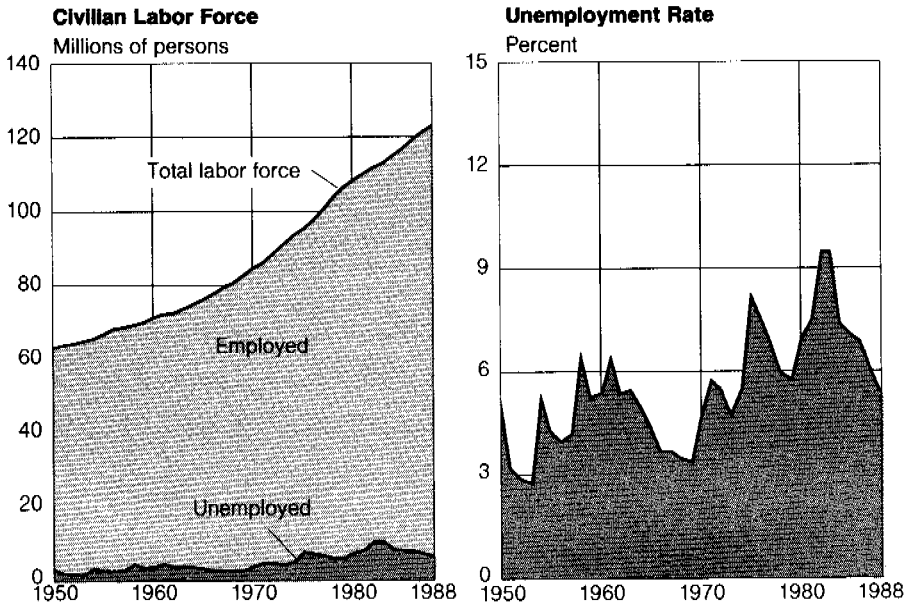
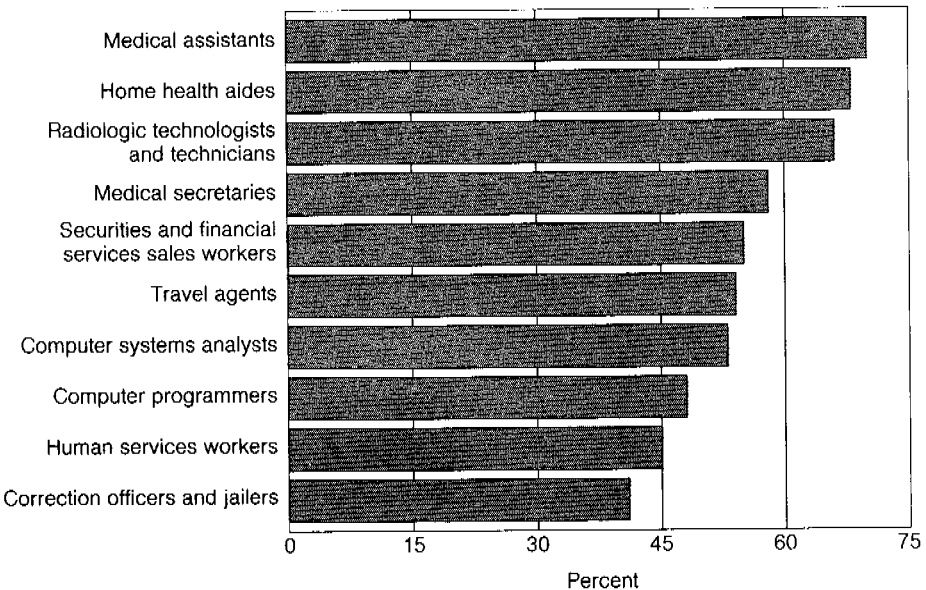


Figure 13.1  
**Labor Force Trends: 1950 to 1988**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 624.

Figure 13.2  
**Projected Percent Change in Employment for 10 Fastest Growing Occupations: 1988 to 2000**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 646.



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## Section 13

# Labor Force, Employment, and Earnings

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This section presents data on the labor force; its distribution by occupation and industry affiliation; and the supply of, demand for, and conditions of labor. The chief source of these data is the Current Population Survey conducted by the U.S. Bureau of the Census. Comprehensive historical data are published by the Bureau of Labor Statistics (BLS) in *Labor Force Statistics Derived From the Current Population Survey, 1948-87, BLS Bulletin 2307*. These data are supplemented on a current basis by the BLS monthly publications *Employment and Earnings* and the *Monthly Labor Review*. Detailed data on the labor force are also available from the Census Bureau's decennial census of population.

**Types of data.**—Most statistics in this section are obtained by two methods: household interviews or questionnaires, and reports of establishment payroll records. Each method provides data which the other cannot suitably supply. Population characteristics, for example, are readily obtainable only from the household survey, while detailed industrial classifications can be readily derived only from establishment records.

Household data are obtained from a monthly sample survey of the population. The Current Population Survey (CPS) is used to gather data for the week including the 12th of the month, and provides current comprehensive data on the labor force (see text, section 1). The CPS provides information on the work status of the population without duplication since each person is classified as employed, unemployed, or not in the labor force. Employed persons holding more than one job are counted only once, according to the job at which they work the most hours during the survey week.

Monthly data from the CPS are published by the Bureau of Labor Statistics in *Employment and Earnings* and the related reports mentioned above. Data presented include national totals by sex, race, Hispanic origin, and age, of the number of persons in the civilian labor force; the number employed, hours of work; industry and occupational groups; and the number unemployed, reasons for, and duration of unemployment. Monthly data from the CPS are also presented for 11 large States. Annual data shown in this section are averages of monthly figures for each calendar year, unless otherwise specified.

In addition to monthly data, the CPS also produces annual estimates of employment and unemployment for each State, 50 large metropolitan statistical areas and selected cities. These estimates are published by BLS in its annual *Geographic Profile of Employment and Unemployment*. More detailed geographic data (e.g., for counties and cities) are provided by the decennial population censuses.

Data based on establishment records are compiled by BLS and cooperating State agencies as part of an ongoing Current Employment Statistics Program. Data, gathered from a sample of employers who voluntarily complete mail questionnaires monthly, are supplemented by data from other government agencies and adjusted at intervals to data from government social insurance program reports. The estimates exclude proprietors of unincorporated firms, self-employed persons, private household workers, unpaid family workers, agricultural workers, and the Armed Forces. In March 1988, reporting establishments employed 9 million manufacturing workers (49 percent of the total manufacturing employment at the time), 16 million workers in nonmanufacturing industries (24 percent of the total in nonmanufacturing), and 13 million Federal, State, and local government employees (74 percent of total government).

The establishment survey counts workers each time they appear on a payroll during the reference week (as with the CPS, the week including the 12th of the month). Thus, unlike the CPS, a person with two jobs is counted twice. The establishment survey is designed to provide detailed industry information for the Nation, States, and metropolitan areas on nonagricultural wage and salary employment, average weekly hours, and average hourly and weekly earnings. Establishment survey data are published in *Employment and Earnings* and the *Monthly Labor Review*, cited above. Historical national and geographic data are published in *BLS Bulletin 1312-12, Employment,*

*Hours, and Earnings, United States, 1909-84 and Bulletin 2320, Employment, Hours, and Earnings* is forthcoming.

**Labor force.**—According to the CPS definitions, the civilian labor force comprises all civilians in the noninstitutional population 16 years and over classified as “employed” or “unemployed” according to the criteria below: Employed civilians comprise (a) all civilians, who, during the reference week, did any work for pay or profit (minimum of an hour’s work) or worked 15 hours or more as unpaid workers in a family enterprise, and (b) all civilians who were not working but who had jobs or businesses from which they were temporarily absent for noneconomic reasons (illness, weather conditions, vacation, labor-management dispute, etc.). Unemployed persons comprise all civilians who had no employment during the reference week, who made specific efforts to find a job within the previous four weeks (such as applying directly to an employer, or to a public employment service, or checking with friends) and who were available for work during that week, except for temporary illness. Persons on layoff from a job or waiting to report to a new job within 30 days are also classified as unemployed if they are available for work. All other civilian persons, 16 years old and over, are “not in the labor force.” The labor force includes, in addition to the civilian employed and unemployed, members of the Armed Forces stationed in the United States. They are also included in the employed totals.

Beginning in 1982, changes in the estimation procedures and the introduction of 1980 census data caused substantial increases in the population and estimates of persons in all labor force categories. Rates on labor force characteristics, however, were essentially unchanged. In order to avoid major breaks in series, some 30,000 labor force series were adjusted back to 1970. The effect of the 1982 revisions on various data series and an explanation of the adjustment procedure used are described in “Revisions in the Current Population Survey in January 1982,” in the February 1982 issue of *Employment and Earnings*. The revisions did not, however, smooth out the breaks in series occurring between 1972 and 1979, and data users should make allowances for them in making certain data comparisons.

Beginning in January 1985, the CPS estimation procedure was revised due to the implementation of a new sample design. A description of the changes and an indication of their effect on the national estimates of labor force characteristics appear in “Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985” in the February 1985 issue of *Employment and Earnings*. Overall, the revisions had only a slight effect on most estimates. The greatest impact was on estimates of persons of Hispanic origin, which were revised to the extent possible, back to January 1980.

Beginning in January 1986, the CPS estimation procedure was revised to reflect an explicit estimate of the number of undocumented immigrants (largely Hispanic) since 1980 and an improved estimate of the number of legal foreign-born emigrants for the same time period. The revisions had a comparatively small effect on the total population and labor force estimates, but their effect on the estimates of persons of Hispanic origin was more pronounced. As a result, data for Hispanics, to the extent possible, were again revised back to January 1980. An explanation of the changes and their effect on estimates of labor force characteristics appears in “Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986” in the February 1986 issue of *Employment and Earnings*.

**Hours and earnings.**—Average hourly earnings, based on establishment data, are gross earnings (i.e., earnings before payroll deductions) and include overtime premiums; they exclude irregular bonuses and value of payments in kind. Hours are those for which pay was received. Wages and salaries from the CPS consist of total monies received for work performed by an employee during the income year. It includes wages, salaries, commissions, tips, piece-rate payments, and cash bonuses earned before deductions were made for taxes, bonds, union dues, etc. Persons who worked 35 hours or more are classified as working full time (see table B42).

**Industrial and occupational groups.**—Establishments responding to the establishment survey are classified into industries on the basis of their principal product or activity (determined by annual sales volume) in accordance with the Standard Industrial Classification (SIC) Manual, Office of Management and Budget. The SIC is a classification structure for the entire national economy. The structure provides data on a division and industry code basis, according to the level of industrial detail. For example, manufacturing is a major industrial division, food and kindred products (code 20) is one of its major groups. One of the ways this group is further divided is into meat products (code 201) and meat packing plants (code 2011). Periodically, the SIC is revised to reflect changes in the industrial composition of the economy. (The 1987 SIC Manual has been issued. Unless otherwise stated, data shown in this *Abstract* are classified according to the 1972 SIC).

Industry data derived from the CPS beginning in January 1983 utilize the industrial classification developed for the 1980 Census of Population. CPS data from 1971 to 1982 were based on the

1970 census classification system. Both population census systems are developed from the SIC. The 1970 system is based on the 1967 SIC, whereas, the 1980 system relates to the 1972 edition, as modified in 1977. Most of the industry categories were not affected by the change in classification.

The occupational classification system used in the 1980 census and in the CPS beginning in January 1983, evolved from the 1980 Standard Occupational Classification (SOC) system, first introduced in 1977. Occupational categories used in the 1980 census classification system are so radically different from the 1970 census system used in the CPS through 1982, that their implementation represented a break in historical data series. In cases where data have not yet been converted to the 1980 classifications and still reflect the 1970 classifications, comparisons between the two systems should not be made. To help users bridge the data gap, a limited set of estimates was developed for the 1972-1982 period based on the new classifications. The estimates were developed by means of applying conversion factors created by double coding a 20-percent sample of CPS occupational records for 6 months during 1981-82. For further details, contact BLS.

**Productivity.**—The Bureau of Labor Statistics (BLS) publishes data on productivity as measured by output per hour (labor productivity), output per combined unit of labor and capital input (multifactor productivity), and, for manufacturing industries, output per combined unit of capital, labor, energy, materials, and purchased service inputs. Labor productivity and related indexes are published for the business sector as a whole and its major subsectors: nonfarm business, manufacturing, nonfinancial corporations, 146 specific industries, and various functional areas of the Federal civilian government. Multifactor productivity and related measures are published for the private business sector and its major subsectors. Productivity indexes which take into account capital, labor, energy, materials, and service inputs are published for the 20 major 2-digit industry groups which comprise the manufacturing sector, and for the steel and motor vehicle industries. The major sector data are published in the BLS quarterly news release, *Productivity and Costs* and in the annual *Multifactor Productivity Measures* release. The specific industry productivity measures are published annually in the BLS Bulletin, *Productivity Measures for Selected Industries*, and the *Handbook of Labor Statistics*. Detailed information on methods, limitations, and data sources appears in the *BLS Handbook of Methods*, BLS Bulletin 2285 (1988), chapters 10 and 11.

**Unions.**—As defined here, unions include traditional labor unions and employee associations similar to labor unions. Data on union membership status provided by BLS are for employed wage and salary workers and relate to their principal job. Earnings by union membership status are usual weekly earnings of full-time wage and salary workers. The information is collected through the Current Population Survey. For a full description of the method of collection and comparability with earlier data, see "New Data on Union Members and Their Earnings" in the January 1985 issue of *Employment and Earnings*, and "Changing Employment Patterns of Organized Workers" in the February 1985 issue of the *Monthly Labor Review*. Collective bargaining settlements data are available for bargaining situations involving 1,000 or more workers in private industry and State and local government.

**Work stoppages.**—Work stoppages include all strikes and lockouts known to BLS which last for at least one full day or shift and involve 1,000 or more workers. All stoppages, whether or not authorized by a union, legal or illegal, are counted. Excluded are work slowdowns and instances where employees report to work late, or leave early, to attend mass meetings or mass rallies.

**Seasonal adjustment.**—Many economic statistics reflect a regularly recurring seasonal movement which can be estimated on the basis of past experience. By eliminating that part of the change which can be ascribed to usual seasonal variation (e.g., climate or school openings and closings), it is possible to observe the cyclical and other nonseasonal movements in the series. However, in evaluating deviations from the seasonal pattern—that is, changes in a seasonally adjusted series—it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, since they are subject not only to sampling and other errors, but also are affected by the uncertainties of the adjustment process itself.

**Statistical reliability.**—For discussion of statistical collection, estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau and BLS 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.

Labor Force, Employment, and Earnings

No. 624. EMPLOYMENT STATUS OF THE NONINSTITUTIONAL POPULATION 16 YEARS OLD AND OVER:  
1950 TO 1988

[In thousands, except as indicated. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series D 11-19 and D 85-86]

YEAR	Noninstitutional population	LABOR FORCE							Not in labor force	
		Number	Employed				Unemployed			
			Total	Resident Armed Forces	Civilian		Number	Percent of labor force <sup>1</sup>		
Total	Total	Agri-culture	Non agricultural industries	Number	Percent of labor force <sup>1</sup>					
1950.....	106,164	63,377	60,087	1,169	58,918	7,160	51,758	3,268	5.2	42,787
1960.....	119,106	71,489	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617
1965.....	128,459	76,401	73,034	1,946	71,088	4,361	66,726	3,966	4.4	52,058
1970.....	139,203	84,889	80,796	2,118	78,678	3,463	75,215	4,083	4.8	54,315
1975.....	154,831	95,453	87,524	1,676	85,846	3,408	82,438	7,929	8.3	59,377
1976.....	157,818	97,826	90,420	1,868	88,752	3,331	85,421	7,406	7.6	59,991
1977.....	160,689	100,665	93,873	1,656	92,017	3,283	88,734	6,991	6.9	60,025
1978.....	163,541	103,882	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659
1979.....	166,460	106,559	100,421	1,597	98,824	3,347	95,477	6,137	5.8	58,900
1980.....	169,349	108,544	100,907	1,604	98,303	3,364	95,938	6,737	7.0	60,808
1981.....	171,775	110,315	102,042	1,645	100,397	3,368	97,030	6,273	7.5	61,460
1982.....	173,939	111,872	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067
1983.....	175,891	113,226	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665
1984.....	178,080	115,241	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839
1985.....	179,912	117,167	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744
1986.....	182,293	119,540	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752
1987.....	184,490	121,802	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888
1988.....	186,322	123,378	116,677	1,709	114,968	3,169	111,800	6,701	5.4	62,944
PERCENT DISTRIBUTION										
1950.....	100.0	59.7	56.6	1.1	55.5	6.7	48.8	3.1	(X)	40.3
1960.....	100.0	60.0	56.8	1.6	55.2	4.6	50.6	3.2	(X)	40.0
1970.....	100.0	61.0	58.0	1.5	56.5	2.5	54.0	2.9	(X)	39.0
1980.....	100.0	64.1	59.6	.9	58.6	2.0	56.7	4.5	(X)	35.9
1985.....	100.0	65.1	60.5	.9	59.6	1.8	57.8	4.6	(X)	34.9
1988.....	100.0	66.2	62.6	.9	61.7	1.7	60.0	3.6	(X)	33.8

X Not applicable. <sup>1</sup> Unemployment as a percent of the labor force, including resident Armed Forces.  
Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

No. 625. CIVILIAN LABOR FORCE AND PARTICIPATION RATES BY RACE, HISPANIC ORIGIN, SEX, AND AGE, 1970 TO 1988, AND PROJECTIONS, 2000

[For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Rates are based on annual average civilian noninstitutional population of each specified group and represent proportion of each specified group in the civilian labor force. Based on Current Population Survey; see text, section 1 and Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series D 42-48]

RACE, SEX, AND AGE	CIVILIAN LABOR FORCE (millions)							PARTICIPATION RATE (percent)						
	1970	1975	1980	1985	1987	1988	2000	1970	1975	1980	1985	1987	1988	2000
Total <sup>1</sup> .....	82.8	93.8	106.9	115.5	119.9	121.7	141.1	60.4	61.2	63.8	64.6	65.6	65.9	69.0
White.....	73.6	82.8	93.6	99.9	103.3	104.8	119.0	60.2	61.5	64.1	65.0	65.8	66.2	69.5
Male.....	46.0	50.3	54.5	56.5	57.8	58.3	63.3	60.0	78.7	78.2	77.0	76.8	76.9	76.6
Female.....	27.5	32.5	39.1	43.5	45.5	46.4	55.7	42.6	45.9	51.2	54.1	55.7	56.4	62.9
Black <sup>2</sup> .....	8.2	9.3	10.9	12.4	13.0	13.2	16.5	61.8	58.8	61.0	62.9	63.8	63.8	66.5
Male.....	5.2	5.0	5.6	6.2	6.5	6.6	8.0	78.5	71.0	70.6	70.8	71.1	71.0	71.4
Female.....	4.0	4.2	5.3	6.1	6.5	6.6	8.5	49.5	48.9	53.2	56.5	58.0	58.0	62.5
Hispanic <sup>3</sup> .....	(NA)	(NA)	6.1	7.7	8.5	9.0	14.3	(NA)	(NA)	64.0	64.6	66.4	67.4	69.9
Male.....	(NA)	(NA)	3.8	4.7	5.2	5.4	8.3	(NA)	(NA)	81.4	80.3	81.0	81.9	80.3
Female.....	(NA)	(NA)	2.3	3.0	3.4	3.6	6.0	(NA)	(NA)	47.4	49.3	52.0	53.2	59.4
Male.....	51.2	56.3	61.5	64.4	66.2	66.9	74.3	79.7	77.9	77.4	76.3	76.2	76.2	75.9
16-19 years.....	4.0	4.8	5.0	4.1	4.1	4.2	4.4	56.1	59.1	60.5	56.8	56.1	56.9	59.0
18 and 17 years.....	1.8	2.1	2.1	1.7	1.7	1.7	1.9	47.0	48.8	50.1	45.1	45.6	48.1	48.7
18 and 19 years.....	2.2	2.7	2.9	2.5	2.4	2.4	2.5	66.7	70.6	71.3	68.9	67.4	68.1	69.7
25-34 years.....	5.7	7.6	8.6	8.3	7.8	7.6	8.8	83.3	84.5	85.9	85.0	85.2	85.0	86.5
25-34 years.....	11.3	14.2	17.0	18.8	19.7	19.7	18.8	96.4	95.6	95.2	94.7	94.6	94.3	94.1
35-44 years.....	10.5	10.4	11.8	14.5	15.6	16.1	20.2	96.9	95.6	95.5	95.0	94.6	94.5	94.3
45-54 years.....	10.4	10.4	9.9	9.9	10.2	10.8	16.4	94.3	92.1	91.2	91.0	90.7	90.9	90.5
55-64 years.....	7.1	7.0	7.2	7.1	6.9	6.8	7.8	83.0	75.6	72.1	67.9	67.6	67.0	68.1
65 years and over.....	2.2	1.9	1.9	1.8	1.9	2.0	2.6	26.8	21.6	19.0	15.8	16.3	16.5	14.7
Female.....	31.5	37.5	45.5	51.1	53.7	54.7	66.8	43.3	46.3	51.5	54.5	56.0	56.6	62.6
16-19 years.....	3.2	4.1	4.4	3.8	3.9	3.9	4.4	44.0	49.1	52.9	52.1	53.3	53.6	59.5
16 and 17 years.....	1.3	1.7	1.8	1.5	1.6	1.6	1.8	34.9	40.2	43.6	42.1	44.6	44.0	49.8
18 and 19 years.....	1.9	2.4	2.6	2.3	2.2	2.3	2.6	53.5	58.1	61.9	61.7	62.2	62.9	69.0
20-24 years.....	4.9	6.2	7.3	7.4	7.1	6.9	6.7	57.7	64.1	68.9	71.8	73.0	72.7	77.9
25-34 years.....	5.7	8.7	12.3	14.7	15.6	15.8	15.1	45.0	54.9	65.5	70.9	72.4	72.7	82.4
35-44 years.....	6.0	6.5	8.6	11.6	12.9	13.4	18.6	51.1	55.8	66.5	71.8	74.5	75.2	84.9
45-54 years.....	6.5	6.7	7.0	7.5	8.0	8.5	14.4	54.4	64.6	69.9	84.4	67.1	69.0	76.5
55-64 years.....	4.2	4.3	4.7	4.9	4.9	5.0	6.1	43.0	40.9	41.3	42.0	42.7	43.5	49.0
65 years and over.....	1.1	1.0	1.2	1.2	1.2	1.3	1.4	9.7	8.2	8.1	7.3	7.4	7.8	7.6

NA Not available. <sup>1</sup> Beginning 1975, includes other races not shown separately. <sup>2</sup> For 1970, Black and other.  
<sup>3</sup> Hispanic persons may be of any race.  
Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly; *Monthly Labor Review*, November 1989; and unpublished data.

**NO. 626. HISPANIC PERSONS—CIVILIAN LABOR FORCE PARTICIPATION: 1987 AND 1988**

[For civilian noninstitutional population, 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III]

ITEM	1987					1988				
	Total	Mexican	Puerto Rican	Cuban	Other Hispanic origin <sup>1</sup>	Total	Mexican	Puerto Rican	Cuban	Other Hispanic origin <sup>1</sup>
<b>Total (1,000)</b> .....	<b>12,867</b>	<b>7,651</b>	<b>1,540</b>	<b>819</b>	<b>2,857</b>	<b>13,325</b>	<b>8,013</b>	<b>1,599</b>	<b>849</b>	<b>2,864</b>
Percent in labor force: Male.....	81.0	82.7	72.3	77.6	81.4	81.9	84.2	72.8	78.9	80.4
Female.....	52.0	52.4	39.3	55.8	57.1	53.2	53.9	41.4	54.9	57.8
<b>Employed (1,000)</b> .....	<b>7,790</b>	<b>5,690</b>	<b>744</b>	<b>518</b>	<b>1,838</b>	<b>8,250</b>	<b>5,066</b>	<b>807</b>	<b>537</b>	<b>1,840</b>
Percent.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional	13.1	10.9	14.1	22.2	15.5	13.2	10.2	15.8	24.2	16.9
Tech., sales, and admin. support	25.3	22.8	29.4	34.9	27.3	25.0	22.1	28.7	34.6	28.6
Service	17.6	16.9	17.7	11.8	20.8	18.9	19.2	17.7	11.2	21.0
Precision production, craft, and repair	13.9	14.7	12.8	13.0	12.7	13.5	14.3	13.6	11.7	11.9
Operators, fabricators and laborers	24.3	26.1	24.6	17.0	21.5	23.9	26.2	23.6	17.7	19.7
Farming, forestry, and fishing occupations	5.9	8.6	1.3	1.2	2.3	5.4	8.0	.7	.6	1.8
Percent unemployed: Male.....	8.7	9.5	10.4	5.1	6.7	8.1	8.7	9.0	4.8	6.5
Female.....	8.9	10.4	9.6	5.3	6.0	8.3	9.6	8.1	5.2	6.1

<sup>1</sup> Includes Central or South American and other Hispanic origin.

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

**NO. 627. CIVILIAN LABOR FORCE AND PARTICIPATION RATES, BY EDUCATIONAL ATTAINMENT, SEX, AND RACE: 1970 TO 1988**

[As of March. For civilian noninstitutional population 25 to 64 years of age. See headnote, table 625]

ITEM	CIVILIAN LABOR FORCE					PARTICIPATION RATE <sup>1</sup>				
	Total (1,000)	Percent distribution				Total	Less than high school	High school graduate	College	
		Less than high school	High school graduate	College					1-3 years	4 years or more
<b>Total: <sup>2</sup> 1970</b> .....	<b>61,765</b>	<b>36.1</b>	<b>38.1</b>	<b>11.8</b>	<b>14.1</b>	<b>70.3</b>	<b>65.5</b>	<b>70.2</b>	<b>73.8</b>	<b>82.3</b>
1975.....	67,774	27.5	39.7	14.4	18.3	70.5	61.6	70.5	75.7	84.5
1980.....	78,010	20.6	39.8	17.6	22.0	73.9	60.7	74.2	79.5	86.1
1985.....	88,424	15.9	40.2	19.0	24.9	76.2	59.9	75.9	81.6	87.7
1986.....	90,500	15.9	40.2	19.5	24.8	76.4	60.4	76.0	81.2	87.6
1987.....	92,966	14.9	40.2	19.7	25.3	77.2	60.9	76.6	81.9	88.1
1988.....	94,870	14.7	39.9	19.7	25.7	77.5	60.8	76.9	82.5	88.4
<b>Male: 1970</b> .....	<b>39,303</b>	<b>37.9</b>	<b>34.5</b>	<b>12.2</b>	<b>15.7</b>	<b>83.5</b>	<b>89.9</b>	<b>96.3</b>	<b>95.8</b>	<b>96.1</b>
1975.....	41,628	28.9	36.1	14.8	20.2	80.3	82.6	93.2	93.3	95.7
1980.....	45,417	22.2	35.7	17.7	24.3	89.4	78.8	91.9	92.4	95.3
1985.....	49,647	17.7	36.8	18.3	27.1	88.6	72.2	90.0	91.2	94.6
1986.....	50,733	17.2	37.0	18.9	26.9	88.4	75.9	89.8	91.0	94.0
1987.....	51,860	16.8	37.1	18.9	27.2	88.8	77.2	89.6	91.9	94.2
1988.....	52,616	16.5	37.3	18.5	27.8	88.6	76.4	89.5	91.3	94.4
<b>Female: 1970</b> .....	<b>22,462</b>	<b>33.5</b>	<b>44.3</b>	<b>10.9</b>	<b>11.2</b>	<b>49.0</b>	<b>43.0</b>	<b>51.3</b>	<b>50.9</b>	<b>60.9</b>
1975.....	26,146	26.5	45.5	13.9	14.1	52.3	44.1	53.9	57.3	62.7
1980.....	32,583	18.4	45.4	17.4	18.7	59.5	43.7	61.2	66.4	73.4
1985.....	38,779	13.7	44.4	19.9	22.0	64.7	44.3	65.0	72.5	78.6
1986.....	39,767	13.2	44.3	20.3	22.2	65.1	45.1	65.3	71.9	78.8
1987.....	41,105	12.5	44.0	20.7	22.8	66.2	44.9	66.4	72.7	80.3
1988.....	42,254	12.4	43.3	21.2	23.1	67.1	45.4	66.9	74.7	80.8
<b>White: 1970</b> .....	<b>55,044</b>	<b>33.7</b>	<b>39.3</b>	<b>12.2</b>	<b>14.8</b>	<b>70.1</b>	<b>65.2</b>	<b>69.7</b>	<b>73.3</b>	<b>81.9</b>
1975.....	60,026	25.7	40.6	14.7	19.0	70.7	61.9	70.1	75.3	84.5
1980.....	68,509	19.1	40.2	17.7	22.9	74.2	61.4	73.7	79.2	86.0
1985.....	76,739	14.7	40.7	19.1	25.6	76.6	60.7	75.8	81.1	87.7
1986.....	78,225	14.5	40.4	19.5	25.6	76.7	61.2	75.7	80.8	87.6
1987.....	80,205	13.9	40.4	19.6	26.1	77.5	61.6	76.6	81.6	88.2
1988.....	81,886	13.8	40.1	19.7	26.4	78.1	62.2	76.9	82.2	88.6
<b>Black: 1970</b> .....	<b>6,721</b>	<b>55.5</b>	<b>28.2</b>	<b>8.0</b>	<b>8.3</b>	<b>72.0</b>	<b>67.1</b>	<b>76.8</b>	<b>81.0</b>	<b>87.4</b>
1975.....	7,586	41.9	33.1	12.4	12.6	69.8	60.9	75.1	79.7	85.1
1980.....	7,731	34.7	38.1	16.3	11.0	71.5	59.1	79.2	82.0	90.1
1985.....	9,157	26.2	39.5	19.2	15.0	73.4	57.0	77.2	85.6	89.9
1986.....	9,569	23.9	41.1	20.1	14.8	74.7	57.7	78.4	84.8	91.7
1987.....	9,797	23.6	42.4	19.9	14.1	74.7	58.8	77.6	84.5	90.4
1988.....	9,985	22.6	43.0	19.2	15.2	74.3	56.2	77.9	85.8	90.6

<sup>1</sup> Percent of the civilian population in each group in the civilian labor force. <sup>2</sup> Includes other races, not shown separately.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307, and unpublished data.

**NO. 628. EMPLOYMENT STATUS OF THE CIVILIAN NONINSTITUTIONAL POPULATION 16 YEARS OLD AND OVER BY SEX, RACE, AND HISPANIC ORIGIN: 1960 TO 1988**

 [In thousands, except as indicated. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1, and Appendix III. See also *Historical Statistics, Colonial Times to 1970, Series D 11-19 and D 85-88*]

YEAR, SEX, RACE, AND HISPANIC ORIGIN	Civilian noninstitutional population	CIVILIAN LABOR FORCE						NOT IN LABOR FORCE	
		Total	Percent of population	Employed	Employment/population ratio <sup>1</sup>	Unemployed		Number	Percent of population
						Number	Percent of labor force		
<b>Total<sup>2</sup></b>									
1960.....	117,245	69,628	59.4	65,778	56.1	3,852	5.5	47,617	40.6
1970.....	137,085	82,771	60.4	78,678	57.4	4,093	4.9	54,315	39.6
1980.....	167,745	106,940	63.8	99,303	59.2	7,637	7.1	60,906	36.2
1982.....	172,271	110,204	64.0	99,526	57.8	10,678	9.7	62,067	36.0
1983.....	174,215	111,550	64.0	100,834	57.9	10,717	9.8	62,665	36.0
1984.....	176,383	113,544	64.4	105,005	59.5	8,539	7.5	63,939	35.6
1985.....	178,206	115,481	64.8	107,150	60.1	8,312	7.2	62,744	35.2
1986.....	180,587	117,834	65.3	109,597	60.7	8,237	7.0	62,752	34.7
1987.....	182,753	119,865	65.6	112,440	61.5	7,425	6.2	62,888	34.4
1988.....	184,613	121,669	65.9	114,968	62.3	6,701	5.5	62,944	34.1
<b>Male:</b>									
1960.....	55,662	46,388	83.3	43,904	78.9	2,486	5.4	9,274	16.7
1970.....	64,304	51,228	79.7	48,990	76.2	2,238	4.4	13,076	20.3
1980.....	79,398	61,453	77.4	57,186	72.0	4,267	6.9	17,945	22.7
1982.....	81,523	62,450	76.6	56,271	69.0	6,179	9.9	19,073	23.4
1983.....	82,531	63,047	76.4	56,787	68.8	6,260	9.9	19,484	23.6
1984.....	83,605	63,835	76.4	59,091	70.7	4,744	7.4	19,771	23.6
1985.....	84,469	64,411	76.3	59,891	70.9	4,521	7.0	20,058	23.7
1986.....	85,738	65,422	76.3	60,892	71.0	4,530	6.9	20,376	23.7
1987.....	86,899	66,207	76.2	62,107	71.5	4,101	6.2	20,692	23.8
1988.....	87,657	66,927	76.2	63,273	72.0	3,656	5.5	20,930	23.8
<b>Female:</b>									
1960.....	61,582	23,240	37.7	21,874	35.5	1,366	5.9	38,343	62.3
1970.....	72,782	31,543	43.3	29,688	40.8	1,855	5.9	41,239	56.7
1980.....	88,348	45,487	51.5	42,117	47.7	3,370	7.4	42,861	48.5
1982.....	90,748	47,755	52.6	43,256	47.7	4,499	9.4	42,993	47.4
1983.....	91,684	48,503	52.9	44,047	48.0	4,457	9.2	43,181	47.1
1984.....	92,778	49,709	53.6	45,915	49.5	3,794	7.6	43,068	46.4
1985.....	93,736	51,050	54.5	47,259	50.4	3,791	7.4	42,686	45.5
1986.....	94,789	52,413	55.3	48,706	51.4	3,707	7.1	42,378	44.7
1987.....	95,853	53,658	56.0	50,334	52.5	3,324	6.2	42,195	44.0
1988.....	96,756	54,742	56.6	51,696	53.4	3,046	5.6	42,014	43.4
<b>White:</b>									
1960.....	105,282	61,915	58.8	58,850	55.9	3,066	5.0	43,367	41.1
1970.....	122,174	73,556	60.2	70,217	57.5	3,339	4.5	48,618	39.8
1980.....	146,122	93,600	64.1	87,715	60.0	5,884	6.3	52,522	35.9
1982.....	149,441	96,143	64.3	87,903	58.8	8,241	8.6	53,286	35.7
1983.....	150,805	97,021	64.3	88,893	58.9	8,128	8.4	53,784	35.7
1984.....	152,347	98,492	64.6	92,120	60.5	6,372	6.5	53,955	35.4
1985.....	153,679	99,926	65.0	93,736	61.0	6,191	6.2	53,753	35.0
1986.....	155,432	101,801	65.5	95,620	61.5	6,180	6.0	53,631	34.5
1987.....	156,958	103,290	65.9	97,789	62.3	5,501	5.3	53,669	34.2
1988.....	158,194	104,756	66.2	99,612	63.1	4,944	4.7	53,439	33.8
<b>Black:</b>									
1973.....	14,917	8,976	60.2	8,128	54.5	846	9.4	5,941	39.8
1980.....	17,824	10,865	61.0	9,313	52.2	1,553	14.3	6,959	39.0
1982.....	18,584	11,331	61.0	9,189	49.4	2,142	18.9	7,254	39.0
1983.....	18,925	11,647	61.5	9,376	49.5	2,272	19.6	7,278	38.5
1984.....	19,348	12,033	62.2	10,119	52.3	1,914	15.9	7,315	37.9
1985.....	19,664	12,364	62.9	10,501	53.4	1,864	15.1	7,289	37.1
1986.....	19,989	12,654	63.3	10,814	54.1	1,840	14.5	7,335	36.7
1987.....	20,352	12,993	63.8	11,309	55.6	1,684	13.0	7,359	36.2
1988.....	20,992	13,205	63.8	11,658	56.3	1,547	11.7	7,487	36.2
<b>Hispanic:<sup>3</sup></b>									
1980.....	9,598	6,146	64.0	5,527	57.6	620	10.1	3,452	36.0
1982.....	10,680	6,734	63.6	5,805	54.9	929	13.8	3,846	36.4
1983.....	11,029	7,033	63.8	6,072	55.1	961	13.7	3,996	36.2
1984.....	11,478	7,451	64.9	6,651	57.9	800	10.7	4,027	35.1
1985.....	11,915	7,698	64.6	6,888	57.8	811	10.5	4,217	35.4
1986.....	12,344	8,076	65.4	7,219	58.5	857	10.6	4,269	34.6
1987.....	12,867	8,541	66.4	7,790	60.5	751	8.9	4,327	33.6
1988.....	13,325	8,982	67.4	8,250	61.9	732	8.2	4,342	32.6
<b>Mexican:</b>									
1986.....	7,377	4,941	67.0	4,387	59.5	555	11.2	2,436	33.0
1987.....	7,851	5,203	66.3	4,690	61.3	514	9.9	2,448	32.0
1988.....	8,013	5,572	69.5	5,066	63.2	506	9.1	2,441	30.5
<b>Puerto Rican:</b>									
1986.....	1,494	804	53.8	691	46.3	113	14.0	690	46.2
1987.....	1,540	827	53.7	744	48.3	83	10.1	713	46.3
1988.....	1,599	863	55.2	807	50.5	76	8.6	716	44.8
<b>Cuban:</b>									
1986.....	942	570	60.7	533	63.3	36	6.4	272	32.3
1987.....	819	546	66.7	518	63.2	26	5.2	273	33.3
1988.....	849	565	66.5	537	63.3	28	5.0	284	33.5

<sup>1</sup> Civilian employed as a percent of the civilian noninstitutional population.      <sup>2</sup> Includes other races, not shown separately.

<sup>3</sup> Hispanic persons may be of any race. Includes persons of other Hispanic origin, not shown separately.

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

NO. 629. CHARACTERISTICS OF THE CIVILIAN LABOR FORCE, BY STATE: 1988

[In thousands, except ratio and rate. For civilian noninstitutional population, 16 years old and over. Annual averages of monthly figures. U.S. totals derived by independent population controls; therefore State data may not add to U.S. totals. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION AND STATE	TOTAL		EMPLOYED		Em- ployed/ popu- lation ratio <sup>1</sup>	UNEMPLOYED					PARTICI- PATION RATE <sup>2</sup>	
	Num- ber	Fe- male	Total	Fe- male		Total		Rate <sup>2</sup>			Male	Fe- male
					Num- ber	Fe- male	Total	Male	Fe- male			
<b>United States</b>	<b>121,669</b>	<b>54,742</b>	<b>114,968</b>	<b>51,696</b>	<b>62.3</b>	<b>6,701</b>	<b>3,046</b>	<b>5.5</b>	<b>5.5</b>	<b>5.6</b>	<b>76.2</b>	<b>56.6</b>
<b>Region:</b>												
Northeast	25,199	11,332	24,180	10,894	61.8	1,019	438	4.0	4.2	3.9	75.3	54.4
Midwest	30,266	13,668	28,517	12,893	63.1	1,749	776	5.8	5.9	5.7	77.1	57.8
South	41,285	18,720	36,759	17,485	61.3	2,528	1,235	6.1	5.7	6.6	75.4	56.3
West	24,990	11,056	23,581	10,457	63.5	1,409	600	5.6	5.8	5.4	77.3	57.9
<b>New England</b>	<b>6,918</b>	<b>3,210</b>	<b>6,701</b>	<b>3,116</b>	<b>66.6</b>	<b>216</b>	<b>94</b>	<b>3.1</b>	<b>3.3</b>	<b>2.9</b>	<b>76.3</b>	<b>60.2</b>
Maine	598	278	576	268	62.9	22	11	3.8	3.7	3.8	74.9	57.0
New Hampshire	626	269	591	262	70.9	15	8	2.4	2.1	2.9	82.4	63.3
Vermont	298	137	289	133	68.9	8	4	2.8	2.7	2.9	79.5	62.8
Massachusetts	3,144	1,477	3,041	1,431	66.2	103	47	3.3	3.4	3.1	78.1	60.0
Rhode Island	526	244	510	237	66.3	18	7	3.1	3.3	2.8	77.0	60.5
Connecticut	1,748	805	1,694	786	67.0	52	19	3.0	3.5	2.3	78.9	60.3
<b>Middle Atlantic</b>	<b>16,261</b>	<b>8,121</b>	<b>17,479</b>	<b>7,778</b>	<b>59.8</b>	<b>803</b>	<b>343</b>	<b>4.4</b>	<b>4.5</b>	<b>4.2</b>	<b>74.2</b>	<b>52.4</b>
New York	8,522	3,775	8,164	3,626	59.2	358	149	4.2	4.4	3.9	73.7	51.3
New Jersey	3,978	1,776	3,827	1,708	63.4	151	68	3.8	3.8	3.9	77.1	55.9
Pennsylvania	5,760	2,570	5,486	2,444	58.6	294	126	5.1	5.2	4.9	73.1	51.6
<b>East North Central</b>	<b>21,066</b>	<b>9,462</b>	<b>19,746</b>	<b>8,894</b>	<b>62.0</b>	<b>1,320</b>	<b>568</b>	<b>6.3</b>	<b>6.5</b>	<b>6.0</b>	<b>76.5</b>	<b>56.7</b>
Ohio	5,329	2,310	5,008	2,225	60.7	320	134	6.0	6.3	5.7	75.8	54.5
Indiana	2,817	1,310	2,668	1,241	63.4	150	65	5.3	5.4	5.2	76.4	58.6
Illinois	5,766	2,582	5,374	2,413	61.6	392	189	6.8	7.0	6.6	77.3	56.0
Michigan	4,580	2,051	4,232	1,901	60.2	348	150	7.6	7.8	7.3	74.9	56.2
Wisconsin	2,575	1,160	2,465	1,114	67.4	110	46	4.3	4.5	3.9	79.6	61.8
<b>West North Central</b>	<b>9,200</b>	<b>4,207</b>	<b>8,771</b>	<b>3,999</b>	<b>65.9</b>	<b>429</b>	<b>208</b>	<b>4.7</b>	<b>4.4</b>	<b>4.9</b>	<b>78.5</b>	<b>60.6</b>
Minnesota	2,327	1,053	2,233	1,006	68.9	94	46	4.0	3.7	4.4	81.1	63.0
Iowa	1,500	693	1,433	653	66.7	67	31	4.5	4.5	4.5	78.7	61.5
Missouri	2,593	1,214	2,445	1,141	62.8	148	73	5.7	5.4	6.0	75.9	58.4
North Dakota	329	146	313	139	65.5	16	7	4.8	4.8	4.8	77.6	60.2
South Dakota	358	163	344	157	66.2	14	6	3.9	4.0	3.9	78.4	60.2
Nebraska	817	375	786	360	66.4	29	14	3.6	3.4	3.8	78.0	60.5
Kansas	1,277	579	1,216	543	66.2	61	30	4.8	4.4	5.2	79.4	60.2
<b>South Atlantic</b>	<b>21,304</b>	<b>9,859</b>	<b>20,285</b>	<b>9,330</b>	<b>62.8</b>	<b>1,019</b>	<b>529</b>	<b>4.8</b>	<b>4.3</b>	<b>5.4</b>	<b>75.2</b>	<b>57.8</b>
Delaware	349	164	338	159	67.6	11	5	3.2	3.4	2.9	78.1	62.4
Maryland	2,465	1,146	2,355	1,085	66.7	110	61	4.5	3.7	5.3	78.6	61.8
District of Columbia	337	171	320	163	67.7	17	8	5.0	5.2	4.7	76.5	66.7
Virginia	3,093	1,422	2,973	1,357	66.5	120	65	3.9	3.3	4.6	78.3	60.9
West Virginia	743	321	669	292	46.2	74	29	9.9	10.5	9.2	63.2	41.1
North Carolina	3,343	1,538	3,222	1,474	65.6	121	64	3.6	3.1	4.2	77.0	59.9
South Carolina	1,680	771	1,604	729	62.6	78	42	4.5	3.8	5.4	75.9	56.5
Georgia	3,182	1,500	3,007	1,403	64.1	185	97	5.8	5.2	6.5	77.7	59.7
Florida	6,104	2,826	5,800	2,668	59.8	305	158	5.0	4.5	5.6	71.6	55.2
<b>East South Central</b>	<b>7,092</b>	<b>3,170</b>	<b>6,589</b>	<b>2,919</b>	<b>57.3</b>	<b>503</b>	<b>251</b>	<b>7.1</b>	<b>6.4</b>	<b>7.9</b>	<b>72.9</b>	<b>51.8</b>
Kentucky	1,710	762	1,575	697	56.6	134	65	7.9	7.3	8.5	73.7	50.9
Tennessee	2,351	1,058	2,214	992	59.2	136	66	5.8	5.4	6.3	72.8	53.9
Alabama	1,687	838	1,751	768	56.8	136	70	7.2	6.3	8.4	73.3	50.8
Mississippi	1,144	511	1,048	462	55.4	96	49	8.4	7.4	9.7	71.6	50.8
<b>West South Central</b>	<b>12,889</b>	<b>5,692</b>	<b>11,665</b>	<b>5,237</b>	<b>61.3</b>	<b>1,004</b>	<b>464</b>	<b>7.8</b>	<b>7.6</b>	<b>8.0</b>	<b>77.3</b>	<b>56.4</b>
Arkansas	1,123	505	1,037	460	57.3	86	45	7.7	6.6	9.0	71.8	53.3
Louisiana	1,921	839	1,712	745	59.9	209	88	10.9	11.1	10.6	72.5	49.7
Oklahoma	1,533	694	1,431	649	59.8	102	45	6.7	6.8	6.5	74.3	54.6
Texas	8,308	3,658	7,702	3,383	64.1	606	276	7.3	7.1	7.5	79.9	59.1
<b>Mountain</b>	<b>6,493</b>	<b>2,926</b>	<b>6,090</b>	<b>2,756</b>	<b>63.3</b>	<b>404</b>	<b>172</b>	<b>6.2</b>	<b>6.5</b>	<b>5.9</b>	<b>76.7</b>	<b>56.9</b>
Montana	401	180	374	168	62.9	27	12	6.8	6.9	6.6	76.5	58.9
Idaho	475	208	447	196	62.8	28	12	5.8	6.0	5.6	76.5	57.4
Wyoming	232	102	217	96	64.6	15	6	6.3	6.8	5.7	78.4	59.8
Colorado	1,699	798	1,590	749	65.3	109	48	6.4	6.7	6.0	79.1	61.6
New Mexico	688	303	635	280	58.5	54	23	7.8	7.9	7.6	74.3	53.5
Arizona	1,654	744	1,550	701	60.5	104	43	6.3	6.7	5.7	73.3	58.4
Utah	759	332	722	315	65.8	37	17	4.9	4.7	5.1	78.3	59.4
Nevada	587	262	556	251	69.2	30	12	5.2	5.8	4.4	79.7	66.1
<b>Pacific</b>	<b>16,497</b>	<b>8,128</b>	<b>17,491</b>	<b>7,701</b>	<b>63.6</b>	<b>1,005</b>	<b>428</b>	<b>5.4</b>	<b>5.6</b>	<b>5.3</b>	<b>77.5</b>	<b>57.6</b>
Washington	2,295	1,057	2,159	994	62.5	141	63	6.2	6.3	6.0	74.1	59.5
Oregon	1,408	634	1,326	596	63.3	82	39	5.8	5.6	6.1	75.7	59.0
California	14,036	6,082	13,292	5,773	63.8	743	310	5.3	5.4	5.1	78.3	57.0
Alaska	242	110	219	101	65.3	23	9	9.3	10.4	8.1	80.3	64.1
Hawaii	516	244	500	237	64.6	16	7	3.2	3.4	3.0	74.3	60.0

<sup>1</sup> Civilian employment as a percent of civilian noninstitutional population. <sup>2</sup> Percent unemployed of the civilian labor force. <sup>3</sup> Percent of civilian noninstitutional population of each specified group in the civilian labor force.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1988*.



## NO. 630. CIVILIAN LABOR FORCE STATUS BY SELECTED METROPOLITAN AREA: 1988

[In thousands, except rate. For the civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Data for metro areas, based on administrative records, see source for details. For composition of metropolitan areas, see Appendix II. See table 670 for average annual pay data]

METROPOLITAN AREAS RANKED BY POPULATION SIZE, 1988	Em- ployed	UNEMPLOYED		METROPOLITAN AREAS RANKED BY POPULATION SIZE, 1988	Em- ployed	UNEMPLOYED	
		Total	Rate <sup>1</sup>			Total	Rate <sup>1</sup>
<b>U.S. total</b> .....	<b>114,968</b>	<b>6,701</b>	<b>5.5</b>	Kansas City, MO-KS MSA.....	802.2	44.9	5.3
New York-Northern New Jersey- Long Island, NY-NJ-CT CMSA <sup>2</sup> .....	8,462.5	342.0	3.9	Milwaukee-Racine, WI CMSA.....	619.9	32.7	3.8
Los Angeles-Anaheim-Riverside, CA CMSA.....	6,492.4	317.8	4.7	Portland-Vancouver, OR-WA CMSA <sup>7</sup> .....	610.2	30.5	4.8
Chicago-Gary-Lake County (IL), IL- IN-WI CMSA.....	3,866.5	253.3	6.1	Sacramento, CA MSA.....	663.4	37.6	5.4
San Francisco-Oakland-San Jose, CA CMSA <sup>3</sup> .....	3,032.2	133.5	4.2	Norfolk-Virginia Beach-Newport News, VA MSA.....	584.5	27.5	4.5
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA.....	2,832.4	120.4	4.1	Columbus, OH MSA.....	676.5	35.0	4.9
Detroit-Ann Arbor, MI CMSA.....	2,186.2	174.7	7.4	San Antonio, TX MSA.....	560.6	47.7	7.8
Dallas-Fort Worth, TX CMSA.....	2,020.3	127.3	5.9	New Orleans, LA MSA.....	540.7	56.6	9.5
Boston-Lawrence-Salem-Lowell- Brockton, MA NECMA.....	1,987.8	61.7	3.0	Indianapolis, IN MSA.....	643.8	31.2	4.6
Washington, DC-MD-VA MSA.....	2,136.7	64.7	2.9	Buffalo-Niagara Falls, NY CMSA <sup>4</sup> .....	427.1	22.6	5.0
Houston-Galveston-Brazoria, TX CMSA.....	1,686.5	127.1	7.0	Charlotte-Gastonia-Rock Hill, NC-SC MSA.....	614.0	20.0	3.2
Miami-Fort Lauderdale, FL CMSA.....	1,500.1	76.5	4.9	Hartford-New Britain-Middletown- Bristol, CT NECMA.....	590.7	17.0	2.8
Cleveland-Akron-Lorain, OH CMSA <sup>4</sup> .....	1,187.9	71.1	5.6	Salt Lake City-Ogden, UT MSA.....	473.5	23.1	4.7
Atlanta, GA MSA.....	1,431.2	76.9	5.1	Rochester, NY MSA.....	483.9	18.9	3.8
St. Louis, MO-IL MSA.....	1,182.1	75.0	6.0	Memphis, TN-AR-MS-MSA <sup>5</sup> .....	420.6	22.5	5.1
Seattle-Tacoma, WA CMSA <sup>5</sup> .....	973.7	49.3	4.8	Nashville, TN MSA.....	500.9	22.8	4.4
Minneapolis-St. Paul, MN-WI MSA.....	1,339.7	47.3	3.4	Orlando, FL MSA.....	553.6	26.3	4.5
San Diego, CA MSA.....	1,070.3	48.0	4.3	Louisville, KY-IN MSA.....	472.7	31.6	6.3
Baltimore, MD MSA.....	1,126.6	57.9	4.9	Oklahoma City, OK MSA.....	470.4	27.6	5.5
Pittsburgh-Beaver Valley, PA CMSA.....	984.1	61.0	6.0	Dayton-Springfield, OH MSA.....	444.6	24.4	5.2
Phoenix, AZ MSA.....	975.2	52.5	5.1	Greensboro-Winston-Salem-High Point, NC MSA.....	509.3	16.0	3.0
Tampa-St. Petersburg-Clearwater, FL MSA.....	948.4	45.7	4.6	Birmingham, AL MSA.....	412.9	26.3	6.0
Denver-Boulder, CO CMSA.....	952.2	58.5	5.8	Providence-Pawtucket-Woonsocket, RI CMA.....	464.2	14.6	3.0
Cincinnati-Hamilton, OH-KY-IN CMSA <sup>6</sup> .....	723.7	39.0	5.1	Jacksonville, FL MSA.....	433.5	24.3	5.3
				Albany-Schenectady-Troy, NY MSA.....	407.3	15.2	3.6
				Richmond-Petersburg, VA MSA.....	429.9	15.1	3.4
				Honolulu, HI MSA.....	372.0	10.6	2.8

<sup>1</sup> Percent unemployed of the civilian labor force. <sup>2</sup> Excludes Danbury and Norwalk, CT PMSA; data not available. <sup>3</sup> Excludes Santa Cruz PMSA; data not available. <sup>4</sup> Excludes Lorain-Elyria PMSA; data not available. <sup>5</sup> Excludes Tacoma PMSA; data not available. <sup>6</sup> Excludes Hamilton-Middletown, OH PMSA; data not available. <sup>7</sup> Excludes Vancouver, WA PMSA; data not available. <sup>8</sup> Excludes Niagara Falls PMSA; data not available. <sup>9</sup> Excludes DeSoto County, MS; data not available.

## NO. 631. CIVILIAN LABOR FORCE—PERCENT DISTRIBUTION BY SEX AND AGE: 1960 TO 1988

[For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III. See *Historical Statistics, Colonial Times to 1970*, series D 29-41, for similar but not exactly comparable data]

YEAR AND SEX	Civilian labor force (1,000)	PERCENT DISTRIBUTION						
		16-19 years	20-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65 yr. and over
<b>Total: 1960</b> .....	69,628	7.0	9.6	20.7	23.4	21.3	13.5	4.6
1970.....	82,771	8.8	12.8	20.6	19.9	20.2	13.6	3.9
1975.....	93,775	9.5	14.7	24.4	18.0	18.2	12.1	3.2
1980.....	106,949	8.8	14.9	27.3	19.1	15.9	11.2	2.9
1983.....	111,550	7.3	14.4	28.5	21.2	15.1	10.8	2.7
1984.....	113,544	7.0	14.1	28.8	22.0	15.0	10.5	2.6
1985.....	115,461	6.8	13.6	29.1	22.6	15.0	10.4	2.5
1986.....	117,834	6.7	13.1	29.4	23.1	15.1	10.1	2.6
1987.....	119,865	6.7	12.5	29.4	23.7	15.2	9.9	2.6
1988.....	121,669	6.6	11.9	29.2	24.2	15.7	9.7	2.7
<b>Male: 1960</b> .....	46,388	6.0	8.9	22.1	23.6	20.8	13.8	4.9
1970.....	51,228	7.8	11.2	22.1	20.4	20.3	13.9	4.2
1975.....	56,299	8.5	13.4	25.2	18.5	18.5	12.5	3.4
1980.....	61,453	8.1	14.0	27.6	19.3	16.1	11.8	3.1
1983.....	63,047	6.8	13.6	28.6	21.3	15.5	11.3	2.9
1984.....	63,835	6.5	13.5	29.0	22.0	15.3	11.0	2.7
1985.....	64,411	6.4	12.9	29.2	22.5	15.3	11.0	2.7
1986.....	65,422	6.3	12.5	29.6	23.0	15.3	10.6	2.8
1987.....	66,207	6.2	11.8	29.7	23.5	15.4	10.5	2.9
1988.....	66,927	6.2	11.3	29.5	24.0	15.8	10.2	2.9
<b>Female: 1960</b> .....	23,240	8.8	11.1	17.8	22.8	22.7	12.8	3.9
1970.....	31,543	10.3	15.5	18.1	18.9	20.7	13.2	3.3
1975.....	37,475	10.8	16.5	23.1	17.4	17.8	11.5	2.8
1980.....	45,487	9.6	16.1	26.9	19.0	15.4	10.4	2.6
1983.....	48,503	8.0	15.4	28.4	21.1	14.6	10.0	2.5
1984.....	49,709	7.7	15.0	28.6	21.9	14.5	9.9	2.4
1985.....	51,050	7.4	14.6	28.9	22.7	14.6	9.7	2.3
1986.....	52,413	7.3	13.9	29.0	23.3	14.8	9.4	2.3
1987.....	53,858	7.2	13.3	29.0	24.0	15.0	9.2	2.3
1988.....	54,742	7.1	12.6	28.6	24.4	15.6	9.1	2.4

Source of tables 630 and 631: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

# Civilian Labor Force Status

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## No. 632. CIVILIAN LABOR FORCE—YEARS OF SCHOOL COMPLETED, BY SEX AND RACE: 1988

[As of March. For civilian noninstitutional population 25–64 years of age. Based on Current Population Survey; see text, section 1 and Appendix III]

EMPLOYMENT STATUS, SEX, AND RACE	Population, 25–64 years old (1,000)	PERCENT DISTRIBUTION BY SCHOOL YEARS COMPLETED								
		Elementary school			High school		College			
		0–4 years	5–7 years	8 years	1–3 years	4 years	1–3 years	4 years	5 years or more	
<b>Total</b> <sup>1</sup>	<b>122,386</b>	<b>1.7</b>	<b>3.0</b>	<b>3.1</b>	<b>10.9</b>	<b>40.2</b>	<b>18.5</b>	<b>13.1</b>	<b>9.4</b>	
Civilian labor force	94,871	1.1	2.1	2.3	9.2	39.9	19.7	14.7	11.0	
Employed	90,393	1.0	2.0	2.2	8.7	39.6	19.9	15.1	11.4	
Unemployed	4,477	2.0	4.8	3.8	18.7	45.9	15.3	6.7	2.9	
Not in labor force	27,517	3.9	5.9	6.0	16.8	41.3	14.4	7.4	4.2	
Male, total	59,401	1.8	3.3	3.2	10.7	36.9	17.9	14.4	11.7	
Civilian labor force	52,616	1.3	2.7	2.7	9.8	37.3	18.5	15.3	12.4	
Employed	49,918	1.2	2.5	2.6	9.3	36.9	18.7	15.8	13.0	
Unemployed	2,698	2.6	5.7	4.3	19.3	45.0	14.2	6.5	2.4	
Not in labor force	6,786	5.8	8.2	7.4	18.0	34.0	13.8	7.3	5.5	
Female, total	62,983	1.6	2.7	3.0	11.0	43.4	19.0	11.9	7.3	
Civilian labor force	42,255	.8	1.5	1.8	8.4	43.3	21.2	14.0	9.1	
Employed	40,475	.8	1.4	1.7	8.0	43.1	21.3	14.3	9.3	
Unemployed	1,778	1.1	3.4	2.9	17.7	47.3	17.2	6.9	3.5	
Not in labor force	20,731	3.2	5.2	5.6	16.4	43.7	14.6	7.5	3.7	
White, total	104,889	1.5	2.7	3.0	10.0	40.7	18.7	13.5	9.8	
Civilian labor force	81,287	1.0	2.0	2.3	8.5	40.1	19.7	15.0	11.4	
Employed	78,599	1.0	1.9	2.2	8.1	39.8	19.9	15.3	11.7	
Unemployed	3,287	2.2	4.6	4.2	17.7	45.6	15.9	7.5	2.3	
Not in labor force	23,000	3.3	5.3	5.9	15.3	42.9	15.2	7.8	4.2	
Black, total	13,439	2.2	4.9	3.9	18.9	41.0	16.7	7.7	4.7	
Civilian labor force	9,984	1.1	3.2	2.8	15.5	43.0	19.2	9.5	5.7	
Employed	8,984	1.2	3.0	2.8	14.5	42.4	19.8	10.2	6.1	
Unemployed	1,001	.6	5.5	2.6	24.1	48.1	14.2	2.9	2.1	
Not in labor force	3,455	5.2	9.7	7.3	28.8	35.3	9.2	2.7	1.9	

<sup>1</sup> Includes other races, not shown separately.

Source: U.S. Bureau of Labor Statistics, unpublished data.

## No. 633. SCHOOL ENROLLMENT AND LABOR FORCE STATUS OF CIVILIANS 16 TO 24 YEARS OLD, BY SELECTED CHARACTERISTICS: 1980 AND 1988

[In thousands, except percent. As of October. Civilian noninstitutional population. Based on Current Population Survey; see text, section 1 and Appendix III]

CHARACTERISTIC	POPULATION		CIVILIAN LABOR FORCE			EMPLOYED		UNEMPLOYED		
	1980	1988	1980, total	1988		1980	1988	1980, total	1988	
				Total	Per- cent <sup>1</sup>				Total	Rate <sup>2</sup>
<b>Total, 16 to 24 years</b> <sup>3</sup>	<b>37,103</b>	<b>32,893</b>	<b>24,918</b>	<b>22,088</b>	<b>67.2</b>	<b>21,459</b>	<b>19,810</b>	<b>3,464</b>	<b>2,278</b>	<b>10.3</b>
Enrolled in school <sup>3</sup>	15,713	15,435	7,454	7,714	50.0	6,433	6,891	1,021	822	10.7
16 to 19 years	11,126	10,620	4,836	4,685	44.1	4,029	4,030	807	655	14.0
20 to 24 years	4,587	4,816	2,618	3,028	62.9	2,404	2,861	214	167	5.5
Male	7,997	7,832	3,825	3,797	48.5	3,259	3,348	566	449	11.8
Female	7,716	7,603	3,629	3,916	51.5	3,174	3,543	455	373	9.5
College level	7,664	7,973	3,996	4,586	57.5	3,632	4,279	364	308	6.7
Full-time	6,396	6,614	2,854	3,343	50.6	2,554	3,078	300	265	7.9
White	13,242	12,701	6,687	6,689	52.7	5,889	6,078	798	611	9.1
Below college	6,566	5,906	3,095	2,665	45.1	2,579	2,290	516	376	14.1
College level	6,676	6,795	3,592	4,023	58.2	3,310	3,788	282	235	5.9
Black	2,028	2,039	595	724	35.5	406	540	189	183	25.3
Below college	1,282	1,254	294	363	29.0	174	240	120	123	33.9
College level	747	785	300	360	45.9	230	300	70	60	16.7
Not enrolled <sup>3</sup>	21,390	17,458	17,464	14,374	82.3	15,021	12,919	2,443	1,456	10.1
White	18,103	14,343	15,121	12,106	84.4	13,318	11,060	1,803	1,046	8.6
Black	2,864	2,654	2,055	1,907	71.9	1,451	1,529	604	379	19.9

<sup>1</sup> Percent of civilian noninstitutional population. <sup>2</sup> Percent of civilian labor force in each category. <sup>3</sup> Includes other races, not shown separately.

Source: U.S. Bureau of Labor Statistics, Bulletin 2192, and unpublished data.

**NO. 634. LABOR FORCE PARTICIPATION RATES BY MARITAL STATUS, SEX, AND AGE: 1960 TO 1988**

[As of March. See table 629 for definition of participation rate. Data for males include members of the Armed Forces living offpost or with their families on post. Based on Current Population Survey; see text, section 1 and Appendix III]

YEAR AND MARITAL STATUS	MALE PARTICIPATION RATE							FEMALE PARTICIPATION RATE						
	Total	16-19 years	20-24 years	25-34 years	35-44 years	45-64 years	65 and over	Total	16-19 years	20-24 years	25-34 years	35-44 years	45-64 years	65 and over
<b>Married:<sup>1</sup></b>														
1960	88.9	96.0	97.5	98.6	98.4	93.0	37.1	30.5	25.3	30.0	27.7	36.2	34.2	5.9
1970	86.9	95.5	95.0	98.2	98.1	91.6	30.2	40.8	36.0	47.4	39.3	47.2	44.1	7.9
1975	83.0	92.3	95.1	97.3	97.0	87.0	23.7	44.4	46.0	57.3	48.3	51.9	43.9	7.2
1980	81.2	97.3	96.8	97.5	97.0	84.8	20.4	50.1	47.7	60.5	59.3	62.5	46.9	7.2
1983	79.5	92.7	95.7	97.3	97.2	82.1	19.1	51.8	46.6	63.0	62.5	65.4	47.6	7.5
1984	79.2	96.5	96.2	97.2	97.2	81.8	17.4	52.8	43.4	63.3	64.0	66.4	49.0	7.3
1985	79.0	90.9	95.7	97.4	96.7	81.6	17.5	54.2	49.2	64.9	65.6	68.1	50.6	6.7
1986	78.7	91.8	95.8	97.3	96.3	81.8	17.3	54.6	52.9	63.1	68.4	69.0	50.4	7.0
1987	78.8	90.4	95.7	97.2	96.2	82.4	17.4	55.8	42.8	67.4	67.5	71.7	51.3	6.9
1988	78.6	95.3	95.7	97.0	96.7	82.4	17.5	56.5	46.8	65.9	68.6	72.7	52.7	7.4
<b>Single:</b>														
1960	55.5	34.4	76.6	85.3	85.3	74.4	24.3	44.1	25.3	73.4	79.9	79.7	75.1	21.6
1970	60.7	49.0	69.0	86.2	82.3	65.6	21.0	53.0	39.5	71.1	80.7	73.3	67.8	17.6
1975	67.1	53.2	76.5	87.4	86.5	68.7	20.5	57.0	45.5	69.5	80.4	77.8	68.4	16.2
1980	70.8	56.8	79.8	87.3	79.9	65.2	20.0	61.5	49.0	72.2	84.2	78.5	62.8	12.0
1983	70.0	49.9	77.6	86.4	81.8	69.6	23.9	62.6	46.0	72.6	83.6	81.1	65.1	12.6
1984	70.3	50.8	78.5	87.4	83.2	65.6	16.7	63.1	46.4	72.1	83.5	83.0	67.0	11.8
1985	70.8	52.4	77.9	87.5	80.8	67.3	16.0	65.2	49.8	74.0	82.5	80.6	73.2	8.0
1986	71.9	50.8	80.7	88.3	84.5	61.4	17.8	65.3	50.1	75.0	81.1	79.6	69.3	8.0
1987	71.7	50.2	80.0	88.0	83.7	64.3	16.3	65.1	49.6	74.5	82.9	81.8	58.6	9.1
1988	72.1	49.7	80.1	88.4	82.4	65.9	20.7	65.2	48.7	74.8	81.8	81.5	65.2	10.9
<b>Other:<sup>2</sup></b>														
1960	59.3	(b)	88.6	82.3	84.1	78.1	18.2	40.0	37.3	54.6	55.5	67.4	58.3	11.0
1970	54.2	(b)	73.2	74.5	80.6	75.9	16.5	39.1	46.5	59.7	65.1	67.9	60.7	9.9
1975	65.1	(b)	84.7	92.4	89.3	69.4	18.0	40.8	41.9	68.1	67.5	69.4	60.4	8.1
1980	66.8	(b)	92.9	93.8	91.1	69.9	13.0	44.0	51.0	68.5	77.1	76.4	59.5	8.6
1983	68.9	(b)	89.7	91.9	90.7	73.9	13.1	43.9	45.3	68.4	77.1	77.7	59.5	7.5
1984	67.7	(b)	91.6	90.7	92.8	71.8	12.6	45.0	53.6	71.3	78.5	79.6	61.0	7.7
1985	69.2	(b)	96.9	92.9	92.1	72.8	12.7	45.6	50.9	68.5	78.9	80.6	60.7	7.9
1986	68.8	(b)	93.9	93.1	89.1	71.7	13.0	45.9	50.6	71.0	78.4	82.6	61.7	7.4
1987	67.9	(b)	90.6	92.9	91.1	73.1	11.1	45.7	(b)	67.2	77.1	83.0	61.9	7.6
1988	66.9	(b)	93.2	91.8	88.8	71.2	11.6	46.1	64.5	67.7	78.3	81.5	62.6	8.2

B For 1960, percentage not shown where base is less than 100,000; beginning 1970, 75,000. <sup>1</sup> Spouse present. <sup>2</sup> 14 to 19 years old. <sup>3</sup> Widowed, divorced, and married (spouse absent).

**NO. 635. MARITAL STATUS OF WOMEN IN THE CIVILIAN LABOR FORCE: 1960 TO 1988**

[As of March. Persons 14 years old and over through 1965; 16 years old and over thereafter. Based on Current Population Survey; see text, section 1 and Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series D 49-62]

YEAR	FEMALE LABOR FORCE (1,000)					PERCENT DISTRIBUTION, FEMALE LABOR FORCE			FEMALE LABOR FORCE AS PERCENT OF FEMALE POPULATION				
	Total	Single	Married		Wid-owed or di-voiced	Single	Mar-ried <sup>1</sup>	Wid-owed or di-voiced	Total	Single	Married		Wid-owed or di-voiced
			Total <sup>1</sup>	Hus-band present							Total <sup>1</sup>	Hus-band present	
1960	22,516	5,401	13,485	12,253	3,629	24.0	59.9	16.1	34.8	44.1	31.7	30.5	37.1
1965	25,952	5,912	16,154	14,708	3,866	22.8	62.2	15.0	36.7	40.5	35.7	34.7	35.7
1970	31,239	6,965	19,799	18,377	4,469	22.3	63.4	14.3	42.6	53.0	41.4	40.8	38.2
1971	31,778	7,220	20,034	18,573	4,524	22.7	63.0	14.2	42.5	52.8	41.4	40.8	35.7
1972	33,132	7,543	20,845	19,336	4,744	22.8	62.9	14.3	43.7	55.0	42.2	41.5	37.2
1973	34,195	7,838	21,487	19,951	4,870	22.9	62.8	14.2	44.2	55.9	42.8	42.2	36.7
1974	35,708	8,362	22,202	20,541	5,144	23.4	62.4	14.4	45.3	57.4	43.8	43.1	37.8
1975	36,981	8,599	23,037	21,360	5,345	23.2	62.3	14.5	46.0	57.0	45.1	44.4	37.7
1976	38,999	9,282	23,643	21,814	5,474	24.2	61.6	14.3	46.8	59.2	45.8	45.1	37.3
1977	40,053	9,702	24,429	22,681	5,922	24.2	61.0	14.8	48.0	59.2	47.2	46.6	39.0
1978	41,747	10,487	24,976	23,136	6,284	25.1	59.8	15.1	49.2	60.7	48.1	47.5	39.9
1979	43,844	11,304	26,073	24,223	6,467	25.8	59.5	14.8	50.8	62.9	49.9	49.3	40.0
1980	44,934	11,242	26,828	24,900	6,864	25.0	59.7	15.3	51.1	61.5	50.7	50.1	41.0
1981	46,415	11,628	27,536	25,460	7,251	25.0	59.3	15.6	52.0	62.3	51.7	51.0	41.9
1982	47,095	11,801	27,843	25,756	7,451	25.1	59.1	15.8	52.1	62.2	51.8	51.2	42.1
1983	47,779	12,282	28,140	26,227	7,357	25.7	58.9	15.4	52.3	62.6	52.3	51.8	41.2
1984	48,240	12,581	28,663	26,855	7,775	25.6	58.7	15.8	53.2	63.1	53.3	52.8	42.1
1985	50,891	12,925	29,755	27,716	8,211	25.4	58.5	16.1	54.5	65.2	54.7	54.2	42.8
1986	51,732	13,127	30,274	28,197	8,332	25.4	58.5	16.1	54.7	65.3	55.0	54.6	43.1
1987	52,960	13,454	31,282	29,159	8,224	25.4	59.1	15.5	55.4	65.1	56.1	55.8	42.9
1988	53,887	13,617	31,946	29,751	8,424	25.2	59.2	15.6	55.9	65.2	56.8	56.5	43.4

<sup>1</sup> Includes married, spouse absent.

Source of tables 634 and 635: U.S. Bureau of Labor Statistics, Bulletin 2307, and unpublished data.

# Female Labor Force Status

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## NO. 636. MARRIED, SEPARATED, AND DIVORCED WOMEN—LABOR FORCE STATUS BY PRESENCE AND AGE OF CHILDREN: 1960 TO 1988

[As of March. For 1960, civilian noninstitutional persons 14 years old and over, thereafter 16 years old and over. Based on Current Population Survey; see text, section 1 and Appendix III]

ITEM	TOTAL			NO CHILDREN UNDER 18			CHILDREN 6-17 ONLY			CHILDREN UNDER 6		
	Married <sup>1</sup>	Separated	Divorced	Married <sup>1</sup>	Separated	Divorced	Married <sup>1</sup>	Separated	Divorced	Married <sup>1</sup>	Separated	Divorced
<b>IN LABOR FORCE (mil.)</b>												
1960.....	12.3	(NA)	(NA)	5.7	(NA)	(NA)	4.1	(NA)	(NA)	2.5	(NA)	(NA)
1970.....	18.4	1.4	1.9	8.2	7	1.1	6.3	4	8	3.9	3	3
1980.....	24.9	1.9	4.4	11.2	9	2.3	8.4	6	1.6	5.2	4	5
1982.....	25.8	2.1	5.2	11.8	1.0	2.7	8.3	7	1.8	5.7	5	6
1983.....	26.2	1.9	5.2	12.1	8	2.8	8.3	6	1.8	5.9	5	6
1984.....	26.9	2.0	5.5	12.3	9	3.0	8.3	7	1.9	6.2	4	6
1985.....	27.7	2.0	5.9	12.8	1.0	3.3	8.5	7	2.0	6.4	4	6
1986.....	28.2	2.1	6.2	12.9	1.0	3.5	8.8	6	2.0	6.6	5	7
1987.....	29.2	2.1	6.1	13.2	1.0	3.4	9.0	7	2.0	7.0	4	7
1988.....	29.8	2.2	6.2	13.5	1.1	3.7	9.3	7	1.9	7.0	4	6
<b>PARTICIPATION RATE<sup>2</sup></b>												
1960.....	30.5	(NA)	(NA)	34.7	(NA)	(NA)	39.0	(NA)	(NA)	18.6	(NA)	(NA)
1970.....	40.8	52.1	71.5	42.2	52.3	67.7	49.2	60.6	82.4	30.3	45.4	63.3
1980.....	50.1	59.4	74.5	48.0	58.9	71.4	61.7	66.3	82.3	45.1	52.2	68.3
1982.....	51.2	60.0	74.9	46.2	57.5	71.6	63.2	68.4	83.6	48.7	55.2	67.2
1983.....	51.8	58.7	74.6	46.6	56.6	71.7	63.8	68.7	82.2	49.9	53.8	68.7
1984.....	52.8	60.9	74.3	47.2	58.1	70.5	65.4	70.1	84.1	51.8	53.9	67.7
1985.....	54.2	61.3	75.0	48.2	60.0	72.1	67.8	70.9	83.4	53.4	53.2	67.5
1986.....	54.6	62.2	76.0	48.2	60.4	72.1	68.4	70.6	84.7	53.8	57.4	73.8
1987.....	55.8	61.4	75.4	48.4	57.9	71.9	70.6	72.6	84.5	58.8	55.1	70.5
1988.....	56.5	60.9	75.7	48.9	60.1	73.0	72.5	69.3	83.9	57.1	53.0	70.1
<b>EMPLOYMENT (mil.)</b>												
1960.....	11.6	(NA)	(NA)	5.4	(NA)	(NA)	3.9	(NA)	(NA)	2.3	(NA)	(NA)
1970.....	17.5	1.3	1.8	7.9	7	1.0	6.0	4	5	3.6	3	2
1980.....	23.6	1.7	4.2	10.7	8	2.2	8.1	6	1.5	4.8	4	5
1982.....	23.9	1.8	4.7	11.1	8	2.5	7.7	6	1.7	5.1	4	5
1983.....	24.3	1.5	4.7	11.4	7	2.6	7.7	5	1.5	5.2	3	5
1984.....	25.3	1.7	5.0	11.7	8	2.8	7.9	6	1.7	5.7	3	5
1985.....	26.1	1.8	5.4	12.2	9	3.1	8.1	6	1.8	5.9	3	5
1986.....	26.7	1.9	5.7	12.3	9	3.3	8.3	5	1.9	6.1	4	6
1987.....	27.8	1.9	5.7	12.7	9	3.2	8.6	6	1.9	6.5	3	3
1988.....	28.6	2.0	5.9	13.1	1.0	3.5	8.8	6	1.8	6.5	3	3
<b>UNEMPLOYMENT RATE<sup>3</sup></b>												
1960.....	5.4	(NA)	(NA)	4.8	(NA)	(NA)	4.9	(NA)	(NA)	7.8	(NA)	(NA)
1970.....	4.8	6.8	5.4	3.3	4.2	4.7	4.8	5.9	6.5	7.9	13.3	5.2
1980.....	5.3	9.9	6.4	4.5	8.3	4.5	4.4	10.6	6.7	8.3	12.3	13.6
1982.....	7.1	14.5	8.9	5.7	11.7	7.6	7.0	14.6	9.2	10.1	20.1	13.5
1983.....	7.2	19.1	10.2	5.7	13.8	7.1	6.7	20.0	12.8	10.9	27.6	16.8
1984.....	5.7	13.9	8.6	4.6	9.0	6.6	5.0	13.1	9.7	8.9	25.0	14.3
1985.....	5.7	13.7	7.7	4.7	9.0	6.2	5.5	14.6	9.0	8.0	22.9	12.1
1986.....	5.4	10.8	7.5	4.6	7.2	6.1	4.8	11.7	8.2	7.6	16.5	12.9
1987.....	4.5	11.8	6.9	3.5	8.1	5.9	4.9	14.8	6.1	5.9	15.7	13.8
1988.....	3.9	9.1	5.2	2.9	7.0	4.5	3.8	6.7	5.3	6.1	15.0	9.4

NA Not available. <sup>1</sup> Husband present. <sup>2</sup> Percent of women in each specific category in the labor force.

<sup>3</sup> Unemployed as a percent of civilian labor force in specified group.

Source: U.S. Bureau of Labor Statistics, *Special Labor Force Reports*, Nos. 13, 130, and 134; *Bulletins* 2163 and 2307; and unpublished data.

## NO. 637. LABOR FORCE PARTICIPATION RATES FOR WIVES, HUSBAND PRESENT, BY AGE OF OWN YOUNGEST CHILD: 1975 TO 1988

[As of March. For civilian noninstitutional population, 16 years old and over. Based on Current Population Survey; see text, section 1 and Appendix III]

PRESENCE AND AGE OF CHILD	TOTAL				WHITE				BLACK			
	1975	1980	1985	1988	1975	1980	1985	1988	1975	1980	1985	1988
<b>Wives, total</b> .....	44.5	50.2	54.3	56.7	43.7	48.3	53.4	55.8	54.3	59.3	64.2	66.1
No children under 18.....	44.0	48.0	48.2	49.1	43.5	45.5	47.5	48.5	47.7	51.2	56.1	54.4
With children under 18.....	44.9	54.3	61.0	66.2	43.9	53.2	60.0	64.3	58.8	65.6	71.5	75.8
Under 6, total.....	36.8	45.3	53.7	57.4	36.0	43.5	52.3	56.3	56.4	63.4	69.3	71.7
Under 3.....	32.6	41.5	50.7	54.8	30.9	40.0	49.8	53.3	52.2	57.7	65.7	73.0
1 year or under.....	30.8	39.0	49.4	51.9	29.2	37.7	48.6	50.5	50.0	52.9	63.7	71.5
2 years.....	37.1	48.1	54.0	61.7	35.1	46.1	52.7	60.2	56.4	71.0	89.9	76.2
3 to 5 years.....	42.2	51.7	56.6	61.4	40.3	49.4	56.6	60.9	61.7	72.3	73.8	89.8
3 years.....	41.2	51.5	55.1	59.3	39.0	48.4	52.7	58.1	62.7	73.4	72.3	76.1
4 years.....	41.2	51.4	59.7	61.4	38.7	49.8	58.4	61.0	64.9	66.4	70.6	70.3
5 years.....	44.4	52.4	62.1	63.6	43.8	50.4	59.9	64.0	56.3	77.8	79.1	62.5
6 to 13 years.....	51.8	62.6	68.1	72.3	50.8	61.4	67.7	71.5	64.9	71.8	73.5	81.4
14 to 17 years.....	53.8	60.5	67.0	72.9	53.6	60.6	66.3	72.5	51.0	58.4	74.1	74.6

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, February 1986, and unpublished data.

## Labor Force, Employment, and Earnings

## NO. 638. CIVILIAN LABOR FORCE—EMPLOYMENT STATUS BY SEX, RACE, AND AGE: 1988

[For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III]

AGE AND RACE	CIVILIAN LABOR FORCE			MALE (1,000)			FEMALE (1,000)			PERCENT OF LABOR FORCE			
	Total (1,000)	Percent by age		Total	Em- ployed	Un- em- ployed	Total	Em- ployed	Un- em- ployed	Employed		Unemployed	
		Male	Fe- male							Male	Fe- male	Male	Fe- male
<b>All workers</b> <sup>1</sup>	<b>121,669</b>	<b>100.0</b>	<b>100.0</b>	<b>66,927</b>	<b>83,273</b>	<b>3,655</b>	<b>54,742</b>	<b>51,696</b>	<b>3,048</b>	<b>94.5</b>	<b>94.4</b>	<b>5.5</b>	<b>5.6</b>
16-19 years.....	8,031	6.2	7.1	4,159	3,492	667	3,872	3,313	558	84.0	85.6	16.0	14.4
20-24 years.....	14,505	11.3	12.6	7,584	6,918	876	6,910	6,328	586	91.1	91.5	8.9	8.5
25-34 years.....	35,503	29.5	28.8	19,742	18,702	1,040	15,761	14,872	889	94.7	94.4	5.3	5.6
35-44 years.....	29,435	24.0	24.4	16,074	15,457	617	13,361	12,811	550	96.2	96.9	3.8	4.1
45-54 years.....	19,104	15.8	15.6	10,566	10,201	366	8,537	8,246	291	96.5	96.6	3.5	3.4
55-64 years.....	11,806	10.2	9.1	6,831	6,591	240	4,977	4,841	136	96.5	97.3	3.5	2.7
65 years and over.....	3,284	2.9	2.4	1,960	1,911	49	1,324	1,286	38	97.5	97.1	2.5	2.9
<b>White</b>	<b>104,756</b>	<b>100.0</b>	<b>100.0</b>	<b>58,317</b>	<b>55,550</b>	<b>2,768</b>	<b>46,439</b>	<b>44,282</b>	<b>2,177</b>	<b>95.3</b>	<b>95.3</b>	<b>4.7</b>	<b>4.7</b>
16-19 years.....	6,940	6.1	7.2	3,583	3,084	499	3,358	2,946	412	86.1	87.7	13.9	12.3
20-24 years.....	12,311	11.1	12.6	6,468	5,987	480	5,844	5,450	393	92.6	93.3	7.4	6.7
25-34 years.....	30,187	29.2	29.3	17,018	16,241	777	13,149	12,555	594	95.4	95.5	4.6	4.5
35-44 years.....	25,356	24.1	24.3	14,068	13,580	477	11,291	10,878	413	96.6	96.3	3.4	3.7
45-54 years.....	16,573	15.8	15.7	9,285	8,992	293	7,288	7,062	227	96.8	96.9	3.2	3.1
55-64 years.....	10,462	10.5	9.4	6,108	6,009	200	4,354	4,244	110	96.7	97.5	3.3	2.5
65 years and over.....	2,943	3.1	2.5	1,787	1,748	40	1,156	1,126	30	97.8	97.4	2.2	2.6
<b>Black</b>	<b>13,205</b>	<b>100.0</b>	<b>100.0</b>	<b>6,596</b>	<b>5,824</b>	<b>771</b>	<b>6,809</b>	<b>5,834</b>	<b>776</b>	<b>88.3</b>	<b>88.3</b>	<b>11.7</b>	<b>11.7</b>
16-19 years.....	889	7.1	6.3	460	316	154	419	285	134	67.2	68.0	32.8	32.0
20-24 years.....	1,782	13.8	13.1	913	736	177	669	697	172	80.6	80.2	19.4	19.8
25-34 years.....	4,226	32.0	32.0	2,114	1,881	233	2,112	1,844	269	89.0	87.3	11.0	12.7
35-44 years.....	3,069	22.1	24.4	1,459	1,348	111	1,610	1,491	119	92.4	92.6	7.6	7.4
45-54 years.....	1,894	14.2	14.5	936	878	58	958	905	53	93.8	94.5	6.2	5.5
55-64 years.....	1,069	8.6	7.6	565	536	30	504	482	22	94.7	96.6	5.3	4.4
65 years and over.....	276	2.1	2.1	139	131	8	137	129	7	94.2	94.9	5.8	5.1

<sup>1</sup> Includes other races not shown separately.

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

## NO. 639. EMPLOYED CIVILIANS AND WEEKLY HOURS BY SELECTED CHARACTERISTICS: 1970 TO 1988

[In thousands except as indicated. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III]

AGE, SEX, AND MARITAL STATUS	1970	1980	1982	1983	1984	1985	1986	1987	1988
<b>Total employed</b> .....	<b>78,678</b>	<b>99,303</b>	<b>99,626</b>	<b>100,834</b>	<b>105,005</b>	<b>107,150</b>	<b>109,597</b>	<b>112,440</b>	<b>114,968</b>
<b>Age:</b>									
16-19 years.....	6,144	7,710	6,549	6,342	6,444	6,434	6,472	6,640	6,805
20-24 years.....	9,731	14,087	13,690	13,722	14,207	13,980	13,790	13,524	13,244
25-34 years.....	16,318	27,204	28,149	28,756	30,348	31,208	32,201	33,105	33,574
35-44 years.....	15,922	19,523	20,879	21,960	23,598	24,732	25,861	27,179	28,269
45-54 years.....	16,473	16,234	15,923	15,812	16,176	16,509	16,949	17,487	18,447
55-64 years.....	10,974	11,586	11,414	11,315	11,395	11,474	11,405	11,485	11,433
65 years and over.....	3,118	2,960	2,923	2,927	2,835	2,813	2,919	3,041	3,197
<b>Sex:</b>									
Male.....	48,990	57,186	56,271	56,787	59,091	59,891	60,892	62,107	63,273
Female.....	29,688	42,117	43,256	44,047	45,915	47,259	48,706	50,334	51,696
<b>Marital status:</b>									
Married, spouse present.....	55,554	62,538	62,127	62,570	64,692	65,584	66,802	68,372	69,228
Single (never married).....	15,039	24,082	24,069	24,779	26,143	26,780	27,478	28,355	29,500
Widowed, divorced, separated.....	8,087	12,686	13,330	13,483	14,170	14,786	15,318	15,713	16,242
<b>Class of worker:</b>									
<b>Nonagriculture:</b>									
Wage and salary worker.....	75,215	95,938	96,125	97,450	101,685	103,971	106,434	109,232	111,800
Self-employed.....	69,491	88,525	88,462	89,500	93,595	95,871	98,289	100,771	103,021
Unpaid family workers.....	5,221	7,000	7,262	7,575	7,765	7,811	7,981	8,201	8,519
Agriculture.....	502	413	401	376	335	289	255	260	260
<b>Agriculture:</b>									
Wage and salary worker.....	3,463	3,364	3,401	3,383	3,321	3,179	3,163	3,208	3,169
Self-employed.....	1,154	1,425	1,505	1,579	1,555	1,535	1,547	1,632	1,621
Unpaid family workers.....	1,810	1,642	1,636	1,565	1,553	1,458	1,447	1,423	1,398
Weekly hours:									
<b>Nonagriculture:</b>									
Wage and salary workers.....	38.3	38.1	37.6	37.9	38.4	38.7	38.8	38.7	39.1
Self-employed.....	45.0	41.2	39.8	40.0	40.6	41.1	41.2	41.0	41.0
Unpaid family workers.....	37.9	34.7	34.7	34.8	35.1	35.1	35.5	36.3	36.0
<b>Agriculture:</b>									
Wage and salary workers.....	40.0	41.6	40.3	40.3	41.1	40.8	40.9	40.6	41.3
Self-employed.....	51.0	49.3	48.3	47.4	48.1	48.2	48.4	47.8	47.5
Unpaid family workers.....	40.0	38.6	38.9	38.6	38.9	38.5	39.7	39.9	39.7

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

**NO. 640. SELF-EMPLOYED WORKERS BY SELECTED CHARACTERISTICS: 1970 TO 1988**

[In thousands. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1, and Appendix III]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988
<b>Total self-employed</b> .....	<b>7,031</b>	<b>7,427</b>	<b>8,642</b>	<b>8,898</b>	<b>9,140</b>	<b>9,338</b>	<b>9,269</b>	<b>9,328</b>	<b>9,624</b>	<b>9,917</b>
<b>Industry:</b>										
Agriculture.....	1,810	1,722	1,642	1,636	1,565	1,553	1,458	1,447	1,423	1,398
Nonagriculture.....	5,221	5,705	7,000	7,262	7,575	7,785	7,811	7,881	8,201	8,519
Mining.....	14	16	28	34	29	25	20	26	27	28
Construction.....	687	839	1,173	1,117	1,158	1,235	1,301	1,369	1,384	1,427
Manufacturing.....	264	273	358	353	371	360	347	371	354	394
Transportation and public utilities.....	198	223	282	304	322	318	315	318	335	345
Trade.....	1,667	1,709	1,899	1,870	1,932	1,920	1,792	1,787	1,841	1,823
Finance, insurance, and real estate.....	254	335	458	490	532	544	558	556	597	624
Services.....	2,140	2,310	2,804	3,093	3,233	3,383	3,477	3,455	3,663	3,878
<b>Occupation:</b>										
Managerial and professional specialty.....	(NA)	(NA)	(NA)	(NA)	2,437	2,531	2,585	2,554	2,714	2,929
Technical, sales, and administrative support.....	(NA)	(NA)	(NA)	(NA)	2,114	2,132	2,059	2,092	2,138	2,155
Service occupations.....	(NA)	(NA)	(NA)	(NA)	887	939	980	998	1,058	1,159
Precision production, craft, and repair.....	(NA)	(NA)	(NA)	(NA)	1,526	1,602	1,611	1,651	1,680	1,674
Operators, fabricators, and laborers.....	(NA)	(NA)	(NA)	(NA)	599	584	568	578	596	604
Farming, forestry, and fishing.....	(NA)	(NA)	(NA)	(NA)	1,580	1,551	1,465	1,458	1,438	1,395

NA Not available.

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

**NO. 641. PERSONS WITH A JOB BUT NOT AT WORK: 1970 TO 1988**

[In thousands, except percent. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III. See *Historical Statistics, Colonial Times to 1970*, series D 116-126, for related but not comparable data]

REASON FOR NOT WORKING	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988		
											Total	Male	Female
<b>All industries, number</b> .....	<b>4,645</b>	<b>5,221</b>	<b>5,882</b>	<b>5,790</b>	<b>5,712</b>	<b>5,663</b>	<b>5,575</b>	<b>5,789</b>	<b>5,741</b>	<b>5,910</b>	<b>5,631</b>	<b>2,820</b>	<b>3,011</b>
<b>Percent of employed</b> .....	<b>5.9</b>	<b>6.1</b>	<b>5.9</b>	<b>5.8</b>	<b>5.7</b>	<b>5.5</b>	<b>5.3</b>	<b>5.4</b>	<b>5.2</b>	<b>5.3</b>	<b>5.1</b>	<b>4.5</b>	<b>5.8</b>
Reason for not working: Vacation.....	2,341	2,815	3,320	3,247	3,153	3,096	3,147	3,338	3,234	3,421	3,236	1,544	1,692
Illness.....	1,324	1,343	1,425	1,413	1,331	1,291	1,322	1,308	1,292	1,320	1,364	697	667
Bad weather.....	128	139	155	112	202	124	118	141	128	92	122	105	17
Industrial dispute.....	156	95	105	64	36	91	40	42	56	34	30	24	6
All other.....	696	829	876	953	988	962	947	960	1,030	1,043	1,080	451	629

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

**NO. 642. EMPLOYED AND UNEMPLOYED WORKERS BY WORK SCHEDULES, SEX, AND AGE: 1980 TO 1988**

[In thousands. See headnote, table 626]

CHARACTERISTIC	EMPLOYED				CHARACTERISTIC	UNEMPLOYED			
	1980	1985	1987	1988		1980	1985	1987	1988
<b>Total</b> .....	<b>99,303</b>	<b>107,150</b>	<b>112,440</b>	<b>114,968</b>	<b>Total</b> .....	<b>7,636</b>	<b>8,312</b>	<b>7,425</b>	<b>6,701</b>
Full-time <sup>1</sup> .....	82,562	88,535	92,957	95,214	Looking for full-time work.....	6,269	6,793	5,979	5,357
Male.....	51,717	53,862	55,746	56,816	Male.....	3,703	3,925	3,520	3,116
16-19 years old.....	2,017	1,437	1,385	1,462	16-19 years old.....	537	446	373	338
20-24 years old.....	6,593	6,078	5,871	5,724	20-24 years old.....	994	857	695	590
25-54 years old.....	35,644	39,207	41,400	42,614	25-54 years old.....	1,923	2,329	2,201	1,956
55 years and over.....	7,521	7,139	7,110	7,017	55 years and over.....	250	292	252	233
Female.....	30,846	34,675	37,210	38,998	Female.....	2,564	2,868	2,458	2,241
16-19 years old.....	1,456	1,065	1,089	1,099	16-19 years old.....	430	331	280	254
20-24 years old.....	5,098	4,903	4,810	4,707	20-24 years old.....	636	636	535	454
25-54 years old.....	20,395	24,838	27,354	28,572	25-54 years old.....	1,363	1,727	1,523	1,419
55 years and over.....	3,897	3,862	3,956	4,018	55 years and over.....	135	173	120	114
Part-time <sup>1</sup> .....	16,740	18,615	19,483	19,754	Looking for part-time work.....	1,369	1,519	1,446	1,343
Male.....	5,471	6,028	6,380	6,457	Male.....	563	596	580	539
16-19 years old.....	2,068	1,891	2,015	2,029	16-19 years old.....	377	360	358	330
20-24 years old.....	999	1,261	1,187	1,195	20-24 years old.....	81	87	84	86
25-54 years old.....	1,092	1,568	1,735	1,748	25-54 years old.....	54	79	82	67
55 years and over.....	1,314	1,308	1,422	1,485	55 years and over.....	52	70	55	56
Female.....	11,271	12,587	13,124	13,298	Female.....	806	923	866	805
16-19 years old.....	2,169	2,036	2,171	2,214	16-19 years old.....	326	330	336	305
20-24 years old.....	1,456	1,738	1,658	1,618	20-24 years old.....	124	158	139	130
25-54 years old.....	5,827	6,837	7,281	7,358	25-54 years old.....	299	359	327	310
55 years and over.....	1,815	1,978	2,016	2,108	55 years and over.....	57	75	64	60

<sup>1</sup> Full-time workers include employed persons on full-time (35 hours or more per week) schedules and those working part-time (between 1 and 34 hours) for economic reasons who usually work full-time. Part-time workers include employed persons working part-time voluntarily and those working part-time for economic reasons, who usually work part-time. Employed persons with a job but not at work are distributed according to whether they usually work full- or part-time.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307 and *Employment and Earnings*, monthly.

## NO. 643. WORKERS ON FLEXIBLE SCHEDULES, BY SELECTED CHARACTERISTICS: 1985

[In thousands, except percent. As of May. For full-time wage and salary workers. See headnote, table 642]

CHARACTERISTIC	ALL WORKERS			WITH FLEXIBLE SCHEDULES			PERCENT OF ALL WORKERS		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
<b>Total</b> .....	<b>73,395</b>	<b>43,779</b>	<b>29,616</b>	<b>8,061</b>	<b>5,760</b>	<b>3,300</b>	<b>12.3</b>	<b>13.2</b>	<b>11.1</b>
<b>Marital status and presence of youngest child:</b>									
<b>Single</b> .....	16,812	9,703	7,109	2,123	1,232	891	12.6	12.7	12.5
With no children under 18 .....	16,264	9,605	6,659	2,055	1,218	837	12.6	12.7	12.6
With own children: under 6 .....	18,301	88	213	26	10	16	8.6	11.4	7.5
Between 6 and 13 years old .....	192	6	186	29	1	28	15.1	16.7	15.1
Between 14 and 17 years old .....	55	4	51	13	3	10	23.6	75.0	19.6
<b>Married, spouse present</b> .....	45,345	29,666	15,679	5,483	3,868	1,615	12.1	13.0	10.3
With no children under 18 .....	19,413	11,567	7,846	2,311	1,531	780	11.9	13.2	9.9
With own children: under 6 .....	12,093	8,927	3,166	1,459	1,130	329	12.1	12.7	10.4
Between 6 and 13 years old .....	9,391	6,299	3,092	1,164	814	350	12.4	12.9	11.3
Between 14 and 17 years old .....	4,449	2,873	1,576	547	392	155	12.3	13.6	9.8
<b>Other marital status</b> .....	11,238	4,410	6,828	1,455	661	794	12.9	15.0	11.6
With no children under 18 .....	8,252	3,895	4,357	1,125	588	537	13.6	15.1	12.3
With own children: under 6 .....	673	120	553	62	9	53	9.2	7.5	9.6
Between 6 and 13 years old .....	1,418	224	1,194	173	38	135	12.2	17.0	11.3
Between 14 and 17 years old .....	895	171	724	94	25	69	10.5	14.6	9.5
<b>Occupation:</b>									
<b>Managerial and professional</b> .....	18,944	10,896	8,049	3,448	2,340	1,109	18.2	21.5	13.8
<b>Technical, sales, administrative</b> .....	21,961	8,346	13,615	3,215	1,540	1,675	14.6	18.5	12.3
<b>Service occupations</b> .....	7,268	3,552	3,717	619	302	317	8.5	8.5	8.5
<b>Precision production, craft, and repair</b> .....	10,477	9,870	807	717	658	59	6.8	6.8	7.3
<b>Operators, fabricators, and laborers</b> .....	13,326	10,073	3,253	847	728	120	6.4	7.2	3.7
<b>Farming, forestry, and fisheries</b> .....	1,418	1,243	175	214	182	22	15.1	15.4	12.6
<b>Industry:</b>									
<b>Private sector</b> .....	60,127	36,995	23,132	7,559	4,904	2,856	12.6	13.3	11.5
<b>Goods producing</b> <sup>1</sup> .....	24,626	18,354	6,272	2,420	1,892	528	9.8	10.3	8.4
<b>Service producing</b> .....	35,500	18,641	16,860	5,139	3,011	2,128	14.5	16.2	12.6
<b>Public sector</b> .....	13,268	6,784	6,484	1,501	857	644	11.3	12.6	9.9
<b>Federal government</b> .....	2,901	1,794	1,107	580	340	240	20.0	19.0	21.7
<b>State government</b> .....	3,320	1,845	1,675	537	292	245	16.2	17.8	14.6
<b>Local government</b> .....	7,047	3,345	3,702	384	225	160	5.4	6.7	4.3

<sup>1</sup> Includes agriculture, mining, construction, and manufacturing.Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, November 1986, and unpublished data.

## NO. 644. SELECTED WORKLIFE INDICES BY SEX, RACE, AND EDUCATIONAL ATTAINMENT: 1979-1980

[In years, except percent. For the civilian noninstitutional population. For methodological details, see source]

INDEX AND AGE	MALE					FEMALE						
	Total	Race		Educational attainment			Total	Race		Educational attainment		
		White	Black and other	Less than high school	High school to 14 years	15 years or more		White	Black and other	Less than high school	High school to 14 years	15 years or more
<b>Life expectancy:</b>												
At birth .....	70.0	70.7	65.3	70.0	70.0	70.0	77.6	78.3	73.9	77.6	77.6	77.6
At age 25 .....	47.3	47.9	43.3	47.3	47.3	47.3	54.2	54.7	51.0	54.2	54.2	54.2
At age 60 .....	17.5	17.8	16.5	17.5	17.5	17.5	22.4	22.6	21.0	22.4	22.4	22.4
At age 65 .....	14.2	14.3	13.8	14.2	14.2	14.2	18.5	18.7	17.7	18.5	18.5	18.5
<b>Worklife expectancy:</b>												
At birth .....	38.8	39.8	32.9	34.6	39.9	41.1	29.4	29.7	27.4	22.3	30.1	34.9
At age 25 .....	33.1	33.8	28.6	29.2	33.8	36.1	24.0	24.1	23.5	17.9	24.4	27.9
At age 60 .....	4.4	4.5	3.3	3.3	4.7	6.3	3.0	3.0	3.0	2.3	3.3	3.5
At age 65 .....	2.3	2.3	1.8	1.8	2.4	3.6	1.5	1.5	1.5	1.2	1.8	1.8
<b>Percent of life economically active:</b> <sup>1</sup>												
From birth .....	55.4	58.3	50.4	49.4	57.0	58.7	37.9	37.9	37.1	28.7	38.8	45.0
From age 25 .....	70.0	70.6	66.1	61.7	71.5	76.3	44.3	44.1	46.1	33.0	45.0	51.5
From age 60 .....	25.1	25.6	20.0	18.9	26.9	36.0	13.4	13.3	14.3	10.3	14.7	15.8
From age 65 .....	16.2	16.1	13.0	12.7	16.9	25.4	8.1	8.0	8.5	6.5	9.7	9.7
<b>Number of times person enters labor force per:</b>												
Person born .....	3.9	3.9	4.3	4.3	3.7	4.6	5.5	5.6	5.4	5.8	5.6	5.6
Person age 25 .....	1.5	1.5	1.8	2.0	1.5	1.4	3.0	3.0	3.1	3.3	3.2	2.7
<b>Expected duration per entry remaining:</b> <sup>2</sup>												
From birth .....	9.9	10.2	7.7	8.0	10.8	8.9	5.3	5.3	5.1	3.8	5.4	6.2
From age 25 .....	22.1	22.5	15.9	14.6	22.5	25.8	8.0	8.0	7.6	5.4	7.6	10.3
<b>Number of times person voluntarily leaves labor force:</b>												
From birth .....	3.6	3.6	3.9	4.0	3.6	4.5	5.4	5.5	5.4	5.7	5.7	4.7
From age 25 .....	2.3	2.3	2.4	2.7	2.3	2.2	3.8	3.8	3.7	3.8	4.0	3.6

<sup>1</sup> Ratio of worklife expectancy to life expectancy.<sup>2</sup> Worklife expectancy divided by number of times person enters labor force.Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, August 1985.

## No. 645. EMPLOYED CIVILIANS, BY OCCUPATION, SEX, RACE, AND HISPANIC ORIGIN: 1988

[For civilian noninstitutional population 16 years old and over. Annual average of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III. Persons of Hispanic origin may be of any race]

OCCUPATION	Total employed (1,000)	PERCENT OF TOTAL		
		Female	Black	Hispanic
<b>Total</b> .....	<b>114,968</b>	<b>45.0</b>	<b>10.1</b>	<b>7.2</b>
<b>Managerial and professional specialty</b> .....	<b>29,190</b>	<b>44.7</b>	<b>6.1</b>	<b>3.7</b>
Executive, administrative, and managerial <sup>1</sup> .....	14,216	39.3	5.6	4.0
Officials and administrators, public.....	472	44.5	9.4	4.1
Financial managers.....	502	42.4	4.3	4.1
Personnel and labor relations managers.....	130	49.1	5.5	3.1
Purchasing managers.....	99	24.4	5.6	2.8
Managers, marketing, advertising and public relations.....	482	32.0	3.6	2.6
Administrators, education and related fields.....	562	48.9	9.5	1.9
Managers, medicine and health.....	183	61.3	6.3	1.8
Managers, properties and real estate.....	433	44.8	6.2	6.6
Management-related occupations <sup>1</sup> .....	3,772	50.6	7.2	4.2
Accountants and auditors.....	1,329	49.6	7.5	3.7
<b>Professional specialty<sup>1</sup></b> .....	<b>14,974</b>	<b>49.8</b>	<b>6.7</b>	<b>3.4</b>
Architects.....	143	14.6	4.4	6.3
Engineers <sup>1</sup> .....	1,605	5.3	3.8	2.6
Aerospace engineers.....	115	7.3	5.4	2.8
Chemical engineers.....	65	12.0	2.7	2.1
Civil engineers.....	218	6.0	3.7	5.9
Electrical and electronic.....	573	7.9	3.7	2.5
Industrial engineers.....	221	12.9	6.0	1.2
Mechanical.....	297	3.7	2.9	2.6
Mathematical and computer scientists <sup>1</sup> .....	732	33.4	7.4	3.0
Computer systems analysts, scientists.....	479	29.5	7.4	2.6
Operations and systems researchers and analysts.....	210	39.6	6.4	4.0
<b>Natural scientists<sup>1</sup></b> .....	<b>395</b>	<b>24.1</b>	<b>2.5</b>	<b>2.8</b>
Chemists, except biochemists.....	125	23.7	4.1	2.0
Geologists and geodesists.....	50	12.9	3.8	2.0
Biological and life scientists.....	75	33.7	1.0	2.4
<b>Health diagnosing occupations<sup>1</sup></b> .....	<b>818</b>	<b>18.2</b>	<b>2.8</b>	<b>4.0</b>
Physicians.....	541	20.0	3.3	4.7
Dentists.....	152	9.3	1.9	3.0
<b>Health assessment and treating occupations</b> .....	<b>2,154</b>	<b>84.9</b>	<b>7.8</b>	<b>2.9</b>
Registered nurses.....	1,559	94.6	8.5	2.7
Pharmacists.....	168	31.9	2.7	1.1
Dietitians.....	74	86.0	18.8	4.7
Therapists <sup>1</sup> .....	298	73.0	4.9	4.0
Inhalation therapists.....	65	54.0	7.6	4.6
Physical therapists.....	82	73.5	2.1	6.1
Speech therapists.....	66	90.2	3.9	-
Physicians' assistants.....	54	34.5	5.6	5.9
<b>Teachers, college and university</b> .....	<b>700</b>	<b>38.5</b>	<b>4.0</b>	<b>3.6</b>
Teachers, except college and university <sup>1</sup> .....	3,773	72.9	8.8	3.9
Prekindergarten and kindergarten.....	393	98.2	9.2	6.3
Elementary school.....	1,424	84.8	10.2	3.9
Secondary school.....	1,187	51.2	8.1	3.7
Special education.....	246	85.2	10.6	1.0
Counselors, educational and vocational.....	206	61.8	14.9	4.6
Librarians, archivists, and curators.....	219	82.6	8.0	1.5
Librarians.....	196	85.4	7.8	1.6
<b>Social scientists and urban planners<sup>1</sup></b> .....	<b>343</b>	<b>47.6</b>	<b>7.1</b>	<b>3.9</b>
Economists.....	116	35.3	6.1	4.0
Psychologists.....	196	55.3	7.8	4.0
<b>Social, recreation, and religious workers<sup>1</sup></b> .....	<b>1,052</b>	<b>46.1</b>	<b>13.9</b>	<b>4.8</b>
<b>Social workers</b> .....	<b>537</b>	<b>66.0</b>	<b>19.3</b>	<b>6.2</b>
Recreation workers.....	92	64.2	12.3	5.1
Clergy.....	348	8.8	8.6	2.7
<b>Lawyers and judges</b> .....	<b>757</b>	<b>19.5</b>	<b>2.3</b>	<b>1.9</b>
Lawyers.....	724	19.3	2.0	1.9
<b>Writers, artists, entertainers, and athletes<sup>1</sup></b> .....	<b>1,855</b>	<b>46.7</b>	<b>4.3</b>	<b>3.6</b>
Authors.....	82	56.0	4	7
Technical writers.....	58	47.4	2.6	1.6
Designers.....	510	53.3	2.1	3.6
Musicians and composers.....	151	29.6	7.7	7.2
Actors and directors.....	100	37.5	5.6	2.7
Painters, sculptors, craft-artists, and artist printmakers.....	215	51.2	3.6	4.2
Photographers.....	117	30.7	4.4	2.1
Editors and reporters.....	260	51.4	4.0	2.5
Public relations specialists.....	151	59.1	5.1	2.4
Announcers.....	52	16.1	9.2	6.2
Athletes.....	73	16.7	13.6	4.2

See footnotes at end of table.



## No. 645. EMPLOYED CIVILIANS, BY OCCUPATION, SEX, RACE, AND HISPANIC ORIGIN: 1988—Continued

[See headnote, page 389]

OCCUPATION	Total employed (1,000)	PERCENT OF TOTAL		
		Female	Black	Hispanic
<b>Technical, sales, and administrative support</b> .....	<b>35,532</b>	<b>64.8</b>	<b>9.1</b>	<b>5.8</b>
Technicians and related support.....	3,521	47.9	9.4	4.3
Health technologists and technicians <sup>1</sup> .....	1,226	52.6	14.2	4.5
Clinical laboratory technologists and technicians.....	272	76.0	14.2	4.5
Dental hygienists.....	78	97.6	3.2	1.9
Health record technologists and technicians.....	59	86.7	13.4	10.0
Radiologic technicians.....	133	76.0	4.1	5.7
Licensed practical nurses.....	423	96.0	19.1	3.8
Engineering and related technologists and technicians <sup>1</sup> .....	930	18.9	6.1	4.7
Electrical and electronic technicians.....	322	14.4	6.8	6.6
Drafting occupations.....	290	16.3	5.5	4.3
Surveying and mapping technicians.....	78	12.9	3.3	2.8
Science technicians <sup>1</sup> .....	216	31.1	6.7	3.9
Biological technicians.....	55	42.5	8.2	5.1
Chemical technicians.....	81	26.8	10.0	3.1
Technicians, except health, engineering, and science <sup>1</sup> .....	1,149	37.7	6.9	3.9
Aircraft pilots and navigators.....	88	3.1	1.4	1.5
Computer programmers.....	570	32.2	6.9	3.8
Legal assistants.....	203	76.3	8.2	6.0
Sales occupations.....	13,747	48.9	6.1	5.3
Supervisors and proprietors.....	3,658	33.5	4.3	4.8
Sales representatives, finance and business services <sup>1</sup> .....	2,410	41.2	4.0	3.4
Insurance sales.....	545	29.7	4.5	4.3
Real estate sales.....	792	48.5	3.2	2.6
Securities and financial services sales.....	319	27.5	2.5	2.3
Advertising and related sales.....	168	47.8	5.4	3.3
Sales representatives, commodities, except retail.....	1,551	19.2	3.1	3.7
Sales workers, retail and personal services.....	6,068	68.6	8.9	6.8
Cashiers.....	2,337	82.2	12.5	7.4
Sales-related occupations.....	59	71.2	1.3	2.1
Administrative support, including clerical.....	18,264	80.1	11.3	6.5
Supervisors.....	764	58.0	13.5	5.9
Computer equipment operators.....	869	66.1	14.4	5.9
Computer operators.....	865	66.0	14.3	6.0
Secretaries, stenographers, and typists <sup>1</sup> .....	4,876	98.2	8.5	5.3
Secretaries.....	4,030	99.1	7.1	4.8
Typists.....	798	94.5	16.0	7.8
Information clerks.....	1,479	88.5	9.1	8.7
Receptionists.....	848	97.1	7.4	6.9
Records processing occupations, except financial <sup>1</sup> .....	827	82.1	15.6	6.2
Order clerks.....	197	77.3	15.7	5.2
Personnel clerks, except payroll and time keeping.....	65	89.7	17.7	6.2
Library clerks.....	143	78.8	11.2	6.1
File clerks.....	271	83.3	18.8	9.8
Records clerks.....	132	86.5	12.5	5.3
Financial records processing <sup>1</sup> .....	2,414	91.0	6.2	5.1
Bookkeepers, accounting, and auditing clerks.....	1,970	92.1	5.1	5.0
Payroll and time keeping clerks.....	173	90.0	8.8	4.6
Billing clerks.....	157	90.2	14.5	7.0
Cost and rate clerks.....	75	72.7	9.3	7.3
Duplicating, mail and other office machine operators.....	68	82.0	16.0	11.8
Communications equipment operators.....	218	89.4	19.3	4.5
Telephone operators.....	210	89.6	19.2	4.2
Mail and message distributing occupations.....	936	36.3	22.0	8.6
Postal clerks, except mail carriers.....	313	47.6	32.1	6.2
Mail carriers, postal service.....	320	22.0	13.4	10.4
Mail clerks, except postal service.....	163	50.6	23.8	10.0
Messengers.....	141	27.6	17.3	8.2
Material recording, scheduling, and distributing clerks <sup>1</sup> .....	1,681	38.4	14.0	8.5
Dispatchers.....	171	45.9	7.3	5.2
Production coordinators.....	192	46.6	9.3	6.2
Traffic, shipping, and receiving clerks.....	521	27.5	15.9	10.5
Stock and inventory clerks.....	559	38.7	16.2	9.3
Weighers, measurers, and checkers.....	72	46.0	15.6	5.5
Expeditors.....	95	62.8	10.2	7.9
Adjusters and investigators.....	949	75.0	11.3	6.0
Insurance adjusters, examiners, and investigators.....	287	72.2	10.1	4.8
Investigators and adjusters, except insurance.....	466	76.9	11.7	6.3
Eligibility clerks, social welfare.....	85	90.3	15.3	8.6
Bill and account collectors.....	130	66.6	10.5	5.9
Miscellaneous administrative support <sup>1</sup> .....	3,183	85.0	13.1	7.0
General office clerks.....	833	81.3	11.3	6.8
Bank tellers.....	478	91.0	8.8	6.6
Data entry keyers.....	362	88.2	19.8	7.8
Statistical clerks.....	85	73.4	8.8	8.1
Teachers' aides.....	423	95.9	14.3	9.6

See footnotes at end of table.

# Employed Civilians

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## NO. 645. EMPLOYED CIVILIANS, BY OCCUPATION, SEX, RACE, AND HISPANIC ORIGIN: 1988—Continued

[See headnote, page 389]

OCCUPATION	Total employed (1,000)	PERCENT OF TOTAL		
		Female	Black	Hispanic
<b>Service occupations</b> .....	<b>15,332</b>	<b>60.5</b>	<b>17.6</b>	<b>10.2</b>
Private household <sup>1</sup> .....	909	96.3	22.5	16.7
Child care workers .....	378	97.3	8.8	9.6
Cleaners and servants .....	476	95.6	32.0	22.1
Protective service .....	1,944	14.4	16.7	6.3
Supervisors, protective service .....	174	7.4	15.3	3.7
Supervisors, police and detectives .....	83	9.0	15.4	3.4
Firefighting and fire prevention .....	218	2.9	8.3	5.8
Firefighting occupations .....	195	2.1	8.6	6.4
Police and detectives .....	755	13.4	15.8	5.5
Police and detectives, public service .....	427	10.1	14.0	5.1
Sheriffs, bailiffs, and other law enforcement officers .....	111	17.4	9.2	5.4
Correctional institution officers .....	217	17.8	22.8	6.4
Guards .....	796	20.0	20.1	7.7
Guards and police, except public service .....	675	13.5	21.7	8.4
Service except private household and protective .....	12,479	65.1	17.4	10.3
Food preparation and service occupations <sup>1</sup> .....	5,182	61.6	12.4	10.2
Bartenders .....	324	49.6	2.2	5.8
Waiters and waitresses .....	1,363	82.6	3.9	5.7
Cooks, except short order .....	1,634	49.8	18.1	11.7
Short-order cooks .....	95	37.5	24.7	8.4
Food counter, fountain, and related occupations .....	325	70.2	12.5	9.0
Kitchen workers, food preparation .....	152	73.9	16.9	10.5
Waiters' and waitresses' assistants .....	339	39.9	15.3	20.0
Health service occupations .....	1,977	89.3	28.2	6.3
Dental assistants .....	165	98.7	6.8	3.9
Health aides, except nursing .....	407	83.7	17.9	7.5
Nursing aides, orderlies, and attendants .....	1,404	89.8	33.7	6.2
Cleaning and building service occupations <sup>1</sup> .....	2,994	42.6	23.0	15.2
Maid and housemen .....	644	85.0	29.0	18.2
Janitors and cleaners .....	2,133	31.2	21.1	14.6
Personal service occupations <sup>1</sup> .....	2,327	81.1	12.0	7.8
Barbers .....	94	18.3	13.3	9.9
Hairdressers and cosmetologists .....	769	89.5	8.1	7.8
Attendants, amusement and recreation facilities .....	130	40.3	6.7	4.5
Public transportation attendants .....	77	73.1	15.9	2.8
Welfare service aides .....	92	94.1	24.0	10.0
Child care workers, except private household .....	853	96.0	13.3	7.1
<b>Precision production, craft, and repair</b> .....	<b>13,664</b>	<b>8.7</b>	<b>7.5</b>	<b>8.2</b>
Mechanics and repairers .....	4,454	3.3	7.1	7.6
Mechanics and repairers, except supervisors <sup>1</sup> .....	4,198	3.1	7.2	7.8
Vehicle and mobile equipment mechanics and repairers <sup>1</sup> .....	1,811	.9	7.1	9.2
Automobile mechanics .....	879	.7	7.4	10.5
Aircraft engine mechanics .....	131	3.7	12.7	6.1
Electrical and electronic equipment repairers <sup>1</sup> .....	677	8.0	7.1	4.7
Data processing equipment repairers .....	140	8.8	6.7	2.6
Telephone installers and repairers .....	202	12.1	7.8	4.5
Construction trades .....	5,098	2.1	7.1	8.2
Construction trades, except supervisors .....	4,481	2.1	7.5	8.6
Carpenters .....	1,427	1.5	5.2	8.0
Extractive occupations .....	144	2.1	5.4	7.5
Precision production occupations .....	3,968	23.5	8.6	8.8
<b>Operators, fabricators, and laborers</b> .....	<b>17,814</b>	<b>25.7</b>	<b>15.0</b>	<b>11.1</b>
Machine operators, assemblers, and inspectors <sup>1</sup> .....	8,117	40.8	14.8	13.3
Textile, apparel, and furnishings machine operators <sup>1</sup> .....	1,355	78.0	21.0	19.2
Textile sewing machine operators .....	749	90.1	18.0	22.4
Pressing machine operators .....	146	65.7	28.1	28.3
Fabricators, assemblers, and hand working occupations .....	1,906	33.0	12.0	12.0
Production inspectors, testers, samplers, and weighers .....	849	51.6	13.9	7.1
Transportation and material moving occupations .....	4,831	8.0	14.9	7.1
Motor vehicle operators .....	3,532	4.3	13.3	6.9
Trucks, heavy and light .....	2,608	4.3	13.3	6.9
Transportation occupations, except motor vehicles .....	195	2.1	10.8	2.1
Material moving equipment operators .....	1,043	4.1	15.6	7.9
Industrial truck and tractor operators .....	431	5.7	22.6	10.7
Handlers, equipment cleaners, helpers, and laborers <sup>1</sup> .....	4,866	17.2	15.5	11.3
Freight, stock, and material handlers .....	1,756	17.5	15.8	8.7
Laborers, except construction .....	1,248	18.6	15.4	11.5
<b>Farming, forestry, and fishing</b> .....	<b>3,437</b>	<b>16.3</b>	<b>6.6</b>	<b>13.0</b>
Farm operators and managers .....	1,286	15.0	1.1	1.6
Other agricultural and related occupations .....	1,978	18.2	10.0	21.3
Farm workers .....	949	23.3	8.6	23.0
Forestry and logging occupations .....	117	4.2	11.2	4.2
Fishers, hunters, and trappers .....	56	7.3	3.1	3.0

— Represents or rounds to zero. <sup>1</sup> Includes other occupations, not shown separately.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, January 1989.

**No. 646. CIVILIAN EMPLOYMENT IN OCCUPATIONS WITH THE LARGEST JOB GROWTH AND IN THE FASTEST GROWING AND FASTEST DECLINING OCCUPATIONS: 1988 AND 2000**

[In thousands, except percent. For occupations employing 100,000 or more in 1988. Includes wage and salary jobs, self-employed and unpaid family members. Estimates based on the 1985 through 1987 Occupational Employment Statistics Surveys. See source for methodological assumptions. Minus sign (-) indicates decrease.]

OCCUPATION	EMPLOYMENT				PERCENT CHANGE 1988-2000		
	1988	2000 <sup>1</sup>			Low	Moderate	High
		Low	Moderate	High			
<b>Total<sup>2</sup></b> .....	<b>118,104</b>	<b>127,118</b>	<b>136,211</b>	<b>144,146</b>	<b>8</b>	<b>15</b>	<b>22</b>
<b>LARGEST JOB GROWTH<sup>3</sup></b>							
Salepersons, retail .....	3,834	4,225	4,564	4,785	10	19	25
Registered nurses .....	1,577	2,069	2,190	2,258	31	39	43
Janitors and cleaners <sup>4</sup> .....	2,895	3,240	3,450	3,629	12	19	25
Waiters and waitresses .....	1,788	2,188	2,337	2,415	22	31	35
General managers and top executives .....	3,030	3,269	3,509	3,710	8	16	22
General office clerks .....	2,519	2,787	2,974	3,144	11	18	25
Secretaries, except legal and medical .....	2,903	3,085	3,266	3,484	6	13	20
Nursing aides, orderlies, and attendants .....	1,164	1,489	1,562	1,806	24	32	36
Truck drivers, light and heavy .....	2,399	2,572	2,768	2,973	7	15	24
Receptionists and information clerks .....	833	1,092	1,164	1,216	31	40	46
Cashiers .....	2,310	2,429	2,614	2,733	5	13	18
Guards .....	795	983	1,050	1,129	24	32	42
Computer programmers .....	519	718	789	831	38	48	60
Food counter, fountain, and related workers .....	1,626	1,747	1,866	1,927	7	15	19
Food preparation workers .....	1,027	1,183	1,260	1,305	15	23	27
Licensed practical nurses .....	626	806	855	881	29	37	41
Teachers, secondary school .....	1,164	1,328	1,388	1,451	14	19	25
Computer systems analysts .....	403	575	617	666	43	53	65
Accountants and auditors .....	963	1,099	1,174	1,250	14	22	30
Teachers, kindergarten and elementary .....	1,359	1,489	1,567	1,638	10	15	21
Maintenance repairers, general utility .....	1,080	1,199	1,282	1,359	11	19	26
Child care workers .....	670	790	856	901	18	28	34
Gardeners and groundskeepers, except farm .....	760	884	943	1,009	16	24	33
Lawyers .....	582	712	763	806	22	31	38
Electrical and electronics engineers .....	439	585	615	676	29	40	54
Carpenters .....	1,081	1,166	1,257	1,344	8	16	24
Stock clerks, sales floor .....	1,166	1,241	1,340	1,406	6	15	21
Food service and lodging managers .....	500	670	721	755	20	29	35
Home health aides .....	236	373	397	409	58	68	73
Cooks, restaurant .....	572	680	728	754	19	27	32
Physicians .....	535	642	684	707	20	28	32
Teachers aides and educational assistants .....	682	789	827	861	16	21	26
Clerical supervisors and managers .....	1,183	1,237	1,319	1,384	5	12	18
Blue collar worker supervisors .....	1,797	1,788	1,930	2,074	-1	7	15
Electrical and electronic engineering technicians .....	341	434	471	515	27	38	51
Dining room and cafeteria attendants and bar helpers .....	448	542	578	597	21	29	33
Financial managers .....	673	750	802	848	12	18	23
Automotive mechanics .....	500	633	686	747	8	18	26
Medical secretaries .....	207	307	327	334	49	58	61
Social workers .....	385	469	495	512	22	29	33
<b>FASTEST GROWING</b>							
Medical assistants .....	149	238	253	259	60	70	74
Home health aides .....	236	373	397	409	58	68	73
Radiologic technologists and technicians .....	132	206	216	224	57	66	70
Medical secretaries .....	207	307	327	334	49	58	61
Securities and financial services sales workers .....	200	289	309	325	45	55	63
Travel agents .....	142	204	219	235	43	54	66
Computer systems analysts .....	403	575	617	666	43	53	65
Computer programmers .....	519	716	789	831	38	48	60
Human services workers .....	118	161	171	176	37	45	49
Correction officers and jailers .....	186	261	262	276	35	41	48
Electrical and electronics engineers .....	439	585	615	676	29	40	54
Receptionists and information clerks .....	833	1,092	1,164	1,216	31	40	46
<b>FASTEST DECLINING</b>							
Electrical and electronic equipment assemblers, precision .....	161	81	91	99	-50	-44	-39
Electrical and electronic assemblers .....	237	119	134	144	-50	-44	-39
Farmers .....	1,141	800	875	932	-30	-23	-18
Stenographers .....	159	116	122	130	-27	-23	-18
Telephone and cable TV line installers and repairers .....	127	94	100	106	-25	-21	-16
Sewing machine operators, garment .....	620	493	531	565	-21	-14	-9
Crushing and mixing machine operators and tenders .....	136	107	117	126	-21	-14	-7
Textile draw-out and winding machine operators <sup>5</sup> .....	227	180	197	215	-21	-16	-7
Machine feeders and offbearers .....	248	199	218	232	-20	-13	-7
Hand packers and packagers .....	635	536	560	596	-19	-12	-6
Packaging and filling machine operators and tenders .....	286	232	254	266	-19	-11	-7

<sup>1</sup> Based on low, moderate, or high trend assumptions. <sup>2</sup> Includes other occupations, not shown separately. <sup>3</sup> In descending order, based on absolute employment change 1988 to 2000 (moderate growth). <sup>4</sup> Includes maids and housekeepers. <sup>5</sup> Includes tenders.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, November 1999.

NO. 647. OCCUPATIONAL TENURE, BY OCCUPATION: 1987

[As of January. For civilian noninstitutional population. Data refer to the number of years a person worked in his or her current occupation, regardless of number of employers. Figures shown here exclude miscellaneous occupations and those not elsewhere classified. Based on Current Population Survey; see text, section 1, and Appendix III]

OCCUPATION	Total employed (1,000)	Median tenure (years)	Median age (years)	OCCUPATION	Total employed (1,000)	Median tenure (years)	Median age (years)
Total, 16 years old and over.....	109,090	6.6	35.8	<b>OCCUPATIONS WITH THE LONGEST TENURE</b>			
<b>OCCUPATIONS WITH 650,000 WORKERS OR MORE</b>				Barbers.....	88	24.8	49.5
Secretaries.....	3,897	7.5	36.1	Farmers, except horticultural.....	1,019	21.1	50.1
Supervisors and proprietors, sales.....	3,539	7.9	38.3	Railroad conductors and yardmasters.....	53	18.4	44.3
Cashiers.....	2,123	2.4	24.4	Clergy.....	347	15.8	44.8
Bookkeepers, accounting and auditing clerks.....	2,110	7.1	38.9	Dentists.....	149	15.7	43.2
Janitors and cleaners.....	2,073	4.2	38.5	Telephone line installers and repairers.....	52	15.0	36.6
Truck drivers, heavy.....	1,740	10.1	38.0	Millwrights.....	101	14.8	43.2
Cooks, except short-order.....	1,596	3.8	29.3	Locomotive operating occupations.....	72	14.8	39.3
Registered nurses.....	1,538	9.3	36.5	Managers: farms, except horticultural.....	132	14.4	39.4
Teachers, elementary schools.....	1,412	12.4	39.0	Telephone installers and repairers.....	235	14.3	38.0
Supervisors; production occupations.....	1,379	10.1	40.6	Airplane pilots and navigators.....	86	14.0	41.6
Sales representatives <sup>1</sup> .....	1,354	8.6	37.6	Supervisors; police and detectives.....	76	13.8	42.1
Accountants and auditors.....	1,317	7.6	35.0	Grader, dozer, and scraper operators.....	75	13.3	41.4
Waiters and waitresses.....	1,303	4.2	25.9	Tailors.....	51	13.3	44.2
Nursing aides, orderlies and attendants.....	1,283	5.6	36.5	Civil engineers.....	237	13.0	38.8
Carpenters.....	1,222	8.0	32.7	<b>OCCUPATIONS WITH THE SHORTEST TENURE</b>			
Teachers, secondary schools.....	1,182	12.5	39.8	Food counter, fountain, and related occupations.....	310	1.5	18.8
Laborers, except construction.....	1,161	3.7	31.3	Waiters' and waitresses' assistants.....	323	1.7	20.3
Assemblers.....	1,033	5.4	34.6	Stock handlers and baggers.....	933	1.9	21.1
Farmers, except horticultural.....	1,019	21.1	50.1	Kitchen workers, food preparation.....	107	2.1	27.2
Stock handlers and baggers.....	933	1.9	21.1	Messengers.....	149	2.3	30.3
Automobile mechanics.....	933	9.3	31.1	Vehicle washers and equipment cleaners.....	232	2.3	26.7
Computer operators.....	859	4.8	31.3	News vendors.....	101	2.3	28.4
Typists.....	829	5.2	32.8	Mail clerks, except postal service.....	181	2.3	29.8
Child-care workers, except private household.....	779	2.7	34.2	Cashiers.....	2,123	2.4	24.4
Receptionists.....	766	3.3	31.4	File clerks.....	289	2.5	28.5
Textile sewing machine operators.....	740	6.6	37.8	Short-order cooks.....	104	2.5	20.9
Real estate sales.....	726	6.0	43.5	Garage and service station related occupations.....	246	2.6	23.8
Hairdressers and cosmetologists.....	723	8.9	35.5	Salesworkers, shoes.....	102	2.6	22.3
Farm workers.....	703	7.3	30.0	Hotel clerks.....	78	2.7	27.7
General office clerks.....	695	4.0	35.1	Child-care workers, except private household.....	779	2.7	34.2
Truck drivers, light.....	674	3.2	30.2				
Electricians.....	656	11.0	36.1				

<sup>1</sup> Mining, manufacturing, and wholesale trade.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, October 1988.

NO. 648. OCCUPATION OF EMPLOYED CIVILIANS, BY SEX AND EDUCATIONAL ATTAINMENT: 1988

[As of March. For civilian noninstitutional population 25-64 years of age. Based on Current Population Survey; see text, section 1 and Appendix III]

YEARS OF SCHOOL COMPLETED	TOTAL <sup>1</sup>		MANAGERIAL/PROFES-SIONAL		TECHNICAL/SALES/ADMINISTRATIVE		SERVICE <sup>2</sup>		PRECISION PRODUCTION <sup>3</sup>		OPERATORS/FABRICATORS <sup>4</sup>	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
<b>NUMBER (1,000)</b>												
Total.....	49,918	40,476	14,888	11,570	9,738	17,472	3,907	6,435	10,151	965	9,678	3,685
Less than 4 years of high school.....	7,807	4,812	460	287	617	1,048	908	1,830	2,257	227	2,967	1,330
4 years of high school only.....	18,402	17,437	2,212	2,273	3,287	9,225	1,776	3,275	5,418	513	4,936	1,982
1 to 3 years of college.....	9,342	8,640	2,427	2,508	2,894	4,863	812	997	1,885	155	1,296	269
4 years of college or more.....	14,387	9,586	9,588	6,502	3,140	2,537	410	333	591	69	479	103
<b>PERCENT DISTRIBUTION</b>												
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 4 years of high school.....	15.6	11.9	3.1	2.5	6.3	6.0	23.2	28.4	22.2	23.5	30.7	36.1
4 years of high school only.....	36.9	43.1	15.1	19.6	33.8	52.8	45.5	50.9	53.4	53.2	51.0	53.8
1 to 3 years of college.....	18.7	21.3	16.5	21.7	27.7	26.7	20.8	15.5	18.6	16.1	13.4	7.3
4 years of college or more.....	28.8	23.7	65.3	56.2	32.2	14.5	10.5	5.2	5.8	7.2	4.9	2.8

<sup>1</sup> Includes other occupations not shown separately.

<sup>2</sup> Includes private household workers.

<sup>3</sup> Includes craft and repair.

<sup>4</sup> Includes laborers.

Source: U.S. Bureau of Labor Statistics, unpublished data.

## No. 649. OCCUPATION OF EMPLOYED CIVILIANS BY SEX, RACE, AND EDUCATIONAL ATTAINMENT: 1988

[In thousands. As of March. For civilian noninstitutional population 25-64 years of age. Based on Current Population Survey; see text, section 1 and Appendix III]

SEX, RACE, AND YEARS OF SCHOOL COMPLETED	Total employed	Mana- gerial/ profes- sional	Tech./ sales/ admini- strative	Service <sup>1</sup>	Precision produc- tion <sup>2</sup>	Operators/ fabrica- tors <sup>3</sup>	Farming, forestry, fishing
<b>Male, total:</b>							
Less than 4 years of high school.....	7,807	460	617	908	2,257	2,967	596
4 years of high school only.....	18,402	2,212	3,287	1,776	5,418	4,936	774
1 to 3 years of college.....	9,342	2,427	2,694	812	1,885	1,296	227
4 years of college or more.....	14,367	9,588	3,140	410	591	479	159
White:							
Less than 4 years of high school.....	6,586	419	526	672	2,013	2,432	523
4 years of high school only.....	18,258	2,075	2,961	1,345	4,995	4,144	739
1 to 3 years of college.....	8,220	2,229	2,368	631	1,706	1,068	216
4 years of college or more.....	12,972	8,770	2,829	332	524	363	157
Black:							
Less than 4 years of high school.....	1,053	30	81	194	202	482	64
4 years of high school only.....	1,788	96	241	350	367	707	27
1 to 3 years of college.....	840	141	226	140	122	208	4
4 years of college or more.....	659	385	130	47	29	65	2
<b>Female, total:</b>							
Less than 4 years of high school.....	4,812	267	1,048	1,830	227	1,330	86
4 years of high school only.....	17,437	2,273	9,225	3,275	513	1,982	171
1 to 3 years of college.....	8,840	2,508	4,683	987	155	269	48
4 years of college or more.....	9,586	6,502	2,537	333	69	103	41
White:							
Less than 4 years of high school.....	3,781	234	947	1,255	187	1,075	83
4 years of high school only.....	15,052	2,054	8,251	2,613	433	1,539	163
1 to 3 years of college.....	7,420	2,222	3,993	820	131	205	48
4 years of college or more.....	8,310	5,724	2,163	257	58	68	41
Black:							
Less than 4 years of high school.....	874	33	91	518	26	205	2
4 years of high school only.....	2,024	187	822	585	54	369	6
1 to 3 years of college.....	940	217	509	146	17	49	-
4 years of college or more.....	805	515	221	50	10	10	-

- Represents zero. <sup>1</sup> Includes private household workers. <sup>2</sup> Includes craft and repair. <sup>3</sup> Includes laborers.

Source: U.S. Bureau of Labor Statistics, unpublished data.

## No. 650. EMPLOYMENT BY INDUSTRY, 1970 TO 1988, AND BY SELECTED CHARACTERISTICS, 1988

[In thousands, except percent. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III. Data from 1985 forward not strictly comparable with earlier years due to changes in industrial classification]

INDUSTRY	1970	1980	1985	1986	1987	1988			
						Total	Percent		
							Fe- male	Black	His- panic <sup>1</sup>
<b>Total employed</b> .....	<b>78,678</b>	<b>99,303</b>	<b>107,150</b>	<b>109,597</b>	<b>112,440</b>	<b>114,968</b>	<b>45.0</b>	<b>10.1</b>	<b>7.2</b>
Agriculture.....	3,463	3,364	3,179	3,163	3,208	3,169	21.3	4.9	12.8
Mining.....	516	979	939	880	818	753	16.8	3.9	5.3
Construction.....	4,818	6,215	6,987	7,288	7,456	7,603	9.3	6.8	7.8
Manufacturing.....	20,746	21,942	20,879	20,962	20,935	21,320	32.9	10.2	8.3
Transportation, communication, and other public utilities.....	5,320	6,525	7,548	7,650	7,980	8,064	27.4	14.3	6.2
Wholesale and retail trade.....	15,008	20,191	22,298	22,813	23,392	23,663	47.4	7.8	7.4
Wholesale trade.....	2,672	3,920	4,341	4,416	4,580	4,578	28.0	5.7	7.4
Retail trade.....	12,336	16,270	17,955	18,397	18,812	19,085	52.1	8.3	7.4
Finance, insurance, real estate.....	3,945	5,993	7,005	7,401	7,763	7,921	59.2	8.0	5.7
Banking and other finances.....	1,697	2,568	3,135	3,263	3,421	3,454	64.8	8.3	6.0
Insurance and real estate.....	2,248	3,425	3,870	4,137	4,342	4,466	54.9	7.7	5.5
Services <sup>2</sup> .....	20,385	28,752	33,322	34,337	35,743	37,043	61.3	11.8	6.5
Business services <sup>2</sup> .....	1,403	2,361	3,999	4,306	4,706	5,051	67.7	11.8	7.7
Advertising.....	147	191	263	270	293	288	48.1	6.2	4.2
Services to dwellings and buildings.....	(NA)	370	571	601	675	791	47.3	17.0	18.5
Personnel supply services.....	(NA)	235	590	618	640	736	79.9	21.7	6.9
Business management/consulting.....	(NA)	307	395	446	460	561	48.6	7.3	3.9
Computer and data processing.....	(NA)	221	549	610	663	713	36.2	8.6	3.9
Detective/protective services.....	(NA)	213	318	335	371	345	19.1	21.3	8.1
Automobile services.....	600	952	1,322	1,280	1,271	1,341	12.6	8.3	11.3
Personal services <sup>2</sup> .....	4,276	3,839	4,352	4,472	4,598	4,727	72.3	14.7	11.9
Private households.....	1,782	1,257	1,254	1,241	1,216	1,163	86.0	22.6	15.3
Hotels and lodging places.....	979	1,149	1,451	1,523	1,597	1,702	64.5	13.9	13.0
Entertainment and recreation.....	717	1,047	1,278	1,292	1,353	1,421	39.9	9.1	6.3
Professional and related services <sup>2</sup> .....	12,904	19,853	21,563	22,174	22,963	23,725	67.4	11.9	4.9
Hospitals.....	2,843	4,036	4,269	4,386	4,444	4,520	76.9	16.8	5.3
Health services, except hospitals.....	1,628	3,245	3,641	3,761	4,034	4,251	76.3	12.2	5.0
Elementary, secondary schools.....	6,126	5,550	5,431	5,610	5,550	5,737	71.6	11.8	5.2
Colleges and universities.....	6,126	2,108	2,281	2,342	2,378	2,425	51.0	9.6	4.1
Social services.....	828	1,590	1,682	1,805	1,946	2,042	77.7	16.4	6.8
Legal services.....	429	776	995	1,034	1,138	1,177	55.4	5.1	4.1
Public administration <sup>3</sup> .....	4,476	5,342	4,995	5,104	5,246	5,432	42.7	14.4	5.9

NA Not available. <sup>1</sup> Hispanic persons may be of any race. <sup>2</sup> Includes industries not shown separately. <sup>3</sup> Includes workers involved in uniquely governmental activities, e.g., judicial and legislative.

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

# Employment by Industry

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## NO. 651. EMPLOYMENT BY SELECTED INDUSTRY, 1970 TO 1988, AND PROJECTIONS, 2000

[In thousands, except percent. Figures may differ from those in other tables since these data exclude establishments not elsewhere classified (SIC 99); in addition, agriculture services (SIC 074, 5, 8) are included in agriculture, not services. See source for details.]

SIC <sup>1</sup> code	INDUSTRY	EMPLOYMENT				ANNUAL AVERAGE RATE OF CHANGE		
		1970	1980	1988	2000 <sup>2</sup>	1970-1980	1980-1988	1988-2000 <sup>2</sup>
(X)	<b>Total</b> .....	<b>81,664</b>	<b>102,019</b>	<b>118,104</b>	<b>136,211</b>	<b>2.3</b>	<b>1.8</b>	<b>1.2</b>
(X)	Nonfarm wage and salary.....	70,725	90,043	104,960	122,056	2.4	1.9	1.3
(X)	Goods-producing (excluding agriculture).....	23,578	25,659	25,252	25,680	.8	-2	.1
10-14	Mining.....	623	1,027	721	705	5.1	-4.3	-2
15-17	Construction.....	3,588	4,346	5,125	5,885	1.9	2.1	1.2
20-39	Manufacturing.....	19,367	20,286	19,406	19,090	.5	-6	-1
24, 25, 32-39	Durable.....	11,210	12,188	11,436	11,220	.8	-8	-2
24	Lumber and wood products.....	646	691	765	740	.7	1.3	-3
25	Furniture and fixtures.....	440	465	530	600	.6	1.6	1.0
32	Stone, clay, and glass products.....	644	662	600	580	.3	-1.2	-3
33	Primary metal industries.....	1,260	1,142	772	700	-1.0	-4.8	-8
331	Blast furnaces and basic steel products.....	627	512	277	241	-2.0	-7.4	-1.2
34	Fabricated metal products.....	1,560	1,613	1,431	1,352	.3	-1.5	-5
35	Machinery, except electrical.....	1,984	2,494	2,082	2,059	2.3	-2.2	-1
3573	Electronic computing equipment.....	194	354	418	453	6.2	2.1	.7
36	Electrical and electronic equipment <sup>3</sup> .....	1,871	2,091	2,071	2,014	1.1	-1	-2
3662	Radio and TV communication equipment.....	362	378	456	463	.4	2.4	.1
3674	Semiconductors and related devices.....	(NA)	223	262	285	(NA)	4.0	.7
37	Transportation equipment.....	1,852	1,900	2,050	2,002	.3	1.0	-2
371	Motor vehicles.....	799	788	856	786	-1	1.0	-7
38	Instruments and related products.....	527	712	749	822	3.1	6	.8
39	Miscellaneous manufacturing.....	426	418	386	350	-2	-1.0	-8
20-23, 26-31	Nonurable.....	8,157	8,098	7,970	7,870	-1	-2	-1
20	Food and kindred products.....	1,786	1,708	1,836	1,563	-4	-5	-4
21	Tobacco manufactures.....	83	69	56	40	-1.8	-2.6	-2.8
22	Textile mill products.....	274	847	729	627	-1.4	-1.9	-1.2
23	Apparel and other textile products.....	1,364	1,264	1,093	920	-8	-1.8	-1.4
26	Paper and allied products.....	705	693	693	690	-2	-	-
27	Printing and publishing.....	1,104	1,252	1,582	1,751	1.3	2.6	1.0
28	Chemicals and allied products.....	1,049	1,107	1,065	1,084	.5	-5	-1
29	Petroleum and coal products.....	192	198	162	140	.3	-2.5	-1.2
30	Rubber and miscellaneous plastics products.....	580	727	830	941	2.3	1.7	1.1
31	Leather and leather products.....	320	233	144	114	-3.1	-5.8	-1.9
(X)	Service-producing.....	47,147	64,384	79,708	96,376	3.2	2.7	1.6
40-42, 44-49	Transportation and public utilities.....	4,517	5,146	5,548	6,097	1.3	.9	.8
40-42, 44-47	Transportation.....	2,696	2,962	3,334	3,705	.9	1.5	.9
48	Communications.....	1,130	1,357	1,281	1,344	1.8	-7	.4
49	Public utilities.....	691	827	833	1,048	1.8	1.5	1.0
50-51	Wholesale trade.....	3,993	5,275	6,029	6,936	2.8	1.7	1.2
52-59	Retail trade.....	11,048	15,035	19,110	22,875	3.1	3.0	1.5
58	Eating and drinking places.....	2,575	4,626	6,282	7,796	6.0	3.9	1.8
60-67	Finance, insurance, and real estate.....	3,846	5,159	6,677	7,762	3.5	3.3	1.3
70-86, 89	Services <sup>4</sup> .....	11,390	17,528	24,971	33,717	4.4	4.5	2.5
70	Hotels and other lodging places.....	(NA)	1,076	1,550	1,960	(NA)	4.7	2.0
72	Personal services.....	989	901	1,174	1,418	-9	3.4	1.6
73	Business services <sup>5</sup> .....	1,676	3,092	5,570	8,311	6.3	7.6	3.4
734	Services to dwellings and other buildings.....	295	495	785	1,028	5.3	5.9	2.3
736	Personnel supply services.....	(NA)	563	1,369	2,218	(NA)	11.7	4.1
737	Computer and data processing services.....	(NA)	304	678	1,200	(NA)	10.5	4.9
7391, 2, 7	Research, management, and consulting services.....	(NA)	539	811	1,190	(NA)	5.2	3.2
79	Amusement and recreation services.....	468	764	918	1,152	5.0	2.3	1.9
80	Health services.....	3,053	5,278	7,144	10,139	5.6	3.9	3.0
801-4	Offices of health practitioners.....	(NA)	1,211	1,850	2,810	(NA)	5.4	3.5
805	Nursing and personal care facilities.....	(NA)	997	1,319	1,907	(NA)	5.6	3.1
806	Hospitals, private.....	1,863	2,750	3,300	4,245	4.0	2.3	2.1
807-9	Outpatient facilities and health services, n.e.c. <sup>6</sup> .....	(NA)	320	675	1,177	(NA)	9.8	4.7
81	Legal services.....	236	496	852	1,181	7.8	6.9	2.8
82	Educational services.....	940	1,138	1,557	1,780	1.9	4.0	1.1
83, 4, 6, 9	Social, membership, and miscellaneous services.....	(NA)	3,704	4,781	6,046	(NA)	3.2	2.0
(X)	Government.....	12,553	16,241	17,373	18,989	2.6	.8	.7
(X)	Federal government.....	2,731	2,866	2,971	3,059	.5	.5	.2
(X)	State and local government.....	9,822	13,375	14,402	15,930	3.1	.9	.8
01, 2, 7, 8, 9	Agriculture.....	3,506	3,426	3,259	3,125	-2	-6	-3
88	Private households.....	1,794	1,256	1,163	1,103	-3.5	-1.0	-4
(X)	Nonfarm self-employed and unpaid family workers.....	5,639	7,294	8,722	9,927	2.6	2.3	1.1

- Represents or rounds to zero. NA Not available. X Not applicable. <sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> Projections based on assumptions of moderate growth; see source for details. <sup>3</sup> Includes other industries, not shown separately. <sup>4</sup> N.e.c. means not elsewhere classified.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, November 1989.

## No. 652. UNEMPLOYED WORKERS—SUMMARY: 1975 TO 1988

[In thousands, except as indicated. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. For data on unemployment insurance, see table 597. See also *Historical Statistics, Colonial Times to 1970*, series D 87-101]

ITEM AND CHARACTERISTIC	1975	1980	1982	1983	1984	1985	1986	1987	1988
UNEMPLOYED									
Total <sup>1</sup> .....	7,929	7,637	10,678	10,717	8,539	8,312	8,237	7,425	6,701
Labor force time lost <sup>2</sup> (percent).....	9.1	7.9	11.0	10.9	8.6	8.1	7.9	7.1	6.3
16-19 years old.....	1,767	1,869	1,977	1,829	1,499	1,468	1,454	1,347	1,226
20-24 years old.....	1,865	1,835	2,392	2,330	1,838	1,739	1,651	1,453	1,261
25-44 years old.....	2,727	2,964	4,589	4,728	3,709	3,681	3,781	3,410	3,095
45-64 years old.....	1,413	1,075	1,613	1,716	1,394	1,331	1,279	1,135	1,032
65 years and over.....	155	94	107	114	97	93	91	78	87
Male.....	4,442	4,267	6,179	6,260	4,744	4,521	4,530	4,101	3,655
16-19 years old.....	966	913	1,090	1,003	812	806	779	732	667
20-24 years old.....	1,081	1,076	1,407	1,369	1,023	944	899	779	676
25-44 years old.....	1,493	1,619	2,670	2,769	2,050	1,950	2,054	1,858	1,857
45-64 years old.....	801	600	943	1,046	806	786	741	684	606
65 years and over.....	103	58	69	73	53	55	58	49	49
Female.....	3,486	3,370	4,499	4,457	3,794	3,791	3,707	3,324	3,046
16-19 years old.....	802	755	886	825	687	661	675	616	558
20-24 years old.....	783	760	985	961	815	794	752	674	585
25-44 years old.....	1,235	1,345	1,919	1,958	1,659	1,732	1,708	1,552	1,439
45-64 years old.....	612	473	670	671	589	566	539	453	427
65 years and over.....	52	36	38	41	45	39	33	30	38
White <sup>3</sup> .....	6,421	5,884	8,241	8,128	6,372	6,191	6,140	5,501	4,944
16-19 years old.....	1,413	1,291	1,534	1,387	1,116	1,074	1,070	995	910
20-24 years old.....	1,474	1,364	1,770	1,678	1,282	1,235	1,149	1,017	874
Black <sup>3</sup> .....	1,369	1,553	2,142	2,272	1,914	1,864	1,840	1,684	1,547
16-19 years old.....	330	343	396	392	353	357	347	312	288
20-24 years old.....	362	426	565	591	504	455	453	397	349
Hispanic <sup>3,4</sup> .....	508	620	929	961	800	811	857	751	732
16-19 years old.....	(NA)	145	175	167	149	141	141	136	148
20-24 years old.....	(NA)	138	221	214	164	171	183	152	145
Full-time workers.....	6,523	6,269	9,008	9,075	7,057	6,793	6,708	5,979	5,357
Part-time workers.....	1,406	1,368	1,672	1,642	1,481	1,519	1,529	1,448	1,343
UNEMPLOYMENT RATE (percent) <sup>5</sup>									
Total <sup>1</sup> .....	8.6	7.1	9.7	9.6	7.5	7.2	7.0	6.2	6.5
16-19 years old.....	19.9	17.8	23.2	22.4	18.9	18.6	18.3	16.9	15.3
20-24 years old.....	13.6	11.5	14.9	14.5	11.5	11.1	10.7	9.7	8.7
25-44 years old.....	6.9	6.0	8.8	8.5	6.4	6.2	6.1	5.4	4.8
45-64 years old.....	5.0	3.7	5.6	5.9	4.8	4.5	4.3	3.8	3.3
65 years and over.....	5.2	3.1	3.5	3.7	3.3	3.2	3.0	2.5	2.7
Male.....	7.9	6.9	9.9	9.9	7.4	7.0	6.9	6.2	5.5
16-19 years old.....	20.1	18.3	24.4	23.3	19.6	19.5	19.0	17.8	16.0
20-24 years old.....	14.3	12.5	16.4	15.9	11.9	11.4	11.0	9.9	8.9
25-44 years old.....	6.1	5.6	8.7	8.8	6.3	5.9	6.0	5.3	4.6
45-64 years old.....	4.6	3.5	5.6	6.2	4.8	4.5	4.4	4.0	3.5
65 years and over.....	5.4	3.1	3.7	3.9	3.0	3.1	3.2	2.6	2.5
Female.....	9.3	7.4	9.4	9.2	7.6	7.4	7.1	6.2	5.6
16-19 years old.....	19.7	17.2	21.9	21.3	18.0	17.6	17.6	15.9	14.4
20-24 years old.....	12.7	10.4	13.2	12.9	10.9	10.7	10.3	9.4	8.5
25-44 years old.....	8.1	6.4	8.3	8.2	6.6	6.6	6.2	5.5	4.9
45-64 years old.....	5.6	4.0	5.6	5.6	4.9	4.6	4.2	3.5	3.2
65 years and over.....	5.0	3.1	3.2	3.4	3.8	3.3	2.8	2.4	2.9
White <sup>3</sup> .....	7.8	6.3	8.6	8.4	6.5	6.2	6.0	5.3	4.7
16-19 years old.....	17.9	15.5	20.4	19.3	16.0	15.7	15.6	14.4	13.1
20-24 years old.....	12.3	9.9	12.8	12.1	9.3	9.2	8.7	8.0	7.1
Black <sup>3</sup> .....	14.8	14.3	18.9	19.5	15.9	15.1	14.5	13.0	11.7
16-19 years old.....	39.5	38.5	48.0	48.5	42.7	40.2	39.3	34.7	32.4
20-24 years old.....	24.5	23.6	30.5	31.4	26.1	24.5	24.1	21.8	19.6
Hispanic <sup>3,4</sup> .....	12.2	10.1	13.8	13.7	10.7	10.5	10.6	8.8	8.2
16-19 years old.....	(NA)	22.5	29.9	28.4	24.1	24.3	24.7	22.3	22.0
20-24 years old.....	(NA)	12.1	17.7	16.7	12.4	12.6	12.9	10.6	9.8
Experienced workers <sup>6</sup> .....	8.2	6.9	9.3	9.2	7.1	6.8	6.6	5.8	5.2
Women maintaining families <sup>1</sup> .....	10.0	9.2	11.7	12.3	10.4	10.5	9.9	9.3	8.2
White.....	8.5	7.3	9.4	9.2	7.8	8.1	7.8	6.8	6.0
Black.....	(NA)	14.0	18.0	20.2	16.7	16.4	15.4	15.4	13.7
Married men, wife present <sup>1</sup> .....	5.1	4.2	6.5	6.5	4.6	4.3	4.4	3.9	3.3
White.....	4.8	3.9	6.0	6.0	4.3	4.0	4.0	3.6	3.0
Black.....	8.7	7.4	11.5	11.3	8.1	8.0	8.0	6.5	5.8
Percent without work for—									
Less than 6 weeks.....	37.1	43.1	36.4	33.3	39.2	42.1	41.9	43.7	46.0
5-10 weeks.....	22.2	23.4	21.7	19.4	20.6	22.2	22.6	21.6	22.2
11-14 weeks.....	9.1	9.0	9.4	8.0	8.1	8.0	8.4	7.9	7.8
15-26 weeks.....	16.4	13.8	16.0	15.4	12.9	12.3	12.7	12.7	12.0
27 weeks and over.....	15.2	10.7	18.6	23.9	19.1	15.4	14.4	14.0	12.1
Unemployment duration, average (weeks).....	14.2	11.9	15.6	20.0	18.2	15.6	15.0	14.5	13.5

NA Not available. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Aggregate hours lost by the unemployed and persons on part-time for economic reasons as a percent of potentially available labor force hours. <sup>3</sup> Includes other ages, not shown separately. <sup>4</sup> Hispanic persons may be of any race. <sup>5</sup> Unemployed as percent of civilian labor force in specified group. <sup>6</sup> Wage and salary workers.

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

**NO. 653. UNEMPLOYED PERSONS, BY SEX AND REASON, 1970 TO 1988, AND BY DURATION, 1988**

(In thousands, except as indicated. For civilian noninstitutional population 16 years old and over. Annual averages of monthly figures. Based on Current Population Survey; see text, section 1 and Appendix III)

SEX AND REASON UNEMPLOYED	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988			
											Total	Duration of unemployment (percent)		
												Less than 5 weeks	5 to 14 weeks	15 weeks and over
<b>Male</b> .....	2,238	4,442	4,267	4,577	6,179	6,260	4,744	4,521	4,530	4,101	3,655	41.2	30.8	28.0
Job losers.....	1,199	2,909	2,649	2,821	4,278	4,331	2,976	2,749	2,725	2,432	2,078	35.4	31.4	33.2
Job leavers.....	282	375	438	435	390	386	375	409	520	494	503	49.6	30.6	19.8
Reentrants.....	533	782	776	850	946	953	867	876	805	761	697	46.8	29.7	23.5
New entrants.....	224	377	405	472	565	589	526	487	480	413	376	51.3	30.4	18.3
<b>Female</b> .....	1,855	3,486	3,370	3,696	4,499	4,457	3,794	3,791	3,707	3,324	3,046	51.8	29.0	19.3
Job losers.....	614	1,478	1,297	1,446	1,990	1,926	1,445	1,390	1,306	1,134	1,014	40.6	32.1	27.3
Job leavers.....	267	452	454	488	450	444	449	468	494	471	479	55.6	30.0	14.4
Reentrants.....	696	1,110	1,151	1,252	1,438	1,459	1,317	1,380	1,355	1,213	1,112	56.9	26.8	16.3
New entrants.....	279	447	468	509	621	627	584	552	549	506	440	60.4	26.2	13.4

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly, and Bulletin 2307.**NO. 654. UNEMPLOYMENT RATES, BY EDUCATIONAL ATTAINMENT, SEX, AND RACE: 1970 TO 1988**

(In percent. As of March. Civilian noninstitutional population 25 to 64 years of age. Based on Current Population Survey; see text, section 1 and Appendix III)

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>Total</b> <sup>1</sup> .....	3.3	6.9	5.8	4.5	4.4	5.0	5.8	7.6	9.0	6.6	6.1	6.1	5.7	4.7
High school: 1-3 years.....	4.6	10.7	9.0	7.4	7.2	8.4	10.1	12.5	15.8	12.1	11.4	11.6	11.1	9.6
4 years.....	2.9	6.9	5.6	4.5	4.4	5.1	6.2	8.5	10.0	7.2	6.9	6.9	6.3	5.4
College: 1-3 years.....	2.9	5.5	5.0	3.3	3.5	4.3	4.5	6.4	7.3	5.3	4.7	4.7	4.5	3.7
4 years or more.....	1.3	2.5	2.8	2.2	2.1	1.9	2.2	3.0	3.5	2.7	2.4	2.3	2.3	1.7
<b>Male: Total</b> <sup>1</sup> .....	2.9	6.7	5.3	4.2	4.0	4.9	5.8	7.9	9.8	6.9	6.1	6.2	6.0	5.1
High school: 1-3 years.....	4.0	10.5	8.6	7.1	6.6	8.2	10.2	12.7	16.1	12.3	11.2	11.7	11.2	10.1
4 years.....	2.4	6.7	5.1	4.2	4.2	5.3	6.6	9.3	11.9	8.1	7.2	7.4	6.7	6.2
College: 1-3 years.....	2.7	5.1	4.5	3.1	3.2	4.4	4.4	6.8	8.4	5.2	4.5	4.7	5.0	3.9
4 years or more.....	1.1	2.2	2.4	1.9	1.7	1.7	1.9	2.9	3.4	2.7	2.4	2.3	2.5	1.6
<b>Female: Total</b> <sup>1</sup> .....	4.0	7.4	6.5	5.0	4.9	5.0	5.7	7.2	7.9	6.1	6.0	5.8	5.2	4.2
High school: 1-3 years.....	5.7	10.5	9.7	7.9	8.3	8.9	10.0	12.2	15.3	11.7	11.7	11.4	10.9	8.9
4 years.....	3.6	7.1	6.2	4.9	4.7	5.0	5.8	7.8	8.0	6.3	6.5	6.3	5.8	4.6
College: 1-3 years.....	3.1	6.3	5.7	3.6	3.8	4.1	4.6	5.3	6.0	5.3	4.8	4.8	4.0	3.4
4 years or more.....	1.9	3.4	3.6	2.6	2.8	2.2	2.7	3.3	3.7	2.7	2.5	2.4	2.1	1.9
<b>White: Total</b> <sup>1</sup> .....	3.1	6.5	5.3	4.0	3.9	4.4	5.1	6.8	8.0	5.7	5.3	5.5	5.0	4.0
High school: 1-3 years.....	4.5	10.1	8.4	6.7	6.5	7.8	9.2	12.2	15.0	10.9	10.6	10.9	10.2	8.3
4 years.....	2.7	6.5	5.2	4.0	3.9	4.6	5.6	7.6	8.9	6.4	6.1	6.2	5.5	4.6
College: 1-3 years.....	2.8	5.1	4.6	2.9	3.1	3.9	4.0	5.5	6.5	4.6	3.9	4.2	4.1	3.2
4 years or more.....	1.3	2.4	2.5	2.0	2.0	1.8	2.1	2.8	3.1	2.4	2.1	2.2	2.2	1.5
<b>Black: Total</b> <sup>1, 2</sup> .....	4.7	10.9	10.1	6.9	6.9	9.6	11.4	13.9	16.8	13.3	12.0	10.7	10.8	10.0
High school: 1-3 years.....	5.2	13.5	11.7	10.7	10.6	11.7	14.3	14.4	19.9	17.4	15.3	15.3	14.8	15.7
4 years.....	5.2	10.7	10.1	9.3	9.3	9.5	11.8	16.4	18.9	14.5	13.0	11.7	11.7	11.2
College: 1-3 years.....	3.5	9.8	10.5	6.7	6.7	9.0	9.5	12.5	13.3	9.7	10.6	8.7	7.6	7.4
4 years or more.....	.9	3.9	2.8	4.2	3.9	4.0	4.0	7.1	8.1	6.2	5.4	3.2	4.2	3.3

<sup>1</sup> Includes persons reporting no school years completed. <sup>2</sup> For 1970 and 1975, data refer to Black and other workers.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307 and unpublished data.

**NO. 655. UNEMPLOYMENT RATES, BY INDUSTRY, 1975 TO 1988, AND BY SEX, 1980 AND 1988**

(In percent. For civilian noninstitutional population 16 years old and over. Rate represents unemployment as a percent of labor force in each specified group. Annual averages of monthly figures. Beginning 1983, data not strictly comparable with earlier years due to changes in industrial classification)

INDUSTRY	1975	1980	1983	1984	1985	1986	1987	1988	MALE		FEMALE	
									1980	1988	1980	1988
									<b>All unemployed</b> <sup>1</sup> .....	8.5	7.1	9.6
<b>Industry:</b> <sup>2</sup>												
Agriculture.....	10.3	11.0	16.0	13.5	13.2	12.5	10.5	10.6	9.7	10.2	15.1	12.0
Mining.....	4.1	6.4	17.0	10.0	9.5	13.5	10.0	7.9	6.8	8.5	4.5	4.6
Construction.....	18.0	14.1	18.4	14.3	13.1	11.1	11.6	10.8	14.7	11.1	8.8	6.4
Manufacturing.....	10.9	8.5	11.2	7.5	7.7	7.1	6.0	5.3	7.4	4.7	10.7	6.4
Transportation and public utilities.....	5.6	4.9	7.4	5.5	5.1	5.1	4.5	3.9	5.1	3.9	4.4	3.7
Wholesale and retail trade.....	8.7	7.4	10.0	8.0	7.6	6.9	6.2	6.6	6.6	5.8	8.3	6.9
Finance, insurance, and real estate.....	4.9	3.4	4.5	3.7	3.5	3.5	3.1	3.0	3.2	2.8	3.5	3.2
Services.....	7.1	5.9	7.9	6.6	6.2	6.1	5.4	4.9	6.2	5.0	5.7	4.9
Government.....	4.1	4.1	5.3	4.5	3.9	3.6	3.5	2.8	3.8	2.9	4.3	2.7

<sup>1</sup> Includes the self-employed, unpaid family workers, and persons with no previous work experience, not shown separately.<sup>2</sup> Covers unemployed wage and salary workers.Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.



**NO. 656. UNEMPLOYMENT AND UNEMPLOYMENT RATES BY OCCUPATION, 1983 TO 1988, AND BY SEX, 1988**

[For civilian noninstitutional population 16 years old and over. Beginning 1985, annual averages of monthly data; 1983 data estimated, see text, section 13. Rate represents unemployment as a percent of the labor force for each specified group. Based on Current Population Survey; see text, section 1, and Appendix III]

OCCUPATION	NUMBER (1,000)			UNEMPLOYMENT RATE				
	1983	1985	1988	1983	1985	1988		
						Total	Male	Female
<b>Total</b> <sup>1</sup> .....	<b>10,717</b>	<b>8,312</b>	<b>6,701</b>	<b>9.6</b>	<b>7.2</b>	<b>6.5</b>	<b>5.5</b>	<b>5.6</b>
Managerial and professional specialty.....	795	645	577	3.3	2.4	1.9	1.8	2.1
Executive, administrative, and managerial.....	398	329	311	3.5	2.6	2.1	2.0	2.3
Professional specialty.....	399	316	266	3.0	2.3	1.7	1.6	1.9
Technical sales, and administrative support.....	2,116	1,894	1,479	6.3	4.9	4.0	3.3	4.3
Technicians and related support.....	152	110	95	4.7	3.3	2.6	2.4	2.8
Sales occupations.....	850	702	652	6.7	5.3	4.5	3.1	6.0
Administrative support, including clerical.....	1,114	882	732	6.4	4.9	3.9	4.3	3.8
Service occupations.....	1,697	1,386	1,136	10.9	8.8	6.9	6.7	7.0
Private household.....	79	69	54	7.4	6.4	5.7	11.2	5.4
Protective service.....	120	85	81	6.7	4.7	4.0	3.5	7.0
Service except private household and protective....	1,498	1,293	1,000	11.8	9.5	7.4	7.8	7.2
Precision production, craft, and repair.....	1,466	1,038	773	10.6	7.2	5.4	5.3	5.7
Mechanics and repairs.....	344	225	166	7.6	4.8	3.6	3.5	5.5
Construction trades.....	709	531	405	14.2	10.1	7.4	7.3	8.5
Other precision production, craft, and repair.....	412	281	202	9.6	6.4	4.7	4.5	5.4
Operators, fabricators, and laborers.....	2,955	2,140	1,620	15.5	11.3	8.3	8.1	8.9
Machine operators, assemblers, inspectors.....	1,411	980	673	15.4	11.1	7.7	6.7	9.0
Transportation and material moving occupations....	596	422	317	12.4	8.5	6.2	6.2	5.2
Handlers, equipment cleaners, helpers, laborers....	948	739	630	16.6	14.3	11.5	11.7	10.3
Construction laborers.....	207	166	192	25.8	21.3	19.4	19.3	(9)
Farming, forestry, and fishing.....	407	315	260	9.9	8.3	7.0	6.8	8.3

B Base is less than 35,000. <sup>1</sup> Includes persons with no previous work experience and those whose last job was in the Armed Forces.

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

**NO. 657. RANGE OF UNEMPLOYMENT MEASURES BASED ON VARYING DEFINITIONS OF UNEMPLOYMENT AND THE LABOR FORCE: 1970 TO 1988**

[In percent. Annual averages of monthly figures. Based on Current Population Survey, see text, section 1, and Appendix III]

MEASURE	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Persons unemployed 15 weeks or longer as a percent of the civilian labor force.....	.8	2.7	1.7	2.1	3.2	3.8	2.4	2.0	1.9	1.7	1.3
Job losers as a percent of the civilian labor force.....	2.2	4.7	3.7	3.9	5.7	5.6	3.9	3.6	3.4	3.0	2.5
Unemployed persons 25 years and over as a percent of the 25 and over civilian labor force....	3.3	6.0	5.1	5.4	7.4	7.5	5.8	5.6	5.4	4.8	4.3
Unemployed full-time jobseekers as a percent of the full-time civilian labor force.....	4.5	8.1	6.9	7.3	9.6	9.5	7.2	6.8	6.6	5.8	5.2
Total unemployed as a percent of the labor force, including the resident Armed Forces <sup>1</sup> .....	4.8	8.3	7.0	7.5	9.5	9.5	7.4	7.1	6.9	6.1	5.4
Total unemployed as a percent of the civilian labor force <sup>1</sup> .....	4.9	8.5	7.1	7.6	9.7	9.6	7.5	7.2	7.0	6.2	5.5
Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part-time for economic reasons as a percent of the civilian labor force less 1/2 of the part-time labor force.....	6.3	10.5	9.2	9.8	12.6	12.6	10.1	9.6	9.4	8.5	7.6
Total full-time jobseekers plus 1/2 part-time jobseekers plus 1/2 total on part-time for economic reasons plus discouraged workers as a percent of the civilian labor force plus discouraged workers less 1/2 of the part-time labor force.....	7.1	11.6	10.1	10.8	14.0	13.9	11.2	10.6	10.3	9.3	8.4

<sup>1</sup> Current unemployment rate definition.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307; *Employment and Earnings*, monthly, and unpublished data.

No. 658. TOTAL UNEMPLOYED AND INSURED UNEMPLOYED—STATES: 1980 TO 1988

[For civilian noninstitutional population 18 years old and over. Annual averages of monthly figures. Total unemployment estimates based on the Current Population Survey (CPS); see text, section 1, and Appendix III. U.S. totals derived by independent population controls; therefore State data may not add to U.S. totals]

DIVISION AND STATE	TOTAL UNEMPLOYED										INSURED UNEMPLOYED <sup>2</sup>			
	Number (1,000)					Percent <sup>1</sup>					Number (1,000)	Percent <sup>2</sup>		
	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988	1987	1988	1987	1988
<b>U.S.</b> .....	<b>7,537</b>	<b>8,312</b>	<b>8,237</b>	<b>7,425</b>	<b>6,701</b>	<b>7.1</b>	<b>7.2</b>	<b>7.0</b>	<b>6.2</b>	<b>6.5</b>	<b>2,300</b>	<b>2,081</b>	<b>2.4</b>	<b>2.1</b>
<b>N. Eng.: ME</b> .....	39	30	30	26	22	7.8	5.4	5.3	4.4	3.8	10.1	8.9	2.2	1.8
NH.....	22	21	16	15	15	4.7	3.9	2.8	2.5	2.4	2.6	2.7	5.5	5.5
VT.....	16	13	14	11	8	6.4	4.8	4.7	3.6	2.8	4.3	4.1	1.9	1.7
MA.....	162	121	117	99	103	5.6	3.9	3.8	3.2	3.3	53.3	57.9	1.8	1.9
RI.....	34	25	21	20	16	7.2	4.9	4.0	3.8	3.1	11.5	11.5	2.7	2.6
CT.....	94	83	66	58	52	5.9	4.9	3.8	3.3	3.0	20.2	20.8	1.3	1.3
<b>Mid. Atl.: NY</b> .....	597	544	526	412	358	7.5	6.5	6.3	4.9	4.2	170.4	161.8	2.2	2.1
NJ.....	259	218	196	160	151	7.2	5.7	5.0	4.0	3.8	71.2	70.5	2.1	2.0
PA.....	425	442	386	320	294	7.8	8.0	6.8	5.7	5.1	132.6	118.5	2.9	2.5
<b>E. No. Cent.: OH</b> .....	426	455	426	367	320	8.4	8.9	8.1	7.0	6.0	103.8	89.4	2.4	2.0
IN.....	252	215	185	175	150	9.6	7.9	6.7	6.4	5.3	36.4	29.3	1.7	1.3
IL.....	458	513	461	423	392	8.3	9.0	8.1	7.4	6.8	121.0	104.2	2.6	2.2
MI.....	534	433	385	369	348	12.4	9.9	8.8	8.2	7.6	121.5	116.5	3.5	3.2
WI.....	167	171	169	152	110	7.2	7.2	7.0	6.1	4.3	50.8	43.6	2.6	2.2
<b>W. No. Cent.: MN</b> .....	125	133	118	122	94	5.9	6.0	5.3	5.4	4.0	38.3	35.7	2.1	1.9
IA.....	82	113	100	80	67	5.8	8.0	7.0	5.5	4.5	22.0	17.7	2.1	1.7
MO.....	167	159	154	164	148	7.2	6.4	6.1	6.3	5.7	48.3	44.7	2.4	2.1
ND.....	15	20	21	17	16	5.0	5.9	6.3	5.2	4.8	5.9	5.0	2.7	2.2
SD.....	16	18	16	15	14	4.9	5.1	4.7	4.2	3.9	2.8	3.0	1.2	1.3
NE.....	31	44	40	40	29	4.1	5.5	5.0	4.9	3.6	10.8	8.4	1.7	1.3
KS.....	53	62	67	62	61	4.5	5.0	5.4	4.9	4.8	21.9	19.5	2.3	2.0
<b>So. Atl.: DE</b> .....	22	17	14	10	11	7.7	5.3	4.3	3.2	3.2	3.4	4.3	1.1	1.1
MD.....	140	103	105	102	110	6.5	4.6	4.5	4.2	4.5	30.5	27.0	1.7	1.4
DC.....	24	27	25	21	17	7.3	8.4	7.7	6.3	5.0	7.9	7.5	1.9	1.7
VA.....	128	161	145	126	120	5.0	5.6	5.0	4.2	3.9	21.0	22.5	9.9	9.9
NC.....	74	100	89	81	74	9.4	13.0	11.9	10.8	9.9	19.9	16.9	3.6	3.0
WV.....	167	167	170	146	121	6.6	6.4	5.3	4.5	3.6	41.9	38.7	1.5	1.4
SC.....	96	107	100	91	76	6.9	6.8	6.2	5.6	4.5	22.1	20.6	1.7	1.5
GA.....	163	187	178	167	185	6.4	6.5	5.9	5.5	5.8	40.8	36.0	1.6	1.3
FL.....	251	319	320	312	305	5.9	6.0	5.7	5.3	5.0	51.7	51.0	1.1	1.0
<b>E. So. Cent.: KY</b> .....	133	161	156	148	134	8.0	9.5	9.3	8.8	7.9	28.7	27.9	2.4	2.2
TN.....	152	180	185	154	136	7.3	8.0	8.0	6.6	5.8	39.8	39.5	2.1	2.0
AL.....	147	160	185	147	136	8.8	8.9	9.8	7.8	7.2	36.9	31.3	2.7	2.2
MS.....	79	115	136	117	96	7.5	10.3	11.7	10.2	8.4	25.5	21.8	3.2	2.6
<b>W. So. Cent.: AR</b> .....	76	91	94	88	86	7.6	8.7	8.7	8.1	7.7	26.6	25.0	3.4	3.1
LA.....	121	229	261	234	209	6.7	11.5	13.1	12.0	10.9	60.7	42.4	4.3	3.0
OK.....	66	112	131	115	102	4.8	7.1	8.2	7.4	6.7	24.7	19.6	2.4	1.9
TX.....	352	564	726	697	606	5.2	7.0	8.9	8.4	7.9	147.2	111.8	2.4	1.8
<b>MT: MT</b> .....	23	31	33	30	27	6.1	7.7	8.1	7.4	6.8	8.5	7.5	3.4	2.9
ID.....	34	37	41	38	28	7.9	7.9	8.7	8.0	5.8	13.0	11.3	4.1	3.5
WY.....	9	18	22	21	15	4.0	7.1	9.0	8.6	6.3	5.9	3.9	3.4	2.3
CO.....	88	101	126	130	109	5.9	5.9	7.4	7.7	6.4	32.1	26.5	2.4	2.0
NM.....	42	57	62	61	54	7.5	8.8	9.2	8.9	7.8	13.7	11.6	2.9	2.4
AZ.....	83	96	110	101	104	6.7	6.5	6.9	6.2	6.3	25.2	22.9	1.9	1.7
UT.....	40	43	45	48	37	6.3	5.9	6.0	6.4	4.9	12.4	9.5	2.2	1.6
NV.....	27	41	32	35	30	6.2	8.0	6.0	6.3	5.2	10.7	9.4	2.3	1.9
<b>Pac.: WA</b> .....	157	171	179	171	141	7.9	8.1	8.2	7.6	6.2	60.2	60.4	3.6	3.4
OR.....	108	117	114	86	82	8.3	8.8	8.5	6.2	5.8	35.8	31.4	3.5	2.9
CA.....	790	931	892	792	743	6.8	7.2	6.7	5.8	5.3	398.7	319.2	2.9	2.7
AK.....	18	24	26	27	23	9.7	9.7	10.8	10.8	9.3	13.3	10.5	7.0	5.6
HI.....	21	27	24	20	16	4.9	5.6	4.8	3.8	3.2	7.1	6.5	1.7	1.5

<sup>1</sup> Total unemployment as percent of civilian labor force. <sup>2</sup> Source: U.S. Employment and Training Administration, *Unemployment Insurance, Financial Data*, annual updates. <sup>3</sup> Insured unemployment as percent of average covered employment in the previous year. <sup>4</sup> Includes 34,650 persons in Puerto Rico and 409 in the Virgin Islands in 1987 and 32,062 in Puerto Rico and 494 in the Virgin Islands in 1988.

Source: Except as noted, U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment*, annual.

No. 659. U.S. EMPLOYMENT SERVICE JOB OPENINGS AND PLACEMENTS, AND INDEX OF HELP-WANTED ADVERTISING: 1970 TO 1988

[In thousands, except as indicated. Openings and placements 1970-1983, for years ending Sept. 30; beginning 1985, for years ending June 30]

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Job openings: <sup>1</sup> Received.....	6,130	8,122	7,548	6,150	6,494	<sup>2</sup> 5,144	7,529	6,950	6,968	7,204
Average per month.....	511	677	629	513	541	<sup>2</sup> 572	627	579	581	600
Nonagricultural placements <sup>1</sup> .....	4,604	5,610	3,509	2,804	3,012	<sup>2</sup> 2,297	3,270	4,856	4,516	4,503
Index of help-wanted advertising in newspapers <sup>3</sup> (1967=100).....	93	128	118	86	95	130	138	138	153	157

NA Not available. <sup>1</sup> As reported by State employment agencies. Beginning 1985, all placements. <sup>2</sup> Data for nine months from October 1, 1983 through June 30, 1984. <sup>3</sup> Source: The Conference Board, New York, NY, *The Statistical Bulletin*. Further reproduction prohibited without permission. Index based on number of advertisements in classified sections of 51 newspapers, each in a major employment area.

Source: Except as noted, U.S. Employment and Training Administration, unpublished data.

**No. 660. NONAGRICULTURAL ESTABLISHMENTS—EMPLOYEES, HOURS, AND EARNINGS, BY INDUSTRY:  
1960 TO 1988**

[Based on data from establishment reports. Includes all full- and part-time employees who worked during, or received pay for, any part of the pay period reported. Excludes proprietors, the self-employed, farmworkers, unpaid family workers, private household workers, and Armed Forces. Establishment data shown here conform to industry definitions in the 1972 Standard Industrial Classification Manual and are adjusted to March 1988 employment benchmarks; consequently, may not be comparable with previously published data. Based on the Current Employment Statistics Program; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series D 127-141 and D 803, 878, 881, 884, and 890.]

ITEM AND YEAR	Total	NONAGRICULTURAL ESTABLISHMENTS									GROUPED INDUSTRIES	
		Mining	Construction	Manufacturing	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Government	Goods-related <sup>1</sup>	Service-related and all other
<b>EMPLOYEES (1,000)</b>												
1960.....	54,189	712	2,926	16,796	4,004	3,143	8,246	2,629	7,378	8,353	20,434	33,755
1965.....	60,765	832	3,232	18,062	4,036	3,466	9,250	2,977	9,036	10,074	21,926	38,839
1970.....	70,880	923	3,588	19,367	4,515	3,993	11,047	3,645	11,548	12,554	23,578	47,302
1975.....	76,945	752	3,525	18,323	4,542	4,415	12,845	4,165	13,892	14,896	22,800	54,345
1980.....	90,406	1,027	4,346	20,295	5,146	5,275	15,035	5,190	17,890	16,241	25,058	64,748
1982.....	89,566	1,126	3,905	18,761	5,062	5,278	15,179	5,341	18,036	15,837	23,813	65,752
1983.....	90,200	952	3,948	18,434	4,954	5,268	15,813	5,468	19,694	15,870	23,334	66,866
1984.....	94,496	966	4,383	19,378	5,159	5,555	16,545	5,689	20,797	16,024	24,727	69,789
1985.....	97,519	927	4,673	19,260	5,238	5,717	17,356	5,955	22,000	16,394	24,859	72,660
1986.....	99,525	777	4,816	18,965	5,255	5,753	17,930	6,283	23,053	16,693	24,568	74,967
1987.....	102,200	717	4,967	19,024	5,372	5,844	18,463	6,547	24,236	17,010	24,708	77,492
1988.....	105,584	721	5,125	18,403	5,546	6,029	19,110	6,676	25,600	17,372	25,249	80,335
<b>PERCENT DISTRIBUTION</b>												
1960.....	100.0	1.3	5.4	31.0	7.4	6.8	15.2	4.9	13.6	15.4	37.7	62.3
1965.....	100.0	1.0	5.3	29.7	6.7	5.7	15.2	4.9	14.9	16.6	36.1	63.9
1970.....	100.0	.9	5.1	27.3	6.4	5.6	15.6	5.1	16.3	17.7	33.3	66.7
1975.....	100.0	1.0	4.6	23.8	5.9	5.7	16.4	5.4	18.0	19.1	29.4	70.6
1980.....	100.0	1.1	4.8	22.4	5.7	5.8	16.6	5.7	19.8	18.0	28.4	71.6
1982.....	100.0	1.3	4.4	21.0	5.7	5.9	16.9	6.0	21.3	17.7	26.6	73.4
1983.....	100.0	1.1	4.4	20.4	5.5	5.8	17.3	6.1	21.8	17.6	25.9	74.1
1984.....	100.0	1.0	4.6	20.5	5.5	5.9	17.5	6.0	22.0	17.0	26.2	73.8
1985.....	100.0	1.0	4.8	19.1	5.4	5.9	17.8	6.1	22.6	16.8	25.5	74.5
1986.....	100.0	.9	4.8	18.1	5.3	5.8	18.0	6.3	23.2	16.8	24.7	75.3
1987.....	100.0	.7	4.9	18.6	5.3	5.7	18.1	6.4	23.7	16.6	24.2	75.8
1988.....	100.0	.7	4.9	18.4	5.3	5.7	18.1	6.3	24.2	16.5	23.9	76.1
<b>AVERAGE WEEKLY HOURS<sup>2</sup></b>												
1960.....	38.6	40.4	36.7	39.7	(NA)	40.5	38.0	37.2	(NA)	(NA)	(NA)	(NA)
1965.....	36.8	42.3	37.4	41.2	41.3	40.8	36.6	37.2	35.8	(NA)	(NA)	(NA)
1970.....	37.1	42.7	37.3	39.6	40.5	39.9	33.8	36.7	34.4	(NA)	(NA)	(NA)
1975.....	36.1	41.9	36.4	38.5	39.7	38.7	32.4	36.5	33.5	(NA)	(NA)	(NA)
1980.....	35.3	43.3	37.0	39.7	39.6	38.5	30.2	36.2	32.6	(NA)	(NA)	(NA)
1982.....	34.8	42.7	36.7	38.9	39.0	38.3	29.9	36.2	32.6	(NA)	(NA)	(NA)
1983.....	35.0	42.5	37.1	40.1	39.0	38.5	29.8	36.2	32.7	(NA)	(NA)	(NA)
1984.....	35.2	43.3	37.8	40.7	39.4	38.5	29.8	36.5	32.6	(NA)	(NA)	(NA)
1985.....	34.9	43.4	37.7	40.5	39.5	38.4	29.4	36.4	32.5	(NA)	(NA)	(NA)
1986.....	34.8	42.2	37.4	40.7	39.2	38.3	29.2	36.4	32.5	(NA)	(NA)	(NA)
1987.....	34.8	42.4	37.8	41.0	39.2	38.1	29.2	36.3	32.5	(NA)	(NA)	(NA)
1988.....	34.7	42.3	37.9	41.1	39.3	38.1	29.1	35.9	32.6	(NA)	(NA)	(NA)
<b>AVERAGE HOURLY EARNINGS</b>												
1960.....	\$2.09	\$2.60	\$3.07	\$2.26	(NA)	\$2.24	\$1.52	\$2.02	(NA)	(NA)	(NA)	(NA)
1965.....	2.46	2.92	3.70	2.81	\$3.03	2.61	1.82	2.39	\$2.05	(NA)	(NA)	(NA)
1970.....	3.23	3.85	5.24	3.35	3.85	3.44	2.44	3.07	2.81	(NA)	(NA)	(NA)
1975.....	4.53	5.95	7.31	4.83	5.88	4.73	3.36	4.06	4.02	(NA)	(NA)	(NA)
1980.....	6.66	8.17	9.94	7.27	8.87	6.96	4.88	5.79	5.85	(NA)	(NA)	(NA)
1982.....	7.68	10.77	11.63	8.49	10.32	8.09	5.48	6.78	6.92	(NA)	(NA)	(NA)
1983.....	8.02	11.26	11.94	8.83	10.79	8.55	5.74	7.29	7.31	(NA)	(NA)	(NA)
1984.....	9.32	11.63	12.19	9.19	11.12	8.89	5.65	7.63	7.59	(NA)	(NA)	(NA)
1985.....	8.32	11.98	12.32	9.54	11.40	9.16	5.94	7.94	7.90	(NA)	(NA)	(NA)
1986.....	8.76	12.46	12.46	9.73	11.70	9.35	6.03	8.36	8.18	(NA)	(NA)	(NA)
1987.....	8.98	12.54	12.71	9.91	12.03	9.60	6.12	8.73	8.49	(NA)	(NA)	(NA)
1988.....	9.29	12.75	13.01	10.18	12.32	9.94	6.31	9.09	8.91	(NA)	(NA)	(NA)
<b>AVERAGE WEEKLY EARNINGS<sup>2</sup></b>												
1960.....	\$81	\$105	\$113	\$90	(NA)	\$91	\$58	\$75	(NA)	(NA)	(NA)	(NA)
1965.....	95	124	139	106	\$125	106	67	89	\$74	(NA)	(NA)	(NA)
1970.....	120	164	195	133	156	137	82	113	97	(NA)	(NA)	(NA)
1975.....	164	249	266	191	233	183	109	148	135	(NA)	(NA)	(NA)
1980.....	235	397	368	289	351	268	147	210	191	(NA)	(NA)	(NA)
1982.....	267	460	427	330	402	310	164	245	226	(NA)	(NA)	(NA)
1983.....	281	279	443	354	421	329	171	264	239	(NA)	(NA)	(NA)
1984.....	293	504	459	374	438	342	174	279	247	(NA)	(NA)	(NA)
1985.....	299	520	464	386	450	352	175	289	257	(NA)	(NA)	(NA)
1986.....	305	526	487	398	459	358	176	304	266	(NA)	(NA)	(NA)
1987.....	313	532	480	406	472	366	179	317	276	(NA)	(NA)	(NA)
1988.....	322	539	493	418	484	379	184	326	290	(NA)	(NA)	(NA)

NA Not available. <sup>1</sup> Mining, construction, and manufacturing. <sup>2</sup> See headline, table 668.

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

NO. 661. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS—STATES: 1980 TO 1988

[In thousands. For coverage, see headnote, table 660. National totals differ from the sum of the State figures because of differing benchmarks among States and differing industrial and geographic stratification. Based on 1972 *Standard Industrial Classification Manual*, see text, section 13]

DIVISION AND STATE	1980	1985	1986	1987	1988							
					Total <sup>1</sup>	Con- struction	Manu- facturing	Trans- portation and public utilities	Wholesale and retail trade	Fi- nance, insur- ance, and real estate	Ser- vices	Government
<b>U.S.</b> .....	<b>90,406</b>	<b>97,519</b>	<b>99,525</b>	<b>102,200</b>	<b>105,584</b>	<b>5,125</b>	<b>19,403</b>	<b>5,548</b>	<b>25,138</b>	<b>6,676</b>	<b>25,600</b>	<b>17,372</b>
<b>N. Eng.</b> .....	<b>5,481</b>	<b>6,067</b>	<b>6,233</b>	<b>6,418</b>	<b>6,552</b>	<b>332</b>	<b>1,349</b>	<b>272</b>	<b>1,539</b>	<b>476</b>	<b>1,708</b>	<b>871</b>
ME.....	418	458	477	501	521	34	108	21	127	25	114	91
NH.....	385	466	490	513	528	37	119	18	136	32	118	69
VT.....	200	225	234	246	253	17	50	10	80	13	62	41
MA.....	2,652	2,926	2,985	3,062	3,120	143	586	134	733	225	891	405
RI.....	398	429	443	452	456	21	114	16	104	27	116	59
CT.....	1,427	1,562	1,604	1,645	1,674	80	373	73	380	154	406	207
<b>Mid. Atl.</b> .....	<b>15,021</b>	<b>15,895</b>	<b>16,185</b>	<b>16,550</b>	<b>16,867</b>	<b>744</b>	<b>2,930</b>	<b>906</b>	<b>3,747</b>	<b>1,326</b>	<b>4,496</b>	<b>2,680</b>
NY.....	7,207	7,751	7,904	8,054	8,184	340	1,208	410	1,722	798	2,266	1,435
NJ.....	3,060	3,414	3,490	3,582	3,648	173	666	243	874	236	902	552
PA.....	4,753	4,730	4,791	4,915	5,034	231	1,056	252	1,151	293	1,328	694
<b>E. No. Cent.</b> .....	<b>16,728</b>	<b>16,841</b>	<b>17,165</b>	<b>17,641</b>	<b>18,106</b>	<b>703</b>	<b>4,205</b>	<b>889</b>	<b>4,349</b>	<b>1,039</b>	<b>4,121</b>	<b>2,738</b>
OH.....	4,367	4,373	4,471	4,583	4,683	184	1,103	212	1,131	250	1,088	697
IN.....	2,130	2,169	2,222	2,305	2,398	110	633	124	571	119	476	357
IL.....	4,850	4,755	4,791	4,928	5,078	205	972	301	1,253	989	1,225	733
MI.....	3,443	3,562	3,657	3,736	3,798	133	947	155	868	165	853	625
WI.....	1,938	1,983	2,024	2,090	2,149	72	551	97	506	115	480	326
<b>W. No. Cent.</b> .....	<b>6,905</b>	<b>7,153</b>	<b>7,248</b>	<b>7,447</b>	<b>7,656</b>	<b>297</b>	<b>1,373</b>	<b>443</b>	<b>1,927</b>	<b>454</b>	<b>1,776</b>	<b>1,352</b>
MN.....	1,770	1,865	1,893	1,958	2,022	79	394	102	508	119	492	322
IA.....	1,110	1,074	1,074	1,109	1,156	38	227	54	295	66	261	212
MO.....	1,970	2,095	2,143	2,198	2,237	95	429	147	551	136	524	350
ND.....	245	252	250	253	256	10	16	17	68	12	64	65
SD.....	238	249	252	257	264	9	31	14	69	15	65	59
NE.....	628	651	653	667	688	25	95	45	178	48	159	138
KS.....	945	968	965	1,005	1,033	42	181	64	259	58	212	206
<b>So. Atl.</b> .....	<b>14,895</b>	<b>16,789</b>	<b>17,404</b>	<b>18,169</b>	<b>18,861</b>	<b>1,169</b>	<b>3,175</b>	<b>969</b>	<b>4,574</b>	<b>1,090</b>	<b>4,427</b>	<b>3,381</b>
DE.....	259	293	303	321	330	22	70	14	73	29	76	47
MD.....	1,712	1,888	1,952	2,028	2,092	160	533	96	533	130	563	399
DC.....	616	629	640	656	673	13	16	25	65	35	243	276
VA.....	2,157	2,455	2,558	2,680	2,781	195	427	146	634	150	669	544
WV.....	646	597	598	599	611	25	87	37	143	24	131	130
NC.....	2,380	2,651	2,744	2,863	2,968	165	867	147	678	130	522	454
SC.....	1,189	1,296	1,338	1,392	1,448	92	384	62	326	65	256	262
GA.....	2,159	2,570	2,672	2,782	2,879	149	574	182	738	161	571	495
FL.....	3,576	4,410	4,599	4,848	5,080	349	541	260	1,385	365	1,397	774
<b>E. So. Cent.</b> .....	<b>5,143</b>	<b>5,384</b>	<b>5,515</b>	<b>5,712</b>	<b>5,881</b>	<b>270</b>	<b>1,400</b>	<b>305</b>	<b>1,346</b>	<b>272</b>	<b>1,152</b>	<b>1,074</b>
KY.....	1,210	1,250	1,274	1,328	1,370	63	274	73	328	59	282	244
TN.....	1,747	1,868	1,930	2,012	2,066	94	508	109	488	104	430	326
AL.....	1,356	1,427	1,463	1,508	1,550	77	379	79	340	70	284	309
MS.....	829	839	848	864	885	36	239	44	191	39	145	196
<b>W. So. Cent.</b> .....	<b>9,310</b>	<b>10,217</b>	<b>10,021</b>	<b>9,946</b>	<b>10,141</b>	<b>480</b>	<b>1,520</b>	<b>611</b>	<b>2,479</b>	<b>619</b>	<b>2,257</b>	<b>1,885</b>
AR.....	742	797	814	837	860	33	228	52	194	36	162	149
LA.....	1,579	1,581	1,519	1,484	1,502	84	170	107	360	83	327	314
OK.....	1,138	1,165	1,124	1,109	1,133	34	163	62	274	59	248	248
TX.....	5,851	6,663	6,564	6,517	6,647	328	959	390	1,652	439	1,520	1,174
<b>MT.</b> .....	<b>4,502</b>	<b>5,110</b>	<b>5,174</b>	<b>5,256</b>	<b>5,385</b>	<b>278</b>	<b>631</b>	<b>313</b>	<b>1,296</b>	<b>313</b>	<b>1,406</b>	<b>1,054</b>
MT.....	280	279	275	274	279	9	21	19	73	13	67	71
ID.....	330	336	328	333	349	15	58	19	87	19	72	76
WY.....	210	207	196	183	183	10	9	14	41	7	33	50
CO.....	1,251	1,419	1,408	1,413	1,426	59	189	91	351	95	353	266
NM.....	465	520	526	529	540	30	40	29	130	27	128	141
AZ.....	1,014	1,279	1,338	1,366	1,411	94	190	73	348	93	361	240
UT.....	551	624	634	640	660	25	99	40	156	33	156	143
NV.....	400	446	468	500	538	36	25	29	109	25	235	67
<b>Pac.</b> .....	<b>13,076</b>	<b>14,376</b>	<b>14,746</b>	<b>15,300</b>	<b>15,852</b>	<b>774</b>	<b>2,738</b>	<b>804</b>	<b>3,805</b>	<b>1,042</b>	<b>3,955</b>	<b>2,678</b>
WA.....	1,608	1,710	1,770	1,852	1,936	96	338	102	475	110	444	367
OR.....	1,045	1,030	1,059	1,100	1,152	39	214	61	291	74	261	212
CA.....	9,849	10,979	11,258	11,679	12,075	607	2,148	586	2,869	813	3,075	1,935
AK.....	169	231	221	210	212	9	15	17	42	11	43	67
HI.....	405	426	439	460	477	23	22	38	128	35	132	99

<sup>1</sup> Includes mining, not shown separately.

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

**NO. 662. NONAGRICULTURAL INDUSTRIES—NUMBER OF EMPLOYEES, AND NUMBER AND EARNINGS OF PRODUCTION WORKERS: 1980 TO 1988**

[Annual averages of monthly figures. Covers all full- and part-time employees who worked during, or received pay for, any part of the pay period including the 12th of the month. For mining and manufacturing, data refer to production and related workers; for construction, to employees engaged in actual construction work; and for other industries, to nonsupervisory employees and working supervisors. See also headline, table 660. See *Historical Statistics, Colonial Times to 1970*, series D 127-151, D 802-810, and D 877-892, for related data.]

SIC <sup>1</sup> code	INDUSTRY	ALL EMPLOYEES, TOTAL (1,000)			PRODUCTION WORKERS					
		1980	1985	1988	Total (1,000)			Average hourly earnings (dollars)		
					1980	1985	1988	1980	1985	1988
(x)	<b>Total</b> .....	<b>90,406</b>	<b>97,519</b>	<b>105,584</b>	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(x)	<b>Private sector</b> <sup>2</sup> .....	<b>74,166</b>	<b>81,125</b>	<b>88,212</b>	<b>60,331</b>	<b>65,586</b>	<b>71,413</b>	<b>6.66</b>	<b>8.57</b>	<b>9.29</b>
(B)	<b>Mining</b> .....	<b>1,027</b>	<b>927</b>	<b>721</b>	<b>762</b>	<b>658</b>	<b>519</b>	<b>9.17</b>	<b>11.98</b>	<b>12.75</b>
10	Metal mining.....	98	46	51	74	34	40	10.26	13.38	13.27
11, 12	Coal mining.....	246	187	151	204	153	123	10.86	15.24	15.94
13	Oil and gas extraction.....	560	583	406	389	387	269	8.59	11.06	11.82
14	Nonmetallic minerals, except fuels.....	123	110	113	96	84	86	7.52	10.18	10.95
(C)	<b>Construction</b> .....	<b>4,348</b>	<b>4,873</b>	<b>5,125</b>	<b>3,421</b>	<b>3,659</b>	<b>4,002</b>	<b>9.94</b>	<b>12.32</b>	<b>13.01</b>
15	General building contractors.....	1,173	1,253	1,368	900	935	1,001	9.22	11.23	12.19
16	Heavy construction contractors.....	927	793	769	748	652	643	9.20	12.08	12.42
17	Special trade contractors.....	2,246	2,828	2,988	1,776	2,072	2,358	10.65	12.90	13.55
(D)	<b>Manufacturing</b> .....	<b>20,285</b>	<b>19,260</b>	<b>19,403</b>	<b>14,214</b>	<b>13,092</b>	<b>13,254</b>	<b>7.27</b>	<b>9.54</b>	<b>10.18</b>
(X)	<b>Durable goods</b> .....	<b>12,187</b>	<b>11,490</b>	<b>11,437</b>	<b>8,442</b>	<b>7,644</b>	<b>7,635</b>	<b>7.75</b>	<b>10.10</b>	<b>10.71</b>
24	Lumber and wood products, except furniture <sup>3</sup> .....	691	697	765	578	584	637	6.55	8.22	8.61
241	Logging camps and logging contractors.....	88	84	90	71	67	75	8.64	10.92	10.84
242	Sawmills and planing mills.....	215	195	207	190	172	182	6.70	8.52	8.76
243	Millwork, plywood, and structural members.....	200	228	269	164	190	221	6.41	8.06	8.60
244	Wood containers.....	43	41	43	37	35	37	4.95	5.81	6.37
2451	Mobile homes.....	46	51	46	36	41	37	6.08	7.34	8.17
25	Furniture and fixtures <sup>4</sup> .....	466	494	530	376	394	423	5.49	7.17	7.94
251	Household furniture.....	301	295	310	253	247	262	5.12	6.56	7.31
252	Office furniture.....	50	66	71	40	50	53	5.91	8.06	8.96
254	Partitions and fixtures.....	63	69	79	47	51	57	6.68	8.89	9.43
32	Stone, clay, and glass products <sup>5</sup> .....	662	588	600	513	451	466	7.50	9.84	10.47
321	Flat glass.....	18	16	16	14	12	12	9.65	13.79	15.03
322	Glass and glassware, pressed <sup>6</sup> .....	124	91	86	105	77	74	7.97	10.78	11.69
324	Cement, hydraulic.....	31	23	20	25	18	15	10.55	13.27	13.33
325	Structural clay products.....	46	38	39	34	29	30	6.14	8.01	8.89
326	Pottery and related products.....	46	37	38	38	29	30	6.26	8.67	9.25
327	Concrete, gypsum, and plaster products.....	204	206	215	157	160	166	7.45	9.60	10.22
33	Primary metal industries <sup>4</sup> .....	1,142	808	774	878	612	592	9.77	11.67	12.15
331	Blast furnaces and basic steel products.....	512	303	277	396	232	215	11.39	13.33	13.97
332	Iron and steel foundries.....	209	141	138	167	112	111	8.20	10.51	10.96
333	Primary nonferrous metals.....	71	45	44	53	33	33	10.63	13.74	13.29
335	Nonferrous rolling and drawing.....	211	188	180	151	133	130	8.81	11.05	11.63
336	Nonferrous foundries.....	90	87	88	72	70	71	7.30	9.32	9.61
34	Fabricated metal products <sup>4</sup> .....	1,613	1,465	1,431	1,195	1,084	1,067	7.45	9.70	10.26
341	Metal cans and shipping containers.....	75	58	53	63	50	45	9.84	13.10	13.49
342	Cutlery, hand tools, and hardware.....	164	142	140	125	105	103	7.02	8.71	10.14
343	Plumbing and heating, exc. electric.....	70	63	60	50	45	44	6.62	8.67	9.34
344	Fabricated structural metal products.....	513	443	429	355	309	307	7.26	9.00	9.61
345	Screw machine products, bolts, etc.....	109	96	100	84	74	76	6.96	9.11	10.05
346	Metal forgings and stampings.....	264	249	229	207	200	183	8.56	11.82	12.30
35	Machinery, except electrical <sup>4</sup> .....	2,494	2,174	2,082	1,602	1,307	1,252	8.00	10.29	11.01
351	Engines and turbines.....	135	105	94	87	66	62	9.73	13.02	13.69
352	Farm and garden machinery.....	169	98	104	116	66	74	8.78	9.93	10.19
353	Construction and related machinery.....	389	253	227	255	156	139	8.60	10.91	11.08
354	Metalworking machinery.....	373	310	314	273	222	225	8.18	10.59	11.15
355	Special industry machinery.....	207	168	171	133	100	102	7.51	10.18	11.08
356	General industrial machinery.....	323	268	249	212	171	161	7.98	10.06	10.61
357	Office and computing machines.....	452	514	474	186	189	156	6.74	9.32	10.71
358	Refrigeration and service machinery.....	174	172	185	120	120	133	7.23	10.09	10.60
36	Electric and electronic equipment <sup>4</sup> .....	2,091	2,197	2,070	1,328	1,300	1,224	6.94	9.46	10.13
361	Electric distributing equipment.....	123	113	107	86	81	76	6.96	8.93	9.39
362	Electrical industrial apparatus.....	240	196	184	169	138	128	7.16	8.52	9.02
363	Household appliances.....	163	156	151	129	106	112	6.95	9.23	10.09
364	Electric lighting and wiring equipment.....	209	198	198	156	144	144	6.42	8.67	9.52
365	Radio and TV receiving equipment.....	109	84	85	79	57	59	6.42	9.33	9.45
366	Communication equipment.....	541	653	567	267	291	237	7.93	11.25	12.10
367	Electronic components and access.....	554	663	635	334	375	358	6.05	8.30	9.20
37	Transportation equipment <sup>4</sup> .....	1,900	1,980	2,051	1,233	1,257	1,281	9.35	12.71	13.31
371	Motor vehicles and equipment.....	884	894	857	575	685	667	9.85	13.39	14.00
372	Aircraft and parts.....	662	636	695	355	304	339	9.28	12.62	13.62
373	Ship and boat building and repairs.....	221	187	193	176	140	145	8.22	10.51	10.29
374	Railroad equipment.....	71	33	32	53	23	24	9.93	12.53	12.17

See footnotes at end of table.

# Nonagricultural Employment

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## No. 662. NONAGRICULTURAL INDUSTRIES—NUMBER OF EMPLOYEES, AND NUMBER AND EARNINGS OF PRODUCTION WORKERS: 1980 TO 1988—Continued

[See headnote, p. 402]

SIC <sup>1</sup> code	INDUSTRY	ALL EMPLOYEES, TOTAL (1,000)			PRODUCTION WORKERS					
					Total (1,000)			Average hourly earnings (dollars)		
		1980	1985	1988	1980	1985	1988	1980	1985	1988
38	Instruments and related products.....	711	720	749	426	391	412	6.80	9.17	9.98
381	Engineering and scientific instruments...	77	84	95	37	37	43	7.12	9.82	11.15
382	Measuring and controlling devices.....	245	254	260	154	141	149	6.85	8.94	9.72
383	Optical instruments and lenses.....	33	34	30	18	17	15	7.32	10.17	10.79
384	Medical instruments and supplies.....	156	174	201	101	104	122	5.80	8.15	8.85
385	Ophthalmic goods.....	44	40	39	31	26	27	5.30	6.94	7.55
386	Photographic equipment and supplies...	135	123	112	67	57	49	8.83	12.05	13.60
387	Watches, clocks, and watchcases.....	22	12	12	17	9	9	5.24	6.87	7.30
39	Misc. manufacturing industries <sup>4</sup> .....	418	367	386	313	264	281	5.46	7.30	8.01
391	Jewelry, silverware, plated ware.....	56	55	54	40	37	38	5.76	7.78	8.61
394	Toys and sporting goods.....	117	95	104	88	70	77	5.01	6.65	7.78
395	Pens, pencils, office and art supplies...	37	33	34	27	22	24	5.58	7.70	7.85
396	Costume jewelry and notions.....	51	41	41	41	31	31	4.71	5.91	6.72
(x)	<b>Nonurable goods.....</b>	<b>8,088</b>	<b>7,770</b>	<b>7,967</b>	<b>5,772</b>	<b>5,449</b>	<b>5,619</b>	<b>6.55</b>	<b>8.71</b>	<b>9.43</b>
20	Food and kindred products <sup>4</sup> .....	1,708	1,603	1,636	1,175	1,118	1,163	6.85	8.57	9.10
201	Meat products.....	358	362	402	298	305	340	6.99	7.23	7.59
202	Dairy products.....	175	163	159	96	96	96	6.86	9.17	9.84
203	Preserved fruits and vegetables.....	256	236	249	210	194	204	5.94	7.81	8.40
204	Grain mill products.....	144	125	125	99	85	87	7.67	10.38	11.18
205	Bakery products.....	225	210	203	131	126	124	7.21	9.69	10.25
206	Sugar and confectionery products.....	106	96	98	79	75	77	6.57	8.63	9.46
207	Fats and oils.....	44	35	32	32	26	24	7.03	8.80	9.40
208	Beverages.....	234	214	202	105	92	87	8.12	11.38	12.22
21	Tobacco manufactures.....	69	64	56	54	48	42	7.74	11.96	14.68
211	Cigarettes.....	46	44	41	35	32	31	9.23	14.71	17.48
22	Textile mill products <sup>4</sup> .....	948	702	729	737	607	632	5.07	6.70	7.37
221	Weaving mills, cotton.....	150	106	100	135	95	91	5.25	7.01	7.68
222	Weaving mills, synthetic.....	116	90	89	104	80	79	5.30	7.15	7.95
223	Weaving and finishing mills, wool.....	19	17	19	16	15	15	5.21	7.07	7.89
224	Narrow fabric mills.....	23	22	24	20	19	21	4.63	6.39	6.82
225	Knitting mills.....	220	198	211	191	172	187	4.76	6.15	6.67
226	Textile finishing, except wool.....	74	59	61	62	49	50	5.39	7.12	7.79
227	Floor covering mills.....	54	54	60	44	44	49	5.20	6.92	7.70
228	Yarn and thread mills.....	125	101	108	113	90	97	4.76	6.26	7.07
23	Apparel and other textile products <sup>4</sup> .....	1,264	1,121	1,092	1,079	945	919	4.56	5.73	6.12
231	Men's and boys' suits and coats.....	77	63	58	67	55	50	5.34	6.65	6.85
232	Men's and boys' furnishings.....	362	312	301	310	270	260	4.23	5.27	5.60
233	Women's and misses outerwear.....	417	362	343	360	302	286	4.61	5.56	5.88
234	Undergarments <sup>6</sup> .....	90	77	71	76	65	59	4.15	5.29	5.69
236	Children's outerwear.....	64	61	59	55	51	49	4.20	5.07	5.47
238	Misc. apparel, accessories.....	56	44	43	48	36	35	4.48	5.50	5.96
26	Paper and allied products.....	693	678	693	523	512	524	7.84	10.83	11.65
261, 2, 6	Paper and pulp mills.....	203	197	194	152	149	148	9.15	13.14	14.31
263	Paperboard mills.....	65	55	53	51	42	40	9.28	13.60	14.49
264	Misc. converted paper products.....	220	229	239	163	168	175	6.89	9.33	10.10
265	Paperboard containers and boxes.....	205	197	207	157	152	161	6.94	9.24	9.99
27	Printing and publishing <sup>4</sup> .....	1,252	1,428	1,561	699	789	874	7.53	9.71	10.52
271	Newspapers.....	420	451	475	164	169	171	7.72	9.77	10.49
272	Periodicals.....	90	113	130	16	29	47	7.16	10.20	10.99
273	Books.....	101	107	116	52	54	62	6.76	8.70	9.48
275	Commercial printing.....	414	493	554	307	359	404	7.85	10.05	10.78
278	Blankbooks and bookbinding.....	62	70	77	51	57	61	5.78	7.63	8.39
28	Chemicals and allied products <sup>4</sup> .....	1,107	1,044	1,065	626	578	586	8.30	11.56	12.67
281	Industrial inorganic chemicals.....	161	142	133	87	72	67	9.07	12.80	13.87
282	Plastics materials and synthetics.....	205	172	178	137	114	116	8.21	11.71	13.04
283	Drugs.....	196	206	231	97	95	102	7.69	10.75	12.07
284	Soap, cleaners, and toilet goods.....	141	148	160	86	94	103	7.67	10.28	11.05
285	Paints and allied products.....	65	64	64	33	31	31	7.39	10.08	11.24
287	Agricultural chemicals.....	72	59	52	45	37	33	8.12	11.03	12.34
29	Petroleum and coal products <sup>4</sup> .....	198	179	162	125	109	105	10.10	14.06	14.98
291	Petroleum refining.....	155	141	122	93	82	78	10.94	15.25	16.20
295	Paving and roofing materials.....	31	26	27	24	20	21	7.69	10.56	11.57
30	Rubber and misc. plastic products.....	727	786	829	559	607	646	6.52	8.54	9.14
301	Tires and inner tubes.....	115	94	84	81	65	61	9.74	13.21	14.37
31	Leather and leather products <sup>4</sup> .....	233	165	144	187	137	119	4.58	5.83	6.27
311	Leather tanning and finishing.....	19	15	14	16	12	11	6.10	7.62	8.43
314	Footwear except rubber.....	144	99	84	123	84	71	4.42	5.53	5.98
317	Handbags, personal leather goods.....	30	21	17	25	17	13	4.33	5.61	5.92

See footnotes at end of table.

No. 662. NONAGRICULTURAL INDUSTRIES—NUMBER OF EMPLOYEES, AND NUMBER AND EARNINGS OF PRODUCTION WORKERS: 1980 TO 1988—Continued

[See headnote, p. 402]

SIC 1 code	INDUSTRY	ALL EMPLOYEES, TOTAL			PRODUCTION WORKERS					
		(1,000)			Total (1,000)			Average hourly earnings (dollars)		
		1980	1985	1988	1980	1985	1988	1980	1985	1988
(E)	<b>Transp. and public utilities <sup>1</sup></b> .....	<b>5,146</b>	<b>5,238</b>	<b>5,548</b>	<b>4,293</b>	<b>4,339</b>	<b>4,610</b>	<b>8.87</b>	<b>11.40</b>	<b>12.32</b>
4010	Railroad transportation.....	532	359	299	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
41	Class I railroads <sup>3</sup> .....	482	323	259	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	<sup>4</sup> 9.92	<sup>5</sup> 13.64	<sup>6</sup> 15.00
41	Local and interurban passenger transit.....	265	278	313	244	257	287	6.34	7.88	8.49
42	Trucking and warehousing.....	1,280	1,363	1,569	1,121	1,187	1,367	9.13	10.52	10.98
45	Air transportation.....	453	552	644	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
46	Pipelines, except natural gas.....	21	19	19	15	13	13	10.50	15.26	15.75
47	Transportation services.....	198	276	316	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
48	Communication <sup>1</sup> .....	1,357	1,320	1,281	1,014	1,006	968	8.50	11.75	12.76
481	Telephone communication.....	1,072	921	898	779	687	660	8.72	12.45	13.45
483	Radio and television broadcasting.....	200	238	239	160	194	197	7.44	10.26	11.45
49	Electric, gas, and sanitary services <sup>4</sup> .....	827	915	933	677	729	738	8.90	12.83	14.26
491	Electric services.....	391	448	453	316	349	346	9.12	12.94	14.38
492	Gas production and distribution.....	168	175	165	138	137	130	8.27	11.76	13.32
493	Combination utility services.....	197	203	195	162	166	160	9.64	14.93	16.87
495	Sanitary services.....	49	64	92	43	56	79	7.04	9.47	10.95
(F)	<b>Wholesale trade.....</b>	<b>5,275</b>	<b>5,717</b>	<b>6,028</b>	<b>4,312</b>	<b>4,598</b>	<b>4,854</b>	<b>6.96</b>	<b>9.16</b>	<b>9.94</b>
(G)	<b>Retail trade <sup>1</sup></b> .....	<b>15,035</b>	<b>17,356</b>	<b>19,110</b>	<b>13,500</b>	<b>15,457</b>	<b>16,936</b>	<b>4.88</b>	<b>5.94</b>	<b>6.31</b>
53	General merchandise stores.....	2,245	2,324	2,461	2,090	2,174	2,281	4.77	5.82	6.54
54	Food stores.....	2,984	2,775	3,098	2,202	2,567	2,851	6.24	7.35	7.00
56	Apparel and accessory stores.....	957	1,041	1,168	820	875	989	4.30	5.25	5.77
57	Furniture and home furnishings stores.....	606	735	802	502	608	658	5.53	7.13	7.84
58	Eating and drinking places.....	4,626	5,709	6,282	4,256	5,194	5,718	3.69	4.33	4.57
(H)	<b>Finance, insurance, real estate.....</b>	<b>5,160</b>	<b>5,955</b>	<b>6,676</b>	<b>3,907</b>	<b>4,415</b>	<b>4,849</b>	<b>5.79</b>	<b>7.94</b>	<b>9.09</b>
60	Banking.....	1,571	1,706	1,798	1,210	1,251	1,241	4.94	6.84	7.86
61	Credit agencies other than banks.....	57	750	898	431	570	658	5.12	7.21	8.26
62	Securities, commodities brokers, services.....	227	355	449	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
63	Insurance carriers.....	1,224	1,292	1,442	854	883	966	6.29	8.61	10.16
64	Insurance agents, brokers, services.....	452	542	640	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
65	Real estate.....	981	1,132	1,295	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
66, 67	Other finance, insurance, real estate.....	135	180	216	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
(I)	<b>Services <sup>1</sup></b> .....	<b>17,890</b>	<b>22,000</b>	<b>25,600</b>	<b>15,921</b>	<b>19,368</b>	<b>22,389</b>	<b>5.85</b>	<b>7.90</b>	<b>8.91</b>
70	Hotels and other lodging places.....	1,076	1,336	1,550	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
701	Hotels, motels, and tourist courts.....	1,038	1,290	1,504	954	1,158	1,341	4.45	5.83	6.41
72	Personal services <sup>1</sup> .....	301	1,056	1,175	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
721	Laundry, cleaning, garment services.....	356	379	411	318	338	366	4.47	5.79	6.34
723	Beauty shops.....	284	334	364	264	302	325	4.26	6.09	6.74
73	Business services <sup>4</sup> .....	3,092	4,457	5,571	2,698	3,863	4,777	6.02	8.19	9.12
731	Advertising.....	153	196	237	116	145	176	8.07	10.74	12.38
736	Personnel supply services <sup>4</sup> .....	563	916	1,369	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
7361	Employment agencies.....	( <sup>2</sup> )	160	222	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
7362	Temporary help supply services.....	( <sup>2</sup> )	708	1,043	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
737	Computer, data process, services <sup>4</sup> .....	304	542	678	254	447	528	7.16	10.98	13.11
7372	Computer programming and software.....	( <sup>2</sup> )	195	308	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
7374	Data processing services.....	( <sup>2</sup> )	258	256	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
75	Auto repair, services, garages.....	571	731	837	488	614	694	6.10	7.41	8.13
753	Automobile repair shops.....	350	446	486	297	372	401	6.52	7.99	8.87
78	Motion pictures.....	217	225	241	191	190	202	7.88	12.12	11.61
783	Motion picture theaters.....	124	108	108	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
79	Amusement, recreation services.....	764	840	918	692	740	788	5.52	6.94	7.41
80	Health services <sup>1</sup> .....	5,278	6,299	7,144	4,712	5,607	6,349	5.88	8.06	9.23
805	Nursing, personal care facilities.....	997	1,199	1,319	898	1,085	1,191	4.17	5.61	6.35
806	Hospitals.....	2,750	2,997	3,300	2,522	2,732	3,015	6.06	9.00	10.51
808	Outpatient care facilities.....	<sup>10</sup> 160	216	266	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
81	Legal services.....	498	694	852	427	589	712	7.35	10.52	12.71
82	Educational services.....	1,138	1,362	1,557	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
83	Social services.....	1,134	1,354	1,611	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
86	Membership organizations.....	1,539	1,520	1,731	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
(J)	<b>Government.....</b>	<b>16,241</b>	<b>16,394</b>	<b>17,372</b>	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(X)	Federal government.....	2,866	2,875	2,971	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(X)	State government.....	3,610	3,832	4,063	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
(X)	Local government.....	9,765	9,687	10,339	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. X Not applicable. <sup>1</sup> Standard Industrial Classification, see text, section 13. <sup>2</sup> Excludes government. <sup>3</sup> 11-month average. <sup>4</sup> Includes industries not shown separately. <sup>5</sup> Includes blown. <sup>6</sup> Women's and children's. <sup>7</sup> Included in totals; not available separately. <sup>8</sup> For changes in "Class I" classification, see text, section 21. <sup>9</sup> Includes all employees except executives, officials, and staff assistants who received pay during the month. <sup>10</sup> 1982 data.

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

Indexes of Output per Hour

NO. 663. INDEXES OF OUTPUT PER HOUR FOR ALL EMPLOYEES—SELECTED INDUSTRIES: 1975 TO 1987

[See text, section 13. Minus sign (—) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series W 14, 17, and 19, W 30-54, and W 62-65]

SIC <sup>1</sup> code	INDUSTRY	INDEXES (1977 = 100)								AVERAGE ANNUAL PERCENT CHANGE <sup>2</sup>			
		1975	1980	1982	1983	1984	1985	1986	1987, prel.	1975-1987	1982-1987		
(B)	<b>Mining:</b>												
1011	Iron (usable ore).....	117.8	123.2	98.2	138.6	171.7	187.9	197.8	262.0	6.3	18.9		
1021	Copper (recoverable metal).....	77.2	91.6	116.2	130.9	155.4	193.1	228.9	209.8	8.8	14.9		
111, 12	Coal.....	105.3	112.5	119.2	136.1	151.3	154.0	167.3	179.7	5.1	8.0		
14	Nonmetallic minerals <sup>3</sup> .....	90.6	96.5	89.3	98.2	105.5	108.2	107.9	107.9	1.0	3.7		
(D)	<b>Manufacturing:</b>												
2011, 2013	Red meat products.....	84.4	107.0	112.3	115.9	117.0	119.5	117.3	114.0	2.5	.4		
2026	Fluid milk.....	95.5	123.9	135.3	142.4	147.7	152.3	157.0	164.2	4.9	3.8		
203	Preserved fruits, vegetables.....	93.7	100.8	107.9	110.4	112.4	111.7	118.3	(NA)	+1.7	+2.0		
204	Grain mill products.....	87.1	105.3	121.0	125.5	132.8	144.9	146.6	(NA)	+4.9	+5.4		
205	Bakery products.....	93.4	93.7	103.3	106.9	106.8	108.5	114.4	(NA)	+1.7	+2.2		
2086	Bottled, canned soft drinks.....	89.5	106.9	114.1	121.5	131.0	136.7	146.6	157.3	4.4	6.5		
2111, 21, 31	Tobacco products.....	93.9	102.1	100.7	105.1	110.3	113.4	117.2	119.2	1.7	3.5		
2211, 21	Cotton, synthetic broad woven fabric.....	86.7	104.9	112.5	121.8	119.9	123.7	132.9	139.7	3.8	3.4		
2251, 52	Hosiery.....	94.3	107.4	114.2	118.0	119.9	118.5	121.0	121.2	2.0	1.0		
2281	Nonwool yarn mills.....	91.2	99.7	118.2	128.5	129.6	134.5	141.1	142.8	3.7	3.7		
2421	Sawmills, planing mills.....	98.2	104.2	115.1	126.8	132.3	139.2	155.1	151.6	4.0	6.0		
2431	Millwork.....	100.2	93.6	86.1	93.8	89.7	85.7	90.1	(NA)	+1.3	+1.7		
2435, 36	Veneer and plywood.....	97.8	102.8	114.4	121.1	120.0	125.1	126.6	(NA)	+2.8	+2.4		
251	Household furniture.....	97.5	99.9	104.7	110.1	112.1	112.5	118.5	115.9	1.5	2.1		
2611, 21, 31, 61	Paper, paperboard, pulp mills.....	86.7	105.2	111.3	119.5	121.0	123.1	133.5	141.8	3.5	4.6		
2653	Corrugated, solid fiber boxes.....	96.2	111.0	111.9	114.0	118.9	125.2	126.7	128.9	2.4	3.1		
281	Industrial inorganic chemicals.....	86.5	94.3	86.3	94.0	104.5	101.4	105.4	(NA)	+7	+4.9		
2823, 24	Synthetic fibers.....	84.5	115.7	103.6	126.2	125.3	135.8	146.2	155.7	4.5	7.6		
2834	Pharmaceuticals.....	92.5	106.0	107.0	114.3	116.4	118.1	121.8	124.0	2.3	2.7		
2844	Cosmetics.....	94.0	83.6	84.0	86.2	85.2	87.3	94.3	(NA)	+1.0	+2.5		
2851	Paints, allied products.....	94.2	100.8	106.5	113.8	121.5	125.6	125.2	128.5	2.6	3.7		
2869	Industrial organic chemicals, n.e.c.....	85.3	98.9	87.2	103.3	113.9	112.5	119.5	(NA)	+2.0	+7.2		
2911	Petroleum refining.....	88.7	84.2	79.4	81.6	92.5	102.6	113.8	119.6	1.2	9.3		
3011	Tires, inner tubes.....	91.8	102.4	128.2	136.1	146.8	146.7	151.4	167.8	5.0	4.9		
3079	Miscellaneous plastics.....	86.2	95.7	110.1	107.2	110.5	113.0	114.1	(NA)	+2.4	+1.2		
314	Footwear.....	101.3	99.1	106.4	103.9	105.7	107.3	109.5	104.5	.6	.2		
3271, 72	Concrete products.....	91.8	90.4	91.0	97.6	99.2	100.5	105.9	(NA)	+7	+3.4		
331	Steel.....	93.3	102.9	90.9	116.8	131.3	139.5	141.8	151.7	3.7	9.6		
3321	Gray iron foundries.....	97.0	90.8	93.7	98.3	106.8	104.2	107.4	104.8	.8	2.3		
3353, 54, 55	Aluminum rolling, drawing.....	87.5	100.0	99.2	110.4	116.2	115.9	125.0	141.6	2.8	6.3		
3433	Heating equip., except electric.....	80.4	89.7	102.3	93.2	102.0	110.6	105.0	(NA)	+1.6	+1.4		
3441	Fabricated structural metal.....	97.4	102.1	99.5	103.0	107.9	117.7	117.7	(NA)	+1.5	+4.8		
3465, 6, 9	Metal stampings.....	93.2	99.9	96.1	104.7	110.4	104.7	108.7	(NA)	+1.1	+2.1		
3519	Internal combustion engines.....	86.2	94.3	92.0	85.9	93.8	102	108.5	(NA)	+7	+7.6		
352	Farm, garden machinery.....	97.7	93.3	94.9	95.5	105.2	101.5	103.0	(NA)	+2	+2.3		
3531	Construction machinery, equipment.....	93.9	97.4	88.9	88.2	102.6	104.1	107.1	99.3	.3	3.3		
3541, 42	Machine tools.....	103.0	98.8	88.0	83.0	93.6	96.7	98.5	101.9	.5	3.7		
3561, 63	Pumps and compressors.....	91.4	100.2	95.9	100.2	106.1	106.8	108.7	(NA)	+1.0	+3.2		
3585	Refrigeration, heating equipment.....	89.9	93.8	100.1	100.9	105.5	103.7	101.5	(NA)	+9	+6		
3621	Motors, generators.....	93.0	96.7	102.4	104.3	107.9	110.5	112.3	115.9	1.6	2.5		
3631, 2, 3, 9	Major household appliances.....	93.6	105.8	108.6	117.6	123.6	127.2	134.1	139.2	3.2	4.9		
3651	Radio and TV sets.....	90.1	116.9	163.9	196	236.9	249.8	278.1	300.5	11.3	12.5		
3674	Semiconductors.....	56.0	149.4	197.9	211.5	229.2	206.1	210.5	260.1	11.5	3.6		
371	Motor vehicles, equipment.....	87.7	80.8	96.9	109.6	115.7	121.2	121.7	125.2	2.8	4.8		
3825	Instruments to measure electricity.....	95.9	108.4	119.2	121.6	133.7	130.4	122.2	(NA)	+3.2	+1.2		
(E, G, H, I)	<b>Transportation, utilities, trade:</b>												
Pts of 4111, 31	RR transport (revenue traffic) <sup>5</sup> .....	89.5	107.3	115.8	141.9	152.6	162.1	178.6	208.3	6.8	11.1		
414	Bus carriers <sup>6</sup> .....	97.0	100.9	98.8	95.4	90.9	87.4	86.8	(NA)	+1.9	+3.4		
4213 pt.	Intercity trucking <sup>7</sup> .....	89.2	107.7	108.0	130.7	135.1	130.2	134.5	(NA)	+3.4	+4.4		
4511	Air transportation <sup>7</sup> .....	87.6	106.2	114.9	126.8	131.7	136.5	138.2	146.4	3.9	4.4		
4612, 13	Petroleum pipelines.....	95.7	93.0	89.2	94.3	104.5	104.9	107.0	106.6	.7	3.7		
4811	Telephone communications.....	85.9	118.1	129.1	145.1	143.0	149.8	161.3	166.1	5.6	4.7		
491, 92, 93	Gas and electric utilities.....	95.7	96.2	89.3	88.1	91.4	90.5	89.1	92.7	-.9	.6		
5251	Hardware stores <sup>8</sup> .....	97.8	111.6	109.2	111.4	121.1	124.6	137.4	149.5	3.2	6.6		
5311	Department stores.....	89.7	103.8	112.4	119.5	126.6	129.2	135.3	137.2	3.5	4.1		
5331	Variety stores <sup>8</sup> .....	122.9	107.3	112.5	119.7	123.7	114.3	101.2	(NA)	4	+2.5		
54	Retail food stores <sup>8</sup> .....	98.8	100.3	95.5	95.5	96.1	96.6	94.6	92.8	.5	-.5		
5511	Franchised new car dealers.....	95.3	99.6	100.4	109.4	110.4	109.7	110.7	105.3	1.2	.8		
5541	Gasoline service stations <sup>9</sup> .....	85.3	105.1	111.8	127.5	129.1	134.3	143.9	145.7	4.2	5.4		
56	Apparel, accessory stores <sup>8</sup> .....	105.0	117.9	126.4	122.9	147.0	146.5	153.7	146.4	3.7	3.5		
57	Furniture, furnishings, equip. stores <sup>8</sup> .....	91.9	107.4	109.2	118.4	129.4	133.5	144.6	145.2	3.9	6.0		
58	Eating, drinking places <sup>8</sup> .....	100.8	99.8	96.9	95.3	91.1	87.9	89.7	90.4	-1.2	-1.6		
5912	Drug, proprietary stores <sup>8</sup> .....	94.2	107.0	107.9	111.4	108.2	106.5	105.6	105.9	.9	-.7		
592	Liquor stores <sup>8</sup> .....	96.3	102.2	108.1	101.6	98.7	107.1	98.0	91.6	-.1	-2.4		
602	Commercial banking.....	90.0	92.7	93.2	101.3	104.3	109.7	111.7	(NA)	+1.3	+4.5		
7011	Hotels, motels, tourist courts <sup>8</sup> .....	89.7	95.0	88.8	95.4	102.1	97.5	92.8	88.0	-.3	-.5		
721	Laundry, cleaning services <sup>8</sup> .....	98.6	91.3	90.6	90.4	92.3	87.3	85.0	84.0	-1.4	-1.8		
723, 724	Beauty and barber shops.....	98.7	102.9	108.3	114.0	103.9	98.6	97.3	99.2	-.1	-2.7		
753	Automotive repair shops <sup>8</sup> .....	102.0	95.9	87.4	86.1	88.3	96.1	93.2	(NA)	-1.0	2.6		

NA Not available. <sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> For explanation of average annual percent change, see source. <sup>3</sup> Excludes fuel. <sup>4</sup> Change from 1975 to 1981 and 1982 to 1986. <sup>5</sup> Class 1 line-haul railroads and switching and terminal companies. <sup>6</sup> Class 1 interstate carriers regulated by the ICC. <sup>7</sup> Refers to output per employee. <sup>8</sup> Data relate to all persons (paid employees, unpaid family workers, and the self-employed).

Source: U.S. Bureau of Labor Statistics, Bulletin 2322, *Productivity Measures for Selected Industries and Government Services*, February 1989; and unpublished data.



NO. 664. INDEXES OF PRODUCTIVITY AND RELATED MEASURES: 1960 TO 1988

[See text, section 13. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series D 689-704 and W 22-25]

ITEM	1960	1970	1975	1980	1983	1984	1985	1986	1987	1988
INDEXES (1977 = 100)										
Output, per hour, business sector	66.1	87.6	95.4	99.4	102.6	105.2	107.3	109.8	111.1	113.1
Nonfarm business	69.5	88.4	95.7	99.0	102.0	104.2	105.6	107.7	108.9	111.2
Manufacturing	60.7	80.2	92.6	101.7	112.2	118.2	123.5	128.2	132.9	137.7
Output, <sup>1</sup> business sector	55.4	80.3	89.4	106.7	109.9	119.2	124.2	128.0	133.4	140.0
Nonfarm business	54.6	80.0	89.1	106.7	110.1	119.2	123.9	127.6	133.1	140.3
Manufacturing	52.5	78.6	84.9	103.2	104.7	117.5	122.0	124.7	130.1	138.1
Hours, <sup>2</sup> business sector	83.8	91.7	93.7	107.3	107.2	113.3	115.7	116.6	120.1	123.8
Nonfarm business	78.5	90.5	93.1	107.8	108.0	114.4	117.4	118.4	122.2	126.2
Manufacturing	86.5	97.9	91.6	101.5	93.4	99.4	98.7	97.3	97.9	100.3
Compensation per hour, <sup>3</sup> business sector	32.9	57.2	84.9	131.8	160.8	167.4	174.8	183.8	191.0	200.4
Nonfarm business	34.5	57.6	85.3	131.6	160.8	167.2	174.0	182.9	189.8	198.9
Manufacturing	35.6	59.0	84.9	132.8	162.7	168.1	176.3	184.3	189.2	197.8
Real hourly compensation, <sup>3</sup> business sector	67.3	97.0	95.6	97.0	97.8	97.8	98.4	101.7	101.9	102.7
Nonfarm business	70.7	90.0	96.1	96.7	97.8	97.5	98.0	101.1	101.2	101.9
Manufacturing	73.0	89.0	95.6	97.7	99.0	98.1	99.3	101.9	100.9	101.3
Unit labor costs, <sup>4</sup> business sector	49.7	65.3	89.0	132.6	156.7	159.1	162.8	167.5	171.9	177.2
Nonfarm business	49.7	65.2	89.1	132.9	157.6	160.4	164.9	169.8	174.2	178.8
Manufacturing	58.7	71.0	91.7	130.6	145.1	142.3	142.7	143.8	142.3	143.6
ANNUAL PERCENT CHANGE <sup>5</sup>										
Output per hour, business sector	1.7	.9	2.1	-.3	2.4	2.6	2.0	2.3	1.2	1.8
Nonfarm business	1.1	.5	1.9	-.4	3.0	2.1	1.3	2.0	1.1	2.1
Manufacturing	.6	-.4	2.6	-.7	5.2	5.4	4.5	3.8	3.7	3.6
Output, <sup>1</sup> business sector	1.8	-.9	2.1	-1.1	4.2	8.4	4.2	3.1	4.2	4.9
Nonfarm business	1.7	-1.1	-2.3	-1.2	5.0	8.3	3.9	3.0	4.4	5.4
Manufacturing	.2	-5.6	7.5	-4.5	6.4	12.2	3.8	2.3	4.3	6.1
Hours, <sup>2</sup> business sector	.1	1.8	-4.1	-.8	1.8	5.7	2.2	.8	3.0	3.1
Nonfarm business	.6	-1.5	-4.1	-.7	2.0	6.0	2.6	.9	3.2	3.2
Manufacturing	-.4	-5.9	-9.8	-4.6	1.2	6.5	-.7	-1.4	.6	2.4
Compensation per hour, <sup>3</sup> business sector	4.3	7.5	9.9	10.5	3.8	4.1	4.4	5.2	3.9	4.9
Nonfarm business	4.4	7.2	9.8	10.5	4.0	3.9	4.1	5.1	3.7	4.8
Manufacturing	4.2	7.2	11.9	11.7	2.5	3.3	4.9	4.5	2.7	4.6
Real hourly compensation, <sup>3</sup> business sector	2.6	1.7	.7	-2.6	.6	-.2	.8	3.3	.2	.8
Nonfarm business	2.6	1.4	.6	-2.6	.7	-.4	.5	3.2	1.1	.7
Manufacturing	2.4	1.4	2.6	-1.6	-.7	-.9	1.2	2.6	-1.0	.4
Unit labor costs, <sup>4</sup> business sector	2.6	6.5	7.7	10.9	1.4	1.5	2.3	2.8	2.6	3.1
Nonfarm business	3.3	6.7	7.8	11.0	1.0	1.8	2.8	3.0	2.6	2.7
Manufacturing	3.6	6.8	9.1	11.7	-2.5	-1.9	.3	.7	1.0	.9

- Represents zero. <sup>1</sup>Refers to gross domestic product originating in the sector, in 1982 prices. <sup>2</sup>Hours of all persons engaged in the business and nonfarm business sectors (employees, proprietors, and unpaid family workers); employees' and proprietors' hours in manufacturing. <sup>3</sup>Wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. Also includes an estimate of same for self-employed. Real compensation deflated by the consumer price index for all urban consumers, see text, section 15. <sup>4</sup>Hourly compensation divided by output per paid hour. <sup>5</sup>All changes are from the immediately prior year.

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

NO. 665. AVERAGE ANNUAL TOTAL COMPENSATION AND WAGES AND SALARIES PER FULL-TIME EQUIVALENT EMPLOYEE, BY INDUSTRY: 1980 TO 1988

[In dollars, except percent. Wage and salary payments include executives' compensation, bonuses, tips, and payments in kind; total compensation includes, in addition to wages and salaries, employer contributions for social insurance, employer contributions to private pension and welfare funds, directors' fees, jury and witness fees, etc.]

INDUSTRY	ANNUAL TOTAL COMPENSATION					ANNUAL WAGES AND SALARIES				
	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988
<b>Domestic industries</b>	<b>16,815</b>	<b>25,266</b>	<b>26,308</b>	<b>27,402</b>	<b>28,790</b>	<b>15,757</b>	<b>21,079</b>	<b>21,943</b>	<b>22,913</b>	<b>24,051</b>
Annual percent change <sup>1</sup>	8.4	6.1	4.1	4.2	5.1	7.8	6.0	4.1	4.4	5.0
Agriculture, forestry, and fisheries	9,896	12,833	13,219	13,722	13,957	8,596	11,086	11,464	11,877	12,111
Mining	28,191	36,997	40,044	40,974	42,291	23,405	32,035	33,320	33,922	34,916
Construction	22,033	27,581	28,685	29,828	31,390	18,571	22,768	23,589	24,586	25,866
Manufacturing	22,023	29,939	31,321	32,201	33,760	17,954	24,549	25,590	26,356	27,637
Transportation	25,029	30,895	31,546	32,382	33,323	20,850	25,305	25,710	26,377	26,986
Communication	28,341	39,980	41,741	43,733	45,123	22,079	31,381	32,769	34,463	35,506
Electric, gas, and sanitary services	27,358	39,429	41,422	43,240	44,886	21,701	31,669	33,242	34,786	36,059
Wholesale trade	21,598	28,853	30,171	31,428	33,721	18,822	25,013	26,111	27,275	28,282
Retail trade	12,490	15,625	16,280	16,790	17,474	10,953	13,602	14,130	14,586	15,141
Finance, insurance, and real estate	18,968	28,014	31,313	32,298	34,456	15,871	23,724	25,757	27,612	29,487
Services	15,236	21,395	22,393	23,894	25,317	13,460	18,743	19,821	21,013	22,258
Government and government enterprises	19,681	27,621	28,914	30,293	31,935	15,911	22,062	22,942	23,993	25,152

<sup>1</sup> Represents average for period of intervals shown; for 1980, change from 1975. For explanation of average annual percent change, see Guide to Tabular Presentation.

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. 666. AVERAGE HOURLY AND WEEKLY EARNINGS IN CURRENT AND CONSTANT (1977) DOLLARS, BY PRIVATE INDUSTRY GROUP: 1970 TO 1988**

[Average earnings include overtime. Data are for production and related workers in mining, manufacturing, and construction, and non-supervisory employees in other industries. Excludes agriculture. See headnote, table 660. See also *Historical Statistics, Colonial Times to 1970*, series D 877-892]

PRIVATE INDUSTRY GROUP	CURRENT DOLLARS						CONSTANT (1977) DOLLARS <sup>1</sup>					
	1970	1980	1985	1986	1987	1988	1970	1980	1985	1986	1987	1988
<b>Average hourly earnings</b> .....	<b>3.23</b>	<b>6.66</b>	<b>8.57</b>	<b>8.76</b>	<b>8.98</b>	<b>9.29</b>	<b>5.04</b>	<b>4.89</b>	<b>4.88</b>	<b>4.92</b>	<b>4.86</b>	<b>4.84</b>
Manufacturing.....	3.35	7.27	9.54	9.73	9.91	10.18	5.23	5.34	5.44	5.46	5.37	5.30
Mining.....	3.85	9.17	11.98	12.46	12.54	12.75	6.01	6.74	6.83	6.99	6.79	6.64
Construction.....	5.24	9.94	12.32	12.48	12.71	13.01	8.17	7.30	7.02	7.00	6.89	6.77
Transportation, public utilities.....	3.85	8.87	11.40	11.70	12.03	12.32	6.01	6.52	6.50	6.57	6.52	6.41
Wholesale trade.....	3.44	6.96	9.16	9.35	9.60	9.94	5.37	5.11	5.22	5.25	5.20	5.17
Retail trade.....	2.44	4.68	5.94	6.03	6.12	6.31	3.61	3.59	3.38	3.38	3.32	3.28
Finance, insurance, real estate.....	3.07	5.79	7.94	8.36	8.73	9.09	4.79	4.25	4.52	4.69	4.73	4.73
Services.....	2.81	5.65	7.90	8.18	8.49	8.91	4.38	4.30	4.50	4.59	4.60	4.64
<b>Average weekly earnings</b> .....	<b>120</b>	<b>235</b>	<b>299</b>	<b>305</b>	<b>313</b>	<b>322</b>	<b>187</b>	<b>173</b>	<b>170</b>	<b>171</b>	<b>169</b>	<b>168</b>
Manufacturing.....	133	289	386	396	406	418	208	212	220	222	220	218
Mining.....	164	397	520	526	532	539	256	292	296	295	288	281
Construction.....	195	368	464	467	480	493	304	270	265	262	260	257
Transportation, public utilities.....	156	351	450	459	472	484	243	258	257	252	255	252
Wholesale trade.....	137	267	352	358	366	379	214	197	200	201	198	197
Retail trade.....	82	147	175	176	179	184	128	108	100	99	97	96
Finance, insurance, real estate.....	113	210	289	304	317	326	176	154	165	171	172	170
Services.....	97	191	257	266	276	290	151	140	146	149	149	151

<sup>1</sup> See footnote 1, table 668.

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

**No. 667. ANNUAL PERCENT CHANGES IN EARNINGS AND COMPENSATION: 1979 TO 1988**

[Annual percent change from immediate prior year]

ITEM	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
<b>Current dollars:</b>										
Hourly earnings, total <sup>1</sup> .....	8.3	8.1	8.9	5.9	4.4	3.7	3.0	2.2	2.5	3.5
Hourly earnings, manufacturing.....	8.6	8.5	9.9	6.3	4.0	4.1	3.8	2.0	1.8	2.7
Compensation per employee-hour <sup>1</sup> .....	9.5	10.5	9.5	7.4	4.0	3.9	4.1	5.1	3.7	4.8
<b>Constant (1977) dollars:</b>										
Hourly earnings, total <sup>1</sup> .....	-2.8	-4.9	-1.2	-	1.2	.4	-6	.8	-1.2	-4
Hourly earnings, manufacturing.....	-2.4	-4.5	-2	.2	.9	.6	.4	.4	-1.6	-1.3
Compensation per employee-hour <sup>1</sup> .....	-1.6	-2.6	-7	1.1	.7	.4	.5	3.2	.1	.7
Consumer Price Index <sup>2</sup> .....	11.3	13.5	10.3	6.2	3.2	4.3	3.6	1.9	3.6	4.1

- Represents zero. <sup>1</sup> Nonfarm business sector. <sup>2</sup> See text, section 15.

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

**No. 668. AVERAGE WEEKLY EARNINGS IN CURRENT AND CONSTANT (1977) DOLLARS, PRIVATE NONAGRICULTURAL AND MANUFACTURING INDUSTRIES: 1960 TO 1988**

[In dollars. Average earnings include overtime. Based on reports from employing establishments and relate to full- and part-time wage and salary workers in nonagricultural establishments who worked during, or received pay for, any part of the pay period which includes the 12th of the month. See headnote, table 666. See *Historical Statistics, Colonial Times to 1970*, series D 804, for average weekly earnings in manufacturing]

YEAR	PRIVATE NONAGRICULTURAL		MANUFACTURING		YEAR	PRIVATE NONAGRICULTURAL		MANUFACTURING	
	Current dollars	Constant (1977) dollars <sup>1</sup>	Current dollars	Constant (1977) dollars <sup>1</sup>		Current dollars	Constant (1977) dollars <sup>1</sup>	Current dollars	Constant (1977) dollars <sup>1</sup>
1960.....	81	165	90	183	1980.....	235	173	269	212
1970.....	120	187	133	208	1981.....	255	170	318	212
1974.....	155	190	177	217	1982.....	267	168	330	208
1975.....	164	184	191	215	1983.....	281	171	354	216
1976.....	175	187	209	223	1984.....	293	173	374	221
1977.....	189	189	229	229	1985.....	299	170	386	220
1978.....	204	189	249	232	1986.....	305	171	396	222
1979.....	220	183	269	225	1987.....	313	169	406	220
					1988.....	322	168	418	218

<sup>1</sup> Earnings in current dollars divided by the Consumer Price Index (CPI-W) on a 1977 base; see text, section 15.

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

NO. 669. AVERAGE ANNUAL PAY, BY STATE: 1986 TO 1988

[In dollars except percent change. For workers covered by State unemployment insurance laws and for Federal civilian workers covered by unemployment compensation for Federal employees, approximately 90 percent of total civilian employment. Excludes most agricultural workers on small farms, all Armed Forces, elected officials in most States, railroad employees, most domestic workers, employees of certain nonprofit organizations and most self-employed individuals. Pay includes bonuses, cash value of meals and lodging, and tips and other gratuities. Minus sign ( - ) indicates decrease]

STATE	AVERAGE ANNUAL PAY			PERCENT CHANGE		STATE	AVERAGE ANNUAL PAY			PERCENT CHANGE	
	1986	1987	1988 <sup>1</sup>	1986-1987	1987-1988		1986	1987	1988 <sup>1</sup>	1986-1987	1987-1988
<b>U.S.</b> .....	<b>19,966</b>	<b>20,857</b>	<b>21,871</b>	<b>4.5</b>	<b>4.9</b>	MO.....	18,915	19,601	20,295	3.6	3.5
AL.....	17,638	18,318	19,003	3.9	3.7	MT.....	16,085	16,438	16,957	2.2	3.2
AK.....	28,442	28,008	28,033	-1.5	3.1	NE.....	16,106	16,526	17,190	2.6	4.0
AZ.....	18,870	19,610	20,383	3.9	3.9	NV.....	18,739	19,521	20,556	4.2	5.3
AR.....	16,162	16,529	17,023	2.3	3.0	NH.....	16,303	19,414	20,749	6.1	6.9
CA.....	21,998	23,100	24,124	5.0	4.4	NJ.....	22,309	23,642	25,748	6.9	8.0
CO.....	20,275	20,830	21,472	2.7	3.1	NM.....	17,301	17,767	18,259	2.7	2.8
CT.....	22,518	24,322	26,244	8.0	7.9	NY.....	23,200	24,634	26,347	6.2	7.0
DE.....	19,637	20,764	21,977	5.7	5.8	NC.....	16,999	17,861	18,637	5.1	4.3
DC.....	27,137	28,477	30,254	4.9	6.2	ND.....	15,778	16,157	16,508	2.4	2.2
FL.....	17,680	18,674	19,520	5.6	4.5	OH.....	19,903	20,565	21,500	3.3	4.5
GA.....	18,745	19,851	20,501	4.8	4.3	OK.....	18,345	18,618	19,098	1.5	2.6
HI.....	18,101	19,091	20,444	5.5	7.1	OR.....	18,321	18,888	19,637	3.1	4.0
ID.....	16,623	17,062	17,848	2.6	3.4	PA.....	19,403	20,408	21,485	5.2	5.3
IL.....	21,445	22,250	23,506	3.8	6.1	RI.....	17,733	18,858	20,206	6.3	7.1
IN.....	19,024	19,692	20,437	3.5	3.8	SC.....	16,603	17,280	18,009	4.1	4.2
IA.....	16,598	17,292	17,928	4.2	3.7	SD.....	14,477	14,963	15,424	3.4	3.1
KS.....	17,934	18,424	19,030	2.7	3.3	TN.....	17,561	18,501	19,209	4.8	3.8
KY.....	17,357	18,008	18,545	3.7	3.0	TX.....	19,934	20,463	21,130	2.6	3.3
LA.....	18,290	18,707	19,330	2.3	3.3	UT.....	17,863	18,303	19,010	2.5	3.9
ME.....	16,326	17,447	18,347	6.9	5.2	VT.....	16,862	17,703	18,640	5.0	5.3
MD.....	20,121	21,324	22,500	6.0	5.5	VA.....	18,972	19,963	21,052	5.2	5.5
MA.....	20,925	22,486	24,143	7.5	7.4	WA.....	19,645	20,110	20,806	2.4	3.5
MI.....	22,721	23,061	24,193	1.6	4.8	WV.....	18,402	18,820	19,341	2.3	2.8
MN.....	19,633	20,450	21,481	4.2	5.0	WI.....	18,202	18,890	19,743	3.8	4.5
MS.....	15,420	15,938	16,522	3.4	3.7	WY.....	18,969	18,817	19,097	-0.8	1.5

<sup>1</sup> Preliminary.

Source: U.S. Bureau of Labor Statistics, *Employment and Wages, Annual Averages 1988*, and USDL News Release 89-415, *Average Annual Pay by State and Industry, 1988*.

NO. 670. AVERAGE ANNUAL PAY, BY SELECTED METROPOLITAN AREAS: 1986 TO 1988

[In dollars, except percent change. For composition of metropolitan areas, see Appendix II. See also headnote, table 669. For civilian labor force data, see table 630]

METROPOLITAN AREAS RANKED BY POPULATION SIZE, 1988	AVERAGE ANNUAL PAY			Percent change, 1987-1988	METROPOLITAN AREAS RANKED BY POPULATION SIZE, 1988	AVERAGE ANNUAL PAY			Percent change, 1987-1988
	1986	1987	1988 <sup>1</sup>			1986	1987	1988 <sup>1</sup>	
<b>U.S. total</b> .....	<b>19,966</b>	<b>20,857</b>	<b>21,871</b>	<b>4.9</b>	Cincinnati-Hamilton, OH-KY-IN	18,915	19,601	20,295	3.6
U.S. metropolitan total.....	20,762	21,722	22,833	5.1	CMSA.....	20,280	21,142	21,928	3.7
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA.....	24,207	25,976	28,104	8.2	Kansas City, MO-KS MSA.....	20,062	20,848	21,598	3.6
Los Angeles-Anaheim-Riverside, CA CMSA.....	22,542	23,921	24,940	4.3	Milwaukee-Racine, WI CMSA.....	20,084	20,758	21,738	4.7
Chicago-Gary-Lake County (IL), IL-IN-WI CMSA.....	22,626	23,481	25,031	6.6	Portland-Vancouver, OR-WA CMSA.....	19,786	20,366	21,227	4.1
San Francisco-Oakland-San Jose, CA CMSA.....	24,309	25,375	26,673	5.1	Sacramento, CA MSA.....	20,223	21,047	21,937	4.2
Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA.....	21,223	22,530	23,997	6.5	Norfolk-Virginia Beach, VA MSA.....	17,597	18,268	18,983	3.9
Detroit-Ann Arbor, MI CMSA.....	24,700	25,178	26,467	5.1	Columbus, OH MSA.....	19,640	20,333	21,301	4.8
Dallas-Fort Worth, TX CMSA.....	21,915	22,768	23,553	3.4	San Antonio, TX MSA.....	17,843	18,436	19,325	4.8
Boston-Lawrence-Salem-Lowell-Brockton, MA NECMA.....	22,250	23,888	25,731	7.7	New Orleans, LA MSA.....	19,264	19,788	20,369	3.0
Washington, DC-MD-VA MSA.....	23,859	25,210	26,779	6.2	Indianapolis, IN MSA.....	20,115	21,081	21,877	3.8
Houston-Galveston-Brazoria, TX CMSA.....	23,029	23,373	24,274	3.9	Buffalo-Niagara Falls, NY CMSA.....	18,858	19,404	20,396	5.1
Miami-Fort Lauderdale, FL CMSA.....	19,330	20,602	21,542	4.6	Charlotte-Gastonia-Rock Hill, NC-SC MSA.....	18,650	19,806	20,696	4.5
Cleveland-Akron-Lorain, OH CMSA.....	21,024	21,782	22,802	4.7	Hartford-New Britain-Middletown-Bristol, CT NECMA.....	22,395	24,151	25,787	6.8
Atlanta, GA MSA.....	21,243	22,426	23,440	4.5	Salt Lake City-Ogden, UT MSA.....	18,306	18,856	19,498	3.4
St. Louis, MO-IL MSA.....	20,969	21,793	22,735	4.3	Rochester, NY MSA.....	21,843	22,307	23,469	5.2
Seattle-Tacoma, WA CMSA.....	21,286	21,863	22,709	3.9	Memphis, TN-AR-MS MSA.....	18,799	19,709	20,371	3.4
Minneapolis-St. Paul, MN-WI MSA.....	21,495	22,385	23,618	5.5	Nashville, TN MSA.....	18,667	19,737	20,469	3.7
San Diego, CA MSA.....	20,146	21,051	22,163	5.4	Orlando, FL MSA.....	18,014	18,929	19,930	5.3
Baltimore, MD MSA.....	19,911	20,978	22,242	6.0	Louisville, KY-IN MSA.....	18,684	19,448	20,048	3.1
Pittsburgh-Beaver Valley, PA CMSA.....	20,144	20,949	21,811	4.1	Oklahoma City, OK MSA.....	19,144	19,534	19,998	2.4
Phoenix, AZ MSA.....	19,730	20,612	21,438	4.0	Dayton-Springfield, OH MSA.....	20,225	20,612	21,978	6.6
Tampa-St. Petersburg-Clearwater, FL MSA.....	17,116	17,911	18,713	4.5	Greensboro-Winston-Salem-High Point, NC MSA.....	18,201	19,150	20,204	5.5
Denver-Boulder, CO CMSA.....	21,983	22,649	23,368	3.2	Birmingham, AL MSA.....	19,164	19,917	20,775	4.3
					Providence-Pawtucket-Woonsocket, RI NECMA.....	17,574	18,696	20,089	7.4
					Jacksonville, FL MSA.....	18,221	19,141	19,986	4.4
					Albany-Schenectady-Troy, NY MSA.....	19,499	20,607	21,779	5.7
					Richmond-Petersburg, VA MSA.....	19,348	20,374	21,283	4.5
					Honolulu, HI MSA.....	18,724	19,718	21,196	7.5

<sup>1</sup> Preliminary.

Source: U.S. Bureau of Labor Statistics, USDL News Release 89-458, *Annual Pay Levels in Metropolitan Areas, 1988*, and earlier issues.

# Wage and Salary Workers

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## NO. 671. FULL-TIME WAGE AND SALARY WORKERS—NUMBER AND MEDIAN WEEKLY EARNINGS, BY SELECTED CHARACTERISTICS: 1983 TO 1988

[In current dollars of usual weekly earnings. Data represent annual averages of quarterly data. See text, section 13 for a discussion of occupational data. Based on Current Population Survey; see text, section 1, and Appendix III. For definition of median, see Guide to Tabular Presentation]

CHARACTERISTIC	NUMBER OF WORKERS (1,000)				MEDIAN WEEKLY EARNINGS (dol.)			
	1983	1986	1987	1988	1983	1985	1987	1988
<b>All workers <sup>1</sup></b> .....	<b>70,976</b>	<b>77,002</b>	<b>80,836</b>	<b>82,692</b>	<b>313</b>	<b>343</b>	<b>373</b>	<b>385</b>
<b>Male</b> .....	42,309	45,589	47,162	48,049	378	406	433	449
16 to 24 years old.....	6,702	6,956	6,726	6,677	223	240	257	261
25 years old and over.....	35,607	38,632	40,436	41,371	406	442	477	487
<b>Female</b> .....	28,667	31,414	33,674	34,643	252	277	303	315
16 to 24 years old.....	5,345	5,621	5,526	5,444	197	210	226	235
25 years old and over.....	23,322	25,793	28,148	29,199	267	296	321	335
<b>White</b> .....	61,739	66,481	69,358	70,845	319	355	383	394
Male.....	37,378	40,030	41,150	41,831	387	417	450	465
Female.....	24,361	26,452	28,208	29,014	254	281	307	318
<b>Black</b> .....	7,373	8,393	9,050	9,352	261	277	301	314
Male.....	3,883	4,367	4,679	4,826	293	304	326	347
Female.....	3,490	4,026	4,371	4,527	231	252	275	288
<b>Hispanic origin <sup>2</sup></b> .....	(NA)	(NA)	6,093	6,480	(NA)	(NA)	284	290
Male.....	(NA)	(NA)	3,874	4,091	(NA)	(NA)	306	307
Female.....	(NA)	(NA)	2,219	2,370	(NA)	(NA)	251	260
<b>Family relationship:</b>								
Husbands.....	28,720	30,260	30,932	30,995	410	455	487	500
Wives.....	14,854	16,270	17,496	17,907	257	285	313	324
Women who maintain families.....	3,948	4,333	4,709	4,795	256	278	300	311
Men who maintain families.....	1,331	1,313	1,508	1,615	377	396	399	413
Other persons in families:								
Men.....	5,518	6,173	6,385	6,498	219	238	263	270
Women.....	4,032	4,309	4,469	4,502	201	213	235	247
All other men <sup>3</sup> .....	6,740	7,841	8,393	8,936	350	380	405	412
All other women <sup>3</sup> .....	5,803	6,503	7,004	7,442	274	305	326	345
<b>Occupation, male:</b>								
Managerial and professional.....	10,312	11,078	11,555	11,968	516	583	636	666
Exec., admin., managerial.....	5,344	5,835	6,117	6,238	530	593	647	682
Professional specialty.....	4,967	5,243	5,438	5,730	506	571	625	651
Technical, sales, and administrative support.....	8,125	8,803	9,241	9,267	385	420	453	472
Tech. and related support.....	1,428	1,563	1,533	1,647	424	472	500	510
Sales.....	3,853	4,227	4,580	4,519	389	431	479	488
Admin. support, incl. clerical.....	2,844	3,013	3,128	3,101	362	391	402	418
Service.....	3,723	3,947	4,143	4,317	255	272	298	299
Private household.....	11	13	(b)	8	(b)	(b)	(b)	(b)
Protective.....	1,314	1,327	1,481	1,543	355	391	427	424
Other service.....	2,398	2,607	2,646	2,766	217	230	251	257
Precision production <sup>4</sup> .....	9,180	10,026	10,125	10,249	387	408	431	446
Mechanics and repairers.....	3,418	3,752	3,681	3,713	377	400	423	441
Construction trades.....	2,966	3,308	3,548	3,622	375	394	416	423
Other.....	2,796	2,966	2,896	2,914	408	433	463	477
Operators, fabricators and laborers.....	9,833	10,585	10,926	11,026	308	325	344	352
Machine operators, assemblers, and inspectors.....	4,138	4,403	4,423	4,454	319	341	353	366
Transportation and material moving.....	3,199	3,459	3,612	3,636	335	369	386	394
Handlers, equipment cleaners, helpers, and laborers.....	2,496	2,724	2,890	2,936	251	261	289	287
Farming, forestry, fishing.....	1,137	1,150	1,171	1,221	200	216	219	234
<b>Occupation, female:</b>								
Managerial and professional.....	7,139	8,302	8,399	8,802	357	399	441	465
Exec., admin., managerial.....	2,772	3,492	4,099	4,487	339	383	416	430
Professional specialty.....	4,367	4,810	5,240	5,315	367	408	458	485
Technical, sales, and administrative support.....	13,517	14,622	15,439	15,664	247	269	293	305
Tech. and related support.....	1,146	1,200	1,264	1,312	296	321	358	384
Sales.....	2,480	2,929	3,077	3,222	204	226	246	264
Admin. support, incl. clerical.....	9,911	10,494	11,098	11,129	248	270	294	305
Service.....	3,598	3,963	4,171	4,352	173	185	199	208
Private household.....	267	330	305	320	116	130	130	139
Protective.....	139	156	186	204	250	278	314	347
Other service.....	3,193	3,477	3,680	3,828	176	188	201	210
Precision production <sup>4</sup> .....	784	906	867	926	256	268	302	302
Mechanics and repairers.....	120	144	131	137	337	392	456	392
Construction trades.....	45	53	38	69	(b)	265	(e)	335
Other.....	619	709	699	721	244	253	286	284
Operators, fabricators, and laborers.....	3,486	3,482	3,716	3,737	204	216	231	238
Machine operators, assemblers, and inspectors.....	2,853	2,778	2,962	2,952	202	216	227	236
Transportation and material moving.....	159	189	186	216	253	252	289	286
Handlers, equipment cleaners, helpers and laborers.....	474	514	568	569	211	209	233	237
Farming, forestry, fishing.....	143	138	142	161	169	185	191	201

B Data not shown where base is less than 50,000. NA Not available. <sup>1</sup> Includes other races, not shown separately. <sup>2</sup> Persons of Hispanic origin may be of any race. <sup>3</sup> The majority of these persons are living alone or with nonrelatives. Also included are persons in families where the husband, wife or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies. <sup>4</sup> Includes craft and repair.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307, and *Employment and Earnings*, January issues.

**NO. 672. MEDIAN WEEKLY EARNINGS OF FAMILIES BY TYPE OF FAMILY, NUMBER OF EARNERS, RACE, AND HISPANIC ORIGIN: 1980 TO 1988**

[Annual averages of quarterly figures based on Current Population Survey; see text, section 1, and Appendix III. For families with wage and salary earners]

CHARACTERISTIC	NUMBER OF FAMILIES (1,000)					MEDIAN WEEKLY EARNINGS (dollars)				
	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988
<b>TOTAL</b>										
<b>Total families with earners <sup>1</sup></b>	<b>41,162</b>	<b>41,616</b>	<b>42,101</b>	<b>42,733</b>	<b>42,913</b>	<b>400</b>	<b>522</b>	<b>543</b>	<b>572</b>	<b>596</b>
Married-couple families	33,825	33,459	33,569	33,844	33,664	433	582	606	637	668
One earner	14,797	13,347	13,049	12,668	12,365	303	385	393	405	418
Husband	12,127	10,346	9,979	9,640	9,429	336	440	459	477	489
Wife	2,059	2,243	2,351	2,272	2,199	159	217	223	230	238
Other family member	611	758	719	757	736	163	204	210	212	228
Two or more earners <sup>2</sup>	19,028	20,112	20,520	21,176	21,499	535	715	744	776	811
Husband and wife only	12,990	14,019	14,347	14,955	15,278	507	684	712	741	773
Husband and other family member(s)	2,369	2,159	2,056	1,996	1,872	557	689	720	749	787
Wife and other family member(s)	426	514	532	560	520	350	454	480	512	495
Other family members only	139	178	188	147	162	356	468	469	501	494
Families maintained by women	5,690	6,470	6,718	6,963	6,989	222	297	307	317	334
One earner	4,022	4,397	4,607	4,702	4,741	184	234	242	254	260
Householder	3,104	3,432	3,606	3,675	3,743	188	243	251	263	269
Other family member	918	965	1,001	1,027	999	168	200	205	215	225
Two or more earners	1,668	2,073	2,110	2,260	2,247	370	487	499	514	554
Families maintained by men	1,647	1,688	1,814	1,926	2,061	360	450	444	478	486
One earner	1,016	1,031	1,133	1,144	1,221	283	346	351	353	374
Two or more earners	631	656	681	782	840	502	625	637	675	700
<b>WHITE</b>										
<b>Total families with earners <sup>1</sup></b>	<b>35,786</b>	<b>35,848</b>	<b>36,072</b>	<b>36,555</b>	<b>36,667</b>	<b>411</b>	<b>543</b>	<b>566</b>	<b>592</b>	<b>616</b>
Married-couple families	30,316	29,899	29,885	30,095	30,135	438	589	615	647	677
One earner <sup>2</sup>	13,437	12,097	11,698	11,385	11,120	311	395	405	416	432
Husband	11,152	9,496	9,077	8,784	8,609	343	452	472	485	497
Wife	1,740	1,925	1,996	1,946	1,866	160	218	225	231	243
Two or more earners	16,878	17,802	18,167	18,710	19,015	542	723	755	785	818
Husband and wife only	11,448	12,394	12,656	13,232	13,516	511	691	720	748	780
Families maintained by women	4,140	4,616	4,786	4,959	4,930	239	311	320	329	351
Families maintained by men	1,331	1,333	1,420	1,501	1,602	374	475	476	492	496
<b>BLACK</b>										
<b>Total families with earners <sup>1</sup></b>	<b>4,503</b>	<b>4,668</b>	<b>4,810</b>	<b>4,942</b>	<b>4,999</b>	<b>299</b>	<b>378</b>	<b>391</b>	<b>412</b>	<b>435</b>
Married-couple families	2,802	2,671	2,734	2,768	2,747	366	487	503	529	576
One earner <sup>2</sup>	1,103	902	978	924	878	210	257	267	289	281
Husband	769	580	615	581	546	244	292	307	335	339
Wife	279	257	289	264	258	151	206	209	215	205
Two or more earners	1,700	1,769	1,755	1,843	1,870	472	622	645	675	713
Husband and wife only	1,238	1,258	1,269	1,318	1,340	461	603	628	646	685
Families maintained by women	1,438	1,703	1,756	1,822	1,884	192	259	267	284	291
Families maintained by men	263	294	320	352	368	307	360	348	383	419
<b>HISPANIC ORIGIN <sup>3</sup></b>										
<b>Total families with earners <sup>1</sup></b>	(NA)	(NA)	<b>3,017</b>	<b>3,219</b>	<b>3,384</b>	(NA)	(NA)	<b>412</b>	<b>425</b>	<b>451</b>
Married-couple families	(NA)	(NA)	2,272	2,411	2,488	(NA)	(NA)	459	473	494
One earner <sup>2</sup>	(NA)	(NA)	1,006	1,032	1,044	(NA)	(NA)	289	292	301
Husband	(NA)	(NA)	828	838	867	(NA)	(NA)	308	314	316
Wife	(NA)	(NA)	127	122	119	(NA)	(NA)	202	209	236
Two or more earners	(NA)	(NA)	1,266	1,379	1,444	(NA)	(NA)	603	615	671
Husband and wife only	(NA)	(NA)	809	884	908	(NA)	(NA)	582	593	623
Families maintained by women	(NA)	(NA)	538	575	634	(NA)	(NA)	273	285	295
Families maintained by men	(NA)	(NA)	207	234	261	(NA)	(NA)	380	418	429

NA Not available. <sup>1</sup> Excludes families in which there is no wage or salary earner or in which the husband, wife, or other person maintaining the family is either self-employed or in the Armed Forces. <sup>2</sup> Includes other earners, not shown separately.

<sup>3</sup> Persons of Hispanic origin may be of any race.

Source: U.S. Bureau of Labor Statistics, Bulletin 2307, and *Employment and Earnings*, January issues.

**NO. 673. NUMBER OF WORKERS WITH EARNINGS AND MEDIAN EARNINGS, BY OCCUPATION OF LONGEST JOB HELD AND SEX: 1988**

[Covers civilians 15 years old and over as of **March 1989**. Based on Current Population Survey; see text, section 1, and Appendix III. For definition of median, see Guide to Tabular Presentation]

MAJOR OCCUPATION GROUP OF LONGEST JOB HELD	ALL WORKERS				YEAR ROUND FULL-TIME				Ratio: Women to men	
	Women		Men		Women		Men			
	Number (1,000)	Median earnings	Number (1,000)	Median earnings	Number (1,000)	Median earnings	Number (1,000)	Median earnings	Number	Median earnings
<b>Total</b> <sup>1</sup> .....	<b>60,658</b>	<b>\$11,096</b>	<b>70,467</b>	<b>\$20,612</b>	<b>31,237</b>	<b>\$17,606</b>	<b>48,285</b>	<b>\$26,656</b>	<b>.65</b>	<b>.66</b>
Executive, administrators, and managerial.....	6,411	20,688	9,139	34,221	4,880	23,356	7,860	36,759	.62	.64
Professional specialty.....	8,488	20,245	8,200	33,740	4,882	25,789	6,458	37,490	.76	.69
Technical and related support.....	1,913	17,169	1,909	27,747	1,208	21,039	1,563	30,369	.77	.69
Sales.....	8,565	6,570	7,599	21,795	3,273	15,474	5,490	27,022	.60	.57
Admin. support, incl. clerical.....	16,115	12,595	3,970	18,594	9,452	16,676	2,706	24,399	3.49	.68
Precision production, craft and repair.....	1,343	12,384	13,807	21,505	799	16,869	9,759	25,746	.08	.66
Machine operators, assemblers, and inspectors.....	4,058	10,269	5,221	18,115	2,329	13,289	3,741	21,382	.62	.62
Transportation and material moving.....	532	7,130	4,727	19,484	169	13,021	3,205	23,453	.05	.56
Handlers, equipment cleaners, helpers, and laborers.....	1,039	6,694	5,030	8,574	372	13,397	2,071	17,042	.18	.79
Service workers.....	11,477	5,181	7,200	9,600	3,665	11,032	3,655	18,648	1.00	.59
Private household.....	1,262	2,170	38	(a)	224	7,299	13	(b)	17.23	(x)
Service, except private household.....	10,215	5,649	7,162	9,648	3,441	11,232	3,642	18,670	.94	.60
Farming, forestry, and fishing.....	691	2,439	3,467	7,290	194	9,926	1,687	14,300	.11	.69

B Base less than 75,000. X Not applicable. <sup>1</sup> Includes persons whose longest job was in the Armed Forces.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 166.

**NO. 674. EMPLOYMENT COST INDEX (ECI), BY INDUSTRY AND OCCUPATION: 1982 TO 1988**

[As of December. The ECI is a measure of the rate of change in employee compensation (wages, salaries, and employer costs for employee benefits). Data are not seasonally adjusted; 1982-1985 based on 1970 Census of Population; thereafter, based on fixed employment counts from the 1980 Census of Population]

ITEM	INDEXES (June 1981 = 100)							PERCENT CHANGE FOR 12 MONTHS ENDING—				
	1982	1983	1984	1985	1986	1987	1988	1984	1985	1986	1987	1988
	<b>Civilian workers</b> .....	<b>111.4</b>	<b>117.8</b>	<b>123.9</b>	<b>129.2</b>	<b>133.8</b>	<b>138.6</b>	<b>145.5</b>	<b>5.2</b>	<b>4.3</b>	<b>3.6</b>	<b>3.6</b>
Workers, by occupational group:												
White-collar workers.....	111.9	118.9	125.5	131.6	136.9	142.2	149.7	5.6	4.9	4.0	3.9	5.3
Blue-collar workers.....	110.5	115.8	120.9	124.9	128.4	132.5	138.2	4.4	3.3	2.8	3.2	4.3
Service workers.....	112.4	119.1	126.8	131.8	136.6	140.8	148.5	6.5	3.9	3.6	3.1	5.5
Workers, by industry division:												
Manufacturing.....	110.4	116.0	122.0	126.0	130.1	134.1	140.1	5.2	3.3	3.3	3.1	4.5
Nonmanufacturing.....	111.8	118.6	124.8	130.6	135.4	140.5	147.7	5.2	4.6	3.7	3.6	5.1
Services.....	115.0	122.6	130.9	137.1	143.6	150.6	159.7	6.8	4.7	4.7	4.9	6.0
Public administration <sup>2</sup> .....	113.6	121.4	128.6	134.8	141.6	148.1	154.4	5.9	4.8	5.0	4.6	4.3
<b>Private industry workers</b> <sup>2</sup> .....	<b>110.7</b>	<b>117.0</b>	<b>122.7</b>	<b>127.5</b>	<b>131.6</b>	<b>136.0</b>	<b>142.6</b>	<b>4.9</b>	<b>3.9</b>	<b>3.2</b>	<b>3.3</b>	<b>4.9</b>
Workers, by occupational group:												
White-collar workers.....	110.8	117.9	123.9	129.8	134.3	139.3	146.3	5.1	4.8	3.5	3.7	5.0
Blue-collar workers.....	110.3	115.7	120.6	124.4	127.8	131.8	137.6	4.2	3.2	2.7	3.1	4.4
Service workers.....	111.8	117.9	125.7	129.5	133.5	136.7	143.9	6.6	3.0	3.1	2.4	5.3
Workers, by industry division:												
Manufacturing.....	110.4	116.0	122.0	126.0	130.1	134.1	140.1	5.2	3.3	3.3	3.1	4.5
Nonmanufacturing.....	110.8	117.5	123.1	128.4	132.4	137.1	143.9	4.8	4.3	3.1	3.5	5.0
Services.....	(NA)	(NA)	(NA)	135.6	141.4	148.7	157.2	(NA)	(NA)	4.3	5.2	5.7
Business services.....	(NA)	(NA)	(NA)	(NA)	131.9	139.9	146.9	(NA)	(NA)	(NA)	6.1	5.0
Health services.....	(NA)	(NA)	(NA)	127.9	136.0	141.8	150.3	(NA)	(NA)	4.9	4.3	6.0
Hospitals <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	102.8	107.8	114.4	(NA)	(NA)	(NA)	4.9	6.1
Workers by bargaining status:												
Union.....	112.3	118.8	123.9	127.1	129.8	133.4	138.6	4.3	2.6	2.1	2.8	3.9
Nonunion.....	109.7	115.9	121.9	127.5	132.1	136.9	143.9	5.2	4.6	3.6	3.6	5.1
<b>State and local government workers</b> .....	<b>115.1</b>	<b>122.0</b>	<b>130.1</b>	<b>137.5</b>	<b>144.7</b>	<b>151.1</b>	<b>159.6</b>	<b>6.6</b>	<b>5.7</b>	<b>5.2</b>	<b>4.4</b>	<b>5.6</b>
Workers, by occupational group:												
White-collar workers.....	115.8	122.6	131.1	138.6	146.0	152.7	161.8	6.9	5.7	5.3	4.6	6.0
Blue-collar workers.....	113.0	119.2	125.9	132.7	139.5	144.3	149.1	5.6	5.4	5.1	3.4	3.3
Workers, by industry division:												
Services.....	115.9	122.6	131.3	139.1	146.6	153.1	163.0	7.1	5.9	5.4	4.4	6.5
Schools.....	115.8	122.6	132.0	140.3	148.4	155.5	165.7	7.7	6.3	5.8	4.8	6.6
Elementary and secondary.....	116.6	123.9	133.5	142.0	150.3	157.8	168.3	7.7	6.4	5.8	5.0	6.7
Services, excluding schools <sup>5</sup> .....	115.0	122.6	129.2	135.2	141.1	146.3	155.2	5.4	4.6	4.4	3.7	6.1
Public administration <sup>2</sup> .....	113.6	121.4	128.6	134.8	141.6	148.1	154.4	5.9	4.8	5.0	4.6	4.3

NA Not available. <sup>1</sup> Includes private industry and State and local government workers and excludes farm, household, and Federal government workers. <sup>2</sup> Consists of legislative, judicial, administrative, and regulatory activities. <sup>3</sup> Excludes farm and household workers. <sup>4</sup> For hospitals, June 1986=100. <sup>5</sup> Includes library, social, and health services. Formerly called hospitals and other services.

Source: U.S. Bureau of Labor Statistics, *News, Employment Cost Index*, quarterly.

**NO. 675. EFFECTIVE FEDERAL MINIMUM HOURLY WAGE RATES, 1950 TO 1989, AND COVERAGE IN 1988**

[Employee estimates as of **September 1988**, except as indicated. The Fair Labor Standards Act of 1938 and subsequent amendments provide for minimum wage coverage applicable to specified nonsupervisory employment categories. Exempt from coverage are executives and administrators or professionals]

IN EFFECT	MINIMUM RATES FOR NONFARM WORKERS			Minimum rates for farm workers <sup>4</sup>	SEX, RACE, AND INDUSTRY	NONSUPERVISORY EMPLOYEES, 1988				
	Laws prior to 1966 <sup>1</sup>	Per-cent, avg. earn-ings <sup>2</sup>	1966 and later <sup>3</sup>			Subject to minimum wage rates				
						Total (1,000)	Total (1,000)	Per-cent of total	Prior to 1966 <sup>6</sup> ? (1,000)	1966 and later <sup>7</sup> ? (1,000)
Jan. 25, 1950 .....	\$ .75	54	(X)	(X)	<b>Total</b> .....	<b>90,193</b>	<b>79,150</b>	<b>87.8</b>	<b>50,372</b>	<b>28,778</b>
Mar. 1, 1956 .....	1.00	52	(X)	(X)	Male .....	46,618	40,778	87.5	27,537	13,241
Sept. 3, 1961 .....	1.15	50	(X)	(X)	Female .....	43,575	38,372	88.1	22,835	15,537
Sept. 3, 1963 .....	1.25	51	(X)	(X)	White .....	79,401	69,450	87.5	44,997	24,453
Feb. 1, 1967 .....	1.40	50	\$1.00	\$1.00	Black and other .....	10,792	9,700	89.9	5,375	4,325
Feb. 1, 1968 .....	1.60	54	1.15	1.15	Black only .....	9,820	8,829	89.9	4,904	3,925
Feb. 1, 1969 .....	( <sup>8</sup> )	51	1.30	1.30	<b>Private Industry</b> .....	<b>79,495</b>	<b>68,452</b>	<b>86.1</b>	<b>50,372</b>	<b>18,080</b>
Feb. 1, 1970 .....	( <sup>8</sup> )	49	1.45	( <sup>8</sup> )	Agriculture <sup>9</sup> .....	1,635	628	38.4	-	828
Feb. 1, 1971 .....	( <sup>8</sup> )	46	1.60	( <sup>8</sup> )	Mining .....	645	642	99.4	642	-
May 1, 1974 .....	2.00	46	1.90	1.60	Construction .....	5,082	5,069	99.5	4,221	848
Jan. 1, 1975 .....	2.10	45	2.00	1.80	Manufacturing .....	17,426	16,945	97.2	16,841	104
Jan. 1, 1976 .....	2.30	46	2.20	2.00	Transp., public utilities .....	5,020	4,988	99.4	4,912	76
Jan. 1, 1977 .....	( <sup>8</sup> )	42	2.30	2.20	Wholesale trade .....	5,353	4,270	79.8	4,011	259
Jan. 1, 1978 .....	2.65	44	2.65	2.65	Retail trade .....	17,448	15,157	86.9	7,659	7,498
Jan. 1, 1979 .....	2.90	45	2.90	2.90	Finance, insurance, real estate .....	5,735	4,349	75.8	4,179	170
Jan. 1, 1980 .....	3.10	44	3.10	3.10	Service <sup>9</sup> .....	19,754	15,474	78.3	7,907	7,567
Jan. 1, 1981 .....	3.35	43	3.35	3.35	Private households .....	1,386	930	67.1	-	930
Mar. 1, 1989 .....	( <sup>8</sup> )	32	( <sup>8</sup> )	( <sup>8</sup> )	<b>Government</b> <sup>10</sup> .....	<b>10,698</b>	<b>10,698</b>	<b>100.0</b>	-	<b>10,698</b>

- Represents zero. X Not applicable. <sup>1</sup> Applies to workers covered prior to 1961 Amendments and, after Sept. 1965, to workers covered by 1961 Amendments. Rates set by 1961 Amendments were: Sept. 1961, \$1.00; Sept. 1964, \$1.15; and Sept. 1965, \$1.25. <sup>2</sup> Percent of gross average hourly earnings of production workers in manufacturing. <sup>3</sup> Applies to workers newly covered by Amendments of 1966, 1974, and 1977, and Title IX of Education Amendments of 1972. <sup>4</sup> Included in coverage as of 1966, 1974, and 1977 Amendments. <sup>5</sup> No change in rate. <sup>6</sup> Includes workers in retail-service establishments with less than \$250,000 in gross annual sales which are part of enterprises covered under criteria in effect prior to the 1966 Amendments. These workers became subject under the 1974 Amendments. <sup>7</sup> Currently employed workers subject to provisions. <sup>8</sup> Estimates based on average employment for the ten-month active season. <sup>9</sup> Estimates for educational services in private industry and government relate to October. <sup>10</sup> Federal, State, and local employees.

Source: U.S. Department of Labor, Employment Standards Administration, *Minimum Wage and Maximum Hours Standards Under the Fair Labor Standards Act*, 1981, annual; and unpublished data.

**NO. 676. WORKERS PAID HOURLY RATES AND THOSE WITH EARNINGS AT OR BELOW THE MINIMUM WAGE, BY SELECTED CHARACTERISTICS: 1988**

[Annual averages of monthly figures; for employed wage and salary workers. Based on Current Population Survey, see text, section 1, and Appendix III]

CHARACTERISTIC	NUMBER OF WORKERS <sup>1</sup> (1,000)			PERCENT DISTRIBUTION			PERCENT OF ALL WORKERS PAID HOURLY RATES			Median hourly earnings of workers paid hourly rates <sup>2</sup>	
	Total paid hourly rates	At or below \$3.35		Total paid hourly rates	At or below \$3.35		At or below \$3.35				
		Total	At \$3.35		Below \$3.35	Total	At \$3.35	Below \$3.35			
Total, 16 years and over <sup>3</sup> .....	60,878	3,927	2,608	1,319	100.0	100.0	100.0	6.5	4.3	2.2	\$6.82
16 to 24 years .....	15,770	2,281	1,612	669	25.9	61.8	50.7	14.5	10.2	4.2	4.32
16 to 19 years .....	6,130	1,418	1,036	382	10.1	39.7	29.0	23.1	16.9	6.2	4.13
25 years and over .....	45,109	1,646	996	650	74.1	38.2	49.3	3.6	2.2	1.4	7.85
Male, 16 years and over .....	31,058	1,377	1,066	311	51.0	40.9	23.6	4.4	3.4	1.0	8.08
16 to 24 years .....	8,186	946	759	187	13.4	29.1	14.2	11.6	9.3	3.3	5.20
16 to 19 years .....	3,108	616	501	115	5.1	19.2	8.7	19.8	18.1	3.7	4.26
25 years and over .....	22,872	431	307	124	37.6	11.9	9.4	1.9	1.3	.5	9.47
Women, 16 years and over .....	29,820	2,550	1,542	1,008	49.0	59.1	76.4	8.6	5.2	3.4	5.96
16 to 24 years .....	7,583	1,336	853	482	12.5	32.7	36.5	17.6	11.2	6.4	4.50
16 to 19 years .....	3,022	801	594	267	5.0	20.5	20.2	26.5	17.7	8.8	4.00
25 years and over .....	22,237	1,215	689	526	36.5	26.4	39.9	5.5	3.1	2.4	6.48
White .....	51,239	3,236	2,047	1,189	84.2	78.5	90.1	6.3	4.0	2.3	6.93
Black .....	7,830	599	499	100	12.9	19.1	7.6	7.7	6.4	1.3	6.29
Hispanic origin <sup>4</sup> .....	5,394	322	278	44	8.9	10.7	3.3	6.0	5.2	.8	6.10
Full-time workers .....	45,587	1,312	838	474	74.9	32.1	35.9	2.9	1.8	1.0	7.70
Part-time workers <sup>5</sup> .....	15,291	2,615	1,770	845	25.1	67.9	64.1	17.1	11.6	5.5	4.68
Private sector .....	53,170	3,599	2,345	1,254	87.3	89.9	95.1	6.8	4.4	2.4	6.56
Goods-producing industries <sup>6</sup> .....	19,234	392	327	65	31.6	12.5	4.9	2.0	1.7	.3	8.17
Service-producing industries <sup>7</sup> .....	33,936	3,207	2,018	1,189	55.7	77.4	90.1	9.5	5.9	3.5	5.82
Retail trade .....	12,776	2,138	1,311	827	21.0	50.3	62.7	16.7	10.3	6.5	4.54
Services .....	13,648	953	616	337	22.4	23.6	25.5	7.0	4.5	2.5	6.29
Public sector .....	7,708	326	263	65	12.7	10.1	4.9	4.3	3.4	.8	8.23

<sup>1</sup> Excludes the incorporated self-employed. <sup>2</sup> For definition of median, see Guide to Tabular Presentation. <sup>3</sup> Includes races not shown separately. <sup>4</sup> Persons of Hispanic origin may be of any race. <sup>5</sup> Working fewer than 35 hours per week. <sup>6</sup> Includes agriculture, mining, construction, and manufacturing. <sup>7</sup> Includes transportation and public utilities; wholesale trade; finance, insurance, and real estate; private households; and other service industries, not shown separately.

Source: U.S. Bureau of Labor Statistics, unpublished data.

# Employer Costs For Employee Compensation—Pension Plans

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## NO. 677. EMPLOYER COSTS FOR EMPLOYEE COMPENSATION PER HOUR WORKED, 1988 AND 1989, AND BY INDUSTRY, 1989

[As of March, for private industry workers. Based on a sample of establishments; see source for details]

COMPENSATION COMPONENT	1988, total cost (dol.)	1989 COST (dol.)					1988, percent distribution	1989 PERCENT DISTRIBUTION				
		Total	Goods producing <sup>1</sup>	Service producing <sup>2</sup>	Manufacturing	Non-manufacturing		Total	Goods producing <sup>1</sup>	Service producing <sup>2</sup>	Manufacturing	Non-manufacturing
<b>Total compensation</b> .....	<b>13.79</b>	<b>14.28</b>	<b>17.21</b>	<b>13.12</b>	<b>17.16</b>	<b>13.46</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Wages and salaries.....	10.02	10.38	11.80	9.77	11.71	10.00	72.7	72.7	69.2	74.5	68.2	74.3
Total benefits.....	3.77	3.90	5.30	3.35	5.45	3.46	27.3	27.3	30.8	25.5	31.9	25.7
Paid leave.....	.48	1.00	1.20	.92	1.33	.91	7.0	7.0	7.0	7.0	7.7	6.8
Vacation.....	.48	.50	.82	.45	.68	.45	3.5	3.5	3.6	3.4	3.9	3.3
Holiday.....	.33	.34	.43	.30	.49	.30	2.4	2.4	2.5	2.3	2.8	2.2
Sick.....	.12	.12	.10	.13	.12	.13	.9	.9	.6	1.0	.7	.9
Other.....	.04	.04	.04	.04	.04	.04	.3	.3	.2	.3	.3	.3
Supplemental pay.....	.33	.34	.60	.23	.65	.25	2.4	2.4	3.5	1.8	3.8	1.8
Premium pay.....	.17	.17	.37	.09	.40	.11	1.2	1.2	2.2	.7	2.3	.8
Nonproduction bonuses.....	.12	.12	.15	.10	.15	.11	.8	.8	.8	.8	.9	.8
Shift pay.....	.04	.05	.08	.03	.10	.03	.3	.3	.5	.3	.6	.2
Insurance.....	.78	.85	1.28	.88	1.40	.70	5.6	6.0	7.4	5.2	8.1	5.2
Pensions and savings.....	.45	.42	.57	.36	.54	.39	3.3	2.9	3.3	2.7	3.2	2.0
Pensions.....	.38	.34	.45	.30	.41	.32	2.8	2.4	2.6	2.3	2.4	2.4
Savings and thrift.....	.07	.08	.12	.06	.13	.07	.5	.6	.7	.5	.8	.5
Legally required <sup>3</sup> .....	1.22	1.27	1.61	1.14	1.48	1.21	8.8	8.9	9.3	8.7	8.6	9.0
Social Security.....	.81	.84	1.00	.77	1.00	.79	5.9	5.9	5.8	5.9	5.9	5.9
Federal unemployment.....	.03	.03	.03	.03	.03	.03	.2	.2	.2	.2	.2	.2
State unemployment.....	.12	.11	.16	.09	.15	.10	.8	.8	.9	.7	.9	.7
Workers compensation.....	.24	.27	.41	.21	.29	.26	1.7	1.9	2.4	1.6	1.7	1.9
Other benefits <sup>4</sup> .....	.02	.02	.05	(2)	.05	(2)	.2	.1	.3	(2)	.3	(2)

Z Represents or rounds to zero. <sup>1</sup> Mining, construction, and manufacturing. <sup>2</sup> Transportation, communications, public utilities, wholesale trade, retail trade, finance, insurance, real estate, and services. <sup>3</sup> Includes railroad retirement, railroad unemployment, railroad supplemental unemployment, and other legally required benefits, not shown separately. <sup>4</sup> Includes severance pay, supplemental unemployment benefits, and for 1988, merchandise discounts in department stores.

Source: U.S. Bureau of Labor Statistics, *News, Employer Costs for Employee Compensation*, June 1989, USDL 89-295.

## NO. 678. EMPLOYEES WITH EMPLOYER- OR UNION-PROVIDED PENSION PLANS, OR GROUP HEALTH PLANS, BY OCCUPATION AND INDUSTRY: 1987

[In thousands, except percent. For civilian wage and salary workers 15 years old and over as of March 1988. Based on Current Population Survey; see text, section 1, and Appendix III]

OCCUPATION	Total	WITH PENSION PLANS		WITH GROUP HEALTH PLANS		INDUSTRY	Total	WITH PENSION PLANS		WITH GROUP HEALTH PLANS	
		Number	Percent	Number	Percent			Number	Percent	Number	Percent
<b>Total</b> .....	<b>118,150</b>	<b>46,195</b>	<b>40.8</b>	<b>66,822</b>	<b>56.8</b>	<b>Total</b> .....	<b>118,150</b>	<b>46,195</b>	<b>40.8</b>	<b>66,822</b>	<b>56.8</b>
Managerial and professional specialty.....	27,521	16,088	58.5	20,345	73.9	Agriculture, forestry, fisheries.....	2,457	210	8.5	540	22.0
Executive, admin. and managerial.....	13,111	7,269	55.4	9,996	76.2	Mining.....	773	473	61.2	620	80.0
Prof. specialty.....	14,411	8,820	61.2	10,349	71.8	Construction.....	6,928	2,104	30.4	3,504	50.6
Technical, sales and admin. support.....	37,487	14,409	38.4	20,618	55.0	Manufacturing.....	22,886	12,289	54.2	17,014	75.0
Service workers.....	17,446	3,757	21.5	5,415	31.0	Transportation, public utilities.....	8,186	4,900	59.9	6,097	74.5
Pvt. household.....	1,258	9	.7	44	3.5	Wholesale trade.....	4,565	1,811	39.7	3,067	67.2
Service, exc. Pvt. household.....	16,188	3,748	23.2	5,371	33.2	Retail trade.....	21,527	3,934	18.3	7,335	34.1
Farming, forestry and fishing.....	2,676	218	8.1	515	19.2	Finance, insurance, real estate.....	7,931	3,637	45.9	5,230	65.9
Precision prod., craft, and repair.....	13,102	6,139	46.9	8,772	67.0	Business services.....	6,257	1,485	23.7	2,868	45.8
Operatives, fabricators and laborers.....	19,690	7,500	38.1	11,115	56.4	Personal services.....	4,642	440	9.5	1,091	23.5
						Entertainment and recreation.....	1,632	292	17.9	536	32.6
						Professional and related.....	24,463	12,047	49.2	14,477	59.2
						Public administration.....	5,878	4,490	76.4	4,402	74.9

<sup>1</sup> Includes civilians whose longest job was in the Armed Forces, not shown separately.

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



## NO. 679. EMPLOYEE BENEFITS IN MEDIUM AND LARGE FIRMS: 1988

[Covers full-time employees in private industry, excludes establishments with fewer than 100 workers, executive and traveling operating employees, and Alaska and Hawaii. Covers only benefits for which the employer pays part or all of the premium or expenses involved, except unpaid parental leave. Based on a sample survey of establishments; for details, see source. For data on employee benefits in State and local governments, see table 490]

TYPE OF EMPLOYEE BENEFIT	All employees	Professional and administrative	Technical and clerical	Production and service	TYPE OF EMPLOYEE BENEFIT	All employees	Professional and administrative	Technical and clerical	Production and service
Percent of employees participating in—					Retirement and savings plans:				
Paid: Vacations.....	98	98	99	97	Defined benefit pension.....	63	65	64	61
Holidays.....	96	96	98	94	Earnings-based formula <sup>2</sup> .....	45	61	56	31
Jury duty leave.....	91	95	95	87	Defined contribution.....	45	60	55	32
Funeral leave.....	85	86	88	83	Savings and thrift.....	25	37	32	15
Rest time.....	72	59	69	80	Employee stock ownership.....	2	3	3	1
Military leave.....	55	63	60	48	Profit sharing.....	18	20	21	15
Sick leave.....	69	90	90	47	Money purchase pension.....	6	8	7	3
Personal leave.....	24	32	33	15	Additional benefits: <sup>3</sup>				
Lunch time.....	11	5	6	17	Parking.....	64	83	80	87
Maternity leave.....	2	3	2	2	Educational assistance.....	70	82	79	59
Paternity leave.....	1	2	1	1	Employee discounts.....	52	53	56	49
Unpaid: Maternity leave.....	33	37	34	31	Travel accident insurance.....	49	66	58	34
Paternity leave.....	16	19	17	13	In-house infirmary.....	35	42	35	31
Insurance plans:					Severance pay.....	42	54	51	30
Health.....	90	93	91	88	Relocation allowance.....	33	64	28	18
Noncontributory.....	51	50	46	53	Recreation facilities.....	25	31	24	21
Hospital/surgical <sup>1</sup> .....	88	91	90	86	Subsidized meals.....	21	28	26	15
Mental health care.....	88	91	90	86	Nonproduction bonuses:				
Private duty nursing.....	86	90	88	84	cash.....	22	20	21	24
Dental.....	60	66	62	55	Gifts, non-cash.....	16	18	15	15
Extended care facility.....	71	76	74	66	Financial counseling.....	10	13	12	7
Home health care.....	68	74	73	63	Supplemental unemployment benefits.....	6	3	3	8
Hospice care.....	34	38	35	32	Subsidized commuting.....	5	7	7	3
Vision.....	32	33	33	30	Prepaid legal services.....	4	3	4	5
In HMO's.....	17	20	20	14	Child care.....	4	6	6	2
Life.....	92	96	94	89	Flexible benefits plans.....	5	7	7	8
Noncontributory.....	80	80	36	60	Reimbursement accounts <sup>4</sup> .....	12	20	17	5
Accident/sickness.....	46	30	29	49					
Noncontributory.....	37	23	29	49					
Long-term disability.....	42	63	53	24					
Noncontributory.....	33	50	42	20					

<sup>1</sup> Includes physician visits in hospitals, diagnostic X-ray and lab, and auxiliary hospital services. <sup>2</sup> Earnings-based formulas pay a percent of employee's annual earnings (usually earnings in the final years of employment) per year of service. <sup>3</sup> Job related.

<sup>4</sup> Account which is used throughout the year to pay for plan premiums or to reimburse the employee for benefit related expenses. Account may be financed by employer, employee, or both.

Source: U.S. Bureau of Labor Statistics, *Employee Benefits in Medium and Large Firms, 1988*, Bulletin 2336.

## NO. 680. ESTABLISHMENTS PROVIDING CHILD CARE BENEFITS AND/OR VARIED WORK-SCHEDULE POLICIES, BY ESTABLISHMENT SIZE AND SECTOR: 1987

[As of summer. For establishments with 10 employees or more. Based on sample; for details, see source]

ITEM	Total	SIZE			SECTOR			Government
		10-49 employees	50-249 employees	250 employees or more	Private			
					Total	Goods <sup>1</sup>	Services <sup>2</sup>	
<b>Total establishments (1,000).....</b>	<b>1,202</b>	<b>919</b>	<b>236</b>	<b>47</b>	<b>1,128</b>	<b>272</b>	<b>856</b>	<b>74</b>
Percent providing child-care benefits or services <sup>3</sup> .....	11.1	9.0	15.3	31.8	10.1	6.3	11.3	26.4
Employer-sponsored day care.....	2.1	1.9	2.2	5.2	1.6	.3	2.0	9.4
Assisted with child-care expenses <sup>4</sup> .....	3.1	2.4	4.7	8.9	3.1	1.9	3.5	2.9
Child-care information and referral services.....	5.1	4.3	6.3	14.0	4.3	2.3	5.0	15.8
Counseling services <sup>5</sup> .....	5.1	3.8	7.6	17.1	4.2	3.0	4.6	18.2
Percent with varied work-schedule policies aiding child care <sup>3</sup> .....	61.2	62.0	58.1	59.4	61.4	51.3	64.6	57.2
Flexitime.....	43.2	45.1	37.7	34.9	43.6	31.3	47.5	37.5
Voluntary part-time.....	34.8	36.0	32.0	25.1	35.3	22.4	39.4	26.7
Job sharing <sup>6</sup> .....	15.5	16.0	13.7	15.7	15.0	9.0	16.9	23.5
Work at home.....	8.3	9.2	5.6	3.8	8.5	8.2	8.6	4.0
Flexible leave.....	42.9	43.8	39.9	40.2	42.9	37.3	44.8	43.7

<sup>1</sup> Mining, construction, and manufacturing. <sup>2</sup> Transportation, communications, public utilities; wholesale and retail trade; finance, insurance, and real estate; and services. <sup>3</sup> The individual categories will sum to more than the total percent because many employers provide more than one benefit or policy; includes other policies, not shown separately. <sup>4</sup> Regular reimbursement of employees' child-care expenses as part of the employee benefits package. <sup>5</sup> A counselor, either a paid employee of the establishment or a contractor provided by the employer, who deals with family-related issues. <sup>6</sup> A formal arrangement whereby work of a single full-time position is performed by more than one employee.

Source: U.S. Bureau of Labor Statistics, *BLS Reports on Employer Child-Care Practices*, USDL 88-7.

**NO. 681. MAJOR COLLECTIVE BARGAINING AGREEMENTS—AVERAGE PERCENT EFFECTIVE WAGE  
ADJUSTMENTS: 1975 TO 1988**

[In percent, except as indicated. Data represent all wage adjustments implemented under the terms of private nonfarm industry agreements affecting 1,000 workers or more. Series cover production and related workers in manufacturing and nonsupervisory workers in nonmanufacturing industries. Effective wage adjustment data measure all wage changes effective in the year stemming from settlements reached in the year, deferred from prior year agreements, and cost-of-living adjustment (COLA clauses)]

ADJUSTMENTS	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total effective adjustments (prorated over all workers).....	8.7	8.2	9.1	9.9	9.5	6.8	4.0	3.7	3.3	2.3	3.1	2.6
Source:												
Current settlements.....	2.8	2.0	3.0	3.6	2.5	1.7	.8	.8	.7	.5	.7	.7
Prior agreements.....	3.7	3.7	3.0	3.5	3.8	3.6	2.5	2.0	1.8	1.7	1.8	1.3
COLA.....	2.2	2.4	3.1	2.8	3.2	1.4	.6	.9	.7	.2	.5	.6
Industry:												
Manufacturing.....	8.5	8.6	9.6	10.2	9.4	5.2	2.7	4.3	2.8	1.5	3.4	2.8
Nonmanufacturing.....	8.9	7.9	8.8	9.7	9.5	7.9	4.8	3.3	3.6	2.9	2.9	2.5
Construction.....	8.1	6.5	7.1	9.9	11.2	9.7	4.4	2.9	3.0	3.0	3.1	2.9
Transportation and public utilities.....	9.7	8.2	11.2	10.8	8.6	7.1	4.4	3.0	3.6	2.7	2.7	2.1
Wholesale and retail trade.....	9.2	8.4	6.7	7.6	8.1	6.8	5.1	3.4	3.3	2.9	2.0	2.3
Services.....	6.4	8.8	7.0	8.1	9.6	7.8	7.0	4.9	5.1	3.7	3.8	3.5
Nonmanufacturing, excluding construction.....	9.3	8.5	9.5	9.6	8.8	7.1	5.0	3.4	3.7	2.9	2.8	2.4
Effective wage change for workers receiving change.....					9.6	7.2	4.7	4.4	4.1	2.8	3.6	3.3
Source:												
Current settlements.....					9.8	7.4	2.8	3.0	3.4	1.6	2.9	3.1
Prior agreements.....					5.3	6.3	5.9	4.0	3.7	3.9	3.3	3.0
COLA.....					6.1	3.1	2.1	2.7	2.2	1.0	2.6	2.7
Total number of workers receiving wage change (mil.).....	(NA)	(NA)	(NA)	(NA)	8.6	7.9	6.5	6.2	5.6	5.4	5.4	4.7
Source (mil.):												
Current settlements.....					2.3	1.9	2.3	1.9	1.4	1.9	1.6	1.4
Prior agreements.....					6.3	4.8	3.3	3.7	3.4	2.8	3.5	2.6
COLA.....					4.5	3.8	2.3	2.5	2.3	1.4	1.3	1.3
Number of workers not receiving a wage change (mil.).....					.1	.5	1.2	1.1	1.4	1.2	1.0	1.3

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Current Wage Developments*, monthly.

**NO. 682. MAJOR COLLECTIVE BARGAINING SETTLEMENTS—AVERAGE PERCENT ADJUSTMENTS IN  
WAGES AND COMPENSATION NEGOTIATED: 1975 TO 1988**

[In percent, except as indicated. Data represent private nonfarm industry settlements affecting production and related workers in manufacturing and nonsupervisory workers in nonmanufacturing industries. Wage data cover units with 1,000 workers or more. Compensation data relate to units of 5,000 or more. Data relate to contracts negotiated in each calendar year but exclude possible adjustments in wages under cost-of-living adjustment (COLA) clauses, except increases guaranteed by the contract. Includes all settlements, whether wages and benefits were changed or not. Minus sign (-) indicates decrease]

ADJUSTMENTS	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Compensation:												
First year.....	11.4	8.3	9.0	10.4	10.2	3.2	3.4	3.6	2.6	1.1	3.0	3.1
Over life of contract <sup>1</sup> .....	8.1	6.3	6.6	7.1	8.3	2.8	3.0	2.8	2.7	1.6	2.6	2.5
Wage-rates:												
All industries:												
First year.....	10.2	7.6	7.4	9.5	9.8	3.8	2.6	2.4	2.3	1.2	2.2	2.5
Contracts with												
COLA.....	12.2	6.9	6.2	8.0	8.0	2.2	1.9	2.9	1.6	1.9	2.3	2.4
Contracts without												
COLA.....	9.1	8.0	9.1	11.7	10.6	7.0	3.3	2.1	2.7	.9	2.1	2.7
Over life of contract <sup>1</sup> .....	7.8	6.4	6.0	7.1	7.9	3.6	2.8	2.4	2.7	1.8	2.1	2.4
Contracts with												
COLA.....	7.1	5.3	4.6	5.0	5.5	2.1	2.0	1.8	2.5	1.7	1.5	1.8
Contracts without												
COLA.....	8.3	7.1	8.0	10.3	8.8	6.6	3.7	2.7	2.8	1.8	2.5	2.8
Manufacturing:												
First year.....	9.8	8.3	6.9	7.4	7.2	2.8	.4	2.3	.8	-1.2	2.1	2.2
Over life of contract <sup>1</sup> .....	8.0	6.6	5.4	5.4	6.1	2.6	2.1	1.5	1.8	.2	1.3	2.1
Nonmanufacturing:												
First year.....	10.4	7.4	8.0	10.9	11.2	4.8	3.8	2.5	3.3	2.0	2.3	2.8
Over life of contract <sup>1</sup> .....	7.8	6.4	6.8	8.3	8.8	4.7	3.2	2.9	3.3	2.3	2.7	2.5
Number of workers affected (mil.).....	2.9	2.5	3.5	3.8	2.4	3.3	3.1	2.3	2.2	2.5	2.0	1.8
Manufacturing (mil.).....	.8	.6	1.9	1.6	.8	1.7	1.1	.9	.9	.6	.9	.7
Nonmanufacturing (mil.).....	2.1	2.0	1.6	2.2	1.6	1.6	2.0	1.4	1.3	1.9	1.1	1.1

<sup>1</sup> Average annual rate of change.

Source: U.S. Bureau of Labor Statistics, *Current Wage Developments*, monthly.

## NO. 683. WORK STOPPAGES: 1960 TO 1988

[Excludes work stoppages involving fewer than 1,000 workers and lasting less than 1 day. Information is based on reports of labor disputes appearing in daily newspapers, trade journals, and other public sources. The parties to the disputes are contacted by telephone, when necessary, to clarify details of the stoppages.]

YEAR	Number of work stoppages <sup>1</sup>	Workers involved <sup>2</sup> (1,000)	DAYS IDLE		YEAR	Number of work stoppages <sup>1</sup>	Workers involved <sup>2</sup> (1,000)	DAYS IDLE	
			Number <sup>3</sup> (1,000)	Percent estimated working time <sup>4</sup>				Number <sup>3</sup> (1,000)	Percent estimated working time <sup>4</sup>
1960.....	222	896	13,260	.09	1978.....	219	1,006	23,774	.11
1965.....	268	999	15,140	.10	1979.....	235	1,021	20,409	.09
1969.....	412	1,576	29,397	.16	1980.....	187	785	20,844	.09
1970.....	381	2,468	52,761	.29	1981.....	145	729	16,908	.07
1971.....	298	2,516	35,538	.19	1982.....	96	656	9,061	.04
1972.....	250	975	16,784	.09	1983.....	81	909	17,461	.08
1973.....	317	1,400	16,260	.08	1984.....	62	376	8,499	.04
1974.....	424	1,796	31,809	.16	1985.....	54	324	7,079	.03
1975.....	235	965	17,563	.09	1986.....	69	533	11,861	.05
1976.....	231	1,519	23,962	.12	1987.....	46	174	4,469	.02
1977.....	298	* 1,212	21,256	.10	1988.....	40	118	4,364	.02

<sup>1</sup> Beginning in year indicated. <sup>2</sup> Workers counted more than once if involved in more than 1 stoppage during the year. <sup>3</sup> Resulting from all stoppages in effect in a year, including those that began in an earlier year. <sup>4</sup> Agricultural and government employees are included in the total working time; private household, forestry and fishery employees are excluded. <sup>5</sup> Revised since originally published.

Source: U.S. Bureau of Labor Statistics, *Current Wage Developments*, monthly.

## NO. 684. WORKERS KILLED OR DISABLED ON THE JOB, 1960 TO 1988, AND BY INDUSTRY GROUP, 1988

[1988 data are preliminary estimates. Estimates based on data from U.S. National Center for Health Statistics, State departments of health, and State industrial commissions. Numbers of workers based on data from U.S. Bureau of Labor Statistics]

YEAR	DEATHS						Disabling injuries <sup>2</sup> (1,000)	YEAR AND INDUSTRY GROUP	DEATHS		
	Total		Manufacturing		Nonmanufacturing				Number (1,000)	Rate <sup>1</sup>	Disabling injuries <sup>2</sup> (1,000)
	Number (1,000)	Rate <sup>1</sup>	Number (1,000)	Rate <sup>1</sup>	Number (1,000)	Rate <sup>1</sup>					
1960.....	13.8	21	1.8	10	12.1	25	1,950	<b>1988, total</b> .....	10.6	9	1,800
1965.....	14.1	20	1.8	10	12.3	24	2,100	Agriculture <sup>3</sup> .....	1.5	48	140
1970.....	13.8	18	1.7	9	12.1	21	2,200	Mining and quarrying <sup>4</sup> .....	.2	25	30
1975.....	13.0	15	1.6	9	11.4	17	2,200	Construction.....	2.2	34	210
1980.....	13.2	13	1.7	8	11.5	15	2,200	Manufacturing.....	1.1	6	350
1984.....	11.5	11	1.1	6	10.4	12	1,900	Transportation and utilities.....	1.4	24	140
1985.....	11.5	11	1.2	6	10.3	12	2,000	Trade <sup>5</sup> .....	1.1	4	320
1986.....	11.2	10	1.1	6	10.1	11	1,800	Services <sup>6</sup> .....	1.5	4	330
1987.....	11.1	10	1.0	5	10.1	11	1,800	Government.....	1.6	9	280
1988.....	10.6	9	1.1	6	9.5	10	1,800				

<sup>1</sup> Per 100,000 workers. <sup>2</sup> Disabling injury defined as one which results in death, some degree of physical impairment, or renders the person unable to perform regular activities for a full day beyond the day of the injury. <sup>3</sup> Includes forestry and fishing. <sup>4</sup> Includes oil and gas extractions. <sup>5</sup> Includes wholesale and retail trade. <sup>6</sup> Includes finance, insurance and real estate.

Source: National Safety Council, Chicago, IL, *Accident Facts*, annual. (Copyright.)

## NO. 685. INDUSTRIES WITH THE HIGHEST OCCUPATIONAL ILLNESS AND INJURY RATES: 1986 AND 1987

[Rates per 100 full-time employees. Industries shown are those with highest rates in 1987. See headnote, table 686]

SIC <sup>1</sup> code	INDUSTRY	1986	1987	SIC <sup>1</sup> code	INDUSTRY	1986	1987
(x)	<b>Private sector, total</b> .....	<b>7.9</b>	<b>8.3</b>	3031	Reclaimed rubber.....	25.7	25.3
3731	Ship building and repairing.....	21.0	40.1	3261	Vitreous plumbing fixtures.....	23.5	25.1
2011	Meat packing plants.....	33.4	38.4	3321	Grey iron foundries.....	16.7	23.8
3431	Metal sanitary ware.....	17.0	31.9	3412	Metal barrels, drums, and pails.....	21.0	23.7
2452	Prefabricated wood buildings.....	26.0	31.5	3792	Travel trailers and campers.....	21.7	23.6
2451	Mobile homes.....	29.8	28.9	3713	Truck and bus bodies.....	21.4	23.0
3334	Primary aluminum.....	9.7	28.6	3581	Automatic merchandising machines.....	28.1	22.8
3111	Leather tanning and finishing.....	20.1	26.5	2061	Raw cane sugar.....	26.2	22.7
2091	Canned and cured seafood.....	19.1	26.4	3441	Fabricated structural metal.....	22.5	22.6
2429	Special product sawmills, n.e.c. <sup>2</sup> .....	25.4	26.4	3732	Boat building and repairing.....	24.2	22.6
3332	Primary lead.....	18.1	26.3	3916	Cold finishing of steel shapes.....	17.0	22.5
2083	Malt.....	19.3	25.7	2013	Sausages and other prepared meats.....	20.4	22.2
2439	Structural wood members, n.e.c. <sup>2</sup> .....	27.1	25.6	3795	Tanks and tank components.....	8.2	22.2

<sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> N.e.c. means not elsewhere classified.

Source: U.S. Bureau of Labor Statistics, *Occupational Injuries and Illnesses in the United States by Industry*, annual.

# Occupational Injury and Illness

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## No. 686. OCCUPATIONAL INJURY AND ILLNESS INCIDENCE RATES, SELECTED INDUSTRIES: 1980 TO 1987

[Rates per 100 full-time employees. For nonfarm employment data, see table 662. Rates refer to any occupational injury or illness resulting in (1) fatalities, (2) lost workday cases, or (3) nonfatal cases without lost workdays. Incidence rates were calculated as: Number of injuries and illnesses or lost workdays divided by total hours worked by all employees during year multiplied by 200,000 as base for 100 full-time equivalent workers (working 40 hours per week, 50 weeks a year). Based on the 1972 *Standard Industrial Classification (SIC) Manual*]

SIC code	INDUSTRY	TOTAL CASES <sup>2</sup>			LOST WORKDAY CASES			NONFATAL CASES, NO LOST WORKDAYS			LOST WORKDAYS	
		1980	1985	1987	1980	1985	1987	1980	1985	1987	1985	1987
(x)	<b>Private sector <sup>3</sup></b>	<b>8.7</b>	<b>7.9</b>	<b>8.3</b>	<b>4.0</b>	<b>3.6</b>	<b>3.8</b>	<b>4.7</b>	<b>4.3</b>	<b>4.4</b>	<b>64.9</b>	<b>69.9</b>
A	<b>Agriculture, forestry, fishing <sup>3</sup></b>	<b>11.9</b>	<b>11.4</b>	<b>11.2</b>	<b>5.8</b>	<b>5.7</b>	<b>5.7</b>	<b>6.1</b>	<b>5.6</b>	<b>5.5</b>	<b>91.3</b>	<b>94.1</b>
B	<b>Mining</b>	<b>11.2</b>	<b>8.4</b>	<b>8.5</b>	<b>6.5</b>	<b>4.8</b>	<b>4.9</b>	<b>4.6</b>	<b>3.6</b>	<b>3.6</b>	<b>145.3</b>	<b>144.0</b>
10	Metal mining	8.6	6.1	7.8	5.6	3.3	4.3	3.4	2.7	3.3	133.5	123.0
11	Anthracite mining	13.8	8.7	9.7	6.5	7.0	7.5	5.2	1.5	2.2	445.8	290.5
12	Bituminous coal and lignite	10.1	6.6	11.6	8.3	5.1	8.1	1.8	1.5	3.4	199.2	228.3
13	Oil and gas extraction	13.4	10.1	8.3	6.7	5.3	4.1	6.6	4.8	4.4	143.8	139.6
14	Nonmetallic minerals, exc. fuels	5.4	3.9	5.9	3.6	2.6	3.6	1.8	1.3	2.3	87.3	67.8
C	<b>Construction</b>	<b>15.7</b>	<b>15.2</b>	<b>14.7</b>	<b>6.5</b>	<b>6.8</b>	<b>6.8</b>	<b>9.1</b>	<b>8.4</b>	<b>7.9</b>	<b>128.9</b>	<b>135.8</b>
15	General building contractors	15.5	15.2	14.2	6.5	6.8	6.5	8.0	8.4	7.7	120.4	134.0
16	Heavy construction contractors	16.3	14.5	14.5	6.3	6.3	6.4	9.9	8.1	6.1	127.3	139.1
17	Special trade contractors	15.5	15.4	15.0	6.7	7.0	7.1	8.8	8.4	7.9	133.3	135.7
D	<b>Manufacturing</b>	<b>12.2</b>	<b>10.4</b>	<b>11.9</b>	<b>5.4</b>	<b>4.6</b>	<b>5.3</b>	<b>6.8</b>	<b>5.8</b>	<b>6.7</b>	<b>80.2</b>	<b>95.5</b>
(x)	Durable goods	12.9	10.9	12.5	5.6	4.7	5.4	7.3	6.2	7.1	82.0	96.8
24	Lumber and wood products	18.6	18.5	18.9	9.5	9.3	9.6	9.1	9.2	9.3	171.4	176.5
25	Furniture and fixtures	16.0	15.0	15.4	6.6	6.3	6.7	9.4	8.7	8.7	100.4	103.6
32	Stone, clay, and glass products	15.0	13.9	14.9	7.1	5.7	7.1	7.9	7.2	6.1	127.8	135.8
33	Primary metal industries	15.2	12.6	17.0	7.1	5.7	7.4	8.1	6.8	9.6	113.8	145.8
34	Fabricated metal products	18.5	16.3	17.0	8.0	6.9	7.2	10.5	9.4	9.8	110.1	121.9
35	Machinery, exc. electric	13.7	10.8	11.3	5.5	4.2	4.4	8.2	6.6	6.9	69.3	72.7
36	Electric and electronic equipment	8.0	6.4	7.2	3.3	2.7	3.1	4.7	3.7	4.1	45.7	55.9
37	Transportation equipment	10.6	9.0	13.5	4.9	3.9	5.7	5.7	5.0	7.8	71.6	105.7
38	Instruments and related products	6.8	5.2	5.8	2.7	2.2	2.4	4.1	3.0	3.3	37.9	43.9
39	Miscellaneous	10.9	9.7	10.7	4.3	4.2	4.6	6.5	5.6	6.1	73.2	81.5
(x)	Nondurable goods	11.1	9.6	11.1	5.0	4.4	5.1	6.1	5.2	6.0	77.6	93.5
20	Food and kindred products	18.7	16.7	17.7	9.0	8.1	8.6	9.7	8.6	9.1	138.0	153.7
21	Tobacco manufactures	8.1	7.3	8.6	3.8	3.0	2.5	4.3	4.3	6.2	51.7	46.4
22	Textile mill products	9.1	7.5	9.0	3.3	3.0	3.6	5.8	4.5	5.4	57.4	65.9
23	Apparel and other textile products	6.4	6.7	7.4	2.2	2.6	3.1	4.2	4.1	4.3	44.1	59.5
26	Paper and allied products	12.7	10.2	12.8	5.8	4.7	5.8	7.9	6.5	7.0	94.6	122.3
27	Printing and publishing	6.9	6.3	6.7	3.1	2.9	3.1	3.9	3.5	3.6	49.2	55.1
28	Chemicals and allied products	6.8	5.1	7.0	3.1	2.3	3.1	3.7	2.8	3.9	38.8	58.8
29	Petroleum and coal products	7.2	5.1	7.3	3.5	2.4	3.1	3.7	2.7	4.2	49.9	65.9
30	Rubber and misc. plastics products	15.5	13.4	15.9	7.4	6.3	7.6	8.1	7.1	8.2	107.4	130.8
31	Leather and leather products	11.7	10.3	12.4	5.0	4.6	5.8	6.7	5.7	6.7	88.3	114.5
E	<b>Transportation, public utilities</b>	<b>9.4</b>	<b>8.6</b>	<b>8.4</b>	<b>5.5</b>	<b>5.0</b>	<b>4.9</b>	<b>3.8</b>	<b>3.6</b>	<b>3.5</b>	<b>107.1</b>	<b>108.1</b>
40	Railroad transportation	11.1	8.4	7.1	7.2	5.8	5.3	3.8	2.6	1.8	92.0	86.3
41	Local passenger transit <sup>4</sup>	9.5	9.4	9.2	5.2	5.4	5.5	4.3	3.9	3.6	120.7	139.4
42	Trucking and warehousing	14.9	13.9	12.3	9.0	8.5	7.6	5.9	5.4	4.7	210.1	188.7
44	Water transportation	14.2	13.0	12.9	8.4	7.2	7.5	5.7	5.8	5.4	249.1	284.3
45	Air transportation	13.3	13.1	14.3	8.2	7.4	7.8	5.1	5.7	6.4	116.3	134.5
46	Pipelines, except natural gas	5.2	3.7	(NA)	1.7	1.6	(NA)	3.5	2.1	(NA)	45.8	(NA)
47	Transportation services	4.7	3.9	3.4	2.5	2.2	2.0	2.2	1.7	1.4	42.6	41.3
48	Communication	2.8	2.9	2.8	1.6	1.6	1.6	1.2	1.3	1.3	24.2	26.4
49	Electric, gas, sanitary services	8.6	6.9	7.6	4.3	3.4	3.8	4.2	3.5	3.8	62.4	68.9
F, G	<b>Wholesale and retail trade</b>	<b>7.4</b>	<b>7.4</b>	<b>7.7</b>	<b>3.2</b>	<b>3.2</b>	<b>3.4</b>	<b>4.2</b>	<b>4.2</b>	<b>4.3</b>	<b>50.7</b>	<b>56.1</b>
F	Wholesale trade	8.2	7.2	7.4	3.9	3.5	3.7	4.3	3.6	3.7	59.8	64.0
G	Retail trade	7.1	7.5	7.8	2.9	3.1	3.3	4.2	4.4	4.5	47.0	52.9
H	<b>Finance, insurance, real estate <sup>5</sup></b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>.8</b>	<b>.9</b>	<b>.9</b>	<b>1.1</b>	<b>1.1</b>	<b>1.1</b>	<b>15.4</b>	<b>14.3</b>
60	Banking	1.5	1.6	1.4	.6	.7	.6	.9	1.0	.9	10.7	6.5
62	Security, commodity brokers	.8	.6	(NA)	.3	.3	(NA)	.5	.4	(NA)	4.0	(NA)
63	Insurance carriers	1.7	1.8	1.8	.7	.8	.8	1.0	1.0	1.0	18.0	17.1
64	Insurance agents, brokers, and service	.8	.7	1.0	.3	.3	.5	.5	.4	.6	5.2	(NA)
65	Real estate	4.4	4.2	4.7	2.2	2.1	2.4	2.2	2.1	2.4	34.6	37.3
I	<b>Services <sup>5</sup></b>	<b>5.2</b>	<b>5.4</b>	<b>5.5</b>	<b>2.3</b>	<b>2.6</b>	<b>2.7</b>	<b>2.9</b>	<b>2.8</b>	<b>2.8</b>	<b>45.4</b>	<b>45.8</b>
70	Hotels and other lodgings	8.9	10.0	10.6	3.7	4.3	4.7	5.2	5.8	5.9	64.1	80.7
72	Personal services	2.9	2.9	3.1	1.3	1.5	1.6	1.6	1.5	1.6	28.4	27.5
73	Business services	4.4	4.7	4.6	2.1	2.2	2.3	2.3	2.5	2.3	46.6	38.0
75	Auto repair, services, and garages	7.5	6.5	6.7	3.3	3.2	3.1	4.2	3.3	3.6	51.5	52.6
76	Miscellaneous repair services	8.3	7.9	7.2	4.2	4.0	3.7	4.6	3.9	3.5	69.4	71.9
77	Motion pictures	4.7	4.1	2.8	1.6	1.6	1.1	3.1	2.8	1.7	31.7	16.1
79	Amusement, recreation services	9.2	8.2	8.7	3.8	3.5	4.1	5.4	4.6	4.6	51.2	64.4
80	Health services	6.4	7.1	7.2	3.1	3.6	3.7	3.3	3.5	3.5	63.2	66.7
81	Legal services	.4	.6	.6	.2	.3	.3	.2	.3	.3	7.3	4.3
82	Educational services	3.3	3.4	3.3	1.4	1.4	1.4	1.9	2.0	1.9	22.6	22.5
83	Social services	5.1	6.0	5.9	2.2	2.6	2.9	2.9	3.3	3.0	45.0	44.4
84	Museums, botanical, zoological gardens	7.5	6.0	6.1	3.3	2.7	3.1	4.1	3.3	3.0	39.3	38.4
86	Membership organizations	3.4	(NA)	(NA)	1.0	(NA)	(NA)	2.4	(NA)	(NA)	(NA)	(NA)
89	Miscellaneous services	1.6	1.7	1.6	.7	.7	.6	.9	1.0	.9	8.3	11.3

NA Not available. X Not applicable. <sup>1</sup> Standard Industrial Classification; see text, section 13. <sup>2</sup> "Cases" represents nonfatal cases without lost workdays. <sup>3</sup> Excludes farms with fewer than 11 employees. <sup>4</sup> Includes interurban. <sup>5</sup> Includes categories not shown separately.

Source: U.S. Bureau of Labor Statistics, *Occupational Injuries and Illnesses in the United States by Industry*, annual.

**No. 687. U.S. MEMBERSHIP IN AFL-CIO AFFILIATED UNIONS, BY SELECTED UNION: 1979 TO 1989**

[In thousands. Figures represent the labor organizations as constituted in 1989 and reflect past merger activity. Membership figures based on average per capita paid membership to the AFL-CIO for the 2-year period ending in June of the year shown and reflect only actively-employed members. Labor unions shown had a membership of 70,000 or more in 1989]

LABOR ORGANIZATION	1979	1985	1987	1989	LABOR ORGANIZATION	1979	1985	1987	1989
<b>Total</b> <sup>1</sup>	<b>13,621</b>	<b>13,109</b>	<b>12,702</b>	<b>14,100</b>	Hotel Employees and Restaurant Employees	373	327	293	278
Actors and Artists	75	100	95	97	Ironworkers	146	140	122	111
Automobile, Aerospace and Agriculture (UAW)	(x)	974	998	917	Laborers	475	383	371	406
Bakery, Confectionery and Tobacco	131	115	109	103	Letter Carriers (NALC)	151	186	200	201
Boiler Makers, Iron Shipbuilders <sup>2</sup>	129	110	90	75	Machinists and Aerospace (IAM) <sup>3</sup>	688	537	521	517
Bricklayers	106	95	84	84	Office and Professional Employees	83	90	86	84
Carpenters <sup>2</sup>	626	616	617	613	Oil, Chemical, Atomic Workers (OCAW)	146	108	96	71
Clothing and Textile Workers (ACTWU) <sup>2</sup>	308	228	195	180	Painters	160	133	128	128
Communication Workers (CWA)	485	524	515	492	Paperworkers Int'l.	262	232	221	210
Electrical Workers (IBEW)	825	791	765	744	Plumbing and Pipefitting	228	226	220	220
Electronic, Electrical and Salaried <sup>2,4</sup>	243	198	185	171	Postal Workers	245	232	230	213
Operating Engineers	313	330	330	330	Retail, Wholesale Department Store	122	106	140	137
Firefighters	150	142	142	142	Rubber, Cork, Linoleum, Plastic	158	106	97	92
Food and Commercial Workers (UFCW) <sup>2</sup>	1,123	989	1,000	999	Seafarers	84	80	80	80
Garment Workers (ILGWU)	314	210	173	153	Service Employees (SEIU) <sup>2,5</sup>	537	688	762	762
Glass, Molders, Pottery, and Plastics <sup>2</sup>	50	104	97	86	Sheet Metal Workers	120	108	108	108
Government, American Federation (AFGE)	236	199	157	156	State, County, Municipal (AFSCME) <sup>6</sup>	889	997	1,032	1,090
Graphic Communications <sup>2</sup>	171	141	136	124	Steelworkers	964	572	494	481
					Teachers (AFT)	423	470	499	544
					Teamsters <sup>6</sup>	(x)	(x)	(x)	1,161
					Transit Union	94	94	94	96
					Transport Workers	85	85	85	85
					Transportation/Communications Int'l.	127	102	113	86

X Not applicable. <sup>1</sup> Includes other AFL-CIO affiliated unions, not shown separately. <sup>2</sup> Figures reflect mergers with one or more unions since 1979. For details see source. <sup>3</sup> Includes Blacksmiths, Forgers and Helpers. <sup>4</sup> Includes Machine and Furniture Workers. <sup>5</sup> Excludes Hospital and Health Care Employees which merged into both unions on June 1, 1989, (membership of 23,000 in 1985, 60,000 in 1987, and 58,000 in 1989). <sup>6</sup> Includes Chauffeurs, Warehousemen and Helpers.

Source: American Federation of Labor and Congress of Industrial Organizations, Washington, DC, *Report of the AFL-CIO Executive Council*, annual.

**No. 688. U.S. UNION MEMBERSHIP IN MANUFACTURING, BY STATE: 1984 TO 1988**

[Data represent annual average, dues-paying full-time equivalent membership derived from financial records. Excludes unemployed members. In general, annual per capita revenues received by the parent organization were divided by the per capita rate to yield membership. For unions with multiple dues structures or other structures, other methods were used. See source for details. A right-to-work State has laws which prohibit collective bargaining contracts from including clauses requiring union membership as a condition of employment. Data for DC not available]

STATE	MANUFACTURING—UNION MEMBERSHIP (1,000)			PERCENT OF EMPLOYED <sup>1</sup>			STATE	MANUFACTURING—UNION MEMBERSHIP (1,000)			PERCENT OF EMPLOYED <sup>1</sup>		
	1984	1987	1988	1984	1987	1988		1984	1987	1988	1984	1987	1988
<b>U.S.</b>	<b>5,285.9</b>	<b>4,883.6</b>	<b>4,771.1</b>	<b>27.3</b>	<b>25.8</b>	<b>24.9</b>	MO	179.2	141.2	136.5	41.3	34.1	32.4
AL <sup>2</sup>	72.2	59.8	57.4	20.1	16.7	15.3	MT	5.6	5.1	5.2	24.9	23.8	25.0
AK	4.3	4.0	3.7	38.1	29.6	25.5	NE <sup>3</sup>	11.1	9.0	9.1	12.3	10.6	9.9
AZ <sup>2</sup>	9.2	7.6	7.2	5.3	4.1	3.8	NV <sup>2</sup>	1.6	1.6	1.5	7.6	6.8	6.2
AR <sup>2</sup>	28.6	28.4	27.3	13.4	13.0	12.0	NH	9.9	8.6	8.2	8.0	7.2	6.7
CA	510.5	494.9	488.4	24.7	23.8	22.6	NJ	184.9	168.1	165.6	25.4	24.7	24.8
CO	21.2	19.6	18.8	10.9	10.7	10.0	NM	5.6	4.2	4.2	15.3	10.8	10.4
CT	70.2	60.9	58.7	16.9	15.6	15.6	NY	668.2	612.8	588.0	50.4	50.3	48.2
DE	13.8	14.3	14.1	19.6	20.7	20.5	NC <sup>2</sup>	41.4	41.5	39.7	5.0	4.9	4.6
FL <sup>2</sup>	43.3	47.6	48.2	8.6	9.1	8.9	ND <sup>2</sup>	2.1	1.8	1.7	13.6	11.5	10.4
GA <sup>2</sup>	77.3	70.9	67.8	14.1	12.4	11.9	OH	469.0	460.1	450.4	41.6	42.1	40.9
HI	9.0	9.5	9.1	41.3	43.0	41.4	OK	30.6	27.2	26.9	17.5	17.1	17.1
ID <sup>2</sup>	7.3	5.0	4.9	13.3	9.3	8.6	OR	49.9	46.3	45.2	24.8	23.0	21.4
IL	407.7	317.8	314.8	40.9	34.2	33.3	PA	457.1	434.8	428.3	40.7	41.9	40.7
IN	248.7	250.9	237.8	40.1	41.3	37.6	RI	13.0	13.2	12.8	10.7	11.0	11.1
IA <sup>2</sup>	65.3	48.9	46.8	30.8	23.1	20.8	SC <sup>2</sup>	14.6	13.2	11.8	3.9	3.6	3.1
							SD <sup>2</sup>	1.1	.9	.8	3.8	3.1	2.7
							TN <sup>2</sup>	78.4	69.6	67.2	15.8	14.0	13.5
KS <sup>2</sup>	22.6	21.1	20.6	12.8	11.8	11.4	TX <sup>2</sup>	159.8	144.0	142.6	15.9	15.0	15.1
KY	69.6	63.9	62.8	27.0	24.8	23.0	UT <sup>2</sup>	6.8	5.1	4.9	7.2	5.5	5.0
LA <sup>2</sup>	36.8	34.9	34.5	20.2	20.8	20.4	VT	5.5	4.4	4.1	11.2	8.9	8.3
ME	23.8	20.4	20.1	21.5	19.8	18.7	VA <sup>2</sup>	48.5	53.1	52.1	11.5	12.5	12.2
MD	71.2	62.9	62.0	32.5	30.3	30.0	WA	99.7	94.1	93.6	34.6	30.0	28.2
MA	128.8	117.1	115.8	19.2	19.4	19.9	WV	34.9	29.1	25.7	38.1	33.6	29.8
MI	487.8	502.2	500.6	50.7	51.9	53.6	WI	161.4	138.9	133.3	31.1	28.7	24.3
MN	96.2	71.8	70.1	25.7	19.3	18.1	WY <sup>2</sup>	1.6	1.5	1.3	20.0	18.5	15.9
MS <sup>2</sup>	19.0	19.8	19.0	8.7	8.8	8.1							

<sup>1</sup> Employed in manufacturing. <sup>2</sup> Right-to-work State. <sup>3</sup> Right-to-work State beginning 1987.

Source: Grant/Thornton, Chicago, IL, *Manufacturing Climate Study*, annual (prepared by Leo Troy).

# Union Members

## NO. 689. UNION MEMBERS, BY SELECTED CHARACTERISTICS: 1983 AND 1988

[Annual averages of monthly data. Covers employed wage and salary workers 16 years old and over. Excludes self-employed workers whose businesses are incorporated although they technically qualify as wage and salary workers. Based on Current Population Survey, see text, section 1 and Appendix 1f]

CHARACTERISTIC	EMPLOYED WAGE AND SALARY WORKERS						MEDIAN USUAL WEEKLY EARNINGS <sup>3</sup> (doll.)											
	Total (1,000)		Union members <sup>1</sup> (1,000)		Represented by unions <sup>2</sup> (1,000)		Percent union members		Percent represented by union		Total		Union members <sup>1</sup>		Represented by unions <sup>2</sup>		Not represented by unions	
	1983	1988	1983	1988	1983	1988	1983	1988	1983	1988	1983	1988	1983	1988	1983	1988	1983	1988
<b>Total</b>	<b>86,290</b>	<b>101,407</b>	<b>17,717</b>	<b>17,002</b>	<b>20,532</b>	<b>19,241</b>	<b>16.8</b>	<b>23.3</b>	<b>19.0</b>	<b>19.0</b>	<b>313</b>	<b>385</b>	<b>388</b>	<b>430</b>	<b>476</b>	<b>288</b>	<b>356</b>	
16-24 years	19,305	19,488	1,749	1,206	2,145	1,457	9.1	6.2	7.5	210	249	281	312	275	309	203	242	
25-34 years	25,979	30,688	5,097	4,578	5,223	4,578	14.9	28.1	17.0	321	383	382	453	376	447	304	365	
35-44 years	24,362	28,484	5,178	5,382	5,953	5,178	21.2	28.6	24.0	369	449	411	504	407	501	339	419	
45-54 years	13,752	16,893	2,166	2,106	4,107	2,166	24.0	30.5	20.5	366	452	404	507	402	505	335	415	
55-64 years	9,204	10,237	1,354	1,168	2,768	1,354	23.2	30.3	23.7	366	419	382	479	380	479	316	384	
65 years and over	1,934	2,182	186	184	234	223	8.0	12.1	10.5	260	323	338	451	350	437	238	288	
Men	47,856	53,912	11,609	11,019	13,270	12,132	24.7	20.4	22.4	478	449	416	506	414	506	349	416	
Women	40,433	47,495	5,908	5,982	7,262	7,109	14.6	18.0	15.0	262	315	309	403	307	399	237	300	
White	77,048	87,176	14,844	13,932	17,182	15,759	18.3	16.0	22.3	18.1	319	394	396	488	391	484	295	368
Men	42,168	46,763	10,134	9,294	11,364	10,210	24.0	19.9	26.9	21.8	387	465	423	513	421	512	362	432
Women	34,877	40,393	4,710	4,638	5,818	5,549	13.5	11.5	16.7	13.7	254	318	314	410	313	406	240	305
Black	6,979	11,176	2,440	2,639	2,888	2,712	22.9	31.7	25.9	28.1	314	331	417	324	413	222	279	
Men	4,477	5,502	1,420	1,438	1,601	1,601	31.7	26.1	36.1	28.1	263	347	366	458	360	455	244	298
Women	4,502	5,674	1,020	1,121	1,285	1,237	22.7	19.8	27.4	22.9	231	288	292	374	287	369	208	263
Hispanic <sup>4</sup>	7,823	(NA)	1,220	(NA)	1,353	(NA)	18.0	(NA)	17.7	(NA)	290	(NA)	(NA)	400	(NA)	387	(NA)	270
Men	4,535	(NA)	837	(NA)	913	(NA)	18.5	(NA)	20.1	(NA)	307	(NA)	(NA)	431	(NA)	430	(NA)	263
Women	3,088	(NA)	384	(NA)	440	(NA)	12.4	(NA)	14.3	(NA)	280	(NA)	(NA)	328	(NA)	325	(NA)	249
Full-time workers	70,976	82,692	16,271	15,773	18,745	17,753	22.9	19.1	26.4	21.5	313	385	388	480	383	476	288	356
Part-time workers	17,314	18,716	1,446	1,229	1,787	1,488	8.4	6.6	10.3	8.0	(X)	(X)	(X)	(X)	(X)	(X)	(X)	
Managerial and professional specialty	19,657	24,368	3,354	3,342	4,470	4,470	17.1	15.0	18.3	493	562	423	559	421	550	446	552	
Technical sales, and admin. support	28,024	32,271	3,377	3,372	3,978	3,978	12.1	10.3	12.0	12.3	381	347	350	424	341	417	323	
Service occupations	12,875	14,178	1,971	1,989	2,225	2,225	15.3	14.0	17.9	15.7	205	245	305	386	289	384	182	218
Precision, production, craft, and repair	10,542	11,766	3,184	3,260	3,374	3,374	32.9	26.9	35.7	28.7	377	430	456	538	450	531	322	388
Operators, fabricators, and laborers	15,416	17,010	5,452	4,815	5,839	5,105	35.4	28.3	37.9	30.0	275	313	366	436	361	429	226	273
Farming, forestry, and fishing	1,775	1,813	98	77	122	91	5.5	4.2	6.9	5.0	196	229	292	358	287	357	189	223
Agricultural wage and salary workers	1,446	1,492	49	30	55	35	3.4	2.0	3.8	2.4	108	200	(X)	(X)	(X)	105	206	
Private nonagr. wage and salary workers	71,225	82,744	11,933	10,674	13,366	11,723	16.6	12.9	19.8	14.2	397	375	389	474	381	469	288	352
Mining	869	711	180	133	146	146	20.7	18.7	23.1	20.2	48	526	470	523	523	498	296	288
Construction	4,109	5,193	1,131	1,096	1,207	1,151	27.5	21.1	25.4	22.2	348	405	518	603	510	598	448	526
Manufacturing	19,066	20,430	5,303	4,516	5,812	4,854	27.8	22.1	30.5	23.8	335	402	370	443	368	440	315	385
Transportation and public utilities	5,142	6,053	2,182	2,001	2,376	2,144	42.4	33.1	46.2	35.4	417	488	449	530	445	525	366	446
Wholesale and retail trade, total	16,081	20,597	1,568	1,386	1,775	1,559	6.7	9.8	7.6	9.8	301	353	405	440	348	404	242	294
Finance, insurance, and real estate	5,559	6,812	1,160	1,178	228	238	2.9	2.6	4.1	3.5	286	391	284	390	285	384	297	381
Services	18,400	22,944	1,365	1,170	1,683	1,770	7.1	5.9	9.8	7.1	372	340	303	389	303	368	268	335
Government	15,618	17,175	5,795	5,298	7,109	7,483	36.7	36.7	45.5	43.6	444	444	489	381	485	316	397	

B Data not shown where base is less than 50,000. NA Not available. X Not applicable. <sup>1</sup> Members of a labor union or an employee association similar to a labor union. <sup>2</sup> Members of a labor union or an employee association similar to a union as well as workers who report no union affiliation but whose jobs are covered by a union or an employee association contract. <sup>3</sup> For full-time employed wage and salary workers; 1983 revised since originally published. <sup>4</sup> Hispanic persons may be of any race.

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