	3,885	6,304
N.E.	385.9	55,493	996	13,154	19,578	WV.	32.2	3,249	67	1,407	1,625
ME.	32.8	2,728	58	1,406	1,258	NC.	130.9	14,354	331	3,884	5,083
NH.	32.1	3,541	68	1,127	984	SC.	62.6	7,146	170	1,756	2,217
VT.	18.2	1,591	37	897	587	GA.	134.3	20,644	415	3,140	5,131
MA.	184.0	30,252	523	6,005	11,115	FL.	340.8	50,997	975	7,028	9,875
RI.	24.5	2,955	61	895	1,417	E.S.C.	286.0	33,760	723	8,638	11,777
CT.	94.3	14,426	250	2,824	4,216	KY.	74.9	7,267	166	2,213	2,655
M.A.	940.7	156,935	2,582	28,944	54,676	TN.	101.5	13,449	263	3,010	4,320
NY.	476.5	83,524	1,293	13,691	30,583	AL.	69.1	9,198	190	1,947	3,024
NJ.	198.3	35,953	596	4,196	7,618	MS.	40.5	3,846	84	1,468	1,778
PA.	265.9	37,458	694	10,857	16,475	W.S.C.	682.4	81,375	1,545	14,803	19,659
E.N.C.	925.7	120,455	2,459	30,592	49,332	AR.	49.1	4,295	94	1,579	1,751
OH.	232.1	29,471	648	8,222	12,973	LA.	92.3	11,583	241	2,087	3,334
IN.	117.5	12,605	282	4,396	5,389	OK.	91.1	7,575	149	2,133	2,616
IL.	277.0	40,742	730	7,907	15,201	TX.	449.9	57,922	1,061	8,004	11,959
MI.	203.5	26,574	533	6,205	10,827	Mt.	393.6	50,083	994	9,868	11,371
WI.	95.6	11,063	265	3,662	4,942	ID.	24.6	1,680	36	1,170	779
W.N.C.	459.9	46,896	1,021	17,372	20,282	MT.	25.7	2,355	48	727	594
MN.	121.9	13,196	295	4,412	5,781	WY.	14.4	1,041	22	640	403
IA.	69.0	5,830	131	3,122	2,928	CO.	125.8	13,236	256	2,780	3,580
MO.	122.9	15,173	324	3,679	6,078	NM.	36.4	4,655	88	1,232	1,124
ND.	16.6	1,244	28	920	843	AZ.	91.8	11,981	244	2,020	3,241
SD.	17.9	1,177	27	957	757	UT.	44.6	4,407	94	768	1,114
NE.	42.3	4,004	89	1,679	1,583	NV.	30.3	10,728	206	531	536
KS.	69.3	6,072	128	2,603	2,312	Pac.	1,180.2	175,020	2,802	25,457	36,438
S.A.	1,000.3	148,531	2,932	27,001	42,376	WA.	131.3	14,495	277	4,238	4,578
DE.	15.1	2,313	46	562	730	OR.	82.1	7,509	157	2,467	2,611
MD.	125.0	19,369	369	3,156	5,570	CA.	918.5	146,288	2,248	17,048	29,382
DC.	22.1	8,287	121	2,183	5,841	AK.	18.2	1,826	28	706	644
						HI.	30.1	4,902	92	998	1,222

¹ Number of establishments in business at any time during year. ² For the pay period including March 12. ³ Covers only establishments with payroll.

Source: U.S. Bureau of the Census, 1987 Census of Service Industries, Geographic Area Series, SC87-A-1 to 52 and Nonemployer Statistics Series, SC87-N-1 to 4.

No. 1378. Service Industries—Summary of Establishments, by Tax Status: 1987

[Data for firms subject to Federal income tax cover all establishments, except as noted. Data for firms exempt from Federal income tax cover 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 (\$1,000)	Annual payroll per employee (dol.)
(X)	Firms subject to Federal income tax⁵	6,254.5	866,343	289,807	16,054.7	138.8	18,051
70 ex. 704	Hotels, rooming houses, camps, and other lodging places ⁶	85.7	53,630	14,452	1,410.8	625.8	10,244
701	Hotels and motels ⁶	63.4	51,633	14,135	1,380.2	814.4	10,241
72	Personal services ⁶	1,037.4	43,247	10,853	1,105.0	41.7	9,822
721	Laundry, cleaning, and garment services	108.6	14,184	4,388	408.3	130.6	10,746
722	Photographic studios, portrait	56.2	2,929	514	50.1	52.1	10,253
723, 4	Beauty and barber shops	407.3	11,990	3,538	390.7	29.4	9,055
726	Funeral service and crematories	22.3	5,668	1,362	82.6	254.2	16,479
73	Business services ⁶	1,433.2	188,856	66,456	4,414.4	131.8	15,054
731	Advertising	79.2	16,802	5,537	181.6	212.1	30,483
732	Consumer credit, mercantile reporting agencies	^{87.1}	^{84,124}	^{1,415}	^{82.8}	^{958.8}	^{17,078}
733	Mailing, reproduction, commercial art ⁶	^{87.2}	^{812,407}	^{3,945}	^{210.6}	^{945.6}	^{18,729}
734	Services to dwellings and other buildings	290.4	15,649	6,555	746.0	53.9	8,788
735	Miscellaneous equipment rental and leasing	49.1	15,472	3,579	185.3	315.1	19,319
736	Personnel supply services	43.2	20,336	13,590	1,397.1	470.7	9,727
737	Computer programming, data processing ¹⁰	140.5	56,004	19,142	637.4	398.6	30,031
7381, 2	Detective agencies and protective services	45.2	9,303	5,040	475.8	205.8	10,594
75	Automotive repair, services, and parking	388.2	58,278	11,690	785.3	150.1	14,886
751	Automotive rental and leasing, without drivers	19.9	16,679	2,366	134.6	838.1	17,578
752	Automobile parking	10.5	2,691	491	45.7	256.3	10,751
753	Automotive repair shops	301.3	34,182	7,727	485.6	113.4	15,913
754	Automotive services, except repair	56.4	4,726	1,106	119.4	83.8	9,258
76	Miscellaneous repair services ⁶	247.6	24,597	6,416	345.8	99.3	18,551
762	Electrical repair shops	65.7	7,584	2,107	107.4	115.4	19,618
78, 79, 84	Amusement and recreation services ^{5, 11}	467.0	64,524	15,474	1,094.4	138.2	14,139
781, 2	Motion picture prod., distribution, services	37.1	20,778	4,973	171.3	560.1	29,029
783	Motion picture theaters	8.6	4,056	584	94.1	471.6	6,211
784	Video tape rental	24.7	2,920	581	79.6	118.2	7,300
792	Theatrical producers, bands, entertainers ¹²	186.9	7,725	1,607	55.2	41.3	29,092
793	Bowling centers	8.3	2,597	702	99.8	313.1	7,039
794	Commercial sports	50.6	5,966	2,047	75.5	117.9	27,106
7991	Physical fitness facilities	22.3	2,721	745	104.9	122.0	7,097
7996	Amusement parks	^{80.7}	^{83,470}	⁸²⁰	^{60.4}	^{84,663.8}	^{13,566}
7997	Membership sports and recreation clubs	^{87.7}	^{83,700}	^{1,173}	^{112.7}	^{483.1}	^{10,403}
80	Health services	800.6	196,211	78,820	3,592.5	245.1	21,940
801	Offices and clinics of doctors of medicine	297.7	96,698	43,856	1,131.6	324.8	38,756
802	Offices and clinics of dentists	131.3	25,258	8,760	491.5	192.4	17,822
8041	Offices and clinics of chiropractors	31.4	3,707	900	58.0	118.0	15,34
8042	Offices and clinics of optometrists	23.1	3,755	893	57.9	162.8	15,29
805	Nursing and personal care facilities	38.3	20,570	9,465	961.6	537.1	9,843
806	Hospitals	^{81.4}	^{819,720}	^{6,582}	^{366.5}	^{814,136.2}	^{17,958}
807	Medical and dental laboratories	^{814.8}	^{87,114}	^{2,567}	^{131.8}	^{479.4}	^{19,474}
808	Home health care services	^{5.1}	^{83,024}	^{1,578}	^{184.8}	^{595.3}	^{8,542}
81	Legal services	273.2	72,115	26,078	807.6	264.0	32,291
823, 4, 9	Selected educational services ⁵	155.9	6,102	1,657	109.4	39.1	15,144
824	Vocational schools	^{83.7}	^{83,058}	^{1,086}	^{65.3}	^{826.1}	^{16,637}
83	Social services ⁵	319.5	9,561	2,971	357.3	29.9	8,315
835	Child day care services	248.7	4,284	1,307	199.7	17.2	6,547
871	Engineering, architectural, and surveying services	195.3	57,051	23,175	747.0	292.1	31,024
872	Accounting, auditing, and bookkeeping services	250.1	26,612	10,204	448.1	106.4	22,768
873 ex. 8733	Research, development, and testing services ¹³	^{812.4}	^{814,184}	^{5,615}	^{222.2}	^{81,144.8}	^{25,266}
874	Management and public relations services	418.8	43,381	14,515	551.8	103.6	26,303
(X)	Firms exempt from Federal income tax⁵	175.8	267,490	117,976	6,736.7	1,521.3	17,513
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
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
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 Covers only establishments with payroll. ⁹ Includes photography and stenographic services. ¹⁰ Includes other computer related services. ¹¹ Includes motion pictures and museums. ¹² Excludes motion picture producers and includes orchestras.

¹³ Excludes noncommercial research organizations.

No. 1379. Services—Establishments, Employees, and Payroll: 1987 and 1988

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

1987 SIC code ¹	KIND OF BUSINESS	ESTABLISHMENTS (1,000)						Em- ploy- ees, 1988 (1,000)	Payroll, 1988 (bil. dol.)
		1987	1988						
			Total	1-4 employ- ees	5-19 employ- ees	20-99 employ- ees	100 or more employ- ees		
(0)	Services, total ²	1,990.1	1,937.5	1,150.1	598.2	155.2	36.0	25,143	477.8
70	Hotels and other lodging places ²	51.4	49.0	23.9	13.5	8.7	2.8	1,385	15.8
701	Hotels and motels	(NA)	38.8	16.3	11.4	8.3	2.8	1,333	15.2
72	Personal services ²	184.4	177.3	112.4	57.2	8.9	0.8	1,101	11.7
721	Laundry, cleaning, and garment services ²	(NA)	48.1	28.2	16.0	3.5	0.4	406	4.7
7215	Coin-operated laundries and cleaning	(NA)	11.7	8.7	2.7	0.2	(Z)	45	0.4
7216	Drycleaning plants, except rug	(NA)	19.4	9.0	8.9	1.5	(Z)	158	1.6
723	Beauty shops	(NA)	75.3	48.4	25.2	1.7	(Z)	363	3.5
726	Funeral service and crematories	(NA)	15.1	8.8	5.8	0.4	(Z)	81	1.5
73	Business services	248.0	250.5	138.0	74.9	28.9	8.8	4,385	78.0
731	Advertising	(NA)	17.9	10.4	5.7	1.6	0.3	194	6.5
7311	Advertising agencies	(NA)	12.0	6.8	4.0	1.0	0.2	136	4.9
733	Mailing, reproduction, and stenographic services	(NA)	25.2	15.9	7.2	1.8	0.3	219	4.6
734	Services to buildings	(NA)	44.0	23.5	14.7	4.7	1.2	743	7.3
735	Miscellaneous equipment rental and leasing	(NA)	24.0	13.0	9.1	1.8	0.1	193	4.3
736	Personnel supply services ²	(NA)	24.4	9.3	5.7	5.8	3.6	1,247	16.2
7361	Employment agencies	(NA)	11.8	6.5	3.6	1.3	0.3	169	2.9
7363	Help supply services	(NA)	12.6	2.8	2.1	4.5	3.3	1,076	13.2
737	Computer and data processing services ²	(NA)	37.9	21.2	10.7	4.8	1.2	679	22.7
7371	Computer programming services	(NA)	13.2	7.9	3.4	1.4	0.4	203	7.8
7374	Data processing and preparation	(NA)	6.8	2.9	2.1	1.3	0.5	216	5.4
738	Miscellaneous business services	(NA)	60.5	33.0	18.2	7.3	1.9	1,001	14.3
7381	Detective and armored car services	(NA)	9.4	3.5	2.5	2.3	1.1	436	4.4
75	Automotive repair, services, and parking ²	149.8	145.5	94.1	45.9	5.1	0.4	813	13.2
751	Automotive rentals, no drivers	(NA)	11.4	5.5	4.4	1.2	0.3	150	2.8
753	Automotive repair shops ²	(NA)	108.2	72.6	33.5	2.0	(Z)	483	8.5
7532	Top and body repair and paint shops	(NA)	30.7	18.7	11.2	0.9	(Z)	162	3.0
7538	General automotive repair shops	(NA)	52.2	38.0	13.5	0.7	(Z)	202	3.4
754	Automotive services, except repair	(NA)	15.5	8.3	5.6	1.6	(Z)	128	1.3
76	Miscellaneous repair services	64.1	61.8	41.4	17.5	2.8	0.2	356	7.3
762	Electrical repair shops	(NA)	17.1	11.2	5.0	0.9	0.1	107	2.4
78	Motion pictures ²	34.9	33.5	18.4	12.1	2.8	0.2	370	6.7
781	Motion picture production and services	(NA)	9.0	6.5	1.8	0.6	0.1	159	4.5
784	Video tape rental	(NA)	15.5	8.8	6.3	0.5	(Z)	87	0.6
79	Amusement and recreation services ²	72.4	70.5	39.8	20.2	9.5	1.1	909	13.2
7997	Membership sports and recreation clubs	(NA)	13.5	6.8	3.4	3.0	0.3	223	3.0
80	Health services ²	424.2	417.2	244.1	136.6	25.3	11.2	7,222	159.1
801	Offices and clinics of medical doctors	(NA)	192.0	118.6	64.9	7.7	0.7	1,242	51.1
802	Offices and clinics of dentists	(NA)	102.2	58.4	42.7	1.1	(Z)	499	10.0
8041	Offices and clinics of chiropractors	(NA)	20.1	16.2	3.7	0.1	(Z)	61	1.0
8042	Offices and clinics of optometrists	(NA)	15.3	11.2	4.0	0.1	(Z)	58	1.0
805	Nursing and personal care facilities	(NA)	18.0	1.9	2.0	9.1	4.9	1,358	15.1
806	Hospitals	(NA)	5.2	0.2	0.1	0.8	4.2	3,213	67.2
807	Medical and dental laboratories	(NA)	14.3	8.7	4.4	1.0	0.2	139	3.0
808	Home health care services	(NA)	7.5	2.5	2.0	2.3	0.7	303	3.2
81	Legal services	139.8	135.7	98.8	30.1	6.0	0.8	849	30.3
82	Educational services ²	34.2	33.2	11.4	10.9	8.7	2.2	1,631	25.0
821	Elementary and secondary schools	(NA)	14.5	2.4	5.5	6.0	0.7	434	5.7
822	Colleges and universities	(NA)	3.0	0.4	0.5	0.8	1.3	1,013	16.3
83	Social services ²	104.2	104.8	43.7	44.2	14.6	2.3	1,532	16.6
832	Individual and family services	(NA)	25.9	12.3	9.8	3.3	0.5	355	4.4
833	Job training and related services	(NA)	6.7	1.9	2.3	1.8	0.7	271	2.3
835	Child day care services	(NA)	39.2	15.5	19.4	4.2	0.1	368	2.8
836	Residential care	(NA)	19.3	6.5	8.4	3.7	0.6	358	4.2
86	Membership organizations ²	221.6	214.3	129.2	67.3	16.4	1.4	1,778	19.4
861	Business associations	(NA)	12.0	8.0	3.2	0.7	0.1	92	2.3
863	Labor organizations	(NA)	20.0	11.1	7.3	1.5	0.1	179	2.5
864	Civic and social associations	(NA)	39.0	24.8	10.5	3.4	0.4	330	3.1
866	Religious organizations	(NA)	126.8	74.5	42.0	9.7	0.7	1,036	8.7
87	Engineering and management services ²	204.1	199.0	122.7	56.9	16.3	3.1	2,302	67.7
8711	Engineering services	(NA)	35.6	18.7	11.4	4.6	0.9	592	21.0
8712	Architectural services	(NA)	17.1	9.8	5.9	1.2	0.1	141	4.5
872	Accounting, auditing, and bookkeeping	(NA)	66.2	44.8	17.8	3.1	0.5	498	11.9
873	Research and testing services	(NA)	15.1	7.4	4.9	2.3	0.6	360	10.3
8731	Commercial physical research	(NA)	3.9	1.8	1.2	0.7	0.2	159	5.6
8741	Management services	(NA)	17.1	9.4	5.0	2.2	0.5	283	6.9
8742	Management consulting services	(NA)	26.0	18.3	5.8	1.6	0.3	218	7.4

NA Not available. Z Less than 50. ¹ Based on 1987 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, 1988*.

No. 1380. Service Industries—Annual Receipts of Taxable Firms: 1980 to 1989

(In millions of dollars. Estimated)

1972 SIC code ¹	KIND OF BUSINESS	1980	1985	1986	1987	1988	1989
70	Hotels, camps, and other lodging places	(NA)	45,867	48,106	54,136	58,884	61,090
701	Hotels, motels, and tourist courts	26,952	43,472	45,779	51,633	56,065	58,138
72	Personal services	25,133	39,367	42,848	47,039	54,074	59,553
721	Laundry, cleaning, and garment services	9,213	12,841	13,279	14,160	15,796	16,732
723	Beauty shops	5,798	9,028	9,673	10,639	11,733	12,992
726	Funeral services and crematories	3,491	5,203	5,408	5,668	6,116	6,218
73	Business services	(NA)	207,311	226,923	247,841	289,144	318,234
731	Advertising	(NA)	14,941	15,804	16,803	18,340	19,023
7311	Advertising agencies	(NA)	11,100	11,748	12,019	13,154	13,627
733	Mailing, reproduction, and stenographic services	(NA)	12,932	14,087	15,827	17,771	19,385
7333	Commercial photography, art, and graphics	(NA)	5,727	5,914	6,690	7,312	8,149
734	Services to dwellings and other buildings	(NA)	13,303	14,648	15,649	17,472	20,101
7349	Cleaning and maintenance services to dwellings, and other buildings, n.e.c.	(NA)	10,467	11,725	12,313	13,811	16,197
736	Personnel supply services	(NA)	17,680	19,993	24,044	28,576	31,626
7361	Employment agencies	(NA)	3,414	3,705	3,940	4,801	5,598
7362	Temporary help supply services	(NA)	11,775	12,691	16,331	19,870	21,626
737	Computer and data processing services	(NA)	45,165	50,587	56,004	66,443	74,083
7372	Computer programming and other software services	(NA)	21,026	24,030	28,110	34,780	40,530
7374	Data processing services	(NA)	15,159	16,414	17,022	18,668	19,959
7379	Computer related services, n.e.c. ³	(NA)	9,981	10,143	10,872	12,795	13,594
7391	Research and development laboratories ⁴	(NA)	7,661	8,824	9,198	11,236	12,941
7392	Management, consulting, and public relations services ⁴	(NA)	39,543	42,304	44,252	52,528	57,324
7393	Detective agencies and protective services	(NA)	7,327	8,161	9,303	10,681	11,416
7394	Equipment rental and leasing services	(NA)	15,702	16,294	16,693	20,043	21,326
75	Automotive repair, services, and garages ²	30,547	51,804	53,898	58,278	66,201	71,392
751	Automotive rental and leasing	8,759	14,620	15,497	16,679	18,733	19,364
7512	Passenger car rental and leasing	4,691	8,776	9,368	9,978	11,169	11,714
7513	Truck rental and leasing	3,968	5,485	5,793	6,451	7,283	7,358
753	Automotive repair shops	18,077	30,587	31,599	34,182	38,530	41,942
76	Miscellaneous repair services	15,424	20,726	22,445	24,599	27,351	29,374
78	Motion pictures	12,509	18,850	20,948	24,834	27,424	30,608
781.2	Motion picture production, distribution, allied services	(NA)	15,063	17,033	20,778	23,271	26,134
79	Amusement and recreation services ²	(NA)	29,756	32,170	34,476	37,820	39,969
792	Theatrical producers, bands, orchestras, and entertainers ⁴	(NA)	6,381	7,623	7,725	8,183	7,636
794	Commercial sports	(NA)	5,029	5,054	5,966	6,691	7,315
80	Health services ^{2,5}	(NA)	146,517	161,604	182,289	204,251	221,692
801	Offices of physicians	38,754	66,767	72,600	83,812	94,395	101,733
802	Offices of dentists	12,639	20,377	21,691	23,787	25,793	27,592
804	Offices of other health practitioners ⁴	(NA)	7,864	8,791	10,340	12,022	12,437
805	Nursing and personal care facilities ⁴	(NA)	17,462	19,040	20,063	21,246	23,104
806	Hospitals ⁴	(NA)	15,724	18,068	19,720	21,740	22,685
808	Outpatient care facilities ⁴	(NA)	7,118	8,814	10,654	12,596	15,484
81	Legal services ²	(NA)	52,842	58,897	66,998	75,953	83,066
891	Engineering and architectural services	(NA)	49,306	51,319	57,051	62,881	73,631
893	Accounting, auditing, and bookkeeping	(NA)	21,241	22,911	26,612	29,695	33,303
4722	Arrangement of passenger transportation	(NA)	8,078	6,424	7,053	7,819	8,654
653	Real estate agents and managers ⁵	(NA)	31,257	34,859	38,145	42,121	44,052

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 1381. ⁵ Excludes nonemployers.

No. 1381. Selected Service Industries—Annual Revenues of Tax-Exempt Firms: 1985 and 1989

(In millions of dollars. Estimated)

1972 SIC code ¹	KIND OF BUSINESS	1985	1989	1972 SIC code ¹	KIND OF BUSINESS	1985	1989
7391,2,7	Selected business services ²	3,595	6,105	81	Legal services	478	811
792,7997,	Selected amusement			833	Job training and vocational		
7999	services	5,186	7,441		rehabilitation services	3,129	4,439
805,6,8,9	Selected health services ⁴	115,488	181,317	835	Child day care services	1,781	2,666
805	Nursing and personal care			836	Residential care	4,948	8,038
	facilities	6,818	10,361	892	Noncommercial educational,		
806	Hospitals	99,054	155,308		scientific, and research		
808	Outpatient care facilities	7,040	11,383		organizations	3,451	4,848

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 1380 and 1381: U.S. Bureau of the Census, *Current Business Reports*, series BS, 1989 Service Annual Survey.

No. 1382. Computer Programming and Data Processing—Summary, by Kind of Business: 1982 and 1987

[Covers establishments with payroll subject to Federal income tax]

1987 SIC code ¹	KIND OF BUSINESS	ESTABLISH- MENTS		RECEIPTS (mil. dol.)		PAID EMPLOYEES (1,000)	
		1982	1987	1982	1987	1982	1987
737	Computer programming, data processing, total	21,537	39,701	21,810	54,099	353.5	637.4
7371,2,3	Computer programming, prepackaged software, and integrated systems design	9,925	21,594	8,186	27,154	126.6	306.2
7371	Computer programming services	(NA)	14,687	(NA)	14,170	(NA)	184.2
7372	Prepackaged software	(NA)	3,392	(NA)	5,894	(NA)	55.7
7373	Computer integrated systems design	(NA)	3,515	(NA)	7,090	(NA)	66.3
7374,5,6	Data processing services	7,083	8,533	10,099	16,443	183.4	234.4
7374	Computer processing and data preparation and processing services	(NA)	7,332	(NA)	14,068	(NA)	202.7
7375	Information retrieval services	(NA)	463	(NA)	1,176	(NA)	13.1
7376	Computer facilities management services	(NA)	738	(NA)	1,198	(NA)	18.5
7377,8,9	Computer rental and leasing, maintenance, and related services, n.e.c.	4,529	9,574	3,526	10,502	43.5	96.8
7377	Computer rental and leasing	(NA)	1,061	(NA)	2,166	(NA)	8.7
7378	Computer maintenance and repair	(NA)	3,693	(NA)	5,749	(NA)	53.3
7379	Computer related services, n.e.c.	(NA)	4,820	(NA)	2,588	(NA)	34.9

NA Not available. ¹ Based on 1987 Standard Industrial Classification; see text, section 13. ² N.e.c. means not elsewhere classified.

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

No. 1383. Computer Programming and Data Processing—Establishments, Employees, and Payroll: 1988

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

1987 SIC code ¹	KIND OF BUSINESS	Estab- lish- ments	Em- ploy- ees (1,000)	Annual payroll (mil. dol.)	STATE	COMPUTER PROGRAMMING, DATA PROCESSING (SIC 737)		
						Estab- lish- ments	Em- ploy- ees (1,000)	Annual payroll (mil. dol.)
737	Computer programming, data processing, total	37,894	676.9	22,678	CA	6,256	110.3	3,967
7371	Computer programming services	13,182	202.5	7,781	FL	1,735	27.0	837
7372	Prepackaged software	3,156	58.3	2,473	IL	1,862	32.9	1,132
7373	Computer integrated systems design	3,495	64.4	2,483	MD	1,134	33.4	1,214
7374	Computer processing and data preparation and processing services	6,811	217.9	5,446	MA	1,453	39.3	1,574
7375	Information retrieval services	494	13.9	396	NJ	2,291	34.9	1,307
7376	Computer facilities management services	731	22.2	606	NY	3,181	45.7	1,582
7377	Computer rental and leasing	954	8.8	378	TX	2,674	51.6	1,649
7378	Computer maintenance and repair	3,644	50.1	1,858	VA	1,411	46.0	1,593
7379	Computer related services, n.e.c. ²	4,674	39.5	1,415				

¹ Based on 1987 Standard Industrial Classification; see text, section 13. ² N.e.c. means not elsewhere classified.

Source: U.S. Bureau of the Census, *County Business Patterns 1988*.

No. 1384. National Nonprofit Associations—Number, by Type: 1980 to 1990

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

TYPE	1980	1985	1989	1990	TYPE	1980	1985	1989	1990
Total	14,726	19,121	21,911	22,289	Fraternal, foreign interest, nationality, ethnic	435	492	570	573
Trade, business, commercial	3,118	3,719	3,806	3,918	Religious	797	953	1,169	1,172
Agriculture	677	882	914	940	Veteran, hereditary, patriotic	208	281	404	462
Legal, governmental, public admin., military	529	658	775	792	Hobby, avocational	810	1,311	1,471	1,475
Scientific, engineering, tech	1,039	1,270	1,363	1,417	Athletic sports	504	737	839	840
Educational	2,376	2,822	1,268	1,281	Labor unions	235	252	254	253
Cultural	2,376	2,822	1,872	1,886	Chambers of Commerce Greek and non-Greek	105	142	168	168
Social welfare	994	1,450	1,686	1,705	letter societies	318	331	337	340
Health, medical	1,413	1,886	2,162	2,227	Fan clubs	(NA)	(NA)	561	581
Public affairs	1,068	1,935	2,292	2,249					

NA Not available. ¹ National and binational.

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



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*. 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 are presented monthly in *U.S. Merchandise Trade*, report series FT 900, and *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption*, report series FT 925. 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. 1385-1387) 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. 1388) 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 program 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 include estimates based upon selected samples of such shipments. The dollar value of the "low-valued" shipments have varied. For instance, effective January 1987 through September 1989, data are estimated for shipments valued under \$1,501; from October 1989 through December 1989, data are estimated for shipments valued under \$2,501 to all countries.

Effective January 1990, the United States is substituting Canadian import statistics for U.S. exports to Canada. As a result of the data exchange between the U.S. and Canada, the U.S. has adopted the Canadian import exemption level for its export statistics based on shipments to Canada.

Data are estimated for shipments valued under \$2,501 to all countries, except Canada, using factors based on the ratios of lowvalued shipments to individual country totals. These shipments represent slightly less than 2.5 percent of the monthly value of U.S. exports to those countries. Data are estimated for shipments reported on Canadian import documents which total less than \$900 (Canadian). Such shipments represent 2 percent of the monthly value of U.S. exports to Canada.

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 instance, from January 1985 through September 1989, import statistics include estimates for shipments valued under \$1,001. Effective October 1989, import statistics are fully compiled on shipments valued over \$1,250 or, under certain textile programs, for any article which must be reported on a formal entry. Value data for shipments valued under \$1,251 and not required to be reported on formal entries are estimated for individual countries using factors based on the ratios of low-valued shipments to individual country totals for past periods. The estimated low-valued shipments generally amount to slightly less than 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. 1385. U.S. International Transactions, by Type of Transaction: 1980 to 1990

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

TYPE OF TRANSACTION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Exports of goods and services¹	343,241	379,414	355,060	343,877	379,318	366,049	364,135	432,134	533,438	603,189	648,738
Merchandise, excl. military ^{2,3}	224,269	237,085	211,198	201,820	219,900	215,935	223,367	250,268	320,337	360,465	388,286
Foods, feeds, and beverages	36,445	36,845	32,228	32,116	32,197	24,513	23,780	25,252	33,734	36,581	35,253
Industrial supplies and materials	72,287	70,428	64,028	59,146	64,148	64,823	64,928	69,978	88,980	98,481	108,014
Capital goods, except automotive	76,259	83,915	76,028	71,308	77,041	79,618	82,908	92,352	119,005	130,049	153,946
Automotive vehicles and parts ⁴	17,350	18,915	17,422	18,620	22,581	25,144	25,331	28,131	33,868	34,689	36,600
Consumer goods (nonfood) ⁵	17,698	17,778	16,182	15,040	14,962	14,381	16,275	20,275	28,869	35,384	42,977
Services	47,564	57,354	59,516	60,065	68,483	67,832	79,768	91,332	103,053	115,169	130,623
Transfers under U.S. military agency sales contracts	9,029	10,720	12,572	12,524	9,969	8,699	8,596	11,273	9,520	8,331	10,180
Travel	10,588	12,913	12,393	10,847	9,708	17,963	20,273	23,366	28,935	34,432	39,253
Passenger fares	2,591	3,111	3,174	4,323	4,014	5,457	5,457	6,866	8,771	10,101	11,650
Other transportation	11,618	12,560	12,317	12,580	13,809	14,674	15,458	16,988	18,039	20,18	22,000
Royalties and license fees	7,065	7,284	5,177	5,278	5,829	5,995	7,254	9,080	10,858	11,815	14,795
Other private services	6,276	9,120	13,308	14,472	15,268	15,801	52,153	23,251	25,359	29,46	31,646
U.S. Government misc. services	368	517	578	686	714	878	595	526	872	613	688
Income on U.S. assets abroad	71,388	84,975	85,346	81,972	92,935	82,282	80,962	90,636	110,048	127,536	128,829
Direct investment	37,148	32,549	24,717	26,822	29,984	28,285	30,900	40,588	49,818	53,617	54,137
Other private receipts	31,680	48,746	56,512	50,318	57,725	48,487	43,669	44,638	53,530	66,377	64,796
U.S. Government receipts	2,562	3,680	4,118	4,832	5,227	5,489	6,413	5,311	6,699	5,542	9,897
Imports of goods, services and income	-333,774	-364,192	-352,154	-374,065	-465,703	-472,908	-513,519	-579,873	-647,295	-698,483	-726,961
Merchandise, excl. military ^{2,3}	-248,750	-265,063	-247,642	-268,900	-332,422	-338,083	-368,425	-409,766	-447,323	-475,329	-497,966
Foods, feeds, and beverages	18,548	18,531	17,462	18,871	21,873	24,346	24,929	24,809	24,929	25,057	26,648
Industrial supplies and materials	132,256	134,944	110,922	108,183	124,026	113,678	104,263	113,746	122,683	134,945	144,451
Capital goods, except automotive	31,420	36,912	38,407	43,193	60,460	61,434	72,139	85,129	102,203	113,134	117,236
Automotive vehicles and parts ⁴	28,058	30,885	34,040	43,218	56,561	65,077	78,110	85,174	87,948	85,997	86,129
Consumer goods (nonfood) ⁵	34,222	38,302	39,661	47,200	61,155	66,345	79,179	88,824	96,424	102,812	106,248
Services	-41,491	-45,503	-47,415	-50,616	-63,738	-68,710	-75,061	-84,897	-91,534	-94,706	-107,899
Direct defense expenditures	-10,851	-11,954	-12,480	-12,685	-12,116	-12,795	-13,503	-14,803	-14,872	-14,651	-16,593
Travel	-10,367	-11,479	-12,394	-13,149	-13,305	-15,155	-16,746	-18,022	-19,022	-19,877	-20,376
Passenger fares	-3,907	-4,487	-4,772	-6,003	-5,878	-6,650	-6,666	-7,411	-7,932	-8,529	-9,529
Other transportation	-11,780	-12,474	-11,710	-12,222	-14,843	-16,715	-16,086	-18,086	-19,675	-20,791	-23,520
Royalties and license fees	-724	-850	-617	-723	-855	-881	-1,062	-1,245	-2,054	-2,245	-2,703
Other private services	-2,909	-3,562	-4,003	-4,264	-5,108	-5,840	-6,703	-11,318	-11,843	-11,481	-14,756
U.S. Government miscellaneous services	-1,214	-1,287	-1,460	-1,568	-1,534	-1,735	-1,686	-1,883	-1,980	-2,242	-2,222
Income on foreign assets in U.S.	-42,532	-53,626	-57,097	-54,549	-69,542	-66,115	-70,013	-85,210	-108,438	-128,448	-121,296
Direct investment	-8,635	-6,988	-3,155	-5,598	-9,229	-8,078	-9,578	-16,748	-14,004	-14,771	-16,004
Other private payments	-21,214	-29,415	-34,659	-29,958	-39,158	-37,064	-40,563	-50,419	-61,526	-78,489	-79,063
U.S. Government payments	-12,684	-17,313	-18,282	-18,983	-21,155	-22,972	-24,071	-25,291	-30,164	-35,955	-37,462
Unilateral transfers (excl. military grants, net)	-8,349	-8,331	-9,775	-9,956	-12,821	-15,473	-16,009	-14,575	-15,005	-14,720	-21,073
U.S. Government grants	-5,486	-5,145	-6,087	-6,468	-8,696	-11,267	-11,867	-10,276	-10,744	-10,963	-19,972
U.S. Govt. pensions other transfers	-1,818	-2,041	-2,251	-2,207	-2,159	-2,138	-2,137	-2,212	-2,491	-2,432	-2,946
Private remittances and other transfers	-1,044	-6,144	-1,438	-1,280	-1,786	-2,063	-1,946	-2,087	-1,770	-1,326	-1,163

TYPE OF TRANSACTION	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
U.S. assets abroad, net (increase/capital outflow (-))											
U.S. official reserve assets, net	-88,118	-110,951	-124,490	-56,100	-31,070	-27,721	-92,030	-62,946	-84,176	-127,061	-61,251
Special drawing rights	-8,155	-5,175	-4,965	-1,196	-3,131	-3,858	312	9,149	1,127	-25,293	-2,158
Reserve position in the International Monetary Fund	-16	-18	-16	-4,334	-995	908	1,501	2,070	912	-535	-192
Foreign currencies	-1,667	-2,491	-2,552	-4,434	-895	908	1,501	2,070	912	-535	-192
U.S. Govt. assets, other than official reserve assets, net	-6,472	-861	-1,041	3,304	-1,156	-3,869	-942	7,568	-5,064	-25,229	-2,697
U.S. credits and other long-term assets	-5,162	-5,097	-6,131	-6,006	-5,489	-2,821	-2,022	997	2,969	1,185	2,971
Repayments on U.S. credits and other long-term assets	-9,860	-9,674	-10,063	-9,967	-9,598	-7,657	-8,084	-6,515	-7,674	-5,513	-6,929
U.S. foreign currency holdings and U.S. short-term assets, net	4,456	4,413	4,292	5,012	4,490	4,719	6,089	7,625	10,378	6,548	9,955
U.S. private assets, net	242	164	-360	-51	-379	117	873	-113	265	151	-56
Direct investments abroad	-72,802	-100,679	-113,394	-49,898	-22,451	-21,043	-90,321	-73,091	-83,232	-102,853	-82,083
Foreign securities	-19,222	-9,624	-9,667	-6,695	-11,587	-13,162	-18,679	-31,045	-16,218	-31,722	-36,371
U.S. claims on unaffiliated foreigners reported by U.S. nonbanking concerns	-3,568	-5,699	-7,983	-6,762	-4,756	-7,481	-5,251	-7,846	-17,946	-21,938	-26,785
U.S. claims reported by U.S. banks, n.i.e. ^a	-3,174	-1,181	6,628	-6,513	5,019	923	-7,396	5,324	-2,947	1,391	(NA)
	-46,898	-84,175	-111,070	-28,928	-11,127	-1,323	-59,975	-42,119	-56,322	-50,684	816
Foreign assets in the U.S., net (increase/capital inflow (+))											
Foreign official assets in the U.S., net	56,112	83,032	93,746	84,869	102,621	130,012	221,599	218,470	221,442	214,852	87,545
U.S. Government securities	15,497	4,960	3,593	5,845	3,140	-1,083	35,586	45,210	39,515	8,823	30,778
U.S. Treasury securities	11,895	6,322	5,085	6,496	4,703	-1,139	33,150	44,802	43,050	1,716	28,371
Other	9,708	5,019	5,779	6,972	4,690	-838	34,364	43,236	41,741	333	28,704
Other U.S. Government liabilities	2,187	1,303	694	-476	13	-301	-1,214	1,584	-1,309	1,383	667
U.S. liabilities reported by U.S. banks, n.i.e. ^a	615	-338	605	602	739	880	2,135	-2,503	-710	332	1,486
Other foreign official assets	-159	-3,870	-1,747	545	555	1,187	1,187	3,918	-319	4,940	1,495
Other foreign assets in the U.S., net	3,145	2,646	-350	-1,798	-2,857	-1,469	-884	-1,007	-2,506	1,835	-1,574
Direct investments in U.S.	42,615	78,072	90,154	79,023	99,481	131,096	186,011	173,260	181,927	205,839	56,767
U.S. Treasury securities	16,918	25,195	13,792	19,946	25,359	19,022	34,091	46,694	58,436	73,244	25,709
U.S. securities other than U.S. Treasury securities	9,645	5,297	5,027	8,699	23,001	20,433	3,809	20,239	20,333	29,951	1,144
U.S. liabilities to unaffiliated foreigners reported by U.S. nonbanking concerns	5,457	6,905	6,085	8,164	12,568	50,962	70,969	42,120	26,353	39,568	4,096
U.S. liabilities reported by U.S. banks, n.i.e. ^a	6,852	917	-2,383	-118	4,704	-366	-2,641	2,963	6,664	2,867	(NA)
	10,743	42,128	65,633	50,342	33,849	41,045	75,763	89,026	70,235	61,199	19,766
Allocations of special drawing rights											
Statistical discrepancy	25,736	19,934	36,612	-	-	-	-	-	-	-	-
Balance on merchandise trade	-25,491	-27,978	-36,444	-67,080	-112,522	-122,148	-145,058	-159,500	-126,986	-114,864	-73,002
Balance on services	6,033	11,852	12,101	9,469	2,744	-877	1,706	6,334	11,519	20,463	22,923
Balance on investment income	28,856	31,349	28,250	27,423	23,394	18,165	9,326	5,326	1,610	9,913	7,553
Balance on goods, services, and income	9,467	15,223	3,907	-30,168	-66,385	-106,959	-129,384	-147,739	-113,957	-95,314	-76,224
Unilateral transfers, net	-8,349	-8,331	-9,775	-9,956	-12,621	-15,473	-16,009	-14,575	-15,005	-14,720	-21,073
Balance on current account	1,119	6,892	-5,868	-40,143	-99,006	122,332	-145,393	-162,314	-128,862	-110,034	-89,297

^a 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. ³ Excludes imports of goods under direct defense expenditures identified in Census import documents. ⁴ Includes various other adjustments for valuation, coverage, and timing of Census statistics to a balance of payments basis. ⁵ Includes other end-use items, not shown separately. ⁶ Includes engines. ⁷ Excludes automotive. ⁸ Break in series due to inclusion of new data. See Technical Note in *Survey of Current Business*, June 1979. ⁹ Includes sales of foreign obligations to foreigners. ¹⁰ Not included elsewhere. ¹¹ Includes foreign currency notes sold to private residents abroad.

Sources: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1990 and March 1991.

No. 1386. U.S. International Transactions—Summary: 1960 to 1990

(In billions of dollars. Reserve assets are for end of period. Minus sign (-) indicates debits, see headnote, table 1385)

YEAR	Merchandise trade balance ¹	Net investment income	Net military transactions	Net travel and transportation receipts	Other services, net	Balance on goods, services, and income	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	-1.1	-1.0	0.6	6.9	-4.1	2.8	2.3	-4.1	19.4
1965.....	5.0	5.3	-0.5	-1.3	1.5	10.0	-4.6	5.4	0.7	-5.7	15.5
1966.....	3.8	5.0	-1.0	-1.3	1.5	8.0	-5.0	3.0	3.7	-7.3	14.9
1967.....	3.8	5.3	-1.2	-1.8	1.7	7.9	-5.3	2.6	7.4	-9.8	14.8
1968.....	0.6	6.0	-0.6	-1.5	1.8	6.2	-5.6	0.6	9.9	-11.0	15.7
1969.....	0.6	6.0	-0.7	-1.8	2.0	6.1	-5.7	0.4	12.7	-11.6	17.0
1970.....	2.6	6.2	-0.6	-2.0	2.3	8.5	-6.2	2.3	6.4	-9.3	14.5
1971.....	-2.3	7.3	0.7	-2.3	2.6	6.0	-7.4	-1.4	23.0	-12.5	12.2
1972.....	-6.4	8.2	1.1	-3.1	3.0	2.7	-8.5	-5.8	21.5	-14.5	13.2
1973.....	0.9	12.2	0.7	-3.2	3.4	14.1	-6.9	7.1	18.4	-22.9	14.4
1974.....	-5.5	15.5	0.2	-3.2	4.2	11.2	-9.2	2.0	34.2	-34.7	15.9
1975.....	8.9	12.8	1.5	-2.8	4.9	25.2	-7.1	18.1	15.7	-39.7	16.2
1976.....	-9.5	16.0	0.9	-2.6	5.0	9.9	-5.7	4.2	36.5	-51.3	18.7
1977.....	31.1	18.0	1.7	-3.6	5.7	-9.3	-5.2	-14.5	51.3	-34.8	19.3
1978.....	-33.9	20.1	0.9	-3.6	6.9	-9.6	-5.8	-15.4	64.0	-61.1	18.7
1979.....	-27.5	30.1	-1.3	-2.9	7.3	5.6	-6.6	-1.0	38.8	-64.3	19.0
1980.....	-25.5	28.9	-1.8	-1.0	8.9	9.5	-8.3	1.1	58.1	-86.1	26.8
1981.....	-28.0	31.3	-0.8	0.1	12.6	15.2	-8.3	6.9	83.0	-111.0	30.1
1982.....	-36.4	28.3	0.1	-1.0	13.0	3.9	-9.8	-5.9	93.7	-124.5	34.0
1983.....	-67.1	27.4	-0.2	-4.2	13.9	-30.2	-10.0	-40.1	84.9	-56.1	33.7
1984.....	-112.5	23.4	-2.1	-9.2	14.0	-86.4	-12.6	-99.0	102.6	-31.1	34.9
1985.....	-122.1	16.2	-4.1	-10.8	14.0	-106.9	-15.5	-122.3	130.0	-27.7	43.2
1986.....	-145.1	11.0	-4.9	-8.9	18.6	-129.4	-16.0	-145.4	221.6	-92.0	48.5
1987.....	-159.5	5.3	-3.5	-8.3	18.3	-147.7	-14.6	-162.3	218.5	-62.9	45.8
1988.....	-127.0	1.6	-5.5	-4.1	21.0	-113.9	-15.0	-128.9	221.4	-84.2	47.8
1989.....	-114.9	-0.9	-6.3	0.7	26.1	-95.3	-14.7	-110.0	214.7	-127.1	74.6
1990.....	-108.7	7.5	-6.4	1.7	27.6	-78.2	-21.1	-99.3	87.5	-61.3	83.3

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. 1387. U.S. Balances on International Transactions, by Area and Selected Country: 1988 to 1990**

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

AREA OR COUNTRY	1988, BALANCE ON—			1989, BALANCE ON—			1990, BALANCE ON—		
	Merchandise trade ¹	Goods, services, and income	Current account	Merchandise trade ¹	Goods, services, and income	Current account	Merchandise trade ¹	Goods, services, and income	Current account
All areas.....	-126,986	-113,857	-128,862	-114,864	-95,314	-110,034	-108,680	-78,224	-99,297
Western Europe.....	-16,193	-31,579	-31,643	-3,826	-15,969	-15,458	2,255	-6,268	-4,987
European Economic Community ²	-11,569	-25,948	-25,093	-871	-12,260	-11,242	4,937	-5,192	-3,061
United Kingdom.....	413	-12,566	-12,024	2,408	-10,412	-9,971	2,967	-12,137	-11,406
Belgium-Luxembourg.....	2,880	4,327	4,298	3,920	5,419	5,388	(NA)	(NA)	(NA)
France.....	-2,587	-1,003	-1,102	1,310	1,373	1,274	(NA)	(NA)	(NA)
West Germany.....	-12,059	-20,197	-19,107	-8,263	-14,488	-13,105	(NA)	(NA)	(NA)
Italy.....	-4,843	4,209	-4,459	-4,782	-4,230	4,520	(NA)	(NA)	(NA)
Netherlands.....	3,761	4,106	4,081	6,327	6,780	6,754	(NA)	(NA)	(NA)
Other Western Europe.....	-4,624	-5,631	-6,550	-2,955	-3,709	-4,216	-2,682	-1,076	-1,926
Eastern Europe.....	1,666	1,684	1,291	3,513	4,273	3,859	2,043	2,375	1,910
Canada.....	-10,424	2,159	1,828	-9,662	3,868	3,514	-9,436	3,862	3,578
Latin America, other Western Hemisphere.....	-7,790	-7,696	-10,805	-8,613	-7,144	-10,384	-10,167	-9,966	-13,580
Mexico.....	-2,730	-2,962	-3,538	2,428	-2,130	-2,710	(NA)	(NA)	(NA)
Venezuela.....	-635	88	61	-3,803	-3,031	-3,061	(NA)	(NA)	(NA)
Australia.....	3,290	6,581	6,505	4,257	7,747	7,694	3,897	7,015	6,934
Japan.....	-52,618	-50,525	50,633	-49,782	-43,811	-43,945	-41,820	-32,552	-32,297
Other Asia and Africa.....	-44,969	-37,188	-46,969	-50,926	-47,567	-57,405	-56,152	-46,824	-63,605
South Africa.....	154	562	540	124	561	519	(NA)	(NA)	(NA)
Int'l. and unallocated.....	52	2,707	1,366	173	3,269	2,091	700	4,135	2,750

- Represents zero. NA Not available. 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 1990 and March 1991.

No. 1388. International Investment Position: 1980 to 1989

[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	1980	1982	1983	1984	1985	1986	1987	1988	1989
U.S. net international investment position	106,268	136,705	89,003	-2,161	-117,205	-273,885	-378,066	-531,084	-663,747
U.S. assets abroad	607,098	824,755	873,456	895,913	949,732	1,073,400	1,175,932	1,265,620	1,412,515
U.S. official reserve assets	26,764	33,958	33,747	34,834	43,194	48,511	45,800	47,802	74,609
Gold	11,168	11,148	11,121	11,096	11,098	11,064	11,078	11,057	11,059
Special drawing rights	2,610	5,250	5,025	5,841	7,293	8,395	10,283	9,637	9,951
Reserve position in IMF	2,852	7,348	11,312	11,541	11,947	11,730	11,349	9,745	9,048
Foreign currencies	10,134	10,212	6,289	6,656	12,856	17,322	13,090	17,363	44,551
U.S. Government assets, other	63,768	74,584	79,491	84,895	87,676	89,598	88,569	85,571	84,347
U.S. loans and other long-term assets	62,023	72,884	77,814	82,883	85,814	88,747	87,628	84,892	83,838
U.S. foreign currency holdings and short-term assets	1,745	1,700	1,677	2,012	1,862	851	941	680	509
U.S. private assets	516,566	716,213	760,218	776,084	818,862	935,291	1,041,563	1,132,247	1,253,559
Direct investments abroad	215,375	207,752	207,203	211,480	230,250	259,800	314,307	333,501	373,436
Foreign securities	62,653	75,300	83,393	88,917	112,226	131,736	146,714	156,778	189,625
U.S. claims on unaffiliated foreigners ¹	34,672	28,583	35,117	30,056	29,023	36,417	31,085	33,932	32,541
U.S. claims reported by U.S. banks ²	203,866	404,578	434,505	445,631	447,363	507,338	549,457	608,036	657,957
Foreign assets in the U.S.	500,830	688,050	784,453	898,074	1,066,937	1,347,285	1,553,998	1,796,704	2,076,262
Foreign official assets in the U.S.	176,062	189,109	194,468	199,690	202,545	241,195	282,886	321,611	337,202
U.S. Government securities	118,189	132,587	136,987	144,665	145,063	178,913	220,548	260,934	285,896
Other U.S. Government liabilities	13,367	13,639	14,231	14,971	15,865	18,000	15,497	14,788	15,120
U.S. liabilities reported by U.S. banks ²	30,381	24,989	25,534	26,090	26,734	27,920	31,838	31,519	36,459
Other foreign official assets	14,125	17,894	17,716	13,964	14,882	16,359	15,003	14,370	19,727
Other foreign assets in the U.S.	324,768	498,941	589,985	698,384	864,392	1,106,090	1,271,112	1,475,093	1,739,060
Direct investments	83,046	124,677	137,061	164,583	184,615	220,414	271,788	328,851	400,817
U.S. securities other than U.S. Treasury securities	74,114	92,988	113,811	128,477	207,868	310,883	346,187	395,582	489,805
U.S. liabilities to unaffiliated foreigners ¹	30,426	27,532	26,937	31,024	29,458	26,902	29,818	36,039	38,876
U.S. liabilities reported by U.S. banks ²	121,069	227,986	278,330	312,179	354,497	451,813	540,731	613,744	674,755
U.S. Treasury securities	16,113	25,758	33,846	62,121	87,954	96,078	82,588	100,877	134,807

¹ Reported by U.S. nonbanking concerns. ² Not included elsewhere.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June 1990, and earlier issues.

No. 1389. U.S. Reserve Assets: 1970 to 1990

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

TYPE	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	14.5	16.2	26.8	30.1	34.0	33.7	34.9	43.2	48.5	45.8	47.8	74.6	83.3
Gold stock ¹	11.1	11.6	11.2	11.2	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
Special drawing rights	0.9	2.3	2.6	4.1	5.3	5.0	5.6	7.3	8.4	10.3	9.6	10.0	11.0
Foreign currencies	0.6	0.1	10.1	9.8	10.2	6.3	6.7	12.9	17.3	13.1	17.4	44.6	52.2
Reserve position in IMF	1.9	2.2	2.9	5.1	7.3	11.3	11.5	11.9	11.7	11.3	9.7	9.0	9.1

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. 1390. Foreign Direct Investment Position in the U.S.—Value, by Area and Industry: 1980 to 1989

[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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, prel.
All areas ¹	83,046	108,714	124,677	137,061	164,583	184,615	220,414	271,788	328,850	400,817
Petroleum	12,200	15,246	17,660	18,209	25,400	28,270	29,094	35,598	34,704	35,089
Manufacturing	32,993	40,533	44,065	47,665	51,802	59,584	71,963	94,745	121,434	160,216
Finance and insurance	12,027	14,748	17,933	10,934	24,881	27,429	34,978	35,675	39,829	53,697
Trade, wholesale and retail	15,210	20,537	23,604	26,513	31,219	35,873	42,920	50,009	64,929	71,350
Canada	12,162	12,116	11,708	11,434	15,266	17,131	20,318	24,013	27,361	31,538
Petroleum	1,817	1,801	1,550	1,391	1,544	1,589	1,432	1,426	1,614	1,679
Manufacturing	5,227	3,376	3,500	3,313	4,115	4,607	6,108	7,636	9,391	11,586
Finance and insurance	1,612	1,808	1,801	1,061	3,245	4,008	4,283	5,426	5,051	5,852
Europe	54,688	72,377	83,193	92,936	108,211	121,413	144,181	186,076	216,418	262,011
Petroleum	10,137	12,854	15,071	16,326	23,142	25,636	26,139	32,957	31,536	30,866
Manufacturing	21,953	30,897	33,032	36,866	39,083	45,841	56,016	73,981	91,932	121,633
Finance and insurance	8,673	10,084	12,601	8,450	15,945	17,022	21,787	25,835	27,328	34,414
United Kingdom	14,105	18,585	28,447	32,152	38,387	43,555	55,935	79,669	101,909	119,137
Petroleum	257	-124	5,444	5,955	10,991	12,155	11,758	(D)	18,779	16,811
Manufacturing	6,159	7,602	8,504	9,221	9,179	11,687	16,500	27,061	37,021	50,704
Finance and insurance	3,350	4,569	5,661	3,777	5,485	6,483	10,163	(D)	11,402	11,792
Netherlands	19,140	26,824	26,191	29,182	33,728	37,056	40,717	49,115	48,991	60,483
Petroleum	9,265	11,547	8,098	8,646	9,981	11,481	(D)	(D)	(D)	10,660
Manufacturing	4,777	9,018	9,901	11,222	12,497	13,351	13,293	16,137	17,153	24,101
Switzerland	5,070	5,474	6,378	7,464	8,146	10,568	12,058	14,886	15,896	19,329
Manufacturing	3,116	3,278	3,584	4,165	4,774	6,881	7,520	7,996	8,072	10,107
Finance and insurance	1,033	1,059	1,473	1,830	(D)	5,425	2,517	(D)	(D)	(D)
West Germany	7,596	9,459	9,850	10,845	12,330	14,816	17,250	20,315	23,845	28,223
Manufacturing	3,875	4,199	4,239	4,487	4,389	6,015	7,426	9,294	13,268	15,232
Finance and insurance	1,248	1,339	1,426	1,416	1,902	(D)	1,962	2,646	1,443	2,437
Other Europe ²	8,777	12,035	12,327	13,293	15,620	15,417	18,221	22,291	25,777	34,839
Petroleum	991	1,315	1,380	1,679	2,080	(D)	(D)	(D)	(D)	3,040
Manufacturing	4,026	6,800	6,804	7,771	7,704	7,907	11,277	13,493	16,418	21,489
Finance and insurance	1,193	546	429	-908	(D)	(D)	(D)	(D)	(D)	(D)
Japan	4,723	7,697	9,677	11,336	16,044	19,313	26,824	35,151	53,354	69,699
Other areas	11,472	16,524	20,099	21,356	25,043	28,758	29,091	26,547	31,718	37,569

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 1989 (in millions of dollars): Belgium and Luxembourg, 5,470; France, 16,375; Italy, 1,586; and Sweden, 4,925.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1990, and earlier issues.

No. 1391. U.S. Affiliates of Foreign Companies—Assets, Sales, Employment, Land, Exports, and Imports: 1988

[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 (mil. dol.)		Land owned (1,000 acres)	Merchandise exports ⁴ (mil. dol.)	Merchandise imports ⁵ (mil. dol.)
					Plant and equip. ment ³	Land			
Total	1,147,237	853,349	3,682.2	112,370	373,486	32,686	16,877	59,812	149,713
Petroleum	85,388	72,063	133.6	5,539	90,481	2,998	921	1,314	7,284
Manufacturing	281,316	268,575	1,762.7	59,449	148,507	5,588	5,797	20,956	29,345
Chemicals and allied products	80,991	75,962	380.7	15,786	56,997	1,249	745	8,492	6,165
Wholesale trade	111,922	309,681	330.0	11,364	22,966	1,309	627	35,044	109,564
Motor vehicles and auto parts and supplies	32,470	83,735	73.7	2,922	8,118	499	28	4,135	48,641
Farm-product raw materials	6,222	32,436	17.4	485	1,820	74	36	12,219	2,516
Retail trade	39,230	59,801	681.8	9,588	16,984	1,758	516	1,196	2,578
Finance, except banking	335,794	34,595	95.5	7,907	4,202	297	14	(D)	36
Insurance	139,500	49,292	101.8	3,699	3,496	683	14	(D)	(Z)
Real estate	73,643	11,622	34.0	865	42,356	15,375	1,914	(Z)	1
Services	42,201	19,386	328.4	6,425	15,328	1,620	103	193	446
Other	38,244	28,334	214.4	7,534	29,165	3,060	6,971	1,082	460

D Withheld to avoid disclosure of data of individual companies. ² Less than \$500,000. ³ Excludes returns, discounts, allowances, and sales and excise taxes. ⁴ Average number of full-time and part-time employees. ⁵ Includes other property, value of mineral rights owned and capitalized value of mineral rights leased. ⁶ F.a.s. value at port of exportation. ⁷ Includes industries not shown separately.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, July 1990, and *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies*, Preliminary 1988 Estimates.

No. 1392. Foreign Direct Investment in the U.S.—Gross Book Value of Property, Plant, and Equipment and Employment, 1981 and 1988, and Land Owned and Mineral Rights, 1981 and 1987, by State

[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	1988	1981	1988	1981	1987	1981	1987
Total	187,956	406,172	2,416.6	3,682.2	13,259	13,829	67,193	42,531
U.S.	178,003	385,734	2,402.3	3,662.6	13,256	13,825	61,946	35,677
New England	5,686	12,585	143.9	226.4	(D)	1,839	21	121
Maine	1,637	1,761	17.7	23.2	2,602	1,651	21	59
New Hampshire	409	821	13.9	20.4	(D)	97	-	1
Vermont	315	391	6.0	6.8	61	42	(D)	19
Massachusetts	1,712	5,600	55.6	100.1	(D)	38	(D)	(Z)
Rhode Island	359	522	9.9	11.3	1	34	(Z)	40
Connecticut	1,254	3,491	40.8	64.7	9	7	(Z)	2
Middle Atlantic	20,216	54,208	480.2	742.6	634	812	(D)	1,084
New York	7,892	28,114	210.3	365.8	332	436	188	56
New Jersey	6,552	14,978	134.9	205.4	51	49	(D)	36
Pennsylvania	5,772	11,116	135.0	171.4	251	327	1,317	1,022
East North Central	19,215	52,020	388.6	629.1	521	814	(D)	4,740
Ohio	5,178	15,458	99.9	159.6	164	236	773	769
Indiana	1,883	5,383	47.0	75.2	35	60	(D)	181
Illinois	5,646	19,491	113.6	224.2	192	192	621	510
Michigan	4,188	8,321	65.9	106.0	87	260	1,578	2,899
Wisconsin	2,320	3,367	62.2	64.1	43	66	(D)	381
West North Central	8,400	19,352	112.2	180.6	632	258	11,228	2,397
Minnesota	2,902	4,885	33.0	49.3	295	294	51	49
Iowa	1,032	2,043	21.6	26.5	32	38	(Z)	(Z)
Missouri	1,894	5,206	32.6	59.6	108	70	227	111
North Dakota	1,155	1,189	3.5	3.5	40	34	5,587	901
South Dakota	299	411	1.3	2.7	18	21	583	139
Nebraska	241	515	5.6	11.2	79	67	2,423	271
Kansas	877	5,104	14.6	27.8	60	64	2,357	926
South Atlantic	33,271	61,929	476.0	729.3	2,392	2,376	(D)	2,573
Delaware	1,869	4,674	36.0	40.4	16	11	(Z)	(Z)
Maryland	2,103	3,602	45.1	57.6	43	50	(D)	(Z)
District of Columbia	547	1,777	3.2	8.1	(Z)	(Z)	-	1
Virginia	3,046	7,948	49.8	88.2	145	138	396	163
West Virginia	3,992	4,964	35.4	26.1	181	201	1,644	1,546
North Carolina	5,543	11,164	89.0	150.7	259	188	2	33
South Carolina	5,318	6,869	65.1	81.3	462	186	20	23
Georgia	4,558	10,156	78.5	136.9	773	709	64	70
Florida	6,295	10,775	73.9	140.0	513	893	798	737
East South Central	9,802	18,950	121.7	189.0	1,398	1,231	3,767	1,629
Kentucky	1,848	5,232	26.0	42.6	60	129	766	533
Tennessee	3,747	6,840	57.4	90.4	402	108	934	98
Alabama	2,776	4,432	27.0	37.2	620	625	760	405
Mississippi	1,431	2,446	11.3	18.8	316	369	1,307	593
West South Central	34,651	68,030	268.5	343.1	1,337	1,764	10,681	7,236
Arkansas	636	1,602	17.5	23.0	80	111	553	235
Louisiana	7,872	15,295	47.0	53.1	192	720	1,575	889
Oklahoma	2,760	6,116	25.0	40.0	29	26	1,560	1,516
Texas	23,383	45,017	179.0	227.0	1,036	907	6,993	4,596
Mountain	12,353	21,725	97.9	126.1	1,672	2,100	21,138	11,870
Montana	1,235	1,744	3.0	3.6	332	308	6,132	1,857
Idaho	312	444	3.8	5.6	(D)	34	897	197
Wyoming	2,144	2,967	4.2	3.8	(D)	133	2,983	2,002
Colorado	2,369	4,738	24.7	29.5	509	380	2,649	1,445
New Mexico	997	3,648	7.9	15.5	231	650	1,734	2,841
Arizona	2,949	4,729	30.6	44.9	221	179	501	524
Utah	1,791	1,211	16.8	10.8	309	94	3,462	1,107
Nevada	556	2,244	6.9	12.4	70	322	2,780	1,897
Pacific	34,409	76,935	313.3	496.4	(D)	2,301	7,120	4,027
Washington	2,430	4,120	26.0	46.4	327	389	2,084	2,074
Oregon	845	2,117	13.1	23.5	351	908	750	530
California	20,404	48,270	248.4	388.3	823	926	1,446	762
Alaska	(D)	17,980	8.8	7.7	(D)	21	2,840	660
Hawaii	(D)	4,448	17.0	30.5	111	57	(Z)	1
Puerto Rico	413	619	9.5	12.9	2	1	(Z)	(Z)
Other territories and offshore	7,496	17,179	3.1	4.0	1	2	5,244	6,853
Foreign	2,044	2,640	1.6	2.5	(D)	-	3	-

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

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, July 1990, and *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies, Preliminary 1988 Estimates*.

No. 1393. U.S. Businesses Acquired or Established by Foreign Direct Investors, by Industry of U.S. Business Enterprise: 1988 and 1989

(Foreign direct investment is the ownership or control, directly or indirectly, of 10 percent or more of the ownership interest in an unincorporated one. Data represent number of 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	1988						1989, 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	1,424	869	555	1,542	586	976	1,101	645	456	1,240	539	701
Petroleum	49	36	13	53	13	40	33	27	6	33	6	27
Manufacturing	578	478	100	620	194	426	396	319	77	443	176	267
Wholesale trade	85	65	20	90	28	62	79	63	16	83	31	52
Retail trade	37	31	6	37	6	31	36	26	10	38	13	25
Banking	16	6	10	16	11	5	10	3	7	10	9	1
Finance, except banking	35	11	24	38	19	19	50	18	32	67	47	20
Insurance	21	16	5	21	5	16	13	12	1	14	2	12
Real estate	348	41	307	394	186	208	270	44	226	309	145	164
Services	158	120	38	170	68	102	140	95	45	163	78	85
Other ²	97	65	32	103	36	67	74	38	36	80	32	48
INVESTMENT OUTLAYS (mil. dol.)												
Total	72,692	64,855	7,837	72,692	18,569	54,123	64,565	55,822	8,743	64,565	20,429	44,136
Petroleum	4,740	4,131	609	4,740	227	4,514	1,069	1,016	54	1,069	129	940
Manufacturing	36,136	33,686	2,450	36,136	12,295	23,841	28,323	25,799	2,523	28,323	11,551	16,772
Wholesale trade	2,454	2,324	130	2,454	146	2,308	2,366	2,307	59	2,366	1,723	642
Retail trade	8,022	7,689	334	8,022	357	7,665	7,274	7,255	18	7,274	252	7,021
Banking	1,800	1,787	13	1,800	453	1,347	436	382	54	436	164	271
Finance, except banking	972	470	502	972	437	536	3,422	2,421	1,001	3,422	2,153	1,269
Insurance	5,855	5,847	7	5,855	335	5,520	1,751	1,750	1	1,751	28	1,723
Real estate	3,518	758	2,760	3,518	1,401	2,117	4,653	1,226	3,427	4,653	1,722	2,931
Services	5,597	4,759	838	5,597	1,917	3,681	9,008	7,549	1,459	9,008	2,525	6,483
Other ²	3,597	3,402	195	3,597	1,001	2,596	6,263	6,117	146	6,263	179	6,084

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 1990.

No. 1394. U.S. Businesses Acquired by Foreign Direct Investors Assets, Sales, and Employment, by Industry of U.S. Business Enterprise: 1988 and 1989

[See headnote, table 1393. Minus sign (-) indicates loss]

INDUSTRY	1988					1989				
	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	123,553	87,058	2,932	696.0	4,021.7	95,416	69,689	272	679.1	310.6
Petroleum	6,789	9,519	429	16.2	51.8	3,084	1,996	-89	6.8	1.9
Manufacturing	40,178	34,762	695	295	129	31,476	32,059	175	258.4	273.2
Wholesale trade	3,360	5,656	84	22	12	1,682	3,830	64	19.3	0.7
Retail trade	9,298	14,783	277	172	4	8,499	13,020	104	271.4	8.3
Banking	11,742	1,077	110	8	(D)	5,574	498	63	3.4	(D)
Finance, except banking	(D)	266	1	1	(D)	20,615	2,308	179	6.4	4.2
Insurance	(D)	6,770	610	30	2	7,019	3,333	31	7.8	(D)
Real estate	804	164	9	1	6	1,352	184	-9	0.3	1.6
Services	8,344	4,527	247	79	11	7,670	4,647	21	57.0	2.2
Other ¹	17,321	9,536	470	74	3,806	8,445	7,714	-142	48.4	18.4

- 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 1990.

No. 1395. U.S. Investment Position Abroad, by Country: 1980 to 1989

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	1985	1986	1987	1988	1989			
						Total ¹	Manu- facturing	Petro- leum	Finance ²
All countries	215,375	230,250	259,800	314,307	333,501	373,436	155,704	57,945	77,112
Developed countries	158,214	172,058	194,280	237,508	252,757	279,310	126,468	39,986	53,994
Canada	45,119	46,909	50,629	57,783	62,610	66,856	32,333	10,912	11,680
Europe ³	96,287	105,171	120,724	150,439	156,932	176,736	77,846	22,365	38,944
Austria	524	493	715	691	688	688	75	172	29
Belgium	6,259	5,038	5,006	7,267	7,448	8,290	4,407	502	796
Denmark	1,266	1,281	1,085	1,070	1,163	1,246	288	(D)	226
France	9,347	7,643	8,952	11,868	13,150	14,747	9,490	1,050	872
Greece	347	210	87	132	195	265	91	(D)	(D)
Ireland	2,319	3,693	4,308	5,425	6,212	6,237	5,082	-28	1,160
Italy	5,397	5,906	7,426	9,264	9,540	10,634	6,830	574	1,055
Luxembourg	652	690	802	660	850	904	543	5	97
Netherlands	8,039	7,129	11,643	14,842	16,017	17,168	7,541	1,907	3,798
Norway	1,679	3,215	3,216	3,843	4,371	3,640	66	3,007	157
Portugal	257	237	288	495	546	612	230	50	(D)
Spain	2,678	2,281	2,707	4,076	4,979	6,002	3,865	98	28
Sweden	1,474	933	918	1,139	1,119	1,102	740	(D)	61
Switzerland	11,280	15,766	16,441	19,665	18,357	19,952	1,757	(D)	7,264
Turkey	207	234	215	207	246	312	99	99	-
United Kingdom	28,460	33,024	35,389	44,512	49,274	60,810	22,097	10,063	20,599
West Germany	15,415	16,764	20,932	24,388	21,742	23,059	14,430	2,600	2,515
Japan	6,225	9,235	11,472	15,684	17,927	19,341	9,959	3,194	1,981
Australia	7,654	8,772	9,340	11,363	13,186	14,495	5,771	3,009	1,115
New Zealand	579	576	598	743	833	1,167	379	(D)	199
South Africa	2,350	1,394	1,517	1,497	1,269	714	181	(D)	75
Developing countries	53,206	52,764	61,072	73,017	77,560	90,552	29,235	15,179	23,118
Latin America	38,761	28,261	36,851	47,551	51,041	61,364	21,285	5,057	19,856
South America ³	16,342	17,623	19,813	21,227	21,690	23,557	14,427	2,185	1,905
Argentina	2,540	2,705	2,913	2,744	2,597	2,624	1,316	489	177
Brazil	7,704	8,893	9,268	10,951	12,460	14,687	11,023	506	1,361
Chile	536	88	265	348	691	1,081	170	51	282
Colombia	1,012	2,148	3,291	3,104	2,248	1,900	626	306	(D)
Ecuador	322	361	413	466	431	395	168	125	(D)
Peru	1,665	1,243	1,103	1,022	986	912	67	320	(D)
Venezuela	1,908	1,588	1,987	2,095	1,897	1,537	964	274	24
Central America	10,193	9,658	10,698	12,218	13,119	15,880	6,600	1,691	4,562
Mexico	5,986	5,088	4,623	4,913	5,694	7,079	5,837	68	130
Panama	3,170	3,959	5,525	6,622	6,632	7,906	318	1,425	4,410
Other ³	1,037	611	549	683	793	895	445	198	23
Costa Rica	303	113	113	141	169	163	143	1	5
El Salvador	105	73	50	51	56	62	21	(D)	1
Guatemala	229	213	181	174	200	221	110	45	19
Honduras	288	171	167	185	240	318	121	(D)	(Z)
Other W. Hemisphere ³	12,226	980	6,341	14,106	16,232	21,928	258	1,181	13,389
Bahamas, The	2,712	3,795	2,991	3,814	4,010	4,463	50	502	929
Bermuda	11,045	13,116	15,373	19,215	19,040	17,849	-	-169	17,368
Dominican Republic	316	212	199	156	138	162	59	(D)	-3
Jamaica	407	122	106	103	134	167	55	(D)	9
Netherlands Antilles	-4,336	-20,499	-16,969	14,235	-11,633	-6,286	28	57	-6,600
Trinidad and Tobago	951	484	424	400	447	530	11	(D)	4
Other Africa ³	3,778	4,497	3,999	4,372	4,199	4,310	452	3,095	-375
Egypt	1,038	1,926	1,807	1,669	1,670	1,802	57	1,447	3
Libya	575	325	241	310	315	311	-	295	-
Nigeria	18	44	781	894	660	461	53	388	-
Middle East ³	2,163	4,606	4,891	4,084	3,806	3,886	775	1,737	818
Israel	379	717	427	635	700	770	304	48	116
Saudi Arabia	1,037	2,442	2,460	2,092	1,782	1,812	432	288	644
United Arab Emirates	384	792	840	694	672	674	23	544	(D)
Bahrain	-16	440	320	-340	-311	176	-	-11	1
Other Asia and Pacific	8,505	15,400	15,332	17,010	18,515	20,991	6,723	5,290	2,069
China: Taiwan	498	750	869	1,372	1,622	1,949	1,402	-11	31
Hong Kong	2,078	3,295	3,912	4,389	5,244	5,853	798	178	1,692
India	398	383	421	439	436	549	458	7	1
Indonesia	1,314	4,475	3,217	3,070	2,925	3,696	106	3,231	51
Malaysia	632	1,140	1,021	952	1,135	1,098	624	343	42
Philippines	1,259	1,032	1,299	1,396	1,511	1,682	781	132	156
Singapore	1,204	1,674	2,256	2,384	2,290	2,213	1,226	518	31
South Korea	575	743	782	1,178	1,501	1,889	859	9	57
Thailand	361	1,074	1,078	1,274	1,132	1,279	358	645	(D)
Other	186	635	476	556	719	782	110	237	(D)
China: Mainland	6	311	167	207	307	370	63	104	-
International	3,955	5,428	4,448	3,782	3,184	3,574	2,780	2,780	807
Addendum-OPEC⁴	6,090	10,383	10,235	9,899	8,825	8,977	1,747	5,264	807

- Represents zero. Z Less than \$500,000. 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 1990.

No. 1396. U.S. Government Foreign Grants and Credits: 1946 to 1989

(In millions of dollars. "P.L." means Public Law. For explanation of minus sign (-), see headnote, table 1397. 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	1985	1986	1987	1988	1989, prel.
Total, net.	51,509	49,723	70,367	104,189	14,322	15,024	9,400	8,313	10,232
Investment in international financial institutions ¹	635	655	2,719	10,432	1,302	1,481	1,212	1,314	1,173
Under assistance programs, net.	50,875	49,067	67,647	93,757	13,020	13,543	8,189	6,999	9,059
Developed countries ²	35,150	5,834	616	757	-529	815	-801	-135	64
Developing countries ²	15,725	43,233	67,032	93,000	13,549	12,728	8,990	7,134	8,995
Net new military grants	14,200	21,564	30,236	14,957	3,130	4,125	3,131	3,576	3,730
Developed countries ²	8,910	7,931	691	1,369	123	162	261	305	321
Developing countries ²	5,291	13,633	29,545	13,587	3,007	3,963	2,870	3,272	3,409
Gross new grants	14,434	21,805	30,281	14,993	3,133	4,128	3,136	3,579	3,733
Foreign Assistance Act ³	13,427	21,769	30,281	14,993	3,133	4,128	3,136	3,579	3,733
Military supplies and services	12,282	20,662	9,802	2,438	48	99	57	92	45
Military assistance, service funded ⁴	-	8	18,161	-	-	-	-	-	-
Financing of military purchases ⁵	-	-	1,584	10,122	2,964	3,873	2,816	3,185	3,369
Relocation of facilities in Israel	-	-	-	800	-	-	-	-	-
Other special programs	1,145	1,100	734	1,633	121	157	263	301	319
Other	1,007	36	-	-	-	-	-	-	-
<i>Less: Reverse grants and returns</i>	<i>234</i>	<i>241</i>	<i>45</i>	<i>36</i>	<i>3</i>	<i>3</i>	<i>5</i>	<i>2</i>	<i>3</i>
Other grants, credits, and other assistance (through net accumulation of foreign currency claims)	36,675	27,503	37,412	78,800	9,890	9,418	5,058	3,423	5,329
Developed countries ²	26,240	-2,097	75	-612	-652	653	-1,062	-440	-257
Developing countries ²	10,434	29,600	37,487	79,413	10,542	8,765	6,120	3,862	5,586
Net new economic and technical aid grants ⁶	27,529	17,675	21,748	43,302	8,258	7,898	7,408	7,469	7,552
Developed countries ²	19,424	780	182	464	84	98	67	72	44
Developing countries ²	8,104	16,896	21,929	42,839	8,174	7,801	7,341	7,397	7,507
Gross new grants	28,769	17,993	22,003	43,311	8,258	7,950	7,408	7,469	7,552
Foreign Assistance Act ³	17,711	12,189	12,191	31,525	6,505	6,439	5,886	5,736	5,870
Farm products disposals:	-	-	-	-	-	-	-	-	-
Foreign currencies, P.L. 83-480 ⁷	-	2,048	4,234	186	6	3	6	1	1
Famine and other urgent relief	530	2,704	2,862	5,026	874	568	686	766	767
Payment of transportation	-	494	946	1,890	331	265	211	212	240
Food for development loan forgiveness	-	-	-	353	11	53	37	133	7
Supplies to military or trusteeship administration areas	5,528	132	536	1,246	153	217	173	202	155
Peace Corps	-	232	912	979	121	130	126	151	151
Other	5,000	194	321	2,106	257	275	284	269	360
<i>Less: Reverse grants and returns</i>	<i>1,240</i>	<i>318</i>	<i>255</i>	<i>9</i>	<i>-</i>	<i>52</i>	<i>-</i>	<i>-</i>	<i>-</i>
Net new credits ⁸	8,605	7,025	16,954	35,785	1,623	1,514	-2,323	-4,010	-2,220
Developed countries ²	6,627	-3,207	310	-1,019	-730	557	-1,091	-485	-285
Developing countries ²	1,978	10,232	16,644	36,805	2,353	957	-1,233	-3,525	-1,935
New credits	11,958	15,429	37,422	72,195	5,914	7,163	4,853	5,909	3,893
Export-Import Bank Act	4,241	5,257	15,505	22,096	1,794	1,258	998	1,057	758
Foreign Assistance Act ³	1,919	6,196	12,053	35,324	2,759	2,932	2,529	3,476	1,544
Country program loans	1,765	5,722	8,362	10,733	671	595	347	455	351
Financing of military purchases	9	247	3,089	24,288	2,090	2,307	2,169	2,992	1,159
Social Progress Trust Fund	-	226	487	142	-16	-5	-9	-4	-1
Other	145	2	116	162	13	35	22	34	36
P.L. 83-480 ⁷	48	3,839	7,161	8,142	1,055	991	826	959	793
Loans of foreign currency:	-	-	-	-	-	-	-	-	-
To foreign governments	48	3,285	1,843	10	(Z)	-	2	(Z)	(Z)
To private enterprises	-	202	217	16	-	2	3	11	9
Long-term credit sales	-	352	5,101	8,116	1,055	988	821	947	785
P.L. 80-806 ⁹	-	-	2,433	5,559	300	1,982	500	418	797
Other	5,750	137	271	1,074	6	-	-	-	-
<i>Less: Principal collections</i>	<i>3,353</i>	<i>8,404</i>	<i>20,469</i>	<i>36,410</i>	<i>4,290</i>	<i>5,648</i>	<i>7,176</i>	<i>9,919</i>	<i>6,113</i>
Export-Import Bank Act	1,787	4,458	9,282	15,222	2,488	2,915	4,293	1,501	1,395
Foreign Assistance Act ³	38	1,263	3,557	11,234	1,238	1,674	2,336	7,718	3,699
Country program loans	1	944	2,481	4,212	460	537	470	489	584
Financing of military purchases	2	222	852	6,492	735	1,095	1,835	7,197	3,083
Social Progress Trust Fund	-	9	198	354	24	17	16	15	11
Other	35	88	25	177	18	25	14	18	21
P.L. 83-480 ⁷	-	180	3,753	2,923	289	368	275	468	355
Loans of foreign currency:	-	-	-	-	-	-	-	-	-
To foreign governments	-	111	2,354	551	39	37	29	24	27
To private enterprises	-	43	175	96	2	3	1	1	2
Long-term credit sales	-	27	1,223	2,276	248	327	245	444	327
Lend-lease, surplus property, and grant settlements	675	2,001	1,438	386	18	20	16	16	16
P.L. 80-806 ⁹	-	-	1,763	4,748	158	569	152	110	545
Other	853	501	677	1,897	100	101	105	106	103

See footnotes at end of table.

No. 1396. U.S. Government Foreign Grants and Credits: 1946 to 1989—Continued

(In millions of dollars. See headnote, p. 798)

PROGRAM	1946-1955, total	1956-1965, total	1966-1975, total	1976-1985, total	1985	1986	1987	1988	1989, prel.
Other assistance (through net accumulation of foreign currency claims) ¹⁰	541	2,802	-1,290	-287	9	5	-27	-36	-2
Developed countries ³	190	330	-203	-56	-7	-3	-38	-26	-17
Developing countries ²	351	2,472	-1,086	-231	15	8	11	-10	14
Currency claims acquired	813	11,498	6,888	1,227	97	134	84	82	66
Sales of farm products	813	11,170	3,013	114	10	49	41	35	25
Second-stage operations ¹¹	-	329	3,875	1,113	87	85	43	46	42
Less: Currencies disbursed	272	8,696	8,177	1,514	89	129	111	118	68
Economic grants and credits to purchasing country	182	6,863	6,238	180	2	10	15	16	10
Other uses	90	1,833	1,940	1,334	86	119	96	101	58

- Represents zero. Z Less than \$500,000. ¹ For details, see table 1397. ² Developed countries include Australia, Canada, Japan, New Zealand, South Africa, all countries listed under "Western Europe" in table 1397, except Portugal, Spain (through 1981), Yugoslavia, and Malta, and all countries listed under "Eastern Europe" in table 1397. Developing countries include all other countries listed in table 1397 (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, 1989, totaled \$63,706 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 \$62,037 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 fluctuation (\$1,587 million), was \$81 million on Dec. 31, 1989. 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. 1397. U.S. Government Foreign Grants and Credits, by Type and Country: 1946 to 1989

(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	1985	1986	1987	1988	1989, prel.
Total, net	51,509	49,723	70,367	104,189	14,322	15,024	9,400	8,313	10,232
Investment in financial institutions	635	655	2,719	10,432	1,302	1,481	1,212	1,314	1,173
African Development Bank	-	-	-	54	18	15	20	9	7
African Development Fund	-	-	-	125	20	53	45	40	34
Asian Development Bank	-	-	110	602	135	110	95	111	160
Inter-American Development Bank	-	300	1,321	2,770	321	351	189	124	97
International Bank for Reconstruction and Development	635	-	13	353	41	241	232	95	23
International Development Association	-	320	1,275	6,417	768	658	546	826	852
International Finance Corporation	-	35	-	111	-	28	7	25	-
Under assistance programs	50,875	49,067	67,647	93,757	13,020	13,543	8,189	6,999	9,059
Developed Countries	35,150	5,834	616	757	-529	815	-801	-135	64
Developing Countries	15,725	43,233	67,032	93,000	13,549	12,728	8,990	7,134	8,995
Western Europe	33,067	6,752	1,004	1,626	-203	9	-167	118	-245
Austria	1,001	193	-19	34	10	-9	-9	-9	-11
Belgium and Luxembourg	1,570	305	17	-46	-15	-9	-9	-9	-9
Denmark	596	276	64	-58	30	-7	-6	-	-
Finland	86	-26	-19	21	-2	-47	8	6	7
France	8,661	-171	-93	-222	-47	-26	-13	-14	-14
Germany	3881	10	-117	-117	-2	-	-3	-	-
Iceland	34	33	-8	-12	-1	-2	-2	-4	(Z)
Ireland	146	-16	-51	7	(Z)	2	-2	-6	-7
Italy	3,851	1,435	85	133	-84	-107	21	-28	-28
Malta	1	3	47	34	(Z)	(Z)	(Z)	(Z)	(Z)
Netherlands	1,716	322	116	-180	-9	-1	-1	-	-
Norway	697	362	379	-257	-31	-16	-4	-	-
Portugal	248	241	34	1,003	101	178	8	66	71
Spain	258	1,203	607	965	-85	66	-11	-113	-474
Sweden	107	-20	17	-1	-6	-6	-5	3	-2
United Kingdom	7,458	105	-546	-964	-121	-202	347	105	109
Yugoslavia	1,356	1,151	84	174	18	-21	-41	-2	11
Other ¹ and unspecified	1,398	1,348	407	1,112	102	200	290	338	320

See footnotes at end of table.

**No. 1397. U.S. Government Foreign Grants and Credits, by Type and Country:
1946 to 1989—Continued**

(In millions of dollars. See headnote, p. 799)

COUNTRY	1946- 1955, total	1956- 1965, total	1966- 1975, total	1976- 1985, total	1985	1986	1987	1988	1989, prel.
Eastern Europe	823	501	226	1,029	15	1,249	-161	-125	414
Czechoslovakia	136	-	-	-5	-	-	-	-	-
Poland	350	555	75	1,017	45	1,348	-44	-57	519
Romania	-	-	92	55	35	-26	-50	-1	-59
Soviet Union	292	-59	214	44	-68	-66	-66	-66	-46
Other and unspecified	45	5	-5	6	3	-6	-	-	-
Near East and South Asia	4,944	16,828	17,195	50,793	7,436	7,926	6,273	2,124	4,371
Afghanistan	31	227	185	56	-21	-3	29	30	63
Bangladesh	-	-	701	1,670	175	178	150	170	138
Cyprus	-	19	20	138	17	21	17	14	19
Egypt	41	1,009	271	13,600	2,231	2,729	1,614	3,490	2,085
Greece	2,026	1,281	905	362	-21	72	304	488	306
India	370	4,890	3,810	1,021	42	36	64	138	44
Iran	314	1,061	914	847	-	-	-	-19	-
Iraq	13	81	-5	5	-12	-5	21	29	-16
Israel	390	483	3,760	25,417	3,807	4,030	3,115	-1,826	1902
Jordan	26	495	618	1,320	-1	7	109	-231	150
Lebanon	15	78	90	233	34	-12	-4	-7	-3
Nepal	3	86	105	177	26	20	22	19	14
Oman	-	-	(Z)	79	-4	12	-33	9	8
Pakistan	189	3,092	2,048	1,971	481	347	235	386	-398
Saudi Arabia	12	35	23	-20	-2	-1	-	-	-
Sri Lanka	(Z)	89	153	512	90	65	40	43	40
Syria	1	57	15	262	(Z)	(Z)	(Z)	(Z)	-
Turkey	1,295	3,020	2,703	3,760	479	298	449	-720	-91
Yemen (Sanaa)	-	40	24	216	41	39	47	33	42
UNRWA	131	274	296	596	75	67	61	54	39
Other and unspecified	85	510	559	264	-3	27	34	26	28
Africa	147	2,272	3,610	11,074	2,004	1,300	1,104	1,258	835
Algeria	1	135	263	345	131	-128	-98	-58	77
Angola	-	-	6	115	38	27	24	2	-13
Benin	-	7	12	44	5	3	3	5	6
Botswana	-	(Z)	35	169	29	20	27	20	15
Burkina Faso	-	5	40	287	49	30	24	18	13
Burundi	-	4	5	62	9	5	5	5	3
Cameroon	-	16	50	150	5	11	13	24	18
Cape Verde	-	-	1	68	5	9	7	6	3
Chad	(Z)	5	20	145	41	25	35	38	15
Ethiopia	13	200	297	310	157	88	13	71	18
Ghana	(Z)	64	203	152	18	13	9	17	26
Guinea	-	58	68	74	11	16	24	19	4
Ivory Coast	-	14	57	57	12	5	-3	27	1
Kenya	(Z)	34	76	549	82	39	46	47	53
Lesotho	-	(Z)	27	197	23	23	24	23	18
Liberia	24	139	86	459	71	52	23	27	13
Libya	25	192	6	-	-	-	-	-	-
Madagascar	(Z)	7	13	86	24	21	17	19	6
Malawi	-	5	30	56	8	11	19	34	36
Mali	-	12	58	199	51	45	34	50	23
Mauritania	-	1	20	161	38	19	12	11	11
Morocco	7	464	413	948	138	177	85	185	17
Mozambique	-	-	1	175	51	34	69	56	32
Niger	-	5	64	223	93	39	43	25	34
Nigeria	(Z)	87	284	267	151	1	1	169	36
Rwanda	-	2	13	91	16	24	16	16	9
Senegal	-	18	48	361	51	45	49	45	44
Sierra Leone	(Z)	22	36	85	11	12	12	8	10

See footnotes at end of table.

**No. 1397. U.S. Government Foreign Grants and Credits, by Type and Country:
1946 to 1989--Continued**

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

COUNTRY	1946- 1955, total	1956- 1965, total	1966- 1975, total	1976- 1985, total	1985	1986	1987	1988	1989, prel.
Africa--Continued									
Somalia	(Z)	42	47	582	117	111	68	62	32
Sudan	-	86	52	1,358	443	164	101	110	108
Swaziland	-	(Z)	8	58	8	9	15	12	11
Tanzania	2	34	123	259	21	10	29	16	11
Togo	-	9	18	60	9	10	13	9	15
Tunisia	2	407	376	563	40	7	-7	175	52
Uganda	-	12	33	40	5	4	17	21	20
Zaire	(Z)	258	342	938	66	104	112	141	57
Zambia	-	1	35	331	51	77	36	18	21
Zimbabwe	-	(Z)	(Z)	271	54	22	33	6	12
Other and unspecified	71	-75	343	781	130	117	153	132	157
Far East and Pacific	9,678	16,199	34,778	9,635	220	-64	-2,614	308	375
Australia	-9	(Z)	276	12	-39	-118	-30	-26	-18
Burma	25	134	43	31	7	7	10	9	1
Cambodia	28	327	1,771	-	-	-	-	-	-
China: Mainland	-	-	-	49	6	-8	9	48	35
Taiwan	1,267	2,681	1,523	648	-255	-262	-970	-8	-7
Hong Kong	3	35	41	11	-14	-11	-8	-8	-8
Indonesia	246	501	1,388	1,661	37	13	-12	-3	35
Japan and Ryukyu Islands	3,267	1,318	-345	-210	-87	-88	-319	-4	-1
Laos	37	647	1,868	-	-	-	-	-	-
Malaysia	1	30	86	39	-11	-15	-12	-9	-36
New Zealand	3	2	95	-68	-11	10	-4	-4	4
Pacific Islands, Trust Territory of the	28	89	488	1,260	154	219	166	138	156
Philippines	1,028	554	729	1,466	334	449	331	421	305
Singapore	-	(Z)	78	110	-53	-184	1	1	1
South Korea	1,420	4,744	5,426	3,518	58	-146	-1,717	-383	-132
Thailand	192	727	996	733	68	62	-77	72	12
Vietnam	244	3,566	19,721	-	-	-	-	-	-
Other and unspecified	1,898	844	595	400	26	27	18	65	36
Western Hemisphere	1,248	5,181	6,816	9,881	2,142	1,822	2,106	1,452	1,043
Argentina	86	342	34	21	14	85	27	16	-6
Bahamas, The	(Z)	(Z)	29	-25	(Z)	1	(Z)	-2	-2
Bermuda	-	-	18	-18	-	-	-	-	-
Bolivia	77	288	270	414	71	111	124	82	113
Brazil	509	1,400	1,518	399	368	7	33	(Z)	-202
Canada	-1	4	272	317	87	-61	-158	-50	-30
Chile	100	740	724	-565	-7	56	26	11	-46
Colombia	43	446	846	298	93	63	22	23	-36
Costa Rica	15	83	103	687	213	139	159	107	143
Dominican Republic	2	184	360	550	154	230	78	52	51
Ecuador	32	131	144	153	50	66	60	47	22
El Salvador	3	56	93	1,681	448	376	418	405	404
Guatemala	23	146	160	270	52	91	159	141	161
Guyana	(Z)	7	71	36	(Z)	2	8	5	8
Haiti	27	75	42	370	56	87	94	41	65
Honduras	6	53	113	801	243	224	212	194	133
Jamaica	16	3	120	643	151	121	92	95	124
Mexico	225	178	305	1,162	-40	-29	551	59	-121
Nicaragua	8	67	150	197	-2	(Z)	(Z)	(Z)	(Z)
Panama	10	103	210	205	43	24	10	13	8
Paraguay	4	67	86	22	1	(Z)	(Z)	(Z)	1
Peru	55	304	274	757	181	98	73	67	31
Trinidad and Tobago	-	35	21	151	21	-32	-33	-11	16
Uruguay	8	90	116	-9	-4	11	-3	9	-6
Venezuela	6	156	115	-35	-30	-31	-38	28	-21
Central American Bank for Economic Integration	-	6	121	36	-4	-5	-4	-3	(Z)
Caribbean Development Bank	-	-	8	108	1	-1	-1	2	-2
Other ⁴ and unspecified	-6	218	496	1,236	198	188	197	229	235
Other international organizations and unspecified areas	969	1,335	4,018	9,739	1,405	1,319	1,648	1,864	2,268

- 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. 1398. U.S. Foreign Economic and Military Aid Programs: 1946 to 1989

[In millions of dollars. For years ending June 30 except, beginning 1977, ending Sept. 30. Economic aid shown here represents 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
1946-1989, total,	358,386	222,384	55,770	166,614	136,002	40,399	95,603
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	125,442	82,222	13,046	69,176	43,220	21,474	21,746
1980-1989	140,130	92,082	13,740	78,342	48,048	21,884	26,164
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	1,480	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	13,792	8,961	852	8,109	4,831	763	4,068
1989	14,688	9,860	694	9,166	4,828	410	4,418
Near East and South Asia	7,411	3,209	348	2,861	4,202	410	3,792
East Asia	774	617	14	603	157	-	157
Europe	159	54	-	54	105	-	105
Latin America	1,591	1,427	171	1,256	164	-	164
Africa	1,302	1,184	157	1,026	118	-	118
Oceania and other	28	28	-	28	-	-	-
Non-regional	3,425	3,343	5	3,338	82	-	82

- Represents zero. ¹ Transition quarter, July-Sept.

No. 1399. U.S. Foreign Military Aid, by Region and Selected Countries: 1985 to 1989

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	1985	1986	1987	1988	1989	REGION AND COUNTRY	1985	1986	1987	1988	1989
Total	5,801	5,839	5,102	4,831	4,828	Cameroon	5	(Z)	1	(Z)	(Z)
Europe	531	498	191	88	105	Djibouti	3	2	1	1	1
Portugal	128	112	83	85	103	Gabon	(Z)	(Z)	(Z)	(Z)	(Z)
Spain	403	385	108	2	2	Kenya	22	21	12	6	16
Near East and South Asia	4,248	4,427	4,299	4,231	4,202	Liberia	13	6	1	1	1
Egypt	1,177	1,246	1,302	1,302	1,302	Morocco	50	36	46	53	53
Greece	501	432	344	344	351	Niger	5	4	2	1	1
Israel	1,400	1,723	1,800	1,800	1,800	Somalia	34	20	8	7	1
Jordan	92	83	42	28	12	Sudan	46	17	6	1	1
Lebanon	1	1	1	(Z)	(Z)	Tunisia	67	66	34	28	31
Oman	40	9	(Z)	(Z)	(Z)	Zaire	8	8	5	4	4
Pakistan	326	312	314	261	231	Latin America¹	269	238	215	144	164
Turkey	704	619	494	493	504	Colombia	1	4	5	4	8
Yemen	6	3	2	2	2	Costa Rica	11	3	2	(Z)	(Z)
East Asia	416	381	171	182	157	Dominican Rep.	9	5	3	1	1
Indonesia	34	21	12	6	3	Ecuador	7	5	5	1	5
Malaysia	5	2	1	1	1	El Salvador	136	122	112	82	81
Philippines	42	105	103	128	128	Haiti	1	2	1	(Z)	(Z)
South Korea	232	165	2	2	2	Honduras	67	61	61	41	41
Thailand	102	88	52	46	24	Jamaica	8	8	3	(Z)	4
Africa	279	205	139	116	118	Panama	11	8	4	-	-
Botswana	9	4	2	(Z)	1	Peru	9	1	(Z)	(Z)	3
						Non-regional	58	91	88	70	82

- Represents zero. Z Less than \$500,000. ¹ Includes countries not shown separately.

Source of tables 1398 and 1399: U.S. Agency for International Development, *U.S. Overseas Loans and Grants and Assistance from International Organizations*, annual.

No. 1400. U.S. Foreign Aid—Commitments for Economic Assistance, by Region and Selected Countries: 1985 to 1989

(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	1985	1986	1987	1988	1989	REGION AND COUNTRY	1985	1986	1987	1988	1989
Total	8,132	7,446	6,355	5,705	6,136	Lesotho	11	10	13	26	10
Europe	94	142	106	77	54	Liberia	60	45	27	10	21
Italy	2	-	(Z)	-	-	Malawi	25	35	13	44	21
Portugal	80	77	65	32	50	Mali	32	13	12	21	27
Spain	12	12	5	3	-	Mauritania	11	4	4	4	2
Near East and	3,867	3,728	2,763	2,523	2,562	Mauritius	7	2	3	15	2
South Asia ¹	3,867	3,728	2,763	2,523	2,562	Morocco	38	37	28	31	32
Bangladesh	76	72	80	49	53	Niger	28	24	27	35	24
Cyprus	15	14	15	10	20	Rwanda	19	7	9	5	9
Egypt	1,065	1,069	820	718	817	Senegal	44	50	35	24	49
Israel	1,950	1,898	1,200	1,200	1,200	Seychelles	2	2	3	3	3
Jordan	100	95	111	24	16	Sierra Leone	(Z)	(Z)	1	1	1
Lebanon	20	16	13	5	3	Somalia	51	45	36	10	13
Nepal	18	17	16	12	15	Sudan	149	71	21	17	5
Oman	20	20	15	13	15	Swaziland	9	11	9	16	7
Pakistan	250	263	276	385	265	Tanzania	(Z)	(Z)	58	9	10
Sri Lanka	35	25	26	28	29	Togo	4	11	5	4	4
Turkey	175	120	102	32	60	Tunisia	23	23	18	12	13
Yemen (Sanaa)	28	25	25	22	24	Uganda	9	15	7	25	14
Regional	23	-	-5	-	-	Zaire	36	48	33	31	36
East Asia	313	518	440	225	541	Zambia	42	20	17	13	7
Burma	15	10	7	6	-	Zimbabwe	41	13	6	13	29
Indonesia	72	66	88	42	50	Regional	96	85	52	65	110
Philippines	183	351	253	78	347	Latin America ¹	1,506	1,126	1,310	967	937
Thailand	36	31	27	25	23	Belize	23	10	13	8	7
East Asia Regional	7	59	65	74	122	Bolivia	18	38	29	38	37
Africa ¹	900	768	620	644	748	Costa Rica	196	139	161	101	175
Botswana	10	14	6	13	9	Dominican Rep.	126	67	20	33	20
Burkina	8	15	9	4	6	Ecuador	33	50	37	15	27
Burundi	4	3	2	6	2	El Salvador	376	268	415	266	253
Cameroon	24	25	31	19	33	Grenada	11	-	-	-	-
Cape Verde	3	3	2	3	3	Guatemala	76	90	154	110	114
Chad	16	16	11	17	16	Guyana	-	-	-	-	-
Congo	1	1	1	1	1	Haiti	31	47	75	31	40
Djibouti	4	3	2	4	3	Honduras	205	112	175	130	53
Equatorial Guinea	1	1	1	1	1	Jamaica	115	85	44	40	65
Gambia, The	6	5	9	4	4	Nicaragua	-	-	-	-	4
Ghana	2	4	3	7	10	Panama	74	33	12	1	-
Guinea	4	13	2	18	16	Paraguay	1	1	1	1	1
Guinea-Bissau	4	2	1	1	2	Peru	38	26	21	28	22
Kenya	40	43	37	43	56	ROCAP ²	107	63	58	59	48
						Regional	30	30	29	74	100
						Non-regional	1,453	1,168	1,116	1,269	1,296

- 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. 1401. U.S. Exports and Imports of Merchandise: 1960 to 1990

[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 other tables 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	Mer- chandise trade balance	EXPORTS ¹					GENERAL IMPORTS ⁴				AVERAGE ANNUAL PERCENT CHANGE ⁵	
		Total ²	Domestic				Total ³	Petro- leum	Machin- ery	Trans- port equip- ment	Domes- tic exports	General imports
			Total ³	Agri- cultural	Machin- ery	Trans- port equip- ment						
1960	4.6	19.6	19.4	(NA)	(NA)	(NA)	15.0	(NA)	(NA)	(NA)	19.8	0.1
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	1.9	14.0
1972	-6.4	49.2	48.4	9.4	13.2	8.3	55.6	4.3	7.8	9.6	13.1	21.9
1973	1.3	70.8	69.7	17.7	17.1	10.7	69.5	7.6	10.0	11.1	43.9	25.0
1974	-4.5	98.1	96.5	22.0	23.7	14.5	102.6	24.3	11.6	12.5	38.6	47.6
1975	9.1	107.7	106.1	21.9	28.5	17.2	98.5	24.8	12.0	12.2	9.8	-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	5.2	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	26.6	19.9
1980	-24.2	220.6	216.5	41.3	55.8	28.8	244.9	77.6	31.9	28.6	21.3	16.9
1981	-27.3	233.7	228.9	43.3	62.9	32.8	261.0	75.6	38.2	31.4	5.9	6.6
1982	-31.8	212.3	207.1	36.6	60.3	23.6	244.0	59.4	39.7	33.6	-9.2	-6.5
1983	-57.5	200.5	196.0	36.1	54.3	28.3	258.0	52.3	47.0	39.2	-5.6	5.7
1984	-107.9	217.9	212.1	37.8	60.3	29.7	325.7	55.9	68.4	50.8	8.7	26.2
1985	-132.1	213.1	206.9	29.2	59.5	34.8	345.3	49.6	75.3	62.0	-2.2	6.0
1986	-152.7	217.3	206.4	26.1	60.4	34.9	370.0	34.1	87.5	74.0	2.0	7.2
1987	-152.1	254.1	243.9	28.6	69.6	39.0	406.2	41.5	99.4	78.4	16.9	9.8
1988	-118.6	322.4	310.0	37.0	88.4	46.7	441.0	38.8	117.3	79.8	26.9	8.6
1989	-109.6	363.8	349.4	40.0	98.3	50.5	473.4	49.1	126.8	79.0	12.8	7.3
1990	-101.0	394.0	375.6	(NA)	(NA)	(NA)	495.0	(NA)	(NA)	(NA)	8.3	4.6

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, 1982-1989, 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, 1960-1988, *Highlights of U.S. Export and Import Trade*, FT 990, monthly; beginning 1989, *U.S. Merchandise Trade: Export, General Imports, and Imports for Consumption*, FT 925, monthly.

No. 1402. U.S. Exports, by State of Origin: 1988 to 1990

[In millions of dollars. Exports are on a f.a.s. value basis]

STATE	1988	1989	1990		STATE	1988	1989	1990	
			Total	Rank				Total	Rank
Total	322,225	364,350	394,045	(X)	MT	350	283	229	48
U.S.	235,956	271,830	315,065	(X)	NE	747	669	693	42
AL	2,347	2,950	2,834	27	NV	223	283	394	44
AK	1,742	2,024	2,850	26	NH	869	935	973	38
AZ	2,880	3,300	3,729	22	NJ	5,954	6,492	7,633	14
AR	597	728	920	39	NY	19,359	19,580	22,072	4
CA	34,678	40,231	44,520	1	NC	5,373	6,571	8,010	13
CO	1,783	2,153	2,274	29	ND	220	299	360	45
CT	3,085	3,667	4,356	19	OH	8,900	10,172	13,378	7
DE	752	841	1,344	36	OK	1,243	1,428	1,646	32
DC	139	229	320	(X)	OR	3,307	3,878	4,065	20
FL	9,437	10,196	11,634	9	PA	5,903	6,809	8,491	12
GA	3,747	4,859	5,763	15	RI	449	526	595	43
HI	131	160	179	50	SC	2,431	2,875	3,116	25
ID	613	750	898	40	SD	78	129	205	49
IL	8,878	10,434	12,965	8	TN	2,421	2,918	3,746	21
IN	3,773	4,246	5,273	16	TX	26,384	30,020	32,931	2
IA	1,793	2,172	2,189	30	UT	826	1,114	1,596	34
KS	1,472	1,674	2,113	31	VT	796	1,016	1,154	37
KY	2,396	2,509	3,175	23	VA	6,740	7,657	9,333	11
LA	12,658	15,033	14,199	6	WA	13,707	19,305	24,432	3
ME	593	691	870	41	WV	1,141	1,234	1,550	35
MD	1,805	2,441	2,592	28	WI	3,966	4,129	5,158	17
MA	7,688	8,619	9,501	10	WY	216	237	264	46
MI	13,907	14,881	18,474	5	PR	2,356	2,901	3,600	(X)
MN	4,186	4,413	5,091	18	VI	35	63	51	(X)
MS	1,114	1,466	1,605	33	Other ¹	83,875	89,556	75,328	(X)
MO	1,995	2,415	3,130	24					

X Not applicable. ¹ Includes unreported, not specified, special category, estimated shipments, foreign trade zone, re-exports.

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade*, series FT 900, December issues.

No. 1403. U.S. Domestic Exports and General Imports of Selected Commodities—Value, by Area: 1989

[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		
		Canada	Mexico	United Kingdom	West Germany	France	Italy	Japan	China: Taiwan	South Korea
Domestic exports, total	350,017	74,977	24,117	19,643	16,069	10,919	6,929	42,764	10,975	13,208
Agricultural commodities	40,003	2,148	2,683	653	964	421	633	8,003	1,742	2,573
Nonagricultural commodities	310,014	72,829	21,434	18,990	15,105	10,498	6,296	34,761	9,233	10,635
Food and live animals	19,724	1,903	1,990	469	384	371	338	7,238	1,008	1,217
Meat and meat preparations	2,819	218	273	8	6	53	15	1,627	32	87
Grain and cereal preparation	15,458	209.0	976	35	66	15	112	2,452	682	950
Wheat and wheat flour	6,187	2	66	4	(Z)	(Z)	81	476	131	298
Corn	6,690	76	449	6	46	7	27	1,561	541	641
Beverages and tobacco	5,510	82	19	83	231	22	59	1,388	622	119
Crude materials, excluding fuels	26,627	2,288	1,493	798	1,255	445	906	7,233	1,361	2,872
Soybeans	3,997	37	309	73	180	46	59	866	447	220
Logs and lumber	4,965	439	143	90	108	26	158	2,732	132	310
Metal ores and scrap	5,313	819	225	238	236	61	66	1,159	264	617
Mineral fuels and related materials	9,823	1,678	712	259	102	334	632	1,510	516	344
Bituminous coal	4,242	683	1	203	32	269	490	595	170	172
Chemicals and related products	36,485	4,210	2,195	1,554	1,515	931	731	4,664	1,751	1,642
Manufactured goods	276,359	68,977	19,759	18,029	14,089	9,741	4,967	25,283	7,903	8,612
Textile yarn, fabric, articles	3,897	696	387	273	139	74	75	297	70	89
Iron and steel mill products	3,167	598	434	91	38	32	114	250	74	309
Machinery	139,994	15,634	8,327	8,579	5,690	5,093	1,969	8,467	3,459	3,658
Power generating	14,166	2,915	852	1,158	659	1,917	203	779	523	219
Agricultural ²	2,305	735	108	121	65	209	28	103	11	22
General industrial	13,096	2,745	1,228	844	581	449	227	833	498	592
Office machinery and computers	23,184	2,572	691	3,017	2,339	1,274	683	3,001	435	624
Telecommunications ³	7,669	803	1,161	745	277	147	142	848	367	225
Electrical ⁴	23,921	3,752	3,477	1,437	1,134	725	436	1,925	1,216	1,088
Transport equipment	50,517	17,560	2,486	2,982	3,017	1,262	639	2,993	992	1,359
Automobile, motor vehicles ⁵	25,480	15,891	2,080	360	724	379	91	852	745	156
Aircraft and parts	23,638	1,669	406	2,622	2,293	883	568	2,141	247	1,203
Professional, scientific, and controlling instruments	10,924	1,201	656	890	962	613	443	1,589	299	370
General imports, total	472,926	88,210	27,186	18,242	24,834	13,029	11,946	93,586	24,326	19,742
Agricultural commodities	22,099	2,923	2,290	227	542	775	612	210	152	53
Nonagricultural commodities	450,827	85,287	24,896	18,015	24,292	12,254	11,334	93,376	24,174	19,689
Food and live animals	20,685	3,521	2,391	164	273	150	218	290	341	188
Meat and meat preparations	2,565	557	(Z)	1	2	4	3	4	1	(Z)
Fish, including shellfish	5,397	1,213	393	29	3	23	2	172	216	147
Vegetables and fruit	4,937	252	1,068	18	79	20	38	34	80	18
Coffee	2,272	2	492	(Z)	40	(Z)	1	(Z)	-	(Z)
Beverages and tobacco	4,364	577	252	611	178	884	331	34	2	6
Crude materials, excluding fuels	15,370	7,983	627	162	160	116	103	178	89	52
Paper base stocks	3,078	2,686	8	(Z)	1	(Z)	-	(Z)	(Z)	-
Wood	3,521	3,157	102	1	4	1	15	(Z)	22	(Z)
Metal ores and scrap	3,883	1,213	176	39	53	22	3	22	8	4
Mineral fuels and related materials	52,649	7,770	4,299	1,663	105	154	333	140	(Z)	29
Crude petroleum	35,400	3,132	4,014	1,182	(Z)	-	23	(Z)	-	4
Petroleum products	14,234	2,093	256	473	45	144	300	53	(Z)	25
Natural gas	1,761	1,695	-	-	-	-	-	-	-	-
Chemicals and related products	20,752	3,934	582	2,030	2,828	1,502	722	2,373	349	185
Manufactured goods	379,597	68,269	19,596	15,638	24,105	11,721	10,847	92,924	23,892	19,466
Paper, paperboard	8,549	6,204	376	141	320	108	155	220	66	66
Iron and steel	10,578	1,657	307	400	844	648	241	2,476	133	479
Nonferrous metals	10,889	4,758	707	350	368	183	44	369	32	13
Machinery	126,758	11,490	9,739	5,478	8,770	3,626	2,380	43,959	8,387	6,961
Power generating	14,249	2,854	1,211	1,448	1,047	1,703	174	3,853	91	94
General industrial	14,470	1,731	725	950	1,948	372	694	4,118	922	447
Telecommunications ³	23,182	950	2,669	195	165	119	34	10,057	1,938	2,220
Electrical ⁴	32,338	2,443	4,202	844	1,882	573	266	9,217	2,309	2,675
Office machinery and data processing equipment	25,679	1,696	774	827	444	228	304	11,150	2,618	1,410
Transport equipment	79,003	27,640	2,437	2,375	6,200	2,401	975	29,439	884	1,900
Automobiles, buses, trucks	53,877	13,603	1,294	1,010	5,077	73	331	22,680	22	1,594
New passenger cars	44,703	12,871	1,175	950	5,051	73	281	19,921	22	1,594
Motor vehicle parts	15,269	5,850	1,073	354	924	551	256	5,162	266	94
Clothing	24,559	260	592	219	120	196	899	228	2,016	3,398
Footwear	8,393	55	170	34	31	56	816	7	2,805	2,183

¹ Represents zero. NA Not available. (Z) Less than \$500,000. ² Includes countries and regions not shown separately. ³ Includes sound recording and reproducing apparatus and equipment. ⁴ Electrical machinery, apparatus, appliances, and parts. ⁵ 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. 1404. U.S. Exports, Imports, and Merchandise Trade Balance, by Continent, Area, and Country: 1980 to 1990

[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	1988	1989	1990	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990
Total ²	220,783	213,146	320,385	363,785	394,045	244,871	345,276	441,292	473,396	495,042	-24,088	-132,190	-120,897	-109,631	-100,997
Developed countries ³	130,848	134,018	204,575	256,885	285,506	125,506	223,314	277,484	290,156	297,346	5,542	-89,296	-72,909	-55,426	-40,461
Percent of total	59	63	64	65	65	51	65	63	61	60	(X)	(X)	(X)	(X)	(X)
Developing countries ³	81,125	71,673	106,898	117,848	127,450	117,025	116,161	153,127	169,190	180,498	-35,900	-44,488	-46,229	-51,342	-53,048
Asia	9,060	7,368	7,431	7,715	7,951	34,410	11,964	10,683	14,009	15,869	-25,350	-4,576	-3,432	-6,294	-7,918
Africa	60,168	60,745	98,705	112,752	120,257	80,239	131,884	190,729	207,144	207,144	-71,139	-91,977	-91,024	-91,977	-86,887
Oceania	4,876	6,399	9,849	9,964	9,964	3,392	3,819	4,624	5,273	5,765	1,484	2,560	4,178	4,756	4,199
Europe	71,372	59,978	91,645	105,731	117,300	48,039	81,692	102,673	111,261	123,333	-23,333	-71,714	-11,028	103,390	6,038
North America	56,737	67,249	113,080	121,143	124,287	64,287	94,885	110,410	122,498	132,104	-7,550	-27,736	-12,402	-9,418	-10,990
South America	17,377	11,022	15,147	14,244	15,614	14,400	20,932	21,783	23,102	26,797	-9,910	-6,636	-8,858	-10,562	-10,562
Western Hemisphere	74,114	78,271	113,155	127,324	136,757	78,687	115,916	132,193	145,600	156,280	-4,573	-37,645	-19,038	-18,276	-21,523
Canada	35,395	47,251	69,233	78,266	82,967	41,459	69,006	80,921	86,210	91,372	-6,064	-21,755	-11,688	-9,944	-8,406
20 Latin American countries	36,030	27,850	40,077	44,396	49,425	29,952	43,448	48,914	54,816	64,095	6,078	-15,598	-8,837	-10,420	-14,671
Other Western Hemisphere	2,688	3,170	3,845	4,667	4,366	7,277	3,462	2,358	2,539	2,813	-4,568	-292	1,487	2,148	1,554
Central American Common Market	1,951	1,622	2,254	2,580	2,938	1,849	1,722	1,935	2,275	2,548	102	-100	319	305	390
Costa Rica	498	422	696	881	992	356	501	775	962	1,008	142	-79	-79	-81	-17
El Salvador	272	445	483	521	556	427	396	284	245	238	-155	49	199	276	318
Guatemala	552	405	591	662	759	435	409	433	608	795	117	-4	158	53	36
Honduras	378	308	478	515	563	419	375	443	489	492	-40	-67	35	26	71
Nicaragua	250	42	6	2	68	211	41	1	Z	15	39	1	5	2	53
Latin American Free Trade Association	32,274	24,414	35,346	38,942	43,484	26,735	39,943	44,812	50,288	56,242	5,539	-15,529	-9,566	-11,346	-12,759
Argentina	2,625	721	1,056	1,037	1,179	741	1,069	1,438	1,398	1,509	1,884	-348	-382	-361	-330
Bolivia	172	120	148	144	139	182	99	117	120	203	-10	21	31	24	-65
Brazil	4,343	3,140	4,289	4,799	5,062	3,715	7,526	9,324	8,378	7,977	628	-4,386	-5,035	-3,580	-2,915
Chile	1,353	682	1,065	1,411	1,672	515	745	1,162	1,308	1,321	838	-63	-97	103	351
Colombia	1,736	1,468	1,758	1,916	2,038	1,241	1,331	2,167	2,548	3,175	495	137	-409	-832	-1,136
Ecuador	864	591	684	641	680	876	1,837	1,231	1,484	1,378	-12	-246	-547	-843	-697
Mexico	15,145	13,635	20,643	24,969	28,376	12,580	18,132	23,277	27,186	30,172	2,565	-5,497	-2,634	-2,217	-1,797
Paraguay	109	99	194	167	307	81	24	37	45	51	28	75	157	122	256
Peru	1,171	496	798	690	778	1,386	1,087	656	813	803	-215	-591	142	-123	-25
Uruguay	183	64	100	133	145	97	557	275	218	208	86	-493	-175	-85	-63
Venezuela	4,573	3,389	4,611	3,036	3,107	5,321	6,537	5,228	6,786	9,447	-748	-3,138	-617	-3,750	-6,339
Other Latin America	1,805	1,814	2,477	2,849	3,004	1,368	1,782	2,067	2,268	2,329	437	32	410	561	681
Cuba	(Z)	(Z)	3	3	1	(Z)	(Z)	(Z)	(Z)	(Z)	-	1	3	3	1
Dominican Republic	795	742	1,362	1,646	1,658	787	982	1,417	1,645	1,747	8	-240	-55	-55	-89
Haiti	311	396	479	471	478	252	390	384	375	343	59	6	95	96	135
Panama	699	675	633	729	867	330	410	266	268	233	369	265	367	461	634

CONTINENT, AREA, AND COUNTRY	EXPORTS, DOMESTIC AND FOREIGN					GENERAL IMPORTS ¹					MERCHANDISE TRADE BALANCE				
	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990
Other Western Hemisphere															
Anguilla	2,688	3,170	3,845	4,687	4,366	7,277	3,462	2,358	2,539	2,813	-4,589	-292	1,487	2,148	1,554
Antigua	152	179	14	17	15	36	95	1	(2)	(2)	116	104	13	17	15
Bahamas, The	396	786	741	773	773	1,489	828	411	482	509	-1,073	180	330	311	292
Barbados	136	173	159	174	182	98	202	51	48	32	-40	-29	108	128	130
Belize	58	58	103	101	106	60	47	51	43	47	47	9	52	58	59
Bermuda	136	258	286	354	255	13	7	10	12	12	123	251	279	344	242
Guadeloupe	67	28	30	34	54	13	3	1	2	2	1	60	25	31	53
Greenland	3	3	4	4	4	14	3	1	1	1	-11	3	3	2	5
Guyana	96	43	68	78	76	120	3	61	55	52	-24	-4	17	23	24
Jamaica	305	404	758	1,019	844	383	273	444	538	589	-78	131	314	472	375
Netherlands Antilles	448	427	432	413	542	2,564	808	411	384	421	-2,116	-381	21	29	121
Suriname	136	86	93	136	157	109	80	88	78	50	27	26	5	60	107
Trinidad and Tobago	880	504	328	352	430	2,383	1,258	719	768	1,016	-1,703	-754	-391	-206	-586
Other	74	200	829	1,020	835	23	33	122	160	103	167	707	860	733	733
Western Europe	67,512	56,763	87,995	100,435	113,034	46,802	79,756	100,515	101,725	108,986	20,310	-22,993	-12,520	-1,290	4,048
OECD⁴	68,654	56,084	87,236	99,708	112,136	46,137	79,165	99,558	100,816	108,024	20,517	-23,081	-12,322	-1,108	4,112
Belgium and Luxembourg ⁵	58,991	48,996	75,526	86,552	98,023	37,882	67,822	84,953	85,292	91,888	20,809	-18,828	-9,027	-1,300	6,156
Denmark	8,881	4,918	7,405	8,657	10,448	1,914	3,387	4,578	4,555	4,578	4,747	1,531	2,887	4,102	5,870
France ⁶	7,485	6,036	10,133	11,585	13,652	5,265	9,482	12,228	13,014	13,124	2,220	-3,386	-2,095	-1,439	-567
Greece ⁶	322	498	649	706	784	292	385	529	473	507	630	103	120	129	528
Ireland	536	1,342	2,182	2,494	2,539	413	901	1,373	1,585	1,746	423	441	809	529	794
Italy	5,511	4,825	6,785	7,232	7,987	4,325	9,674	11,811	11,933	12,774	1,186	-5,049	-4,826	-4,701	-4,736
Netherlands	8,869	7,289	10,095	11,393	13,016	1,913	4,091	4,587	4,810	4,972	6,758	3,188	5,508	6,963	8,044
Portugal	911	895	752	926	922	278	548	691	800	833	633	149	161	126	90
Spain ⁷	3,179	2,524	4,217	4,798	5,208	1,220	2,515	3,205	3,317	3,310	1,953	9	102	149	1,899
United Kingdom	12,894	11,273	18,404	20,866	23,484	9,842	14,937	18,042	18,319	20,288	2,852	-3,982	362	2,547	3,196
West Germany	10,960	9,050	14,331	18,883	21,690	11,693	20,239	26,503	24,971	28,109	-732	11,189	-12,172	-8,088	8,419
Other OECD⁴	7,962	7,091	11,311	13,116	14,113	8,255	11,343	14,567	15,683	16,158	-293	-4,252	-3,256	-2,567	-2,044
Austria	447	441	873	873	873	389	834	1,085	1,138	1,376	58	-393	-337	-263	-443
Finland	505	438	783	969	1,126	439	895	1,208	1,370	1,267	66	-457	-443	-401	-141
Iceland	79	38	98	179	232	200	248	190	208	183	-121	-210	-92	-29	89
Norway	843	866	933	1,036	1,281	2,632	1,164	1,452	1,991	1,848	-1,789	-498	-519	-956	-587
Sweden	1,767	1,925	2,705	3,140	3,404	1,617	4,124	4,995	4,882	4,931	150	-2,199	-2,990	-1,752	-1,527
Switzerland	3,781	2,288	4,221	4,915	4,944	2,803	3,476	4,657	4,714	5,452	978	-1,188	-436	-201	-507
Turkey	540	1,295	1,843	2,004	2,263	175	602	983	1,372	1,180	365	693	860	633	1,073
Other Western Europe	868	679	759	712	836	464	591	967	908	877	394	88	188	197	-42
Yugoslavia	756	595	534	501	566	445	542	807	795	773	310	53	-313	-298	-207
Other	102	84	225	211	270	18	49	110	107	105	84	36	115	104	165

See footnotes at end of table.

No. 1404. U.S. Exports, Imports, and Merchandise Trade Balance, by Continent, Area, and Country: 1980 to 1990—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	1989	1990	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990
Eastern Europe	3,660	3,215	3,650	5,296	4,266	1,437	1,836	2,158	2,341	2,275	2,423	1,279	1,492	2,955	1,991
Bulgaria	161	104	127	181	84	25	36	27	39	47	136	68	100	142	37
Czechoslovakia	185	63	55	53	89	69	76	88	87	87	116	13	33	34	2
East Germany	479	73	109	94	62	44	92	110	139	95	435	19	-1	-45	623
Hungary	80	94	78	122	157	107	218	284	329	349	27	-124	-216	-207	-192
Poland	714	238	304	414	406	416	220	378	387	409	298	18	-74	27	-2
Romania	722	208	202	156	369	312	882	681	651	631	410	-674	-479	-498	138
Soviet Union	1,513	2,423	2,768	4,271	3,088	454	409	578	703	1,065	1,059	2,014	2,190	3,568	2,022
Other	7	12	7	5	10	10	3	2	3	2	-3	9	5	2	8
Asia	60,168	60,745	98,705	112,752	120,257	90,299	131,084	190,728	204,729	207,144	-20,131	-71,139	-91,024	-91,977	-86,887
Japan	20,790	22,631	37,732	44,584	48,585	30,714	68,783	89,802	93,586	89,655	-9,924	-46,152	-52,070	-49,002	-41,071
Near East Asia	11,900	9,709	10,857	11,143	11,198	18,672	6,267	11,511	15,142	18,880	-6,772	3,442	-654	-3,999	-7,482
Bahrain	197	107	281	489	718	16	84	99	80	51	181	23	182	409	638
Iran	23	74	73	60	167	458	725	9	9	7	-435	-651	64	51	160
Iraq	724	427	1,156	1,174	732	480	474	1,488	2,408	3,015	264	-47	-332	-1,234	-2,283
Israel	2,045	2,239	3,248	3,239	3,200	950	2,123	2,978	3,239	3,313	1,095	116	270	373	298
Jordan	407	377	373	381	309	3	14	12	8	12	404	363	361	373	288
Kuwait	886	551	690	855	401	494	184	464	975	570	392	367	226	-120	-169
Lebanon	303	141	89	94	98	33	19	40	31	24	270	122	49	63	74
Saudi Arabia	5,768	4,474	3,799	3,576	4,035	12,648	1,907	5,594	7,181	9,974	-6,880	2,567	-1,795	-3,605	-5,940
Syria	239	106	89	92	150	26	3	37	98	52	213	103	52	-6	98
Other	1,307	1,213	1,059	2,644	1,388	3,594	734	790	1,113	1,633	-2,277	479	269	1,531	-245
Other Asia	27,476	28,405	51,116	57,025	60,474	30,913	56,834	89,416	96,001	98,809	-3,435	-28,429	-38,300	-38,976	-38,335
Afghanistan	11	3	6	5	4	6	7	5	5	5	5	-4	1	-1	-1
Burma	29	10	11	5	20	9	14	12	17	23	20	-4	-1	-12	-3
China: Mainland	3,755	3,886	5,039	5,755	4,807	1,062	3,962	8,512	11,990	15,234	2,693	24	-3,473	-6,235	-10,417
Hong Kong	4,337	4,700	12,130	11,323	11,482	6,854	16,396	24,804	24,326	22,667	-2,517	-11,696	-12,674	-13,003	-11,184
India	2,686	2,786	5,691	5,304	6,840	4,739	8,306	10,243	9,739	9,488	-2,053	-5,810	-4,552	-3,435	-2,648
Indonesia	1,689	1,642	2,498	2,463	2,486	1,098	2,295	2,932	3,314	3,191	581	-853	-454	-851	-705
Kampuchea	1,545	795	1,056	1,256	1,897	5,217	4,569	3,198	3,548	3,343	-3,672	-3,774	-2,132	-2,292	-1,446
Laos	26	1	1	(Z)	(Z)	(Z)	(Z)	3	1	(Z)	26	-	-	-2	1
Malaysia	1,337	1,509	2,139	2,975	3,435	2,577	2,300	3,711	4,745	5,272	-1,240	-781	-1,572	-1,870	-1,848
Pakistan	642	1,042	1,093	523	1,143	128	274	461	523	609	514	788	632	-0	534

Merchandise Trade, by Country

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CONTINENT, AREA, AND COUNTRY	EXPORTS, DOMESTIC AND FOREIGN					GENERAL IMPORTS ¹					MERCHANDISE TRADE BALANCE				
	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990	1980	1985	1988	1989	1990
Philippines.....	1,999	1,379	1,880	2,206	2,472	1,731	2,145	2,682	3,064	3,383	268	-766	-802	-858	-911
Singapore.....	3,033	3,476	4,053	7,353	8,019	1,921	4,260	7,996	8,950	9,840	1,112	-784	-3,943	-1,597	-1,820
South Korea.....	4,685	5,956	11,290	13,478	14,389	4,147	10,013	20,189	19,742	18,483	538	-4,057	-8,899	-6,264	-4,095
Sri Lanka.....	62	73	124	143	137	126	282	495	498	538	-64	-209	-300	-356	-401
Thailand.....	1,263	849	1,964	2,292	2,991	816	1,428	3,218	4,378	5,294	447	-579	-1,254	-2,086	-2,302
Other.....	379	269	2,141	1,044	350	462	593	1,016	1,160	1,440	-103	-324	-1,125	-116	-1,090
Oceania.....	4,876	6,399	8,242	9,949	9,964	3,392	3,819	4,824	5,273	5,765	1,484	2,580	3,418	4,576	4,199
Australia.....	4,093	5,441	6,981	8,347	8,535	2,509	2,837	3,511	3,898	4,433	1,564	2,604	3,470	4,449	4,102
New Zealand.....	599	727	1,133	1,118	1,133	703	860	1,166	1,207	1,199	-104	-104	-224	-89	-86
Other Oceania.....	184	231	319	384	296	180	122	147	168	133	4	109	172	216	164
Africa.....	9,060	7,388	7,431	7,715	7,951	34,410	11,964	10,863	14,009	15,869	-25,350	-4,576	-3,432	-6,294	-7,918
Algeria.....	542	430	733	759	948	6,577	2,333	1,813	1,836	2,645	-6,035	-1,903	-1,060	-1,077	-1,698
Angola.....	111	137	101	98	150	742	1,054	1,216	1,863	1,958	-917	-1,115	-1,115	-1,765	-1,808
Cameroon.....	83	69	32	36	46	605	324	219	413	158	-512	-255	-167	-377	-112
Central African Republic.....	1	1	3	6	1	9	1	1	3	2	-6	-	-	3	-1
Egypt.....	1,874	2,323	2,340	2,610	2,249	539	79	221	227	396	1,335	2,244	2,119	2,383	1,852
Ethiopia.....	72	203	181	69	157	87	43	54	70	40	-15	160	127	-1	117
Gabon.....	48	91	56	46	49	343	502	175	418	720	-285	-411	-119	-372	-671
Ghana.....	127	54	117	123	138	206	90	202	127	169	-79	-36	-85	-4	-30
Ivory Coast.....	185	70	75	79	78	288	525	280	237	200	-103	-455	-215	-158	-121
Kenya.....	141	97	92	133	116	54	92	64	68	58	87	5	28	65	58
Libya.....	113	73	68	98	44	128	83	108	107	49	-15	-10	-40	-9	-5
Madagascar.....	509	311	(2)	(2)	(2)	8,585	44	33	(2)	49	-8,086	267	-38	-31	-30
Mauritania.....	7	33	12	7	13	91	53	10	36	42	-84	-20	2	8	-11
Morocco.....	344	279	428	398	497	35	39	92	98	109	309	240	336	300	388
Mozambique.....	69	56	41	38	50	105	16	21	20	29	-36	40	36	21	31
Nigeria.....	1,150	676	356	492	551	11,105	3,002	3,258	5,227	5,977	-9,955	-2,326	-2,942	-4,755	-5,426
South Africa.....	2,463	1,205	1,690	1,656	1,732	3,321	2,071	1,530	1,539	1,701	-868	-968	-160	-130	-122
Sudan.....	142	243	8	8	42	19	10	18	20	16	135	234	96	61	26
Tanzania.....	62	46	28	20	48	32	9	23	23	15	30	36	10	-24	33
Tunisia.....	173	256	165	160	179	80	13	10	43	56	32	113	142	164	147
Uganda.....	12	16	16	23	26	136	113	58	40	11	-114	-243	-42	-17	-10
Zaire.....	153	105	135	122	138	418	40	365	333	319	-263	-296	-246	-211	-178
Zambia.....	98	60	26	50	8	200	58	90	24	23	-62	-2	6	26	52
Other.....	549	539	582	583	605	727	1,009	965	1,162	1,167	-178	-470	-383	-599	-562

- Represents zero. X Not applicable. 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 14.38). OECD = Organization of Economic Cooperation and Development. 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. ⁴ Effective October 3, 1990, East Germany ceased to exist as a sovereign state and became a part of West Germany. Accordingly, trade statistics for East Germany reflect trade for January through September 1990. Trade statistics for 1990 for West Germany reflect this unification beginning with October 1990.

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

No. 1405. U.S. Exports and Imports for Consumption of Merchandise, by Coastal Area and Customs District: 1980 to 1989

[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 also *Historical Statistics, Colonial Times to 1970*, series U 264-273]

U.S. COASTAL AREA AND CUSTOMS DISTRICT	EXPORTS							IMPORTS FOR CONSUMPTION						
	1980	1984	1985	1986	1987	1988	1989	1980	1984	1985	1986	1987	1988	1989
Total ¹	220.8	217.9	213.1	217.3	252.9	320.4	363.8	244.0	323.0	343.6	368.7	402.1	437.1	468.0
North Atlantic area	68.8	49.7	46.5	51.8	53.4	69.2	79.2	79.8	104.4	107.1	115.6	123.0	126.3	126.8
Portland, ME.	4.3	0.7	0.6	0.6	0.8	1.0	1.2	1.6	2.3	2.3	2.7	3.3	3.4	3.5
St. Albans, VT.	0.7	1.1	1.1	1.3	1.6	1.9	2.7	1.6	2.5	2.7	2.7	3.2	3.6	4.2
Boston, MA.	0.8	2.8	3.0	3.8	4.4	5.7	6.2	5.0	8.1	8.2	9.2	12.0	12.6	12.0
Providence, RI.	2.7	0.1	0.1	(Z)	(Z)	(Z)	(Z)	1.5	2.6	2.3	2.7	1.6	1.5	1.4
New York, NY.	38.9	31.3	28.5	33.4	32.8	42.4	47.0	43.4	59.2	60.5	67.0	68.4	69.7	70.4
Philadelphia, PA.	3.2	2.1	2.0	1.9	2.4	3.4	3.9	15.6	15.8	15.8	13.7	15.6	15.6	16.0
Baltimore, MD.	9.0	5.8	5.5	4.9	5.4	6.8	7.7	6.0	8.5	8.8	11.0	11.8	12.1	11.8
Norfolk, VA.	8.0	5.4	5.4	5.3	5.5	7.3	9.4	4.7	5.0	6.0	5.8	6.3	7.0	6.8
Washington, DC.	0.3	0.4	0.5	(Z)	0.5	0.7	1.1	0.4	0.4	0.5	0.8	0.7	0.8	0.7
South Atlantic area	14.7	15.6	15.0	16.6	18.7	24.2	27.7	15.5	20.5	20.4	24.0	26.6	28.4	31.5
Wilmington, NC.	1.3	1.3	1.3	1.2	1.1	1.4	2.1	1.1	1.7	1.9	2.4	2.5	2.9	3.0
Charleston, SC. ²	3.1	2.9	2.9	3.0	3.6	5.0	6.2	1.8	3.0	3.3	4.9	5.9	6.1	6.5
Savannah, GA.	2.4	3.7	3.4	3.8	4.4	6.0	6.8	2.2	4.7	5.1	6.4	7.4	8.3	4.5
San Juan, PR.	0.9	1.4	1.2	1.3	1.4	1.7	2.1	3.7	4.3	4.0	3.8	3.9	4.1	4.7
Virgin Islands of the U.S.	0.1	0.2	0.1	(Z)	0.1	0.1	0.1	4.1	2.5	1.7	1.2	1.7	1.0	1.6
Miami, FL.	6.9	6.2	6.1	7.2	8.1	9.9	10.4	2.6	4.3	4.4	5.2	5.7	6.0	6.2
Gulf area	51.1	43.4	38.4	34.9	39.0	49.7	56.9	62.3	52.4	50.5	48.1	53.1	56.3	64.1
Tampa, FL.	2.8	2.8	2.8	2.1	2.7	3.6	4.0	3.7	5.7	6.6	7.6	7.4	7.3	6.7
Mobile, AL. ²	2.6	1.2	1.1	1.3	1.4	1.4	1.9	3.0	3.4	2.8	2.3	2.9	2.8	3.4
New Orleans, LA.	19.5	16.8	13.9	13.1	14.0	16.9	18.5	22.5	14.3	14.7	14.8	15.9	17.1	20.6
Port Arthur, TX.	2.0	1.7	0.8	0.8	0.9	1.1	1.2	9.4	5.2	2.7	1.3	1.9	1.8	2.8
Laredo, TX.	8.3	6.2	7.2	6.3	7.5	10.6	13.4	2.7	4.6	4.8	5.7	6.8	7.9	9.4
St. Louis, MO.	0.2	0.1	0.1	0.2	0.2	0.2	0.5	0.9	1.4	1.6	2.0	2.3	2.7	3.0
Houston/Galveston, TX.	15.7	14.7	12.5	11.2	12.5	15.9	17.4	20.1	17.8	17.3	14.5	16.0	16.7	18.2
Pacific area	43.8	47.8	49.6	52.4	61.1	82.8	98.9	43.1	66.9	80.4	91.4	101.6	111.8	121.4
San Diego, CA.	1.4	1.4	1.6	1.5	1.7	2.5	3.0	1.0	1.6	1.8	2.2	2.7	3.4	4.0
Los Angeles, CA.	14.8	18.4	19.5	19.9	23.7	32.0	38.6	20.0	31.1	44.1	48.5	53.6	58.0	62.3
San Francisco, CA.	10.6	12.4	11.3	11.4	14.3	19.1	21.4	8.3	16.2	15.5	19.1	21.8	25.1	27.1
Portland, OR.	3.8	4.1	3.5	3.2	3.7	5.6	6.2	2.6	3.6	3.8	4.7	4.6	5.8	5.7
Seattle, WA.	12.0	10.1	12.1	14.9	15.7	20.9	26.6	9.2	12.7	13.4	15.3	17.2	17.8	20.2
Anchorage, AK.	1.0	1.1	1.3	1.3	1.7	2.2	2.6	0.2	0.3	0.2	0.3	0.1	0.2	0.4
Honolulu, HI.	0.2	0.3	0.4	0.2	0.4	0.6	0.5	1.8	1.4	1.6	1.4	1.6	1.6	1.7
Great Lakes area	35.0	46.9	46.5	46.1	54.8	62.6	63.9	37.0	68.0	72.3	75.7	81.9	95.9	103.7
Ogdensburg, NY.	3.8	4.5	4.1	4.4	4.7	5.3	5.6	4.6	7.1	6.8	7.5	7.9	8.5	9.2
Buffalo, NY.	6.3	8.5	8.4	8.2	9.5	10.5	9.5	7.4	13.7	14.7	15.5	15.4	18.1	19.0
Pembina, ND.	2.3	2.3	2.2	2.3	2.5	2.8	3.4	3.0	3.4	3.2	2.6	2.7	3.3	3.9
Minneapolis, MN.	0.1	0.2	0.2	0.2	0.3	0.5	0.8	0.3	0.8	1.0	1.2	1.4	1.6	1.9
Duluth, MN.	1.5	1.6	0.9	0.8	0.7	1.2	1.2	3.0	3.3	3.0	2.4	2.9	3.2	3.5
Milwaukee, WI.	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.4	0.9	1.0	0.9	0.9	1.1	0.9
Detroit, MI.	14.5	22.6	22.8	21.3	26.8	30.1	28.9	12.7	25.9	27.4	27.9	29.7	35.7	38.7
Chicago, IL.	4.2	5.1	5.4	6.1	6.9	8.7	10.0	4.1	10.1	11.4	12.3	13.8	16.1	17.4
Cleveland, OH.	1.8	1.9	2.1	2.7	3.4	3.4	3.9	1.5	2.8	3.8	5.4	7.3	8.3	9.2
Other statistical areas ³	7.4	14.5	17.1	15.5	25.9	31.8	37.7	6.3	10.8	12.7	13.8	15.8	18.5	19.8
El Paso, TX.	1.8	1.8	2.1	2.3	2.6	3.8	4.0	1.4	2.2	2.5	3.0	3.4	4.5	5.1
Nogales, AZ.	0.8	0.9	0.8	0.8	1.0	1.3	1.5	1.2	1.9	2.0	2.4	3.1	3.2	3.7
Great Falls, MT.	1.8	1.4	1.5	1.1	1.2	1.6	1.8	3.2	3.9	4.0	3.3	3.7	4.0	4.1
Dallas/Fort Worth, TX.	0.5	0.8	1.0	1.2	1.5	2.1	2.7	1.2	2.2	2.4	3.2	3.3	4.1	4.1

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. ³ Includes estimated shipments and vessel-own power.

Source: U.S. Bureau of the Census, 1980-1988, *Highlights of U.S. Export and Import Trade*, FT 990; beginning 1989, U.S. *Merchandise Trade: Selected Highlights*, series FT 920, monthly.

No. 1406. Export and Import Unit Value Indexes—Selected Countries: 1984 to 1989

[Indexes in U.S. dollars, 1985=100. A unit value is an implicit price derived from value and quantity data. NA Not available]

COUNTRY	EXPORT UNIT VALUE						IMPORT UNIT VALUE					
	1984	1985	1986	1987	1988	1989	1984	1985	1986	1987	1988	1989
United States	101	100	101	103	110	113	103	100	97	104	109	112
Australia	112	100	97	108	132	141	106	100	105	116	123	127
Austria	102	100	133	158	161	146	100	100	125	144	147	142
Belgium-Luxembourg	101	100	119	135	(NA)	(NA)	103	100	111	125	(NA)	(NA)
Canada	104	100	95	100	111	(NA)	102	100	97	102	107	(NA)
Denmark	99	100	127	149	149	146	100	100	119	133	138	135
France	98	100	123	141	146	144	101	100	110	125	130	129
Italy	101	100	122	142	149	150	101	100	105	120	124	127
Japan	101	100	120	131	144	142	100	100	85	92	98	101
Norway	101	100	87	93	96	101	99	100	116	131	140	140
Sweden	100	100	120	138	148	151	101	100	111	128	138	137
United Kingdom	99	100	103	120	131	129	100	100	110	125	135	131
West Germany	100	100	131	154	158	156	101	100	114	129	133	134

NA Not available.

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

No. 1407. U.S. Exports and Imports—Indexes of Unit Value and Quantity: 1984 to 1988

[1977=100. Note: Series discontinued after 1988]

END-USE COMMODITY CATEGORY	INDEX OF EXPORT OF U.S. MERCHANDISE					INDEX OF GENERAL EXPORTS				
	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 except 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	380.9	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 except 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*, series FT 990, monthly, and unpublished data.**No. 1408. Domestic Exports, by Selected Commodity Groups: 1970 to 1989**

[In millions of dollars. Totals and subtotals include data for commodities not shown separately. Beginning 1980, exports include nonmonetary gold. Beginning 1980, commodity data 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	1970	1980	1983	1984	1985	1986	1987	1988	1989
U.S. merchandise.	42,590	216,668	195,969	212,057	206,925	206,376	243,859	310,049	349,433
Food and live animals	4,356	27,744	24,166	24,463	19,268	17,303	19,179	26,162	29,724
Meat and preparations	175	1,293	1,191	1,208	1,153	1,424	1,768	2,430	2,819
Dairy products and eggs	137	255	373	368	388	407	385	496	439
Cereal and Cereal preparations	2,596	18,079	15,152	16,076	11,050	7,368	8,058	12,281	15,458
Wheat and wheat flour	1,112	6,586	6,509	6,698	3,780	3,217	3,248	5,080	6,187
Rice	314	1,285	926	845	665	621	576	802	970
Coarse grains	1,072	9,866	7,231	8,241	6,251	3,132	3,742	5,897	7,739
Corn	824	8,570	6,480	7,081	5,319	2,718	3,314	5,191	6,690
Grain sorghums	196	1,080	747	880	639	389	406	685	990
Fruits and nuts	406	1,938	1,701	1,676	1,710	1,876	2,144	2,540	2,283
Fruits, fresh or dried	164	716	761	688	693	780	829	956	1,009
Vegetables	178	992	744	759	667	781	811	948	1,235
Feed for animals	497	2,878	2,802	2,226	1,891	2,622	2,692	3,426	3,016
Beverages and tobacco	702	2,663	2,813	2,849	2,958	2,920	3,667	4,556	5,510
Tobacco and manufactures	679	2,426	2,647	2,704	2,789	2,732	3,400	4,153	4,973
Leaf tobacco	481	1,334	1,462	1,511	1,521	1,209	1,090	1,252	1,341
Cigarettes	159	1,055	1,126	1,120	1,180	1,298	2,047	2,645	3,369
Crude materials, inedible, exc. fuels	4,605	23,791	18,596	20,249	16,939	17,324	20,416	25,151	26,947
Hides and skins, ex. fur skins	145	694	807	1,171	1,088	1,314	1,450	1,639	1,567
Fur skins, undressed	42	352	203	212	207	207	281	188	155
Soybeans	1,216	5,883	5,925	5,438	3,906	4,334	4,343	4,816	3,997
Synthetic rubber	176	695	543	624	584	849	761	858	770
Wood in the rough	366	2,002	1,366	1,372	1,448	1,418	1,848	2,549	2,827
Wood shaped or simply worked	193	1,060	914	841	760	994	1,349	1,825	2,130
Lumber, softwood	162	778	602	530	493	640	851	1,134	1,442
Woodpulp	464	1,652	1,432	1,502	1,343	1,662	2,250	2,915	3,613
Textile fibers and wastes	543	3,929	2,593	3,343	2,476	1,602	2,552	3,061	3,334
Raw cotton, excluding linters	372	2,864	1,817	2,441	1,633	773	1,631	1,975	2,250
Ores and metal scrap	940	4,518	2,276	2,666	2,682	2,802	3,018	4,729	5,313
Iron and steel scrap	447	1,226	637	918	917	1,054	967	1,352	1,749
Ores and scrap, nonferrous base	397	1,223	451	560	517	480	562	879	471
Mineral fuels and related materials	1,595	7,982	9,500	9,311	9,971	8,114	7,713	8,235	9,865
Coal	962	4,621	4,051	4,132	4,464	3,928	3,366	4,009	4,286
Petroleum and products	488	2,833	4,557	4,470	4,707	3,639	3,922	3,679	4,828
Lubricating oils	175	733	667	568	549	602	327	444	775
Animal and vegetable oils and fats	493	1,946	1,459	1,922	1,434	1,015	981	1,522	1,350
Tallow, inedible	176	677	568	617	538	350	362	477	391
Soybean oil	192	689	447	742	431	253	263	487	356

See footnotes at end of table.

No. 1408. Domestic Exports, by Selected Commodity Groups: 1970 to 1989—Continued

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

COMMODITY GROUP	1970	1980	1983	1984	1985	1986	1987	1988	1989
Chemicals and related products.	3,826	20,740	19,751	22,336	21,759	22,766	26,381	32,281	36,485
Chemical elements and compounds	1,642	2,106	1,838	2,183	1,967	1,771	2,113	2,702	2,807
Dyeing, tanning, coloring materials	137	490	491	493	461	507	628	707	1,097
Medicinal, pharmaceutical prod.	420	1,932	2,494	2,628	2,708	3,090	3,182	3,941	3,660
Fertilizers, manufactured	178	2,265	1,267	1,815	2,160	1,935	2,259	2,498	2,821
Plastic materials and resins ³	653	3,884	3,732	4,050	3,777	4,301	5,492	7,277	7,929
Machinery and transport equip.	17,882	84,628	82,578	89,973	94,278	95,290	108,596	135,082	148,800
Machinery ⁴	11,885	57,263	54,695	61,464	60,573	60,809	70,080	88,531	109,786
Power generating machinery	1,405	8,428	8,718	9,114	9,272	9,185	10,193	12,817	14,166
Agricultural machinery	182	1,295	832	965	854	772	868	1,070	1,317
Tractors and parts	750	2,150	1,389	1,921	1,832	1,155	1,250	1,573	1,808
Electronic computers, parts and accessories	1,236	7,763	10,599	13,461	13,841	14,514	17,495	22,448	21,422
Other office machines ⁵	311	946	1,070	1,131	1,087	866	1,074	1,212	1,400
Metalworking machinery	396	1,756	1,121	1,175	1,249	1,467	1,606	1,925	2,603
Metalcutting machines	213	397	204	217	246	307	332	389	440
Textile, leather machinery	273	693	453	520	498	554	661	820	1,049
Construction, excavating, and mining equipment	434	1,628	766	760	820	713	773	782	908
Materials handling equipment	607	2,243	946	911	924	873	964	1,337	958
Air-conditioning and refrigerating equipment	397	1,523	1,268	1,308	1,199	1,121	1,335	1,747	1,990
Pumping equipment, incl. parts	241	1,091	1,003	1,025	1,000	910	994	1,189	1,375
Pipe valves and parts	196	829	716	673	610	609	711	798	982
Power machinery, switchgear	611	3,254	3,221	3,652	3,381	3,486	4,009	5,306	6,378
Generators, generating sets	117	619	376	590	330	307	339	540	517
Transforming, converting, transmission apparatus	156	914	926	995	937	937	1,014	1,365	1,819
Telecommunications apparatus	660	3,454	3,804	3,943	4,167	4,407	5,085	6,544	7,669
Domestic electrical equipment	119	796	611	626	550	542	742	1,140	1,301
Transport equipment ⁶	6,197	27,366	27,298	28,509	33,708	34,026	38,000	45,497	49,730
Railway vehicles	91	452	402	584	426	538	346	311	416
Road motor vehicles, parts ⁶	3,245	13,117	13,492	17,651	19,445	17,695	19,952	23,972	24,089
Automobiles, nonmilitary, new	822	3,919	4,200	4,868	6,020	6,254	6,694	8,312	9,652
Trucks and tractor trucks, commercial, new	452	1,467	1,042	1,686	2,183	1,996	2,243	2,438	3,372
Parts, accessories	1,603	6,058	7,531	9,069	9,376	8,492	9,657	10,836	10,920
Aircraft, parts, and accessories	2,656	12,816	12,189	10,914	14,373	15,106	16,904	20,004	23,638
Civilian aircraft	1,528	8,256	7,531	4,147	6,694	7,366	7,517	10,294	14,153
Other manufactured goods	7,636	38,802	30,087	30,839	29,347	30,834	36,545	47,280	59,880
Tires and tubes	186	511	304	392	343	315	514	772	863
Paper and manufactures	622	2,831	2,553	2,620	2,329	2,802	3,180	3,892	4,195
Paper and paperboard	526	2,162	1,843	1,914	1,722	1,992	2,430	2,919	3,121
Nonmetallic mineral mfrs., n.e.c.	475	2,209	1,770	1,865	1,621	1,886	2,289	2,861	3,308
Metals and manufactures	2,978	12,071	6,954	6,979	6,285	5,200	6,421	10,032	12,593
Iron and steel mill products ⁷	1,188	2,998	1,415	1,248	1,152	1,020	1,223	2,017	3,167
Plates and sheets	335	936	295	284	270	291	362	839	1,663
Tubes, pipes, and fittings	226	1,080	731	605	510	391	436	635	831
Silver bullion, refined	31	1,327	169	86	82	57	79	94	247
Nonferrous base metals	893	2,964	1,606	1,634	1,798	1,195	1,699	3,041	3,988
Copper	358	434	386	395	298	682	345	707	889
Aluminum	358	2,022	1,010	990	937	816	1,202	2,116	2,730
Metal manufactures, n.e.c.	744	4,205	3,443	3,802	3,253	3,008	3,534	4,373	4,616
Tools for hand or machine	204	858	671	678	686	581	657	776	895
Textiles, other than clothing	603	3,632	2,368	2,382	2,366	2,570	2,933	3,650	3,897
Textile yarn and thread	145	753	533	547	628	573	677	910	1,032
Cotton broad-woven fabrics	103	566	201	193	204	301	292	286	369
Textile fabrics, woven, exc. cotton	151	832	430	424	388	466	555	629	577
Clothing	198	1,183	796	776	754	879	1,143	1,556	2,087
Professional, scientific, and controlling instruments	857	5,256	5,856	6,198	6,505	6,732	7,388	8,889	10,924
Photographic supplies	250	1,507	1,386	1,464	1,313	1,418	1,472	1,589	1,724
Printed matter	327	1,097	1,324	1,391	1,279	1,342	1,562	1,918	2,640
Other transactions	1,496	8,496	7,009	10,116	10,970	11,011	20,381	29,761	30,872
Firearms of war and ammunition	682	2,006	3,092	2,971	2,653	2,282	2,258	2,809	2,672
Estimated shipments ⁸	692	2,119	1,597	4,353	5,742	5,795	8,683	10,258	8,513

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 Beginning 1980, electric measuring and controlling instruments are included in "Other manufactured goods" under "Professional, scientific, and controlling instruments"; formerly classified under "Machinery." ⁸ 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, 1970-1988, *U.S. Exports, Schedule E-Commodity by County*, FT 410, monthly; beginning 1989, *U.S. Merchandise Trade, Exports, General Imports, Imports for Consumption*, series FT 925, monthly.

No. 1409. General Imports, by Selected Commodity Groups: 1970 to 1989

[In millions of dollars. Imports are customs value basis for years 1983 to present; f.a.s. (free alongside ship) value basis prior to 1983. 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 GROUP	1970	1980	1983	1984	1985	1986	1987	1988	1989
General imports	39,952	244,871	258,048	325,726	345,276	369,961	405,901	440,952	473,397
<i>C.i.f. values</i> ¹	42,429	256,984	269,878	341,177	361,626	387,081	424,082	459,542	493,352
Food and live animals	5,375	15,766	15,412	17,973	18,649	20,802	20,547	20,110	20,685
Cattle, except for breeding	111	228	301	279	301	426	421	598	662
Meat and preparations	1,014	2,346	2,034	2,034	2,237	2,367	2,786	2,738	2,565
Meat, fresh or frozen	647	1,756	1,384	1,381	1,533	1,655	1,987	2,043	1,462
Fish, including shellfish	794	2,612	3,594	3,671	3,985	4,691	5,590	5,327	5,397
Fruits and nuts	447	1,245	1,855	2,673	2,717	2,781	3,098	3,244	2,319
Bananas	188	416	569	627	723	709	773	779	856
Vegetables	289	802	1,065	1,218	1,261	1,420	1,378	1,418	1,785
Sugar	725	1,987	1,046	1,258	936	670	438	436	611
Coffee, green	1,160	3,872	2,590	3,064	3,130	4,293	2,706	2,030	2,272
Cocoa or cacao beans	201	395	349	411	564	418	504	405	384
Tea	53	131	132	203	166	133	106	129	127
Beverages and tobacco	855	2,784	3,408	3,553	3,727	3,868	4,105	4,123	4,364
Alcoholic beverages	725	2,232	2,626	2,853	2,966	3,066	3,268	3,414	3,396
Tobacco, unmanufactured	111	422	464	625	535	591	588	445	650
Crude materials, inedible, except fuels	3,307	10,516	9,590	11,082	10,391	10,432	11,526	13,624	15,370
Rubber, including latex	231	980	909	1,132	654	921	1,125	1,445	1,459
Lumber, softwood	439	1,984	2,590	2,687	2,909	2,984	3,086	2,959	2,872
Lumber, hardwood	61	145	127	161	166	153	250	214	260
Woodpulp	480	1,725	1,470	1,845	1,499	1,604	2,069	2,508	3,044
Textile fibers and wastes	202	242	312	387	348	358	438	523	663
Wool and other animal hair	116	146	176	211	166	186	251	331	341
Industrial diamonds	39	119	96	106	136	105	83	127	93
Asbestos, unmanufactured	75	97	58	65	44	27	23	22	14
Ores and metal scrap	1,149	3,715	2,498	2,890	2,331	2,148	2,446	3,264	3,883
Iron ore and concentrates	480	773	452	534	468	469	411	485	522
Nonferrous base metals ²	522	2,291	1,306	1,606	1,290	1,020	1,167	1,601	1,378
Aluminum ores, and concentrates (including bauxite)	165	432	250	311	210	189	234	251	345
Mineral fuels and related materials	3,075	82,924	57,952	60,980	53,917	37,310	44,219	41,042	52,649
Petroleum and products	2,764	77,637	52,325	55,906	49,607	34,140	41,529	38,175	49,141
Petroleum, crude and partly refined	1,448	65,717	36,809	36,529	33,034	22,720	29,321	25,844	35,400
Petroleum products	1,316	11,920	15,516	19,377	16,572	11,101	12,209	12,045	13,741
Natural gas	258	5,155	5,530	4,923	4,136	2,994	2,504	2,577	1,761
Animal and vegetable oils and fats	160	533	495	696	672	516	568	888	731
Chemicals and related products	1,450	8,593	10,779	13,697	14,533	15,001	16,213	19,560	20,752
Organic chemicals	355	2,541	3,477	4,265	4,576	4,704	5,408	6,853	7,042
Inorganic chemicals ²	371	2,313	2,568	3,458	3,401	3,276	3,042	3,596	3,231
Medicinal and pharmaceutical products	87	509	703	931	1,084	1,240	1,456	1,859	2,086
Fertilizers, manufactured	192	1,104	997	1,142	967	865	1,001	1,021	999
Machinery and transport equipment	11,172	60,558	66,131	119,192	137,264	161,562	177,809	197,017	205,761
Machinery	5,375	32,286	46,975	68,390	75,299	87,549	99,433	117,281	126,758
Engines and parts	782	1,866	3,570	6,348	8,849	8,482	9,391	10,897	12,021
Agricultural machinery	173	698	475	588	577	613	750	861	883
Tractors and parts	175	1,049	924	1,298	811	1,331	1,467	1,748	1,928
Office machines and data processing equipment	505	2,929	6,759	10,791	11,562	14,669	18,462	22,601	25,679
Metalworking machinery	164	1,425	1,480	2,025	2,759	3,249	2,976	3,327	3,880
Textile and leather machinery	361	889	1,059	1,282	1,105	1,447	1,811	2,088	2,069
Power machinery	247	2,038	2,974	7,291	8,849	9,802	10,860	10,972	11,351
Telecommunications apparatus	1,102	6,716	11,278	15,934	18,659	20,720	20,820	22,220	23,182
Electron tubes, transistors, semiconductor devices, and parts	224	3,592	5,388	8,228	6,227	6,540	8,218	11,539	13,172
Transport equipment	5,798	28,260	39,156	50,802	61,965	74,013	79,376	79,772	79,003
Automobiles and parts	5,068	24,015	34,870	45,284	45,476	66,201	70,680	71,266	70,309
Automobiles, new	3,722	16,776	22,934	29,208	36,475	45,302	47,858	47,005	44,703
Motorcycles	307	1,149	659	731	954	736	437	499	531
Aircraft and parts	274	1,885	2,051	3,011	3,578	4,494	4,475	5,168	5,824
Other manufactured goods	13,285	55,970	66,539	88,625	94,982	105,559	118,539	131,979	138,630
Leather manufactures and dressed furs	118	393	582	758	406	808	1,031	1,290	924
Rubber tires and tubes	205	1,143	1,406	1,839	1,923	1,986	2,271	2,448	2,726
Wood manufactures (excl. furniture)	409	1,133	1,335	1,546	780	1,777	2,103	2,134	2,034
Paper and manufactures	1,087	3,587	4,216	5,571	5,977	6,360	7,310	8,336	8,549
Newsprint	930	2,685	2,759	3,299	3,633	3,682	4,116	4,462	4,488
Construction materials	106	550	628	940	1,158	1,356	1,503	1,632	1,629
Glass, glassware, and pottery	338	1,228	1,602	1,468	2,195	2,492	2,871	2,974	2,926
Diamonds, excluding industrial	433	2,252	2,275	2,905	3,006	3,459	3,423	4,306	4,358

See footnotes at end of table.

No. 1409. General Imports, by Selected Commodity Groups: 1970 to 1989—Continued

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

COMMODITY	1970	1980	1983	1984	1985	1986	1987	1988	1989
Other manufactured goods—Con.									
Metals and manufactures	4,508	18,717	18,717	24,964	23,834	23,616	25,144	30,748	30,461
Pig iron and ferroalloys	78	678	453	664	468	621	628	1,141	1,198
Iron and steelmill products	1,952	6,692	6,338	10,208	10,266	8,168	8,493	10,274	9,401
Bars, rods, shapes, and pilings	486	1,420	1,307	1,865	1,775	1,603	1,726	2,032	1,837
Plates and sheets	906	2,505	2,993	4,566	4,237	3,838	4,064	4,467	4,347
Steel wire	119	293	287	226	438	208	207	235	(NA)
Tubes, pipes, and fittings	349	2,193	1,366	2,633	2,445	1,592	1,502	2,347	2,012
Nonferrous base metals	1,502	5,182	4,785	6,252	7,008	5,753	6,377	8,552	8,949
Copper	532	1,470	1,341	1,512	1,146	1,377	1,551	2,098	2,196
Nickel	317	885	524	600	604	515	573	1,220	1,543
Aluminum	238	974	1,629	2,450	1,995	2,744	2,860	3,442	3,181
Lead	74	91	65	90	57	61	137	114	91
Tin	190	776	453	513	426	243	270	316	338
Silver, refined bullion	53	1,329	1,926	848	869	688	460	476	586
Platinum group metals	98	1,107	707	1,062	962	1,251	1,148	1,264	6,351
Metal manufactures, n.e.c	825	3,732	4,504	5,923	6,560	7,129	8,035	9,031	8,973
Textiles, other than clothing	1,135	2,499	3,225	4,531	4,900	5,768	6,511	6,373	6,094
Textile yarn and thread	223	194	355	523	534	689	735	708	742
Cotton fabrics, woven	173	433	560	878	837	1,006	1,293	984	1,063
Textile fabrics, wgvn, except cotton	499	408	586	702	100	948	889	948	989
Twine and cordage	35	114	87	85	79	66	72	82	139
Floor coverings	53	283	332	491	549	608	683	604	618
Clothing	1,269	6,430	9,583	13,497	14,949	17,288	20,490	21,518	24,559
Footwear	629	2,809	4,010	5,034	5,695	6,473	7,236	8,041	8,393
Professional, scientific, photographic, and controlling instruments	356	2,654	3,528	4,696	3,211	1,598	4,509	5,174	5,846
Clocks and watches	184	1,127	1,058	1,254	1,367	1,536	1,702	1,909	1,915
Musical instruments, sound recorders and reproducers, parts	505	487	927	1,288	1,794	2,396	2,527	2,548	2,442
Printed matter	160	613	739	980	1,116	1,376	1,494	1,581	1,619
Articles of plastic and rubber, n.e.c	236	916	1,352	1,861	1,631	2,833	3,494	4,072	3,007
Toys, games, and sporting goods	427	1,836	2,412	3,189	4,075	4,520	5,772	6,492	5,046
Artworks and antiques	162	2,672	2,017	2,467	2,188	2,091	1,952	2,044	2,171
Other transactions	1,274	7,225	7,742	9,828	11,141	14,914	12,374	12,590	14,454

NA Not available. 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 Materials of lime, cement, and clay.

³ Excludes narrow or special fabrics. ⁴ 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." ⁵ Beginning 1980, sound recorders included in "Machinery."

Source: U.S. Bureau of the Census, 1970-1988, *U.S. General Imports and Imports for Consumption, Schedule A-Commodity by Country*, FT 135, monthly; beginning 1989, *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption*, series FT 925, monthly.

No. 1410. Imports for Consumption—Values and Duties: 1970 to 1990

[Imports are on customs value basis. 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 (mil. dol.)	RATIO OF DUTIES TO VALUES		Duties per capita (dollar)
	Total (mil. dol.)	Free (mil. dol.)	Dutiable (mil. dol.)	Percent free		Total imports (percent)	Dutiable imports (percent)	
1970	39,756	13,870	25,886	35	2,584	6.5	10.0	12.60
1975	96,516	31,030	65,486	32	3,780	3.9	5.8	17.50
1976	121,121	37,190	83,931	31	4,675	3.9	5.6	21.44
1977	147,075	43,633	103,442	30	5,485	3.7	5.3	24.91
1978	172,912	51,827	121,125	30	7,162	4.1	5.9	32.17
1979	205,850	103,278	102,645	50	7,202	3.5	7.0	31.99
1980	244,007	106,992	132,951	45	7,535	3.1	5.7	33.09
1981	259,012	76,338	182,674	29	8,893	3.4	4.9	38.67
1982	242,340	75,856	166,484	31	8,688	3.6	5.2	37.40
1983	256,679	83,397	173,283	32	9,430	3.7	5.4	40.21
1984	322,989	102,977	220,012	32	12,042	3.7	5.5	50.90
1985	343,553	106,035	237,518	31	13,067	3.8	5.5	54.73
1986	368,657	121,742	246,915	33	13,312	3.6	5.4	55.10
1987	402,066	132,152	269,914	33	13,923	3.5	5.2	57.08
1988	437,140	151,693	285,447	35	15,054	3.4	5.3	61.12
1989	468,012	156,365	311,647	33	16,096	3.4	5.2	64.70
1990	490,554	(NA)	(NA)	(NA)	16,300	3.3	(NA)	65.66

NA Not available. 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, 1970-1988, *Highlights of U.S. Export and Import Trade*, series FT 990, monthly; beginning 1989, *U.S. Merchandise Trade: Selected Highlights*, series FT 920, and unpublished data.

No. 1411. Domestic Exports and Imports for Consumption of Merchandise, by Selected SIC-Based Product Category: 1980 to 1990

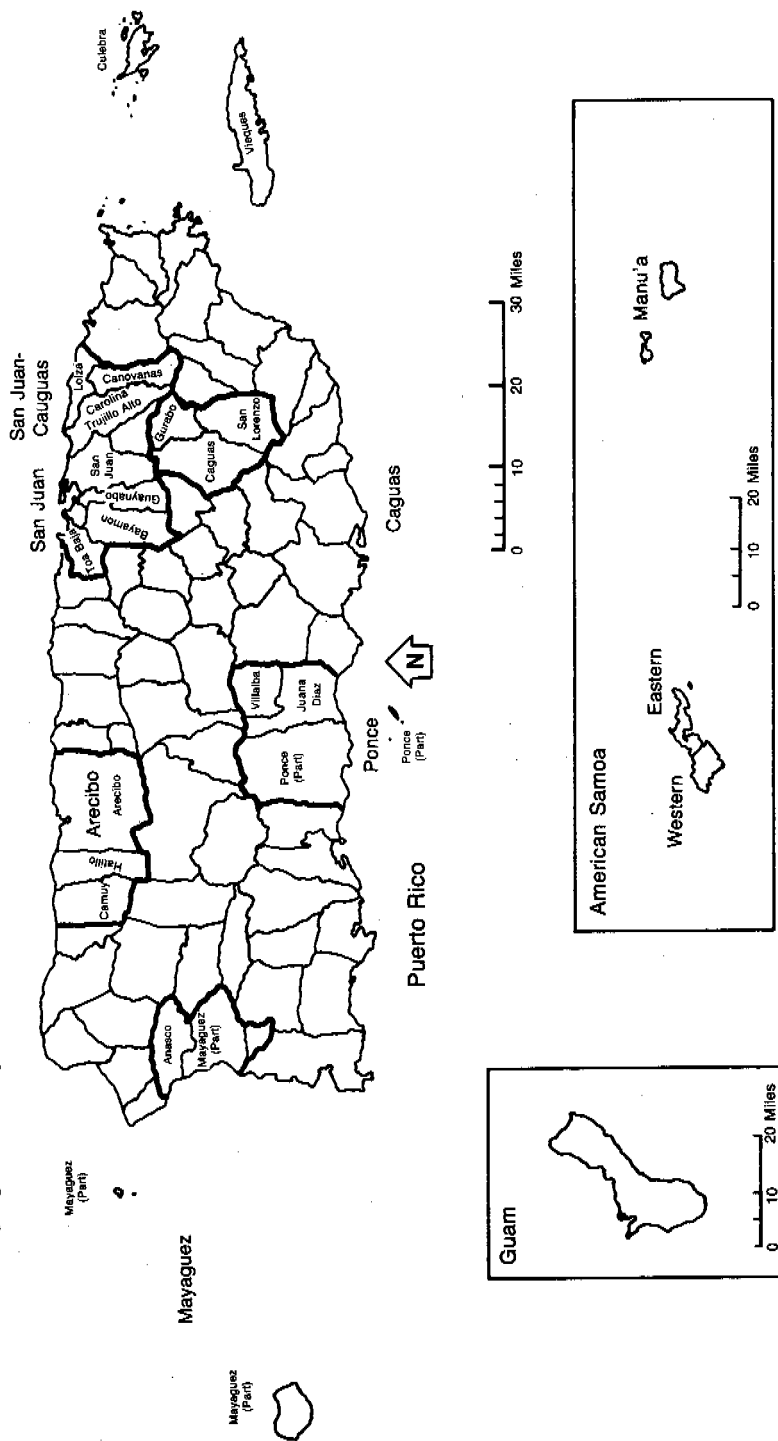
[In millions of dollars. Includes nonmonetary gold; beginning 1980, includes trade of U.S. Virgin Islands with foreign countries. For 1980 and 1981, imports are free alongside ship (f.a.s.) value at foreign port exportation; thereafter, customs value basis]

SIC ¹ code	SIC-BASED PRODUCT CATEGORY	1980	1984	1985	1986	1987	1988	1989	1990
(X)	Domestic exports, total	216,592	212,057	206,925	206,376	243,859	308,014	347,527	375,606
(X)	Agricultural, forestry and fishery products	30,091	27,557	20,073	15,967	17,717	23,385	25,860	26,264
01	Agricultural products	29,238	26,770	19,199	15,088	16,678	22,043	24,163	22,597
02	Livestock and livestock products	715	646	735	740	855	1,108	829	829
08	Forestry products	110	115	122	120	155	185	305	320
09	Fish, fresh or chilled; and other marine products ³	28	26	18	20	30	50	563	2,518
(X)	Mineral commodities	8,338	6,417	6,394	5,599	5,058	6,050	6,630	7,335
10	Metallic ores and concentrates	1,320	644	686	590	597	903	1,247	1,137
11,12	Bituminous, lignite and anthracite coal	4,627	4,133	4,465	3,930	3,368	4,013	4,287	4,513
13	Crude petroleum and natural gas	976	448	476	306	271	237	89	638
14	Nonmetallic minerals, fuels	1,415	1,193	767	774	822	897	1,006	1,047
(X)	Manufactured commodities	171,355	173,284	175,750	179,401	208,438	261,836	308,133	331,263
20	Food and kindred products	12,124	11,067	10,055	11,250	12,320	15,747	16,582	16,121
21	Tobacco manufactures	1,091	1,192	1,268	1,522	2,310	2,862	3,632	5,040
22	Textile mill products	2,488	1,541	1,462	1,853	1,891	2,339	2,810	3,635
23	Apparel and related products	1,620	1,065	1,019	1,213	1,518	1,982	2,383	2,872
24	Lumber and related products	3,695	2,699	2,668	3,018	3,961	5,352	6,071	6,523
25	Furniture and fixtures	476	546	483	466	550	727	919	1,589
26	Paper and allied products	4,670	4,322	3,886	4,479	5,676	7,040	8,336	8,631
27	Printing and publishing	1,115	1,378	1,250	1,298	1,525	1,882	2,590	3,150
28	Chemicals and allied products	21,095	22,249	21,797	22,562	26,090	32,549	36,088	37,806
29	Petroleum and coal products	2,849	5,113	5,433	4,228	4,479	3,642	5,176	6,794
30	Rubber and misc. plastics products	2,675	2,936	2,765	2,941	3,710	4,986	4,723	6,374
31	Leather and leather products	510	526	478	521	688	892	1,124	1,389
32	Stone, clay, and glass products	1,922	1,904	1,792	1,723	2,045	3,418	2,522	3,296
33	Primary metal products	11,491	5,360	4,747	4,803	5,806	11,362	11,131	13,116
34	Fabricated metal products	6,927	6,530	5,765	5,542	6,185	7,258	9,131	11,099
35	Machinery, except electrical	38,084	37,268	37,478	36,358	41,054	52,052	56,776	61,229
36	Electric and electronic machinery	16,354	20,164	18,908	20,415	24,359	27,571	32,009	39,807
37	Transportation equipment	29,206	32,173	38,024	37,877	42,371	50,759	56,664	68,152
38	Instruments and related products	7,690	8,684	8,623	9,237	10,191	16,078	18,039	19,524
39	Misc. manufactured commodities	2,888	1,895	1,773	2,080	2,719	3,662	4,567	4,296
(X)	Imports for consumption, total ²	239,588	322,989	343,553	368,657	402,066	437,140	468,012	490,554
(X)	Agricultural, forestry and fishery products	10,536	12,301	12,805	14,753	14,401	14,149	13,253	12,749
01	Agricultural products	6,531	6,936	7,483	8,792	7,444	6,969	6,111	5,925
02	Livestock and livestock products	684	977	933	993	999	1,238	1,290	1,453
08	Forestry products	984	978	830	786	933	1,235	1,235	1,015
09	Fish, fresh or chilled; and other marine products ³	2,337	3,411	3,559	4,183	5,026	4,708	4,617	4,357
(X)	Mineral commodities	70,717	43,500	39,011	27,780	33,615	30,971	41,087	51,392
10	Metallic ores and concentrates	2,312	1,636	1,265	1,318	1,130	1,278	1,425	1,500
11,12	Bituminous, lignite and anthracite coal	30	44	70	80	56	64	97	93
13	Crude petroleum and natural gas	65,857	39,962	35,872	24,463	30,843	27,514	38,664	48,918
14	Nonmetallic minerals, exc. fuels	2,517	1,859	1,804	1,919	1,586	2,116	901	881
(X)	Manufactured commodities	150,643	257,643	280,089	314,139	341,142	377,893	397,254	407,043
20	Food and kindred products	10,381	12,010	12,521	12,821	13,180	13,710	15,121	16,564
21	Tobacco manufactures	93	88	78	82	91	86	88	94
22	Textile mill products	2,023	3,469	3,616	4,136	4,697	4,458	7,294	6,807
23	Apparel and related products	6,543	13,916	15,710	18,171	21,503	22,170	22,843	24,644
24	Lumber and related products	3,648	4,838	5,109	5,374	5,959	5,907	5,873	5,446
25	Furniture and fixtures	1,083	2,458	3,220	3,997	4,575	4,721	5,148	5,235
26	Paper and allied products	5,322	7,431	7,493	7,983	9,461	11,042	11,874	11,669
27	Printing and publishing	628	1,070	1,200	1,488	1,583	1,687	1,807	1,849
28	Chemicals and allied products	7,003	11,997	12,790	13,281	14,400	20,504	20,431	21,611
29	Petroleum and coal products	13,420	21,202	18,282	12,836	13,123	10,418	11,845	14,472
30	Rubber and misc. plastics products	2,743	4,365	4,721	5,381	6,331	7,756	9,465	9,731
31	Leather and leather products	3,379	6,788	7,724	8,648	9,930	10,952	9,837	10,944
32	Stone, clay, and glass products	2,262	3,791	4,296	4,910	5,560	5,973	5,775	5,845
33	Primary metal products	18,027	22,117	20,439	22,580	19,254	24,008	25,563	23,232
34	Fabricated metal products	4,396	6,804	7,754	8,476	9,562	10,553	11,451	11,608
35	Machinery, except electrical	14,222	27,621	31,310	38,234	44,808	53,175	54,176	55,012
36	Electric and electronic machinery	15,451	35,326	37,951	42,734	46,566	52,135	55,413	55,744
37	Transportation equipment	29,895	54,297	65,944	79,887	84,347	86,398	88,096	89,599
38	Instruments and related products	4,692	7,729	8,805	10,646	11,547	15,516	16,344	16,846
39	Misc. manufactured commodities	5,430	9,714	11,130	12,776	14,666	16,724	19,812	20,091

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.

Source: U.S. Bureau of the Census, 1980-1988, *Highlights of U.S. Export and Import Trade*, series FT 990; beginning 1989, *U.S. Merchandise Trade*, series FT 900.

Figure 30.1
Selected U.S. Outlying Areas Map.





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 348.

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 1969, 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 1949, 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. 1412. 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	3,208	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 1049.

No. 1413. 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 1414 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	Net change		Births	Deaths	Net migration
	Number	Percent				Number	Percent			
Puerto Rico	484.5	17.9	744.0	193.7	-65.9	95.0	3.0	546	185	-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
Northern Mariana Islands ² ..	4.6	37.5	5.3	0.9	(³)	4.4	26.1	5.9	0.9	(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 1412. 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. 1414. 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	18.5	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. 1; *1970 Vol. 1, Characteristics of the Population*, parts 53-58; and *1980, Vol. 1, Chapter B, Characteristics of the Population*, parts 53-57a.

No. 1415. 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. 1416. Land Area and Population Characteristics, by Area: 1980

(As of April 1. See also table 348, 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	1,320,193	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	5.0	4.1	3.4	7.1	5.4
Families	753,936	21,780	20,855	4,287	2,652
Husband-wife families	580,326	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. 1417. Vital Statistics—Specified Areas: 1960 to 1988

(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	*20,212	*6.6	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
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	32,339	9.9	13,563	4.1
1987	64,331	19.5	23,829	7.2	916	14.2	33,285	10.1	14,165	4.3
1988	63,991	19.4	24,940	7.6	801	12.5	(NA)	(NA)	(NA)	(NA)
Guam:										
1965	2,523	32.8	336	4.4	82	32.5	471	6.2	53	0.7
1970	2,842	28.8	355	5.8	62	21.6	874	9.9	84	1.0
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)
1987	3,330	25.5	472	3.6	25	7.5	(NA)	(NA)	(NA)	(NA)
1988	3,509	26.4	464	3.5	27	7.7	(NA)	(NA)	(NA)	(NA)
Virgin Islands:										
1960	1,180	36.8	332	10.3	42	35.6	359	11.1	135	4.2
1970	2,898	46.8	469	7.9	72	24.6	1,149	18.4	270	4.3
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	1,804	16.5	314	2.9
1987	2,322	21.9	527	5.0	46	19.8	1,902	17.9	258	2.4
1988	2,216	21.5	501	4.9	29	13.1	(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. 1418. 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	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. 1419. Public Elementary and Secondary Schools, by Areas: 1988

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

ITEM	Puerto Rico	Guam	Virgin Islands	American Samoa	ITEM	Puerto Rico	Guam	Virgin Islands	American Samoa
Enrollment, fall	672,837	25,936	24,020	11,248	Staff, fall 1986	62,322	2,778	3,322	1,255
Elementary					School district staff	1,961	8	405	92
(kindergarten-grade 8)	498,853	18,713	17,131	8,313	School staff	39,550	1,725	2,267	834
Secondary (grades 9-12 and post graduates)	173,984	7,223	6,889	2,935	Teachers	33,357	1,403	1,597	674
					Other support services staff	20,811	1,045	650	329
Average daily attendance	621,731	23,172	22,103	10,579	Current expenditures ¹ (\$1,000)	935,392	76,359	89,217	20,186
Percent of enrollment	92.4	89.3	92.0	94.1	Per pupil ² (dol.)	1,504	3,295	4,036	1,908

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. 1420. Federal Direct Payments for Individuals, by Selected Program and Outlying Area: 1988 and 1989

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

PROGRAM PAYMENTS	1988				1989			
	Puerto Rico	Guam	Virgin Islands	American Samoa	Puerto Rico	Guam	Virgin Islands	American Samoa
Total	2,906,940	71,083	78,683	11,604	3,196,033	79,742	84,759	13,264
Pell Grants	214,210	1,200	349	94	251,106	1,371	506	220
Medicare: Hospital Insurance	142,476	1,733	3,793	-	156,718	1,906	4,172	-
Supplemental medical insurance	159,394	1,694	2,831	-	175,104	1,861	3,110	-
Social Security: Disability insurance	520,649	1,674	5,014	1,818	537,588	1,920	5,467	2,032
Retirement insurance	938,310	8,606	29,061	3,424	1,001,509	9,697	30,654	3,919
Survivors insurance	393,489	5,256	9,563	3,052	426,667	5,873	10,339	3,437
Veterans: Pension and disability	257,415	3,043	1,373	1,145	269,523	3,303	1,960	1,223
Education assistance	4,342	388	30	152	3,247	306	38	88
Federal retirement and disability	144,967	26,951	8,018	1,819	156,824	30,501	9,632	1,535
Food Stamps	876,959	15,288	14,915	-	900,688	16,640	12,744	-
Other	131,688	5,250	3,736	100	217,747	6,364	6,137	810

- 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. 1421. Puerto Rico—Summary: 1970 to 1989

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
POPULATION										
Total ¹	1,000	2,722	3,184	3,264	3,267	3,276	3,279	3,285	3,293	3,309
Persons per family	Number	4.6	4.3	4.3	4.1	4.1	4.1	4.1	4.0	4.0
EDUCATION ²										
Enrollment, total.	1,000	925.8	1,092.1	1,133.3	1,102.9	1,126.1	1,113.4	1,109.0	(NA)	(NA)
Public day school	1,000	672.3	712.9	709.9	692.9	686.9	679.5	672.0	661.6	651.2
Other public	1,000	103.9	149.5	180.5	152.0	152.0	153.7	152.1	156.3	(NA)
Private schools	1,000	92.3	94.5	102.7	102.3	130.4	121.6	129.2	(NA)	(NA)
College and university	1,000	57.3	135.2	160.2	155.7	156.8	158.6	155.7	156.9	(NA)
Expenses	Mil. dol	288.8	825.0	1,043.0	1,117.0	1,171.8	1,212.9	1,282.3	1,401.6	1,498.9
As percent of GNP	Percent	6.2	7.5	8.0	7.9	7.8	7.6	7.4	7.5	7.5
Public	Mil. dol	254.6	612.2	737.9	782.2	810.2	814.4	847.9	932.7	1,002.6
Private	Mil. dol	34.2	212.8	305.1	334.8	361.6	398.5	434.4	468.9	496.3
LABOR FORCE ³										
Total ⁴	1,000	765	907	919	952	964	977	1,013	1,039	1,060
Employed ⁵	1,000	686	753	703	743	758	777	834	873	907
Agriculture ⁶	1,000	68	38	36	40	38	40	35	31	35
Manufacturing	1,000	132	143	131	142	138	140	152	157	158
Trade	1,000	128	138	136	145	147	149	159	173	178
Government	1,000	106	184	170	177	180	180	197	201	209
Unemployed.	1,000	79	154	216	209	206	200	179	166	153
Unemployment rate ⁷	Rate	10	17	23	22	21	20	18	16	14
Compensation of employees . . .	Mil. dol	2,800.2	7,200.0	8,177.9	8,891.3	9,441.8	9,929.0	10,680.5	11,739.4	12,694.9
Avg. compensation	Dollar	4,082	9,563	11,633	11,967	12,456	12,779	12,806	13,447	13,997
Salary and wages	Mil. dol	2,554.5	6,290.2	7,040.5	7,665.5	8,136.5	8,495.7	9,182.1	10,059.3	10,869.4
INCOME ⁸										
Personal income:										
Current dollars	Mil. dol	3,753	11,002	12,800	13,585	14,593	15,331	16,334	17,617	18,705
Constant (1954) dollars	Mil. dol	2,654	3,985	3,882	4,081	4,276	4,430	4,676	4,906	5,020
Disposable personal income:										
Current dollars	Mil. dol	3,565	10,403	12,041	12,824	13,765	14,274	15,289	16,390	17,425
Constant (1954) dollars	Mil. dol	2,521	3,768	3,652	3,852	4,033	4,124	4,377	4,564	4,678
Average family income:										
Current dollars	Dollar	6,366	14,858	16,470	17,048	18,263	19,169	20,386	21,399	22,611
Constant (1954) dollars	Dollar	4,503	5,381	4,995	5,121	5,351	5,539	5,836	6,108	6,220
BANKING ⁹										
Assets	Mil. dol	3,322	10,223	18,435	19,968	21,209	22,534	26,101	24,660	27,179
Debts	Mil. dol	2,548	13,399	24,098	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Personal checking	Mil. dol	1,999	11,206	21,917	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Personal savings	Mil. dol	94	423	759	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Government savings	Mil. dol	454	1,770	1,422	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
TOURISM ⁸										
Number of visitors	1,000	1,088.4	1,638.8	1,594.9	1,582.7	1,642.3	1,695.6	2,034.9	2,280.5	2,449.8
Visitor expenditures	Mil. dol	235.4	618.7	715.9	712.4	757.7	792.6	955.4	1,112.3	1,234.6
Average per visitor	Dollar	216	378	449	450	461	467	470	488	504
Net income from tourism	Mil. dol	89.8	202.2	201.4	205.1	223.1	239.3	285.8	329.2	381.1

NA Not available. ¹ 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 Annual average of monthly figures. For fiscal years. ⁴ Beginning 1980, for population 16 years old and over; 1970, for population 14 years and over. ⁵ Includes other employment, not shown separately. ⁶ Includes forestry and fisheries. ⁷ Percent unemployed of the labor force. ⁸ For fiscal years. ⁹ As of June 30.

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

No. 1422. Puerto Rico—Employment Status, 1970 to 1989, and by Sex, 1989

[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	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989 ¹		
										Total	Male	Female
In the labor force	777	916	912	942	958	969	998	1,019	1,058	1,063	664	398
Employed	893	758	704	722	759	758	809	848	900	907	551	356
Working	657	712	664	683	719	710	768	804	848	858	526	333
35 hours or more	569	535	470	498	521	508	579	570	614	651	413	238
Less than 35 hours	88	177	194	185	198	203	189	235	234	207	112	95
Not working.	35	48	40	39	40	47	41	44	52	49	26	23
Unemployed	84	156	208	220	198	211	188	171	158	155	112	43
Percent	10.7	17.0	22.8	23.4	20.7	21.8	18.9	16.8	15.0	14.6	16.9	10.8
Not in labor force	966	1,200	1,303	1,309	1,315	1,324	1,305	1,291	1,263	1,277	417	860

¹ Preliminary.

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

No. 1423. Puerto Rico—Gross Product, by Major Industrial Sector: 1971 to 1989
 (In millions of dollars. For fiscal years ending June 30)

ITEM	1971	1975	1980	1983	1984	1985	1986	1987	1988	1989
Gross product	5,248	7,175	11,065	13,048	14,183	15,002	16,054	17,301	18,681	20,051
Agriculture	177	271	380	391	345	357	373	411	400	429
Manufacturing	1,334	2,371	5,306	6,406	7,371	7,909	8,549	9,483	10,475	11,032
Contract construction and mining	485	462	369	301	326	334	331	418	511	602
Transportation	482	767	1,279	1,600	1,714	1,709	1,905	2,044	2,194	2,271
Trade	987	1,377	2,273	2,570	2,912	3,159	3,360	3,745	4,038	4,354
Finance, insurance, real estate	674	975	1,486	2,230	2,421	2,547	2,867	3,183	3,485	3,607
Services	552	805	1,279	1,576	1,714	1,837	1,993	2,184	2,458	2,696
Government	736	1,334	1,897	2,040	2,173	2,346	2,445	2,679	2,918	3,115
Commonwealth	656	1,145	1,574	1,734	1,849	1,996	2,078	2,292	2,506	2,699
Municipalities	80	189	323	306	324	350	367	387	412	416
Rest of the world	-398	-1,024	-3,372	-4,228	-4,980	-5,287	-5,955	-6,725	-7,704	-8,110
Statistical discrepancy	222	-163	166	162	187	91	187	-122	-94	55

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

Source: Puerto Rico Planning Board, San Juan, PR, *Economic Report of the Governor, 1988-89*.

No. 1424. Puerto Rico—Economic Summary, by Industry: 1988

[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]

1987 SIC code ¹	INDUSTRY	Total establishments	Employment-size class					Em- ploy- ees ²	Annual payroll (Mil. dol.)
			1 to 4	5 to 9	10 to 19	20 to 49	50 or more		
A	Agricultural services, forestry, and fishing	68	40	18	6	4	-	370	2.9
B	Mining	33	7	8	5	12	1	626	7.9
14	Nonmetallic minerals, except fuels	26	3	8	5	10	-	441	5.2
C	Construction	926	335	148	136	142	165	31,586	297.5
15	General contractors and operative builders	393	110	66	50	68	99	19,546	171.7
17	Special trade contractors	454	210	70	70	58	46	8,722	84.3
D	Manufacturing	1,807	417	219	274	323	574	145,714	2,039.5
20	Food and kindred products	255	70	45	46	36	58	19,404	280.4
23	Apparel and other textile products	256	45	13	24	45	129	32,514	256.2
25	Furniture and fixtures	116	37	13	26	33	7	2,406	20.4
27	Printing and publishing	149	65	31	26	18	9	3,733	49.5
28	Chemicals and allied products	173	23	15	26	25	84	21,467	482.0
32	Stone, clay, and glass products	126	35	24	24	33	10	3,863	57.3
34	Fabricated metal products	117	25	23	19	24	26	3,852	53.2
36	Electronic and other electronic equipment	115	12	5	5	17	76	18,541	264.2
E	Transportation and public utilities	741	369	152	92	72	56	22,950	401.6
42	Trucking and warehousing	251	140	53	28	24	6	2,250	22.7
47	Transportation services	219	150	38	13	11	7	1,734	23.5
F	Wholesale trade	1,916	794	338	362	275	147	32,356	522.1
50	Durable goods	960	384	185	203	128	60	14,302	231.7
51	Non durable goods	941	408	151	156	142	84	17,470	278.1
G	Retail trade	9,301	5,389	1,822	1,062	717	311	94,492	817.4
54	Food stores	1,288	775	192	119	97	105	18,938	139.2
55	Automotive dealers and service stations	1,487	977	309	128	56	17	8,742	92.3
56	Apparel and accessory stores	1,194	552	293	232	96	21	11,453	95.6
58	Eating and drinking places	1,634	898	263	206	213	54	17,845	123.3
H	Finance, insurance, and real estate	1,621	767	279	308	183	84	33,175	529.5
60	Depository institutions	249	26	28	126	51	18	11,320	178.2
61	Nondepository institutions	409	125	101	98	63	22	8,806	124.1
64	Insurance agents, brokers, and service	206	108	38	28	15	17	3,576	57.7
65	Real estate	637	471	92	43	23	8	4,098	48.5
I	Services	7,129	4,773	937	618	437	364	103,031	1,061.6
72	Personal services	524	364	88	50	16	6	2,793	23.3
73	Business services	668	337	102	76	76	97	21,514	204.6
75	Auto repair, services, and parking	523	369	87	37	25	5	2,957	26.1
80	Health services	2,424	1954	267	92	52	59	23,063	234.8
81	Legal services	729	612	41	57	12	7	2,903	44.5
87	Engineering and management services	507	294	87	65	37	24	5,318	74.4

- Represents or rounds to zero. ¹ 1987 Standard Industrial Classification (SIC) code; see text, section 13. ² For the pay period including March 12. ³ Includes other establishments, not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns, 1988*.

No. 1425. Puerto Rico—Wholesale and Retail Trade Summary: 1987

(For establishments with payroll)

1987 SIC ¹ code	TYPE OF OPERATION AND KIND OF BUSINESS	Establish- ments	Sales (\$1,000)	Annual payroll (\$1,000)	Paid employees ²
(X)	Wholesale trade	2,596	9,591,048	546,807	37,655
50	Durable goods	1,301	3,582,760	246,804	16,178
501	Motor vehicles, parts, and supplies	157	771,669	31,765	2,239
502	Furniture and home furnishings	60	153,960	9,167	729
503	Lumber and construction materials	122	280,295	14,650	1,326
504	Professional and commercial equip.	257	658,879	68,126	3,748
505	Metals and minerals, except petroleum	30	139,550	3,280	268
506	Electrical goods	168	453,224	37,906	1,843
507	Hardware, plumbing, and heating equip.	129	262,468	18,357	1,409
508	Machinery, equipment, and supplies	273	685,970	52,868	3,641
509	Miscellaneous durable goods	105	176,745	10,685	975
51	Nondurable goods	1,295	6,008,288	300,003	21,477
511	Paper and paper products	58	218,254	14,818	769
512	Drugs, proprietaries, and sundries	122	821,309	75,297	3,648
513	Apparel, piece goods, and notions	168	216,877	15,567	1,408
514	Groceries and related products	410	2,286,339	93,987	8,308
515	Farm-product raw materials	17	52,271	3,375	215
516	Chemicals and allied products	98	171,224	14,082	950
517	Petroleum and petroleum products	95	855,161	18,129	907
518	Beer, wine, and distilled beverages	36	615,707	24,036	1,292
519	Miscellaneous nondurable goods	291	771,146	40,712	3,982
(X)	Retail trade	11,451	8,143,608	704,083	88,530
52	Building materials and garden supplies	766	507,780	43,890	4,866
525	Hardware stores	541	309,234	27,737	3,139
53	General merchandise stores	342	878,167	100,920	11,222
54	Food stores	1,696	1,965,601	123,911	17,265
541	Grocery stores	1,249	1,843,471	11,436	15,114
55 exc.	Automotive dealers, exc. gasoline service stations	867	1,239,237	65,932	6,244
553	Auto and home supply stores	551	249,557	24,729	2,915
554	Gasoline service stations	984	559,198	22,910	3,244
56	Apparel and accessory stores	1,704	817,040	96,017	13,166
57	Furniture and home furnishings stores	802	445,021	39,718	4,470
571	Furniture and home furnishings stores	598	341,317	31,256	3,564
572	Household and appliance stores	80	35,878	3,337	385
573	Radio, television, and computer stores	124	67,826	5,125	521
58	Eating and drinking places	2,007	795,052	106,480	15,509
5812	Eating places	1,907	774,778	104,194	15,146
5813	Drinking places	100	20,274	2,286	363
591	Drug stores and proprietary stores	711	389,332	40,377	4,641
59 exc.	Miscellaneous retail	1,572	547,180	63,928	7,903

X Not applicable. ¹ 1987 Standard Industrial Classification Code (SIC); see text, section 13. ² For the week including March 12.

Source: U.S. Bureau of the Census, 1987 *Economic Censuses of Outlying Areas, Puerto Rico*, series OA87-E-1.

No. 1426. Puerto Rico—Service Industries Summary: 1987

(For establishments with payroll)

1987 SIC ¹ code	KIND OF BUSINESS	Establish- ments	Receipts (\$1,000)	Annual pay- roll (\$1,000)	Paid employees ²
(X)	Service industries	4,774	1,939,234	545,481	50,757
472	Passenger transportation arrangement	210	59,511	8,265	715
4724	Travel agencies	200	53,966	7,154	815
70 exc. 702, 704	Hotels and other lodging places	199	327,491	96,150	7,660
701	Hotel and motels	135	327,200	96,090	7,646
72	Personal services ³	733	108,195	28,422	3,665
721	Laundry, cleaning, and garment services	197	33,294	10,828	2,483
723	Beauty shops	287	26,752	8,338	1,138
724	Barber shops	30	1,372	512	95
73	Business services	874	624,219	218,873	24,788
731	Advertising	112	98,851	23,705	1,425
732	Credit reporting and collection	36	23,848	6,215	504
733	Mailing, reproduction, stenographic	41	14,225	2,392	191
734	Services to buildings	127	57,717	24,535	3,456
735	Miscellaneous equipment rental and leasin.	143	86,431	18,784	1,342
736	Personnel supply services	67	88,570	49,909	5,523
737	Computer and data processing services	78	27,166	9,684	679
738	Miscellaneous business services	270	227,411	83,649	11,668
75	Auto repair, services, and parking	665	152,264	21,212	2,654
753	Automotive repair shops	542	71,637	13,125	1,689
76	Miscellaneous repair shops	279	88,620	15,914	1,558
78	Motion pictures	97	41,603	6,074	563
784	Video tape rental	58	5,005	1,027	143
79	Amusement and recreation services	307	174,261	42,892	1,694
8072	Dental laboratories	23	3,299	1,011	117
81	Legal services	948	142,030	41,826	2,475
87 exc.	Engineering and management services	499	217,741	64,842	4,868
871	Engineering and architectural services	295	107,584	28,559	2,076

X Not applicable. ¹ 1987 Standard Industrial Classification Code (SIC); see text, section 13. ² For the week including March 12. ³ Includes other industries, not shown separately.

Source: U.S. Bureau of the Census, 1987 *Economic Censuses of Outlying Areas, Puerto Rico*, series OA87-E-1.

No. 1427. Puerto Rico—Manufactures, by Industry: 1982 and 1987

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

INDUSTRY ¹	1982			1987						
	Estab- lish- ments	All em- ploy- ees ²	Value added by manu- facture ³	Estab- lish- ments	All employees		Production workers ⁴		Value added by manu- facture ³	Value of ship- ments ⁵
					Num- ber ²	Payroll	Num- ber ²	Wages		
All Industries	2,285	143,218	8,605.6	2,328	149,968	1,945.7	122,471	1,368.4	13,708.8	23,130.3
Food and kindred products	333	18,621	965.5	461	23,010	297.8	18,911	213.5	1,938.7	3,973.4
Tobacco manufacturers	14	(D)	(D)	12	(D)	(D)	(D)	(D)	(D)	(D)
Textile mill products	29	2,640	66.5	26	3,770	36.6	3,563	31.2	86.3	176.3
Apparel and other textile products	341	31,764	510.1	274	26,613	214.8	23,800	182.9	691.1	1,213.0
Lumber and wood products	82	603	9.0	127	1,981	16.9	1,631	12.2	40.0	111.3
Furniture and fixtures	122	2,195	49.8	168	2,240	19.4	1,803	16.0	85.6	157.4
Paper and allied products	41	1,469	46.5	45	1,969	26.5	1,666	20.1	90.3	230.0
Printing and publishing	154	2,981	109.0	175	5,028	63.6	3,524	40.7	267.6	416.9
Chemicals and allied products	183	17,225	3,713.9	179	21,902	415.1	15,473	255.8	5,900.4	7,504.8
Petroleum and coal products	16	(D)	(D)	23	1,450	41.0	910	18.9	245.0	1,492.6
Rubber and misc. plastic products	83	4,496	157.7	80	5,966	77.1	5,100	54.3	326.0	555.9
Leather and leather products	47	6,019	108.3	39	6,476	64.3	5,769	55.9	207.0	480.3
Stone, clay, and glass products	171	4,390	133.5	168	4,155	60.0	3,296	42.6	196.3	393.3
Primary metal industries	34	683	14.8	25	760	9.9	642	7.4	67.7	166.4
Fabricated metal products	162	3,553	115.7	179	4,626	58.4	3,738	42.4	182.0	429.8
Machinery, exc. electrical	88	6,722	542.2	62	9,294	125.8	7,392	81.6	765.7	1,515.5
Electric and electronic equipment	181	21,682	1,139.6	131	18,422	252.1	15,702	185.3	1,764.7	2,903.2
Transportation equipment	28	909	32.1	23	(D)	(D)	(D)	(D)	(D)	(D)
Instruments and related products	89	10,865	616.4	66	6,314	84.9	5,016	58.3	597.7	879.8
Misc. manufacturing industries	87	3,373	92.6	65	3,336	41.1	2,720	31.7	99.0	257.2

D Withheld to avoid disclosure. ¹ Based on the 1987 Standard Industrial Classification Code. See text, section 13. ² Average for year. ³ See footnote 7, table 1302. ⁴ For establishments with 10 or more employees. ⁵ Represents net selling value, i.e., 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, 1987 Censuses of Outlying Areas, Manufactures, Puerto Rico, series OA87-E-4.

No. 1428. Puerto Rico—Construction Summary: 1982 and 1987

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

INDUSTRY ¹	1982				1987				
	All employ- ees ²	Total re- ceipts ³	Value add- ed ⁴	Estab- lish- ments	All employ- ees ²	Receipts		Payroll	Value added ⁴
						Total	Con- struc- tion		
Construction ⁵	29,228	1,155	468	1,293	37,959	1,743	1,702	304	932
General building contractors and operative builders	14,620	578	185	552	20,913	972	949	158	486
General contractors, residential buildings	7,265	(D)	(D)	379	10,690	436	433	67	266
Single-family houses	4,973	(S)	(S)	334	7,881	327	324	49	205
Operative builders	2,237	(D)	(D)	21	1,024	109	97	11	35
General contractors, nonresidential buildings	5,118	(D)	76	152	9,199	426	420	80	186
Heavy construction, general contractors	4,970	237	(D)	140	5,978	328	324	53	206
Special trade contractors ⁶	9,534	330	154	544	10,557	413	408	88	225
Plumbing, heating, air-conditioning	1,704	69	28	97	1,421	77	76	15	42
Painting, paper hanging, decorating	589	(D)	(S)	54	819	25	25	5	15
Electrical work	2,443	91	43	147	3,029	134	134	31	73
Concrete work	1,200	34	14	31	1,402	33	33	7	17
Subdividers and developers, n.e.c. ⁶	104	10	(D)	57	511	30	21	5	14

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 Based on the 1987 Standard Industrial Classification Code. 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, 1987 Census of Outlying Areas, Construction, Puerto Rico, series OA87-E-3.

No. 1429. Puerto Rico—Merchandise Imports and Exports: 1970 to 1989

[In millions of dollars]

ITEM	1970	1975	1976	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Imports	2,681	4,885	6,918	7,834	9,018	9,329	8,167	8,708	10,116	10,162	10,321	11,308	13,096	15,010
From U.S.	2,070	3,029	4,391	4,798	5,345	5,801	5,300	5,162	5,738	6,130	6,467	7,307	8,788	10,193
From other	611	1,856	2,527	3,046	3,673	3,528	2,867	3,546	4,378	4,032	3,854	4,001	4,308	4,817
Exports	1,680	3,000	5,123	6,539	6,576	7,047	8,888	8,242	9,426	11,087	11,854	12,508	14,436	17,455
To U.S.	1,563	2,633	4,499	5,720	5,643	6,024	7,624	6,936	8,074	9,873	10,524	11,153	12,756	15,334
To other	117	367	624	819	933	1,023	1,264	1,306	1,352	1,214	1,330	1,355	1,680	2,121

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 895; and, through 1988, Highlights of U.S. Export and Import Trade, FT980, thereafter FT990 supplement.

No. 1430. 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			SALES (\$1,000)	
							Unit	1982	1987	1982	1987
PUERTO RICO											
Farms	21,820	20,245	Tenure of operator:			Dairy products.	(X)	(X)	(X)	152,126	157,864
Percent—			Percent—			Poultry ²	(X)	(X)	(X)	45,945	70,560
Less than 10 cuerdas	45.1	48.7									
10 to 19 cuerdas	20.9	19.5	Full-owners	79.3	77.5	Coffee	1,000 cwt. ³	243.9	246.2	39,302	41,786
20 to 49 cuerdas	18.0	16.7	Part-owners	11.5	13.1	Cattle and calves	(X)	(X)	(X)	28,579	30,206
50 to 99 cuerdas	7.1	6.7	Managers	1.8	2.3	Sugarcane	1,000 tons	1,462	1,170	26,663	26,643
100 to 174 cuerdas	3.9	3.7	Tenants	7.4	7.1	Fruits/nuts	(X)	(X)	(X)	14,060	20,645
175 or more cuerdas	5.0	4.7	Avg. farm size—cuerdos—			Pineapples	1,000 tons	44	69	9,534	15,495
Cuerdas in farms	982,457	886,846	Full-owners	31.1	30.6	Hogs	(X)	(X)	(X)	6,903	9,525
			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:			Chicken eggs	(X)	(X)	(X)	791.9	651.1
Percent—			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	8.0	Hogs and pigs	(X)	(X)	(X)	117.0	106.4
			Others	0.7	0.6						
VIRGIN ISLANDS											
Farms	259	267	Tenure of operator:			Milk	(X)	(X)	(X)	922.8	1,042.7
Percent—			Percent—			Cattle and calves	(X)	(X)	(X)	488.6	613.4
Less than 3 acres	29.0	30.0									
3 to 9 acres	34.7	30.3	Full-owners	79.9	75.3	Hogs and pigs	(X)	(X)	(X)	130.0	125.2
10 to 19 acres	9.3	12.0	Part-owners	10.4	13.5	Tomatoes	Acres	8	16	33.7	113.7
20 or more acres	27.0	27.7	Tenants	9.3	8.6	Lettuce	Acres	2	8	7.8	49.5
Acres in farms	17,778	17,785	Managers	0.4	2.6	Mangoes	1,000	205.0	171.1	(D)	44.0
						Poultry ²	(X)	(X)	(X)	315.6	16.8

D Withheld to avoid disclosure of information pertaining to a specific organization or individual. X Not applicable.

¹ Includes amounts not sold. ² Includes poultry products. Cwt=hundredweight (100 lbs.).Source: U.S. Bureau of the Census, 1987 *Census of Agriculture*, vol. 1, parts 52, 53, and 54.**No. 1431. Guam, Virgin Islands, and Northern Mariana Islands—Economic Summary: 1987**

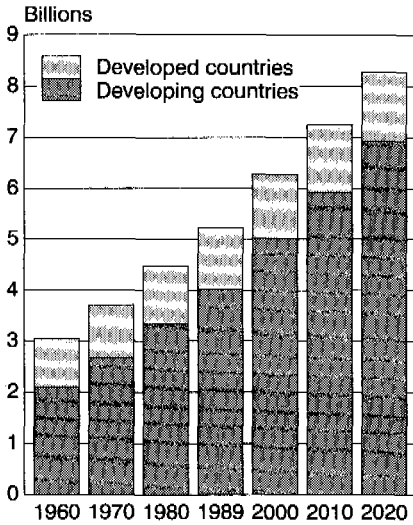
(Sales and payroll in millions of dollars)

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	18,582	20,709	9,090	Annual payroll	19	20	2
Unpaid family workers	371	209	167	Paid employees	1,392	1,322	187
				Unpaid family workers ²	6	2	-
Construction: Establishments	79	92	72	Retail trade:			
Sales	127	124	43	Establishments	804	1,311	383
Annual payroll	35	29	12	Sales	786	703	155
Paid employees	2,705	2,170	2,061	Annual payroll	79	85	14
Unpaid family workers	1	3	6	Paid employees	7,344	8,529	2,304
Manufacturing:				Unpaid family workers ²	273	168	126
Establishments	38	66	39	Services: Establishments	475	1,051	246
Sales	81	(D)	58	Sales	271	296	67
Annual payroll	17	44	14	Annual payroll	71	76	16
Paid employees	1,320	2,102	2,257	Paid employees	5,821	6,586	2,281
Unpaid family workers	1	-	3	Unpaid family workers ²	90	36	32

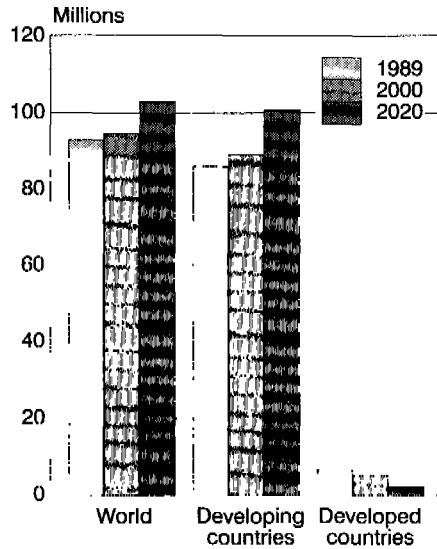
- Represents zero. D Withheld to avoid disclosure of information pertaining to a specific organization or individual. ¹ For pay period including March 12. ² Includes those who worked 15 hours or more during the week including March 12.Source: U.S. Bureau of the Census, 1987 *Economic Census of Outlying Areas*, OAC 87-5 to OAC 87-7.

Figure 31.1
World Population, by Development Category

**Total and Projected Populations:
 1960 to 2020**

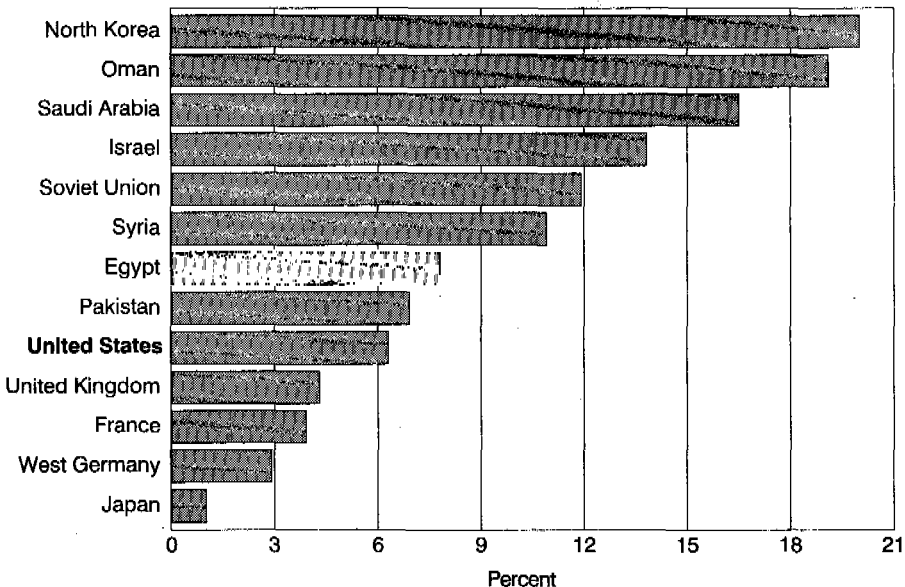


**Number of Persons Added
 Each Year: 1989, 2000, and 2020**

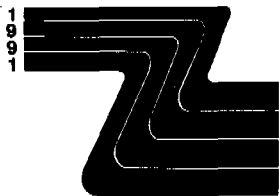


Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1434.

Figure 31.2
**Military Expenditures as a Percentage of Gross
 National Product, by Selected Countries: 1988**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1489.



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 and 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 the *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, the *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 population estimates and projections used in tables 1434-1436 were prepared by the Census Bureau. For each country, the data on population, by age and sex, fertility, mortality, and international 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 1445, it should not be concluded that the United Kingdom's individual standard of living in 1989 was only 68 percent of that of the United States, 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 1450) instead of exchange rates is intended to achieve this objective.

The method used to present the data shown in table 1450 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 utilized 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 utilized the ISIC in publishing and analyzing statistical data. Revisions of the ISIC were issued in 1958, 1968, and 1989.

No. 1432. World Summary: 1970 to 1988

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

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Population	Millions	3,678	4,453	4,528	4,607	4,684	4,760	4,854	4,938	5,024	5,112
Agriculture, forestry, and fishing: ¹											
Barley	Mil. metric tons	126	160	152	164	162	173	177	182	180	166
Coffee	Mil. metric tons	3.9	4.8	6.0	5.1	5.7	5.2	5.8	5.2	6.3	5.8
Corn	Mil. metric tons	278	396	450	450	348	453	484	479	451	401
Cotton (lint)	Mil. metric tons	11.8	13.9	15.3	14.8	14.3	18.2	17.4	15.2	16.5	18.2
Meats	Mil. metric tons	(NA)	134	136	137	142	146	151	156	160	165
Peanuts (groundnuts)	Mil. metric tons	18.5	17.1	20.5	18.1	19.0	20.2	20.0	21.0	18.9	21.3
Potatoes	Mil. metric tons	288	264	289	288	265	292	284	291	284	270
Rice	Mil. metric tons	316	399	412	424	452	470	473	472	466	491
Tobacco	Mil. metric tons	4.7	5.3	6.0	6.9	5.9	6.5	7.0	6.1	6.2	6.8
Wheat	Mil. metric tons	318	446	456	483	494	516	505	536	510	507
Wool, greasy	Mil. metric tons	(NA)	2.8	2.8	2.8	2.9	2.9	3.0	3.0	3.1	3.2
Roundwood	Mil. cubic meters	2,614	2,942	2,945	2,941	3,038	3,126	3,158	3,254	3,352	(NA)
Fish catches	Mil. metric tons	68.0	72.0	74.8	76.6	77.4	83.5	86.0	92.4	92.7	(NA)
Industrial production:											
Wine	Mil. metric tons	(NA)	35.4	31.6	37.3	35.0	32.4	29.3	31.9	31.6	27.3
Sugar	Mil. metric tons	72.9	84.0	92.8	102.2	97.4	99.9	98.8	101.3	101.7	103.7
Wheat flour	Mil. metric tons	121.2	137.2	139.7	139.7	200.0	207.0	211.5	212.9	216.9	(NA)
Coal	Mil. metric tons	2,143	2,728	2,728	2,828	2,831	2,967	3,161	3,249	3,335	3,450
Lignite and brown coal	Mil. metric tons	793	1,005	1,034	1,069	1,130	1,186	1,202	1,222	1,249	1,259
Crude petroleum ²	Bil. bbl.	16.5	21.7	20.3	19.3	19.2	19.7	19.6	20.4	20.6	21.4
Natural gas (dry) ²	Trl. cu. ft.	37.5	53.1	54.6	54.1	54.6	59.7	62.0	63.3	66.2	67.7
Electricity	Bil. kwh.	4,962	8,247	8,384	8,476	8,824	9,310	9,747	10,058	10,589	11,026
Iron ore	Mil. metric tons	421	743	900	816	740	835	858	868	883	890
Pig iron and ferroalloys	Mil. metric tons	440	531	519	472	463	496	507	496	503	504
Tin	1,000 metric tons	184	227	229	214	195	196	196	196	195	197
Crude steel	Mil. metric tons	594	704	695	629	663	710	685	671	682	685
Cement	Mil. metric tons	(NA)	867	868	866	888	889	945	998	1,045	1,058
Non-cellulosic fibers ³	Mil. metric tons	4.9	10.5	10.8	10.1	10.7	11.5	11.7	11.9	11.1	11.6
Sawnwood	Mil. cubic meters	413	438	419	421	441	461	462	478	499	(NA)
Woodpulp	Mil. metric tons	97.2	121.1	120.6	115.3	123.9	130.9	131.2	136.3	133.9	(NA)
Newsprint	Mil. metric tons	21.6	26.1	27.3	25.8	26.0	27.8	28.3	29.3	30.7	(NA)
Merchant vessels, launched	Mil. gross tons	21.7	13.9	17.1	17.3	14.9	17.7	17.3	14.9	8.6	11.8
Motor vehicles	Millions	29.3	38.9	37.5	36.4	39.9	42.0	43.9	43.9	44.6	(NA)
External trade:											
Imports, c.i.f.	Bil. U.S. dollars	329	2,057	2,322	1,905	1,872	1,982	2,027	2,207	2,582	2,941
Exports, f.o.b.	Bil. U.S. dollars	314	1,995	2,215	1,831	1,813	1,909	1,932	2,128	2,498	2,838
Transport:											
Railway freight	Bil. metric ton-km	5,027	6,754	6,810	6,635	6,855	7,138	7,285	(NA)	(NA)	(NA)
Merchant shipping, freight ⁴	Mil. metric tons	(NA)	3,676	3,500	3,290	3,290	3,410	3,362	(NA)	(NA)	(NA)
Civil aviation, kilometers flown ⁵	Millions	4,353	9,362	9,030	9,010	9,320	9,950	10,565	11,455	12,208	(NA)

NA Not available. ¹ Source: Food and Agriculture Organization of the United Nations, Rome Italy, *FAO Production Yearbook*, annual. (Copyright). ² Source: U.S. Energy Information Administration, *International Energy Annual*. ³ Excludes China: Mainland. Tin and merchant vessels exclude Soviet Union. For other exclusions, see source. ⁴ Freight loaded. ⁵ 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. 1433. World Population, 1980 and 1990, and Area, 1990, by Size of Country

[Covers only countries listed in table 1434. See headnote, table 1434]

POPULATION CLASS IN 1990	POPULATION, 1980		1989					
			Countries		Population		Area	
	Total (mil.)	Percent of total	Total number	Percent of total	Total (mil.)	Percent of total	Total number	Percent of total
Total	4,476	100.0	206	100.0	5,318	100.0	52,448	100.0
Under 1 million	13	0.3	75	36.4	16	0.3	1,281	2.4
1 to 5 million	87	1.9	38	18.4	108	2.0	4,046	7.7
5 to 10 million	171	3.8	28	13.6	210	3.9	3,986	7.6
10 to 25 million	392	8.8	30	14.6	479	9.0	7,625	14.5
25 to 50 million	358	8.0	13	6.3	433	8.1	9,773	18.6
Over 50 million	3,455	77.2	22	10.7	4,071	76.6	25,738	49.1

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

No. 1434. Population and Area, by Region and Country, 1980 and 1990, and Projections, 2000 and 2010

[Population data generally are de facto figures for the present territory. Population estimates were derived from information available as of mid-1989. See table 1436 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]

COUNTRY	MIDYEAR POPULATION (1,000)				1990, population rank	ANNUAL RATE OF GROWTH ¹ (percent)		1990, population per sq. mile	Area ² (sq. mile)
	1980	1990	2000, proj.	2010, proj.		1980- 1990	1990- 2000		
World total	4,475,687	5,318,013	6,263,663	7,211,250	(X)	1.7	1.6	101	52,448,831
Africa	493,359	661,951	884,984	1,163,578	(X)	2.9	2.9	57	11,692,673
Northern America ³	251,941	277,069	297,695	314,172	(X)	1.0	0.7	33	8,308,538
Latin America	363,762	448,892	537,493	624,257	(X)	2.1	1.8	57	7,930,816
Middle America	92,109	116,938	145,230	173,234	(X)	2.4	2.2	121	963,397
Caribbean	29,508	33,225	38,083	43,203	(X)	1.2	1.4	360	92,376
South	242,145	298,729	354,180	407,820	(X)	2.1	1.7	43	6,875,043
East Asia	1,181,094	1,335,079	1,508,424	1,625,704	(X)	1.2	1.2	293	4,550,909
South Asia	1,412,142	1,777,766	2,178,820	2,596,066	(X)	2.3	2.0	289	6,146,724
Europe	484,361	499,995	514,342	519,523	(X)	0.3	0.3	266	1,881,870
Soviet Union	266,410	290,938	311,637	334,003	(X)	0.9	0.7	34	8,649,496
Oceania	22,618	26,423	30,268	33,947	(X)	1.6	1.4	8	3,287,606
COUNTRIES									
Afghanistan	14,988	15,862	25,430	33,841	50	0.6	4.7	63	249,999
Albania	2,673	3,273	3,824	4,265	109	2.0	1.6	295	11,100
Algeria	18,850	25,567	32,693	39,367	35	3.0	2.5	28	918,487
Andorra	34	52	63	72	165	4.4	2.0	288	180
Angola	6,795	8,534	11,145	14,445	72	2.3	2.7	18	481,351
Antigua and Barbuda	69	64	69	76	181	-0.7	0.7	590	108
Argentina	28,237	32,291	36,036	39,864	30	1.3	1.1	30	1,068,297
Aruba	60	64	67	70	180	0.6	0.6	849	75
Australia	14,616	16,923	19,133	21,095	49	1.5	1.2	8	2,967,894
Austria	7,549	7,644	7,762	7,660	80	0.1	0.2	236	32,369
Bahamas, The	211	246	275	302	158	1.6	1.1	46	5,380
Bahrain	348	520	694	863	140	4.0	2.9	1,993	261
Bangladesh	88,077	118,453	153,687	191,670	9	3.0	2.6	2,130	55,598
Barbados	252	263	283	311	154	0.4	0.7	1,582	166
Belgium	9,847	9,909	9,989	9,889	66	0.1	0.1	840	11,792
Belize	147	220	301	377	157	4.0	3.2	25	8,866
Benin	3,444	4,674	6,509	8,939	95	3.1	3.3	107	43,483
Bhutan	1,281	1,566	1,909	2,277	124	2.0	2.0	87	18,000
Bolivia	5,393	6,707	8,151	9,671	86	2.2	1.9	16	424,162
Botswana	903	1,225	1,561	1,898	128	3.0	2.4	5	231,804
Brazil	122,942	152,505	180,536	207,462	6	2.2	1.7	46	3,286,524
Brunei	185	372	562	660	147	7.0	4.1	166	2,235
Bulgaria	8,844	8,934	9,004	9,072	71	0.1	0.1	209	42,823
Burkina Faso	6,939	9,078	12,464	17,158	70	2.7	3.2	98	92,741
Burma	33,530	41,277	49,787	58,601	24	2.1	1.9	158	261,217
Burundi	4,138	5,646	7,731	10,423	89	3.1	3.1	525	10,747
Cambodia	5,692	6,991	8,498	10,023	84	2.1	2.0	100	69,898
Cameroon	8,577	11,082	14,453	18,625	59	2.6	2.6	60	183,567
Canada	24,070	26,538	29,301	31,464	31	1.0	1.0	7	3,849,656
Cape Verde	296	375	504	649	146	2.4	3.0	240	1,580
Central African Republic	2,269	2,877	3,702	4,712	113	2.4	2.5	12	240,534
Chad	4,022	5,017	6,204	7,652	93	2.2	2.1	10	495,998
Chile	11,094	13,083	15,025	16,817	55	1.6	1.4	45	292,257
China: Mainland	983,379	1,118,163	1,277,797	1,386,865	1	1.3	1.3	302	3,705,390
Taiwan	17,848	20,547	22,436	24,098	41	1.4	0.9	1,650	12,456
Colombia	26,580	33,076	39,745	45,603	29	2.2	1.8	75	439,735
Comoros ⁴	334	460	656	920	142	3.2	3.5	549	838
Congo	1,620	2,242	2,995	3,908	119	3.3	2.9	17	132,046
Costa Rica	2,307	3,033	3,803	4,546	112	2.7	2.3	155	19,575
Cuba	9,653	10,620	11,613	12,277	60	1.0	0.9	240	44,197
Cyprus	627	702	768	830	137	1.1	0.9	197	3,572
Czechoslovakia	15,255	15,683	16,303	16,824	51	0.3	0.4	318	49,371
Denmark	5,123	5,131	5,147	5,095	92	(Z)	(Z)	309	16,632
Djibouti	279	337	440	571	152	1.9	2.7	40	8,494
Dominica	75	85	101	118	173	1.2	1.7	292	291
Dominican Republic	5,847	7,241	8,676	10,080	83	2.1	1.8	385	18,816
Ecuador	8,123	10,507	12,997	15,543	62	2.6	2.1	96	109,483
Egypt	41,965	54,706	68,968	85,047	21	2.7	2.3	141	386,660
El Salvador	4,658	5,310	6,471	7,628	90	1.3	2.0	654	8,124
Ethiopia	38,563	51,667	70,808	95,496	22	2.9	3.2	110	471,776
Equatorial Guinea	256	369	477	615	148	3.7	2.6	34	10,830
Fiji	631	760	877	1,010	136	1.9	1.4	107	7,095
Finland	4,780	4,977	5,075	5,088	94	0.4	0.2	38	130,159
France	53,870	56,358	58,548	59,708	18	0.5	0.4	267	211,207
Gabon	806	1,068	1,231	1,423	130	2.1	1.4	10	103,346
Gambia, The	644	848	1,151	1,553	133	2.7	3.1	194	4,361
Germany	78,298	78,475	80,111	78,960	12	(Z)	0.2	570	137,744

See footnotes at end of table.

No. 1434. Population and Area, by Region and Country, 1980 and 1990, and Projections, 2000 and 2010—Continued

[See headnote, page 830]

COUNTRY	MIDYEAR POPULATION (1,000)				1990, population rank	ANNUAL RATE OF GROWTH (percent)		1990, population per sq. mile	Area ² (sq. mile)
	1980	1990	2000, proj.	2010, proj.		1980- 1990	1990- 2000		
Ghana	10,739	15,165	20,599	27,262	52	3.5	3.1	165	92,100
Greece	9,643	10,028	10,166	10,160	65	0.4	0.1	197	50,944
Grenada	90	84	83	98	174	-0.7	-0.1	633	133
Guatemala	6,864	9,098	11,444	13,665	69	2.8	2.3	217	42,000
Guinea	5,484	7,269	9,232	11,562	82	2.8	2.4	77	94,964
Guinea-Bissau	789	999	1,265	1,579	132	2.4	2.4	71	14,000
Guyana	759	765	821	950	135	0.1	0.7	9	83,000
Haiti	5,473	6,142	7,649	9,421	87	1.2	2.2	573	10,714
Honduras	3,774	5,260	6,860	8,480	91	3.3	2.7	122	43,277
Hungary	10,711	10,569	10,604	10,602	61	-0.1	(2)	294	35,919
Iceland	228	257	280	296	155	1.2	0.9	6	39,708
India	688,995	849,746	1,012,628	1,166,065	2	2.1	1.8	669	1,269,339
Indonesia	154,936	190,136	223,820	256,818	5	2.0	1.6	243	782,659
Iran	39,124	55,647	75,701	100,730	19	3.5	3.1	87	636,293
Iraq	13,233	18,782	27,205	38,047	44	3.5	3.7	112	167,924
Ireland	3,401	3,500	3,509	3,685	105	0.3	(2)	129	27,136
Israel	3,737	4,409	5,112	5,858	97	1.7	1.5	551	8,000
Italy	56,451	57,664	58,592	58,011	15	0.2	0.2	496	116,302
Ivory Coast	8,417	12,478	18,144	25,263	57	3.9	3.7	100	124,503
Jamaica	2,229	2,441	2,707	3,101	116	0.9	1.0	575	4,244
Japan	116,807	123,642	127,498	128,140	7	0.6	0.3	860	143,750
Jordan	2,152	3,065	4,370	5,893	110	3.5	3.5	88	35,000
Kenya	16,693	24,639	35,142	47,364	36	3.9	3.6	110	224,960
Kiribati	58	70	81	90	177	1.9	1.5	252	278
Kuwait	1,370	2,124	2,879	3,635	121	4.4	3.0	309	6,880
Laos	3,292	4,024	4,964	5,951	101	2.0	2.1	44	91,430
Lebanon	3,138	3,339	4,058	4,934	106	0.6	1.9	835	4,000
Lesotho	1,347	1,755	2,242	2,778	123	2.6	2.4	149	11,761
Liberia	1,901	2,640	3,674	4,977	115	3.3	3.3	61	43,000
Libya	3,032	4,221	5,594	7,057	99	3.3	2.8	6	679,359
Liechtenstein	25	28	30	31	192	1.2	0.5	456	62
Luxembourg	364	384	410	409	145	0.5	0.7	385	998
Madagascar	8,699	11,801	16,185	21,954	58	3.0	3.2	52	228,919
Malawi	6,004	9,158	16,290	26,290	68	4.2	2.5	200	45,747
Malaysia	13,764	17,511	21,399	25,672	46	2.4	2.0	136	128,400
Maldives	154	218	312	427	158	3.5	3.6	1,895	115
Mali	6,693	8,142	10,667	14,398	75	2.0	2.7	17	478,764
Malta	364	353	377	393	149	-0.3	0.6	2,921	121
Mauritania	1,456	1,935	2,652	3,624	122	2.8	3.2	5	397,954
Mauritius	964	1,070	1,161	1,259	129	1.0	0.8	1,486	720
Mexico	69,609	87,870	108,535	128,916	11	2.3	2.1	115	761,601
Monaco	27	29	32	34	191	1.0	0.7	29,453	1
Mongolia	1,662	2,187	2,836	3,579	120	2.7	2.6	4	604,100
Morocco	20,547	25,630	31,392	37,349	34	2.2	2.0	149	172,413
Mozambique	12,103	14,566	18,005	23,646	54	1.9	2.1	48	302,328
Nauru	8	9	10	11	202	1.8	1.3	1,150	8
Nepal	14,987	19,146	24,340	30,622	43	2.4	2.4	352	54,359
Netherlands	14,144	14,936	15,642	15,814	53	0.5	0.5	947	15,770
New Zealand	3,113	3,296	3,400	3,441	107	0.6	0.3	32	103,736
Nicaragua	2,793	3,723	4,878	6,188	103	2.9	2.7	74	50,193
Niger	5,579	7,879	11,056	15,323	78	3.5	3.4	16	489,189
Nigeria	90,036	118,819	160,751	213,042	8	2.8	3.0	333	356,667
North Korea	17,892	21,293	24,851	27,483	40	1.7	1.5	455	46,768
Norway	4,086	4,253	4,411	4,463	98	0.4	0.4	34	125,181
Oman	984	1,457	2,000	2,774	125	3.9	3.2	18	82,000
Pakistan	85,219	114,649	149,147	195,215	10	3.0	2.6	369	310,403
Panama	1,956	2,425	2,937	3,433	117	2.1	1.9	81	29,761
Papua New Guinea	2,991	3,823	4,806	5,924	102	2.5	2.3	21	178,259
Paraguay	3,379	4,660	6,023	7,381	96	3.2	2.6	30	157,046
Peru	17,295	21,906	26,435	30,880	39	2.4	1.9	44	496,222
Philippines	50,858	66,117	82,728	99,926	14	2.6	2.2	570	116,000
Poland	35,578	37,777	38,889	40,599	27	0.6	0.3	313	120,700
Portugal	9,778	10,354	10,652	10,764	64	0.6	0.3	291	35,553
Qatar	231	491	743	954	141	7.6	4.1	116	4,247
Romania	22,201	23,273	24,534	25,417	38	0.5	0.5	254	91,698
Rwanda	5,281	7,609	11,047	15,787	81	3.7	3.7	748	10,169
Saint Kitts and Nevis	44	40	44	51	189	-1.0	0.9	398	101
Saint Lucia	122	153	197	246	165	2.2	2.5	641	239
Saint Vincent and the Grenadines	98	113	132	156	168	1.4	1.6	751	150
San Marino	21	23	24	26	194	0.8	0.6	963	24
Sao Tome and Principe	94	125	166	211	167	2.8	2.9	335	372
Saudi Arabia	10,150	17,116	25,003	34,134	48	5.2	3.8	21	829,986
Senegal	5,731	7,714	10,482	14,090	79	3.0	3.1	102	75,750
Seychelles	63	68	74	80	178	0.8	0.8	633	108
Sierra Leone	3,315	4,166	5,399	6,980	100	2.3	2.6	150	27,699
Singapore	2,414	2,721	3,021	3,233	114	1.2	1.0	11,385	239
Solomon Islands	233	335	469	620	153	3.7	3.4	29	11,500
Somalia	6,110	8,424	10,406	14,076	74	3.2	2.1	34	246,200
South Africa	30,270	39,550	51,528	66,369	25	2.7	2.6	84	471,443
South Korea	38,124	43,045	46,267	48,459	23	1.2	0.7	1,132	38,031

See footnotes at end of table.

No. 1434. Population and Area, by Region and Country, 1980 and 1990, and Projections, 2000 and 2010—Continued

[See headnote, page 830]

COUNTRY	MIDYEAR POPULATION (1,000)				1990, popula- tion rank	ANNUAL RATE OF GROWTH ¹ (percent)		1990, popula- tion per sq. mile	Area ² (sq. mile)
	1980	1990	2000, proj.	2010, proj.		1980- 1990	1990- 2000		
Soviet Union	266,410	290,938	311,637	334,003	3	0.9	0.7	34	8,649,496
Spain	37,488	39,269	40,456	40,998	26	0.5	0.3	201	194,896
Sri Lanka	14,900	17,196	19,436	21,834	47	1.4	1.2	679	25,332
Sudan	18,882	26,425	35,870	46,980	32	3.4	3.1	27	967,495
Suriname	355	397	463	535	144	1.1	1.5	6	63,037
Swaziland	584	779	1,053	1,394	134	2.9	3.0	116	6,704
Sweden	8,310	8,526	8,761	8,728	73	0.3	0.3	49	173,731
Switzerland	6,385	6,742	7,018	6,989	85	0.5	0.4	424	15,918
Syria	8,692	12,483	18,213	25,949	56	3.6	3.8	175	71,498
Tanzania	18,718	25,971	36,489	50,795	33	3.3	3.4	71	363,947
Thailand	46,957	55,116	62,181	68,437	20	1.8	1.2	277	198,772
Togo	2,596	3,674	5,248	7,336	104	3.5	3.6	167	22,000
Tonga	93	101	110	119	170	0.9	0.8	263	385
Trinidad and Tobago	1,105	1,345	1,652	1,992	127	2.0	2.1	679	1,980
Tunisia	6,452	8,124	10,056	11,944	76	2.3	2.1	129	83,170
Turkey	45,121	56,704	69,021	81,417	17	2.3	2.0	188	301,381
Tuvalu	7	9	11	12	203	2.0	1.6	914	10
Uganda	12,765	17,960	25,051	33,385	45	3.4	3.3	197	91,075
United Arab Emirates	1,000	2,254	3,598	4,920	118	8.1	4.7	70	32,278
United Kingdom	58,314	57,366	58,719	59,178	16	0.2	0.2	609	94,200
United States	227,757	250,410	268,266	282,575	4	0.9	0.7	69	3,618,769
Uruguay	2,896	3,037	3,221	3,413	111	0.5	0.6	45	66,037
Vanuatu	117	165	221	279	163	3.4	2.9	29	5,700
Venezuela	15,024	19,698	24,596	29,518	42	2.7	2.2	56	352,143
Vietnam	53,397	66,171	79,801	92,027	13	2.1	1.9	520	127,300
Western Samoa	155	186	235	269	161	1.8	1.8	164	1,133
Yemen	7,324	9,746	13,603	18,985	67	3.0	3.3	49	199,698
Yugoslavia	22,304	23,842	25,112	25,965	37	0.7	0.5	241	88,766
Zaire	26,682	36,589	50,317	68,003	28	3.2	3.2	40	905,563
Zambia	5,629	8,113	11,586	16,216	77	3.7	3.6	28	290,584
Zimbabwe	7,298	10,392	13,817	17,619	63	3.5	2.8	69	151,000
AREAS OF SPECIAL SOVEREIGNTY AND DEPENDENCIES									
American Samoa	32	42	52	57	189	2.6	2.1	551	76
Anguilla	7	7	7	8	208	0.5	0.7	197	35
Bermuda	57	58	59	60	183	0.2	0.1	2,917	20
British Virgin Islands	11	12	14	16	201	1.1	1.2	208	59
Cayman Islands	17	26	36	46	194	4.3	3.1	264	100
Cook Islands	18	18	19	20	197	0.1	0.5	191	93
Faeroe Islands	43	48	52	55	187	0.9	0.8	92	517
Federated States of Micronesia	77	105	125	130	170	3.1	1.8	387	271
French Guiana	68	98	132	163	173	3.7	2.9	3	35,100
French Polynesia	151	190	242	296	161	2.3	2.4	123	1,544
Gaza Strip	453	616	837	1,113	139	3.1	3.1	4,397	140
Gibraltar	29	30	30	30	191	0.1	0.1	14,786	2
Greenland	50	56	62	66	185	1.1	1.0	(Z)	840,000
Guadeloupe	327	342	376	406	151	0.5	1.0	498	687
Guam	107	141	179	209	167	2.8	2.4	675	209
Guernsey	53	57	60	62	184	0.7	0.5	763	75
Hong Kong	5,063	5,760	6,264	6,594	89	1.3	0.8	14,083	409
Isle of Man	64	65	66	66	180	0.1	0.1	286	227
Jersey	76	84	90	93	176	1.0	0.7	1,858	45
Macau	318	442	474	487	144	3.3	0.7	73,615	6
Marshall Islands	31	43	56	66	188	3.5	2.5	620	70
Martinique	326	340	368	386	152	0.4	0.8	801	425
Mayotte	50	72	106	153	177	3.6	3.9	498	145
Montserrat	12	12	13	13	200	0.6	0.2	320	39
Namibia	1,015	1,453	2,081	2,895	127	3.6	3.6	5	318,261
Netherlands Antilles	170	184	192	204	163	0.8	0.5	261	703
New Caledonia	139	153	176	203	165	0.9	1.4	18	8,548
Northern Mariana Islands	17	23	29	32	196	3.0	2.4	123	184
Pacific Islands, Trust Territory of the	13	14	15	16	199	0.7	0.7	27	533
Puerto Rico	3,206	3,291	3,406	3,688	109	0.3	0.3	958	3,435
Reunion	507	596	708	808	140	1.6	1.7	614	970
Saint Helena	6	7	7	7	205	0.3	0.6	142	47
Saint Pierre and Miquelon	6	6	7	7	207	0.5	0.3	68	93
Turks and Caicos Islands	7	10	12	13	202	2.7	1.7	59	166
Virgin Islands	98	99	110	127	172	0.2	1.0	746	133
Wallis and Futuna	11	16	22	28	198	4.0	2.9	201	80
West Bank	833	1,058	1,367	1,731	132	2.4	2.6	468	2,262
Western Sahara	126	192	246	304	160	4.2	2.5	2	103,000

X Not applicable. 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, unpublished data.

No. 1435. World Population by Age Group, 1990, and Projections, 2000

[In percent. Covers countries with 10 million or more population in 1990. See table 1436 for country components of regions. Data compiled from the International Data Base; see text, section 31]

COUNTRY	1990				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	11.8	20.5	61.7	6.0	10.9	20.1	62.3	6.7
Africa	17.8	26.9	52.4	2.9	16.8	26.9	53.2	3.0
North America	7.3	14.2	66.0	12.5	6.3	13.8	66.9	13.0
Latin America	12.7	23.4	59.3	4.6	10.9	21.1	62.7	4.4
Middle America	14.2	25.5	56.5	3.8	12.3	23.2	60.2	4.4
Caribbean	11.9	20.4	61.2	6.5	10.3	20.3	62.6	6.7
South America	12.1	22.9	60.2	4.8	10.4	20.3	63.7	5.6
East Asia	9.3	16.5	68.0	6.2	8.6	17.0	66.7	7.6
South Asia	14.1	24.0	58.4	3.5	12.3	22.7	61.0	4.1
Europe	6.3	13.2	66.9	13.6	5.9	12.2	66.3	15.6
Soviet Union	9.1	17.0	64.5	9.4	7.9	16.3	64.4	11.5
Oceania	9.2	17.3	64.2	9.4	8.4	16.7	64.8	10.1
COUNTRIES								
United States	7.4	14.2	65.8	12.6	6.3	13.9	66.8	13.0
Afghanistan	17.0	26.4	53.8	2.7	16.3	26.2	54.6	2.9
Algeria	16.3	27.3	52.6	3.8	13.3	25.2	57.5	4.1
Argentina	9.7	19.9	61.3	9.1	9.1	17.4	63.6	9.8
Australia	7.4	14.6	66.8	11.2	6.7	14.1	67.0	12.2
Bangladesh	16.9	27.2	52.6	3.3	14.7	25.5	56.6	3.3
Brazil	12.1	23.4	60.3	4.2	10.3	20.2	64.4	5.1
Burma	14.2	24.0	57.8	4.0	12.6	23.2	59.9	4.3
Cameroon	17.0	26.7	53.2	3.1	16.3	26.2	54.5	3.1
Canada	7.0	13.8	67.7	11.5	6.0	13.0	67.9	13.1
Chile	10.4	19.6	63.9	6.1	9.0	18.1	65.5	7.4
China: Mainland	9.8	16.7	67.9	5.7	9.0	17.8	66.3	6.8
Taiwan	7.9	19.3	66.6	6.2	6.7	14.1	70.8	8.4
Colombia	12.4	21.9	61.8	3.9	9.9	20.7	64.4	4.9
Cuba	8.4	14.3	68.5	8.8	7.3	15.6	67.3	9.8
Czechoslovakia	6.8	15.9	65.4	11.8	6.8	13.1	67.1	13.0
Ecuador	13.9	25.3	57.1	3.8	11.8	22.5	61.5	4.2
Egypt	15.1	25.7	55.8	3.4	13.3	24.0	58.9	3.8
Ethiopia	18.0	27.8	51.5	2.7	17.8	27.4	51.9	2.8
France	6.7	13.3	65.9	14.1	6.2	12.9	65.0	15.9
Germany	5.5	10.4	69.1	15.0	5.2	11.1	67.1	16.7
Ghana	19.0	25.4	52.7	3.0	17.7	28.4	50.8	3.0
Greece	5.4	13.7	66.8	14.0	5.4	10.7	65.9	18.0
Hungary	5.9	14.1	66.6	13.4	6.0	11.6	67.0	15.4
India	13.2	23.0	60.3	3.5	11.2	21.6	63.1	4.1
Indonesia	12.3	24.0	60.7	3.0	10.2	20.3	65.2	4.4
Iran	18.0	26.7	51.7	3.5	16.6	27.5	51.9	4.0
Iraq	18.9	28.9	49.0	3.2	18.0	28.6	50.4	3.0
Italy	5.0	11.6	68.7	14.7	5.3	10.6	66.8	17.6
Ivory Coast	19.3	27.6	51.1	1.9	18.7	28.6	50.4	2.2
Japan	5.4	13.0	69.7	11.9	5.3	10.4	67.7	16.5
Kenya	19.5	30.0	48.3	2.2	17.3	28.9	51.4	2.4
Madagascar	19.1	27.2	50.3	3.4	18.2	28.2	50.5	3.1
Malaysia	13.8	22.8	59.7	3.8	10.9	22.9	62.1	4.1
Mexico	13.6	25.0	57.6	3.8	11.9	22.5	61.1	4.5
Morocco	13.7	24.9	57.2	4.2	11.6	22.3	61.3	4.7
Mozambique	18.1	26.7	52.8	2.5	17.4	27.3	52.8	2.5
Nepal	16.4	26.9	53.9	2.8	15.3	25.4	56.3	3.0
Netherlands	6.2	11.9	68.9	12.9	5.9	12.1	67.6	14.3
Nigeria	18.0	26.9	53.0	2.1	17.7	26.9	52.7	2.7
North Korea	10.3	18.9	66.5	4.2	8.9	18.1	67.6	5.4
Pakistan	17.7	26.1	52.2	4.0	16.7	26.9	52.6	3.9
Peru	13.1	24.9	58.2	3.8	10.9	21.4	63.2	4.5
Philippines	14.9	25.3	56.4	3.4	12.9	24.0	59.2	3.9
Poland	7.7	17.4	65.0	10.0	6.4	13.8	67.5	12.2
Portugal	5.9	14.8	66.1	13.1	5.8	11.6	67.3	15.3
Romania	7.7	15.8	66.2	10.4	6.9	14.5	65.2	13.3
Saudi Arabia	15.6	21.5	61.0	1.9	14.8	23.3	59.5	2.5
South Africa	15.3	24.5	58.2	3.9	14.8	24.7	58.4	4.0
South Korea	7.8	18.5	68.9	4.7	6.6	13.8	73.2	6.4
Soviet Union	9.1	17.0	64.5	9.4	7.9	16.3	64.4	11.5
Spain	5.4	14.5	66.7	13.4	5.7	10.8	67.0	16.5
Sri Lanka	10.1	21.7	63.1	5.1	9.2	17.6	67.0	6.2
Sudan	18.4	27.7	51.5	2.4	17.0	27.5	53.2	2.2
Syria	19.0	28.5	49.5	3.0	18.5	28.5	50.0	3.0
Tanzania	19.9	28.4	48.8	2.9	19.3	28.9	49.2	2.7
Thailand	9.7	21.3	65.0	4.1	8.4	16.8	69.4	5.4
Turkey	13.2	23.5	58.8	4.4	11.3	21.7	61.8	5.3
Uganda	20.6	28.2	48.9	2.2	19.2	29.5	49.2	2.1
United Kingdom	6.7	12.2	65.5	15.6	6.1	13.1	64.7	16.0
Venezuela	13.4	24.2	58.5	3.9	11.4	21.8	61.9	4.9
Vietnam	14.0	24.7	56.6	4.7	11.4	22.8	60.8	5.0
Yugoslavia	7.3	15.5	67.8	9.4	6.4	13.5	66.8	13.3
Zaire	18.8	27.2	51.2	2.8	17.7	28.3	51.2	2.9

Source: U.S. Bureau of the Census, International Data Base.

No. 1436. Birth and Death Rates, and Other Vital Statistics, 1990, and Projections, 2000—Selected Countries

[Covers countries with 1 million or more population in 1989. AFR - Africa, EAS - East Asia, SAS - South Asia, CAR - Caribbean, MAM - Middle America, SAM - South America, NAM - North America, EUR - Europe, SOV - Soviet Union, OCE - Oceania. Data compiled from the International Data Base; see text, section 31]

COUNTRY	Region	CRUDE BIRTH RATE ¹		CRUDE DEATH RATE ²		EXPECTATION OF LIFE AT BIRTH (years)		INFANT MORTALITY RATE ³		TOTAL FERTILITY RATE ⁴	
		1990	2000	1990	2000	1990	2000	1990	2000	1990	2000
United States.....	NAM	14.9	12.6	8.7	8.8	75.6	77.0	10.4	9.3	1.85	1.84
Afghanistan.....	SAS	43.7	39.8	17.9	13.4	46.6	53.1	154.2	125.5	6.40	5.58
Algeria.....	AFR	37.3	28.6	9.4	7.4	62.7	65.8	87.1	72.8	5.42	3.78
Angola.....	AFR	46.8	42.6	20.3	16.2	43.8	48.9	157.9	127.5	6.72	6.05
Argentina.....	SAM	20.0	19.2	8.7	8.6	70.7	72.3	31.8	26.0	2.77	2.50
Australia.....	OCE	14.7	13.2	7.5	7.4	76.6	78.7	8.2	6.5	1.84	1.80
Austria.....	EUR	11.6	9.8	10.8	10.1	77.1	78.9	5.7	3.3	1.45	1.50
Bangladesh.....	SAS	42.3	34.4	14.3	10.6	53.6	58.4	135.6	116.0	5.72	4.50
Belgium.....	EUR	11.9	10.3	10.6	10.2	76.9	78.8	5.8	3.4	1.59	1.60
Bolivia.....	SAM	35.1	30.3	13.2	10.9	53.9	57.6	125.2	110.0	4.65	3.75
Brazil.....	SAM	26.2	22.2	7.5	7.0	64.9	67.5	69.2	60.2	3.13	2.60
Bulgaria.....	EUR	13.0	12.4	11.7	10.8	72.3	76.0	13.3	6.5	1.92	1.80
Burkina Faso.....	AFR	50.1	45.8	16.7	12.4	51.8	56.4	121.4	97.6	7.18	6.48
Burma.....	SAS	32.9	28.1	12.8	10.7	54.5	58.0	96.9	79.5	4.15	3.51
Burundi.....	AFR	47.3	41.6	14.9	11.1	51.9	56.4	111.4	88.5	6.95	6.25
Cambodia.....	SAS	38.5	28.8	16.4	12.1	48.7	54.6	128.2	96.4	4.53	3.98
Cameroon.....	AFR	41.7	38.2	15.2	12.0	50.6	55.2	120.1	95.7	5.70	5.00
Canada.....	NAM	14.0	11.8	7.4	7.7	77.3	79.2	7.3	6.1	1.67	1.68
Chile.....	SAM	21.4	18.1	5.8	5.9	73.2	75.1	18.3	13.4	2.51	2.29
China: Mainland.....	EAS	21.6	17.4	7.2	7.0	68.4	70.9	34.3	25.0	2.28	2.10
Taiwan.....	EAS	15.8	13.8	5.1	6.0	74.1	75.9	17.1	14.0	1.70	1.70
Colombia.....	SAM	26.6	19.5	5.1	4.4	70.6	74.1	37.9	28.5	2.90	2.25
Cuba.....	CAR	18.1	14.1	6.7	7.1	75.5	76.4	12.0	11.0	1.86	1.86
Czechoslovakia.....	EUR	13.6	13.6	11.0	8.9	72.6	76.3	11.3	7.8	1.97	1.80
Denmark.....	EUR	11.6	10.9	11.4	10.9	75.7	78.0	6.4	3.8	1.56	1.60
Dominican Republic.....	CAR	27.7	22.2	7.0	5.6	66.9	70.2	61.9	44.2	3.19	2.57
Ecuador.....	SAM	30.2	24.8	7.0	5.9	65.9	69.0	61.1	46.7	3.79	2.93
Egypt.....	AFR	34.4	29.5	9.6	7.4	60.3	64.8	89.9	63.7	4.68	3.82
El Salvador.....	MAM	33.9	29.6	7.1	5.4	65.0	69.6	49.2	31.0	4.14	3.30
Ethiopia.....	AFR	45.3	42.6	14.9	12.0	50.9	55.4	115.8	92.4	7.03	6.33
France.....	EUR	13.6	12.3	9.4	9.1	77.6	79.3	6.3	4.3	1.82	1.80
Germany.....	EUR	11.2	9.8	11.3	10.5	75.5	77.9	7.0	6.0	1.44	1.55
Ghana.....	AFR	46.4	40.7	13.3	10.9	54.2	57.5	89.4	75.9	6.44	5.79
Greece.....	EUR	10.9	10.9	9.4	9.7	77.6	79.3	10.3	7.6	1.54	1.60
Guatemala.....	MAM	37.5	28.0	8.5	6.4	62.7	66.8	61.1	45.9	5.06	3.50
Guinea.....	AFR	47.4	39.6	21.9	17.2	42.4	47.0	146.7	122.0	6.07	5.46
Haiti.....	CAR	44.6	35.3	15.6	12.1	53.3	56.1	107.0	94.0	6.40	5.16
Hong Kong.....	EAS	12.9	10.8	5.1	6.4	78.7	79.9	5.7	5.7	1.38	1.50
Hungary.....	EUR	11.7	12.1	12.8	10.6	71.2	75.5	14.6	9.3	1.78	1.70
India.....	SAS	30.0	24.1	10.5	8.6	57.7	62.1	89.4	67.3	3.78	3.00
Indonesia.....	SAS	28.6	21.5	8.5	6.7	60.3	66.6	74.7	53.9	3.11	2.43
Iran.....	SAS	45.1	37.4	9.6	6.9	62.6	67.6	90.5	70.2	6.32	5.31
Iraq.....	SAS	46.4	40.1	7.4	5.1	66.5	71.0	67.4	50.5	7.31	5.81
Italy.....	EUR	10.4	10.6	9.5	9.6	78.0	79.6	6.1	5.4	1.37	1.50
Ivory Coast.....	AFR	48.1	43.8	12.7	9.9	53.9	58.3	99.6	77.8	6.90	6.21
Japan.....	EAS	10.6	10.7	6.8	8.5	79.3	80.0	4.5	4.8	1.61	1.50
Kenya.....	AFR	44.9	37.8	7.1	4.9	64.5	68.7	59.8	40.6	6.52	5.04
Madagascar.....	AFR	47.1	42.7	14.9	11.5	52.2	56.7	97.3	78.1	6.94	6.25
Malawi.....	AFR	52.1	47.0	17.8	13.9	48.9	53.2	130.2	108.0	7.68	6.94
Malaysia.....	SAS	29.2	19.8	6.2	5.3	67.8	70.8	29.8	20.1	3.51	2.45
Mali.....	AFR	51.1	46.8	21.0	16.6	45.6	50.3	115.5	101.2	7.09	6.31
Mexico.....	MAM	29.0	24.4	4.9	4.1	71.8	75.4	32.7	20.8	3.43	2.77
Morocco.....	AFR	30.6	24.7	8.2	5.8	64.0	69.8	78.5	56.4	3.96	2.95
Mozambique.....	AFR	46.6	42.1	17.7	14.0	47.0	51.5	138.2	112.9	6.49	5.84
Namibia.....	AFR	45.6	41.4	9.9	7.4	59.9	64.2	70.8	52.2	6.64	5.97
Nepal.....	SAS	39.2	35.6	15.1	11.7	50.1	55.2	99.4	82.5	5.61	4.68
Netherlands.....	EUR	12.8	11.4	8.4	8.5	77.6	79.3	7.0	5.9	1.56	1.60
Niger.....	AFR	50.8	46.0	16.4	12.5	50.5	55.5	130.6	110.8	7.09	6.38
Nigeria.....	AFR	46.2	43.1	16.5	13.8	48.5	52.7	119.3	103.4	6.54	5.99
North Korea.....	EAS	21.8	16.9	4.8	4.5	72.3	75.4	27.2	15.9	2.06	1.90
Pakistan.....	SAS	43.6	39.8	13.3	11.0	56.3	59.6	110.4	98.4	6.71	5.94

See footnotes at end of table.

No. 1436. Birth and Death Rates, and Other Vital Statistics, 1990, and Projections, 2000—Selected Countries—Continued

[See headnote, page 834]

COUNTRY	Region	CRUDE BIRTH RATE ¹		CRUDE DEATH RATE ²		EXPECTATION OF LIFE AT BIRTH (years)		INFANT MORTALITY RATE ³		TOTAL FERTILITY RATE ⁴	
		1990	2000	1990	2000	1990	2000	1990	2000	1990	2000
Peru	SAM	28.5	23.2	7.7	6.2	63.9	68.1	67.3	53.2	3.62	2.70
Philippines	SAS	32.5	27.4	6.7	5.9	65.9	68.5	48.0	38.1	4.26	3.50
Poland	EUR	14.5	13.0	9.5	8.5	72.5	76.1	13.2	6.4	2.08	1.80
Portugal	EUR	12.0	11.5	9.6	9.3	74.4	77.4	13.8	9.1	1.53	1.50
Puerto Rico	CAR	19.2	17.6	7.8	6.6	72.1	75.9	16.8	12.8	2.16	2.00
Romania	EUR	16.0	13.4	10.1	8.6	71.6	75.6	19.0	10.9	2.16	1.80
Rwanda	AFR	53.0	47.8	15.0	11.1	52.0	56.8	112.7	88.3	8.49	7.65
Saudi Arabia	SAS	37.1	33.6	6.5	4.7	65.4	70.6	71.4	50.6	6.76	6.31
Senegal	AFR	44.0	40.6	13.5	10.1	54.5	60.0	87.1	72.1	6.31	5.57
Somalia	AFR	46.8	41.8	14.6	10.9	53.3	59.1	125.0	98.1	7.28	6.55
South Africa	AFR	34.5	32.7	8.0	6.8	63.9	67.1	52.2	39.7	4.50	4.28
South Korea	EAS	15.0	13.2	6.2	6.5	69.6	72.4	22.9	14.6	1.58	1.50
Soviet Union	SOV	17.8	16.2	10.4	9.4	69.5	73.2	23.7	14.7	2.39	2.27
Spain	EUR	11.1	11.5	8.2	8.8	78.2	79.7	6.2	5.5	1.45	1.50
Sri Lanka	SAS	21.2	19.1	6.2	6.2	69.7	71.9	30.5	23.5	2.34	2.22
Sudan	AFR	44.7	38.9	13.5	10.3	52.6	56.8	86.4	68.7	6.47	5.46
Sweden	EUR	13.1	11.4	11.4	10.9	77.7	79.3	5.9	5.3	1.94	1.80
Switzerland	EUR	12.1	10.4	9.0	9.3	78.9	80.1	4.9	3.6	1.57	1.60
Syria	SAS	43.6	40.9	5.7	3.9	68.9	73.1	37.9	27.1	6.73	6.00
Tanzania	AFR	50.0	46.1	15.6	12.0	51.5	56.1	107.0	86.4	7.09	6.39
Thailand	SAS	19.7	17.2	6.6	6.2	66.8	70.3	34.2	23.0	2.12	1.85
Tunisia	AFR	29.7	24.3	6.3	5.3	69.1	72.1	39.8	28.3	4.03	3.15
Turkey	SAS	29.1	23.8	7.6	6.0	65.7	70.4	73.6	47.3	3.64	2.90
Uganda	AFR	52.0	46.9	16.6	15.8	48.7	48.7	106.7	106.7	7.35	6.62
United Kingdom	EUR	13.8	11.8	11.2	10.1	76.3	78.5	7.3	6.0	1.82	1.80
Venezuela	SAM	28.4	23.6	4.2	3.8	73.9	77.1	27.0	20.1	3.45	2.88
Vietnam	SAS	30.1	23.2	8.3	6.4	64.2	68.8	49.8	34.4	3.81	2.80
Yemen	SAS	51.2	48.3	16.6	12.4	49.6	54.8	124.0	96.5	7.46	6.74
Yugoslavia	EUR	14.5	12.8	8.8	8.1	72.7	76.3	22.1	12.3	1.94	1.80
Zaire	AFR	46.3	41.3	13.5	10.4	53.4	58.0	103.1	80.9	6.23	5.60
Zambia	AFR	49.5	43.9	11.8	9.0	56.2	60.7	80.1	62.6	7.00	6.30
Zimbabwe	AFR	41.5	33.0	8.6	6.0	61.2	65.7	64.9	45.8	5.76	4.15

¹ Number of births during 1 year per 1,000 persons (based on midyear population). ² Number of deaths during 1 year per 1,000 persons (based on midyear population). ³ Number of deaths of children under 1 year of age per 1,000 live births in a calendar year. ⁴ Average number of children that would be born 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.

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

No. 1437. Population and Average Annual Rates of Growth for World's 94 Largest Cities: 1989 to 2000

[Cities are defined as population clusters of continuous built-up area with a population density of at least 5,000 persons per square mile]

CITY AND COUNTRY	Rank	MIDYEAR POPULATION (1,000)				AVERAGE ANNUAL GROWTH RATE (percent)			Area (square miles)	Density 1989 (pop. per square mile)
		1989	1990	1995	2000	1989-1990	1990-1995	1995-2000		
Tokyo-Yokohama, Japan	1	26,640	26,952	28,447	29,971	1.16	1.08	1.04	1,089	24,463
Mexico City, Mexico	2	19,478	20,207	23,913	27,872	3.67	3.37	3.06	522	37,314
Sao Paulo, Brazil	3	17,376	18,052	21,539	25,354	3.82	3.53	3.26	451	38,528
Seoul, South Korea	4	15,716	16,268	19,065	21,976	3.45	3.17	2.84	342	45,953
New York, United States	5	14,618	14,622	14,638	14,648	0.03	0.02	0.01	1,274	11,473
Osaka-Kobe-Kyoto, Japan	6	13,777	13,826	14,060	14,287	0.35	0.34	0.32	495	27,833
Bombay, India	7	11,428	11,777	13,532	15,357	3.00	2.78	2.53	95	120,299
Calcutta, India	8	11,413	11,663	12,885	14,088	2.17	1.99	1.79	209	54,607
Buenos Aires, Argentina	9	11,360	11,518	12,232	12,911	1.38	1.20	1.08	535	21,233
Rio de Janeiro, Brazil	10	11,153	11,428	12,786	14,169	2.44	2.25	2.05	260	42,894
Moscow, Soviet Union	11	10,278	10,367	10,769	11,121	0.86	0.78	0.64	379	27,117
Los Angeles, United States	12	9,974	10,060	10,414	10,714	0.86	0.69	0.57	1,110	8,985
Cairo, Egypt	13	9,585	9,851	11,155	12,512	2.73	2.49	2.30	104	92,168
Manila, Philippines	14	9,584	9,880	11,342	12,846	3.04	2.76	2.49	188	50,978
Jakarta, Indonesia	15	9,275	9,588	11,151	12,804	3.32	3.02	2.76	76	122,033
London, United Kingdom	16	9,222	9,170	8,897	8,574	-0.57	-0.60	0.74	874	10,551
Tehran, Iran	17	8,915	9,354	11,681	14,251	4.81	4.44	3.98	112	79,594
Paris, France	18	8,693	8,709	8,764	8,803	0.18	0.13	0.09	432	20,123
Delhi, India	19	8,156	8,475	10,105	11,849	3.84	3.52	3.18	138	59,102
Essen, Germany	20	7,499	7,474	7,364	7,239	-0.34	-0.30	-0.34	704	10,653

See footnotes at end of table.

No. 1437. Population and Average Annual Rates of Growth for World's 94 Largest Cities: 1989 to 2000—Continued

[See headnote, page 835]

CITY AND COUNTRY	Rank	MIDYEAR POPULATION (1,000)				AVERAGE ANNUAL GROWTH RATE (percent)			Area (square miles)	Density 1989 (pop. per square mile)
		1989	1990	1995	2000	1989-1990	1990-1995	1995-2000		
Karachi, Pakistan	21	7,417	7,711	9,350	11,299	3.88	3.85	3.79	190	39,038
Lagos, Nigeria	22	7,264	7,602	9,799	12,528	4.55	5.08	4.91	56	129,705
Shanghai, China	23	6,837	6,873	7,194	7,540	0.52	0.81	0.94	78	87,659
Chicago, United States	24	6,523	6,526	6,541	6,568	0.05	0.05	0.08	762	8,560
Lima, Peru	25	6,335	6,578	7,853	9,241	3.77	3.54	3.26	120	52,791
Taipei, Taiwan	26	6,308	6,513	7,477	8,516	3.20	2.76	2.80	138	45,710
Istanbul, Turkey	27	6,230	6,461	7,624	8,875	3.63	3.31	3.04	165	37,760
Beijing, China	28	5,710	5,736	5,865	5,993	0.45	0.44	0.43	151	37,816
Bangkok, Thailand	29	5,623	5,791	6,657	7,587	2.95	2.79	2.62	102	55,126
Hong Kong, Hong Kong	30	5,607	5,656	5,841	5,956	0.87	0.84	0.82	20	280,350
Madras, India	31	5,582	5,743	6,550	7,384	2.84	2.63	2.40	115	48,541
Bogota, Colombia	32	5,501	5,710	6,801	7,935	3.72	3.50	3.08	79	69,638
Santiago, Chile	33	5,154	5,275	5,812	6,298	2.31	1.94	1.59	128	40,269
Tianjin, China	34	4,767	4,804	5,041	5,298	0.77	0.96	0.99	49	97,291
Milan, Italy	35	4,727	4,738	4,795	4,839	0.23	0.24	0.18	344	13,741
Nagoya, Japan	36	4,678	4,736	5,017	5,303	1.24	1.15	1.11	307	15,236
Pusan, South Korea	37	4,659	4,838	5,748	6,700	3.76	3.45	3.07	54	86,284
Leningrad, Soviet Union	38	4,653	4,667	4,694	4,738	0.30	0.12	0.19	139	33,474
Bangalore, India	39	4,410	4,612	5,644	6,764	4.49	4.04	3.62	50	88,191
Madrid, Spain	40	4,391	4,451	4,772	5,104	1.37	1.39	1.35	66	66,527
Shenyang, China	41	4,215	4,248	4,457	4,684	0.78	0.96	0.99	39	108,080
Barcelona, Spain	42	4,101	4,163	4,492	4,834	1.51	1.52	1.47	87	47,138
Lahore, Pakistan	43	4,101	4,236	4,866	5,864	3.24	3.28	3.24	57	71,949
Manchester, United Kingdom	44	4,069	4,050	3,949	3,827	-0.47	-0.50	-0.63	357	11,397
Dhaka, Bangladesh	45	4,016	4,224	5,296	6,492	5.04	4.52	4.07	32	125,511
Philadelphia, United States	46	4,011	4,007	3,988	3,979	-0.09	-0.10	-0.05	471	8,515
San Francisco, United States	47	3,924	3,958	4,104	4,214	0.87	0.72	0.53	428	9,167
Baghdad, Iraq	48	3,813	3,941	4,566	5,239	3.32	2.94	2.75	97	39,304
Ho Chi Minh City, Vietnam	49	3,562	3,645	4,064	4,481	2.29	2.18	1.95	31	114,914
Belo Horizonte, Brazil	50	3,549	3,683	4,373	5,125	3.71	3.43	3.17	79	44,922
Sydney, Australia	51	3,491	3,515	3,619	3,708	0.69	0.58	0.49	338	10,328
Ahmadabad, India	52	3,476	3,595	4,200	4,837	3.37	3.11	2.82	32	108,618
Hyderabad, India	53	3,448	3,563	4,149	4,765	3.29	3.05	2.77	88	39,180
Athens, Greece	54	3,423	3,468	3,670	3,866	1.29	1.13	1.04	116	29,511
Kinshasa, Zaire	55	3,403	3,575	4,520	5,646	4.93	4.69	4.45	57	59,704
Miami, United States	56	3,359	3,421	3,679	3,894	1.82	1.45	1.14	448	7,498
Guangzhou, China	57	3,313	3,330	3,485	3,652	0.50	0.91	0.94	79	41,942
Surabaya, Indonesia	58	3,155	3,205	3,428	3,632	1.58	1.35	1.16	43	73,368
Guadalajara, Mexico	59	3,148	3,262	3,839	4,451	3.55	3.25	2.96	78	40,364
Caracas, Venezuela	60	3,148	3,188	3,338	3,435	1.26	0.92	0.57	54	58,296
Wuhan, China	61	3,144	3,169	3,325	3,495	0.78	0.96	1.00	65	48,376
Toronto, Canada	62	3,080	3,108	3,296	3,296	0.89	1.17	-	154	20,001
Greater Berlin, Germany	63	3,024	3,022	3,018	3,006	-0.07	-0.03	-0.08	274	11,036
Detroit, United States	64	3,022	2,995	2,865	2,735	-0.90	-0.89	-0.93	468	6,457
Rome, Italy	65	3,005	3,021	3,079	3,129	0.52	0.38	0.32	69	43,556
Naples, Italy	66	2,940	2,960	3,051	3,134	0.67	0.61	0.54	62	47,424
Porto Alegre, Brazil	67	2,912	3,015	3,541	4,109	3.46	3.22	2.98	231	12,608
Melbourne, Australia	68	2,896	2,907	2,946	2,968	0.38	0.27	0.15	327	8,856
Montreal, Canada	69	2,882	2,896	2,996	3,071	0.48	0.68	0.49	164	17,572
Alexandria, Egypt	70	2,850	2,899	3,114	3,304	1.72	1.43	1.18	35	81,420
Casablanca, Morocco	71	2,807	2,891	3,327	3,795	2.95	2.81	2.63	35	80,202
Rangoon, Burma	72	2,760	2,813	3,075	3,332	1.90	1.78	1.61	47	58,724
Monterrey, Mexico	73	2,730	2,837	3,385	3,974	3.85	3.53	3.21	77	35,448
Kiev, Soviet Union	74	2,700	2,751	2,983	3,237	1.87	1.62	1.63	62	43,548
Dallas, United States	75	2,689	2,743	2,972	3,257	1.98	1.60	1.83	419	6,418
Ankara, Turkey	76	2,687	2,782	3,263	3,777	3.48	3.19	2.93	55	48,852
Singapore, Singapore	77	2,666	2,695	2,816	2,913	1.06	0.88	0.68	78	34,185
Harbin, China	78	2,598	2,618	2,747	2,887	0.78	0.96	0.99	30	86,591
Washington, United States	79	2,529	2,547	2,637	2,707	0.73	0.69	0.52	357	7,082
Taegu, South Korea	80	2,413	2,529	3,201	4,051	4.71	4.71	4.71	(NA)	(NA)
Lisbon, Portugal	81	2,366	2,396	2,551	2,717	1.26	1.26	1.26	(NA)	(NA)
Poona, India	82	2,351	2,447	2,987	3,647	3.99	3.99	3.99	(NA)	(NA)
Boston, United States	83	2,473	2,475	2,480	2,485	0.08	0.04	0.04	303	8,162
Chengdu, China	84	2,331	2,349	2,465	2,591	0.77	0.96	1.00	25	93,242
Tashkent, Soviet Union	85	2,313	2,365	2,640	2,947	2.20	2.20	2.20	(NA)	(NA)
Budapest, Hungary	86	2,300	2,301	2,313	2,335	0.04	0.10	0.19	138	16,666
Chongqing, China	87	2,284	2,339	2,632	2,961	2.36	2.36	2.36	(NA)	(NA)
Vienna, Austria	88	2,282	2,313	2,474	2,647	1.35	1.35	1.35	(NA)	(NA)
Houston, United States	89	2,258	2,298	2,456	2,651	1.74	1.33	1.53	310	7,284
Birmingham, United Kingdom	90	2,178	2,170	2,130	2,078	-0.37	-0.37	-0.49	223	9,768
Bucharest, Romania	91	2,139	2,150	2,214	2,271	0.52	0.59	0.51	52	41,132
Salvador, Brazil	92	2,123	2,209	2,694	3,286	3.97	3.97	3.97	(NA)	(NA)
Havana, Cuba	93	2,087	2,109	2,218	2,333	1.01	1.01	1.01	(NA)	(NA)
Kanpur, India	94	2,024	2,076	2,356	2,673	2.53	2.53	2.53	(NA)	(NA)

- Represents zero. NA Not available. ¹ Includes Windsor, Canada.

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

No. 1438. Percent Distribution of Households by Type, Selected Countries: 1960 to 1988

COUNTRY AND YEAR	Total	MARRIED-COUPLE ¹			Single parent ²	One-person	Other ³
		Total	With children ²	Without children ²			
United States:							
1960	100.0	74.3	44.2	30.1	4.4	13.1	8.2
1970	100.0	70.5	40.3	30.3	5.0	17.1	7.4
1980	100.0	60.8	30.9	29.9	7.5	22.7	9.0
1987	100.0	57.6	27.5	30.0	8.1	23.6	10.7
1988	100.0	56.9	27.0	29.9	8.0	24.0	11.1
Canada:							
1961	100.0	⁴ 78.0	⁴ 50.8	⁴ 26.7	⁴ 3.8	9.3	⁴ 8.9
1971	100.0	74.0	46.5	27.5	4.5	13.4	8.1
1981	100.0	66.8	36.3	30.5	5.3	20.3	7.6
1986	100.0	64.5	32.3	32.2	5.6	21.5	8.4
Japan:							
1960	100.0	65.3	49.4	15.9	3.1	17.2	14.4
1970	100.0	64.3	44.6	19.7	2.3	20.3	13.1
1980	100.0	68.4	42.9	25.6	2.2	19.8	9.6
1985	100.0	67.4	39.2	28.2	2.5	20.8	9.3
Denmark: ⁵							
1976	100.0	44.5	23.5	21.0	4.9	(NA)	(NA)
1983	100.0	43.7	22.6	21.1	5.4	(NA)	(NA)
1988	100.0	41.0	19.9	21.1	5.1	(NA)	(NA)
France:							
1968	100.0	70.1	43.6	26.5	4.2	20.3	5.4
1975	100.0	68.8	42.1	26.8	4.1	22.1	5.0
1982	100.0	67.0	39.7	27.2	4.3	24.6	4.1
1988	100.0	63.4	36.2	27.3	5.1	27.1	4.4
Netherlands:							
1961	100.0	77.6	55.4	22.3	5.7	11.9	4.8
1971	100.0	74.1	51.8	22.3	5.1	17.1	3.7
1981	100.0	66.5	43.7	22.9	6.1	21.4	6.0
1985	100.0	60.0	38.5	21.5	6.7	27.8	5.5
Sweden:							
1960	100.0	66.4	35.7	30.6	3.5	20.2	9.9
1970	100.0	64.3	30.2	34.1	3.2	25.3	7.2
1980	100.0	57.9	24.8	33.1	3.1	32.8	6.2
1985	100.0	54.8	21.7	33.1	3.2	36.1	5.9
United Kingdom: ⁶							
1961	100.0	73.7	37.8	36.0	2.3	11.9	12.1
1971	100.0	69.7	34.4	35.2	2.8	18.1	9.4
1981	100.0	64.3	30.5	33.7	4.7	21.8	9.2
1987	100.0	64.0	28.0	36.0	4.0	25.0	7.0
West Germany:							
1961	100.0	66.7	44.3	22.4	10.8	20.6	1.9
1970	100.0	64.8	41.7	23.1	6.2	26.5	2.5
1980	100.0	60.5	37.0	23.5	6.6	30.2	2.7
1988	100.0	54.3	31.4	22.9	6.7	34.9	4.1

NA Not available. ¹ May include unmarried cohabitating couples. Such couples are explicitly included under married couples in Canada (beginning in 1981) and France. For Sweden, beginning in 1980, all cohabitants are included as married couples, and the figures for 1970 have been adjusted to include all cohabitants. For Denmark, from 1983 onward, persons reported separately as living in consensual unions with joint children have been classified here as married couples. In other countries, some unmarried cohabitants are included as married couples, while some are classified under "other households", depending on responses to surveys and censuses. ² Children are defined as unmarried children living at home according to the following age limits: Under 18 years old in the United States, Canada, Japan, Denmark, and the United Kingdom, except that the United Kingdom includes 16- and 17-year-olds only if they are in full-time education; under 25 years old in France; under 18 years old in Sweden; and children of all ages in the Netherlands and West Germany. ³ Includes both family and nonfamily households not elsewhere classified. These households comprise, for example, siblings residing together, other households composed of relatives, and households made up of roommates. Some unmarried cohabitating couples may also be included in the "other" group. See footnote 1. ⁴ Estimated by the U.S. Bureau of Labor Statistics. ⁵ From family-based statistics. However, one person living alone constitutes a family in Denmark. In this respect, the Danish data are closer to household statistics. ⁶ Great Britain only (excludes Northern Ireland).

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, March 1990.

No. 1439. Marriage and Divorce Rates, Selected Countries: 1960 to 1988

COUNTRY	MARRIAGE RATE PER 1,000 POPULATION, AGES 15 TO 64						DIVORCE RATE PER 1,000 MARRIED WOMEN					
	1960	1970	1980	1985	1987	1988	1960	1970	1980	1986	1987	1988
United States ¹	14.1	17.0	15.9	15.0	15.0	14.7	9.2	14.9	22.6	21.2	20.8	(NA)
Canada	12.4	14.3	11.8	10.2	10.5	10.7	1.8	6.3	10.8	12.6	14.4	12.6
Denmark	12.2	11.5	7.9	9.0	9.1	9.3	5.9	7.6	11.2	12.8	12.7	13.1
France	11.3	12.4	9.7	7.3	7.2	7.4	2.8	3.3	8.3	8.5	8.4	8.4
Italy	11.7	11.3	8.7	7.5	7.8	7.9	(NA)	1.3	0.8	1.1	1.8	2.1
Japan	14.5	14.4	9.8	8.6	8.3	8.4	3.6	3.9	4.8	5.4	5.1	4.9
Netherlands	12.7	15.2	9.6	8.7	8.6	8.6	2.2	3.3	7.5	6.7	8.1	8.1
Sweden	10.2	8.2	7.1	7.2	7.6	8.1	5.0	6.6	11.4	11.7	11.4	11.4
United Kingdom	11.5	13.5	11.6	10.6	10.6	10.5	22.0	24.7	21.0	12.9	12.2	12.3
West Germany	13.9	11.5	8.9	8.7	8.9	9.3	3.6	5.1	6.1	6.3	6.8	(NA)

NA Not available. ¹ Beginning 1980, includes uncensored marriages registered in California. ² England and Wales only.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, March 1990, and unpublished data.

No. 1440. Births to Unmarried Women, Selected Countries: 1960 to 1988

[For U.S. figures, beginning 1980, marital status is inferred from a comparison of the child's and parents' surnames on the birth certificate for those States that do not report on marital status. No estimates are included for misstatements on birth records or failures to register births]

COUNTRY	1960		1970		1980		1988	
	Total live births (1,000)	Percent born to unmarried women	Total live births (1,000)	Percent born to unmarried women	Total live births (1,000)	Percent born to unmarried women	Total live births (1,000)	Percent born to unmarried women
United States	4,258	5.3	3,731	10.7	3,612	18.4	3,910	25.7
Canada	478.6	4.3	372.0	9.6	370.7	12.8	376.8	21.2
Denmark	76.1	7.8	70.8	11.0	57.3	33.2	58.8	44.7
France	819.8	6.1	850.4	6.8	800.4	11.4	771.3	26.3
Italy	910.2	2.4	901.5	2.2	640.4	4.3	568.3	5.8
Japan	1,624	1.2	1,932	0.9	1,616	0.8	1,322	1.0
Netherlands	239.1	1.3	238.9	2.1	181.3	4.1	186.6	10.2
Sweden	102.2	11.3	110.2	18.4	97.1	39.7	112.1	50.9
United Kingdom	918.3	5.2	903.9	8.0	753.7	11.5	787.6	25.1
West Germany	968.6	6.3	810.8	5.5	620.7	7.6	677.3	10.0

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, March 1990, and unpublished data.

No. 1441. 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—			Bronchitis, emphysema, asthma	Chronic liver disease and cirrhosis	Motor vehicle traffic accidents	Suicide and self-inflicted injury
				Lung, trachea, bronchus	Stomach	Female breast				
United States	1987	193.4	54.6	54.9	5.5	31.6	8.7	11.8	18.5	12.5
Australia	1987	210.0	81.7	38.7	8.7	29.2	15.2	8.5	16.3	14.0
Austria	1988	147.9	111.1	34.8	18.8	32.0	17.2	24.1	17.6	22.6
Belgium	1986	110.4	89.0	55.5	13.8	38.1	26.3	12.6	19.6	21.0
Bulgaria	1987	227.2	231.5	32.0	23.9	19.7	20.0	16.4	12.2	16.0
Canada	1987	188.1	54.8	52.2	9.0	34.4	8.8	9.4	15.6	13.9
Czechoslovakia	1988	268.5	176.1	52.5	20.8	28.4	25.4	20.6	10.6	18.1
Denmark	1987	232.8	70.1	53.4	9.9	40.3	35.5	13.2	12.4	26.8
Finland	1987	255.9	106.5	36.9	16.6	23.7	18.1	8.6	10.3	26.7
France	1987	69.8	67.7	33.7	10.0	27.5	10.3	20.0	16.1	20.9
Hungary	1988	235.6	173.2	55.7	24.8	31.1	36.0	42.4	16.6	39.9
Italy	1986	101.9	110.9	42.5	21.4	28.6	28.2	27.5	15.2	7.6
Japan	1988	40.3	103.1	26.2	38.0	8.4	11.4	13.6	10.7	18.1
Netherlands	1987	148.6	67.0	55.5	14.8	39.0	17.5	5.4	9.0	10.8
New Zealand	1986	249.3	93.4	43.6	11.5	35.4	21.2	4.0	21.8	13.1
Norway	1987	204.7	86.6	27.1	13.4	26.6	14.2	7.4	8.8	15.4
Poland	1988	111.8	73.2	49.5	23.0	21.7	26.5	11.4	14.9	13.0
Portugal	1988	78.6	210.3	18.9	26.0	23.3	13.0	27.7	26.9	7.9
Spain	1985	78.3	114.4	28.8	17.6	21.0	13.4	22.1	14.5	6.6
Sweden	1987	213.7	68.8	23.5	10.6	25.1	12.5	6.4	8.4	17.3
Switzerland	1988	111.4	60.6	37.0	10.9	35.0	17.5	10.8	13.3	20.7
United Kingdom										
England and Wales	1988	223.5	92.1	55.5	14.0	41.7	16.3	5.2	8.1	8.0
Scotland	1988	279.1	118.5	68.1	14.9	38.3	11.1	8.3	10.3	11.4
West Germany	1988	155.6	91.2	35.8	17.2	33.5	22.3	19.8	11.6	15.5

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

Source: World Health Organization, Geneva, Switzerland, 1989 *World Health Statistics Annual*.

No. 1442. 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, 1987	Australia, 1987	Austria, 1988	Canada, 1987	Denmark, 1987	France, 1987	Italy, 1986	Japan, 1988	Netherlands, 1987	Poland, 1988	Sweden, 1987	United Kingdom, 1988	West Germany, 1988
MALE													
Total ³	20.5	21.8	36.6	22.1	36.1	31.7	11.8	23.8	13.7	20.5	26.0	13.0	25.0
15-24 yrs. old	21.3	24.4	27.2	25.5	16.5	14.7	4.9	10.4	9.2	14.5	16.9	12.3	15.8
25-34 yrs. old	24.8	28.8	38.6	30.9	36.1	32.5	9.4	21.9	15.3	28.9	30.0	16.4	22.7
35-44 yrs. old	22.8	27.9	42.2	25.6	49.6	38.5	10.6	26.6	16.1	30.6	30.2	18.4	24.4
45-54 yrs. old	23.8	27.7	48.1	30.2	59.1	44.3	15.1	41.2	18.0	36.5	41.9	15.8	33.0
55-64 yrs. old	26.6	29.7	47.6	26.4	57.3	43.9	19.3	37.8	18.5	30.7	29.7	16.0	35.5
65-74 yrs. old	34.8	28.7	58.6	31.0	49.0	54.9	29.3	39.2	26.3	29.0	39.4	15.9	41.3
75 yrs. old and over	59.0	45.3	107.5	28.6	72.9	113.4	49.4	72.2	41.8	31.6	50.2	24.0	77.8
FEMALE													
Total ³	5.2	5.7	13.3	6.2	19.9	12.5	4.7	13.7	8.4	4.3	10.9	4.6	10.8
15-24 yrs. old	4.3	6.0	4.7	5.0	8.3	4.1	1.6	6.5	3.6	2.4	5.6	2.7	4.7
25-34 yrs. old	5.9	6.1	10.3	7.7	12.3	9.8	2.4	9.3	9.4	5.0	10.3	4.1	7.7
35-44 yrs. old	7.2	7.5	13.8	9.0	24.7	14.2	4.6	10.4	9.5	5.8	14.8	5.4	9.5
45-54 yrs. old	8.5	8.6	16.5	10.0	34.2	19.4	6.0	16.6	13.7	7.6	20.1	6.5	13.6
55-64 yrs. old	7.7	8.7	22.5	8.2	39.2	19.3	8.5	19.3	14.2	7.3	13.2	6.9	14.6
65-74 yrs. old	7.2	9.4	22.9	7.6	32.6	23.5	11.2	30.6	14.5	7.1	12.6	8.4	19.5
75 yrs. old and over	6.4	7.4	29.7	6.9	28.2	26.9	12.1	54.9	13.2	6.9	18.3	8.0	24.1

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, 1989 *World Health Statistics Annual*.

No. 1443. Health Expenditures—Selected Countries: 1980 to 1988

[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				PUBLIC HEALTH EXPENDITURES			
	Percent of G.D.P.			Per capita, 1988 on basis of G.D.P. purchasing power parities	1987		1988	
	1980	1987	1988		Percent of gross domestic product	Percent of total health expenditures	Percent of gross domestic product	Percent of total health expenditures ¹
United States	9.3	10.9	11.2	2,123	4.7	42.6	4.7	42.1
Australia	6.5	7.2	7.0	990	5.1	70.5	4.9	70.5
Austria	7.9	8.4	8.4	1,053	5.6	67.1	5.7	67.4
Belgium	6.2	7.1	7.3	919	6.3	89.1	6.5	89.1
Canada	7.4	8.8	8.5	1,554	6.5	74.2	6.3	74.6
Denmark	6.8	6.4	6.2	850	5.4	84.5	5.3	84.9
Finland	6.5	7.4	7.2	998	5.8	78.7	5.7	78.6
France	7.6	8.6	8.7	1,178	6.4	75.1	6.4	74.2
Germany	8.5	8.6	8.6	1,212	6.3	73.6	6.3	73.6
Greece	4.3	5.2	5.7	388	4.0	79.3	4.6	79.6
Iceland	6.4	7.9	8.5	1,344	6.9	87.3	7.4	89.6
Ireland	9.0	8.1	7.9	645	6.6	81.2	6.5	81.8
Italy	6.7	7.2	7.3	955	5.7	79.2	5.8	78.8
Japan	6.4	6.8	6.7	978	4.9	72.7	5.0	73.5
Luxembourg	6.8	7.5	7.3	1,132	6.8	91.6	6.7	91.5
Netherlands	8.2	8.5	8.4	1,071	6.3	74.5	6.2	73.6
New Zealand	7.2	7.3	7.4	815	6.2	84.7	6.3	84.7
Norway	6.6	7.5	7.4	1,211	7.3	97.5	6.9	93.5
Portugal	5.9	6.4	6.5	438	3.9	60.7	3.9	60.8
Spain	5.6	5.8	6.1	568	4.5	78.3	4.8	79.2
Sweden	9.5	9.0	9.0	1,328	8.2	90.8	8.1	90.4
Switzerland	7.3	7.8	7.9	1,301	5.3	68.5	5.4	68.2
Turkey	4.1	3.5	(NA)	(NA)	1.4	41.3	(NA)	(NA)
United Kingdom	5.8	6.1	5.9	795	5.2	86.0	5.1	86.1

NA Not available. ¹ Preliminary estimates.

Source: Organization for Economic Cooperation and Development, Paris, France, *Health OECD: Facts and Trends, 1990*.

No. 1444. Enrollment and Expenditures for K-12 and Higher Education: 1985

[Data for public expenditures except where noted. Enrollment includes students in public and private schools. K-12 represents preprimary, primary, and secondary education]

COUNTRY	ENROLLMENT, PERCENT OF TOTAL POPULATION		EXPENDITURES, PERCENT OF GROSS DOMESTIC PRODUCT ¹			EXPENDITURES PER PUPIL, K-12, BASED ON 1985 OECD PPP ²
	K-12	Higher education	All levels	K-12	Higher education	
United States ³	19.7	5.1	6.2	3.8	2.5	3,314
Australia	18.9	2.3	5.0	3.1	1.5	1,983
Austria	15.8	2.3	5.2	3.6	0.9	2,497
Belgium	19.7	2.5	5.8	4.1	1.0	2,234
Canada	19.4	4.9	6.3	4.0	1.8	3,192
Denmark ⁴	18.3	2.3	6.8	4.3	1.4	3,123
France	21.8	2.3	5.5	3.9	0.7	2,032
Ireland	25.6	2.0	5.6	4.4	1.0	1,161
Italy	19.5	2.0	5.2	3.3	0.5	(NA)
Japan ⁵	20.0	1.9	4.8	3.1	1.0	1,805
Netherlands	20.2	62.7	6.0	3.5	1.6	1,956
New Zealand	22.9	2.9	4.1	2.8	1.2	1,282
Norway	19.8	2.3	5.6	4.1	0.8	2,900
Sweden	18.0	2.2	7.2	4.9	0.9	3,214
Switzerland	14.2	1.7	4.7	3.6	0.8	3,683
United Kingdom	16.8	1.8	4.8	2.3	0.9	2,251
West Germany	18.0	2.5	4.1	2.2	0.9	2,253

NA Not available. ¹ Gross domestic product data from Statistical Office of the United Nations, New York, New York, *Statistical Yearbook* (copyright). ² U.S. data from U.S. National Center for Education Statistics, *Digest of Education Statistics, 1989*. Based on OECD's 1985 Purchasing Power Parities Index. See headnote, table 1448. ³ Data for public and private expenditures. ⁴ 1986 data. ⁵ 1983 data. ⁶ 1984 data.

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

No. 1445. Organization for Economic Cooperation and Development (OECD)—Gross National Product: 1980 to 1989

[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 1989 was only 68 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 (per cent)
	Total in constant (1989) dollars (bil.)			Annual percent change		In constant (1989) dollars			Annual percent change		
	1980	1985	1989	1980- 1989	1988- 1989	1980	1985	1989	1980- 1989	1988- 1989	
United States	4,018.3	4,570.3	5,234.0	3.0	3.0	17,643	19,100	21,040	2.0	2.0	4.1
OECD Europe ³	4,567.0	4,941.0	5,594.7	2.3	3.6	11,599	12,268	13,485	1.7	2.5	5.6
Belgium	126.8	132.0	149.4	1.8	4.5	12,873	13,387	15,045	1.7	4.0	3.8
Denmark	85.6	97.5	100.9	1.8	1.4	16,719	19,080	19,669	1.8	1.4	4.0
France	783.9	845.2	942.1	2.1	3.4	14,549	15,320	16,775	1.6	2.9	3.4
Greece	47.5	50.8	54.4	1.5	2.3	4,927	5,116	5,424	1.1	2.1	14.9
Ireland	24.8	25.7	28.4	1.5	4.4	7,294	7,260	8,091	1.2	5.3	4.4
Italy	697.4	754.8	855.3	2.3	3.3	12,359	13,212	14,870	2.1	3.2	6.3
Luxembourg	4.9	5.6	6.6	3.5	4.2	13,611	15,135	17,838	3.1	4.2	3.4
Netherlands	193.8	203.8	225.3	1.7	4.2	13,706	14,075	15,192	1.1	3.7	0.8
Portugal	35.1	37.0	44.0	2.5	4.8	3,593	3,642	4,202	1.7	2.9	12.8
Spain	290.6	311.1	373.5	2.8	4.9	7,741	8,081	9,624	2.4	4.8	6.9
United Kingdom	643.7	710.3	819.7	2.7	2.3	11,427	12,545	14,330	2.5	2.1	6.7
West Germany	1,013.1	1,075.9	1,209.5	2.0	4.3	16,462	17,632	19,511	1.9	3.3	2.5
Austria	105.5	112.8	126.2	2.0	4.2	13,974	14,921	16,562	1.9	3.9	2.5
Finland	84.4	97.5	113.9	3.4	4.6	17,657	19,898	22,984	3.0	4.4	6.8
Iceland	4.1	4.5	5.1	2.4	-2.7	17,826	18,750	20,320	1.5	-2.7	20.0
Norway	65.8	77.5	90.4	3.6	5.8	16,088	18,675	21,371	3.2	5.2	1.8
Sweden	152.9	167.3	183.6	2.1	2.1	18,400	20,036	21,625	1.8	1.5	7.4
Switzerland	153.2	164.2	183.2	2.0	3.0	24,241	25,379	27,632	1.5	2.5	3.4
Turkey	53.9	67.5	83.2	4.8	1.3	1,212	1,370	1,468	2.1	-2.1	69.3
Australia	212.3	247.8	284.0	3.2	4.1	14,442	15,693	16,895	1.7	2.4	7.8
Canada	394.2	454.1	528.6	3.3	2.9	16,398	17,906	20,137	2.3	1.6	4.8
Japan	1,952.0	2,374.5	2,817.5	4.2	4.8	16,711	19,650	22,884	3.5	4.4	1.5
New Zealand	33.0	39.4	39.3	2.0	2.2	10,611	12,123	11,893	1.3	1.7	5.9

¹ National currency values converted into dollars by the average 1989 Market Rate, as published by the International Monetary Fund, Washington, DC. ² GNP or GDP (Gross Domestic Product) implicit price deflators; totals weighted by 1988 (base year) GNP. ³ See text, section 31.

Source: U.S. Department of State, Bureau of Intelligence and Research, *Economic Growth of OECD Countries, 1979-1989*, Report No. IRR 220 (Revised), 1990, and unpublished data.

No. 1446. Gross National Product in Current and Constant (1988) Dollars and Per Capita: 1980 to 1988

(In billions of dollars, except per capita. For explanation of conversion to U.S. dollars, see headnote, table 1489. For explanation of gross national product (GNP), see text, section 14)

COUNTRY	CURRENT DOLLARS				CONSTANT (1988) DOLLARS				Per capita (dol.)		
	1980	1985	1987	1988	1980	1985	1987	1988	1980	1985	1988
United States	2,732.0	4,015.0	4,524.0	4,881.0	3,865.0	4,389.0	4,674.0	4,881.0	16,970	18,340	19,840
Afghanistan	2.9	13.1	12.9	13.1	4.1	13.4	13.0	13.1	278	246	214
Algeria	30.2	49.0	52.0	52.3	42.8	53.5	53.7	52.3	2,270	2,427	2,160
Argentina	76.3	84.4	97.8	87.3	108.0	92.2	101.1	97.3	3,824	3,038	3,087
Austria	78.0	108.9	118.1	123.7	110.3	119.0	122.0	123.7	14,620	15,750	16,330
Bangladesh	10.1	15.6	18.0	18.0	14.3	17.1	18.6	19.0	162	168	172
Belgium	95.4	128.0	141.8	149.3	135.0	140.0	146.5	149.3	13,710	14,200	15,110
Brazil	217.8	300.9	361.8	372.6	308.2	326.9	373.7	372.6	2,502	2,349	2,473
Bulgaria	34.9	47.0	51.7	53.8	48.3	51.4	53.4	53.8	5,576	5,743	6,004
Burma	5.1	9.9	10.6	11.0	8.6	10.8	11.0	11.0	255	291	278
Canada	260.6	384.8	439.7	471.8	368.7	420.6	454.2	471.8	15,320	16,570	18,090
Chile	12.7	15.3	18.5	20.3	17.9	16.8	19.1	20.3	1,613	1,389	1,609
China:											
Mainland ¹	180.6	377.1	475.0	545.6	255.5	412.2	490.7	545.6	260	394	501
Taiwan	46.0	81.7	107.9	119.4	65.1	89.3	111.5	119.4	3,659	4,632	5,968
Colombia	21.0	29.4	34.3	36.6	29.7	32.2	35.5	36.6	1,119	1,094	1,168
Czechoslovakia	87.7	120.5	131.6	138.4	124.0	131.7	136.0	138.4	8,129	8,494	8,862
East Germany	115.0	163.5	178.6	186.5	162.7	178.7	184.5	186.5	9,720	10,740	11,240
Egypt	35.6	61.8	69.9	77.6	50.4	67.6	72.2	77.6	1,193	1,376	1,455
Ethiopia	3.4	4.2	5.3	5.5	4.7	4.6	5.4	5.5	123	106	114
France	573.5	790.8	872.8	920.0	811.4	864.4	901.6	920.0	15,060	15,670	16,490
Ghana	3.1	3.9	4.6	5.0	4.4	4.3	4.7	5.0	407	330	349
Greece	34.5	46.3	49.1	52.3	48.8	50.6	50.8	52.3	5,064	5,089	5,225
Hungary	46.7	62.5	68.1	71.8	66.1	68.3	70.3	71.8	6,174	6,417	6,780
India	122.2	208.3	240.0	268.7	173.0	227.7	247.9	268.7	251	297	329
Indonesia	38.4	62.4	70.5	76.2	54.4	68.2	72.8	76.2	351	394	414
Iran	221.1	311.8	301.6	318.4	312.9	340.9	311.6	318.4	7,988	7,252	6,132
Iraq	88.1	61.7	64.0	65.8	124.6	67.4	66.1	65.8	9,441	4,267	3,742
Italy	479.6	669.4	752.4	796.5	678.5	731.7	777.3	796.5	12,020	12,810	13,860
Japan	1,470.0	2,314.0	2,616.0	2,856.0	2,080.0	2,530.0	2,702.0	2,856.0	17,810	20,950	23,290
Kenya	4.2	6.3	7.6	8.3	6.0	6.9	7.8	8.3	358	336	354
Madagascar	1.3	1.5	1.6	1.7	1.9	1.7	1.7	1.7	217	168	156
Malaysia	16.1	25.7	29.3	32.3	22.8	28.1	30.3	32.3	1,659	1,825	1,972
Mexico	112.2	157.5	166.7	173.4	158.7	172.2	172.2	173.4	2,264	2,191	2,076
Morocco	10.0	14.4	16.6	18.8	14.1	15.8	17.1	18.8	687	680	753
Mozambique	1.0	1.0	0.9	1.0	1.4	1.1	0.9	1.0	117	77	68
Nepal	1.5	2.5	2.8	3.2	2.1	2.7	2.9	3.2	143	162	173
Netherlands	142.5	194.1	214.9	225.5	201.5	212.2	221.9	225.5	14,250	14,640	15,320
Nigeria	21.4	25.4	26.8	28.7	30.2	27.7	27.7	28.7	335	270	256
North Korea	21.9	26.3	28.2	29.2	31.0	28.8	29.1	29.2	1,732	1,410	1,328
Pakistan	15.6	27.8	32.9	36.4	22.0	30.4	34.0	36.4	258	307	338
Peru	26.5	33.1	42.5	39.3	37.5	36.2	43.9	39.3	2,168	1,836	1,846
Philippines	26.1	32.1	36.6	40.4	37.0	35.1	37.8	40.4	727	602	639
Poland	120.2	160.5	171.2	179.7	170.1	175.5	176.9	179.7	4,780	4,716	4,734
Portugal	24.0	31.8	37.8	40.6	34.0	34.7	39.1	40.6	3,474	3,419	3,906
Romania	75.8	102.9	111.9	117.7	107.3	112.5	115.6	117.7	4,832	4,949	5,107
South Africa	50.2	71.3	78.0	84.1	71.0	78.0	80.6	84.1	2,437	2,379	2,397
South Korea	58.9	111.1	146.7	168.0	83.3	121.4	151.5	168.9	2,184	2,958	3,950
Soviet Union	1,532.0	2,145.0	2,393.0	2,526.0	2,167.0	2,345.0	2,472.0	2,526.0	8,136	8,408	8,819
Spain	193.2	266.8	307.6	330.1	273.3	291.7	317.7	330.1	7,291	7,555	8,418
Sri Lanka	3.5	5.8	6.5	6.9	5.0	6.4	6.7	6.9	335	399	415
Sudan	5.5	6.4	7.3	7.4	7.8	7.0	7.5	7.4	412	310	306
Sweden	107.5	149.3	165.9	175.3	152.1	163.2	171.3	175.3	18,300	19,540	20,880
Switzerland	115.7	163.1	180.3	188.9	163.7	178.3	186.3	188.9	25,640	27,300	28,660
Syria	9.3	13.6	12.9	14.8	13.1	14.9	13.3	14.8	1,512	1,435	1,275
Tanzania	1.8	2.4	2.7	2.9	2.6	2.7	2.8	2.9	137	120	118
Thailand	24.3	41.0	49.0	56.3	34.3	44.8	50.7	56.3	731	866	1,031
Turkey	32.2	52.3	64.1	68.4	45.5	57.2	66.2	68.4	1,008	1,128	1,263
Uganda	2.6	4.0	4.2	4.5	3.7	4.3	4.3	4.5	291	294	271
United Kingdom	459.1	657.3	749.7	801.6	649.5	718.5	774.5	801.6	11,530	12,690	14,080
Venezuela	40.8	47.7	55.7	60.0	57.7	52.1	57.6	60.0	3,837	3,007	3,198
West Germany	748.0	1,029.0	1,133.0	1,213.0	1,058.0	1,124.0	1,171.0	1,213.0	17,190	18,430	19,900
Yugoslavia	42.2	55.4	60.3	61.2	59.8	60.6	62.3	61.2	2,679	2,621	2,596
Zaire	3.8	4.9	5.5	5.9	5.4	5.3	5.7	5.9	202	174	178

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. Annual Growth Rates of Real Gross Domestic Product—International Comparisons, Selected Periods: 1960 to 1988

[In percent. Minus sign (-) indicates decline. See also *Historical Statistics, Colonial Times to 1970*, series F 10-16]

COUNTRY	1960-87	1970-80	1979-80	1980-88	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
United States	3.3	2.7	-0.1	3.2	2.3	-2.6	3.9	7.2	3.8	3.2	3.6	4.5
Per capita	2.1	1.7	-1.3	2.2	1.2	-3.6	2.9	6.2	2.8	2.2	2.7	3.5
Canada	4.4	4.6	1.5	3.4	3.7	-3.2	3.2	6.4	4.7	3.1	4.5	5.0
Per capita	3.1	3.3	0.2	2.4	2.4	-4.2	2.4	5.5	4.0	2.3	3.3	3.8
France	3.7	3.3	1.6	1.9	1.2	2.5	0.7	1.3	1.9	2.3	1.9	3.5
Per capita	3.0	2.7	1.1	1.5	0.6	2.0	0.2	0.9	1.5	1.9	1.5	3.1
Germany	3.1	2.7	1.4	1.7	0.2	-0.6	1.5	2.8	2.0	2.3	1.8	3.7
Per capita	2.7	2.5	1.0	1.7	-	-0.6	1.9	3.2	2.2	2.3	1.8	3.2
Italy	4.0	3.8	4.2	2.2	1.0	0.3	1.1	3.0	2.6	2.5	3.0	3.9
Per capita	3.5	3.3	4.0	2.0	0.8	0.1	0.8	2.7	2.4	2.4	2.8	3.7
Japan	6.5	4.6	4.4	4.0	3.9	2.8	3.2	5.0	4.7	2.5	4.4	5.7
Per capita	5.5	3.4	3.6	3.4	3.1	2.1	2.5	4.3	4.1	1.8	3.9	5.3
United Kingdom	2.5	1.9	-2.2	2.8	-1.3	1.7	3.6	2.1	3.7	3.5	4.7	4.1
Per capita	2.2	1.8	-2.4	2.6	-1.4	1.8	3.5	1.9	3.4	3.2	4.4	3.8

- Represents zero.

Source: Organization for Economic Cooperation and Development, Paris, France, *National Accounts, 1960-1988*.

No. 1448. Gross Domestic Product of Selected Countries as Percent of United States: 1970 to 1988

[Comparisons are based on constant (1985) price data converted to U.S. dollars using 1985 exchange rates]

COUNTRY	GROSS DOMESTIC PRODUCT								PER CAPITA GROSS DOMESTIC PRODUCT							
	1970	1975	1980	1984	1985	1986	1987	1988	1970	1975	1980	1984	1985	1986	1987	1988
United States	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Canada	7	8	9	9	9	9	9	9	70	80	83	82	83	83	84	84
France	13	14	14	13	13	13	13	13	54	58	60	58	57	57	56	56
Germany	17	17	17	16	16	16	15	15	58	59	63	62	61	62	61	61
Italy	10	11	11	11	11	11	11	11	39	41	46	45	45	45	45	45
Japan	26	29	32	33	33	33	34	34	52	57	62	65	66	66	67	68
United Kingdom	13	13	12	11	11	11	12	12	48	49	48	48	48	49	50	50

Source: Organization for Economic Cooperation and Development, Paris, France, *National Accounts, 1960-1988*.

No. 1449. Selected International Economic Indicators: 1970 to 1989

[Data cover gross national product (GNP) at market prices, except for France, Italy, and the United Kingdom, which relate to gross domestic product. Gross fixed capital formation covers private and government sectors except military. Savings data are calculated by deducting outlays—such as personal consumption expenditures, interest paid, and transfer payments to foreigners—from disposable personal income. Minus sign (-) indicates decline]

YEAR	United States	France	West Germany	Italy	Netherlands	United Kingdom	Japan	Canada
GNP growth rates ¹ (constant 1982 prices):								
1970	-0.3	5.7	-0.5	5.3	5.4	2.3	10.8	2.5
1980	-0.2	1.6	1.5	4.2	0.8	-2.2	4.3	1.5
1984	6.8	1.3	3.3	3.0	3.2	2.1	5.1	6.1
1985	3.4	1.9	1.9	2.6	2.6	3.6	4.9	4.8
1986	2.7	2.5	2.3	2.5	2.0	3.9	2.5	3.1
1987	3.4	2.2	1.6	3.0	1.1	4.7	4.6	4.4
1988	4.5	3.8	3.7	4.2	2.8	4.6	5.7	4.2
1989	2.5	3.6	3.9	3.2	3.5	2.2	4.9	2.7
Ratio of gross fixed capital formation to GNP (current prices):								
1970	17.7	24.3	25.4	24.5	27.2	18.7	35.6	21.7
1980	19.0	23.0	22.6	24.2	21.1	18.0	31.6	23.9
1984	18.0	19.3	20.0	21.2	18.6	16.7	27.9	19.6
1985	18.1	19.3	19.6	20.8	19.2	16.9	27.7	20.3
1986	17.8	19.2	19.4	19.9	20.1	16.7	27.5	20.7
1987	17.3	19.5	19.4	20.1	20.2	17.4	28.7	21.5
1988	17.1	20.3	19.8	20.0	21.3	18.9	30.4	22.5
1989	16.7	20.8	20.6	20.2	21.9	19.4	31.9	22.8
Ratio of savings to disposable personal income:								
1970	8.1	18.7	14.7	30.3	13.2	9.0	18.2	5.5
1980	7.1	17.6	14.1	30.5	11.0	13.1	17.9	13.3
1984	6.1	14.5	12.8	25.5	13.1	10.5	16.0	14.8
1985	4.4	14.0	12.7	24.7	12.7	9.7	16.0	13.1
1986	4.1	12.9	13.5	23.7	13.1	8.2	16.4	10.5
1987	2.9	11.1	13.6	22.3	12.1	6.6	15.1	9.2
1988	4.2	12.1	13.9	22.8	12.5	5.4	14.8	9.9
1989	4.6	12.3	13.5	(NA)	13.4	6.7	(NA)	10.8

NA Not available. ¹ Growth rates represent percentage change from preceding year.

Source: U.S. Dept. of Commerce, International Trade Administration, Office of Finance, Industry, and Trade Information, based on official statistics of listed countries.

No. 1450. Gross Domestic Product, Total and Per Capita, Using Purchasing Power Parities—Selected Countries: 1970 to 1988

[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	1987	1988	1970	1975	1980	1985	1987	1988
United States	1,009.2	1,583.9	2,688.5	3,967.5	4,463.2	4,617.8	4,922	7,334	11,804	16,581	18,297	19,558
OECD Europe	1,041.7	1,700.5	2,859.0	3,980.2	4,453.4	4,766.0	2,825	4,440	7,266	9,857	10,915	11,609
Belgium	28.5	47.4	79.7	106.1	116.0	124.8	2,952	4,844	8,094	10,768	11,751	12,623
Denmark	16.9	26.3	43.0	62.8	67.8	69.7	3,439	5,188	8,389	12,279	13,217	13,555
France	166.2	277.1	467.8	646.6	711.6	760.0	3,274	5,259	8,683	11,720	12,791	13,603
Germany	205.0	319.1	544.1	738.7	812.4	869.1	3,380	5,161	8,838	12,105	13,298	14,161
Greece	13.5	24.3	43.6	59.7	63.5	68.1	1,540	2,690	4,522	6,010	6,347	6,799
Ireland	5.2	9.4	16.9	24.4	26.9	28.8	1,777	2,947	4,977	6,901	7,608	8,146
Italy	152.8	246.3	449.8	624.2	695.6	745.9	2,848	4,443	7,973	10,927	12,133	12,985
Luxembourg	1.2	2.0	3.3	4.8	5.4	5.8	3,676	5,645	9,012	13,003	14,534	15,558
Netherlands	45.1	74.1	122.0	164.3	178.7	189.5	3,456	5,424	8,624	11,339	12,183	12,832
Portugal	12.3	21.4	39.7	53.2	61.5	66.0	1,458	2,451	4,277	5,516	6,309	6,750
Spain	74.6	135.1	213.2	292.5	336.5	364.3	2,203	3,803	5,702	7,597	8,665	9,343
United Kingdom	180.1	279.1	442.2	624.0	713.5	766.6	3,236	4,964	7,852	11,020	12,533	13,428
Austria	20.4	34.8	59.4	81.2	88.4	95.0	2,735	4,591	7,865	10,748	11,667	12,506
Finland	13.2	22.6	37.9	56.1	62.9	68.2	2,861	4,802	7,938	11,447	12,746	13,792
Iceland	0.6	1.1	2.3	3.2	3.9	4.0	2,894	5,192	9,892	13,101	15,866	16,068
Norway	11.9	20.9	38.4	58.0	65.9	68.7	3,063	5,227	9,390	13,963	15,749	16,322
Sweden	30.5	48.7	75.8	106.3	118.0	124.6	3,794	5,947	9,115	12,727	14,055	14,772
Switzerland	29.9	43.7	68.8	94.3	104.4	111.2	4,772	6,832	10,778	14,440	15,775	16,700
Turkey	33.6	66.9	111.0	179.7	220.6	235.8	945	1,658	2,482	3,547	4,171	4,353
Australia	43.4	73.9	123.5	184.4	207.4	221.8	3,389	5,319	8,402	11,682	12,750	13,412
Canada	82.7	149.9	262.9	388.8	441.8	478.7	3,880	6,596	10,924	15,440	17,222	18,446
Japan	286.8	498.0	918.0	1,425.4	1,606.3	1,751.9	2,765	4,466	7,859	11,805	13,157	14,288
New Zealand	9.3	16.1	22.6	33.1	35.3	36.7	3,303	5,216	7,180	10,126	10,679	11,028

¹ See text, section 31.

Source: Organization for Economic Cooperation and Development, Paris, France, *National Accounts of OECD Countries*, vol. I, annual.

No. 1451. Food and Beverage Expenditures as a Percent of Total Private Consumption Expenditures—Selected Countries: 1987

Country	Total	Food	Nonalcoholic beverages	Alcoholic beverages	Country	Total	Food	Nonalcoholic beverages	Alcoholic beverages
United States	12.2	10.3	0.6	1.3	Mexico ²	35.3	31.9	1.2	2.2
Australia	20.0	15.0	0.3	4.7	Netherlands	16.5	14.2	0.5	1.8
Austria	20.6	17.4	0.7	2.5	Norway	22.4	18.1	1.2	3.1
Belgium	21.8	17.7	1.2	2.9	Philippines	53.8	51.3	0.8	1.7
Canada	14.9	11.3	0.6	3.0	Portugal	36.6	34.3	0.3	2.0
Denmark	19.7	15.7	0.6	3.4	South Africa	34.1	28.5	1.4	4.2
Finland	22.7	18.2	0.5	4.0	South Korea	40.3	36.1	0.9	3.3
France	18.9	16.4	0.5	2.0	Soviet Union	38.0	28.0	(NA)	10.0
Greece	37.0	33.2	1.0	2.8	Spain	26.6	25.1	0.4	1.1
India	53.8	52.6	1.4	1.1	Sweden	20.8	17.0	0.5	3.3
Ireland	37.1	23.8	1.4	11.9	Switzerland	25.1	19.9	1.2	4.0
Israel	26.3	23.4	2.3	0.6	United Kingdom	15.2	12.8	0.6	1.8
Italy	22.0	20.5	0.3	1.2	West Germany	20.3	16.6	0.6	3.1
Japan	19.8	18.0	0.6	1.2					

NA Not available. ¹ Data for 1986. ² Data for 1984.

Source: U.S. Dept. of Agriculture, Economic Research Service. Based on data from the United Nations, New York, NY, *National Accounts Statistics*, annual; and various country yearbooks.

No. 1452. Per Capita Consumption of Pork, Poultry, Beef, and Veal: 1990

[Preliminary. In pounds per capita. Beef, veal, and pork quantities are as of September and in carcass-weight equivalents; poultry quantities are as of July and are on ready-to-cook basis]

PORK			POULTRY			BEEF AND VEAL		
COUNTRY	Quantity	Rank	COUNTRY	Quantity	Rank	COUNTRY	Quantity	Rank
Hungary	168.7	1	United States	91.9	1	Argentina	143.3	1
Denmark	147.7	2	Singapore	81.8	2	Uruguay	127.0	2
Czechoslovakia	130.3	3	Israel	77.6	3	United States	97.2	3
East Germany	121.7	4	Hong Kong	70.8	4	Australia	88.9	4
Austria	116.0	5	Canada	61.5	5	Canada	86.2	5
West Germany	109.8	6	Saudi Arabia	56.0	6	New Zealand	79.6	6
Belgium-Luxembourg	105.0	7	Australia	54.0	7	U.S.S.R.	67.7	7
Poland	103.2	8	China: Taiwan	53.8	8	Czechoslovakia	65.7	8
Bulgaria	103.0	9	Hungary	51.2	9	France	63.7	9
Spain	100.5	10	Spain	50.3	10	Italy	58.9	10
Netherlands	99.0	11	Portugal	45.9	11	Switzerland	55.6	11
Hong Kong	94.2	12	France	45.0	12	Greece	54.5	12
Switzerland	90.2	13	United Kingdom	42.3	13	Panama	51.8	13
China: Taiwan	85.8	14	Italy	41.0	14	West Germany	50.3	14
France	82.2	15	Ireland	40.4	15	Colombia	49.6	15
United States	63.9	25						

Source: U.S. Department of Agriculture, Foreign Agricultural Service, *World Poultry Situation*, August 1990, and *World Livestock Situation*, October 1990.

No. 1453. Percent of Households Owning Selected Appliances—Selected Countries: 1988

APPLIANCE	United States ^{1,2}	Belgium	Denmark	France	Italy	Netherlands	Spain	Sweden	Switzerland	United Kingdom	West Germany
Cassette recorder	(NA)	53	72	66	52	77	38	68	86	80	86
Clothes washer	76	86	67	87	91	89	94	60	68	83	91
Dishwasher	43	27	27	24	24	9	13	30	32	9	34
Food processor	(NA)	91	83	83	48	84	50	77	91	80	92
Freezer (separate)	(NA)	58	63	37	42	47	18	70	68	39	78
Microwave oven	61	8	9	17	10	22	2	25	15	35	20
Radio	(NA)	90	98	98	(NA)	97	95	93	99	90	84
Range: Electric ²	57	46	(NA)	12	6	10	³ 93	⁴ 93	14	60	98
Refrigerator	86	94	84	97	88	98	⁵ 94	⁵ 96	96	93	91
Television set:											
Color/mono	93	95	96	98	94	97	98	90	88	98	93
Tumble dryer	⁶ 51	21	(NA)	(NA)	10	13	2	25	14	31	(NA)
Vacuum cleaner	(NA)	91	75	88	90	99	47	98	98	97	97
Video recorder	(NA)	13	15	10	9	32	19	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*, 1989. ² 1987 data. ³ Includes gas ranges. ⁴ 1984 data. ⁵ Includes refrigerator/freezers. ⁶ Electric tumble dryers. Source: Except as noted, Euromonitor Publications Limited, London, England, *European Marketing Data and Statistics*, annual. (Copyright.)

No. 1454. Motor-Vehicle Deaths, Rates, and Vehicle Registrations, by Nation

[Deaths are included if they occur within 30 days after the accident, except as noted. Death data must be compared cautiously because of differences in the volume and kinds of traffic, numbers of vehicles, population density, definitions of deaths, and other factors]

MOTOR VEHICLE TRAFFIC DEATHS				1988 VEHICLE REGISTRATIONS			COUNTRY	MOTOR VEHICLE TRAFFIC DEATHS			1988 VEHICLE REGISTRATIONS		
COUNTRY	Year	Number	Rate ¹	All vehicles (mil.)	Passenger cars			Year	Number	Rate ¹	All vehicles (mil.)	Passenger cars	
					Number (mil.)	Persons per car						Number (mil.)	Persons per car
United States	1987	² 47,297	19.4	184.4	43.1	1.8	Ireland	1987	444	12.5	1.0	0.7	5.0
Australia	1988	3,078	18.6	9.2	7.2	2.2	Italy	1986	³ 9,329	16.3	23.5	25.5	2.4
Austria	1988	1,465	19.3	3.5	2.8	3.7	Japan	1988	13,420	11.0	52.5	30.8	4.0
Belgium	1986	³ 2,057	20.9	4.0	3.6	3.8	Netherlands	1987	1,397	9.5	5.8	5.3	2.8
Canada	1987	² 4,180	16.3	15.9	11.9	2.1	New Zealand	1986	762	23.2	1.9	1.6	2.2
Denmark	1988	723	14.1	1.9	1.6	4.3	Norway	1987	405	9.7	1.9	1.6	2.6
Finland	1987	537	10.9	2.0	1.8	2.8	Sweden	1987	764	9.1	3.8	3.5	2.4
France	1988	⁴ 10,165	18.2	25.3	22.4	2.5	Switzerland	1988	957	14.5	3.2	2.8	2.3
Greece	1987	1,869	18.7	2.2	1.5	6.7	West Germany	1988	7,905	12.9	31.0	29.2	2.1

¹ Deaths per 100,000 population. ² Deaths occurring within one year after the accident. ³ Deaths occurring at the accident scene only. ⁴ Deaths occurring within three days after the accident. Source: World Health Organization, Geneva, Switzerland, unpublished data; and Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *MVMA Motor Vehicle Facts & Figures*, annual.

No. 1455. Percentage of Population Served by Waste Water Treatment Plants—Selected Countries: 1970 to 1987

[Primary: Removal of 20 to 30 percent of the biological oxygen demand (BOD) or more; Secondary: Removal of 80 to 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)	(NA)	-	(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)	⁶ 8.0	(NA)	(NA)	(NA)	⁶ 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 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	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 86.0	(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. 1456. 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	Tele- phones per 100 popula- tion, 1987	Daily news- paper circula- tion, copies per 1,000 popula- tion, 1988	Televi- sion receivers per 1,000 popula- tion, 1988	Radio receivers per 1,000 popula- tion, 1988	COUNTRY	Tele- phones per 100 popula- tion, 1987	Daily news- paper circula- tion, copies per 1,000 popula- tion, 1988	Televi- sion receivers per 1,000 popula- tion, 1988	Radio receivers per 1,000 popula- tion, 1988
United States	⁵ 76.0	⁶ 259	⁸ 112	² 1,120	Italy	¹⁶ 48.8	¹⁰⁵	⁴¹⁹	⁷⁹⁰
Algeria	3.8	21	71	229	Jamaica	⁶ 14.6	⁶ 45	¹¹⁰	⁴⁰¹
Argentina	11.6	(NA)	217	666	Japan	⁷ 145.5	⁵ 666	⁵⁸⁹	⁸⁶³
Australia	⁷ 55.0	252	484	1,273	Kenya	1.4	⁶ 13	⁶	⁹¹
Austria	52.5	362	487	627	Kuwait	18.1	⁶ 197	²⁶²	³²⁹
Bangladesh	⁰ 1	⁶ 7	⁴	⁴¹	Lebanon	(NA)	⁹⁷	³⁰²	⁷⁷³
Belgium	47.8	219	⁹ 320	⁹ 466	Luxembourg	¹⁷ 41.2	³⁹⁵	²⁵⁰	⁶²⁵
Bolivia	² 9	⁵ 0	⁷⁷	⁵⁷⁴	Madagascar	⁶ 4	⁶	⁶	¹⁹⁶
Brazil	9.3	⁷ 48	194	371	Malaysia	9.1	⁶ 323	¹⁴²	⁴³⁸
Bulgaria	¹⁰ 20.0	267	⁹ 189	⁹ 224	Mexico	⁶ 9.6	¹²⁴	¹²⁴	²⁴¹
Burma	¹⁰ 0.1	⁷ 4	²	⁷⁹	Morocco	1.5	(NA)	⁹ 55	²⁰⁷
Cambodia	(NA)	(NA)	⁸	¹⁰⁷	Netherlands	⁶³ 9	³¹⁴	⁴⁷⁸	⁹¹²
Canada	78.0	¹ 225	586	960	New Zealand	¹⁴ 69.7	³²⁷	³⁷²	⁹¹⁷
Chile	6.5	¹ 67	183	338	Nicaragua	¹ 6	⁴⁷	⁶¹	²⁴⁶
China:					Nigeria	⁷ 0.3	⁸⁶	⁶	¹⁶⁴
Mainland	0.7	⁵ 29	24	184	Norway	⁵ 62.2	⁵⁵¹	⁹ 350	⁷⁹⁵
Taiwan	¹² 35.9	(NA)	(NA)	(NA)	Pakistan	0.7	⁶⁴	¹³	⁸⁶
Colombia	8.0	(NA)	110	170	Panama	10.7	⁸⁶	¹⁶⁴	²²²
Costa Rica	14.7	86	80	259	Paraguay	2.5	(NA)	²⁴	¹⁶⁶
Cuba	5.4	129	203	337	Peru	⁶³ 1	¹⁸³	⁸⁵	²⁴¹
Cyprus	39.8	125	139	289	Philippines	⁷ 1.5	⁵⁶	³⁷	¹³⁵
Czechoslovakia	24.6	345	395	⁹ 274	Poland	12.2	¹⁸⁴	⁹ 263	⁹ 294
Denmark	86.4	359	526	⁹ 452	Portugal	20.2	⁶⁴ 1	⁹ 160	²¹⁵
Dominican Republic	¹² 2.9	⁸ 42	81	186	Puerto Rico	⁶ 1420.3	¹⁸⁵	²⁴⁹	⁶⁷⁹
East Germany	23.3	585	759	669	Romania	(NA)	¹⁵⁹	⁹ 174	²⁹¹
Ecuador	3.6	⁶ 64	81	293	Saudi Arabia	⁵ 11.3	(NA)	²⁶⁹	²⁸⁰
Egypt	2.8	¹ 39	84	312	Singapore	44.2	²⁸⁹	³⁶⁰	⁹ 307
El Salvador	2.7	(NA)	84	402	South Africa	¹⁴ 4.3	⁴⁸	⁹⁸	³²³
Ethiopia	0.3	¹	²	¹⁹³	South Korea	25.5	(NA)	²⁰³	⁹⁸⁶
Finland	⁷ 61.7	551	486	997	Soviet Union	⁷ 11.3	⁴⁷⁴	³¹⁹	⁶⁸⁶
France	⁷ 60.8	⁶ 193	399	895	Spain	39.6	⁶⁷⁵	³⁸⁰	³⁰²
Ghana	0.6	33	13	294	Sri Lanka	0.8	⁶ 31	³²	¹⁹¹
Greece	41.3	(NA)	⁹ 175	415	Sudan	⁵ 0.4	⁵	⁵³	²³³
Guatemala	1.6	(NA)	37	63	Sweden	¹⁰ 89.0	⁵²⁶	⁹ 395	⁸⁷⁵
Honduras	1.2	41	68	383	Switzerland	⁶ 85.6	⁵⁰⁴	⁴⁰⁸	⁹ 401
Hong Kong	47.0	(NA)	247	634	Syria	5.9	⁶ 15	⁵⁹	²⁴⁴
Hungary	15.2	273	404	590	Thailand	⁶ 1.9	(NA)	¹⁰⁴	¹⁷⁷
Iceland	¹⁰ 52.5	⁵ 469	⁹ 06	⁹ 620	Trinidad and Tobago	¹⁰ 9.6	¹³⁹	²⁹⁷	⁴⁵⁸
India	¹⁴ 0.6	⁶ 28	⁸ 7.3	⁷⁸	Tunisia	4.1	³⁹	⁶⁹	¹⁸⁰
Indonesia	0.5	21	41	146	Turkey	9.1	(NA)	¹⁷²	¹⁶¹
Iran	¹⁵ 3.9	⁹ 22	53	237	United Kingdom	⁵ 1452.4	⁶ 421	⁴³⁵	^{1,146}
Iraq	⁷ 5.6	(NA)	68	200	Uruguay	14.9	(NA)	¹⁷³	⁵⁹⁵
Ireland	⁷ 26.5	175	260	581	Venezuela	9.2	⁶ 186	¹⁴⁷	⁴²⁸
Israel	¹⁴ 44.5	(NA)	265	468	West Germany	65.0	¹ 347	⁹ 379	⁹ 956
					Yugoslavia	⁶ 15.4	¹⁰⁰	⁹ 179	⁹ 195
					Zimbabwe	3.2	26	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 1986. ⁷ For 1985. ⁸ For 1982. ⁹ Number of licenses issued. ¹⁰ For 1983. ¹¹ For 1987. ¹² For 1980. ¹³ For 1980. ¹⁴ As of March 31. ¹⁵ As of March 21. ¹⁶ Includes San Marino. ¹⁷ For 1981. ¹⁸ Lima only.

Source: Except Taiwan, International Telecommunications Union, Geneva, Switzerland, unpublished data, 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. 1457. Tax Revenues—Selected Countries: 1980 to 1988

[Covers national and local taxes and Social Security contributions. GDP=Gross domestic product; see text, section 14]

COUNTRY	TAX REVENUES, 1988		PERCENT CHANGE IN TOTAL TAX REVENUE AS EXPRESSED IN NATIONAL CURRENCY					TAX REVENUES AS PERCENT OF GDP				
	Total (bil. dol.)	Per capita (dol.)	1980-1988	1984-1985	1985-1986	1986-1987	1987-1988	1980	1985	1986	1987	1988
United States	1,409.2	5,721	(NA)	9.8	5.4	10.2	7.0	29.5	29.2	28.9	30.1	29.8
Australia	80.9	4,893	159.7	10.9	12.7	13.8	12.2	28.6	30.2	30.8	31.1	30.8
Austria	53.3	7,015	60.7	7.4	5.1	2.8	4.9	41.2	43.1	43.1	42.4	41.9
Belgium	89.3	7,014	66.2	7.3	3.8	4.9	3.8	43.5	46.4	45.7	46.1	45.1
Canada	189.4	6,529	106.4	7.6	7.8	13.4	6.2	31.6	33.1	33.8	34.9	34.0
Denmark	56.0	10,897	121.8	12.2	12.2	6.6	4.5	45.5	49.0	50.8	51.8	52.1
Finland	39.9	8,068	162.7	12.9	11.0	2.3	18.6	33.0	37.0	38.5	35.9	37.9
France	421.4	7,542	114.3	7.5	6.7	6.5	5.8	41.7	44.5	44.1	44.8	44.4
Greece	18.8	1,883	431.9	22.1	25.4	17.3	12.0	29.4	35.1	37.1	38.2	35.9
Ireland	13.5	3,810	177.7	5.2	8.4	7.6	12.2	34.0	38.3	39.2	39.5	41.5
Italy	307.9	5,360	242.6	10.6	15.7	9.7	12.9	30.2	34.4	36.1	36.2	37.1
Japan	903.5	7,388	85.4	8.2	7.4	9.3	10.1	25.5	28.0	28.9	30.1	31.3
Luxembourg	3.3	8,739	96.1	9.2	3.9	4.4	7.1	40.9	44.0	43.2	43.2	42.8
Netherlands	109.9	7,446	40.9	4.3	4.6	6.2	4.2	45.8	44.9	45.8	48.4	48.2
New Zealand	15.8	4,765	218.5	19.0	21.8	22.2	6.7	33.1	34.0	34.7	38.3	37.9
Norway	42.8	10,159	107.7	14.8	7.9	4.8	3.6	47.1	47.6	50.0	47.8	46.9
Portugal	14.4	1,476	476.3	22.8	32.4	10.4	27.5	28.7	31.6	33.4	31.5	34.6
Spain	113.1	2,900	259.9	10.5	22.0	18.8	12.0	24.1	28.8	30.6	32.5	32.8
Sweden	100.5	11,914	137.7	9.8	15.0	14.0	7.8	49.1	50.4	53.0	56.0	55.3
Switzerland	59.6	8,958	66.5	5.8	8.6	3.0	7.0	30.8	32.0	32.5	32.0	32.5
Turkey	16.2	299	2,351.0	71.8	65.2	57.0	63.6	21.7	19.7	22.8	24.1	22.9
United Kingdom	306.7	5,372	111.0	9.7	6.6	7.8	11.4	35.4	38.0	37.8	37.2	37.3
West Germany	449.6	7,326	40.5	5.6	4.6	4.0	4.5	38.0	38.0	37.6	37.7	37.4

NA Not available.

Source: Organization for Economic Cooperation and Development, Paris, France, *Revenue Statistics of OECD Member Countries*, annual.

No. 1458. Percent Distribution of Tax Receipts, by Type of Tax—Selected Countries: 1980 to 1988

COUNTRY	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
1987	100.0	44.3	36.2	8.1	28.8	11.1	16.7	16.7	7.3	7.2
1988	100.0	43.1	34.7	8.4	29.7	11.4	17.0	16.9	7.5	7.3
Canada: 1980	100.0	46.6	34.1	11.8	10.5	3.7	6.6	32.5	11.5	13.0
1987	100.0	47.2	38.4	8.2	13.6	4.6	8.8	29.0	13.9	11.1
1988	100.0	46.1	36.7	8.6	13.2	4.6	8.4	30.1	15.5	10.8
France: 1980	100.0	18.1	12.9	5.1	42.7	11.1	28.4	30.4	21.1	8.4
1987	100.0	18.0	12.8	5.1	43.0	12.3	27.1	29.2	19.5	8.9
1988	100.0	17.4	12.1	5.2	43.3	12.5	27.2	29.4	19.7	8.9
Italy: 1980	100.0	31.1	23.1	7.8	38.0	6.9	28.4	26.5	15.6	9.7
1987	100.0	36.1	26.3	10.5	34.3	6.7	24.1	26.4	14.6	10.3
1988	100.0	35.7	26.8	9.4	33.3	6.6	23.4	28.0	15.2	10.5
Japan: 1980	100.0	46.1	24.3	21.8	29.1	10.2	14.8	16.3	-	14.1
1987	100.0	47.0	24.1	23.0	28.6	10.2	14.8	12.9	-	11.1
1988	100.0	47.3	22.9	24.4	29.0	11.1	14.4	12.6	-	10.8
Netherlands: 1980	100.0	32.8	26.3	6.6	38.1	15.7	17.8	25.2	15.8	7.3
1987	100.0	27.4	19.7	7.7	42.7	18.9	17.3	26.0	16.4	7.5
1988	100.0	27.9	20.5	7.3	42.5	19.0	16.9	25.9	16.5	7.1
Sweden: 1980	100.0	43.5	41.0	2.5	28.8	-	27.6	24.0	13.4	9.2
1987	100.0	41.2	37.1	4.1	24.1	-	23.2	24.3	13.3	10.1
1988	100.0	43.9	38.8	5.2	25.1	-	24.3	24.2	13.3	10.0
United Kingdom: 1980	100.0	38.2	29.8	8.3	16.6	6.7	9.5	29.2	14.4	13.1
1987	100.0	37.2	26.7	10.5	18.2	8.3	9.4	31.4	16.0	13.7
1988	100.0	37.5	26.6	10.8	18.5	8.5	9.5	31.2	16.5	13.1
West Germany: 1980	100.0	35.1	29.6	5.5	34.4	15.3	18.5	27.1	16.8	9.3
1987	100.0	34.1	29.1	5.1	37.3	16.1	19.1	25.4	15.7	8.6
1988	100.0	34.2	28.9	5.3	37.4	16.2	19.1	25.2	15.6	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. 1459. Employee-Employer Payroll Tax Rates For Social Security Programs—Selected Countries: 1980 to 1988

[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	1988			1980, total	1985, total	1988		
			Total	Employer	Employee			Total	Employer	Employee
United States . . .	16.81	18.90	19.72	12.21	7.51	10.16	11.40	12.12	6.06	6.06
Austria . . .	34.40	39.90	39.90	23.80	15.60	19.50	22.80	22.90	12.45	10.25
Belgium . . .	35.82	39.46	39.36	27.29	12.07	15.11	16.11	16.36	8.86	7.50
Canada . . .	8.44	9.24	9.08	4.73	4.35	3.60	3.60	4.00	2.00	2.00
France . . .	48.50	51.33	53.53	37.96	15.57	21.90	21.40	21.80	2.00	2.68
Ireland . . .	14.45	22.10	20.51	14.01	6.50	12.0	19.7	18.83	12.33	6.5
Italy . . .	55.02	55.91	54.59	45.64	8.40	24.46	24.36	25.21	18.06	7.15
Japan . . .	20.57	25.50	29.15	18.25	10.90	9.10	12.40	12.40	6.20	6.20
Luxembourg . . .	32.25	32.30	34.10	29.19	12.20	16.00	16.00	16.00	8.00	8.00
Netherlands . . .	54.85	51.18	46.96	22.83	24.13	32.45	24.63	19.00	6.20	12.80
Sweden . . .	31.75	31.66	31.70	31.70	(NA)	20.25	19.95	19.95	19.95	(NA)
Switzerland . . .	12.4	12.3	12.1	7.0	5.1	9.4	9.4	9.6	4.8	4.8
United Kingdom . . .	20.45	19.45	19.45	10.45	9.00	(NA)	(NA)	(NA)	(NA)	(NA)
West Germany . . .	34.00	34.30	36.18	18.78	17.40	18.00	(NA)	18.70	9.35	9.35

NA Not available. ¹ Excludes work-injury compensation program. ² Disability and survivors benefits finances through sickness insurance.

Source: U.S. Social Security Administration, Office of International Policy, unpublished data.

No. 1460. Consumer Prices—Annual Percent Changes, by Country: 1984 to 1989

[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	1984-1985	1985-1986	1986-1987	1987-1988	1988-1989	COUNTRY	1984-1985	1985-1986	1986-1987	1987-1988	1988-1989
United States . . .	3.6	1.9	3.7	4.0	4.8	Kenya . . .	13.1	3.9	5.2	8.3	10.4
Argentina . . .	672.1	90.6	131.7	342.8	3,079	Malaysia . . .	0.3	0.7	0.9	2.0	2.8
Australia . . .	6.7	9.1	8.5	7.2	7.6	Mexico . . .	57.7	86.2	131.8	114.2	20.0
Austria . . .	3.2	1.7	1.4	1.9	2.6	Netherlands . . .	2.2	0.1	-0.7	0.7	1.1
Bangladesh . . .	10.7	11.0	9.5	9.3	10.0	Nigeria . . .	5.5	5.4	10.2	38.3	40.9
Belgium . . .	4.9	1.3	1.6	1.2	3.1	Norway . . .	5.7	7.2	8.7	6.7	4.6
Bolivia . . .	11,750	276.3	14.6	16.0	15.0	Pakistan . . .	5.6	3.5	4.7	8.8	7.8
Brazil . . .	226.9	145.2	229.7	682.3	1,287	Peru . . .	163.4	77.9	85.8	667.0	3,399
Canada . . .	4.0	4.2	4.4	4.0	5.0	Philippines . . .	23.1	0.8	3.8	8.8	10.6
Chile . . .	30.7	19.5	19.9	14.7	17.0	Portugal . . .	19.3	11.7	9.4	9.6	12.6
Colombia . . .	24.0	18.9	23.3	28.1	25.8	Romania . . .	-0.4	-0.1	(NA)	(NA)	(NA)
Ecuador . . .	28.0	23.0	29.5	58.2	75.6	South Africa . . .	16.3	18.6	16.1	12.8	14.7
Egypt . . .	12.1	23.9	19.7	17.7	21.3	South Korea . . .	2.5	2.8	3.0	7.1	5.7
France . . .	5.8	2.5	3.3	2.7	3.5	Spain . . .	8.8	8.8	5.3	4.8	6.8
Ghana . . .	10.3	24.6	39.8	31.4	25.2	Sri Lanka . . .	1.5	8.0	7.7	14.0	11.6
Greece . . .	19.3	23.0	16.4	13.5	13.7	Sweden . . .	7.4	4.2	4.2	5.8	6.4
Guatemala . . .	18.7	36.9	12.3	10.8	11.4	Switzerland . . .	3.4	0.8	1.4	1.9	3.2
India . . .	5.6	8.7	8.8	9.4	6.4	Thailand . . .	2.4	1.8	2.5	3.9	5.4
Indonesia . . .	4.7	5.8	9.3	8.0	6.4	Turkey . . .	45.0	34.6	38.8	75.4	69.6
Iran . . .	4.4	18.4	28.6	28.7	22.3	United Kingdom . . .	6.1	3.4	4.1	4.9	7.8
Israel . . .	304.6	48.1	19.8	16.3	20.2	Venezuela . . .	11.4	11.5	28.1	29.5	84.5
Italy . . .	9.2	5.9	4.7	5.0	6.2	West Germany . . .	2.2	-0.1	0.2	1.3	2.8
Japan . . .	2.0	0.6	-	0.7	2.3	Yugoslavia . . .	72.3	89.8	120.8	194.1	1,240
						Zaire . . .	23.8	46.7	90.4	82.7	104.1

- Represents or rounds to zero. NA Not available.

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

No. 1461. Civilian Employment-Population Ratios, by Sex, and Females as Percent of Total Civilian Employment—Selected Countries: 1970 to 1989

[See headnote, table 1462]

COUNTRY	CIVILIAN EMPLOYMENT-POPULATION RATIOS ¹									FEMALES AS PERCENT OF CIVILIAN EMPLOYMENT				
	Women					Men				1970	1980	1985	1988	1989
	1970	1980	1985	1988	1989	1970	1980	1985	1988					
United States . . .	40.8	47.7	50.4	53.4	54.3	76.2	72.0	70.9	72.0	37.7	42.4	44.1	45.0	45.2
Australia . . .	39.3	41.9	42.9	46.8	48.6	83.2	75.1	70.4	70.9	32.4	36.4	38.4	40.2	40.8
Canada . . .	36.1	46.2	48.8	52.6	53.3	73.4	73.0	68.7	70.9	33.6	39.7	42.7	43.8	44.1
France . . .	38.1	40.1	39.6	39.7	(NA)	76.3	68.5	62.3	61.1	36.0	39.5	41.4	42.0	(NA)
Italy . . .	25.0	27.9	27.8	28.3	(NA)	71.9	66.0	62.5	60.6	27.7	31.7	32.8	33.9	(NA)
Japan . . .	48.2	45.7	46.3	46.6	47.4	80.5	77.9	75.9	75.0	39.0	38.4	39.4	39.7	40.1
Netherlands . . .	(NA)	31.0	23.4	37.0	37.4	(NA)	73.9	267.4	365.8	30.3	34.0	37.0	37.0	37.0
Sweden . . .	49.1	58.0	59.7	62.0	62.7	77.4	73.6	70.5	71.3	39.5	45.2	47.2	47.8	47.8
United Kingdom . . .	41.2	44.8	44.3	47.6	48.7	79.2	72.8	67.1	69.5	37.0	40.4	42.0	42.8	42.9
West Germany . . .	38.2	(NA)	(NA)	(NA)	(NA)	78.3	(NA)	(NA)	(NA)	36.5	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Civilian employment as a percent of the civilian working age population. ² Break in series.

³ Preliminary.

Source: U.S. Bureau of Labor Statistics, *Comparative Labor Force Statistics for Ten Countries, 1959-1989*, May 1990.

No. 1462. Civilian Labor Force, Employment, and Unemployment—Selected Countries: 1970 to 1989

[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, Netherlands, 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	27.3
1984	113.5	7.1	12.3	23.3	21.7	58.5	6.3	4.4	27.0	27.8
1985	115.6	7.3	12.5	23.4	21.8	58.8	6.3	4.4	27.2	28.0
1986	117.8	7.6	12.7	23.4	22.3	59.4	6.4	4.4	27.4	28.2
1987	119.9	7.8	13.0	23.6	22.4	60.0	6.5	4.5	27.7	28.4
1988	121.7	8.0	13.3	23.6	22.7	60.9	6.6	4.5	28.2	28.6
1989	123.9	8.2	13.5	23.8	22.5	61.9	6.6	4.6	28.2	28.8
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	54.7
1984	64.4	61.5	64.8	56.6	47.3	62.7	56.2	66.8	62.1	54.4
1985	64.8	61.6	65.3	56.3	47.2	62.3	55.7	66.9	62.2	54.7
1986	65.3	62.8	65.7	56.1	47.8	62.1	55.9	67.0	62.3	54.9
1987	65.6	63.0	66.2	55.9	47.6	61.9	56.7	67.1	62.7	55.0
1988	65.9	63.3	66.7	55.5	47.4	61.9	56.3	67.6	63.5	54.9
1989	66.5	64.2	67.0	55.5	47.1	62.2	56.7	68.1	63.6	55.0
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	26.5
1984	105.0	6.5	10.9	21.0	20.4	56.9	5.5	4.2	23.8	25.8
1985	107.2	6.7	11.2	20.9	20.5	57.3	5.6	4.3	24.2	26.0
1986	109.6	7.0	11.5	21.0	20.6	57.7	5.7	4.3	24.3	26.4
1987	112.4	7.1	11.9	21.0	20.6	58.3	5.9	4.4	24.9	26.6
1988	115.0	7.4	12.2	21.2	20.9	59.3	5.9	4.5	25.7	26.8
1989	117.3	7.7	12.5	21.4	20.8	60.5	6.0	4.5	26.3	27.1
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	53.1
1984	59.5	58.0	57.5	51.0	44.5	61.0	49.3	64.5	54.8	50.5
1985	60.1	58.5	58.5	50.4	44.4	60.6	50.0	65.0	55.2	50.7
1986	60.7	57.7	59.4	50.2	44.2	60.4	50.2	65.2	55.2	51.3
1987	61.5	57.9	60.4	49.9	43.8	60.1	51.1	65.8	56.2	51.5
1988	62.3	58.7	61.6	49.8	43.7	60.4	51.0	66.5	58.1	51.5
1989	63.0	60.2	62.0	50.1	43.4	60.8	51.5	67.2	59.2	51.9
Unemployment rate:										
1970	4.9	1.6	5.7	2.5	3.2	1.2	(NA)	1.5	3.1	0.5
1980	7.1	6.1	7.5	6.4	4.4	2.0	6.0	2.0	7.0	2.8
1984	7.5	9.0	11.2	10.0	5.9	2.8	12.3	3.1	11.8	7.1
1985	7.2	8.3	10.5	10.4	6.0	2.6	10.2	2.8	11.2	7.2
1986	7.0	8.1	9.5	10.6	7.5	2.8	10.0	2.6	11.2	6.6
1987	6.2	8.1	8.8	10.7	7.9	2.9	9.9	1.9	10.3	6.3
1988	5.5	7.2	7.8	10.2	7.9	2.5	9.5	1.6	8.6	6.3
1989, total	5.3	6.2	7.5	9.7	7.8	2.3	9.0	1.3	7.0	5.7
Under 25 years old	10.9	11.2	11.3	20.6	24.0	4.5	(NA)	3.0	10.0	(NA)
Teenagers ⁵	15.0	14.8	13.1	19.5	28.7	7.2	(NA)	3.2	10.5	(NA)
20-24 years old	8.6	8.4	10.1	20.9	22.1	3.8	(NA)	2.9	9.8	(NA)
25 years old and over	4.0	4.6	6.6	8.2	4.8	2.0	(NA)	1.0	6.4	(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, Italian data are for April; 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, *Comparative Labor Force Statistics for Ten Countries, 1959-1989*, May 1990, and *Monthly Labor Review*.

No. 1463. Labor Force Participation Rates, by Sex and Age-Group—Selected Countries: 1980 and 1989

[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	1989	1980	1989	1980	1989	1980	1989	1980	1989
United States: Total	56.5	58.1	77.5	78.7	78.4	83.1	55.1	55.0	11.9	11.2
Male	60.5	58.2	85.7	84.9	93.4	92.8	71.2	66.6	18.3	16.0
Female	52.4	53.9	69.1	72.4	63.8	73.5	41.0	44.7	7.6	7.8
Canada: Total	55.1	58.5	79.6	81.0	77.4	84.0	53.9	49.9	8.9	7.0
Male	57.9	60.5	86.3	84.8	94.8	93.8	76.2	66.2	14.8	11.0
Female	52.2	56.5	73.0	77.2	60.1	74.5	33.6	34.4	4.4	4.0
France: Total	22.0	12.2	73.7	64.5	79.8	83.7	53.4	38.8	5.0	2.9
Male	25.7	14.9	80.2	69.4	96.4	95.6	68.5	46.9	7.5	4.4
Female	18.3	9.4	67.5	59.7	63.0	72.0	39.7	31.4	3.3	1.9
Italy: Total	31.1	24.6	65.1	67.7	265.9	69.4	24.5	21.7	7.5	4.6
Male	33.3	26.4	72.5	71.5	293.1	90.8	39.6	35.2	12.6	7.9
Female	28.9	22.8	57.9	63.9	239.9	48.6	11.0	9.8	3.5	2.2
Japan: Total	17.9	17.1	69.8	72.7	76.8	80.2	63.0	63.7	26.3	23.8
Male	17.4	17.0	69.6	71.2	97.0	97.0	85.4	82.4	41.0	35.8
Female	18.5	17.3	70.0	74.3	56.7	63.2	45.3	46.1	15.5	15.8
Sweden: Total	55.6	49.7	83.1	83.5	89.3	93.1	66.8	69.4	8.6	9.6
Male	55.3	48.1	84.5	85.0	95.4	95.1	78.7	74.8	14.2	14.2
Female	55.8	51.3	81.6	82.0	82.9	91.0	55.3	64.3	3.7	5.8
United Kingdom: Total	74.4	72.2	77.1	78.1	79.5	80.7	59.4	51.1	6.2	5.5
Male	73.6	72.9	86.0	83.7	95.4	91.3	81.6	65.7	10.3	8.8
Female	75.3	71.5	67.9	72.2	63.4	70.0	39.1	37.3	3.6	3.3
West Germany: Total	43.9	(NA)	73.8	(NA)	74.0	(NA)	42.8	(NA)	4.5	(NA)
Male	47.0	(NA)	79.2	(NA)	93.6	(NA)	65.5	(NA)	7.0	(NA)
Female	40.5	(NA)	68.0	(NA)	53.6	(NA)	27.2	(NA)	3.1	(NA)

NA Not available. ¹ Persons 16-19 years old. ² Persons 25-29 years old. ³ Persons 60-64 years old.

Source: Organization for Economic Cooperation and Development, Paris, France, *Historical Statistics, 1960-1982, 1984*; and *Labor Force Statistics*, annual.

No. 1464. Organization for Economic Cooperation and Development (OECD)—Index of Industrial Production: 1975 to 1989

[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	1984	1986	1987	1988	1989	1975-1980	1980-1989	1984-1985	1985-1986	1986-1987	1987-1988	1988-1989	
OECD, total	72.8	97.4	101.1	104.8	110.8	114.9	4.5	2.7	2.7	1.1	3.7	5.7	3.7	
United States	70.3	98.3	100.9	105.9	111.7	114.5	4.9	2.8	1.7	0.9	5.0	5.4	2.8	
Australia	86.2	96.2	101.0	102.0	105.3	111.2	2.6	1.4	3.9	1.0	1.0	3.2	5.6	
Austria	73.8	95.7	101.1	102.1	106.6	112.9	4.6	2.3	4.5	1.1	1.0	4.4	6.0	
Belgium	83.9	97.5	100.8	103.0	108.9	112.7	2.7	1.8	2.6	0.8	2.2	5.8	3.4	
Canada	74.7	94.9	99.9	105.6	112.1	113.3	2.9	3.1	5.4	-0.1	5.6	6.2	1.1	
Finland	67.6	96.1	100.8	105.0	111.1	111.5	4.9	3.2	4.0	0.8	4.2	5.8	0.4	
France	84.5	99.8	100.9	102.8	107.6	112.1	3.8	1.1	0.2	0.9	1.9	4.7	4.2	
Greece	71.2	96.0	99.0	97.5	102.5	104.4	5.4	1.3	4.2	-1.0	-1.5	5.2	1.8	
Ireland	59.9	96.6	103.2	113.3	125.7	141.3	5.4	6.8	3.5	3.2	9.7	10.9	12.4	
Italy	80.8	98.7	104.1	106.8	114.2	118.7	5.0	1.6	1.4	4.1	2.6	6.9	3.9	
Japan	61.0	96.5	99.8	103.3	112.9	119.7	6.7	4.0	3.7	-0.2	3.4	9.3	6.0	
Luxembourg	76.6	93.5	101.9	101.2	110.0	118.4	1.5	4.1	6.9	1.9	-0.6	8.7	7.6	
Netherlands	84.5	95.4	100.2	101.3	100.9	106.1	2.3	1.3	4.8	0.2	1.1	-0.3	5.1	
Norway	62.5	94.8	103.5	111.3	117.0	136.1	5.7	5.7	5.5	3.5	7.5	5.1	16.3	
Portugal	60.1	99.3	106.1	108.6	115.3	120.9	7.2	4.0	0.7	6.1	2.4	6.1	4.9	
Spain	83.7	98.1	103.1	107.8	111.1	116.1	2.9	2.1	2.0	3.1	4.6	3.0	4.5	
Sweden	93.2	97.1	100.0	102.1	104.1	107.0	-0.6	1.9	3.0	-0.0	2.2	1.9	2.8	
Switzerland	84.8	94.7	103.8	105.0	111.6	112.0	2.7	1.6	5.6	3.8	1.2	6.2	0.4	
United Kingdom	85.3	94.9	102.3	105.7	109.7	110.2	1.6	2.0	5.4	2.3	3.3	3.8	0.4	
West Germany	82.8	95.7	102.0	102.4	106.1	111.3	3.3	1.5	4.5	2.0	0.4	3.6	4.9	

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. International Economic Composite Indexes—Average Annual Percent Change: 1978 to 1990

[The coincident index changes are for calendar years and the leading index changes are for years ending June 30 because they lead the coincident indexes by about 6 months, on average. The G-7 countries are United States, Canada, France, West Germany, Italy, United Kingdom and Japan. Average annual percent changes derived from indexes with base 1980=100. Minus sign (-) indicates decrease]

COUNTRIES	1978-1979	1979-1980	1980-1981	1981-1982	1982-1983	1983-1984	1984-1985	1985-1986	1986-1987	1987-1988	1988-1989	1989-1990
LEADING INDEX												
Total, 11 countries	5.6	2.2	-0.9	-1.1	1.3	10.1	2.8	1.9	4.6	7.9	4.9	2.0
10 countries, excluding U.S.	6.6	6.7	-2.0	0.6	0.7	6.1	4.4	1.6	5.1	8.3	5.9	3.0
G-7 countries	5.5	2.1	-1.1	-1.0	1.2	10.2	2.6	1.7	4.4	7.7	4.8	2.1
North America	4.7	-3.3	0.8	-3.6	2.0	15.6	0.9	2.2	3.8	7.0	3.3	0.4
United States	4.4	-4.0	0.9	-3.4	2.1	16.0	0.5	2.1	4.0	7.1	3.6	0.5
Canada	8.4	3.2	1.1	-6.4	0.5	11.9	4.4	3.0	2.5	5.2	0.8	-0.5
4 European countries	4.0	3.1	-1.5	0.7	1.4	4.2	2.5	2.0	3.4	3.6	4.1	1.4
France	4.4	4.5	-0.6	0.8	0.9	3.8	2.6	2.1	6.1	5.0	5.5	-0.2
West Germany	5.7	2.9	-3.2	-0.8	2.1	6.3	2.3	2.5	1.3	4.0	5.5	4.7
Italy	3.9	4.5	4.7	0.1	-1.1	2.3	2.6	4.1	3.8	1.8	1.9	0.8
United Kingdom	1.9	0.6	-4.4	3.6	2.2	3.3	2.4	0.1	3.4	2.5	2.1	-1.3
5 Pacific region countries	11.0	14.0	-3.4	1.6	-0.2	8.3	7.7	0.8	7.8	15.9	8.8	5.8
Australia	10.1	8.1	2.0	-4.8	-3.7	9.7	7.1	3.0	3.1	7.2	5.4	-1.5
China: Taiwan	11.9	4.8	5.7	5.0	8.1	11.8	6.4	8.2	13.6	14.5	12.2	7.5
Japan	11.3	16.6	-4.8	1.9	-0.5	8.0	8.1	-0.3	7.6	17.6	9.2	6.6
South Korea	8.8	-2.4	5.0	6.8	8.0	9.3	4.6	9.7	16.7	12.8	8.9	4.0
New Zealand	3.4	2.4	1.1	3.3	-1.2	6.0	4.9	-2.2	3.0	-1.5	1.1	2.8
COINCIDENT INDEX												
Total, 11 countries	4.4	0.2	0.5	-2.0	1.7	6.0	3.8	3.3	4.1	6.2	4.8	(NA)
10 countries, excluding U.S.	4.9	2.5	0.5	0.6	1.3	3.8	4.0	3.6	4.3	6.6	6.1	(NA)
G-7 countries	4.3	0.2	0.3	-2.1	1.7	5.9	3.7	3.1	4.0	6.0	4.7	(NA)
North America	3.5	-2.4	0.7	-5.7	2.2	9.5	3.6	2.8	4.0	5.4	2.8	(NA)
United States	3.4	-2.8	0.4	-5.8	2.3	9.7	3.5	2.6	4.0	5.4	2.8	(NA)
Canada	5.0	2.0	3.8	-4.8	2.0	6.3	5.2	3.5	4.8	5.8	3.2	(NA)
4 European countries	4.2	1.5	-1.7	-0.3	0.6	2.0	3.0	3.5	3.8	5.9	5.8	(NA)
France	2.4	1.4	0.3	2.9	1.9	0.5	1.5	3.9	4.9	7.6	8.7	(NA)
West Germany	4.7	2.6	-0.9	-2.5	-0.5	2.7	3.4	4.4	3.1	3.8	5.1	(NA)
Italy	5.3	5.3	-1.4	-0.3	-1.0	3.5	2.4	1.6	1.4	5.3	2.1	(NA)
United Kingdom	4.8	-2.0	-5.3	-0.8	1.6	2.2	4.2	3.1	5.1	7.5	5.6	(NA)
5 Pacific region countries	6.1	4.0	3.5	2.8	2.3	5.9	5.2	3.8	4.8	7.7	7.1	(NA)
Australia	3.9	4.9	5.7	-2.5	-6.9	9.3	7.6	5.2	3.5	7.9	10.7	(NA)
China: Taiwan	9.5	7.1	5.1	2.9	7.4	12.1	4.8	10.8	11.6	6.0	6.1	(NA)
Japan	6.5	4.2	3.1	3.3	2.7	5.1	5.0	2.9	4.2	7.7	7.0	(NA)
South Korea	3.5	-4.9	6.7	6.1	11.3	9.0	5.5	11.9	13.7	10.9	5.9	(NA)
New Zealand	5.0	1.7	2.1	1.0	0.2	4.3	2.0	1.3	1.6	-2.2	-1.4	(NA)

NA Not available.

Source: Center for International Business Cycle Research, Columbia Business School, New York, NY, *International Economic Indicators*, monthly.

No. 1466. Patents, Top Countries: 1989

[Includes only U.S. patents granted to residents of areas outside of the United States and its territories]

TOP COUNTRIES	Total ¹	Inventions	De-signs	TOP COUNTRIES	Total ¹	Inventions	De-signs
Total, foreign country residents	47,910	45,354	2,209	Sweden	926	837	88
Japan	21,090	20,168	661	China: Taiwan	889	592	97
West Germany	8,580	8,303	144	Australia	589	503	75
France	3,299	3,140	129	Austria	408	399	9
United Kingdom	3,281	3,100	153	Belgium	377	359	16
Canada	2,121	1,959	153	Israel	340	326	11
Italy	1,424	1,297	124	Denmark	261	221	37
Switzerland	1,429	1,363	54	Finland	251	230	20
Netherlands	1,161	1,060	41	South Korea	179	157	22
				Other countries	1,534	1,340	175

¹ Includes patents for botanical plants and reissues not shown separately.

Source: U.S. Patent and Trademark Office, *Technology Assessment and Forecast Reports—All Technologies and Country/State*.

No. 1467. World's 500 Largest Industrial Corporations: 1989

[Sales as of December 31, 1989, assets as of company's fiscal year-end. Companies must have derived more than 50% of their sales from manufacturing and/or mining. Sales of consolidated subsidiaries are included and exclude excise taxes collected by manufacturers. Profits are shown after taxes and extraordinary credits or charges]

COUNTRY	Number of companies	Sales (\$1,000)	Profits (\$1,000)	Assets (\$1,000)	Em- ployees (\$1,000)	COUNTRY	Number of companies	Sales (\$1,000)	Profits (\$1,000)	Assets (\$1,000)	Em- ployees (\$1,000)
Australia	10	50.6	2.9	67.7	257.7	Japan	111	925.3	25.2	936.4	2,952.2
United Kingdom	45	443.9	34.4	419.1	3,131.7	Netherlands	6	50.8	2.3	52.0	477.9
Canada	13	65.9	5.2	88.5	419.2	South Korea	11	102.6	1.4	111.2	500.0
Finland	7	26.7	1.2	34.4	138.6	Sweden	15	81.5	3.9	86.2	631.9
France	29	264.7	12.1	311.5	1,783.9	Switzerland	10	96.0	4.8	106.6	707.9
India	6	29.2	1.8	27.5	967.1	United States	167	1,714.8	85.1	1,883.2	8,539.6
Italy	8	154.1	5.8	147.0	1,046.7	West Germany	32	372.1	10.3	314.6	2,861.7

Source: Time Warner, New York, NY, *The Fortune Directories*. (Copyright.)

No. 1468. Indexes of Hourly Compensation Costs for Production Workers in Manufacturing—Selected Countries: 1975 to 1989

[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	1987	1988	1989	AREA OR COUNTRY	1975	1980	1985	1987	1988	1989
United States	100	100	100	100	100	100	China: Taiwan	6	10	12	17	20	25
Total ¹	62	70	54	75	82	82	Austria ⁶	68	87	56	98	101	95
OECD ²	75	83	65	91	99	97	Belgium	101	133	89	112	112	106
Europe ³	82	103	63	101	105	100	Denmark	99	111	63	109	115	106
Asian newly industrial- izing economies ⁴	8	12	13	16	19	23	Finland	72	84	62	100	113	116
Canada	91	85	83	89	98	103	France	71	91	58	93	94	89
Brazil	14	14	9	10	11	12	Germany ⁵	100	125	74	126	131	123
Mexico	31	30	16	12	14	16	Greece	27	38	28	34	38	38
Australia	87	86	63	70	81	85	Ireland	47	60	45	68	70	66
Hong Kong	12	15	13	16	17	19	Italy	73	81	56	91	93	92
Israel	35	39	31	47	55	54	Luxembourg	100	122	59	91	100	(NA)
Japan	48	57	50	81	92	88	Netherlands	103	123	69	116	117	109
South Korea	6	10	10	13	18	25	Norway	107	119	82	129	136	131
New Zealand	50	54	34	51	59	55	Portugal	25	21	12	19	19	19
Singapore	13	15	19	17	19	22	Spain	41	61	37	59	64	64
Sri Lanka	4	2	2	2	(NA)	(NA)	Sweden	113	127	75	113	121	122
							Switzerland	96	113	75	127	130	117
							United Kingdom	52	76	48	67	76	73

NA Not available. ¹ The 27 foreign economies for which 1989 data are available. ² Canada, Australia, Japan, New Zealand, and the 16 European countries for which 1989 data are available. ³ The 16 European countries for which 1989 data are available. ⁴ Hong Kong, South Korea, Singapore, and China: Taiwan. ⁵ Average of selected manufacturing industries.

⁶ Excludes workers in establishments considered handicraft manufactures (including all printing and publishing and miscellaneous manufacturing in Austria.) ⁷ Includes workers in mining and electrical power plants. ⁸ Data refer to September.

Source: Bureau of Labor Statistics, *Report 787*, August 1990.

No. 1469. Structure of Manufacturing Industry for Selected Countries: 1975 to 1987

[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)	Nonmetal ⁶ (3600)	Basic metal (3700)	Machin- ery (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
1987	14.2	5.7	3.3	9.6	18.4	2.6	4.5	40.6	1.2
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
1987	11.7	5.0	2.7	6.8	14.8	3.5	7.0	47.1	1.4
France: 1975	19.5	8.4	2.8	5.3	23.5	2.9	8.8	32.0	1.1
1980	18.0	6.6	2.6	5.0	21.6	3.0	8.1	32.2	1.0
1985	17.6	6.9	2.5	6.5	21.6	3.0	7.3	33.3	1.3
1986	17.9	7.1	2.7	6.9	19.0	3.2	7.0	34.9	1.3
1987	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Italy: 1975	13.2	10.7	2.3	4.7	20.7	4.7	10.9	32.1	0.7
1980	12.2	11.4	3.2	4.6	19.7	5.6	10.1	32.5	0.8
1984	13.0	10.4	2.7	5.4	22.6	5.3	8.4	31.5	0.7
1985	12.6	13.5	2.9	5.4	22.5	4.8	9.6	27.8	0.8
1986	12.7	13.8	2.9	5.2	21.4	4.7	9.0	29.8	0.6
1987	(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	0.3
1980	18.2	18.9	6.0	6.3	24.5	6.1	2.2	17.6	0.2
1985	19.5	18.5	3.6	6.8	28.5	4.8	3.3	15.0	0.2
1986	20.7	20.4	3.9	7.3	24.1	5.2	2.9	15.3	0.2
1987	(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	0.4
1980	13.3	2.6	8.1	13.5	15.3	2.6	8.5	35.8	0.4
1985	13.9	2.1	6.4	13.9	15.5	2.1	7.9	37.9	0.3
1986	14.1	2.1	6.6	14.4	13.3	2.1	7.4	39.6	0.3
1987	13.8	2.1	6.8	15.4	13.1	2.3	7.2	39.1	0.3
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	0.9
1985	18.7	5.6	2.7	7.5	21.1	3.5	5.8	34.2	0.9
1986	19.4	5.8	2.9	8.0	18.4	3.7	5.4	35.4	0.9
1987	18.2	5.7	3.0	8.1	20.7	3.7	5.3	34.5	0.9
West Germany: 1975	13.3	7.0	3.3	4.4	18.7	3.5	10.8	38.6	0.5
1980	12.2	5.4	3.3	4.1	22.5	3.3	8.8	38.0	0.5
1985	12.2	4.8	2.4	4.2	23.7	2.7	6.6	43.1	0.4
1986	12.4	4.9	2.6	4.3	21.0	2.8	6.0	45.5	0.5
1987	12.1	4.8	2.6	4.4	20.7	2.8	5.5	46.6	0.5

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.

Source: Organization for Economic Cooperation and Development, Paris, France, *OECD Industrial Structure Statistics, 1987*.

No. 1470. Selected Indexes of Manufacturing Activity—Selected Countries: 1970 to 1989

[1982=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	75.2	44.2	76.9	57.2	58.5	54.3	48.0	54.1	69.6	70.8	65.2
1980	95.3	87.3	99.9	98.0	90.6	95.1	90.9	95.1	96.4	89.9	97.8
1985	115.9	116.9	119.8	105.0	108.8	122.1	119.4	121.1	112.6	118.0	112.4
1987	124.7	122.8	119.2	100.6	113.8	126.5	130.7	123.3	115.7	130.1	109.5
1988	127.6	128.8	121.2	103.8	119.6	130.1	136.9	128.9	117.4	137.1	114.4
1989	130.1	(NA)	123.8	106.8	125.1	133.8	144.8	134.7	119.3	144.1	119.6
Average annual percent change:											
1970-1989	2.9	(X)	2.5	3.3	4.1	4.9	6.0	4.9	2.9	3.8	3.2
1980-1989	3.5	(X)	2.4	1.0	3.7	3.9	5.3	3.9	2.4	5.4	2.3
1988-1989	2.0	(X)	2.1	2.9	4.6	2.8	5.8	4.5	1.6	5.1	4.5
Compensation per hour, national currency basis:²											
1970	35.9	23.1	28.7	22.3	17.8	11.6	24.8	28.5	24.4	14.9	35.1
1980	83.7	86.3	78.6	83.4	72.8	70.2	88.4	89.6	84.5	79.7	90.4
1985	111.1	121.8	116.8	120.6	130.2	150.9	110.9	113.6	130.9	122.6	115.1
1987	119.0	129.4	126.3	135.7	142.7	166.7	119.0	120.7	151.6	140.5	125.0
1988	123.4	131.6	132.5	140.5	148.7	175.6	121.6	123.8	162.9	149.2	130.1
1989	126.7	(NA)	143.8	147.8	155.5	194.4	129.9	125.7	180.7	164.3	136.0
Average annual percent change:											
1970-1989	6.9	(X)	8.9	10.5	12.1	16.0	9.1	8.1	11.1	13.5	7.4
1980-1989	4.7	(X)	6.9	6.6	8.8	12.0	4.4	3.8	8.8	8.4	4.6
1988-1989	2.7	(X)	8.5	5.2	4.6	10.7	6.8	1.5	10.9	10.1	4.5
Real hourly compensation:^{2,3}											
1970	89.3	55.1	77.4	70.2	57.3	60.3	63.2	65.4	72.7	65.9	63.7
1980	98.0	101.0	97.9	102.6	92.3	96.9	95.2	101.3	103.1	97.1	101.2
1985	99.6	101.4	101.8	101.4	104.5	109.3	104.3	104.7	101.9	105.1	106.7
1987	101.1	104.7	101.2	105.8	108.1	108.8	111.2	111.6	108.4	111.8	116.0
1988	100.6	105.3	102.1	104.8	109.7	109.1	112.8	113.7	111.3	113.2	119.5
1989	98.6	(NA)	105.5	105.2	110.8	113.3	117.9	114.2	116.0	115.6	121.4
Average annual percent change:											
1970-1989	0.5	(X)	1.6	2.2	3.5	3.4	3.3	3.0	2.5	3.0	3.5
1980-1989	0.1	(X)	0.8	0.3	2.1	1.8	2.4	1.3	1.3	2.0	2.0
1988-1989	-2.0	(X)	3.3	0.4	1.0	3.8	4.5	0.4	4.2	2.1	1.6
Unit labor costs, national currency:											
1970	47.7	52.3	37.3	39.0	30.4	21.4	51.6	52.7	35.0	21.0	53.8
1980	87.8	98.9	78.7	85.1	80.3	73.8	97.2	94.2	87.6	88.7	92.4
1985	95.9	104.2	97.6	114.9	119.6	123.6	92.9	93.9	116.3	103.9	102.4
1987	95.5	105.4	106.0	134.9	125.4	131.8	91.1	97.9	131.0	108.0	114.1
1988	96.7	102.2	109.3	135.5	124.4	135.0	88.9	96.0	138.7	108.8	113.7
1989	97.4	(NA)	116.1	138.3	124.3	145.0	89.7	93.3	151.4	114.0	113.7
Average annual percent change:											
1970-1989	3.8	(X)	6.2	6.9	7.7	10.6	3.0	3.1	8.0	9.3	4.0
1980-1989	1.2	(X)	4.4	5.5	5.0	7.8	-0.9	-0.1	6.3	2.8	2.3
1988-1989	0.7	(X)	6.2	2.1	-0.1	7.4	0.9	-2.8	9.2	4.8	-
Unit labor costs, U.S. dollar basis:⁴											
1970	47.7	48.2	44.1	43.4	36.2	46.2	35.9	38.9	42.5	28.7	35.8
1980	87.8	155.0	83.1	126.2	125.2	116.8	107.3	126.8	130.2	118.1	123.6
1985	95.9	80.4	88.2	90.4	87.7	87.7	97.0	75.6	84.9	77.1	84.5
1987	95.5	129.1	98.6	164.4	137.2	137.6	156.9	129.1	129.7	101.3	154.1
1988	96.7	127.1	109.7	167.7	137.3	140.3	172.7	129.7	142.1	110.9	157.1
1989	97.4	(NA)	121.0	157.7	128.2	143.4	161.8	117.5	147.4	106.9	146.8
Average annual percent change:											
1970-1989	3.8	(X)	5.5	7.0	6.9	6.1	8.2	6.0	6.8	7.2	7.7
1980-1989	1.2	(X)	4.3	2.5	0.3	2.3	4.7	-0.8	1.4	-1.1	1.9
1988-1989	0.7	(X)	10.3	-6.0	-6.6	2.2	-6.3	-9.4	3.7	-3.6	-6.6
Employment:											
1970	102.5	137.7	96.3	119.6	107.3	97.6	100.0	133.9	114.7	141.8	115.2
1980	107.8	109.9	108.4	103.9	104.9	107.8	98.7	108.1	107.6	117.5	104.9
1985	102.4	95.1	103.6	112.4	92.0	89.8	106.7	96.5	103.5	91.7	97.4
1987	101.2	91.2	109.3	113.9	87.8	88.4	105.2	99.3	106.0	88.2	99.3
1988	103.3	90.7	112.3	110.5	86.1	89.3	107.6	99.8	107.4	89.5	99.2
1989	104.5	(NA)	113.3	109.5	86.1	89.7	110.2	100.8	109.0	89.8	100.5
Average annual percent change:											
1970-1989	0.1	(X)	0.9	-0.5	-1.2	-0.4	0.5	1.5	-0.3	-2.4	0.7
1980-1989	-0.3	(X)	0.5	0.6	-2.2	-2.0	1.2	-0.8	0.1	-2.9	-0.5
1988-1989	1.2	(X)	0.9	-0.9	-	0.4	2.4	1.0	1.5	0.3	1.3
Aggregate hours:											
1970	106.1	159.9	102.1	132.3	124.1	107.0	106.1	148.5	130.7	155.0	129.7
1980	110.0	110.1	110.8	103.7	111.0	108.0	99.5	106.8	106.1	118.1	106.4
1985	107.0	92.7	106.0	109.8	91.0	89.0	108.0	91.8	103.0	93.1	95.6
1987	106.1	88.3	114.0	111.2	87.5	91.4	106.3	92.7	103.6	89.9	96.1
1988	109.6	88.4	118.9	107.6	86.1	95.7	109.6	92.8	105.3	91.5	95.7
1989	110.6	(NA)	118.6	106.0	85.7	95.9	111.2	93.3	106.0	91.0	96.0
Average annual percent change:											
1970-1989	0.2	(X)	0.8	-1.2	-1.9	-0.6	0.2	-2.4	-1.1	-2.8	-1.6
1980-1989	0.1	(X)	0.8	0.2	-2.8	-1.3	1.2	-1.5	-	-2.9	-1.1
1988-1989	0.9	(X)	-0.3	-1.5	-0.5	0.2	1.5	0.5	0.7	-0.5	0.3

- Represents or rounds to zero. NA Not available. X Not applicable. 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, *News Release* USDL 90-383, "International Comparisons of Manufacturing Productivity and Labor Cost Trends," July 27, 1990.

No. 1471. Crude Steel Production and Consumption: 1980 to 1988

[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)			Per capita (kilograms)		
	1980	1985	1987	1988	1980	1985	1987	1980	1985	1987
World	705.3	696.9	705.5	744.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
United States ¹	101.5	80.1	80.9	91.8	115.6	107.3	102.9	508	448	417
Argentina	2.6	2.7	3.5	3.5	3.4	(NA)	3.0	120	(NA)	95
Australia ²	7.9	6.3	6.4	6.1	6.1	5.8	5.8	414	366	354
Austria	4.6	4.7	4.3	4.4	2.7	1.8	1.7	358	235	229
Bangladesh ²	0.1	0.1	0.8	0.7	0.4	0.5	0.5	4	5	5
Belgium	12.3	10.8	9.8	11.3	3.2	2.8	2.5	313	275	244
Brazil	15.3	20.5	22.2	24.5	14.2	(NA)	14.0	117	(NA)	99
Bulgaria	2.6	2.9	3.0	2.9	2.8	3.0	3.4	315	336	381
Canada	15.9	13.5	14.7	15.2	12.9	11.9	13.0	538	471	507
China: Mainland	37.1	49.5	58.9	59.4	43.3	66.6	69.7	44	63	64
Czechoslovakia	15.2	15.0	15.4	15.4	11.2	11.0	11.0	729	709	703
East Germany	7.3	7.9	8.2	8.1	8.8	9.5	9.7	583	574	581
France	23.2	18.8	17.7	19.1	20.0	14.2	14.4	372	258	259
Greece	1.1	1.0	0.9	1.0	2.0	1.6	1.9	206	164	189
India	9.4	11.2	12.2	14.0	11.5	(NA)	16.0	17	(NA)	20
Indonesia ⁵	0.4	1.2	1.5	2.1	2.3	2.3	3.6	16	14	21
Italy	26.5	23.9	22.9	23.9	26.1	20.7	22.8	463	362	397
Japan	111.4	105.3	98.5	105.7	73.4	66.7	71.0	629	553	582
Mexico	7.0	7.2	7.2	7.3	10.8	8.3	7.6	152	105	93
Netherlands	5.0	3.4	1.8	1.3	4.6	4.4	3.9	328	305	263
Nigeria	0.0	0.3	0.2	0.2	2.0	0.9	0.8	24	9	8
North Korea	5.8	6.5	6.5	8.0	5.9	8.4	6.8	326	413	316
Pakistan	(NA)	(NA)	(NA)	(NA)	0.6	0.7	0.6	8	7	6
Philippines	0.4	0.3	0.3	0.3	1.2	0.5	1.0	25	9	17
Poland	18.6	15.4	16.3	15.9	19.3	15.2	15.9	542	409	422
Romania	13.2	13.8	(NA)	(NA)	12.1	10.9	(NA)	545	480	(NA)
South Africa	9.1	8.6	9.0	8.6	5.6	(NA)	6.3	232	(NA)	164
South Korea	5.8	5.0	2.8	2.3	4.9	(NA)	13.0	128	(NA)	308
Soviet Union	147.9	154.7	161.9	163.0	(NA)	(NA)	164.8	(NA)	(NA)	582
Spain	12.6	14.7	11.6	11.7	8.9	9.9	8.3	238	257	214
Sweden	4.2	4.9	4.7	4.8	4.1	3.2	3.5	498	384	421
Turkey	1.7	4.7	7.0	8.0	3.4	(NA)	7.7	77	(NA)	149
United Kingdom	11.3	15.7	17.4	19.0	13.8	14.4	14.7	245	254	259
Venezuela	1.8	3.1	3.7	3.7	3.0	3.2	4.1	199	186	227
Vietnam	(NA)	(NA)	(NA)	(NA)	0.2	0.1	0.2	4	1	11
West Germany	43.8	40.5	36.2	41.0	33.8	29.3	28.0	549	481	457
Yugoslavia	2.3	2.1	1.9	1.7	5.7	5.1	4.0	255	221	170

NA Not available. ¹ Production data excludes steel for castings made in foundries operated by companies not producing ingots. ² Production data for year ending June 30. ³ Luxembourg included with Belgium. ⁴ Production data exclude steel for castings. ⁵ Production data include crude steel for castings. ⁶ Lesotho, Namibia, and Swaziland.

Source: Statistical Office of the United Nations, New York, annuals. (Copyright.)

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No. 1472. World Production of Major Mineral Commodities, by Selected Commodity: 1985 to 1988

[Metric ton=1.023 short tons]

COUNTRY	Unit	1985	1986	1987, prel.	1988, est.	Leading producers, 1988
MINERAL FUELS						
Coal	Mil. metric tons	4,441	4,542	4,676	4,755	China: Mainland, U.S., Soviet Union.
Gas, natural, marketed	Tril. cu. ft.	62.0	63.4	66.1	68.0	Soviet Union, U.S., Canada.
Natural gas liquids	Mil. barrels ²	1,517	1,586	1,643	1,687	United States, Soviet Union, Mexico.
Petroleum, crude	Mil. barrels ²	19,581	20,635	20,458	21,405	U.S., Saudi Arabia.
Petroleum, refined	Mil. barrels ²	21,054	21,825	21,860	22,459	U.S., Soviet Union, Japan.
NONMETALLIC MINERALS						
Cement, hydraulic	Mil. metric tons	959	1,001	1,045	1,101	China: Mainland, Soviet Union, Japan.
Diamond, gem and industrial	1,000 carats	66,010	91,717	87,615	93,999	Australia, Zaire, Botswana.
Nitrogen in ammonia	Mil. metric tons	91.1	91.4	94.3	98.9	Soviet Union, China: Mainland, U.S.
Phosphate rock	Mil. metric tons	149	139	144	164	U.S., Soviet Union, Morocco.
Potash, marketable	Mil. metric tons	29.2	28.7	30.5	31.4	Soviet Union, Canada, East Germany.
Salt	Mil. metric tons	173	175	179	184	U.S., China: Mainland, Soviet Union.
Sulfur, elemental basis	Mil. metric tons	54.7	54.7	56.9	58.4	U.S., Soviet Union, Canada.
METALS						
Aluminum	Mil. metric tons	15.4	15.4	16.4	17.3	U.S., Soviet Union, Canada.
Bauxite, gross weight	Mil. metric tons	85.3	88.9	95.1	100.0	Australia, Guinea, Brazil.
Chromite, gross weight	1,000 metric tons	10,516	11,094	10,917	11,666	South Africa, Soviet Union, Albania.
Copper, metal content	1,000 metric tons	7,969	8,001	8,328	8,453	Chile, U.S., Canada.
Gold, metal content	Mil. troy ounces	49.3	51.5	53.0	58.5	South Africa, Soviet Union, U.S.
Iron ore, gross weight	Mil. metric tons	862	868	890	916	Soviet Union, Brazil, China: Mainland.
Lead, metal content	1,000 metric tons	3,428	3,354	3,429	3,426	Australia, Soviet Union, U.S.
Manganese ore, gross weight	Mil. metric tons	25.4	25.0	23.7	23.9	Soviet Union, S. Africa, China: Mainland.
Nickel, metal content	1,000 metric tons	805	770	812	835	Canada, Soviet Union, New Caledonia.
Steel, crude	Mil. metric tons	718	711	733	778	Soviet Union, Japan, U.S.
Tin, metal content	1,000 metric tons	181	173	177	200	Brazil, Indonesia, Malaysia.
Zinc, metal content	1,000 metric tons	6,936	6,936	7,242	6,977	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. 1473. Energy Consumption and Production, by Country: 1980 and 1988

[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.)				ELECTRIC ENERGY PRODUCTION ² (bil. kWh)		CRUDE PETROLEUM PRODUCTION ³ (mil. metric tons)		COAL PRODUCTION ⁴ (mil. metric tons)	
	Total (mil. metric tons)		Per capita (kilograms)		1980	1988	1980	1988	1980	1988
	1980	1988	1980	1988						
World, total	8,544.3	10,013.2	1,919	1,959	8,247	11,026	2,979	2,919	2,728	3,450
United States	2,364.5	2,057.9	10,388	10,015	5,235.4	5,285.7	424.2	410.1	710.4	783.5
Algeria	24.8	29.2	1,327	1,228	7.1	24.0	47.4	33.2	(Z)	(Z)
Argentina	49.3	62.2	1,746	1,973	39.7	53.0	25.3	23.1	0.4	0.5
Australia	91.2	113.5	6,195	6,942	96.1	138.6	18.9	25.1	72.5	134.6
Austria	30.5	30.0	4,058	4,015	42.0	48.3	1.5	1.2	(Z)	(Z)
Bahrain	4.4	7.3	12,651	15,239	1.7	3.0	2.4	2.2	(NA)	(NA)
Bangladesh	3.8	7.3	44	67	2.7	6.9	(Z)	(Z)	(X)	(X)
Belgium	59.1	55.4	5,997	5,587	53.6	64.6	(X)	(X)	6.3	9.5
Brazil	92.5	112.5	763	779	139.5	204.1	9.2	27.9	5.2	7.3
Bulgaria	47.3	51.5	5,254	5,727	34.8	45.0	60.3	60.3	0.3	0.2
Burma	2.2	2.5	62	65	1.3	2.3	1.6	0.7	(Z)	(Z)
Canada	254.2	275.0	10,547	10,540	377.5	504.3	70.4	79.2	20.2	38.6
Chile	11.4	13.4	1,025	1,053	11.8	16.9	1.6	1.1	1.0	1.9
China: Mainland	562.8	820.1	571	756	300.6	537.8	105.9	136.8	595.8	346.4
Taiwan	37.8	59.4	2,126	2,957	43.8	79.9	0.2	0.1	2.6	1.2
Colombia	23.8	25.9	923	850	22.9	38.3	6.5	18.9	4.9	15.1
Cuba	13.6	15.4	1,394	1,520	9.9	13.6	0.3	0.7	(X)	(X)
Czechoslovakia	97.4	96.2	6,364	6,172	72.7	87.4	0.1	0.1	928.3	925.5
Denmark	26.9	25.6	5,254	5,007	27.1	28.0	0.3	4.7	(X)	(X)
East Germany	121.8	129.2	7,276	7,764	98.8	118.3	0.1	(Z)	(Z)	(Z)
Ecuador	5.7	7.2	708	710	3.4	5.6	10.4	15.6	(NA)	(NA)
Egypt	20.1	34.1	488	664	18.9	35.4	29.4	42.8	(X)	(X)
Ethiopia	0.9	1.1	27	25	0.7	0.8	(X)	(X)	(NA)	(NA)
Finland	26.4	28.6	5,514	5,791	38.7	53.8	(X)	(X)	(X)	(X)
France	237.3	204.5	4,409	3,665	5246.4	5391.9	1.2	3.4	920.2	912.9
Greece	20.1	28.2	2,088	2,823	22.7	33.2	(Z)	1.1	(X)	(X)
Hong Kong	7.3	11.3	1,448	1,995	12.6	25.5	(NA)	(NA)	(X)	(X)
Hungary	40.6	40.3	3,787	3,811	23.9	29.2	2.0	1.9	93.1	92.3
India	139.4	235.3	202	287	119.3	237.8	9.4	31.6	109.1	189.0
Indonesia	34.7	51.2	230	293	14.2	37.0	77.6	66.0	0.3	2.7
Iran	45.7	69.5	1,177	1,308	22.4	38.7	72.7	112.4	60.9	61.3
Iraq	10.7	13.0	807	738	11.4	23.4	130.1	128.2	(NA)	(NA)
Ireland	11.1	13.0	3,268	3,561	10.9	13.2	(X)	(X)	0.1	(Z)
Israel	8.8	12.5	2,273	2,831	12.5	19.5	(Z)	(Z)	(X)	(X)
Italy	174.9	207.6	3,112	3,624	185.7	200.7	1.8	4.5	6(Z)	(Z)
Japan	434.8	480.0	3,726	3,921	577.5	753.7	0.4	60.6	18.0	11.2
Kuwait	6.9	15.6	5,019	8,069	9.4	20.0	84.1	71.5	(NA)	(NA)
Libya	7.3	15.1	2,456	3,567	4.8	16.0	88.3	49.2	(X)	(X)
Malaysia	12.2	22.6	882	1,366	10.2	19.3	13.2	25.2	(X)	(X)
Mexico	118.6	140.1	1,709	1,651	567.0	5110.9	99.9	130.7	7.0	11.3
Morocco	6.4	8.2	319	347	4.9	8.8	(Z)	6(Z)	0.7	0.6
Netherlands	93.0	99.7	6,543	6,808	64.8	69.6	1.3	3.9	(Z)	616(Z)
New Zealand	10.0	16.1	3,152	4,859	22.0	29.9	0.3	1.5	2.0	62.1
Nigeria	11.0	17.0	136	161	7.2	9.9	104.2	69.3	0.2	60.1
North Korea	48.5	58.8	2,713	2,687	35.0	53.0	(X)	(X)	536.0	640.0
Norway	26.3	27.8	6,423	6,855	84.1	109.4	24.6	54.2	0.3	0.2
Pakistan	16.6	32.0	191	263	15.3	36.9	0.5	2.2	1.5	2.7
Peru	12.0	11.0	693	521	9.8	14.1	9.8	7.6	60.1	60.1
Philippines	16.7	16.6	346	280	17.9	24.5	0.5	0.3	0.3	1.3
Poland	176.8	179.8	4,935	4,735	121.9	144.4	0.3	0.2	193.1	193.0
Portugal	11.2	15.8	1,153	1,547	15.3	22.4	(X)	(X)	0.2	0.2
Romania	100.0	108.4	4,505	4,705	67.5	75.3	11.5	610.9	8.1	8.9
Saudi Arabia	25.3	81.4	2,745	6,230	18.9	42.2	495.9	258.1	(NA)	(NA)
South Africa	90.2	107.9	2,751	2,760	90.4	151.9	(X)	(X)	116.6	178.4
South Korea	52.3	85.9	1,373	2,017	40.1	85.5	(X)	(X)	18.6	24.3
Soviet Union	1,473.1	1,953.8	5,549	6,888	1,293.9	1,698.4	603.2	624.0	492.9	599.0
Spain	88.4	90.0	2,359	2,306	110.5	138.5	1.6	1.5	13.1	14.3
Sudan	1.5	1.4	82	62	1.0	1.1	(X)	(X)	(NA)	(NA)
Sweden	44.5	41.0	5,376	4,913	96.7	146.5	(Z)	(Z)	(Z)	(Z)
Switzerland	23.3	24.7	3,636	3,778	548.1	58.0	(X)	(X)	(X)	(X)
Syria	7.3	12.7	835	1,098	3.8	8.1	8.3	14.2	(X)	(X)
Tanzania	0.8	0.9	44	37	0.7	0.9	(X)	(X)	(Z)	(Z)
Thailand	17.3	30.2	372	558	15.1	33.9	(X)	1.1	(Z)	(Z)
Trinidad and Tobago	7.5	7.0	6,992	5,704	2.0	3.5	11.0	7.9	(NA)	(NA)
Tunisia	4.1	5.4	639	703	2.8	5.1	5.6	4.9	(X)	(X)
Turkey	31.9	50.3	718	940	23.3	48.0	2.3	2.6	3.6	3.2
United Arab Emirates	16.8	28.3	17,188	18,869	6.3	13.1	82.8	75.4	(NA)	(NA)

See footnotes at end of table.

No. 1473. Energy Consumption and Production, by Country: 1980 and 1988—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.)				ELECTRIC ENERGY PRODUCTION ² (bil. kWh)		CRUDE PETROLEUM PRODUCTION ³ (mil. metric tons)		COAL PRODUCTION ⁴ (mil. metric tons)	
	Total (mil. metric tons)		Per capita (kilograms)		1980	1988	1980	1988	1980	1988
	1980	1988	1980	1988						
United Kingdom	271.0	282.0	4,850	4,948	284.9	308.2	78.9	109.4	⁹ 130.1	⁹ 101.8
Venezuela	49.0	57.5	3,140	3,070	35.9	57.8	114.8	97.6	(Z)	(Z)
Vietnam	6.6	7.3	122	114	3.8	5.7	(NA)	(NA)	5.2	5.5
West Germany	359.4	339.6	5,829	5,594	368.8	428.9	4.6	5.6	94.5	79.3
Yugoslavia	48.0	58.9	2,152	2,501	59.4	83.7	4.2	3.7	0.4	0.4
Zaire	2.0	2.2	69	65	4.2	5.3	1.0	1.8	0.1	0.1
Zambia	2.3	1.8	403	240	59.2	58.4	(X)	(X)	0.6	0.4

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 slimes. 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*, annual. (Copyright.)

No. 1474. Selected Petroleum Product Prices—Selected Countries: 1990

[As of January 1, 1990. Includes taxes]

COUNTRY	AUTOMOTIVE FUELS (U.S. dollars per gallon)		RESIDENTIAL (U.S. dollars per gallon)			INDUSTRIAL (U.S. dollars per barrel)	
	Premium gasoline	Diesel fuel	Light fuel oil	Kerosene	Liquefied petroleum gases	Light fuel oil	Heavy fuel oil
United States ¹	² 1.04	0.99	² 0.81	² 1.00	² 0.95	32.47	21.84
Argentina	1.28	0.59	0.41	0.31	0.31	17.14	9.28
Austria	3.15	2.17	0.80	(NA)	1.39	28.56	17.11
Belgium	3.13	1.76	0.96	0.87	1.59	28.14	14.93
Bolivia	1.46	0.95	0.85	0.75	0.51	39.75	(NA)
Brazil	1.41	0.69	0.85	0.79	0.50	12.59	9.55
Canada	1.92	1.55	1.09	1.56	1.28	45.78	23.49
Chile	1.21	1.20	1.17	0.96	0.90	30.39	21.96
Denmark ¹	3.64	1.04	2.32	1.84	2.06	36.96	20.83
Ecuador	0.52	0.37	(NA)	0.06	0.11	15.54	11.78
El Salvador	1.88	1.05	(NA)	1.14	0.70	21.00	21.00
Ethiopia	2.93	1.44	(NA)	1.18	1.28	41.47	47.00
Finland ¹	3.40	2.29	1.21	(NA)	2.90	42.00	25.53
France ¹	3.40	1.78	1.40	(NA)	(NA)	(NA)	18.51
Ghana	0.76	0.69	(NA)	0.52	0.60	22.04	18.36
Greece ¹	2.16	0.89	0.90	0.79	0.76	37.80	24.31
India	1.92	0.78	(NA)	0.50	0.35	33.81	31.46
Ireland ¹	3.63	2.54	1.43	0.48	0.97	42.84	21.79
Israel	2.20	1.67	0.75	1.69	0.49	(NA)	23.03
Italy ¹	4.27	2.34	2.53	2.00	1.84	89.04	24.00
Jamaica	2.02	1.44	(NA)	0.78	(NA)	41.98	25.08
Japan	3.05	1.75	1.03	(NA)	(NA)	37.80	26.14
Luxembourg ¹	2.32	1.40	0.94	0.98	0.64	36.96	19.81
Mexico	0.88	0.67	0.27	0.63	0.28	28.10	9.74
Morocco	2.86	1.63	0.95	1.47	0.77	35.61	33.48
Netherlands ¹	3.35	1.72	1.25	1.62	1.09	(NA)	26.77
Norway	3.61	1.31	1.38	1.55	1.03	48.30	44.43
Pakistan	1.52	0.68	(NA)	0.53	0.38	12.42	14.28
Panama	1.98	1.19	(NA)	1.10	0.93	46.20	21.21
Paraguay	1.33	0.68	(NA)	0.81	0.46	28.44	17.84
Peru	1.28	0.39	(NA)	0.44	0.33	15.78	11.28
Portugal ¹	3.30	2.06	2.13	2.03	2.07	86.10	25.16
Saudi Arabia	0.54	0.12	(NA)	0.20	0.49	36.00	55.10
South Africa	1.76	1.65	1.59	1.48	1.58	65.09	35.67
Spain	2.73	1.82	1.21	2.04	1.28	45.36	21.22
Sweden ¹	3.23	2.30	1.74	2.18	0.66	63.42	55.61
Switzerland ¹	2.66	2.71	0.88	(NA)	(NA)	33.60	23.42
Thailand	1.24	0.89	(NA)	0.90	0.78	36.30	17.84
Turkey ¹	1.97	1.94	0.96	1.98	0.88	(NA)	36.24
United Kingdom ¹	2.55	2.04	0.81	2.61	(NA)	(NA)	19.59
Uruguay	2.50	1.44	0.98	1.16	1.20	38.32	30.19
Venezuela	0.24	0.06	0.04	0.09	0.21	1.84	1.84
West Germany ¹	2.72	1.91	0.95	(NA)	(NA)	35.11	20.31

NA Not available. ¹ Average for January 1990. ² Price excludes tax.

Source: Energy Information Administration, *International Energy Annual*, 1989.

No. 1475. 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	1985	1987	1988	Average annual percent change	
					1980-1988	1987-1988					1980-1988	1987-1988
World	99	114	116	116	2.0	-	99	105	103	101	0.2	-1.9
Developed countries	99	108	105	100	0.1	-4.7	98	104	100	95	-0.4	-5.0
United States	96	108	99	91	0.4	-8.1	96	103	93	85	-8.6	-8.6
Canada	99	114	118	101	0.3	-14.4	99	108	110	93	-0.8	-15.4
Western Europe	102	107	109	107	0.6	-1.8	102	106	107	105	0.4	-1.9
Japan	96	109	105	103	0.9	-1.9	96	105	100	98	0.3	-2.0
Oceania	95	107	106	109	1.7	2.8	94	99	96	97	0.4	1.0
South Africa	96	94	102	106	1.2	3.4	96	83	86	87	-1.2	1.0
Centrally planned countries	99	123	133	132	3.6	-0.7	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	0.9	-1.9
China: Mainland	99	129	140	139	4.3	-0.7	99	121	129	126	3.1	2.0
Developing countries	100	116	117	123	2.6	5.1	100	103	100	102	0.2	2.0
Latin America	99	114	116	120	2.4	3.4	99	101	99	100	0.1	1.0
Mexico	100	113	111	111	1.3	0.0	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	-0.1	-1.0
Africa	101	113	115	119	2.1	3.4	99	96	93	94	-0.8	1.1
Middle East	100	113	117	124	2.7	6.0	100	99	97	98	-0.2	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 or rounds to 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. 1476. Wheat, Rice, and Corn—Exports and Imports of 10 Leading Countries: 1986 to 1988

[In thousands of metric tons. Countries listed are the ten leading exporters or importers in 1988]

LEADING EXPORTERS	EXPORTS			LEADING IMPORTERS	IMPORTS		
	1986	1987	1988		1986	1987	1988
WHEAT				WHEAT			
United States	24,555	30,638	40,500	Soviet Union	15,745	18,097	21,180
Canada	15,957	22,140	20,079	China: Mainland	6,114	13,201	14,547
France	13,367	14,220	14,847	Japan	5,620	5,476	5,724
Australia	16,109	14,789	12,303	Egypt	4,329	5,162	5,287
Argentina	4,021	4,192	3,643	Italy	5,259	4,617	4,904
West Germany	2,143	2,262	3,185	South Korea	3,449	4,121	4,116
Saudi Arabia	575	1,344	2,058	Algeria	2,623	1,849	3,350
Turkey	16	297	1,993	Iran	1,908	3,600	3,200
United Kingdom	3,987	4,122	1,927	Iraq	2,185	2,900	2,800
Hungary	1,669	1,281	1,790	Netherlands	1,321	1,396	2,454
RICE				RICE			
Thailand	4,524	4,443	5,267	India	21	17	684
United States	2,392	2,472	2,260	Bangladesh	53	260	674
Pakistan	1,316	1,270	1,210	Iraq	550	524	603
China: Mainland	950	1,022	699	Iran	493	800	600
Italy	676	610	510	Soviet Union	493	598	498
Australia	178	186	297	Hong Kong	367	373	364
Uruguay	282	212	273	Saudi Arabia	374	375	363
North Korea	200	250	236	China: Mainland	322	551	310
India	253	350	200	Senegal	378	307	310
Spain	72	171	119	France	305	277	297
CORN				CORN			
United States	27,099	40,906	46,568	Japan	14,653	16,504	18,555
France	5,799	6,305	6,011	Soviet Union	7,236	9,238	11,426
Argentina	7,411	3,987	4,217	South Korea	3,671	4,566	5,051
China: Mainland	5,641	3,917	3,917	Taiwan	3,071	3,707	4,459
Thailand	3,981	1,628	1,209	Mexico	1,704	3,603	3,303
South Africa	1,800	2,350	745	Spain	1,564	942	2,244
Spain	60	459	731	Netherlands	1,877	1,760	2,045
Belgium-Luxembourg	364	604	524	Belgium-Luxembourg	1,466	1,729	1,487
Greece	580	368	500	Italy	835	1,245	1,471
Soviet Union	212	257	365	United Kingdom	1,482	1,471	1,338

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. 1477. Wheat, Rice, and Corn Production, by Country: 1987 to 1989

[In thousands of metric tons. Rice data cover 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		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
World, total	510,462	506,968	538,056	465,780	490,768	506,291	451,086	400,892	470,318
United States	57,363	49,303	55,407	5,879	7,253	7,007	181,142	125,193	191,197
Argentina	9,000	7,800	² 10,000	371	415	469	9,250	9,200	4,260
Australia	12,369	14,054	14,200	613	751	748	206	221	217
Belgium	1,078	1,293	1,478	(NA)	(NA)	(NA)	40	54	62
Brazil	6,035	5,751	5,407	10,419	² 11,806	² 11,107	26,803	24,750	26,508
Burma	192	157	230	13,636	² 13,162	² 13,581	224	259	270
Canada	25,992	15,996	24,383	(NA)	(NA)	(NA)	7,015	5,369	6,400
China: Mainland ³	85,845	85,435	² 91,002	176,958	171,368	² 179,403	79,457	77,671	² 75,840
Egypt	2,721	2,639	3,148	2,406	2,132	² 2,680	3,019	4,087	3,748
France	27,415	29,677	31,817	54	65	97	12,470	14,120	12,926
Greece	2,213	2,183	2,005	137	116	110	2,156	1,750	1,700
Hungary	5,748	7,026	6,559	40	47	45	7,234	6,256	6,949
India	44,323	46,169	53,995	85,339	106,385	² 107,500	5,721	8,332	7,800
Indonesia	(NA)	(NA)	(NA)	40,078	41,676	43,566	5,155	6,852	6,324
Iran	7,600	7,265	5,900	1,803	1,419	1,200	580	555	370
Iraq	722	929	2,481	196	141	340	61	77	31
Japan	9,381	7,952	7,408	1,064	1,094	21,130	5,764	6,269	² 6,251
Mexico	864	1,021	³ 985	13,284	12,419	² 12,934	1	31	31
Pakistan	4,415	3,665	23,900	591	456	2,441	11,607	10,600	29,900
South Korea	12,016	12,675	14,419	4,861	4,800	4,796	1,127	1,204	1,120
Soviet Union	4	2	22	7,596	8,260	28,200	127	108	218
Sweden	83,312	84,445	90,500	2,683	2,866	2,525	14,808	16,030	³ 17,000
Thailand	1,558	1,296	21,764	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
United Kingdom	(NA)	(NA)	(NA)	18,428	21,263	² 21,300	2,781	4,675	4,456
Vietnam	11,941	11,640	13,900	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
West Germany	(NA)	(NA)	(NA)	15,550	16,860	² 18,100	561	815	300
Yugoslavia	9,932	11,922	11,065	(NA)	(NA)	(NA)	1,217	1,535	1,574
	5,345	6,304	5,599	49	24	² 30	8,863	7,700	9,415

NA Not available. ¹ Includes Luxembourg. ² Unofficial figure. ³ FAO estimate.

Source: Food and Agriculture Organization of the United Nations, Rome, Italy, *FAO Production Yearbook*, annual (copyright).

No. 1478. Fisheries—Commercial Catch, by Country: 1984 to 1988

[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	1984	1985	1986	1987	1988	COUNTRY	1984	1985	1986	1987	1988
World, total ¹	183.2	190.6	203.7	206.7	216.9	Japan	26.5	25.2	26.4	26.1	26.2
United States	10.6	10.5	10.9	13.3	13.3	Mexico	2.4	2.7	2.9	3.1	3.0
Canada	2.8	3.1	3.3	3.4	3.5	North Korea (est.)	3.6	3.7	3.7	3.7	3.7
Chile	9.9	10.6	12.3	10.6	11.5	Norway	5.4	4.7	4.2	4.3	4.0
China: Mainland	13.1	14.9	17.6	20.6	22.8	Peru	7.4	9.2	12.4	10.1	14.6
Denmark	4.1	3.9	4.1	3.8	4.3	Philippines	4.3	4.1	4.2	4.4	4.5
Iceland	3.4	3.7	3.7	3.6	3.9	South Korea	5.5	5.8	6.8	6.3	6.0
India	6.3	6.2	6.4	6.4	6.9	Soviet Union	23.4	23.2	24.8	24.6	25.0
Indonesia	4.4	5.2	5.4	5.7	6.0	Spain	2.9	3.0	3.2	3.1	3.2
						Thailand	4.7	4.9	5.6	4.9	5.2

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. 1479. Meat—Production, by Country: 1980 to 1988

[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	1988	COUNTRY	1980	1985	1988
World, total	104,535	115,537	117,261	Italy	2,305	2,462	2,419
United States	17,680	17,874	17,824	Japan	1,893	2,087	2,111
Argentina	3,220	3,077	3,085	Mexico	2,044	2,289	2,269
Australia ¹	2,332	2,086	2,234	Poland	2,397	2,192	2,511
Brazil	3,115	3,045	2,835	Soviet Union	12,698	14,050	14,799
China	12,664	16,443	19,892	United Kingdom	2,305	2,419	2,342
France	3,823	3,733	3,757	West Germany	4,759	4,845	5,058

¹ Year ending June 30.

Source: Food and Agriculture Organization of the United Nations, Rome, Italy, *FAO Production Yearbook*, annual. (Copyright.)

No. 1480. Foreign Trade of Selected Countries—Source of Imports and Destination of Exports: 1989

[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. and Canadian imports, which are f.o.b.]

COUNTRY	Total ¹	O.E.C.D. ²		Soviet Union and Eastern Europe	China: Mainland, Vietnam, North Korea	O.P.E.C. ⁴	Other developing countries ⁵	Africa	America ⁶	Middle East	Far East ⁸
		Total	E.E.C. ³								
IMPORTS											
United States	473.4	287.7	85.1	2.1	12.0	30.6	141.0	14.0	57.4	15.1	96.0
Austria	38.9	32.9	26.4	2.4	0.2	0.7	2.7	0.9	0.5	0.3	1.5
Belgium ⁹	98.5	84.4	70.3	1.8	0.3	2.9	9.0	4.6	1.8	2.6	3.0
Canada	114.1	98.8	12.6	0.4	1.0	1.6	10.8	1.0	4.1	0.6	7.8
Denmark	26.6	22.5	13.2	0.8	0.3	0.6	2.4	0.2	0.9	0.5	1.4
France	190.6	153.8	114.3	4.7	1.8	8.0	19.2	9.3	4.5	5.2	8.8
Italy	162.3	123.2	92.1	6.6	1.8	10.3	20.1	12.9	4.7	4.7	6.8
Japan	210.8	105.6	28.3	3.7	11.8	31.9	57.8	4.2	8.7	22.8	64.7
Netherlands	104.2	86.2	65.8	2.4	0.5	6.0	9.0	2.7	2.8	4.5	5.2
Spain	71.5	45.0	40.8	1.8	0.5	5.3	8.1	4.6	3.5	2.5	3.1
Sweden	48.9	42.9	26.9	1.7	0.3	0.5	3.4	0.2	1.1	0.5	2.3
Switzerland	58.2	52.3	41.2	0.7	0.2	0.3	4.6	1.0	1.3	0.5	2.2
United Kingdom	197.6	167.3	104.0	2.9	0.9	3.2	22.3	4.2	3.6	3.0	14.6
West Germany	269.8	217.8	137.9	10.1	3.1	6.6	31.9	8.2	8.2	3.4	17.6
Percent distribution:											
United States	100.0	60.8	18.0	0.4	2.5	6.5	29.8	3.0	12.1	3.2	20.3
Austria	100.0	84.6	67.9	6.0	0.6	1.8	7.0	2.2	1.3	0.8	3.9
Belgium ⁹	100.0	85.7	71.4	1.8	0.3	3.0	9.2	4.7	1.8	2.7	3.1
Canada	100.0	86.5	11.0	0.4	0.9	1.4	9.5	0.9	3.6	0.5	6.8
Denmark	100.0	84.7	50.0	2.9	1.2	2.1	9.1	0.9	3.5	1.9	5.4
France	100.0	80.7	60.0	2.4	0.9	4.2	10.1	4.9	2.4	2.7	4.6
Italy	100.0	75.9	56.7	4.1	1.1	6.4	12.4	7.9	2.9	2.9	4.2
Japan	100.0	50.1	13.4	1.8	5.6	15.1	27.4	2.0	4.1	10.8	30.7
Netherlands	100.0	82.8	63.2	2.3	0.5	5.8	8.7	2.6	2.7	4.3	5.0
Spain	100.0	62.9	57.1	2.5	0.8	7.4	11.3	6.4	4.8	3.5	4.4
Sweden	100.0	87.8	55.0	3.5	0.7	1.1	6.9	0.4	2.2	1.0	4.7
Switzerland	100.0	89.9	70.8	1.2	0.4	0.6	7.9	1.8	2.2	0.9	3.8
United Kingdom	100.0	84.6	52.6	1.4	0.4	1.6	11.3	2.1	1.8	1.5	7.4
West Germany	100.0	80.8	51.1	3.8	1.2	2.5	11.8	3.1	3.0	1.3	6.5
EXPORTS											
United States	363.8	232.0	86.6	5.3	5.8	13.2	107.0	7.7	49.1	11.1	57.0
Austria	32.4	26.4	20.7	2.9	0.2	0.9	2.1	0.6	0.2	0.7	0.9
Belgium ⁹	100.0	87.1	73.7	1.2	0.4	1.7	8.9	2.5	0.8	2.7	4.5
Canada	116.2	105.7	9.8	0.8	1.0	1.6	7.1	0.9	2.2	1.0	5.5
Denmark	28.0	24.3	14.2	0.7	0.1	0.7	2.3	0.5	0.6	0.7	0.9
France	172.8	136.8	105.8	3.5	1.7	6.5	24.3	12.8	5.2	4.2	8.2
Italy	149.2	118.8	84.3	4.6	1.3	7.1	16.8	7.1	3.3	5.0	6.7
Japan	275.2	166.3	56.6	3.8	8.9	10.8	85.5	5.2	8.9	7.5	82.4
Netherlands	107.8	95.9	81.3	1.8	0.3	2.2	6.8	2.6	1.2	1.8	3.1
Spain	44.4	36.1	29.6	0.7	0.2	1.7	4.8	2.0	1.8	1.2	1.2
Sweden	51.5	44.9	27.5	1.1	0.2	1.0	4.2	0.9	0.9	0.9	2.5
Switzerland	51.5	40.7	29.2	1.7	0.4	1.6	7.1	1.1	1.4	2.1	4.1
United Kingdom	152.6	120.5	77.3	2.2	0.7	8.3	19.4	5.5	2.6	8.6	10.6
West Germany	341.4	284.9	188.2	13.0	2.5	8.7	31.6	9.1	6.2	7.4	15.7
Percent distribution:											
United States	100.0	63.8	23.8	1.5	1.6	3.6	29.4	2.1	13.5	3.1	15.7
Austria	100.0	81.4	63.8	9.0	0.6	2.6	6.4	1.8	0.7	2.0	2.8
Belgium ⁹	100.0	87.1	73.7	1.2	0.4	1.7	8.9	2.5	0.8	2.7	4.5
Canada	100.0	91.0	8.4	0.7	0.8	1.4	6.1	0.8	1.9	0.9	4.7
Denmark	100.0	86.5	50.6	2.5	0.3	2.3	8.2	1.9	2.2	2.5	3.3
France	100.0	79.1	61.2	2.0	1.0	3.8	14.1	7.4	3.0	2.4	4.8
Italy	100.0	79.6	56.5	3.1	0.9	4.8	11.3	4.8	2.2	3.4	4.5
Japan	100.0	60.4	20.6	1.4	3.2	3.9	31.1	1.9	3.2	2.7	29.9
Netherlands	100.0	89.0	75.4	1.6	0.2	2.1	6.3	2.5	1.2	1.7	2.8
Spain	100.0	81.4	66.8	1.5	0.5	3.9	10.9	4.6	4.0	2.8	2.7
Sweden	100.0	87.1	53.4	2.2	0.4	2.0	8.2	1.8	1.7	1.7	4.8
Switzerland	100.0	79.1	56.6	3.2	0.8	3.1	13.8	2.1	2.7	4.1	8.0
United Kingdom	100.0	79.0	50.7	1.5	0.5	5.5	12.7	3.6	1.7	5.6	7.0
West Germany	100.0	83.5	55.1	3.8	0.7	2.6	9.3	2.7	1.8	2.2	4.6

¹ Includes other areas not shown separately. ² Organization for Economic Cooperation and Development, except Australia. 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 1487. 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 1990.

No. 1481. Reserve Assets and International Transaction Balances: 1985 to 1989

[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 decrease]

COUNTRY	TOTAL RESERVE ASSETS				CURRENT ACCOUNT BALANCE			MERCHANDISE TRADE BALANCE		
	1985	1988	1989		1985	1988	1989	1985	1988	1989
			Total	Currency holdings ¹						
United States	32,100	36,740	63,550	44,550	-112,750	-126,580	-105,900	-122,160	-127,210	-113,240
Algeria	2,819	900	847	843	1,015	-2,040	(NA)	4,223	946	(NA)
Argentina	3,273	3,363	1,463	1,463	-952	-1,615	-1,292	4,878	4,234	5,709
Australia	5,768	13,598	13,780	13,150	-8,913	-10,093	-15,677	-1,317	-1,128	-3,647
Austria	4,767	7,368	8,598	7,939	-273	-458	-94	-4,406	-6,301	-7,363
Bangladesh	337	1,046	502	469	-458	-286	-1,103	-1,287	-1,443	-1,986
Belgium	4,849	9,333	10,766	9,760	689	3,594	3,197	-472	1,223	967
Brazil	10,605	6,972	7,535	7,535	-273	4,159	(NA)	12,466	19,168	(NA)
Burma	34	77	263	263	-206	(NA)	(NA)	-202	(NA)	(NA)
Cameroon	132	151	80	79	-562	(NA)	(NA)	490	(NA)	(NA)
Canada	2,503	15,391	16,055	14,150	-1,470	-8,330	-16,593	12,574	8,881	5,047
Chile	2,450	3,161	(NA)	(NA)	-1,328	-167	-905	850	2,219	1,578
China: Mainland	12,728	18,541	17,960	17,022	-11,417	-3,802	-4,317	-13,123	-5,315	-5,620
Colombia	1,595	3,248	3,616	3,466	-1,809	-200	42	-23	827	1,481
Denmark	5,429	10,765	6,397	5,782	-2,728	-1,779	-1,402	-771	1,873	2,426
Ecuador	718	398	540	540	114	-536	-472	1,294	588	661
Egypt	792	1,263	1,520	1,520	-2,166	-1,190	(NA)	-5,215	-6,751	(NA)
Finland	3,750	6,369	5,111	4,637	-766	-2,998	-4,895	878	1,136	-250
France	26,589	25,364	24,611	21,868	-35	-3,549	-4,299	-5,276	-8,089	-10,349
Ghana	479	221	347	317	-134	-66	-98	-36	-112	-192
Greece	868	3,619	3,223	3,106	-3,276	-958	-2,573	-5,053	-6,072	-7,383
Hungary	2,153	1,467	1,246	1,246	-455	-572	-571	448	583	1,043
India	6,420	4,899	3,859	3,105	-4,177	(NA)	(NA)	-5,616	(NA)	(NA)
Indonesia	4,974	5,048	5,454	5,357	-1,923	-1,397	-1,368	5,822	5,678	6,413
Ireland	2,940	5,087	4,057	3,702	-690	653	521	631	3,829	4,007
Israel	3,680	4,016	5,276	5,276	1,109	-623	1,148	-2,362	-3,047	-1,819
Italy	15,595	34,715	46,720	44,278	-3,540	-6,190	-10,632	-6,083	-1,362	-1,990
Ivory Coast	5	10	15	10	64	-1,280	(NA)	1,351	816	(NA)
Japan	26,719	96,728	83,957	77,992	49,170	79,610	56,990	55,990	95,000	76,890
Kenya	391	264	285	257	-113	-455	-588	-327	-785	-1,037
Kuwait	5,471	1,924	3,102	2,765	4,815	4,419	9,323	4,712	1,645	5,637
Libya	5,904	4,322	4,333	3,685	1,906	-1,823	(NA)	4,599	-109	(NA)
Malaysia	4,912	6,527	7,783	7,393	-613	1,817	-175	3,577	5,546	3,899
Mexico	4,906	5,279	6,329	5,946	1,130	-2,443	-5,447	8,451	1,668	-645
Morocco	115	547	488	488	-891	467	-790	-1,368	-752	-1,679
Nepal	56	220	215	207	-122	-280	-243	-283	-477	-415
Netherlands	10,782	16,075	16,508	15,027	4,027	5,415	7,960	5,462	8,484	7,935
Nigeria	1,667	651	1,766	1,765	2,566	-194	-143	5,616	2,626	2,844
Norway	13,917	13,268	13,785	12,751	3,052	-3,715	226	4,728	-145	3,769
Pakistan	807	395	521	519	-1,080	-1,424	-1,204	-3,230	-2,693	-2,454
Peru	1,842	511	808	808	135	-1,096	508	1,172	-99	1,402
Philippines	615	1,003	1,417	1,365	-35	-390	-1,465	-482	-1,085	-2,598
Poland	870	2,055	2,314	2,314	-846	-275	-1,586	573	847	-114
Portugal	1,395	5,127	9,952	9,826	410	-632	-554	-1,457	-5,137	-5,192
Romania	199	(NA)	(NA)	(NA)	1,239	(NA)	(NA)	1,735	(NA)	(NA)
Saudi Arabia	25,004	20,553	16,748	11,287	-12,932	-6,774	(NA)	7,029	4,510	(NA)
Singapore	12,847	17,073	20,345	20,136	-4	1,306	2,338	-2,829	-2,345	-2,474
South Africa	315	780	960	958	2,622	1,218	1,579	5,842	5,222	5,589
South Korea	2,869	12,347	15,214	14,978	-887	14,161	5,056	-19	11,445	4,597
Spain	11,175	37,074	41,467	39,558	2,851	-3,784	-10,933	-4,171	-17,998	-24,495
Sri Lanka	451	222	244	231	-419	-395	-265	-523	-541	-454
Sudan	12	12	16	16	155	-358	-152	-135	-522	-508
Sweden	5,793	8,492	9,559	8,885	-1,608	-2,549	-5,179	2,384	4,748	4,133
Switzerland	18,016	24,203	25,116	25,070	6,040	8,836	8,495	-1,561	-4,576	-4,328
Syria	83	191	(NA)	(NA)	-958	-151	784	-2,090	-639	991
Thailand	2,190	6,097	9,515	9,461	-1,537	-1,655	2,455	-1,332	2,074	-2,948
Trinidad and Tobago	1,129	127	247	238	-90	-118	-66	756	389	489
Turkey	1,056	2,344	4,780	4,738	-1,013	1,596	966	-2,975	-1,777	-4,201
United Kingdom	12,860	44,100	34,770	31,990	4,765	-27,283	-32,115	-2,653	-37,438	-39,170
Venezuela	10,251	3,092	4,106	4,055	3,327	-5,809	2,496	6,782	-1,998	5,858
West Germany	44,380	58,528	60,709	55,862	17,000	50,450	55,430	28,520	79,400	76,660
Yugoslavia	1,095	2,298	4,136	4,136	833	2,487	2,427	-588	779	58
Zaire	190	187	195	190	-289	-762	-641	606	473	422

NA Not available. ¹ Holdings of convertible foreign currencies.

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

No. 1482. Foreign Exchange Rates: 1970 to 1990

[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
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	79.19	13.236	39.409	1.1842	26.407	7.3210	6.3802	162.60	7.8008
1990	78.07	11.331	33.424	1.1668	26.918	6.1899	5.4467	158.59	7.7899
	India (rupee)	Ireland ¹ (pound)	Italy (lira)	Japan (yen)	Malaysia (ringgit)	Nether- lands (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
1979	8.156	204.65	831.10	219.02	2.1721	2.0072	102.23	5.0650	48.95
1980	7.887	205.77	858.20	226.63	2.1767	1.9875	97.34	4.9381	50.08
1981	8.681	161.32	1138.60	220.63	2.3048	2.4998	86.85	5.7430	61.74
1982	9.485	142.05	1354.00	249.06	2.3395	2.6719	75.10	6.4567	80.10
1983	10.104	124.81	1519.30	237.55	2.3204	2.8543	66.79	7.3012	111.61
1984	11.348	108.64	1756.10	237.45	2.3448	3.2083	57.84	8.1596	147.70
1985	12.332	106.62	1908.90	238.47	2.4806	3.3184	49.75	8.5933	172.07
1986	12.597	134.14	1491.16	168.35	2.5830	2.4484	52.46	7.3984	149.80
1987	12.943	148.79	1297.03	144.60	2.5185	2.0263	59.33	6.7408	141.20
1988	13.899	152.49	1302.39	128.17	2.6189	1.9778	65.56	6.5242	144.26
1989	16.213	141.80	1372.28	138.07	2.7079	2.1219	59.35	6.9131	157.53
1990	17.492	165.76	1198.27	145.00	2.7057	1.8215	59.62	6.2541	142.70
	Singapore (dollar)	South Africa (rand)	South Korea (won)	Spain (peseta)	Sweden (krona)	Switzer- land (franc)	Thail- and (baht)	United Kingdom ¹ (pound)	West Germany (deutsche mark)
1970	3.0800	0.7181	310.57	69.72	5.1700	4.3160	21.000	239.59	3.6480
1975	2.3713	0.7408	484.00	57.43	4.1530	2.5839	20.379	222.16	2.4613
1979	2.1746	0.8424	484.00	67.16	4.2892	1.6643	20.419	212.24	1.8342
1980	2.1412	0.7796	607.43	71.76	4.2309	1.6772	20.476	232.43	1.8175
1981	2.1053	0.8787	681.03	92.40	5.0659	1.9674	21.731	202.43	2.2631
1982	2.1406	1.0876	731.93	110.09	6.2838	2.0327	23.014	174.80	2.4280
1983	2.1136	1.1148	776.04	143.50	7.6717	2.1006	22.991	151.59	2.5539
1984	2.1325	1.4761	807.91	160.78	8.2706	2.3500	23.582	133.66	2.8454
1985	2.2008	2.2344	861.89	169.98	8.6031	2.4551	27.193	129.74	2.9419
1986	2.1782	2.2919	884.61	140.04	7.1272	1.7979	26.314	146.77	2.1704
1987	2.1059	2.0385	825.93	123.54	6.3468	1.4918	25.774	163.98	1.7981
1988	2.0132	2.2770	734.51	116.52	6.1369	1.4642	25.312	178.13	1.7569
1989	1.9511	2.6214	674.29	118.44	6.4559	1.6369	25.725	163.82	1.8808
1990	1.8134	2.5885	710.64	101.96	5.9231	1.3901	25.609	178.41	1.6166

¹ Value is U.S. cents per unit of foreign currency. ² Since unification of East and West Germany, the official German currency is the deutschmark.

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

No. 1483. Exchange Rates—Indexes of Value of Foreign Currency Relative to U.S. Dollar: 1970 to 1989

[1982 = 100]

YEAR	United States	Belgium	Canada	Den- mark	France	Italy	Japan	Nether- lands	Norway	Sweden	United King- dom	West Ger- many
1970	100.0	92.2	118.3	111.3	119.0	215.9	69.5	73.9	90.3	121.2	137.1	66.6
1975	100.0	124.8	121.3	145.5	153.7	207.5	83.9	105.9	123.8	151.7	127.1	98.9
1979	100.0	156.1	105.4	158.6	154.6	162.9	114.2	133.2	127.5	146.6	121.4	132.5
1980	100.0	156.8	105.6	148.2	155.9	158.3	110.4	134.6	130.8	148.6	133.1	133.8
1981	100.0	123.6	103.0	116.9	121.0	118.9	112.9	107.4	112.4	124.0	115.8	107.7
1982	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1983	100.0	89.5	100.2	91.2	86.3	89.1	104.8	93.6	88.4	81.9	86.7	95.1
1984	100.0	79.3	95.3	80.6	75.3	77.1	104.9	83.3	79.1	76.0	76.5	85.3
1985	100.0	77.2	90.4	78.7	73.3	70.9	104.4	80.5	75.1	73.0	74.2	82.5
1986	100.0	102.5	88.8	103.1	95.0	90.8	147.9	109.1	87.3	88.2	84.0	111.9
1987	100.0	122.5	93.1	121.9	109.4	104.4	172.2	131.9	95.8	99.0	93.8	135.0
1988	100.0	124.5	100.3	123.8	110.4	104.0	194.3	135.1	99.0	102.4	101.9	138.2
1989	100.0	116.2	104.2	114.0	103.1	98.7	180.4	125.9	93.4	97.3	93.7	129.1

Source: U.S. Bureau of Labor Statistics, News Release USDL: 90-383, "International Comparisons of Manufacturing Productivity and Labor Cost Trends", July 27, 1990.

No. 1484. Central Bank Discount Rates, Money Market Rates, and Government Bond Yields—Selected Countries: 1980 to 1990

[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
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	7.00	12.47	4.25	9.50	13.50	7.00	10.50	6.00	(2)	6.00
1990, June	7.00	13.90	5.25	9.50	12.50	7.00	11.00	6.00	(2)	6.00
Money market rates: ³										
1980	13.36	13.28	10.93	11.85	17.17	10.13	12.17	2.29	15.62	9.10
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	9.18	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	9.22	12.02	4.87	9.07	12.69	6.99	11.52	6.50	13.88	6.60
1990, June	8.29	(NA)	7.20	9.84	(NA)	7.96	12.27	8.70	(NA)	7.80
Government bond yields:										
1980	11.46	12.48	9.22	13.03	16.11	10.21	11.74	4.77	13.79	8.50
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	8.62	10.52	6.35	10.26	4.29	9.87	5.92
1987	8.38	9.95	4.21	9.43	9.68	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	8.50	9.92	5.05	8.79	10.72	7.21	(NA)	5.20	9.58	7.09
1990, June	8.48	10.72	7.06	9.76	11.69	8.97	(NA)	6.17	11.01	8.86

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. 1485. External Debt of Soviet Union and Eastern European Countries: 1975 to 1989

[In billions of dollars. Gross debt: total amount owed. Commercial debt: money owed to private institutions or individuals. Official debt: money owed to or guaranteed by a foreign government. Net debt represents gross debt minus assets held with Western commercial banks]

TYPE AND SOURCE	1975	1980	1983	1984	1985	1986	1987	1988	1989
Gross debt, total	42.2	104.2	103.9	102.0	117.3	136.6	153.8	152.4	163.8
Soviet Union: Gross debt	12.5	20.5	22.0	22.3	29.0	38.0	40.8	42.4	47.8
Commercial debt	8.2	11.0	12.6	13.2	19.5	25.9	30.1	33.7	39.0
Official debt	4.3	9.5	9.4	9.1	9.5	10.1	10.7	8.7	8.8
Net debt	8.7	10.5	9.8	10.8	15.7	21.1	25.9	26.9	33.4
Bulgaria: Gross debt	2.6	3.5	2.4	2.2	3.7	4.9	6.1	7.5	10.0
Commercial debt	2.5	3.2	1.9	1.8	3.1	4.2	5.3	6.5	8.8
Official debt	0.2	0.3	0.5	0.5	0.6	0.7	0.8	1.0	1.2
Net debt	2.3	2.7	1.2	0.8	1.5	3.6	5.0	(NA)	(NA)
Czechoslovakia: Gross debt	1.1	4.9	4.0	3.6	3.8	4.5	5.8	6.1	7.8
Commercial debt	0.9	4.1	2.9	2.6	2.8	3.4	4.5	4.8	5.9
Official debt	0.2	0.9	1.1	1.0	1.0	1.1	1.3	1.3	1.9
Net debt	0.8	3.7	3.0	2.6	2.8	3.3	4.2	(NA)	(NA)
East Germany: Gross debt	5.4	14.1	13.1	12.4	14.0	17.0	20.4	19.5	21.2
Commercial debt	4.4	11.3	9.1	8.2	10.1	13.1	16.5	16.2	18.2
Official debt	1.0	2.8	3.9	4.2	3.9	3.9	3.9	3.3	3.0
Net debt	3.7	11.6	9.7	7.8	7.6	9.6	11.4	(NA)	(NA)
Hungary: Gross debt	3.1	9.1	8.2	8.8	11.8	15.1	17.7	18.0	20.7
Commercial debt	3.1	8.8	6.9	7.0	9.8	12.7	15.2	15.6	15.7
Official debt	-	0.3	0.7	0.8	0.8	0.9	1.0	1.0	3.2
BIS/IMF	-	-	0.6	1.1	1.2	1.5	1.6	1.4	1.8
Net debt	2.2	7.0	6.8	6.7	8.6	12.0	15.5	(NA)	(NA)
Poland: Gross debt	8.0	25.0	26.4	26.8	29.3	33.5	39.2	38.5	39.7
Commercial debt	5.9	14.9	10.9	9.4	10.6	12.1	12.8	11.9	13.4
Official debt	2.1	10.1	15.5	17.4	18.7	21.4	26.4	26.6	26.3
Net debt	7.4	24.4	25.2	25.3	27.7	31.8	36.2	(NA)	(NA)
Romania: Gross debt	2.9	9.4	8.8	7.1	6.6	6.4	5.1	2.2	0.4
Commercial debt	2.0	6.5	4.8	3.4	2.9	2.7	1.7	0.4	0.2
Official debt	0.7	1.7	0.9	1.1	1.1	1.1	0.8	0.6	0.2
IMF/World Bank/CEMA bank ¹	0.2	1.2	3.1	2.6	2.6	2.6	2.6	1.2	-
Net debt	2.4	9.1	8.2	6.4	6.4	5.8	4.5	(NA)	(NA)
Yugoslavia: Gross debt	6.6	17.4	19.0	18.8	19.2	19.4	18.7	18.2	16.2
Commercial debt	4.3	12.8	10.3	9.0	7.8	7.4	7.6	7.8	6.9
Official debt	1.6	2.6	4.6	5.8	7.1	7.7	6.6	5.4	5.5
IMF/World Bank	0.7	2.1	4.1	4.1	4.3	4.2	4.5	5.0	3.8
Net debt	5.8	16.2	18.1	17.7	18.1	17.9	18.0	(NA)	(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*, 1990; and unpublished data.

No. 1486. 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 or 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	10,181	35,708	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	94	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	690	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	17,662	27,726	32,319	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	5,821	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	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	13,615	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	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	1,259	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	182	1,914	121	263	723	503	1.0	4.4	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	89	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	428	251	384	6.7	9.7	(NA)
Tunisia	3,224	4,487	5,222	6,189	2,867	1,550	1,552	1,044	3,524	4,576	28.4	31.0	31.7
Turkey	14,961	19,533	24,285	30,490	9,183	11,011	8,969	198	404	404	12.4	30.0	24.4
Uruguay	1,127	2,695	2,886	3,048	99	2,382	551	140	2,950	2,373	13.3	14.0	22.4
Venezuela	10,774	17,098	25,200	25,245	986	23,636	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	4,580	9,349	11,961	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	3,762	4,354	2,483	357	1,261	289	95	129	17.8	10.9	13.5
Zimbabwe	695	1,557	1,750	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. 1487. Net Flow of Financial Resources to Developing Countries, by Origin and Type of Resource: 1970 to 1989

[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	1982	1983	1984	1985	1986	1987	1988	1989, prel.
Development Assistance Committee countries ¹	15.9	75.4	84.2	69.8	79.1	45.2	68.8	66.4	85.6	(NA)
Official development assistance	6.9	27.3	27.7	27.6	28.7	29.4	36.7	41.6	48.1	48.8
Bilateral grants ²	3.3	14.1	13.4	14.2	15.5	17.8	21.1	23.4	26.0	27.3
Bilateral loans	2.4	4.0	5.0	4.4	4.2	4.1	5.2	6.6	7.1	7.0
Multilateral contributions ³	1.3	9.2	9.3	9.0	9.0	7.5	10.4	11.6	15.0	12.5
Other official flows	1.1	5.3	7.4	4.9	6.2	3.4	2.1	2.0	4.9	(NA)
Private flows at market terms	7.0	40.4	46.6	35.0	41.6	9.4	26.7	18.8	28.3	(NA)
Direct investment	3.7	10.1	10.4	7.8	10.9	6.5	11.0	21.0	25.1	(NA)
Private export credits	2.2	11.5	7.3	5.3	3.5	0.8	-1.7	-2.4	-1.3	(NA)
Portfolio investment	1.2	18.7	28.8	22.2	27.2	2.1	17.4	0.3	4.4	(NA)
Private voluntary agencies	0.9	2.4	2.3	2.3	2.6	2.9	3.3	4.0	4.2	(NA)
Organization of Petroleum Exporting Countries ⁴	0.6	10.8	7.7	5.9	3.7	4.1	(NA)	(NA)	(NA)	(NA)
Official development assistance	0.4	9.7	5.8	5.0	4.6	3.6	4.7	3.3	2.4	2.4
Other official flows	0.2	1.1	1.9	0.9	-0.9	0.5	(NA)	(NA)	(NA)	(NA)
Centrally-planned economies ⁵										
Official development assistance	1.0	2.6	3.1	3.5	3.4	3.6	4.6	5.0	5.0	4.7
Total net flow to developing countries, by DAC country ¹	15.9	75.4	84.2	69.8	79.1	45.2	68.8	66.4	85.6	(NA)
United States	6.4	13.9	30.2	23.0	28.6	1.8	18.2	13.8	17.5	16.4
Official development assistance	3.2	7.1	8.2	8.1	8.7	9.4	9.6	8.9	10.1	7.7
Bilateral grants ²	1.4	3.0	3.8	4.5	5.6	7.3	7.0	6.7	6.5	6.8
Bilateral loans	1.3	1.4	1.1	1.0	0.8	0.9	0.6	0.3	0.3	-
Multilateral contributions ³	0.5	2.8	3.3	2.5	2.3	1.2	2.0	1.9	3.4	0.9
Other official flows	0.1	1.1	1.6	(Z)	1.0	0.2	-0.6	-1.8	1.9	-0.5
Private flows at market terms	2.5	4.3	19.1	13.6	17.4	-9.3	7.5	4.4	3.2	7.3
Direct investment	1.9	3.4	5.5	2.3	4.4	0.9	3.1	8.0	4.2	7.8
Private export credits and portfolio investment	0.6	0.9	13.6	11.2	13.0	-10.2	4.4	-3.6	-1.0	-0.5
Private voluntary agencies	0.6	1.3	1.3	1.3	1.5	1.5	1.7	1.6	2.3	1.9
Australia	0.4	0.9	1.2	1.0	1.5	1.2	1.1	0.9	3.6	1.3
Austria	0.1	0.3	0.1	0.1	0.1	0.2	0.1	0.2	0.3	(NA)
Belgium	0.3	2.9	0.7	0.8	3.5	1.3	-0.8	-0.3	1.8	1.5
Canada	0.6	3.2	1.9	2.6	2.8	1.7	1.6	2.5	2.7	2.7
Denmark	0.1	0.8	0.8	1.1	0.6	0.4	0.5	0.9	0.7	(NA)
Finland	(Z)	0.2	0.2	0.2	0.3	0.3	0.4	0.6	0.8	(NA)
France	1.8	11.6	13.6	9.3	8.9	8.9	9.2	8.7	7.2	(NA)
Ireland	(NA)	(Z)	(Z)	(Z)	0.1	0.1	0.1	0.1	0.3	(NA)
Italy	0.7	4.0	5.0	3.1	2.3	2.2	2.6	2.0	5.1	5.8
Japan	1.8	6.8	8.9	7.9	11.7	11.6	14.6	20.3	21.2	(NA)
Netherlands	0.4	2.4	2.5	2.2	2.0	2.6	2.8	3.2	2.7	2.5
New Zealand	(Z)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	(NA)
Norway	0.1	0.9	0.8	0.7	0.6	0.6	0.7	0.9	0.9	0.9
Sweden	0.2	1.9	1.8	1.3	1.3	1.4	1.7	1.8	2.3	(NA)
Switzerland	0.1	2.7	3.2	3.3	3.4	2.5	1.4	-1.6	2.0	(NA)
United Kingdom	1.3	12.2	6.3	6.1	4.8	2.5	6.7	3.5	4.7	3.7
West Germany	1.5	10.6	7.0	7.0	6.5	5.8	7.9	8.8	11.8	(NA)

- Represents or rounds to zero. 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. 1488. Per Capita Public and Private Aid to Developing Countries: 1980 to 1988

[In dollars. See headnote, table 1487. Private aid figures exclude government subsidies to voluntary agencies. Countries are ranked by per capita gross national product in 1988]

COUNTRY	OFFICIAL DEVELOPMENT ASSISTANCE			PRIVATE VOLUNTARY AID			COUNTRY	OFFICIAL DEVELOPMENT ASSISTANCE			PRIVATE VOLUNTARY AID		
	1980	1985	1988	1980	1985	1988		1980	1985	1988	1980	1985	1988
Switzerland	40	46	92	10	8	13	France	77	72	123	1	1	2
Japan	29	31	74	(Z)	(Z)	1	Austria	24	33	40	3	2	3
Denmark	92	86	180	3	3	4	Netherlands	115	78	151	6	7	12
Norway	119	138	234	8	12	13	Belgium	60	45	63	5	2	1
Sweden	116	101	182	7	9	14	Australia	45	47	67	3	3	4
Finland	23	43	123	3	3	3	United Kingdom	33	27	46	2	3	4
West Germany	58	48	77	7	7	11	Italy	12	19	56	(Z)	(Z)	(Z)
United States	31	39	41	6	6	9	New Zealand	23	16	31	2	3	2
Canada	45	64	90	4	7	8	Ireland	9	11	16	-	6	6

- Represents or rounds to zero. Z Less than 50 cents.

Source: Organization for Economic Cooperation and Development, Paris, France, unpublished data.

No. 1489. Military Expenditures in Current and Constant (1988) Dollars: 1980 to 1988

[In millions of dollars, except as indicated. See also table 548. For most countries, data for expenditures and for GNP were based on local currencies which were deflated to constant 1988 local currency values before conversion to U.S. dollar equivalents. In general, the rates used for conversion are the 1988 average par/market exchange rates as supplied by the International Bank for Reconstruction and Development]

COUNTRY	CURRENT DOLLARS				CONSTANT (1988) DOLLARS				Per capita (dollars)		Percent of GNP ¹	
	1980	1985	1987	1988	1980	1985	1987	1988	1980	1988	1980	1988
United States	144,000	265,800	296,200	307,700	203,700	290,500	306,000	307,700	894	1,250	5.3	6.3
Algeria	1,188	1,248	1,488	1,784	1,681	1,365	1,536	1,784	89	74	3.9	3.4
Argentina	2,712	2,789	2,400	2,972	3,837	3,049	2,447	2,972	136	94	3.6	3.1
Australia	3,006	5,195	5,729	6,170	4,253	5,678	5,918	6,170	291	379	2.3	2.7
Austria	895	2,147	1,441	1,426	1,266	2,158	1,488	1,426	168	168	1.1	1.2
Belgium	3,148	3,837	4,158	4,097	4,454	4,194	4,295	4,097	452	415	3.3	2.7
Brazil	1,559	2,402	3,356	1,209	2,206	2,626	3,467	1,209	18	8	0.7	0.3
Bulgaria	4,088	5,953	6,644	6,842	5,784	6,507	6,863	6,842	654	763	11.7	12.7
Canada	4,993	8,547	9,594	10,020	7,065	9,343	9,911	10,020	293	384	1.9	2.1
Chile	452	622	825	808	639	680	852	808	58	64	3.6	4.0
China:												
Mainland ²	18,370	19,890	20,510	21,270	23,160	21,740	21,180	21,270	24	20	9.1	3.9
Taiwan	2,982	5,939	5,107	6,156	4,219	6,492	5,276	6,156	237	308	6.5	5.2
Cuba	1,140	1,603	1,306	1,326	1,613	1,752	1,349	1,326	167	128	6.5	3.8
Czechoslovakia	5,687	8,625	9,551	9,818	8,046	9,428	9,866	9,818	527	629	6.5	7.1
Denmark	1,610	2,095	2,205	2,320	2,278	2,290	2,278	2,320	445	453	2.5	2.2
East Germany	7,895	12,150	13,700	14,320	11,170	13,280	14,150	14,320	667	863	6.9	7.7
Egypt	3,402	7,911	8,038	6,086	4,813	8,647	8,303	6,086	114	114	9.5	7.8
El Salvador	117	269	244	212	166	294	252	212	35	39	2.7	3.8
Finland	891	1,326	1,566	2,701	1,260	1,450	1,618	2,701	264	344	1.6	1.7
France	22,700	31,620	34,930	35,950	32,120	34,570	36,090	35,950	596	644	4.0	3.9
Greece	1,894	3,250	3,053	3,378	2,679	3,552	3,163	3,378	278	337	5.5	6.5
Hungary	2,965	3,939	4,217	4,489	4,195	4,306	4,356	4,489	392	424	6.3	6.3
India	3,922	7,373	9,171	9,458	5,549	8,059	9,474	9,458	8	12	3.2	3.5
Indonesia	1,197	1,515	1,480	1,400	1,693	1,655	1,529	1,400	11	8	3.1	1.8
Iran	14,700	24,770	(NA)	(NA)	20,800	27,070	(NA)	(NA)	531	(NA)	8.6	(NA)
Iraq	19,810	18,970	(NA)	(NA)	28,030	20,730	(NA)	(NA)	2,124	(NA)	22.5	(NA)
Israel	7,018	7,425	6,101	6,001	9,929	8,116	6,302	6,001	2,657	1,396	29.2	13.8
Italy	10,080	15,540	16,570	20,430	14,230	16,990	19,150	20,430	252	356	2.1	2.6
Japan	13,660	22,870	28,640	28,870	19,320	25,000	27,550	28,870	165	235	0.9	1.0
Kuwait	939	1,606	1,330	1,340	1,328	1,755	1,373	1,340	970	692	2.9	5.1
Malaysia	708	2,971	1,307	908	1,002	2,062	1,350	908	73	55	4.4	2.8
Mexico	448	1,032	969	1,016	634	1,128	898	1,016	9	12	0.4	0.6
Morocco	275	(NA)	2,156	1,138	2,071	(NA)	2,194	1,138	52	46	7.6	6.0
Netherlands	4,440	5,990	6,556	6,729	6,282	6,548	6,773	6,729	444	457	3.1	3.0
Nicaragua	249	2176	(NA)	(NA)	269	2192	(NA)	(NA)	25	(NA)	5.8	(NA)
Nigeria	505	333	202	223	715	363	208	223	8	2	2.4	0.8
North Korea	4,380	5,260	5,640	5,840	6,197	5,750	5,826	5,840	346	266	20.0	20.0
Norway	1,488	2,421	2,930	2,895	2,105	2,646	3,027	2,895	515	691	3.0	3.2
Oman	1,059	1,937	1,518	1,371	1,498	2,118	1,568	1,371	1,522	1,083	22.1	19.1
Pakistan	845	1,905	2,287	2,516	1,196	2,082	2,362	2,516	14	23	5.4	6.9
Peru	1,318	2,108	2,135	(NA)	1,865	2,304	2,205	(NA)	108	(NA)	5.0	(NA)
Philippines	505	408	653	680	715	446	675	680	14	11	1.9	1.7
Poland	9,916	15,080	15,810	15,660	14,030	16,480	16,330	15,660	394	413	8.2	8.7
Portugal	867	1,061	1,196	1,347	1,226	1,160	1,236	1,347	125	130	3.6	3.3
Qatar	604	(NA)	(NA)	(NA)	855	(NA)	(NA)	(NA)	3,707	(NA)	9.3	(NA)
Romania	4,585	6,768	7,431	7,670	6,487	7,398	7,676	7,670	292	333	6.0	6.5
Saudi Arabia	14,990	21,340	21,620	13,560	21,210	23,320	21,670	13,560	2,090	878	14.3	16.5
Singapore	514	1,085	1,105	1,321	727	1,187	1,142	1,321	301	499	5.2	5.3
South Africa	2,594	2,644	2,353	3,607	3,669	2,890	2,346	3,607	126	103	5.2	4.3
South Korea	3,607	5,630	6,427	7,202	5,103	6,154	6,639	7,202	134	168	6.1	4.3
Soviet Union	198,200	277,200	303,000	299,800	280,400	303,000	313,000	299,800	1,053	1,047	12.9	11.9
Spain	4,489	6,528	7,441	7,171	6,351	7,136	7,686	7,171	169	183	2.3	2.2
Sweden	3,324	4,473	4,697	4,975	4,703	4,889	4,852	4,975	566	593	3.1	2.8
Switzerland	2,746	2,885	2,768	2,888	3,885	2,247	2,892	2,888	609	590	2.4	2.1
Syria	1,601	2,959	2,172	2,164	2,265	2,235	2,152	2,164	261	139	17.2	10.9
Thailand	1,004	1,801	1,717	1,718	1,420	1,969	1,774	1,718	30	31	4.1	3.1
Turkey	1,540	2,404	2,807	2,664	2,179	2,628	2,900	2,664	48	49	4.8	3.9
United Arab Emirates	1,724	2,190	1,590	1,587	2,440	2,078	1,642	1,587	2,439	801	5.7	6.8
United Kingdom	22,960	33,890	34,780	34,680	32,490	37,050	35,930	34,680	577	609	5.0	4.3
Venezuela	441	491	2,153	2,848	624	537	2,146	2,848	42	45	1.1	1.4
West Germany	24,430	32,710	34,420	35,100	34,570	35,760	35,560	35,100	562	576	3.3	2.9
Yugoslavia	1,809	2,042	2,665	2,080	2,559	2,232	2,753	2,080	115	88	4.3	3.4

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 548. ² Estimated. ³ Data probably omit a major share of total military expenditures, probably including most arms acquisitions.

Source: U.S. Arms Control and Disarmament Agency, *World Military Expenditures and Arms Transfers*, annual.

No. 1490. Armed Forces Personnel—Number and Rate, by Country: 1980 to 1988

[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	1984	1985	1986	1987	1988	1980	1984	1985	1986	1987	1988
United States	2,050	2,222	2,244	2,269	2,279	2,246	9.0	9.4	9.4	9.4	9.3	9.1
Algeria	101	170	170	180	170	126	5.4	8.0	7.7	7.9	7.2	5.2
Argentina	155	174	129	104	118	95	5.5	5.8	4.3	3.4	3.8	3.0
Australia	71	71	70	71	70	71	4.9	4.6	4.5	4.5	4.4	4.3
Austria	40	40	40	39	70	55	5.3	5.3	5.3	5.2	9.2	7.2
Belgium	108	107	107	107	109	110	11.0	10.9	10.9	10.8	11.0	11.1
Brazil	450	459	496	527	541	319	3.7	3.4	3.5	3.7	3.7	2.1
Bulgaria	188	189	189	190	191	160	21.2	21.2	21.2	21.2	21.3	17.8
Canada	82	82	83	85	86	88	3.4	3.3	3.3	3.3	3.3	3.4
Chile	116	123	124	127	127	96	10.5	10.4	10.3	10.3	10.2	7.6
China: Mainland	4,650	4,100	4,100	4,030	3,530	3,783	4.7	4.0	3.9	3.8	3.3	3.5
Taiwan	465	470	440	390	365	390	26.1	24.7	22.8	20.0	18.5	19.5
Cuba	220	297	297	297	297	297	22.8	29.8	29.5	28.9	28.9	28.7
Czechoslovakia	190	206	210	214	215	211	12.5	13.3	13.5	13.8	13.8	13.5
Denmark	33	31	29	28	28	30	6.4	6.1	5.7	5.5	5.5	5.9
East Germany	228	240	242	242	241	242	13.6	14.4	14.5	14.6	14.5	14.6
Egypt	447	466	466	400	450	452	10.6	9.8	9.5	7.9	8.7	8.5
El Salvador	16	45	48	48	49	45	3.4	9.2	9.6	9.3	9.3	8.4
Finland	36	40	(NA)	37	37	36	7.5	8.2	(NA)	7.4	7.4	7.2
France	575	571	563	558	559	558	10.7	10.4	10.2	10.1	10.1	10.0
Greece	186	197	201	202	199	199	19.3	19.9	20.2	20.3	19.9	19.9
Honduras	14	20	21	22	22	19	3.7	4.6	4.7	4.6	4.5	3.8
Hungary	120	118	117	116	116	117	11.2	11.0	11.0	10.9	10.9	11.0
India	1,104	1,380	1,515	1,492	1,502	1,362	1.6	1.8	2.0	1.9	1.9	1.7
Indonesia	250	281	281	278	281	284	1.6	1.7	1.6	1.6	1.6	1.5
Iran	305	335	345	345	350	654	7.8	7.4	7.3	7.1	7.0	12.6
Iraq	430	788	788	800	900	1,000	32.6	51.7	49.9	48.8	53.0	56.9
Israel	196	205	195	180	180	191	52.4	51.2	47.8	43.4	42.6	44.4
Italy	500	508	531	529	531	446	8.9	8.9	9.3	9.2	9.3	7.8
Japan	242	241	241	245	244	245	2.1	2.0	2.0	2.0	2.0	2.0
Kuwait	12	15	16	18	20	15	8.8	9.2	9.3	10.1	10.7	7.7
Malaysia	83	105	106	106	106	108	6.0	7.0	6.9	6.7	6.6	6.6
Mexico	120	129	140	141	141	154	1.7	1.7	1.8	1.8	1.7	1.8
Morocco	117	149	165	185	200	195	5.7	6.6	7.1	7.8	8.2	7.8
Netherlands	107	103	103	106	106	107	7.6	7.1	7.1	7.3	7.2	7.3
Nicaragua	24	67	74	75	80	74	8.6	21.6	23.4	23.1	24.1	21.7
Nigeria	150	144	134	138	138	107	1.7	1.4	1.3	1.3	1.3	1.0
North Korea	700	784	784	838	838	842	39.1	39.9	38.5	40.1	39.1	38.3
Norway	40	39	36	38	38	40	9.7	9.4	8.7	9.1	9.1	9.5
Oman	15	25	25	26	27	27	15.2	22.4	21.7	21.9	22.0	21.0
Pakistan	467	646	644	573	572	484	5.5	6.7	6.5	5.6	5.5	4.5
Peru	151	135	128	127	127	111	8.7	7.0	6.5	6.3	6.1	5.2
Philippines	155	157	157	161	161	105	3.0	2.8	2.7	2.7	2.6	1.7
Poland	408	434	439	443	441	430	11.5	11.7	11.8	11.8	11.7	11.3
Portugal	88	100	102	101	105	104	9.0	9.9	10.0	9.9	10.2	10.0
Qatar	6	6	7	9	11	7	26.0	21.5	24.0	29.7	34.8	21.3
Romania	211	236	237	238	248	220	9.5	10.4	10.4	10.4	10.8	9.5
Saudi Arabia	79	80	80	80	80	84	7.8	6.3	6.0	5.7	5.4	5.4
Singapore	50	59	59	56	55	56	20.7	23.3	23.1	21.5	21.0	21.0
South Africa	70	97	95	90	102	100	2.4	3.0	2.9	2.7	3.0	2.8
South Korea	600	602	600	604	604	628	15.7	14.9	14.6	14.5	14.3	14.6
Soviet Union	3,900	3,900	3,900	3,900	3,900	3,900	14.6	14.1	14.0	13.9	13.7	13.6
Spain	356	342	314	314	314	304	9.5	8.9	8.1	8.1	8.1	7.7
Sweden	70	69	(NA)	66	66	65	8.4	8.3	(NA)	7.8	7.8	7.8
Switzerland	23	25	(NA)	21	20	23	3.6	3.8	(NA)	3.2	3.0	3.5
Syria	250	402	402	400	400	400	28.8	40.2	38.8	37.2	35.9	34.6
Thailand	234	250	270	275	275	273	5.0	4.9	5.2	5.2	5.1	5.0
Turkey	717	815	814	860	879	847	15.9	16.5	16.1	16.6	16.6	15.6
United Arab Emirates	44	44	44	44	44	43	44.0	30.6	28.0	25.7	23.8	21.7
United Kingdom	330	336	334	331	328	324	5.9	5.9	5.9	5.8	5.8	5.7
Venezuela	55	64	71	66	69	73	3.7	3.8	4.1	3.7	3.8	3.9
Vietnam	900	1,000	1,000	1,300	1,300	1,100	16.8	16.9	16.5	21.0	20.4	16.9
West Germany	490	487	495	495	495	495	8.0	8.0	8.1	8.1	8.1	8.1
Yugoslavia	260	259	258	234	234	229	11.6	11.3	11.2	10.0	10.0	9.7

NA Not available.

Source: U.S. Arms Control and Disarmament Agency, *World Military Expenditures and Arms Transfers*, annual.