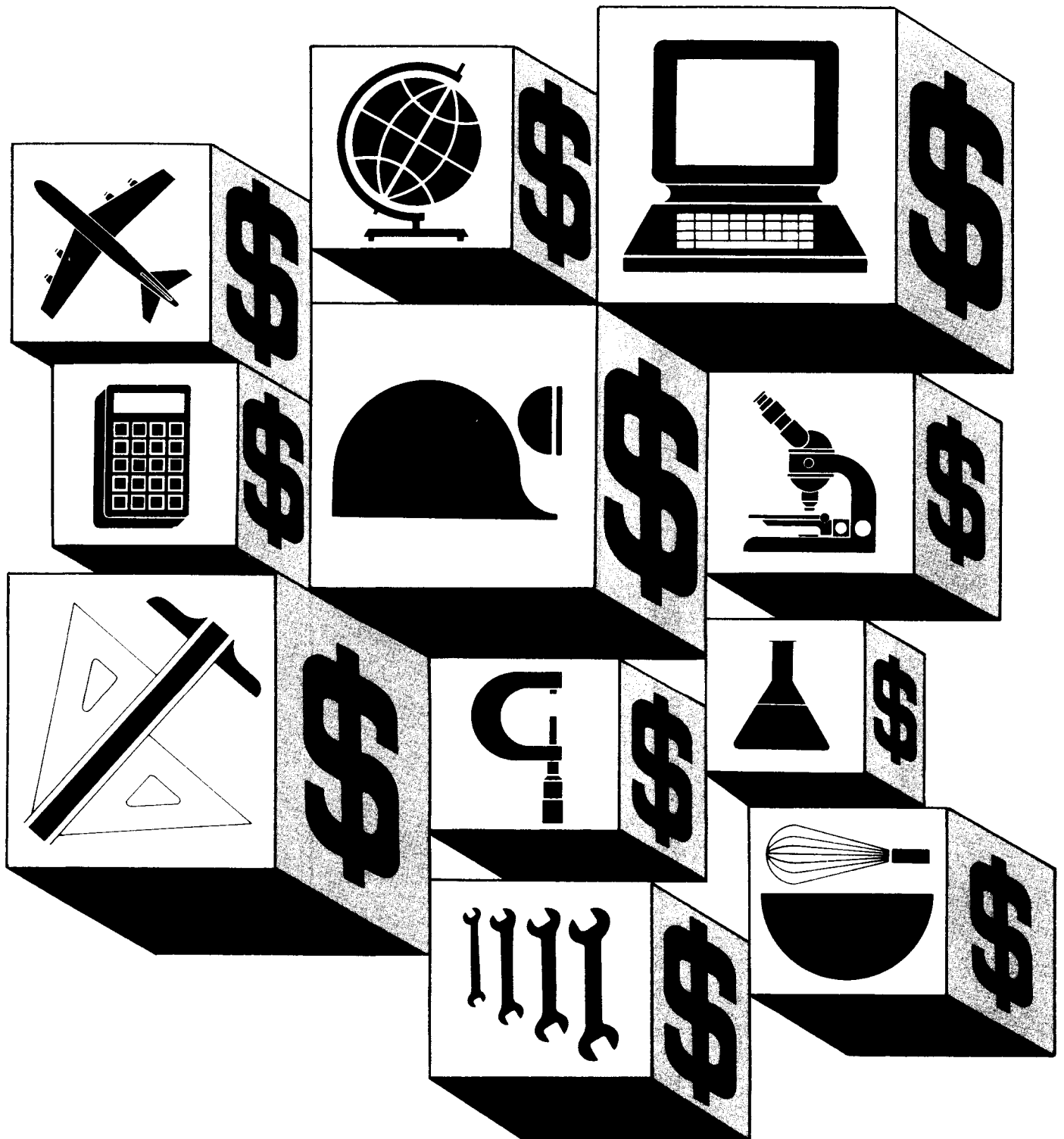




# EMPLOYMENT AND EARNINGS

In this issue: State and area annual averages  
Area definitions

U.S. Department of Labor  
Bureau of Labor Statistics  
May 1990





**U.S. DEPARTMENT OF LABOR**

Elizabeth Dole, Secretary

**BUREAU OF LABOR STATISTICS**

Janet L. Norwood, *Commissioner*

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**Calendar of Features**

In addition to the monthly data appearing regularly in *Employment and Earnings*, special features appear in most of the issues as shown below.

**Household data**

Annual averages	Jan.
Union affiliation	Jan.
Earnings by detailed occupation	Jan.
Revised seasonally adjusted series	Jan. Feb.
Quarterly averages: Seasonally adjusted data, persons not in labor force, persons of Hispanic origin, Vietnam-era veterans and nonveterans, family relationship data, weekly earnings data, and metropolitan-nonmetropolitan and poverty-nonpoverty area data	Jan. Apr. July. Oct.

**Establishment data**

National annual averages:	
Industry divisions (preliminary)	Jan.
Industry detail (final)	Mar.
Women employees (final)	Mar.
National data revised to reflect new benchmarks and new seasonal adjustment factors	June <sup>1</sup>
Revised historical national data	Supplement <sup>2</sup>
State and area annual averages	May
Area definition	May

**State and area labor force data**

Area	May
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# Employment and Earnings

Vol. 37 No. 5 May 1990

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Editors: Gloria Peterson Green, Rosalie K. Epstein

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# Employment and Unemployment Developments, April 1990

Unemployment edged up in April and the number of payroll jobs was about unchanged. The overall jobless rate of 5.3 percent and the civilian worker rate of 5.4 percent were both up by 0.2 percentage point from the previous month but remained within the narrow range that has prevailed for the past year and a half.

Payroll employment, as measured by the survey of non-farm business establishments, was virtually unchanged at 110.5 million in April, after seasonal adjustment, despite the addition of 80,000 temporary census workers. Total civilian employment, as measured by the survey of households, fell slightly to a seasonally adjusted level of 118.1 million.

## Unemployment

Both the number of unemployed persons and the civilian worker unemployment rate edged up in April, reaching 6.8 million and 5.4 percent, respectively. Most of the increased joblessness occurred among 20–24 year-olds. Among the major worker groups, the unemployment rate for adult men rose 0.3 percentage point to 4.8 percent, as did the rate for whites. Jobless rates for adult women (4.8 percent), teenagers (14.7 percent), blacks (10.4 percent), and Hispanics (8.0 percent) were little changed over the month. (See tables A-33, A-34, and A-38.)

Both the mean and median duration of unemployment, at 12.1 and 5.0 weeks, respectively, were about unchanged in April. The number working part time for economic reasons—often referred to as underemployed workers—was also about unchanged, at 4.9 million. (See tables A-40 and A-35.)

## Civilian employment and the labor force

Total civilian employment declined slightly in April to a seasonally adjusted level of 118.1 million. As a result, the proportion of the working-age population that is employed (the employment-population ratio) edged down to 62.9 percent in April, the same as a year earlier. (See table A-33.)

The civilian labor force, 124.9 million, and the labor force participation rate, 66.5 percent, were little changed over the month. Over the past year, the labor force has expanded by only 1.2 million, with adult women accounting for three-fourths of the gain. (See table A-33.)

## Industry payroll employment

Total nonfarm employment, at 110.5 million in April, was little changed for the second consecutive month. In the goods-producing sector, employment fell by 115,000, after seasonal adjustment. Service sector jobs rose by 180,000, but nearly half of the increase occurred in Federal Government, reflecting the additional hiring of temporary workers to assist with the 1990 census. Excluding the Federal Government, job growth has averaged 175,000 a month so far in 1990, down slightly from the pace of 1989. (See table B-4.)

Construction employment fell by 100,000, after seasonal adjustment. After large fluctuations in seasonally adjusted employment, reflecting a winter marked by unusual weather, the April count of construction jobs was about the same as that recorded last fall. Manufacturing employment showed further weakness; the decline was concentrated in the durable goods component, with the largest job loss occurring in the machinery industry. In nondurable goods, an increase of nearly 10,000 in apparel reflected the return from March layoffs. Factory jobs have decreased by 280,000 over the past 13 months. Mining employment increased slightly in April; since the beginning of 1989, mining jobs have risen by 45,000, mostly in oil and gas extraction.

In the service-producing sector, the number of government employees increased by 130,000, as an estimated 80,000 temporary census workers were added to the payrolls, bringing the total hired thus far to nearly 200,000. Elsewhere, job gains were quite modest. Employment in retail trade and in transportation and public utilities was unchanged. Within the finance, insurance, and real estate industry, a small gain in insurance was offset by a decline in real estate. After strong growth in the first quarter, employment in the services industry was about unchanged overall, even though the health services component added another 45,000 jobs.

## Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls was unchanged in April at 34.6 hours, seasonally adjusted. In manufacturing, the workweek declined 0.2 hour to 40.6 hours, and factory overtime also fell 0.2 hour to 3.5 hours. (See table C-5.)

The index of aggregate weekly hours of private production or nonsupervisory workers was about unchanged in April at 130.2 (1977=100), after seasonal adjustment. The index for manufacturing declined by 0.5 percent to 93.9, and the construction index fell 4.6 percent to 139.9. (See table-6.)

supervisory workers on private nonfarm payrolls rose 0.3 percent in April, on a seasonally adjusted basis. Prior to seasonal adjustment, average hourly earnings rose 4 cents to \$9.97 and average weekly earnings advanced \$2.38 to \$343.97. Over the year, average hourly earnings rose 3.6 percent and weekly earnings were up 2.7 percent. (See tables C-1 and C-7.)

**Hourly and weekly earnings**

Both hourly and weekly earnings of production or non-

**Note on temporary census workers**

The hiring of temporary workers for the 1990 decennial census affects current levels of Federal Government employment and higher aggregates. Estimates of these workers are 22,000, 27,000, 117,000, and 195,000 in January, February, March, and April 1990, respectively. Preliminary employment estimates ("B" tables) that include these workers may be subject to larger than normal revisions.

<b>Scheduled Release Dates</b>			
Employment and unemployment data are scheduled for initial release on the following dates:			
<i>Reference month</i>	<i>Release date</i>	<i>Reference month</i>	<i>Release date</i>
May	June 1	August	September 7
June	July 6	September	October 5
July	August 3	October	November 2



# New Seasonal Adjustment Factors for the Establishment Data Series

\*Fred R. Cronkhite

In June 1989, the Bureau of Labor Statistics initiated the practice of computing and publishing projected factors twice a year for use in seasonally adjusting establishment-based employment, hours, and earnings data. This schedule has been affected by the upcoming incorporation of the 1987 Standard Industrial Classification codes into national establishment-based data. Thus, in this issue of *Employment and Earnings*, seasonal adjustment factors are provided only for the 4-month period April–July 1990. This article provides details on the alteration in schedule and also describes a new moving-holiday adjustment being used for most of the average weekly hours series and the manufacturing overtime hours series.

BLS is currently engaged in the revision of the establishment data to reflect both the March 1989 benchmark levels and the 1987 Standard Industrial Classification (SIC) codes. This dual revision will add 3 months to the process of adjusting establishment data to new benchmark levels.

The April–July 1990 factors published in this issue reflect March 1988 benchmark levels and the 1972 SIC structure. Seasonal adjustment factors for the period August 1990 through April 1991 will be published in the September 1990 issue along with the release of March 1989 benchmark levels based on the new SIC structure. Factors for the 6-month period May–October 1991 will appear in the June 1991 issue, reestablishing the practice of publishing 6 months of factors. Historical seasonally adjusted data will continue to be revised and published once each year, coincident with the introduction of new benchmarks.

With the publication of April–July factors, a new moving-holiday extension of X-11 ARIMA is used to seasonally adjust the average weekly hours series and the manufacturing overtime hours series. Most holidays affect economic data in a way sufficiently consistent from year to year to allow the standard X-11 assumptions about seasonality to work reasonably well. Easter, however, can occur anywhere from March 22 to April 25 and is the principal example of a potential source of the seasonal or calendar effects generally called “moving-holiday effects” in economic series. Labor Day also causes aberrations in the data when it occurs during the survey reference period. When these effects are present and not controlled for, they tend to confound seasonal component estimation for the affected month or months.

While the payroll employment and earnings series are not significantly affected by the Easter period, the average weekly hours series for retail trade and most manufacturing industries exhibit significant, well-defined effects in the April data related to the timing of Easter. In manufacturing industries, for example, many workers take some hours off without pay during the workdays around Easter. In years in which the week before or after Easter falls within the April payroll reference period, average weekly hours tend to decrease substantially, while in the other years the series are unaffected. The standard X-11 method averages the hours movements for years with and without the Easter effect and produces April seasonal adjustment factors that usually do not adjust very well for either type of behavior. The new BLS moving-holiday extension provides a means of averaging the different types of behavior separately and allowing the differences to be reflected in the final seasonal factors.

The seasonal adjustment factors provided in this issue were derived using data through March 1990. The factors for all published series are shown in tables 1 through 6. For a few series characterized by a small seasonal component relative to the trend-cycle and/or irregular components, seasonally adjusted data are not published. These series are identified in tables 2, 4, and 6.

Seasonal adjustment factors for all establishment-based series are computed using the X-11 ARIMA procedure. A general description of this procedure and the moving-holiday adjustment appears in the January 1990 issue of this publication in the article “Revision of Seasonally Adjusted Labor Force Series.”

Seasonal adjustment factors are computed and applied to the component levels, which, for published series, are generally at the 2-digit industry level in manufacturing and at the major division level elsewhere. Seasonally adjusted totals are obtained either by arithmetic aggregation or by taking a weighted average of the seasonally adjusted data for the component series.

\* Fred R. Cronkhite is Chief of the Branch of National Benchmarks in the Division of Monthly Industry Employment Statistics, Bureau of Labor Statistics.

**Table 1. Seasonal adjustment factors for employees on nonagricultural payrolls by industry**

Industry	1990			
	Apr.	May	June	July
<b>Total<sup>1</sup></b>				
<b>Mining</b> .....	98.9	99.7	100.5	101.0
Oil and gas extraction .....	98.6	99.0	99.9	100.7
<b>Construction</b> .....	97.1	100.8	103.9	105.9
General building contractors .....	96.5	99.7	103.3	105.2
<b>Manufacturing<sup>1</sup></b>				
<b>Durable goods<sup>1</sup></b>				
Lumber and wood products .....	98.2	99.8	102.2	102.5
Furniture and fixtures .....	100.1	99.6	99.8	98.1
Stone, clay, and glass products <sup>2</sup> .....	99.7	100.9	102.1	101.6
Primary metal industries .....	100.1	100.0	100.6	98.9
Blast furnaces and basic steel products .....	99.7	99.8	100.6	100.6
Fabricated metal products .....	99.7	99.9	100.6	99.0
Machinery, except electrical .....	100.2	100.2	100.5	99.6
Electrical and electronic equipment .....	99.6	99.5	100.1	99.5
Transportation equipment .....	100.4	100.6	100.5	98.8
Motor vehicles and equipment .....	100.9	101.3	101.3	97.5
Instruments and related products .....	99.8	99.8	100.5	100.1
Miscellaneous manufacturing .....	99.9	99.8	100.7	97.7
<b>Nondurable goods<sup>1</sup></b>				
Food and kindred products .....	96.6	97.4	100.2	102.4
Tobacco manufactures .....	94.8	92.7	93.6	93.7
Textile mill products .....	99.8	100.0	100.6	98.5
Apparel and other textile products .....	100.2	100.3	100.9	97.0
Paper and allied products .....	99.4	99.7	101.0	100.4
Printing and publishing .....	100.1	99.9	100.2	99.8
Chemicals and allied products .....	99.7	99.9	100.8	100.6
Petroleum and coal products .....	99.2	100.6	102.0	102.2
Rubber and miscellaneous plastics products .....	100.1	100.2	100.7	98.9
Leather and leather products .....	99.5	100.1	101.5	95.8
<b>Transportation and public utilities<sup>1</sup></b>				
Transportation .....	99.4	100.1	100.7	99.5
Communication and public utilities .....	99.6	99.9	100.6	101.0
<b>Wholesale trade<sup>1</sup></b>				
Durable goods .....	99.8	100.0	100.5	100.5
Nondurable goods .....	99.6	99.9	100.7	100.7
<b>Retail trade</b> .....	98.9	100.0	100.9	100.5
General merchandise stores .....	96.6	97.1	97.7	97.6
Food stores .....	98.8	99.4	100.3	100.4
Automotive dealers and service stations .....	99.6	100.2	100.9	101.2
Eating and drinking places .....	99.7	101.8	103.3	102.5
<b>Finance, insurance, and real estate<sup>1</sup></b>				
Finance .....	99.6	99.8	100.6	100.9
Insurance .....	99.9	100.0	100.3	100.5
Real estate .....	98.9	100.4	103.1	104.0
<b>Services</b> .....	100.2	100.4	100.9	101.0
Business services .....	99.3	99.8	100.6	100.6
Health services .....	99.8	99.8	100.4	100.5
<b>Government<sup>1</sup></b>				
Federal .....	99.8	100.3	101.0	101.3
State .....	102.7	101.5	97.1	94.7
Local .....	102.2	102.6	101.5	92.9

<sup>1</sup> Seasonally adjusted data are derived by aggregation of the component series.

<sup>2</sup> No ARIMA models were identified to extend the

unadjusted series for one year. Factors shown are projected using X-11 without the ARIMA option.

**Table 2. Seasonal adjustment factors for women employees on nonagricultural payrolls by industry**

Industry	1990			
	Apr.	May	June	July
<b>Total<sup>1</sup></b>				
<b>Mining</b> .....	99.9	99.7	100.6	101.3
<b>Construction</b> .....	99.0	100.1	101.3	102.0
<b>Manufacturing<sup>1</sup></b>				
<b>Durable goods<sup>1</sup></b>				
Lumber and wood products .....	99.4	100.3	102.2	101.2
Furniture and fixtures .....	100.3	100.0	99.6	97.9
Stone, clay, and glass products .....	99.8	100.2	101.4	100.3
Primary metal industries .....	100.1	100.0	101.2	98.5
Fabricated metal products .....	99.8	100.2	100.7	98.7
Machinery, except electrical <sup>2</sup> .....	100.2	100.3	100.7	99.9
Electrical and electronic equipment .....	99.5	99.4	100.0	99.1
Transportation equipment .....	100.1	100.1	100.4	99.2
Instruments and related products .....	99.8	99.9	100.5	99.5
Miscellaneous manufacturing .....	99.7	99.8	100.8	97.1
<b>Nondurable goods<sup>1</sup></b>				
Food and kindred products <sup>2</sup> .....	94.8	95.8	99.2	103.2
Tobacco manufactures .....	91.9	90.6	91.0	89.4
Textile mill products .....	99.8	100.1	100.7	98.7
Apparel and other textile products .....	100.4	100.5	100.8	96.5
Paper and allied products .....	99.0	99.6	101.2	100.8
Printing and publishing .....	100.3	100.1	100.3	99.9
Chemicals and allied products .....	99.4	99.7	101.2	100.8
Petroleum and coal products .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Rubber and miscellaneous plastics products .....	99.9	100.2	100.7	98.4
Leather and leather products .....	99.2	100.1	101.2	96.1
<b>Transportation and public utilities</b> .....	99.9	100.3	100.6	99.0
<b>Wholesale trade</b> .....	99.5	99.7	100.3	100.0
<b>Retail trade</b> .....	98.4	99.7	100.6	100.0
<b>Finance, insurance, and real estate</b> .....	99.7	99.9	100.7	100.8
<b>Services</b> .....	100.4	100.2	100.4	100.1
<b>Government<sup>1</sup></b>				
Federal .....	99.8	100.3	101.1	101.4
State .....	103.0	101.5	96.7	93.8
Local .....	103.5	103.8	101.2	88.6

<sup>1</sup> Seasonally adjusted data are derived by aggregation of the component series.

<sup>2</sup> No ARIMA models were identified to extend the unadjusted series for one year. Factors shown are projected using X-11 without the ARIMA option.

<sup>3</sup> Seasonal adjustment factors are not computed because the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

**Table 3. Seasonal adjustment factors for production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry**

Industry	1990			
	Apr.	May	June	July
<b>Total private<sup>2</sup></b>				
<b>Mining</b> .....	98.7	99.7	100.6	101.0
<b>Construction</b> .....	96.5	100.9	104.7	107.1
<b>Manufacturing<sup>2</sup></b>				
<b>Durable goods<sup>2</sup></b>				
Lumber and wood products .....	98.0	99.8	102.5	102.9
Furniture and fixtures .....	99.9	99.4	99.6	97.7
Stone, clay, and glass products <sup>3</sup> .....	99.7	101.2	102.5	102.0
Primary metal industries .....	100.1	100.0	100.7	98.5
Blast furnaces and basic steel products .....	99.8	99.9	100.7	100.6
Fabricated metal products .....	99.6	99.9	100.6	98.7
Machinery, except electrical .....	100.4	100.3	100.4	99.0
Electrical and electronic equipment .....	99.5	99.3	99.9	98.8
Transportation equipment .....	100.8	101.1	100.8	97.6
Motor vehicles and equipment .....	101.2	101.7	101.5	96.5
Instruments and related products .....	99.9	100.0	100.6	99.5
Miscellaneous manufacturing .....	99.9	99.8	101.0	97.1
<b>Nondurable goods<sup>2</sup></b>				
Food and kindred products .....	95.5	96.4	100.0	103.0
Tobacco manufactures .....	93.2	90.5	91.5	91.3
Textile mill products .....	99.8	100.0	100.6	98.4
Apparel and other textile products .....	100.3	100.4	101.0	96.5
Paper and allied products .....	99.3	99.5	101.1	100.4
Printing and publishing .....	100.4	100.1	100.1	99.4
Chemicals and allied products .....	99.7	99.9	101.1	100.5
Petroleum and coal products .....	98.8	100.9	102.6	102.7
Rubber and miscellaneous plastics products .....	100.3	100.2	100.7	98.5
Leather and leather products .....	99.3	100.3	101.5	95.5
<b>Transportation and public utilities</b> .....	99.4	100.0	100.7	99.9
<b>Wholesale trade<sup>3</sup></b> .....	99.6	100.0	100.7	100.8
<b>Retail trade</b> .....	98.7	100.0	100.9	100.6
<b>Finance, insurance, and real estate<sup>3</sup></b> .....	99.5	99.9	101.3	101.8
<b>Services</b> .....	100.2	100.4	100.9	101.0

<sup>1</sup> Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

<sup>2</sup> Seasonally adjusted data are derived by aggregation of the component series.

<sup>3</sup> No ARIMA models were identified to extend the unadjusted series for one year. Factors shown are projected using X-11 without the ARIMA option.

**Table 4. Seasonal adjustment factors for average weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry**

Industry	1990			
	Apr.	May	June	July
<b>Total private<sup>2</sup></b>				
<b>Mining<sup>3</sup></b> .....	(*)	(*)	(*)	(*)
<b>Construction<sup>3</sup></b> .....	(*)	(*)	(*)	(*)
<b>Manufacturing<sup>2</sup></b>				
<b>Durable goods<sup>2</sup></b>				
Lumber and wood products .....	99.8	100.6	101.3	99.6
Furniture and fixtures .....	97.6	98.8	99.8	98.2
Stone, clay, and glass products .....	100.0	100.8	100.8	100.4
Primary metal industries <sup>3, 5</sup> .....	99.8	99.8	100.2	99.0
Blast furnaces and basic steel products <sup>3</sup> .....	100.0	99.9	100.9	99.8
Fabricated metal products .....	97.1	99.7	100.4	98.1
Machinery, except electrical .....	97.3	99.5	100.3	98.8
Electrical and electronic equipment .....	97.1	99.2	100.1	98.4
Transportation equipment .....	96.6	100.5	100.3	97.8
Motor vehicles and equipment .....	98.6	100.8	100.3	96.8
Instruments and related products .....	97.9	99.2	100.0	98.8
Miscellaneous manufacturing .....	97.4	99.7	100.1	98.2
<b>Nondurable goods<sup>2</sup></b>				
Food and kindred products .....	97.9	99.6	100.1	100.2
Tobacco manufactures .....	(*)	(*)	(*)	(*)
Textile mill products <sup>5</sup> .....	97.2	99.6	100.5	98.7
Apparel and other textile products <sup>5</sup> .....	96.8	99.8	100.8	99.2
Paper and allied products <sup>5</sup> .....	98.1	99.6	99.7	99.2
Printing and publishing .....	98.9	99.1	98.9	99.3
Chemicals and allied products <sup>5</sup> .....	99.9	99.5	100.1	99.3
Petroleum and coal products .....	(*)	(*)	(*)	(*)
Rubber and miscellaneous plastics products .....	97.8	99.8	100.2	98.5
Leather and leather products .....	97.3	100.5	102.0	100.0
<b>Transportation and public utilities<sup>3, 5</sup></b> .....	99.6	99.7	100.4	101.1
<b>Wholesale trade<sup>3</sup></b> .....	99.8	99.8	100.2	100.6
<b>Retail trade<sup>6</sup></b> .....	99.9	99.6	101.1	102.5
<b>Finance, insurance, and real estate<sup>3</sup></b> .....	(*)	(*)	(*)	(*)
<b>Services<sup>3</sup></b> .....	100.0	99.5	100.4	101.2

<sup>1</sup> Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

<sup>2</sup> Seasonally adjusted data are derived by aggregation of the component series.

<sup>3</sup> No moving-holiday adjustment was done for April because there was no evidence of significant effects associated with the relative timing of Easter

and the reference period of the payroll survey.

<sup>4</sup> Seasonal adjustment factors are not computed because the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

<sup>5</sup> No ARIMA models were identified to extend the unadjusted series for one year. Factors shown are projected using X-11 without the ARIMA option.

**Table 5. Seasonal adjustment factors for average weekly overtime hours of production workers on manufacturing payrolls**

Industry group	1990			
	Apr.	May	June	July
<b>Manufacturing<sup>1</sup></b>				
<b>Durable goods<sup>2</sup></b> .....	79.5	95.8	100.1	94.4
<b>Nondurable goods<sup>2</sup></b> .....	85.1	94.2	97.9	99.0

<sup>1</sup> Seasonally adjusted data are derived by aggregation of the component series.

<sup>2</sup> Moving-holiday adjustment was done for April

because there was evidence of significant effects associated with the relative timing of Easter and the reference period of the payroll survey.

**Table 6. Seasonal adjustment factors for average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls by industry**

Industry division	1990			
	Apr.	May	June	July
<b>Total private<sup>2</sup></b>				
<b>Mining</b> .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
<b>Construction</b> .....	99.9	99.7	99.3	99.5
<b>Manufacturing</b> .....	100.1	99.9	99.9	99.9
<b>Excluding overtime</b> .....	100.2	100.1	99.9	100.0
<b>Transportation and public utilities</b> .....	100.0	99.6	99.5	99.9
<b>Wholesale trade<sup>4</sup></b> .....	100.1	100.0	99.7	99.9
<b>Retail trade</b> .....	100.3	99.9	99.5	99.3
<b>Finance, insurance, and real estate<sup>4</sup></b> .....	100.8	100.2	99.3	99.3
<b>Services<sup>4</sup></b> .....	100.3	99.8	99.0	98.5

<sup>1</sup> Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

<sup>2</sup> Seasonally adjusted data are derived by aggregation of the component series.

<sup>3</sup> Seasonal adjustment factors are not computed

because the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

<sup>4</sup> No ARIMA models were identified to extend the unadjusted series for one year. Factors shown are projected using X-11 without the ARIMA option.

**HOUSEHOLD DATA  
HISTORICAL**

**A-1. Employment status of the noninstitutional population 16 years and over, 1956 to date**

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
<b>Annual averages</b>												
1956 .....	112,919	68,517	60.7	65,764	1,965	63,799	6,283	57,514	2,750	4.0	44,402	
1957 .....	114,213	68,877	60.3	66,019	1,948	64,071	5,947	58,123	2,859	4.2	45,336	
1958 .....	115,574	69,486	60.1	64,883	1,847	63,036	5,586	57,450	4,602	6.6	46,088	
1959 .....	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960	
1960 <sup>1</sup> .....	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617	
1961 .....	120,671	72,359	60.0	67,646	1,900	65,746	5,200	60,546	4,714	6.5	48,312	
1962 <sup>1</sup> .....	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539	
1963 .....	124,422	73,839	59.3	69,768	2,006	67,762	4,687	63,076	4,070	5.5	50,583	
1964 .....	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,786	5.0	51,394	
1965 .....	128,459	76,401	59.5	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058	
1966 .....	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915	2,875	3.7	52,288	
1967 .....	132,092	79,565	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527	
1968 .....	134,281	80,990	60.3	78,173	2,253	75,920	3,817	72,103	2,817	3.5	53,291	
1969 .....	136,573	82,972	60.8	80,140	2,238	77,902	3,606	74,296	2,832	3.4	53,602	
1970 .....	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315	
1971 .....	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834	
1972 <sup>1</sup> .....	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 <sup>1</sup> .....	148,870	91,203	61.3	86,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667	
1974 .....	151,841	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,156	5.5	58,171	
1975 .....	154,831	95,453	61.6	87,524	1,678	85,846	3,408	82,438	7,929	8.3	59,377	
1976 .....	157,818	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991	
1977 .....	160,689	100,665	62.6	93,673	1,656	92,017	3,283	88,734	6,991	6.9	60,025	
1978 <sup>1</sup> .....	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659	
1979 .....	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900	
1980 .....	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,806	
1981 .....	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,460	
1982 .....	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067	
1983 .....	175,891	113,226	64.4	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665	
1984 .....	178,080	115,241	64.7	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839	
1985 .....	179,912	117,167	65.1	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744	
1986 <sup>1</sup> .....	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752	
1987 .....	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888	
1988 .....	186,322	123,378	66.2	116,677	1,709	114,968	3,169	111,800	6,701	5.4	62,944	
1989 .....	188,081	125,557	66.8	119,030	1,688	117,342	3,199	114,142	6,528	5.2	62,523	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1989:</b>												
April .....	187,708	125,299	66.8	118,768	1,684	117,084	3,144	113,940	6,531	5.2	62,409	
May .....	187,854	125,224	66.7	118,805	1,673	117,132	3,137	113,995	6,419	5.1	62,630	
June .....	187,995	125,777	66.9	119,208	1,666	117,542	3,138	114,404	6,569	5.2	62,218	
July .....	188,149	125,679	66.8	119,102	1,666	117,436	3,217	114,219	6,577	5.2	62,470	
August .....	188,286	125,758	66.8	119,238	1,688	117,550	3,275	114,275	6,520	5.2	62,528	
September .....	188,428	125,725	66.7	119,121	1,702	117,419	3,219	114,200	6,604	5.3	62,703	
October .....	188,580	125,857	66.7	119,294	1,709	117,585	3,197	114,388	6,563	5.2	62,723	
November .....	188,721	126,192	66.9	119,540	1,704	117,836	3,160	114,676	6,652	5.3	62,529	
December .....	188,865	126,246	66.8	119,588	1,700	117,888	3,197	114,691	6,658	5.3	62,619	
<b>1990:</b>												
January .....	188,990	126,094	66.7	119,560	1,697	117,863	3,134	114,728	6,535	5.2	62,896	
February .....	189,090	126,308	66.8	119,713	1,678	118,035	3,079	114,957	6,594	5.2	62,782	
March .....	189,198	126,498	66.9	120,003	1,669	118,334	3,200	115,133	6,495	5.1	62,700	
April .....	189,326	126,543	66.8	119,773	1,657	118,116	3,133	114,983	6,770	5.3	62,783	

<sup>1</sup> Not strictly comparable with prior years. For an explanation, see "Historical Comparability" under the Household Data section of the Explanatory Notes.

<sup>2</sup> The population and Armed Forces figures are not adjusted for

seasonal variation.

NOTE: Revisions of seasonally adjusted monthly and quarterly data (shown in tables A-1 through A-3 and A-32 through A-53) for the most recent 5-year period are made at the end of each calendar year.

**HOUSEHOLD DATA  
HISTORICAL**

**A-2. Employment status of the noninstitutional population 16 years and over by sex, 1979 to date**

(Numbers in thousands)

Sex, year, and month	Noninstitutional population	Labor force									Not in labor force	
		Number	Percent of population	Employed						Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force		
						Total	Agriculture	Nonagricultural industries				
<b>Annual averages</b>												
<b>MEN</b>												
1979 .....	79,509	62,215	78.2	59,096	1,489	57,607	2,686	54,921	3,120	5.0	17,293	
1980 .....	80,877	62,932	77.8	58,665	1,479	57,186	2,709	54,477	4,267	6.8	17,945	
1981 .....	82,023	63,486	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537	
1982 .....	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,073	
1983 .....	84,064	64,580	78.8	58,320	1,533	56,787	2,704	54,083	6,260	9.7	19,484	
1984 .....	85,156	65,386	76.8	60,642	1,551	59,091	2,668	56,423	4,744	7.3	19,771	
1985 .....	86,025	65,967	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,058	
1986 <sup>1</sup> .....	87,349	66,973	76.7	62,443	1,551	60,892	2,511	58,381	4,530	6.8	20,376	
1987 .....	88,476	67,784	76.6	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,692	
1988 .....	89,404	68,474	76.6	64,820	1,547	63,273	2,493	60,780	3,655	5.3	20,930	
1989 .....	90,283	69,360	76.8	65,835	1,520	64,315	2,513	61,802	3,525	5.1	20,923	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1989:</b>												
April .....	90,094	69,293	76.9	65,727	1,521	64,206	2,460	61,746	3,566	5.1	20,801	
May .....	90,167	69,142	76.7	65,713	1,511	64,202	2,465	61,737	3,429	5.0	21,025	
June .....	90,237	69,542	77.1	66,078	1,501	64,577	2,480	62,097	3,464	5.0	20,695	
July .....	90,315	69,366	76.8	65,839	1,499	64,440	2,539	61,901	3,427	4.9	20,949	
August .....	90,384	69,404	76.8	65,919	1,519	64,400	2,592	61,808	3,485	5.0	20,980	
September .....	90,456	69,360	76.7	65,681	1,531	64,150	2,520	61,630	3,679	5.3	21,096	
October .....	90,535	69,599	76.9	66,046	1,533	64,513	2,513	62,000	3,553	5.1	20,936	
November .....	90,606	69,635	76.9	66,011	1,529	64,482	2,477	62,005	3,624	5.2	20,971	
December .....	90,678	69,725	76.9	66,143	1,525	64,618	2,535	62,083	3,582	5.1	20,953	
<b>1990:</b>												
January .....	90,772	69,539	76.6	65,943	1,523	64,420	2,501	61,918	3,597	5.2	21,233	
February .....	90,822	69,639	76.7	66,108	1,506	64,602	2,461	62,141	3,530	5.1	21,183	
March .....	90,874	69,712	76.7	66,208	1,497	64,711	2,499	62,212	3,505	5.0	21,162	
April .....	90,942	69,779	76.7	66,043	1,499	64,544	2,415	62,129	3,735	5.4	21,163	
<b>Annual averages</b>												
<b>WOMEN</b>												
1979 .....	86,951	44,343	51.0	41,325	108	41,217	661	40,556	3,018	6.8	42,608	
1980 .....	88,472	45,611	51.6	42,241	124	42,117	656	41,461	3,370	7.4	42,861	
1981 .....	89,751	48,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922	
1982 .....	90,887	47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,993	
1983 .....	91,827	48,646	53.0	44,190	143	44,047	680	43,367	4,457	9.2	43,181	
1984 .....	92,924	49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,068	
1985 .....	93,886	51,200	54.5	47,409	150	47,259	644	46,615	3,791	7.4	42,686	
1986 <sup>1</sup> .....	94,944	52,568	55.4	48,861	155	48,706	652	48,054	3,707	7.1	42,376	
1987 .....	96,013	53,818	58.1	50,494	160	50,334	666	49,668	3,324	6.2	42,195	
1988 .....	96,918	54,904	56.6	51,858	162	51,696	676	51,020	3,046	5.5	42,014	
1989 .....	97,798	56,198	57.5	53,195	168	53,027	687	52,341	3,003	5.3	41,601	
<b>Monthly data, seasonally adjusted<sup>2</sup></b>												
<b>1989:</b>												
April .....	97,814	56,006	57.4	53,041	163	52,878	684	52,194	2,965	5.3	41,608	
May .....	97,887	56,082	57.4	53,092	162	52,930	672	52,258	2,990	5.3	41,605	
June .....	97,758	56,235	57.5	53,130	165	52,965	658	52,307	3,105	5.5	41,523	
July .....	97,834	56,313	57.6	53,163	167	52,996	678	52,318	3,150	5.6	41,521	
August .....	97,902	56,354	57.8	53,319	189	53,150	683	52,467	3,035	5.4	41,548	
September .....	97,972	56,365	57.5	53,440	171	53,269	699	52,570	2,925	5.2	41,607	
October .....	98,045	56,258	57.4	53,248	176	53,072	684	52,388	3,010	5.4	41,787	
November .....	98,115	56,557	57.6	53,529	175	53,354	683	52,671	3,028	5.4	41,558	
December .....	98,187	56,521	57.6	53,445	175	53,270	662	52,608	3,076	5.4	41,666	
<b>1990:</b>												
January .....	98,218	56,555	57.6	53,617	174	53,443	633	52,810	2,938	5.2	41,663	
February .....	98,268	56,669	57.7	53,605	172	53,433	618	52,815	3,064	5.4	41,599	
March .....	98,324	56,785	57.8	53,795	172	53,623	702	52,921	2,990	5.3	41,539	
April .....	98,383	56,764	57.7	53,729	158	53,571	718	52,853	3,034	5.3	41,619	

<sup>1</sup> Not strictly comparable with prior years. For an explanation, see "Historical Comparability" under the Household Data section of the Explanatory Notes.

<sup>2</sup> The population and Armed Forces figures are not adjusted for seasonal variation.



**A-3. Employment status of the civilian noninstitutional population 16 years and over, 1956 to date**

(Numbers in thousands)

Year and month	Civilian noninstitutional population	Civilian labor force				Unemployment rates		
		Total	Percent of population	Employed	Unemployed	Total	Men	Women
<b>Annual averages</b>								
1956 .....	110,954	66,552	60.0	63,799	2,750	4.1	3.8	4.8
1957 .....	112,265	66,929	59.6	64,071	2,859	4.3	4.1	4.7
1958 .....	113,727	67,639	59.5	63,036	4,602	6.8	6.8	6.8
1959 .....	115,329	68,369	59.3	64,630	3,740	5.5	5.2	5.9
1960 <sup>1</sup> .....	117,245	69,628	59.4	65,778	3,852	5.5	5.4	5.9
1961 .....	118,771	70,459	59.3	65,746	4,714	6.7	6.4	7.2
1962 <sup>1</sup> .....	120,153	70,614	58.8	66,702	3,911	5.5	5.2	6.2
1963 .....	122,416	71,833	58.7	67,762	4,070	5.7	5.2	6.5
1964 .....	124,485	73,091	58.7	69,305	3,786	5.2	4.6	6.2
1965 .....	126,513	74,455	58.9	71,088	3,366	4.5	4.0	5.5
1966 .....	128,058	75,770	59.2	72,895	2,875	3.8	3.2	4.8
1967 .....	129,874	77,347	59.6	74,372	2,975	3.8	3.1	5.2
1968 .....	132,028	78,737	59.6	75,920	2,817	3.6	2.9	4.8
1969 .....	134,335	80,734	60.1	77,902	2,832	3.5	2.8	4.7
1970 .....	137,085	82,771	60.4	78,678	4,093	4.9	4.4	5.9
1971 .....	140,216	84,382	60.2	79,367	5,016	5.9	5.3	6.9
1972 <sup>2</sup> .....	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 <sup>1</sup> .....	147,096	89,429	60.8	85,064	4,365	4.9	4.2	6.0
1974 .....	150,120	91,949	61.3	86,794	5,156	5.6	4.9	6.7
1975 .....	153,153	93,775	61.2	85,846	7,929	8.5	7.9	9.3
1976 .....	156,150	96,158	61.6	88,752	7,406	7.7	7.1	8.6
1977 .....	159,033	99,009	62.3	92,017	6,991	7.1	6.3	8.2
1978 <sup>1</sup> .....	161,910	102,251	63.2	96,048	6,202	6.1	5.3	7.2
1979 .....	164,863	104,962	63.7	98,824	6,137	5.8	5.1	6.8
1980 .....	167,745	106,940	63.8	99,303	7,637	7.1	6.9	7.4
1981 .....	170,130	108,670	63.9	100,397	8,273	7.6	7.4	7.9
1982 .....	172,271	110,204	64.0	99,526	10,678	9.7	9.9	9.4
1983 .....	174,215	111,550	64.0	100,834	10,717	9.6	9.9	9.2
1984 .....	176,383	113,544	64.4	105,005	8,539	7.5	7.4	7.6
1985 .....	178,206	115,461	64.8	107,150	8,312	7.2	7.0	7.4
1986 <sup>1</sup> .....	180,587	117,834	65.3	109,597	8,237	7.0	6.9	7.1
1987 .....	182,753	119,865	65.6	112,440	7,425	6.2	6.2	6.2
1988 .....	184,613	121,669	65.9	114,968	6,701	5.5	5.5	5.6
1989 .....	186,393	123,869	66.5	117,342	6,528	5.3	5.2	5.4
<b>Monthly data, seasonally adjusted<sup>2</sup></b>								
<b>1989:</b>								
April .....	186,024	123,615	66.5	117,084	6,531	5.3	5.3	5.3
May .....	186,181	123,551	66.4	117,132	6,419	5.2	5.1	5.3
June .....	186,329	124,111	66.6	117,542	6,569	5.3	5.1	5.5
July .....	186,483	124,013	66.5	117,436	6,577	5.3	5.0	5.6
August .....	186,598	124,070	66.5	117,550	6,520	5.3	5.1	5.4
September .....	186,726	124,023	66.4	117,419	6,604	5.3	5.4	5.2
October .....	186,871	124,148	66.4	117,585	6,563	5.3	5.2	5.4
November .....	187,017	124,488	66.6	117,836	6,652	5.3	5.3	5.4
December .....	187,165	124,546	66.5	117,888	6,658	5.3	5.3	5.5
<b>1990:</b>								
January .....	187,293	124,397	66.4	117,863	6,535	5.3	5.3	5.2
February .....	187,412	124,630	66.5	118,035	6,594	5.3	5.2	5.4
March .....	187,529	124,829	66.6	118,334	6,495	5.2	5.1	5.3
April .....	187,669	124,886	66.5	118,116	6,770	5.4	5.5	5.4

<sup>1</sup> Not strictly comparable with prior years. For an explanation, see "Historical Comparability" under the Household Data section of the

Explanatory Notes.

<sup>2</sup> The population figures are not adjusted for seasonal variation.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-4. Employment status of the civilian noninstitutional population by age, sex, and race**

(Numbers in thousands)

Age, sex, and race	April 1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>TOTAL</b>											
16 years and over .....	187,669	123,816	66.0	117,359	6,457	5.2	63,853	26,636	9,005	3,816	24,395
16 to 19 years .....	13,852	7,051	50.9	6,072	978	13.9	6,802	394	5,665	37	707
16 to 17 years .....	6,598	2,669	40.5	2,215	455	17.0	3,929	92	3,441	11	385
18 to 19 years .....	7,254	4,381	60.4	3,858	523	11.9	2,873	302	2,223	26	322
20 to 24 years .....	17,806	13,615	76.5	12,375	1,241	9.1	4,191	1,434	2,049	96	613
25 to 54 years .....	105,166	87,770	83.5	84,026	3,744	4.3	17,396	11,584	1,253	1,561	2,998
25 to 34 years .....	42,811	35,797	83.6	33,951	1,846	5.2	7,014	4,760	875	376	1,003
25 to 29 years .....	20,935	17,465	83.4	16,510	955	5.5	3,470	2,272	573	143	482
30 to 34 years .....	21,876	18,332	83.8	17,441	891	4.9	3,544	2,487	302	233	521
35 to 44 years .....	37,071	31,652	85.4	30,432	1,220	3.9	5,419	3,692	284	520	923
35 to 39 years .....	19,768	16,793	85.0	16,123	670	4.0	2,975	2,092	175	232	476
40 to 44 years .....	17,303	14,859	85.9	14,309	550	3.7	2,445	1,601	109	288	447
45 to 54 years .....	25,284	20,321	80.4	19,644	677	3.3	4,963	3,132	95	665	1,071
45 to 49 years .....	13,834	11,420	82.6	11,018	402	3.5	2,414	1,519	82	313	500
50 to 54 years .....	11,449	8,900	77.7	8,626	275	3.1	2,549	1,613	13	351	572
55 to 64 years .....	21,213	11,727	55.3	11,346	381	3.3	9,486	4,390	29	889	4,178
55 to 59 years .....	10,537	6,999	66.4	6,759	241	3.4	3,537	1,890	18	459	1,170
60 to 64 years .....	10,676	4,728	44.3	4,587	140	3.0	5,948	2,499	11	430	3,008
65 years and over .....	29,632	3,653	12.3	3,540	113	3.1	25,979	8,835	10	1,234	15,900
65 to 69 years .....	10,141	2,202	21.7	2,131	70	3.2	7,939	2,797	-	290	4,853
70 to 74 years .....	7,893	960	12.2	933	28	2.9	6,933	2,353	5	240	4,335
75 years and over .....	11,597	491	4.2	476	15	3.0	11,106	3,685	5	705	6,712
<b>Men</b>											
16 years and over .....	89,443	67,659	75.6	63,993	3,666	5.4	21,784	537	4,374	2,172	14,702
16 to 19 years .....	6,957	3,680	52.9	3,145	535	14.5	3,277	26	2,838	22	390
16 to 17 years .....	3,357	1,388	41.3	1,144	243	17.5	1,970	11	1,748	10	200
18 to 19 years .....	3,599	2,292	63.7	2,001	291	12.7	1,307	15	1,090	11	191
20 to 24 years .....	8,645	7,173	83.0	6,485	688	9.6	1,472	38	1,041	61	331
25 to 54 years .....	51,487	48,043	93.3	45,910	2,133	4.4	3,445	234	488	1,058	1,665
25 to 34 years .....	21,064	19,799	94.0	18,748	1,051	5.3	1,265	74	378	269	544
25 to 29 years .....	10,266	9,591	93.4	9,046	545	5.7	675	40	265	99	271
30 to 34 years .....	10,798	10,208	94.5	9,702	506	5.0	590	34	113	170	273
35 to 44 years .....	18,163	17,169	94.5	16,509	659	3.8	995	82	84	338	490
35 to 39 years .....	9,700	9,213	95.0	8,855	358	3.9	487	39	53	160	235
40 to 44 years .....	8,463	7,956	94.0	7,654	301	3.8	507	42	31	178	255
45 to 54 years .....	12,260	11,075	90.3	10,653	422	3.8	1,185	78	26	451	631
45 to 49 years .....	6,725	6,135	91.2	5,888	247	4.0	591	36	24	218	312
50 to 54 years .....	5,535	4,940	89.3	4,765	175	3.6	594	41	2	232	319
55 to 64 years .....	9,996	6,682	66.8	6,433	248	3.7	3,314	76	-	542	2,696
55 to 59 years .....	5,012	3,935	78.5	3,785	149	3.8	1,077	43	-	281	753
60 to 64 years .....	4,984	2,747	55.1	2,648	99	3.6	2,237	33	-	261	1,943
65 years and over .....	12,359	2,082	16.8	2,019	63	3.0	10,277	163	5	489	9,620
65 to 69 years .....	4,599	1,212	26.3	1,175	37	3.1	3,387	35	-	178	3,175
70 to 74 years .....	3,464	581	16.8	562	20	3.4	2,883	50	2	120	2,711
75 years and over .....	4,296	289	6.7	283	6	2.2	4,006	78	4	191	3,733
<b>Women</b>											
16 years and over .....	98,225	56,157	57.2	53,366	2,790	5.0	42,069	26,100	4,632	1,645	9,693
16 to 19 years .....	6,896	3,371	48.9	2,927	444	13.2	3,525	368	2,826	15	316
16 to 17 years .....	3,241	1,282	39.6	1,070	212	16.5	1,959	80	1,693	-	185
18 to 19 years .....	3,655	2,089	57.1	1,857	232	11.1	1,566	288	1,133	14	131
20 to 24 years .....	9,161	6,442	70.3	5,890	553	8.6	2,719	1,395	1,008	35	281
25 to 54 years .....	53,679	39,727	74.0	38,116	1,611	4.1	13,951	11,350	765	503	1,333
25 to 34 years .....	21,747	15,999	73.6	15,203	795	5.0	5,749	4,686	497	107	459
25 to 29 years .....	10,669	7,874	73.8	7,464	411	5.2	2,795	2,232	307	44	212
30 to 34 years .....	11,078	8,124	73.3	7,739	385	4.7	2,954	2,454	190	63	248
35 to 44 years .....	18,908	14,483	76.6	13,923	561	3.9	4,425	3,610	199	182	433
35 to 39 years .....	10,068	7,580	75.3	7,268	312	4.1	2,487	2,052	122	72	241
40 to 44 years .....	8,840	6,903	78.1	6,654	248	3.6	1,937	1,558	77	110	192
45 to 54 years .....	13,024	9,246	71.0	8,991	255	2.8	3,778	3,054	69	214	441
45 to 49 years .....	7,109	5,286	74.4	5,130	155	2.9	1,823	1,483	58	95	188
50 to 54 years .....	5,915	3,960	67.0	3,861	99	2.5	1,955	1,572	11	119	253
55 to 64 years .....	11,217	5,046	45.0	4,913	133	2.6	6,171	4,314	2P	347	1,482
55 to 59 years .....	5,525	3,065	55.5	2,973	92	3.0	2,460	1,847	18	178	417
60 to 64 years .....	5,692	1,981	34.8	1,939	41	2.1	3,711	2,467	11	169	1,065
65 years and over .....	17,272	1,571	9.1	1,521	50	3.2	15,702	8,672	4	745	6,280
65 to 69 years .....	5,542	990	17.9	957	33	3.3	4,552	2,762	-	112	1,678
70 to 74 years .....	4,429	379	8.6	371	8	2.2	4,050	2,303	3	119	1,624
75 years and over .....	7,301	201	2.8	193	9	4.2	7,100	3,607	1	514	2,979

HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED

A-4. Employment status of the civilian noninstitutional population by age, sex, and race—Continued

(Numbers in thousands)

Age, sex, and race	April 1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>WHITE</b>											
16 years and over .....	160,170	106,460	66.5	101,564	4,895	4.6	53,710	22,972	6,719	2,865	21,154
16 to 19 years .....	11,164	6,097	54.6	5,318	779	12.8	5,067	310	4,182	25	550
16 to 17 years .....	5,295	2,359	44.6	1,989	370	15.7	2,935	71	2,534	11	320
18 to 19 years .....	5,869	3,738	63.7	3,329	408	10.9	2,132	240	1,647	14	231
20 to 24 years .....	14,688	11,529	78.5	10,675	854	7.4	3,159	1,100	1,597	57	405
25 to 54 years .....	89,203	75,121	84.2	72,292	2,830	3.8	14,082	9,679	914	1,148	2,341
25 to 34 years .....	35,860	30,313	84.5	28,970	1,344	4.4	5,547	3,896	626	271	753
25 to 29 years .....	17,457	14,772	84.6	14,071	701	4.7	2,685	1,839	400	110	337
30 to 34 years .....	18,402	15,541	84.5	14,899	642	4.1	2,861	2,057	226	162	417
35 to 44 years .....	31,637	27,216	86.0	26,266	950	3.5	4,422	3,132	215	369	707
35 to 39 years .....	16,749	14,352	85.7	13,840	511	3.6	2,397	1,748	134	165	350
40 to 44 years .....	14,889	12,864	86.4	12,425	439	3.4	2,024	1,383	80	204	357
45 to 54 years .....	21,706	17,592	81.0	17,056	536	3.0	4,114	2,652	73	508	881
45 to 49 years .....	11,879	9,891	83.3	9,566	325	3.3	1,988	1,286	60	238	404
50 to 54 years .....	9,827	7,701	78.4	7,490	211	2.7	2,126	1,366	13	270	477
55 to 64 years .....	18,574	10,413	56.1	10,076	337	3.2	8,162	3,860	17	660	3,624
55 to 59 years .....	9,174	6,199	67.6	5,984	215	3.5	2,975	1,641	12	331	991
60 to 64 years .....	9,400	4,214	44.8	4,092	122	2.9	5,186	2,219	5	329	2,693
65 years and over .....	26,541	3,300	12.4	3,203	97	2.9	23,241	8,023	9	975	14,234
65 to 69 years .....	8,976	1,997	22.2	1,938	59	2.9	6,979	2,507	1	216	4,255
70 to 74 years .....	7,100	843	11.9	818	25	3.0	6,257	2,150	3	197	3,907
75 years and over .....	10,465	460	4.4	447	13	2.8	10,005	3,366	5	563	6,071
<b>Men</b>											
16 years and over .....	76,943	58,858	76.5	56,036	2,822	4.8	18,085	376	3,282	1,656	12,772
16 to 19 years .....	5,625	3,195	56.8	2,770	425	13.3	2,430	24	2,095	16	295
16 to 17 years .....	2,709	1,228	45.3	1,035	193	15.7	1,482	12	1,297	10	162
18 to 19 years .....	2,916	1,967	67.5	1,735	232	11.8	949	12	798	6	133
20 to 24 years .....	7,195	6,098	84.7	5,618	480	7.9	1,097	17	834	37	210
25 to 54 years .....	44,205	41,658	94.2	40,012	1,646	4.0	2,547	162	348	777	1,260
25 to 34 years .....	17,869	16,966	94.9	16,178	788	4.6	903	53	274	184	392
25 to 29 years .....	8,665	8,187	94.5	7,778	409	5.0	478	28	191	74	185
30 to 34 years .....	9,204	8,779	95.4	8,400	379	4.3	425	25	83	110	207
35 to 44 years .....	15,693	14,973	95.4	14,449	524	3.5	721	59	56	242	363
35 to 39 years .....	8,337	8,000	96.0	7,719	281	3.5	337	25	36	113	163
40 to 44 years .....	7,356	6,972	94.8	6,730	242	3.5	384	34	21	130	200
45 to 54 years .....	10,644	9,720	91.3	9,385	334	3.4	924	49	18	351	506
45 to 49 years .....	5,842	5,381	92.1	5,181	200	3.7	461	26	16	171	248
50 to 54 years .....	4,801	4,338	90.4	4,204	134	3.1	463	23	2	180	258
55 to 64 years .....	8,838	6,002	67.9	5,781	221	3.7	2,836	50	-	426	2,359
55 to 59 years .....	4,409	3,526	80.0	3,391	135	3.8	883	27	-	217	639
60 to 64 years .....	4,428	2,476	55.9	2,390	85	3.4	1,953	23	-	209	1,720
65 years and over .....	11,080	1,905	17.2	1,854	51	2.7	9,175	124	4	399	8,648
65 to 69 years .....	4,103	1,114	27.2	1,086	28	2.5	2,989	29	1	140	2,820
70 to 74 years .....	3,098	516	16.7	500	17	3.2	2,582	36	-	95	2,450
75 years and over .....	3,879	274	7.1	268	6	2.3	3,604	59	4	164	3,378
<b>Women</b>											
16 years and over .....	83,227	47,602	57.2	45,529	2,073	4.4	35,625	22,596	3,437	1,210	8,382
16 to 19 years .....	5,539	2,902	52.4	2,548	354	12.2	2,637	286	2,087	9	255
16 to 17 years .....	2,585	1,131	43.8	954	177	15.7	1,454	59	1,237	-	157
18 to 19 years .....	2,953	1,771	59.9	1,594	176	10.0	1,183	227	849	8	98
20 to 24 years .....	7,492	5,431	72.5	5,057	374	6.9	2,062	1,083	763	20	196
25 to 54 years .....	44,998	33,463	74.4	32,279	1,184	3.5	11,534	9,517	566	371	1,081
25 to 34 years .....	17,991	13,347	74.2	12,792	556	4.2	4,644	3,842	352	87	362
25 to 29 years .....	8,792	6,585	74.9	6,292	292	4.4	2,207	1,811	210	35	152
30 to 34 years .....	9,199	6,763	73.5	6,499	264	3.9	2,436	2,031	143	52	210
35 to 44 years .....	15,944	12,243	76.8	11,817	427	3.5	3,701	3,072	159	126	344
35 to 39 years .....	8,412	6,351	75.5	6,122	230	3.6	2,061	1,723	99	52	187
40 to 44 years .....	7,532	5,892	78.2	5,695	197	3.3	1,640	1,349	60	74	157
45 to 54 years .....	11,062	7,873	71.2	7,671	202	2.6	3,190	2,603	55	157	375
45 to 49 years .....	6,037	4,510	74.7	4,385	125	2.8	1,527	1,259	44	68	156
50 to 54 years .....	5,026	3,363	66.9	3,286	77	2.3	1,663	1,343	11	90	219
55 to 64 years .....	9,737	4,411	45.3	4,295	116	2.6	5,326	3,810	17	234	1,265
55 to 59 years .....	4,765	2,673	56.1	2,593	80	3.0	2,092	1,614	13	114	352
60 to 64 years .....	4,972	1,738	35.0	1,702	36	2.1	3,234	2,197	4	120	913
65 years and over .....	15,461	1,395	9.0	1,350	45	3.3	14,066	7,899	4	577	5,586
65 to 69 years .....	4,873	883	18.1	852	31	3.5	3,990	2,479	-	76	1,435
70 to 74 years .....	4,001	327	8.2	318	8	2.5	3,675	2,113	3	101	1,457
75 years and over .....	6,587	186	2.8	179	7	3.6	6,401	3,307	1	399	2,694

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-4. Employment status of the civilian noninstitutional population by age, sex, and race—Continued**

(Numbers in thousands)

Age, sex, and race	April 1990										
	Civilian noninstitutional population	Civilian labor force					Not in labor force				
		Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>BLACK</b>											
16 years and over .....	21,228	13,335	62.8	11,973	1,362	10.2	7,893	2,763	1,672	876	2,582
16 to 19 years .....	2,154	762	35.4	585	177	23.3	1,392	70	1,167	12	143
16 to 17 years .....	1,055	249	23.6	171	78	31.2	806	18	725	-	63
18 to 19 years .....	1,098	513	46.7	413	100	19.4	585	52	441	12	80
20 to 24 years .....	2,438	1,641	67.3	1,278	363	22.1	797	278	302	35	182
25 to 54 years .....	12,030	9,618	80.0	8,849	769	8.0	2,412	1,346	192	382	492
25 to 34 years .....	5,398	4,264	79.9	3,826	438	10.3	1,074	647	144	96	187
25 to 29 years .....	2,671	2,113	79.1	1,886	227	10.7	558	323	91	31	114
30 to 34 years .....	2,667	2,151	80.7	1,940	212	9.8	516	324	53	65	73
35 to 44 years .....	4,051	3,367	83.1	3,143	225	6.7	683	342	37	139	165
35 to 39 years .....	2,259	1,879	83.2	1,742	136	7.3	380	202	28	56	94
40 to 44 years .....	1,792	1,489	83.1	1,401	88	5.9	303	140	9	83	71
45 to 54 years .....	2,641	1,986	75.2	1,880	106	5.4	655	357	11	147	140
45 to 49 years .....	1,386	1,080	77.9	1,025	55	5.1	306	158	10	70	67
50 to 54 years .....	1,255	906	72.2	855	52	5.7	349	199	1	77	73
55 to 64 years .....	2,114	1,032	48.8	994	39	3.7	1,082	409	10	214	449
55 to 59 years .....	1,087	613	56.4	593	20	3.3	475	200	4	121	150
60 to 64 years .....	1,027	419	40.8	401	18	4.4	607	209	6	93	299
65 years and over .....	2,492	282	11.3	268	14	5.0	2,210	660	2	234	1,315
65 to 69 years .....	910	158	17.4	148	10	6.1	752	217	-	66	469
70 to 74 years .....	629	101	16.0	98	3	2.7	528	155	2	41	330
75 years and over .....	954	23	2.5	22	2	( <sup>1</sup> )	930	288	-	127	516
<b>Men</b>											
16 years and over .....	9,529	6,611	69.4	5,887	725	11.0	2,917	139	768	472	1,538
16 to 19 years .....	1,065	396	37.2	298	98	24.7	669	2	573	6	89
16 to 17 years .....	531	134	25.3	86	48	36.0	397	-	360	-	37
18 to 19 years .....	534	262	49.0	212	49	18.9	272	3	212	6	52
20 to 24 years .....	1,107	831	75.1	635	197	23.6	276	20	130	20	105
25 to 54 years .....	5,406	4,720	87.3	4,324	397	8.4	686	58	64	257	307
25 to 34 years .....	2,417	2,160	89.4	1,933	227	10.5	257	19	43	78	116
25 to 29 years .....	1,209	1,076	89.0	959	117	10.8	133	11	28	23	70
30 to 34 years .....	1,209	1,084	89.7	974	110	10.2	124	8	15	55	46
35 to 44 years .....	1,816	1,599	88.0	1,494	104	6.5	217	13	16	87	101
35 to 39 years .....	1,009	897	89.0	836	61	6.8	111	6	11	39	56
40 to 44 years .....	807	701	86.9	658	43	6.1	106	7	5	48	45
45 to 54 years .....	1,173	961	82.0	896	65	6.8	212	26	4	92	89
45 to 49 years .....	605	506	83.5	472	34	6.7	100	8	4	44	44
50 to 54 years .....	568	456	80.3	425	31	6.8	112	18	-	48	45
55 to 64 years .....	944	531	56.3	508	24	4.5	413	25	-	107	280
55 to 59 years .....	482	312	64.7	301	11	3.6	170	16	-	59	95
60 to 64 years .....	462	220	47.6	207	13	5.8	242	9	-	48	185
65 years and over .....	1,006	133	13.2	123	10	7.5	874	33	2	82	756
65 to 69 years .....	386	70	18.0	62	7	( <sup>1</sup> )	316	6	-	32	279
70 to 74 years .....	280	52	18.6	49	3	( <sup>1</sup> )	228	11	2	24	191
75 years and over .....	341	11	3.3	11	-	( <sup>1</sup> )	330	17	-	26	287
<b>Women</b>											
16 years and over .....	11,699	6,724	57.5	6,086	638	9.5	4,975	2,624	904	404	1,043
16 to 19 years .....	1,089	366	33.6	287	79	21.7	723	68	594	6	54
16 to 17 years .....	524	115	21.9	85	29	25.5	410	19	365	-	26
18 to 19 years .....	564	251	44.5	201	50	20.0	313	50	229	6	28
20 to 24 years .....	1,331	810	60.9	643	167	20.6	521	258	172	14	76
25 to 54 years .....	6,624	4,897	73.9	4,525	373	7.6	1,726	1,287	128	125	185
25 to 34 years .....	2,921	2,104	72.0	1,893	211	10.0	817	627	101	18	71
25 to 29 years .....	1,462	1,037	70.9	927	110	10.6	425	312	62	8	44
30 to 34 years .....	1,459	1,067	73.2	966	101	9.5	392	316	38	11	27
35 to 44 years .....	2,235	1,769	79.1	1,649	120	6.8	466	329	21	52	64
35 to 39 years .....	1,250	981	78.5	906	75	7.6	269	197	16	17	38
40 to 44 years .....	985	787	80.0	742	45	5.7	197	133	4	35	25
45 to 54 years .....	1,468	1,025	69.8	984	41	4.0	443	331	7	55	51
45 to 49 years .....	780	575	73.6	554	21	3.7	206	150	6	27	22
50 to 54 years .....	688	450	65.5	430	20	4.5	238	180	1	28	28
55 to 64 years .....	1,170	501	42.8	486	15	3.0	669	384	10	106	169
55 to 59 years .....	605	301	49.7	292	9	3.0	304	184	4	62	55
60 to 64 years .....	565	200	35.4	194	6	2.8	365	200	6	45	114
65 years and over .....	1,486	149	10.1	145	4	2.8	1,337	627	-	152	558
65 to 69 years .....	524	88	16.9	86	2	2.8	435	211	-	34	190
70 to 74 years .....	349	49	14.0	49	-	( <sup>1</sup> )	300	144	-	17	139
75 years and over .....	613	12	2.0	10	2	( <sup>1</sup> )	601	271	-	101	229

<sup>1</sup> Data not shown where base is less than 75,000.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-5. Employment status of the black-and-other civilian noninstitutional population by age and sex**

(Numbers in thousands)

Age and sex	April 1990								
	Civilian noninstitutional population	Civilian labor force							Not in labor force
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>TOTAL</b>									
16 years and over .....	27,499	17,356	63.1	15,795	190	15,605	1,562	9.0	10,142
16 to 19 years .....	2,688	954	35.5	754	-	754	200	20.9	1,735
16 to 17 years .....	1,303	310	23.8	226	-	226	84	27.2	993
18 to 19 years .....	1,385	644	46.5	528	-	528	115	17.9	741
20 to 24 years .....	3,119	2,087	66.9	1,700	29	1,671	387	18.5	1,032
25 to 54 years .....	15,963	12,648	79.2	11,735	119	11,616	914	7.2	3,314
25 to 34 years .....	6,951	5,484	78.9	4,981	47	4,935	503	9.2	1,467
25 to 29 years .....	3,478	2,693	77.4	2,439	27	2,412	254	9.4	784
30 to 34 years .....	3,474	2,791	80.3	2,542	19	2,523	249	8.9	683
35 to 44 years .....	5,434	4,436	81.6	4,166	48	4,119	270	6.1	998
35 to 39 years .....	3,019	2,442	80.9	2,283	23	2,260	159	6.5	577
40 to 44 years .....	2,415	1,994	82.6	1,883	25	1,859	111	5.6	420
45 to 54 years .....	3,578	2,728	76.3	2,587	25	2,563	141	5.2	849
45 to 49 years .....	1,955	1,529	78.2	1,452	19	1,433	78	5.1	426
50 to 54 years .....	1,622	1,199	73.9	1,136	6	1,130	63	5.3	423
55 to 64 years .....	2,638	1,314	49.8	1,270	30	1,239	45	3.4	1,324
55 to 59 years .....	1,363	800	58.7	775	21	753	26	3.2	562
60 to 64 years .....	1,276	514	40.3	495	9	486	19	3.6	762
65 years and over .....	3,091	353	11.4	336	11	325	16	4.7	2,738
65 to 69 years .....	1,165	205	17.6	193	4	189	12	5.8	960
70 to 74 years .....	794	118	14.8	115	4	110	3	2.3	676
75 years and over .....	1,132	30	2.7	29	3	26	2	( <sup>1</sup> )	1,101
<b>Men</b>									
16 years and over .....	12,500	8,801	70.4	7,957	153	7,804	844	9.6	3,699
16 to 19 years .....	1,331	485	36.4	375	-	375	110	22.6	846
16 to 17 years .....	648	160	24.6	109	-	109	50	31.6	488
18 to 19 years .....	683	325	47.6	266	-	266	59	18.2	358
20 to 24 years .....	1,450	1,075	74.2	867	27	841	208	19.3	375
25 to 54 years .....	7,282	6,385	87.7	5,898	97	5,800	487	7.6	897
25 to 34 years .....	3,195	2,833	88.7	2,570	39	2,530	263	9.3	362
25 to 29 years .....	1,601	1,404	87.7	1,268	23	1,244	136	9.7	197
30 to 34 years .....	1,594	1,429	89.6	1,302	16	1,286	128	8.9	165
35 to 44 years .....	2,470	2,196	88.9	2,060	36	2,025	136	6.2	274
35 to 39 years .....	1,363	1,213	88.9	1,136	15	1,121	77	6.3	151
40 to 44 years .....	1,107	984	88.9	924	21	904	59	6.0	123
45 to 54 years .....	1,616	1,355	83.9	1,268	22	1,246	88	6.5	261
45 to 49 years .....	883	753	85.3	706	17	689	47	6.2	130
50 to 54 years .....	733	602	82.1	561	5	556	41	6.8	131
55 to 64 years .....	1,158	680	58.7	652	19	633	28	4.1	478
55 to 59 years .....	602	408	67.8	394	13	381	14	3.5	194
60 to 64 years .....	556	271	48.8	258	6	251	13	5.0	284
65 years and over .....	1,279	177	13.9	165	10	155	12	6.7	1,102
65 to 69 years .....	496	98	19.7	88	3	85	9	9.5	398
70 to 74 years .....	366	65	17.8	62	4	58	3	( <sup>1</sup> )	301
75 years and over .....	417	15	3.5	15	3	12	-	( <sup>1</sup> )	402
<b>Women</b>									
16 years and over .....	14,999	8,555	57.0	7,837	37	7,801	717	8.4	6,444
16 to 19 years .....	1,357	469	34.6	379	-	379	90	19.2	888
16 to 17 years .....	655	151	23.0	117	-	117	34	22.6	505
18 to 19 years .....	702	318	45.4	262	-	262	56	17.6	383
20 to 24 years .....	1,669	1,012	60.6	833	3	830	179	17.7	657
25 to 54 years .....	8,681	6,264	72.2	5,837	22	5,815	427	6.8	2,417
25 to 34 years .....	3,756	2,651	70.6	2,412	7	2,404	240	9.0	1,105
25 to 29 years .....	1,877	1,290	68.7	1,171	4	1,167	118	9.2	587
30 to 34 years .....	1,879	1,362	72.5	1,240	3	1,237	121	8.9	518
35 to 44 years .....	2,963	2,240	75.6	2,106	12	2,094	134	6.0	724
35 to 39 years .....	1,656	1,229	74.2	1,147	7	1,139	82	6.7	427
40 to 44 years .....	1,308	1,011	77.3	959	4	955	52	5.1	297
45 to 54 years .....	1,961	1,373	70.0	1,320	3	1,317	53	3.9	588
45 to 49 years .....	1,072	776	72.4	745	2	744	31	4.0	296
50 to 54 years .....	889	597	67.1	575	1	573	22	3.7	292
55 to 64 years .....	1,480	635	42.9	618	11	607	17	2.7	846
55 to 59 years .....	760	392	51.6	380	9	372	12	3.0	368
60 to 64 years .....	720	243	33.7	238	3	235	5	2.1	478
65 years and over .....	1,812	176	9.7	171	1	170	4	2.6	1,636
65 to 69 years .....	669	107	16.0	105	1	104	3	2.4	562
70 to 74 years .....	427	52	12.3	53	-	52	-	( <sup>1</sup> )	375
75 years and over .....	715	16	2.2	14	-	14	2	( <sup>1</sup> )	699

<sup>1</sup> Data not shown where base is less than 75,000.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-6. Employment status of the civilian noninstitutional population by race, sex, and age**

(Numbers in thousands)

Employment status and race	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
<b>TOTAL</b>								
Civilian noninstitutional population .....	186,024	187,669	81,413	82,487	90,318	91,330	14,293	13,852
Civilian labor force .....	122,576	123,816	63,370	63,980	51,855	52,786	7,350	7,051
Percent of population .....	65.9	66.0	77.8	77.6	57.4	57.8	51.4	50.9
Employed .....	116,347	117,359	60,430	60,848	49,578	50,439	6,338	6,072
Agriculture .....	3,116	3,102	2,277	2,263	600	631	240	208
Nonagricultural industries .....	113,231	114,257	58,154	58,585	48,978	49,808	6,098	5,865
Unemployed .....	6,229	6,457	2,940	3,132	2,277	2,347	1,012	978
Unemployment rate .....	5.1	5.2	4.6	4.9	4.4	4.4	13.8	13.9
Not in labor force .....	63,448	63,853	18,042	18,507	38,463	38,544	6,943	6,802
<b>White</b>								
Civilian noninstitutional population .....	159,098	160,170	70,496	71,318	77,003	77,688	11,599	11,164
Civilian labor force .....	105,542	106,460	55,207	55,663	43,954	44,700	6,382	6,097
Percent of population .....	66.3	66.5	78.3	78.0	57.1	57.5	55.0	54.6
Employed .....	100,941	101,564	53,033	53,265	42,291	42,981	5,617	5,318
Agriculture .....	2,932	2,912	2,137	2,110	561	595	234	207
Nonagricultural industries .....	98,009	98,652	50,896	51,155	41,730	42,386	5,383	5,111
Unemployed .....	4,601	4,895	2,173	2,398	1,663	1,719	765	779
Unemployment rate .....	4.4	4.6	3.9	4.3	3.8	3.8	12.0	12.8
Not in labor force .....	53,556	53,710	15,290	15,655	33,049	32,988	5,217	5,067
<b>Black</b>								
Civilian noninstitutional population .....	20,956	21,228	8,338	8,464	10,445	10,611	2,173	2,154
Civilian labor force .....	13,121	13,335	6,165	6,216	6,174	6,358	783	762
Percent of population .....	62.6	62.8	73.9	73.4	59.1	59.9	36.0	35.4
Employed .....	11,699	11,973	5,515	5,589	5,637	5,799	546	585
Agriculture .....	138	125	107	102	26	23	5	-
Nonagricultural industries .....	11,561	11,847	5,408	5,486	5,611	5,776	541	585
Unemployed .....	1,422	1,362	650	627	536	558	236	177
Unemployment rate .....	10.8	10.2	10.5	10.1	8.7	8.8	30.2	23.3
Not in labor force .....	7,835	7,893	2,173	2,248	4,272	4,253	1,390	1,392

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-7. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, years of school completed, sex, race, and Hispanic origin**

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	April 1990									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	Percent of labor force
<b>TOTAL ENROLLED</b>										
Total, 16 to 24 years .....	15,571	7,470	48.0	6,722	1,171	5,551	748	157	591	10.0
16 to 19 years .....	10,618	4,613	43.5	4,049	338	3,711	565	89	476	12.2
20 to 24 years .....	4,953	2,857	57.7	2,674	833	1,841	183	68	115	6.4
High school .....	8,353	3,470	41.5	2,976	213	2,763	493	65	428	14.2
College .....	7,218	4,000	55.4	3,746	958	2,788	255	92	163	6.4
Full-time students .....	6,293	3,165	50.3	2,960	454	2,506	205	53	152	6.5
Part-time students .....	926	836	90.3	786	504	282	50	39	11	6.0
Men, 16 to 24 years .....	7,809	3,746	48.0	3,342	636	2,706	403	101	302	10.8
16 to 19 years .....	5,332	2,317	43.5	2,023	217	1,806	294	55	239	12.7
20 to 24 years .....	2,477	1,429	57.7	1,319	419	901	110	46	63	7.7
High school .....	4,389	1,863	42.4	1,602	143	1,459	261	43	217	14.0
College .....	3,420	1,883	55.1	1,740	492	1,248	143	58	85	7.6
Full-time students .....	3,030	1,518	50.1	1,404	270	1,134	114	34	80	7.5
Part-time students .....	390	365	93.6	336	222	114	28	23	5	7.8
Women, 16 to 24 years .....	7,762	3,725	48.0	3,380	535	2,845	344	56	289	9.2
16 to 19 years .....	5,286	2,297	43.4	2,025	121	1,905	271	34	237	11.8
20 to 24 years .....	2,476	1,428	57.7	1,355	414	940	73	22	52	5.1
High school .....	3,963	1,607	40.5	1,374	70	1,305	233	22	211	14.5
College .....	3,799	2,118	55.7	2,006	465	1,540	112	34	78	5.3
Full-time students .....	3,262	1,647	50.5	1,556	184	1,372	91	18	72	5.5
Part-time students .....	536	471	87.8	449	282	168	21	16	6	4.5
<b>White</b>										
Total, 16 to 24 years .....	12,651	6,518	51.5	5,932	1,027	4,905	586	101	485	9.0
16 to 19 years .....	8,515	4,033	47.4	3,579	296	3,283	454	60	394	11.2
20 to 24 years .....	4,137	2,485	60.1	2,353	732	1,621	133	41	91	5.3
Men .....	6,370	3,273	51.4	2,964	557	2,407	309	62	246	9.4
Women .....	6,282	3,246	51.7	2,968	470	2,498	278	39	239	8.6
High school .....	6,563	3,013	45.9	2,625	181	2,444	388	37	351	12.9
College .....	6,088	3,506	57.6	3,307	847	2,460	198	65	134	5.7
Full-time students .....	5,295	2,790	52.7	2,627	403	2,224	162	37	125	5.8
Part-time students .....	793	716	90.3	680	444	236	36	27	9	5.0
<b>Black</b>										
Total, 16 to 24 years .....	2,160	670	31.0	532	88	444	138	47	91	20.7
16 to 19 years .....	1,648	445	27.0	349	24	324	96	23	73	21.7
20 to 24 years .....	511	225	44.0	183	64	119	42	24	18	18.7
Men .....	1,042	332	31.8	249	45	205	82	33	49	24.8
Women .....	1,118	338	30.3	282	43	239	56	14	42	16.6
High school .....	1,451	366	25.2	272	22	250	94	25	68	25.6
College .....	709	304	42.9	259	66	194	45	22	23	14.7
Full-time students .....	626	227	36.2	194	32	161	33	12	22	14.7
Part-time students .....	82	77	93.4	66	33	32	11	10	1	14.7
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	1,223	458	37.5	380	107	272	79	20	59	17.2
16 to 19 years .....	893	257	28.8	198	28	170	58	16	42	22.7
20 to 24 years .....	330	202	61.0	181	79	102	20	3	17	10.1
Men .....	590	258	43.6	212	57	155	45	14	31	17.6
Women .....	633	201	31.7	167	50	118	34	6	28	16.7
High school .....	823	224	27.2	166	34	131	58	16	42	25.9
College .....	401	235	58.6	214	73	141	21	4	17	8.8
Full-time students .....	315	156	49.5	140	21	119	16	1	15	10.4
Part-time students .....	85	79	92.3	74	52	22	5	2	2	5.8

See footnotes at end of table.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-7. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, years of school completed, sex, race, and Hispanic origin—Continued**

(Numbers in thousands)

Employment status, years of school completed, race, and Hispanic origin	April 1990									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			Percent of labor force
				Total	Full time <sup>1</sup>	Part time <sup>1</sup>	Total	Looking for full-time work	Looking for part-time work	
<b>TOTAL NOT ENROLLED</b>										
Total, 16 to 24 years .....	16,088	13,186	82.0	11,725	10,142	1,582	1,471	1,363	109	11.1
16 to 19 years .....	3,234	2,437	75.3	2,024	1,526	498	413	379	34	17.0
20 to 24 years .....	12,853	10,759	83.7	9,701	8,616	1,085	1,058	983	75	9.8
Less than 4 years of high school .....	4,147	2,711	65.4	2,165	1,746	419	546	509	37	20.1
4 years of high school .....	8,007	6,824	85.2	6,102	5,285	817	723	664	59	10.6
1 to 3 years of college .....	2,511	2,291	91.3	2,151	1,899	252	141	131	10	6.1
4 years of college or more .....	1,423	1,369	96.2	1,308	1,212	96	62	60	2	4.5
<b>Men, 16 to 24 years .....</b>	<b>7,793</b>	<b>7,107</b>	<b>91.2</b>	<b>6,288</b>	<b>5,695</b>	<b>593</b>	<b>819</b>	<b>795</b>	<b>24</b>	<b>11.5</b>
16 to 19 years .....	1,625	1,363	83.9	1,122	920	202	241	237	4	17.7
20 to 24 years .....	6,168	5,744	93.1	5,166	4,775	391	578	558	20	10.1
Less than 4 years of high school .....	2,203	1,825	82.8	1,494	1,283	211	331	327	4	18.1
4 years of high school .....	3,881	3,636	93.7	3,224	2,962	262	413	393	20	11.3
1 to 3 years of college .....	1,109	1,065	96.1	1,010	929	81	55	55	-	5.2
4 years of college or more .....	599	581	96.9	560	521	39	21	21	-	3.6
<b>Women, 16 to 24 years .....</b>	<b>8,295</b>	<b>6,089</b>	<b>73.4</b>	<b>5,437</b>	<b>4,448</b>	<b>989</b>	<b>652</b>	<b>568</b>	<b>84</b>	<b>10.7</b>
16 to 19 years .....	1,610	1,074	66.7	902	606	296	173	142	30	16.1
20 to 24 years .....	6,686	5,015	75.0	4,535	3,841	694	479	425	54	9.6
Less than 4 years of high school .....	1,943	886	45.6	671	463	208	215	182	33	24.3
4 years of high school .....	4,126	3,188	77.3	2,878	2,323	554	310	271	39	9.7
1 to 3 years of college .....	1,402	1,226	87.5	1,140	970	171	86	76	10	7.0
4 years of college or more .....	824	788	95.7	748	691	56	41	38	2	5.2
<b>White</b>										
Total, 16 to 24 years .....	13,200	11,107	84.1	10,061	8,746	1,315	1,046	960	86	9.4
16 to 19 years .....	2,649	2,064	77.9	1,739	1,323	417	325	306	19	15.7
20 to 24 years .....	10,551	9,043	85.7	8,322	7,424	898	721	654	67	8.0
Men .....	6,451	6,020	93.3	5,424	4,956	468	596	578	18	9.9
Women .....	6,749	5,087	75.4	4,637	3,790	847	450	382	67	8.8
Less than 4 years of high school .....	3,303	2,281	69.1	1,862	1,527	335	419	393	26	18.4
4 years of high school .....	6,531	5,668	86.8	5,175	4,480	694	494	447	47	8.7
1 to 3 years of college .....	2,083	1,918	92.1	1,834	1,628	206	84	74	10	4.4
4 years of college or more .....	1,283	1,240	96.6	1,191	1,112	79	49	47	2	4.0
<b>Black</b>										
Total, 16 to 24 years .....	2,432	1,733	71.3	1,331	1,109	222	402	380	22	23.2
16 to 19 years .....	505	317	62.6	236	169	67	81	66	15	25.5
20 to 24 years .....	1,926	1,416	73.5	1,095	940	155	321	314	7	22.7
Men .....	1,130	895	79.2	683	573	110	212	206	5	23.7
Women .....	1,302	838	64.3	648	535	113	190	174	16	22.7
Less than 4 years of high school .....	705	346	49.1	227	150	77	119	109	10	34.4
4 years of high school .....	1,316	1,030	78.1	811	709	102	219	208	11	21.3
1 to 3 years of college .....	327	280	85.5	227	196	31	53	53	-	18.9
4 years of college or more .....	82	77	94.2	66	53	13	11	11	-	13.7
<b>Hispanic origin</b>										
Total, 16 to 24 years .....	2,151	1,647	76.6	1,457	1,297	159	190	165	25	11.6
16 to 19 years .....	525	371	70.7	292	241	51	80	75	5	21.5
20 to 24 years .....	1,626	1,275	78.5	1,165	1,056	109	111	91	20	8.7
Men .....	1,144	1,052	92.0	938	876	62	114	105	9	10.8
Women .....	1,007	594	59.0	518	421	97	76	60	16	12.8
Less than 4 years of high school .....	1,172	826	70.5	716	652	64	110	98	12	13.3
4 years of high school .....	733	596	81.3	530	456	74	66	54	12	11.1
1 to 3 years of college .....	200	182	91.0	170	149	21	12	11	1	6.6
4 years of college or more .....	45	43	( <sup>2</sup> )	41	40	-	2	2	-	( <sup>2</sup> )

<sup>1</sup> Employed persons with a job but not at work and persons at work part time are distributed according to whether they usually work full or part time.

<sup>2</sup> Data not shown where base is less than 75,000.

NOTE: In the summer months, the educational attainment levels of youth not enrolled in school are increased by the temporary movement of high school and

college students into that group. Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.



**A-8. Employment status of male Vietnam-era veterans and nonveterans by age**

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	Apr. 1989	Apr. 1990	Total		Employed		Unemployed			
			Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Number		Percent of labor force	
							Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
<b>VIETNAM-ERA VETERANS</b>										
Total, 35 years and over .....	7,389	7,607	6,730	6,916	6,491	6,659	239	257	3.6	3.7
35 to 49 years .....	6,435	6,525	6,099	6,151	5,873	5,908	226	242	3.7	3.9
35 to 39 years .....	1,840	1,470	1,731	1,378	1,639	1,302	92	76	5.3	5.5
40 to 44 years .....	3,221	3,335	3,057	3,182	2,961	3,067	96	116	3.1	3.6
45 to 49 years .....	1,374	1,720	1,311	1,591	1,273	1,540	38	51	2.9	3.2
50 years and over .....	954	1,082	631	766	618	751	14	15	2.2	1.9
<b>NONVETERANS</b>										
Total, 35 to 49 years .....	16,022	17,045	14,965	15,936	14,355	15,321	610	615	4.1	3.9
35 to 39 years .....	7,302	7,818	6,924	7,440	6,624	7,173	300	267	4.3	3.6
40 to 44 years .....	4,654	5,020	4,336	4,670	4,177	4,490	159	180	3.7	3.8
45 to 49 years .....	4,066	4,207	3,705	3,825	3,554	3,657	150	168	4.0	4.4

NOTE: Male Vietnam-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces; published data are limited to those 35 to 49 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population. Data

for 30-to 34-year-old veterans are no longer shown in this table because the group is rapidly disappearing (into the 35-39 age category) and the numbers remaining for some labor force categories are not large enough to warrant their continued publication.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-9. Employed and unemployed full- and part-time workers by sex, age, and race**

(In thousands)

Sex, age, and race	April 1990							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules <sup>1</sup>	Part time for economic reasons, usually work full time	Total	Voluntary <sup>1</sup>	Part time for economic reasons, usually work part time		
<b>TOTAL</b>								
Total, 16 years and over .....	96,778	95,203	1,574	20,582	17,582	3,000	5,266	1,190
16 to 19 years .....	1,864	1,795	69	4,208	3,892	317	468	510
16 to 17 years .....	211	194	17	2,004	1,958	46	127	328
18 to 19 years .....	1,653	1,601	52	2,204	1,934	271	342	182
20 years and over .....	94,914	93,408	1,505	16,373	13,690	2,683	4,798	680
20 to 24 years .....	9,449	9,229	220	2,925	2,434	492	1,051	190
25 years and over .....	85,464	84,179	1,285	13,448	11,256	2,191	3,747	491
25 to 54 years .....	74,377	73,263	1,114	9,649	7,820	1,829	3,390	354
55 years and over .....	11,087	10,916	171	3,799	3,437	362	357	137
<b>Men, 16 years and over .....</b>	<b>57,210</b>	<b>56,250</b>	<b>960</b>	<b>6,783</b>	<b>5,492</b>	<b>1,290</b>	<b>3,179</b>	<b>487</b>
16 to 19 years .....	1,137	1,107	30	2,008	1,859	149	292	243
20 years and over .....	56,073	55,143	930	4,774	3,633	1,141	2,887	245
20 to 24 years .....	5,193	5,069	124	1,292	1,044	248	604	84
25 years and over .....	50,880	50,074	806	3,483	2,589	894	2,283	161
25 to 54 years .....	43,990	43,295	695	1,920	1,164	756	2,040	93
55 years and over .....	6,890	6,779	111	1,563	1,425	138	243	68
<b>Women, 16 years and over .....</b>	<b>39,567</b>	<b>38,953</b>	<b>614</b>	<b>13,799</b>	<b>12,090</b>	<b>1,709</b>	<b>2,087</b>	<b>703</b>
16 to 19 years .....	727	688	39	2,200	2,032	168	176	267
20 years and over .....	38,840	38,266	575	11,599	10,057	1,542	1,911	436
20 to 24 years .....	4,256	4,160	96	1,634	1,390	244	447	106
25 years and over .....	34,585	34,105	479	9,965	8,667	1,298	1,464	330
25 to 54 years .....	30,387	29,968	419	7,729	6,656	1,074	1,350	261
55 years and over .....	4,197	4,137	60	2,236	2,012	224	114	69
<b>White</b>								
<b>Men, 16 years and over .....</b>	<b>50,221</b>	<b>49,384</b>	<b>837</b>	<b>5,814</b>	<b>4,834</b>	<b>980</b>	<b>2,430</b>	<b>392</b>
16 to 19 years .....	988	958	30	1,782	1,661	120	229	196
20 years and over .....	49,233	48,426	807	4,032	3,172	860	2,202	196
20 to 24 years .....	4,525	4,418	107	1,093	903	190	412	69
25 years and over .....	44,708	44,008	700	2,939	2,269	670	1,790	127
25 to 54 years .....	38,475	37,878	596	1,538	973	565	1,574	72
55 years and over .....	6,234	6,130	104	1,402	1,296	106	216	55
<b>Women, 16 years and over .....</b>	<b>33,181</b>	<b>32,678</b>	<b>502</b>	<b>12,348</b>	<b>10,941</b>	<b>1,408</b>	<b>1,483</b>	<b>590</b>
16 to 19 years .....	630	592	38	1,918	1,778	140	137	216
20 years and over .....	32,550	32,086	465	10,430	9,162	1,268	1,346	373
20 to 24 years .....	3,631	3,558	73	1,427	1,208	218	284	90
25 years and over .....	28,920	28,528	392	9,004	7,954	1,050	1,062	284
25 to 54 years .....	25,252	24,915	337	7,027	6,142	885	964	220
55 years and over .....	3,668	3,614	54	1,977	1,811	165	98	63
<b>Black</b>								
<b>Men, 16 years and over .....</b>	<b>5,207</b>	<b>5,105</b>	<b>102</b>	<b>680</b>	<b>434</b>	<b>246</b>	<b>648</b>	<b>76</b>
16 to 19 years .....	115	115	-	183	158	25	56	42
20 years and over .....	5,092	4,990	102	497	276	221	593	34
20 to 24 years .....	503	489	14	131	80	51	184	12
25 years and over .....	4,589	4,500	88	365	196	170	408	22
25 to 54 years .....	4,085	4,004	81	239	99	139	384	12
55 years and over .....	504	497	7	127	96	30	24	10
<b>Women, 16 years and over .....</b>	<b>5,011</b>	<b>4,914</b>	<b>97</b>	<b>1,075</b>	<b>822</b>	<b>253</b>	<b>541</b>	<b>97</b>
16 to 19 years .....	78	77	2	208	186	22	33	46
20 years and over .....	4,933	4,837	95	867	636	231	507	51
20 to 24 years .....	500	480	20	143	119	24	154	12
25 years and over .....	4,432	4,358	75	723	516	207	353	39
25 to 54 years .....	4,015	3,946	69	510	350	160	337	36
55 years and over .....	418	412	6	213	167	47	16	3

<sup>1</sup> Employed persons with a job but not at work are distributed according to whether they usually work full or part time.

**A-10. Employment status of persons in families by family relationship**

(Numbers in thousands)

Family relationship	April 1990									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over <sup>1</sup> .....	98,991	66.4	93,849	5,142	5.2	50,187	21,585	8,102	2,647	17,853
Husbands .....	40,056	77.9	38,756	1,300	3.2	11,369	161	209	1,106	9,893
With employed wife .....	26,692	91.7	25,907	785	2.9	2,413	98	131	448	1,736
With unemployed wife .....	848	91.9	740	108	12.7	75	1	2	14	58
With wife not in labor force .....	12,515	58.5	12,108	407	3.3	8,882	61	77	645	8,099
Wives .....	30,028	58.4	29,105	923	3.1	21,397	16,767	388	446	3,797
With employed husband .....	26,648	68.8	25,907	740	2.8	12,108	10,605	331	153	1,019
With unemployed husband .....	893	68.7	785	108	12.1	407	345	11	23	29
With husband not in labor force .....	2,487	21.9	2,413	75	3.0	8,882	5,817	46	270	2,750
Relatives in married-couple families .....	12,529	61.5	11,252	1,276	10.2	7,842	743	5,295	346	1,458
16 to 19 years .....	4,503	50.4	3,951	552	12.3	4,439	83	3,915	8	434
20 to 24 years .....	4,341	72.8	3,938	403	9.3	1,621	159	1,223	39	200
25 years and over .....	3,684	67.4	3,363	321	8.7	1,782	501	157	299	824
Women who maintain families .....	6,791	62.1	6,306	485	7.1	4,138	2,806	250	210	871
Relatives in families maintained by women .....	5,384	59.5	4,560	824	15.3	3,660	683	1,590	388	999
16 to 19 years .....	1,294	46.1	1,039	255	19.7	1,513	67	1,230	21	195
20 to 24 years .....	1,551	72.8	1,250	301	19.4	579	115	273	37	154
25 years and over .....	2,539	61.8	2,271	268	10.6	1,568	501	87	330	650
Men who maintain families .....	2,302	77.2	2,179	122	5.3	681	65	41	91	483
Relatives in families maintained by men .....	1,902	63.4	1,690	212	11.1	1,100	360	329	60	350
16 to 19 years .....	320	54.5	264	55	17.3	267	20	227	1	18
20 to 24 years .....	479	75.6	429	49	10.3	155	35	82	1	37
25 years and over .....	1,105	62.0	997	108	9.8	678	305	20	58	295

<sup>1</sup> Excludes persons living alone or with nonrelatives, persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies.

NOTE: Estimates shown in this table for husbands, wives, and women

who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns used in aggregating the data.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-11. Unemployed persons by marital status, race, age, and sex**

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
Total, 16 years and over .....	3,499	3,666	5.2	5.4	2,730	2,790	4.9	5.0
Married, spouse present .....	1,356	1,415	3.2	3.4	1,141	998	3.7	3.2
Widowed, divorced, or separated .....	472	511	6.9	7.0	608	643	5.7	5.7
Single (never married) .....	1,671	1,740	9.2	9.5	981	1,149	7.1	8.2
White, 16 years and over .....	2,595	2,822	4.4	4.8	2,007	2,073	4.3	4.4
Married, spouse present .....	1,090	1,197	2.9	3.2	952	846	3.5	3.1
Widowed, divorced, or separated .....	337	405	5.8	6.5	423	460	5.0	5.1
Single (never married) .....	1,168	1,220	7.7	8.0	632	767	5.7	6.9
Black, 16 years and over .....	780	725	11.9	11.0	642	638	9.8	9.5
Married, spouse present .....	206	160	6.4	5.0	143	114	5.9	4.7
Widowed, divorced, or separated .....	123	89	13.2	9.6	172	165	9.3	8.5
Single (never married) .....	452	475	18.9	19.3	326	359	14.4	15.2
Total, 25 years and over .....	2,349	2,444	4.2	4.3	1,710	1,794	3.8	3.9
Married, spouse present .....	1,248	1,306	3.1	3.2	915	854	3.2	2.9
Widowed, divorced, or separated .....	458	481	6.8	6.8	543	574	5.3	5.3
Single (never married) .....	643	656	7.1	7.1	254	365	4.2	5.6
White, 25 years and over .....	1,743	1,917	3.6	3.9	1,259	1,346	3.3	3.4
Married, spouse present .....	995	1,109	2.8	3.1	766	731	3.0	2.8
Widowed, divorced, or separated .....	327	380	5.8	6.4	369	409	4.5	4.7
Single (never married) .....	421	428	5.7	5.7	124	206	2.6	4.2
Black, 25 years and over .....	506	430	9.6	8.0	390	392	7.4	7.1
Married, spouse present .....	195	145	6.3	4.7	107	91	4.7	4.0
Widowed, divorced, or separated .....	120	83	13.4	9.2	160	148	8.9	7.9
Single (never married) .....	191	202	14.8	14.7	123	153	10.0	10.8

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-12. Unemployed persons by occupation and sex**

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
Total, 16 years and over .....	6,229	6,457	5.1	5.2	5.2	5.4	4.9	5.0
Managerial and professional specialty .....	556	563	1.8	1.8	1.8	1.8	1.8	1.8
Executive, administrative, and managerial .....	296	326	2.0	2.2	2.1	2.2	1.8	2.2
Professional specialty .....	259	237	1.6	1.5	1.5	1.5	1.8	1.5
Technical, sales, and administrative support .....	1,347	1,443	3.6	3.8	3.2	3.4	3.8	4.0
Technicians and related support .....	86	94	2.3	2.3	2.2	2.4	2.5	2.3
Sales occupations .....	600	628	4.2	4.3	3.2	3.1	5.2	5.5
Administrative support, including clerical .....	661	721	3.5	3.7	3.7	4.4	3.4	3.5
Service occupations .....	1,149	1,054	7.0	6.3	7.3	6.2	6.8	6.4
Private household .....	66	42	7.3	5.5	( <sup>1</sup> )	( <sup>1</sup> )	6.3	5.4
Protective service .....	80	55	4.0	2.8	3.6	2.4	6.3	4.6
Service, except private household and protective .....	1,003	958	7.5	6.9	8.4	7.4	6.9	6.5
Precision production, craft, and repair .....	797	827	5.6	5.7	5.7	5.7	4.4	5.9
Mechanics and repairers .....	205	175	4.3	3.8	4.4	3.9	.6	1.9
Construction trades .....	439	449	8.2	8.0	8.2	8.0	9.1	5.6
Other precision production, craft, and repair .....	153	203	3.6	4.7	3.4	4.2	4.5	6.6
Operators, fabricators, and laborers .....	1,503	1,694	7.8	8.9	7.5	8.7	8.3	9.2
Machine operators, assemblers, and inspectors .....	650	675	7.3	8.0	6.2	7.3	8.8	8.9
Transportation and material moving occupations .....	302	317	5.9	6.2	6.0	6.3	5.7	5.2
Handlers, equipment cleaners, helpers, and laborers .....	552	702	10.2	12.7	10.7	12.8	7.8	12.2
Construction laborers .....	157	181	17.2	19.7	17.2	19.3	( <sup>1</sup> )	( <sup>1</sup> )
Other handlers, equipment cleaners, helpers, and laborers .....	394	522	8.8	11.3	9.0	11.2	7.6	11.7
Farming, forestry, and fishing .....	221	231	6.3	6.7	6.0	6.4	8.0	8.4
No previous work experience .....	630	616	-	-	-	-	-	-
16 to 19 years .....	421	391	-	-	-	-	-	-
20 to 24 years .....	106	115	-	-	-	-	-	-
25 years and over .....	103	110	-	-	-	-	-	-

<sup>1</sup> Data not shown where base is less than 75,000.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-13. Unemployed persons by industry and sex**

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
Total, 16 years and over .....	6,229	6,457	5.1	5.2	5.2	5.4	4.9	5.0
Nonagricultural private wage and salary workers .....	4,818	5,157	5.3	5.6	5.4	5.9	5.0	5.2
Mining .....	47	38	6.4	5.1	7.4	5.3	1.1	4.0
Construction .....	650	721	10.5	11.3	11.0	11.8	5.4	5.5
Manufacturing .....	1,064	1,239	4.8	5.8	4.2	5.1	6.0	7.1
Durable goods .....	582	690	4.5	5.4	4.1	5.0	5.6	6.4
Lumber and wood products .....	49	59	6.1	7.8	6.5	7.5	4.4	9.5
Furniture and fixtures .....	53	29	7.0	4.1	5.6	3.5	9.9	5.4
Stone, clay, and glass products .....	21	48	3.5	7.3	2.4	7.6	8.5	6.3
Primary metal industries .....	26	32	3.2	3.6	2.4	3.9	7.6	2.2
Fabricated metal products .....	105	108	7.6	8.6	7.3	7.9	8.6	10.8
Machinery, except electrical .....	83	100	3.3	3.9	3.1	3.7	3.8	4.6
Electrical machinery, equipment, and supplies .....	97	123	4.6	5.8	4.4	4.1	5.0	8.1
Transportation equipment .....	99	120	3.6	4.6	3.3	4.9	4.7	3.6
Automobiles .....	61	74	4.6	5.9	4.2	6.2	6.3	5.1
Other transportation equipment .....	37	46	2.6	3.4	2.5	3.7	3.8	2.1
Professional and photographic equipment .....	17	31	2.5	4.3	2.5	2.4	2.5	6.7
Other durable goods industries .....	32	40	5.9	7.8	3.7	8.9	8.0	7.1
Nondurable goods .....	482	548	5.3	6.3	4.5	5.1	6.4	7.9
Food and kindred products .....	137	157	7.3	8.5	5.8	6.5	10.4	12.2
Textile mill products .....	30	47	4.3	6.9	2.2	7.2	6.8	6.5
Apparel and other textile products .....	114	123	9.0	11.2	12.5	12.3	7.9	10.9
Paper and allied products .....	21	37	2.7	5.2	2.6	6.0	3.0	3.0
Printing and publishing .....	77	69	4.1	3.8	4.8	4.3	3.1	3.2
Chemicals and allied products .....	60	51	4.1	3.7	3.1	2.1	6.0	6.8
Rubber and miscellaneous plastics products .....	27	39	3.4	5.2	3.5	4.2	3.1	7.2
Other nondurable goods industries .....	17	25	4.2	5.9	2.0	2.5	8.6	12.6
Transportation and public utilities .....	266	289	4.1	4.4	4.1	4.8	4.2	3.5
Transportation .....	200	237	5.3	6.3	4.9	6.8	6.4	4.7
Communications and other public utilities .....	66	52	2.4	1.9	2.8	1.6	1.9	2.3
Wholesale and retail trade .....	1,333	1,434	5.8	6.1	5.4	5.8	6.2	6.5
Wholesale trade .....	171	200	3.9	4.5	3.7	5.0	4.4	3.4
Retail trade .....	1,162	1,234	6.2	6.5	5.9	6.1	6.5	6.9
Finance, insurance, and real estate .....	253	219	3.4	3.0	4.3	2.9	2.9	3.0
Service industries .....	1,205	1,218	4.7	4.6	5.0	4.9	4.5	4.4
Professional services .....	433	462	2.9	3.0	3.0	3.1	2.9	3.0
Other service industries .....	772	756	7.0	6.7	6.7	6.3	7.3	7.0
Agricultural wage and salary workers .....	165	187	9.3	10.5	8.5	10.7	12.3	9.8
Government, self-employed, and unpaid family workers .....	616	496	2.2	1.7	2.3	1.8	2.0	1.6
No previous work experience .....	630	616	-	-	-	-	-	-

**A-14. Unemployed persons by reason for unemployment, sex, and race**

(Numbers in thousands)

Reason for unemployment	Total unemployed		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed .....	6,229	6,457	2,940	3,132	2,277	2,347	1,012	978	4,601	4,895	1,422	1,362
Job losers .....	2,990	3,213	1,906	2,025	914	986	169	202	2,230	2,517	650	600
On layoff .....	787	944	521	612	216	295	50	37	671	793	105	130
Other job losers .....	2,203	2,269	1,385	1,413	698	691	119	165	1,559	1,723	545	469
Job leavers .....	889	1,065	410	439	362	448	117	178	714	829	140	203
Reentrants .....	1,720	1,625	545	594	870	783	304	248	1,250	1,184	418	398
New entrants .....	630	554	79	75	130	129	421	350	407	366	214	162
<b>PERCENT DISTRIBUTION</b>												
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	48.0	49.8	64.8	64.6	40.2	42.0	16.8	20.7	48.5	51.4	45.7	44.0
On layoff .....	12.6	14.6	17.7	19.5	9.5	12.6	5.0	3.8	14.6	16.2	7.4	9.6
Other job losers .....	35.4	35.1	47.1	45.1	30.7	29.5	11.8	16.9	33.9	35.2	38.4	34.4
Job leavers .....	14.3	16.5	13.9	14.0	15.9	19.1	11.6	18.2	15.5	16.9	9.8	14.9
Reentrants .....	27.6	25.2	18.5	19.0	38.2	33.4	30.1	25.3	27.2	24.2	29.4	29.2
New entrants .....	10.1	8.6	2.7	2.4	5.7	5.5	41.6	35.8	8.8	7.5	15.1	11.9
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>												
Job losers .....	2.4	2.6	3.0	3.2	1.7	1.9	2.3	2.9	2.1	2.4	5.0	4.5
Job leavers .....	.7	.9	.6	.7	.7	.8	1.6	2.5	.7	.8	1.1	1.5
Reentrants .....	1.4	1.3	.9	.9	1.7	1.5	4.1	3.5	1.2	1.1	3.2	3.0
New entrants .....	.5	.4	.1	.1	.3	.2	5.7	5.0	.4	.3	1.6	1.2

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-15. Unemployed persons by reason for unemployment, sex, age, and duration of unemployment**

(Percent distribution)

Reason, sex, and age	April 1990						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over .....	6,457	100.0	44.3	30.2	25.5	14.2	11.3
Job losers .....	3,213	100.0	36.4	33.6	30.1	17.4	12.6
On layoff .....	944	100.0	46.5	27.6	25.9	19.5	6.5
Other job losers .....	2,269	100.0	32.2	36.1	31.8	16.6	15.2
Job leavers .....	1,065	100.0	52.9	24.7	22.3	12.2	10.2
Reentrants .....	1,625	100.0	49.4	29.0	21.5	11.3	10.2
New entrants .....	554	100.0	58.1	25.2	16.8	7.4	9.4
Men, 20 years and over .....	3,132	100.0	37.4	30.2	32.4	17.1	15.3
Job losers .....	2,025	100.0	34.0	32.6	33.4	18.7	14.7
On layoff .....	612	100.0	45.6	26.1	28.3	21.9	6.4
Other job losers .....	1,413	100.0	29.0	35.4	35.6	17.2	18.4
Job leavers .....	439	100.0	47.9	23.4	28.7	13.1	15.6
Reentrants .....	594	100.0	42.0	27.7	30.3	16.0	14.3
New entrants .....	75	100.0	33.4	23.2	43.4	7.1	36.3
Women, 20 years and over .....	2,347	100.0	46.9	31.6	21.5	12.6	8.8
Job losers .....	986	100.0	38.4	36.1	25.4	16.0	9.5
On layoff .....	295	100.0	46.4	32.3	21.3	14.3	7.0
Other job losers .....	691	100.0	35.0	37.8	27.2	16.7	10.6
Job leavers .....	448	100.0	57.0	23.5	19.5	12.1	7.5
Reentrants .....	783	100.0	50.2	31.2	18.6	10.1	8.5
New entrants .....	129	100.0	57.2	27.8	15.0	5.0	10.0
Both sexes, 16 to 19 years .....	978	100.0	59.7	27.2	13.1	8.5	4.7
Job losers .....	202	100.0	50.4	30.5	19.1	12.6	6.5
On layoff .....	37	100.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other job losers .....	165	100.0	47.5	34.5	18.0	11.0	7.0
Job leavers .....	178	100.0	55.3	30.9	13.8	10.3	3.5
Reentrants .....	248	100.0	64.8	25.4	9.8	4.0	5.8
New entrants .....	350	100.0	63.6	24.6	11.7	8.4	3.4

<sup>1</sup> Data not shown where base is less than 75,000.

**A-16. Unemployed persons by duration of unemployment**

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
Total, 16 years and over .....	6,229	6,457	100.0	100.0	4,997	5,266	100.0	100.0
Less than 5 weeks .....	2,778	2,858	44.6	44.3	1,945	2,158	38.9	41.0
5 to 14 weeks .....	1,804	1,953	29.0	30.2	1,553	1,641	31.1	31.2
5 to 10 weeks .....	1,290	1,355	20.7	21.0	1,104	1,115	22.1	21.2
11 to 14 weeks .....	514	598	8.3	9.3	449	526	9.0	10.0
15 weeks and over .....	1,647	1,646	26.4	25.5	1,499	1,468	30.0	27.9
15 to 26 weeks .....	878	915	14.1	14.2	782	824	15.6	15.6
27 weeks and over .....	769	731	12.3	11.3	716	644	14.3	12.2
27 to 51 weeks .....	306	325	4.9	5.0	269	268	5.4	5.1
52 weeks and over .....	464	406	7.4	6.3	447	376	8.9	7.1
Average (mean) duration, in weeks .....	13.5	13.0	-	-	15.1	13.9	-	-
Median duration, in weeks .....	6.3	5.8	-	-	7.7	6.5	-	-



A-17. Unemployed persons by sex, age, race, marital status, and duration of unemployment

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
	April 1990										
Total, 16 years and over .....	6,457	2,858	1,953	915	731	13.0	5.8	44.6	44.3	26.4	25.5
16 to 19 years .....	978	584	266	83	46	7.4	3.8	63.7	59.7	13.1	13.1
20 to 24 years .....	1,241	629	386	124	101	10.6	4.4	50.3	50.7	22.8	18.2
25 to 34 years .....	1,846	805	580	271	190	12.4	5.7	38.5	43.6	27.7	25.0
35 to 44 years .....	1,220	446	382	214	178	15.1	8.6	39.2	36.6	33.5	32.1
45 to 54 years .....	677	232	184	134	127	19.6	9.6	34.1	34.3	34.4	38.5
55 to 64 years .....	381	117	116	81	68	19.2	9.4	36.8	30.6	33.8	38.9
65 years and over .....	113	44	38	9	21	13.9	6.4	53.1	39.3	23.4	26.9
Men, 16 years and over .....	3,666	1,487	1,082	588	510	14.8	6.8	41.3	40.5	30.9	29.9
16 to 19 years .....	535	314	137	52	31	7.9	3.8	66.1	58.7	14.9	15.7
20 to 24 years .....	688	315	227	80	66	11.7	5.5	45.0	45.7	27.5	21.3
25 to 34 years .....	1,051	428	327	171	125	13.7	6.3	33.9	40.7	32.9	28.2
35 to 44 years .....	659	213	183	140	124	18.0	10.5	33.5	32.3	41.1	40.0
45 to 54 years .....	422	126	116	84	96	22.2	11.5	32.9	29.8	36.8	42.6
55 to 64 years .....	248	64	69	56	59	23.3	12.5	36.0	25.8	34.4	46.5
65 years and over .....	63	27	23	5	8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Women, 16 years and over .....	2,790	1,371	871	327	221	10.5	4.7	48.8	49.1	20.7	19.6
16 to 19 years .....	444	270	129	31	14	6.8	3.7	60.8	60.8	10.8	10.1
20 to 24 years .....	553	314	159	44	35	9.2	4.0	55.7	56.9	18.0	14.3
25 to 34 years .....	795	377	253	100	65	10.5	5.0	44.5	47.4	20.8	20.7
35 to 44 years .....	561	234	199	74	54	11.7	6.8	46.8	41.7	23.1	22.9
45 to 54 years .....	255	106	68	50	30	15.2	6.9	35.9	41.6	31.0	31.6
55 to 64 years .....	133	53	47	24	9	11.4	7.6	38.3	39.7	32.6	24.7
65 years and over .....	50	17	15	4	14	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White, 16 years and over .....	4,895	2,143	1,495	722	536	12.8	5.9	44.9	43.8	25.2	25.7
Men .....	2,822	1,126	840	476	380	14.5	6.9	41.2	39.9	29.1	30.3
Women .....	2,073	1,017	654	246	156	10.4	4.7	49.8	49.1	20.2	19.4
Black, 16 years and over .....	1,362	634	403	157	169	13.5	5.3	44.4	46.5	29.9	24.0
Men .....	725	323	206	82	114	15.7	6.0	41.4	44.6	36.5	27.0
Women .....	638	310	197	75	56	11.0	4.8	47.9	48.7	21.8	20.5
Men, 16 years and over:											
Married, spouse present .....	1,415	475	430	290	221	16.9	9.2	32.3	33.6	36.7	36.1
Widowed, divorced, or separated .....	511	213	126	87	84	16.4	7.5	39.6	41.7	35.9	33.5
Single (never married) .....	1,740	798	526	211	205	12.7	5.4	49.1	45.9	24.8	23.9
Women, 16 years and over:											
Married, spouse present .....	998	475	311	131	82	10.8	5.2	47.1	47.6	22.1	21.3
Widowed, divorced, or separated .....	643	290	205	93	55	11.6	5.6	45.1	45.1	23.6	23.2
Single (never married) .....	1,149	607	355	103	84	9.7	4.3	53.2	52.8	17.3	16.3

<sup>1</sup> Data not shown where base is less than 75,000.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-18. Unemployed persons by occupation, industry, and duration of unemployment**

Occupation and industry	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
	April 1990										
<b>OCCUPATION</b>											
Managerial and professional specialty .....	563	214	186	78	84	14.4	7.4	34.3	38.0	30.9	29.0
Technical, sales, and administrative support .....	1,443	638	454	220	131	11.6	5.8	47.1	44.2	23.8	24.3
Service occupations .....	1,054	527	295	110	122	11.9	4.5	52.3	50.0	22.1	22.0
Precision production, craft, and repair .....	827	309	261	170	87	14.2	7.9	38.9	37.4	33.0	31.0
Operators, fabricators, and laborers .....	1,694	707	508	251	229	14.6	6.4	35.7	41.7	31.1	28.3
Farming, forestry, and fishing .....	231	96	74	40	22	13.3	7.1	54.8	41.6	21.0	26.8
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	187	86	54	24	22	13.2	5.7	58.9	46.0	13.4	24.6
Construction .....	731	276	214	163	77	13.6	6.9	36.5	37.8	33.7	33.0
Manufacturing .....	1,244	467	431	180	166	14.9	7.3	41.5	37.5	29.4	27.7
Durable goods .....	694	226	247	112	109	16.4	8.6	39.3	32.6	31.2	31.8
Nondurable goods .....	550	241	185	68	56	13.0	5.7	44.1	43.8	27.4	22.5
Transportation and public utilities .....	314	123	106	56	29	12.8	7.3	35.6	39.2	32.7	27.4
Wholesale and retail trade .....	1,438	682	445	179	133	11.2	5.1	48.8	47.4	24.8	21.7
Finance and service industries .....	1,609	748	447	223	191	13.0	5.5	43.6	46.5	24.5	25.7
Public administration .....	97	32	38	10	17	15.8	7.4	34.9	33.0	34.7	27.8
No previous work experience .....	616	358	160	42	56	10.7	3.9	59.0	58.1	19.1	15.9

<sup>1</sup> Includes wage and salary workers only.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-19. Unemployed jobseekers by sex, age, race, and jobsearch methods used**

Sex, age, and race	April 1990								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	6,457	5,390	23.3	9.5	73.0	37.4	20.0	4.5	1.68
16 to 19 years .....	978	923	12.2	4.3	81.5	24.0	18.0	2.4	1.42
20 to 24 years .....	1,241	1,082	25.5	9.2	72.9	37.9	19.2	5.0	1.70
25 to 34 years .....	1,846	1,520	25.0	10.8	71.1	41.8	18.9	4.2	1.72
35 to 44 years .....	1,220	971	26.4	12.3	74.6	36.7	22.8	4.8	1.78
45 to 54 years .....	677	522	28.0	12.5	68.0	43.1	21.5	6.4	1.79
55 to 64 years .....	381	281	26.7	7.5	63.0	45.1	23.8	5.8	1.72
65 years and over .....	113	91	9.9	2.8	62.4	44.4	18.0	5.6	1.43
<b>Men, 16 years and over</b> .....	3,666	2,976	26.6	10.3	73.5	35.3	23.2	5.1	1.74
16 to 19 years .....	535	506	15.2	4.8	81.8	21.1	21.9	2.0	1.47
20 to 24 years .....	688	580	31.3	9.1	73.5	36.8	22.3	3.9	1.77
25 to 34 years .....	1,051	828	28.0	11.8	71.8	39.1	22.0	4.8	1.78
35 to 44 years .....	659	516	31.1	16.3	74.2	34.4	25.7	6.3	1.88
45 to 54 years .....	422	314	29.2	11.4	68.9	42.0	26.9	8.4	1.87
55 to 64 years .....	248	181	24.1	6.0	63.8	43.4	22.0	8.2	1.68
65 years and over .....	63	52	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Women, 16 years and over</b> .....	2,790	2,413	19.2	8.5	72.4	40.0	16.1	3.8	1.60
16 to 19 years .....	444	417	8.6	3.7	81.1	27.6	13.2	2.9	1.37
20 to 24 years .....	553	502	18.8	9.2	72.3	39.2	15.6	6.3	1.61
25 to 34 years .....	795	692	21.4	9.6	70.2	45.0	15.2	3.5	1.65
35 to 44 years .....	561	455	21.2	7.7	75.0	39.4	19.4	3.2	1.66
45 to 54 years .....	255	208	26.0	14.3	66.7	44.7	13.2	3.4	1.68
55 to 64 years .....	133	100	30.3	10.2	61.4	48.2	27.0	1.4	1.79
65 years and over .....	50	39	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>White, 16 years and over</b> .....	4,895	3,991	22.7	9.5	73.3	38.8	22.0	4.4	1.71
Men .....	2,822	2,242	26.2	10.3	73.2	36.8	25.8	5.4	1.78
Women .....	2,073	1,749	18.3	8.5	73.4	41.3	17.1	3.1	1.62
<b>Black, 16 years and over</b> .....	1,362	1,220	25.2	9.2	74.1	33.0	13.2	4.0	1.59
Men .....	725	628	28.7	10.2	76.9	29.9	14.4	2.5	1.63
Women .....	638	592	21.5	8.3	71.0	36.3	12.0	5.5	1.55

<sup>1</sup> Data not shown where base is less than 75,000.

NOTE: The jobseeker total is less than the total unemployed because it does not include persons on layoff or waiting to begin a new job within

30 days, groups for whom jobseeking information is not collected. The percent using each method will always total more than 100 because many jobseekers use more than one method.

**A-20. Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used**

Sex and reason	April 1990								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	6,457	5,390	23.3	9.5	73.0	37.4	20.0	4.5	1.68
Job losers <sup>1</sup> .....	3,213	2,224	30.0	11.2	74.3	39.6	23.2	4.7	1.83
Job leavers .....	1,065	1,031	20.9	11.0	73.3	40.9	19.5	4.4	1.70
Reentrants .....	1,625	1,590	18.6	7.1	71.3	35.4	15.2	4.8	1.52
New entrants .....	554	544	14.1	6.7	72.1	27.9	21.8	2.6	1.45
<b>Men, 16 years and over</b> .....	3,666	2,976	26.6	10.3	73.5	35.3	23.2	5.1	1.74
Job losers <sup>1</sup> .....	2,159	1,503	32.2	11.1	73.7	37.6	25.3	5.0	1.85
Job leavers .....	548	535	23.9	13.9	75.7	37.8	21.6	5.0	1.78
Reentrants .....	707	687	21.7	7.1	71.0	31.4	20.0	6.4	1.58
New entrants .....	253	251	12.7	6.5	74.2	26.3	22.5	2.0	1.44
<b>Women, 16 years and over</b> .....	2,790	2,413	19.2	8.5	72.4	40.0	16.1	3.8	1.60
Job losers <sup>1</sup> .....	1,054	721	25.6	11.3	75.5	43.6	18.9	4.2	1.79
Job leavers .....	517	496	17.7	7.8	70.8	44.1	17.2	3.8	1.61
Reentrants .....	918	903	16.2	7.2	71.6	38.4	11.5	3.7	1.49
New entrants .....	301	294	15.2	7.0	70.4	29.3	21.1	3.2	1.46

<sup>1</sup> Data on the number of jobseekers and the jobsearch methods used exclude persons on layoff.

NOTE: The jobseeker total is less than the total unemployed because it does not include persons on layoff or waiting to begin a new job within

30 days, groups for whom jobseeking information is not collected. The percent using each method will always total more than 100 because many jobseekers use more than one method.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-21. Employed civilians in agriculture and nonagricultural industries by age and sex**

(In thousands)

Industry and age	Total		Men		Women	
	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
All industries .....	116,347	117,359	63,664	63,993	52,683	53,366
16 to 19 years .....	6,338	6,072	3,234	3,145	3,105	2,927
16 to 17 years .....	2,386	2,215	1,211	1,144	1,175	1,070
18 to 19 years .....	3,952	3,858	2,023	2,001	1,930	1,857
20 to 24 years .....	12,797	12,375	6,735	6,485	6,063	5,890
25 to 54 years .....	82,273	84,026	45,070	45,910	37,204	38,116
25 to 34 years .....	33,839	33,951	18,788	18,748	15,051	15,203
35 to 44 years .....	29,170	30,432	15,777	16,509	13,393	13,923
45 to 54 years .....	19,264	19,644	10,504	10,653	8,760	8,991
55 to 64 years .....	11,499	11,346	6,582	6,433	4,918	4,913
55 to 59 years .....	6,826	6,759	3,887	3,785	2,938	2,973
60 to 64 years .....	4,674	4,587	2,694	2,648	1,979	1,939
65 years and over .....	3,439	3,540	2,044	2,019	1,395	1,521
Agriculture .....	3,116	3,102	2,472	2,423	644	679
16 to 19 years .....	240	208	196	160	44	48
16 to 17 years .....	102	97	85	74	16	23
18 to 19 years .....	138	111	110	86	28	25
20 to 24 years .....	367	328	307	278	60	51
25 to 54 years .....	1,800	1,887	1,397	1,454	403	434
25 to 34 years .....	788	803	645	629	143	174
35 to 44 years .....	620	621	462	460	158	161
45 to 54 years .....	392	464	291	365	102	99
55 to 64 years .....	414	421	316	313	97	108
55 to 59 years .....	204	229	144	161	60	68
60 to 64 years .....	210	192	172	151	37	41
65 years and over .....	296	258	256	219	40	39
Nonagricultural industries .....	113,231	114,257	61,192	61,570	52,039	52,687
16 to 19 years .....	6,098	5,865	3,038	2,986	3,060	2,879
16 to 17 years .....	2,284	2,118	1,126	1,070	1,159	1,047
18 to 19 years .....	3,814	3,747	1,912	1,915	1,902	1,832
20 to 24 years .....	12,430	12,046	6,428	6,207	6,003	5,839
25 to 54 years .....	80,473	82,139	43,673	44,456	36,801	37,683
25 to 34 years .....	33,051	33,148	18,144	18,119	14,907	15,029
35 to 44 years .....	28,551	29,811	15,316	16,049	13,235	13,762
45 to 54 years .....	18,871	19,180	10,213	10,288	8,658	8,892
55 to 64 years .....	11,086	10,925	6,265	6,121	4,821	4,805
55 to 59 years .....	6,622	6,530	3,743	3,624	2,878	2,906
60 to 64 years .....	4,464	4,396	2,522	2,497	1,942	1,899
65 years and over .....	3,143	3,282	1,788	1,800	1,355	1,482

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-22. Employed civilians by occupation, sex, and age**

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
<b>Total</b> .....	116,347	117,359	63,664	63,993	60,430	60,848	52,683	53,366	49,578	50,439
<b>Managerial and professional specialty</b> .....	30,568	30,529	16,781	16,489	16,706	16,410	13,786	14,040	13,687	13,942
Executive, administrative, and managerial .....	14,777	14,716	8,911	8,777	8,883	8,736	5,866	5,939	5,839	5,900
Officials and administrators, public administration .....	586	567	348	359	347	359	238	208	238	208
Other executive, administrative, and managerial .....	10,192	10,201	6,617	6,446	6,595	6,405	3,575	3,755	3,553	3,719
Management-related occupations .....	3,999	3,948	1,945	1,971	1,941	1,972	2,053	1,977	2,048	1,973
Professional specialty .....	15,791	15,813	7,871	7,712	7,823	7,674	7,920	8,100	7,848	8,042
Engineers .....	1,838	1,799	1,698	1,634	1,695	1,634	140	165	140	165
Mathematical and computer scientists .....	820	841	482	571	483	569	338	270	338	271
Natural scientists .....	480	432	369	320	369	320	111	112	111	112
Health diagnosing occupations .....	886	871	761	719	760	718	124	152	124	152
Health assessment and treating occupations .....	2,282	2,388	347	346	346	346	1,935	2,042	1,934	2,043
Teachers, college and university .....	764	802	432	502	430	499	333	300	329	292
Teachers, except college and university .....	4,076	4,023	1,136	1,093	1,123	1,082	2,939	2,930	2,909	2,907
Lawyers and judges .....	773	728	596	578	596	578	178	150	178	150
Other professional specialty occupations .....	3,871	3,929	2,049	1,950	2,021	1,928	1,822	1,979	1,785	1,950
<b>Technical, sales, and administrative support</b> .....	35,837	36,904	12,396	13,056	11,783	12,397	23,441	23,848	21,724	22,246
Technicians and related support .....	3,575	3,920	1,804	1,983	1,786	1,953	1,772	1,937	1,758	1,907
Health technologists and technicians .....	1,257	1,324	208	216	205	216	1,050	1,107	1,044	1,089
Engineering and science technicians .....	1,155	1,245	877	977	866	955	279	268	271	259
Technicians, except health, engineering, and science .....	1,163	1,351	719	789	715	782	443	562	443	558
Sales occupations .....	13,820	14,092	6,987	7,210	6,567	6,794	6,833	6,882	5,746	5,848
Supervisors and proprietors .....	3,690	3,854	2,458	2,528	2,441	2,511	1,232	1,326	1,196	1,302
Sales representatives, finance and business services .....	2,295	2,423	1,277	1,404	1,262	1,384	1,017	1,020	978	993
Sales representatives, commodities, except retail .....	1,613	1,549	1,264	1,188	1,254	1,183	348	360	339	347
Sales workers, retail and personal services .....	6,149	6,207	1,963	2,069	1,586	1,696	4,186	4,139	3,181	3,172
Sales-related occupations .....	74	59	24	21	24	21	50	38	51	35
Administrative support, including clerical .....	18,441	18,893	3,605	3,864	3,430	3,650	14,836	15,029	14,220	14,491
Supervisors .....	724	749	277	307	277	307	447	442	446	440
Computer equipment operators .....	921	791	324	269	309	260	597	522	571	510
Secretaries, stenographers, and typists .....	4,797	4,738	77	82	70	75	4,720	4,656	4,566	4,493
Financial records processing .....	2,364	2,479	203	214	192	208	2,161	2,265	2,114	2,224
Mail and message distributing .....	928	976	590	627	574	593	337	350	318	337
Other administrative support, including clerical .....	8,707	9,160	2,134	2,365	2,009	2,207	6,573	6,795	6,205	6,487
<b>Service occupations</b> .....	15,204	15,651	6,138	6,292	5,244	5,369	9,066	9,359	8,011	8,392
Private household .....	840	716	37	32	30	27	803	684	693	587
Protective service .....	1,918	1,930	1,640	1,637	1,620	1,606	279	293	269	276
Service, except private household and protective .....	12,446	13,005	4,461	4,623	3,595	3,735	7,985	8,382	7,049	7,529
Food service .....	5,242	5,264	2,111	2,130	1,458	1,480	3,131	3,135	2,465	2,576
Health service .....	2,024	2,100	197	214	182	202	1,827	1,886	1,712	1,802
Cleaning and building service .....	2,910	3,164	1,708	1,795	1,569	1,618	1,202	1,369	1,139	1,307
Personal service .....	2,270	2,476	445	484	386	435	1,825	1,992	1,733	1,844
<b>Precision production, craft, and repair</b> .....	13,560	13,646	12,468	12,523	12,165	12,276	1,092	1,123	1,075	1,098
Mechanics and repairers .....	4,555	4,388	4,417	4,240	4,326	4,151	138	148	137	147
Construction trades .....	4,905	5,173	4,813	5,081	4,664	4,975	93	92	92	92
Other precision production, craft, and repair .....	4,099	4,086	3,238	3,202	3,175	3,149	862	884	846	859
<b>Operators, fabricators, and laborers</b> .....	17,886	17,411	13,100	12,929	12,020	11,892	4,786	4,483	4,610	4,297
Machine operators, assemblers, and inspectors .....	8,257	7,795	4,798	4,589	4,629	4,416	3,460	3,206	3,375	3,120
Manufacturing industries .....	6,817	6,357	3,915	3,718	3,804	3,590	2,902	2,640	2,839	2,580
Durable goods .....	3,756	3,517	2,538	2,402	2,480	2,327	1,217	1,115	1,191	1,086
Nondurable goods .....	3,061	2,840	1,376	1,315	1,323	1,263	1,684	1,525	1,648	1,494
Nonmanufacturing industries .....	1,441	1,437	883	871	825	825	558	566	536	540
Transportation and material moving occupations .....	4,770	4,772	4,267	4,333	4,130	4,209	503	439	483	424
Motor vehicle operators .....	3,539	3,593	3,086	3,198	2,963	3,097	453	395	435	380
Other transportation and material moving occupations .....	1,230	1,179	1,181	1,135	1,167	1,111	50	44	48	44
Handlers, equipment cleaners, helpers, and laborers .....	4,859	4,845	4,035	4,007	3,261	3,267	824	838	752	753
Construction laborers .....	755	740	735	721	654	666	20	19	19	16
Other handlers, equipment cleaners, helpers, and laborers .....	4,104	4,104	3,300	3,285	2,607	2,602	805	819	733	736
<b>Farming, forestry, and fishing</b> .....	3,292	3,217	2,781	2,704	2,513	2,504	511	514	472	465
Farm operators and managers .....	1,247	1,207	1,058	1,036	1,044	1,031	189	171	189	170
Other farming, forestry, and fishing occupations .....	2,045	2,010	1,722	1,667	1,469	1,473	322	343	282	294

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-23. Employed civilians by occupation, race, and sex**

(Percent distribution)

Occupation and race	Total		Men		Women	
	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
<b>TOTAL</b>						
Total, 16 years and over (thousands) .....	116,347	117,359	63,664	63,993	52,683	53,366
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	26.3	26.0	26.4	25.8	26.2	26.3
Executive, administrative, and managerial .....	12.7	12.5	14.0	13.7	11.1	11.1
Professional specialty .....	13.6	13.5	12.4	12.1	15.0	15.2
Technical, sales, and administrative support .....	30.8	31.4	19.5	20.4	44.5	44.7
Technicians and related support .....	3.1	3.3	2.8	3.1	3.4	3.6
Sales occupations .....	11.9	12.0	11.0	11.3	13.0	12.9
Administrative support, including clerical .....	15.8	16.1	5.7	6.0	28.2	28.2
Service occupations .....	13.1	13.3	9.6	9.8	17.2	17.5
Private household .....	.7	.6	.1	.1	1.5	1.3
Protective service .....	1.6	1.6	2.6	2.6	.5	.5
Service, except private household and protective .....	10.7	11.1	7.0	7.2	15.2	15.7
Precision production, craft, and repair .....	11.7	11.6	19.6	19.6	2.1	2.1
Operators, fabricators, and laborers .....	15.4	14.8	20.6	20.2	9.1	8.4
Machine operators, assemblers, and inspectors .....	7.1	6.6	7.5	7.2	6.6	6.0
Transportation and material moving occupations .....	4.1	4.1	6.7	6.8	1.0	.8
Handlers, equipment cleaners, helpers, and laborers .....	4.2	4.1	6.3	6.3	1.6	1.6
Farming, forestry, and fishing .....	2.8	2.7	4.4	4.2	1.0	1.0
<b>White</b>						
Total, 16 years and over (thousands) .....	100,941	101,564	55,926	56,036	45,015	45,529
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	27.4	27.1	27.6	26.9	27.2	27.4
Executive, administrative, and managerial .....	13.5	13.2	14.9	14.5	11.7	11.6
Professional specialty .....	14.0	13.9	12.7	12.3	15.5	15.8
Technical, sales, and administrative support .....	31.1	31.8	19.6	20.7	45.4	45.5
Technicians and related support .....	3.0	3.3	2.9	3.1	3.2	3.5
Sales occupations .....	12.4	12.6	11.5	11.9	13.6	13.4
Administrative support, including clerical .....	15.6	15.9	5.2	5.7	28.5	28.5
Service occupations .....	11.9	12.1	8.7	8.9	15.9	16.1
Private household .....	.6	.5	.1	-	1.2	1.0
Protective service .....	1.6	1.5	2.4	2.4	.5	.5
Service, except private household and protective .....	9.8	10.1	6.2	6.4	14.2	14.7
Precision production, craft, and repair .....	12.1	12.1	20.2	20.2	2.0	2.0
Operators, fabricators, and laborers .....	14.5	14.0	19.4	18.9	8.4	8.0
Machine operators, assemblers, and inspectors .....	6.7	6.3	7.2	6.9	6.0	5.6
Transportation and material moving occupations .....	4.0	3.9	6.4	6.3	.9	.8
Handlers, equipment cleaners, helpers, and laborers .....	3.9	3.8	5.8	5.6	1.5	1.5
Farming, forestry, and fishing .....	3.0	2.9	4.6	4.5	1.1	1.1
<b>Black</b>						
Total, 16 years and over (thousands) .....	11,699	11,973	5,775	5,887	5,924	6,086
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty .....	15.7	15.7	13.0	13.5	18.3	17.9
Executive, administrative, and managerial .....	6.6	7.1	6.1	6.9	7.0	7.3
Professional specialty .....	9.1	8.6	6.8	6.6	11.3	10.6
Technical, sales, and administrative support .....	27.8	28.2	16.5	15.9	38.8	40.1
Technicians and related support .....	2.9	3.1	2.0	2.4	3.8	3.8
Sales occupations .....	7.0	7.1	5.4	5.1	8.6	9.0
Administrative support, including clerical .....	17.9	18.0	9.1	8.3	26.5	27.4
Service occupations .....	22.4	22.9	17.9	18.0	26.9	27.6
Private household .....	2.0	1.8	.1	.1	3.8	3.5
Protective service .....	2.7	2.6	4.7	4.2	.7	1.1
Service, except private household and protective .....	17.8	18.5	13.1	13.8	22.3	23.1
Precision production, craft, and repair .....	9.2	8.9	16.2	15.5	2.5	2.4
Operators, fabricators, and laborers .....	23.1	22.8	33.5	34.4	13.1	11.5
Machine operators, assemblers, and inspectors .....	10.6	9.4	11.5	10.1	9.7	8.6
Transportation and material moving occupations .....	5.8	6.2	10.3	11.7	1.4	.9
Handlers, equipment cleaners, helpers, and laborers .....	6.8	7.2	11.6	12.6	2.0	1.9
Farming, forestry, and fishing .....	1.7	1.5	3.0	2.6	.4	.4

A-24. Employed civilians by age, sex, and class of worker

(In thousands)

Age and sex	April 1990								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over .....	105,258	930	17,941	86,387	8,725	274	1,593	1,400	109
16 to 19 years .....	5,787	133	305	5,350	59	18	170	17	21
16 to 17 years .....	2,088	72	78	1,937	21	9	72	10	15
18 to 19 years .....	3,700	60	226	3,413	38	9	97	8	6
20 to 24 years .....	11,745	70	1,149	10,525	278	23	255	70	3
25 to 34 years .....	31,102	168	4,433	26,502	1,996	50	480	305	18
35 to 44 years .....	27,107	134	5,660	21,313	2,632	73	298	303	20
45 to 54 years .....	17,214	136	3,837	13,240	1,907	60	196	244	23
55 to 64 years .....	9,640	157	2,092	7,391	1,251	35	145	264	12
55 to 59 years .....	5,820	76	1,260	4,484	690	20	76	144	9
60 to 64 years .....	3,820	81	832	2,907	561	15	69	120	2
65 years and over .....	2,664	132	465	2,067	603	16	49	196	13
Men, 16 years and over .....	55,973	129	8,300	47,544	5,549	49	1,194	1,195	33
16 to 19 years .....	2,938	28	134	2,776	38	10	127	17	15
16 to 17 years .....	1,053	21	40	992	11	6	54	10	10
18 to 19 years .....	1,885	7	94	1,784	27	3	73	8	5
20 to 24 years .....	6,060	13	494	5,553	140	8	216	59	3
25 to 34 years .....	16,915	39	2,124	14,752	1,196	8	353	273	2
35 to 44 years .....	14,369	15	2,568	11,786	1,668	12	212	245	3
45 to 54 years .....	9,086	6	1,752	7,328	1,200	2	150	213	2
55 to 64 years .....	5,231	13	1,005	4,212	887	3	99	209	4
55 to 59 years .....	3,148	5	597	2,546	475	1	51	108	3
60 to 64 years .....	2,083	8	409	1,667	412	2	49	101	1
65 years and over .....	1,375	14	223	1,137	419	6	36	178	5
Women, 16 years and over .....	49,285	801	9,641	38,843	3,176	225	399	205	76
16 to 19 years .....	2,849	105	171	2,574	21	8	42	-	6
16 to 17 years .....	1,035	51	38	946	10	2	18	-	5
18 to 19 years .....	1,814	54	132	1,628	11	6	24	-	1
20 to 24 years .....	5,685	57	655	4,973	138	16	39	11	1
25 to 34 years .....	14,187	128	2,309	11,750	800	42	127	32	16
35 to 44 years .....	12,738	118	3,092	9,527	963	60	86	58	17
45 to 54 years .....	8,127	130	2,086	5,912	707	58	46	31	21
55 to 64 years .....	4,409	144	1,087	3,178	364	32	46	55	7
55 to 59 years .....	2,672	71	664	1,938	215	18	25	36	6
60 to 64 years .....	1,737	73	423	1,241	149	13	21	19	1
65 years and over .....	1,289	118	242	929	184	9	13	18	8

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-25. Employed civilians by industry and occupation**

(In thousands)

Industry	April 1990												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service <sup>1</sup>		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture .....	3,102	91	73	32	29	122	-	30	35	8	64	18	2,600
Mining .....	730	131	66	29	8	79	-	3	234	25	115	39	2
Construction .....	7,687	1,006	123	54	67	421	-	40	4,491	103	516	838	27
Manufacturing .....	20,867	2,471	1,736	736	800	2,398	-	344	4,046	6,357	779	1,111	88
Durable goods .....	12,441	1,488	1,155	510	333	1,412	-	169	2,795	3,517	410	564	88
Nondurable goods .....	8,426	983	582	226	468	986	-	174	1,250	2,840	369	547	-
Transportation and public utilities .....	8,079	896	469	352	352	2,156	-	292	1,236	113	1,709	492	13
Wholesale and retail trade .....	24,066	1,989	474	142	10,019	2,358	-	4,399	1,439	345	980	1,882	41
Wholesale trade .....	4,560	544	85	53	1,785	803	-	36	288	129	464	368	6
Retail trade .....	19,507	1,445	389	88	8,234	1,556	-	4,362	1,152	216	516	1,514	35
Finance, insurance, and real estate .....	8,048	2,158	238	173	1,850	3,103	-	275	152	14	20	12	52
Services .....	39,060	4,786	11,805	2,141	936	6,684	716	8,155	1,752	795	523	415	352
Private households .....	938	3	17	3	1	7	716	88	14	4	10	12	62
Other service industries .....	38,122	4,784	11,788	2,138	935	6,677	-	8,067	1,737	791	512	402	290
Professional services .....	25,473	2,664	10,495	1,730	149	4,824	-	4,539	380	211	291	117	72
Public administration .....	5,720	1,187	830	261	30	1,571	-	1,396	262	36	66	38	43

<sup>1</sup> Includes protective service, not shown separately.

**A-26. Employed civilians with a job but not at work by reason, sex, and pay status**

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
	Apr. 1989	Apr. 1990	Total		Wage and salary workers <sup>1</sup>			
			Apr. 1989	Apr. 1990	Paid absences		Unpaid absences	
					Apr. 1989	Apr. 1990	Apr. 1989	Apr. 1990
Total, 16 years and over .....	4,576	6,497	4,489	6,415	2,168	3,573	1,752	2,315
Vacation .....	1,930	3,777	1,920	3,757	1,279	2,619	451	897
Illness .....	1,409	1,452	1,382	1,438	598	650	649	714
Bad weather .....	104	88	89	71	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Industrial dispute .....	29	11	29	11	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
All other reasons .....	1,105	1,170	1,070	1,138	291	304	652	704
Men, 16 years and over .....	2,310	2,910	2,244	2,849	1,138	1,630	769	939
Vacation .....	1,066	1,669	1,060	1,654	735	1,204	220	332
Illness .....	693	702	670	695	304	323	286	337
All other reasons <sup>3</sup> .....	551	539	515	499	99	103	264	270
Women, 16 years and over .....	2,266	3,588	2,245	3,566	1,030	1,944	985	1,375
Vacation .....	864	2,108	860	2,103	544	1,416	231	564
Illness .....	715	750	712	743	293	328	365	377
All other reasons <sup>3</sup> .....	686	730	673	722	192	200	389	434

<sup>1</sup> Excludes private household workers.

<sup>2</sup> Pay status not available separately for bad weather and industrial dispute; these categories are included in all other reasons.

<sup>3</sup> Includes bad weather and industrial dispute, not shown separately.  
NOTE: Estimates for "all other reasons" by pay status may be biased because of high response variance; data should be used with caution.



**A-27. Persons at work by hours of work and type of industry**

Hours of work	April 1990					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over .....	110,862	3,020	107,843	100.0	100.0	100.0
1 to 34 hours .....	31,961	825	31,135	28.8	27.3	28.9
1 to 4 hours .....	817	38	779	.7	1.3	.7
5 to 14 hours .....	4,764	183	4,581	4.3	6.1	4.2
15 to 29 hours .....	14,163	406	13,756	12.8	13.4	12.8
30 to 34 hours .....	12,218	199	12,019	11.0	6.6	11.1
35 hours and over .....	78,902	2,194	76,707	71.2	72.6	71.1
35 to 39 hours .....	7,627	132	7,495	6.9	4.4	6.9
40 hours .....	41,111	729	40,381	37.1	24.1	37.4
41 hours and over .....	30,163	1,333	28,831	27.2	44.1	26.7
41 to 48 hours .....	10,355	202	10,153	9.3	6.7	9.4
49 to 59 hours .....	11,287	428	10,860	10.2	14.2	10.1
60 hours and over .....	8,521	703	7,819	7.7	23.3	7.3
Average hours, total at work .....	38.5	43.3	38.4	-	-	-
Average hours, workers on full-time schedules .....	42.7	50.2	42.5	-	-	-

**A-28. Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry, and usual status**

(Numbers in thousands)

Reason for working less than 35 hours	April 1990					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over .....	31,961	13,054	18,906	31,135	12,806	18,329
Economic reasons .....	4,574	1,574	3,000	4,385	1,496	2,889
Slack work .....	2,318	1,305	1,013	2,176	1,236	940
Material shortages or repairs to plant and equipment .....	35	35	-	35	35	-
New job started during week .....	164	164	-	156	156	-
Job terminated during week .....	71	71	-	70	70	-
Could find only part-time work .....	1,986	-	1,986	1,949	-	1,949
Other reasons .....	27,387	11,480	15,907	26,751	11,310	15,441
Does not want, or unavailable for, full-time work .....	13,609	-	13,609	13,244	-	13,244
Vacation .....	2,079	2,079	-	2,051	2,051	-
Illness .....	1,381	1,229	152	1,365	1,221	144
Bad weather .....	433	433	-	358	358	-
Industrial dispute .....	8	8	-	8	8	-
Legal or religious holiday .....	6,397	6,397	-	6,375	6,375	-
Full time for this job .....	1,505	-	1,505	1,468	-	1,468
All other reasons .....	1,976	1,335	641	1,882	1,297	585
Average hours:						
Economic reasons .....	22.6	24.1	21.7	22.7	24.2	21.9
Other reasons .....	22.9	28.1	19.2	23.0	28.1	19.2
Worked 30 to 34 hours:						
Economic reasons .....	1,551	667	884	1,510	639	871
Other reasons .....	10,668	7,853	2,815	10,509	7,757	2,752

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-29. Persons at work in nonagricultural industries by class of worker and full- or part-time status**

(Numbers in thousands)

Industry	April 1990								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over .....	107,843	4,385	15,441	88,017	59,186	10,153	18,678	38.4	42.5
Wage and salary workers .....	99,328	3,817	13,888	81,624	56,295	9,570	15,759	38.2	42.1
Mining .....	675	15	5	655	387	98	169	43.6	44.4
Construction .....	5,893	392	238	5,263	3,783	533	947	39.6	41.8
Manufacturing .....	19,522	472	673	18,377	13,072	2,380	2,925	40.0	41.1
Durable goods .....	11,690	212	287	11,191	8,037	1,398	1,757	40.2	41.0
Nondurable goods .....	7,831	260	385	7,186	5,035	983	1,168	39.8	41.4
Transportation and public utilities .....	7,265	194	436	6,634	4,407	831	1,397	41.1	42.9
Wholesale and retail trade .....	21,116	1,181	5,246	14,689	8,998	2,117	3,575	36.6	43.7
Finance, insurance, and real estate .....	7,138	123	624	6,392	4,546	670	1,175	39.5	41.7
Service industries .....	32,255	1,390	6,372	24,493	17,247	2,427	4,819	36.5	42.0
Private households .....	896	144	367	385	245	43	97	28.3	45.9
All other industries .....	31,359	1,246	6,005	24,108	17,001	2,385	4,722	36.8	41.9
Public administration .....	5,464	51	294	5,119	3,855	513	751	40.0	41.4
Self-employed workers .....	8,240	558	1,424	6,258	2,821	575	2,862	40.8	47.9
Unpaid family workers .....	274	10	129	135	71	8	57	35.3	48.9

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-30. Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status**

(Numbers in thousands)

Sex, age, race, and marital status	April 1990							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
<b>TOTAL</b>								
Total, 16 years and over .....	107,843	4,385	15,441	88,017	59,186	28,831	38.4	42.5
16 to 19 years .....	5,622	378	3,554	1,691	1,373	318	23.8	39.5
16 to 17 years .....	1,980	63	1,746	171	146	25	17.1	36.0
18 to 19 years .....	3,642	315	1,808	1,520	1,227	293	27.5	39.9
20 years and over .....	102,220	4,007	11,887	86,326	57,813	28,513	39.2	42.6
20 to 24 years .....	11,619	684	2,258	8,677	6,222	2,455	36.1	41.4
25 years and over .....	90,602	3,323	9,628	77,650	51,592	26,058	39.6	42.7
25 to 44 years .....	59,583	2,266	5,279	52,038	34,181	17,857	40.1	42.8
45 to 64 years .....	28,033	937	2,922	24,174	16,349	7,825	39.6	42.6
65 years and over .....	2,986	119	1,428	1,439	1,061	379	28.9	41.4
<b>Men, 16 years and over</b> .....	58,722	2,108	4,756	51,858	31,426	20,432	41.2	44.0
16 to 19 years .....	2,875	172	1,673	1,030	819	211	25.4	39.8
16 to 17 years .....	1,012	43	865	103	91	12	17.8	36.7
18 to 19 years .....	1,864	129	807	927	728	199	29.5	40.2
20 years and over .....	55,846	1,936	3,083	50,828	30,607	20,221	42.0	44.1
20 to 24 years .....	6,027	350	979	4,698	3,149	1,548	37.6	42.5
25 years and over .....	49,819	1,586	2,104	46,130	27,458	18,672	42.5	44.3
25 to 44 years .....	32,778	1,084	806	30,888	18,041	12,847	43.2	44.5
45 to 64 years .....	15,402	440	583	14,379	8,823	5,556	42.4	43.9
65 years and over .....	1,639	62	714	863	594	269	30.4	42.2
<b>Women, 16 years and over</b> .....	49,121	2,277	10,685	36,159	27,760	8,399	35.0	40.4
16 to 19 years .....	2,747	205	1,881	660	554	107	22.2	39.0
16 to 17 years .....	968	20	881	68	55	13	16.3	( <sup>1</sup> )
18 to 19 years .....	1,779	186	1,000	593	499	94	25.4	39.4
20 years and over .....	46,374	2,072	8,804	35,498	27,206	8,292	35.8	40.4
20 to 24 years .....	5,592	334	1,279	3,979	3,072	906	34.4	40.1
25 years and over .....	40,782	1,738	7,525	31,520	24,134	7,386	36.0	40.5
25 to 44 years .....	26,805	1,182	4,473	21,150	16,141	5,009	36.4	40.4
45 to 64 years .....	12,631	498	2,338	9,795	7,527	2,268	36.2	40.6
65 years and over .....	1,347	57	714	576	467	109	26.9	40.3
<b>RACE</b>								
White, 16 years and over .....	93,120	3,573	13,807	75,740	49,571	26,169	38.4	42.7
Men .....	51,264	1,698	4,159	45,407	26,673	18,735	41.4	44.2
Women .....	41,856	1,875	9,648	30,333	22,898	7,434	34.8	40.5
Black, 16 years and over .....	11,113	671	1,118	9,323	7,491	1,832	37.8	41.1
Men .....	5,504	332	382	4,790	3,651	1,138	39.4	42.1
Women .....	5,609	339	736	4,533	3,839	694	36.3	39.9
<b>MARITAL STATUS</b>								
<b>Men, 16 years and over:</b>								
Married, spouse present .....	37,131	931	1,448	34,751	20,165	14,586	43.0	44.5
Widowed, divorced, or separated .....	6,207	333	308	5,566	3,376	2,189	41.8	44.3
Single (never married) .....	15,384	844	2,999	11,541	7,885	3,656	36.7	42.6
<b>Women, 16 years and over:</b>								
Married, spouse present .....	27,214	1,077	6,149	19,989	15,648	4,341	34.9	40.1
Widowed, divorced, or separated .....	9,841	556	1,200	8,085	6,023	2,062	37.6	41.2
Single (never married) .....	12,066	645	3,337	8,085	6,088	1,996	33.3	40.5

<sup>1</sup> Data not shown where base is less than 75,000.

**HOUSEHOLD DATA  
NOT SEASONALLY ADJUSTED**

**A-31. Persons at work in nonfarm occupations by sex and full- or part-time status**

(Numbers in thousands)

Occupation and sex	April 1990								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over <sup>1</sup>	107,752	4,359	15,425	87,967	59,088	10,148	18,731	38.4	42.5
Managerial and professional specialty	28,358	456	2,657	25,245	14,748	2,948	7,548	41.3	43.9
Executive, administrative, and managerial	13,998	174	754	13,070	7,127	1,612	4,332	43.3	44.9
Professional specialty	14,359	282	1,904	12,174	7,622	1,336	3,216	39.3	42.9
Technical, sales, and administrative support	35,124	1,099	6,543	27,481	19,420	2,975	5,087	37.1	41.9
Technicians and related support	3,763	38	475	3,250	2,383	389	478	38.6	41.4
Sales occupations	13,465	576	2,864	10,025	5,366	1,319	3,340	38.6	45.1
Administrative support, including clerical	17,896	485	3,204	14,206	11,670	1,267	1,269	35.6	39.7
Service occupations	14,784	1,188	4,180	9,416	6,890	937	1,588	33.9	42.1
Private household	689	100	296	292	187	33	73	27.8	44.7
Protective service	1,821	36	147	1,637	1,000	273	364	42.1	44.7
Service, except private household and protective	12,275	1,052	3,737	7,486	5,703	632	1,151	33.0	41.5
Precision production, craft, and repair	12,969	608	465	11,896	8,126	1,531	2,239	40.7	42.4
Operators, fabricators, and laborers	16,517	1,008	1,580	13,930	9,904	1,757	2,268	38.6	41.8
Machine operators, assemblers, and inspectors	7,447	382	372	6,693	5,174	795	723	38.5	40.4
Transportation and material moving occupations	4,443	201	370	3,872	2,170	530	1,172	42.1	45.3
Handlers, equipment cleaners, helpers, and laborers	4,627	425	838	3,365	2,560	432	373	35.3	40.8
Men, 16 years and over <sup>1</sup>	58,470	2,082	4,703	51,685	31,259	6,469	13,957	41.2	44.0
Managerial and professional specialty	15,648	220	721	14,707	7,521	1,701	5,485	44.2	45.8
Executive, administrative, and managerial	8,389	103	262	8,023	3,827	984	3,211	45.3	46.5
Professional specialty	7,259	116	458	6,684	3,693	717	2,274	42.9	44.9
Technical, sales, and administrative support	12,572	276	1,368	10,928	6,086	1,446	3,396	41.5	44.9
Technicians and related support	1,911	12	133	1,765	1,206	204	356	40.7	42.4
Sales occupations	6,970	144	762	6,064	2,603	867	2,595	43.6	47.4
Administrative support, including clerical	3,691	119	473	3,098	2,277	375	446	37.7	41.3
Service occupations	6,004	341	1,190	4,473	3,079	491	903	37.2	43.4
Private household	33	11	10	12	5	-	7	( <sup>2</sup> )	( <sup>2</sup> )
Protective service	1,552	28	98	1,425	843	237	346	43.2	45.3
Service, except private household and protective	4,420	302	1,082	3,036	2,232	254	550	35.1	42.4
Precision production, craft, and repair	11,918	537	362	11,020	7,428	1,424	2,168	41.0	42.5
Operators, fabricators, and laborers	12,328	708	1,062	10,557	7,145	1,407	2,005	39.5	42.7
Machine operators, assemblers, and inspectors	4,410	173	140	4,096	3,002	542	552	39.9	41.3
Transportation and material moving occupations	4,087	179	237	3,672	2,047	502	1,123	42.8	45.4
Handlers, equipment cleaners, helpers, and laborers	3,831	357	685	2,789	2,095	364	330	35.4	41.0
Women, 16 years and over <sup>1</sup>	49,282	2,278	10,722	36,282	27,829	3,679	4,774	35.0	40.4
Managerial and professional specialty	12,710	236	1,937	10,538	7,228	1,247	2,063	37.7	41.4
Executive, administrative, and managerial	5,609	71	491	5,047	3,299	627	1,121	40.3	42.4
Professional specialty	7,101	165	1,445	5,490	3,929	620	942	35.6	40.4
Technical, sales, and administrative support	22,552	824	5,175	16,553	13,333	1,529	1,691	34.6	39.9
Technicians and related support	1,852	26	341	1,484	1,177	185	122	36.4	40.2
Sales occupations	6,495	432	2,102	3,961	2,764	452	746	33.3	41.7
Administrative support, including clerical	14,205	366	2,732	11,108	9,393	892	823	35.0	39.2
Service occupations	8,780	847	2,990	4,943	3,811	446	686	31.6	41.0
Private household	656	89	286	281	182	33	66	27.7	44.3
Protective service	269	8	49	212	158	36	19	35.6	40.6
Service, except private household and protective	7,855	750	2,655	4,450	3,471	378	601	31.8	40.8
Precision production, craft, and repair	1,051	72	103	876	698	107	71	37.4	40.1
Operators, fabricators, and laborers	4,189	299	517	3,373	2,759	350	263	35.8	39.3
Machine operators, assemblers, and inspectors	3,037	209	231	2,597	2,172	253	171	36.4	38.8
Transportation and material moving occupations	356	22	133	200	123	28	49	33.8	44.0
Handlers, equipment cleaners, helpers, and laborers	797	68	153	575	465	68	43	34.7	39.6

<sup>1</sup> Excludes farming, forestry, and fishing occupations.

<sup>2</sup> Data not shown where base is less than 75,000.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-32. Employment status of the noninstitutional population, including Armed forces stationed in the United States, by sex, seasonally adjusted**

(Numbers in thousands)

Employment status and sex	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>TOTAL</b>													
Noninstitutional population <sup>1</sup> .....	187,708	187,854	187,995	188,149	188,286	188,428	188,580	188,721	188,865	188,990	189,090	189,198	189,326
Labor force <sup>1</sup> .....	125,299	125,224	125,777	125,679	125,758	125,725	125,857	126,192	126,246	126,094	126,308	126,498	126,543
Percent of population <sup>2</sup> .....	66.8	66.7	66.9	66.8	66.8	66.7	66.7	66.9	66.8	66.7	66.8	66.9	66.8
Total employed <sup>1</sup> .....	118,768	118,805	119,208	119,102	119,238	119,121	119,294	119,540	119,588	119,560	119,713	120,003	119,773
Employment-population ratio <sup>3</sup> .....	63.3	63.2	63.4	63.3	63.3	63.2	63.3	63.3	63.3	63.3	63.3	63.4	63.3
Resident Armed Forces .....	1,684	1,673	1,666	1,666	1,688	1,702	1,709	1,704	1,700	1,697	1,678	1,669	1,657
Civilian employed .....	117,084	117,132	117,542	117,436	117,550	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116
Agriculture .....	3,144	3,137	3,138	3,217	3,275	3,219	3,197	3,160	3,197	3,134	3,079	3,200	3,133
Nonagricultural industries .....	113,940	113,995	114,404	114,219	114,275	114,200	114,388	114,676	114,691	114,728	114,957	115,133	114,983
Unemployed .....	6,531	6,419	6,569	6,577	6,520	6,604	6,563	6,652	6,658	6,535	6,594	6,495	6,770
Unemployment rate <sup>4</sup> .....	5.2	5.1	5.2	5.2	5.2	5.3	5.2	5.3	5.3	5.2	5.2	5.1	5.3
Not in labor force .....	62,409	62,630	62,218	62,470	62,528	62,703	62,723	62,529	62,619	62,896	62,782	62,700	62,783
<b>Men</b>													
Noninstitutional population <sup>1</sup> .....	90,094	90,167	90,237	90,315	90,384	90,456	90,535	90,606	90,678	90,772	90,822	90,874	90,942
Labor force <sup>1</sup> .....	69,293	69,142	69,542	69,366	69,404	69,360	69,599	69,635	69,725	69,539	69,639	69,712	69,779
Percent of population <sup>2</sup> .....	76.9	76.7	77.1	76.8	76.8	76.7	76.9	76.9	76.9	76.6	76.7	76.7	76.7
Total employed <sup>1</sup> .....	65,727	65,713	66,078	65,939	65,919	65,681	66,046	66,011	66,143	65,943	66,108	66,208	66,043
Employment-population ratio <sup>3</sup> .....	73.0	72.9	73.2	73.0	72.9	72.6	73.0	72.9	72.9	72.6	72.8	72.9	72.6
Resident Armed Forces .....	1,521	1,511	1,501	1,499	1,519	1,531	1,533	1,529	1,525	1,523	1,506	1,497	1,499
Civilian employed .....	64,206	64,202	64,577	64,440	64,400	64,150	64,513	64,482	64,618	64,420	64,602	64,711	64,544
Unemployed .....	3,566	3,429	3,464	3,427	3,485	3,679	3,553	3,624	3,582	3,597	3,530	3,505	3,735
Unemployment rate <sup>4</sup> .....	5.1	5.0	5.0	4.9	5.0	5.3	5.1	5.2	5.1	5.2	5.1	5.0	5.4
Not in labor force .....	20,801	21,025	20,695	20,949	20,980	21,096	20,936	20,971	20,953	21,233	21,183	21,162	21,163
<b>Women</b>													
Noninstitutional population <sup>1</sup> .....	97,614	97,687	97,758	97,834	97,902	97,972	98,045	98,115	98,187	98,218	98,268	98,324	98,383
Labor force <sup>1</sup> .....	56,006	56,082	56,235	56,313	56,354	56,365	56,258	56,557	56,521	56,555	56,669	56,785	56,764
Percent of population <sup>2</sup> .....	57.4	57.4	57.5	57.6	57.6	57.5	57.4	57.6	57.6	57.6	57.7	57.8	57.7
Total employed <sup>1</sup> .....	53,041	53,092	53,130	53,163	53,319	53,440	53,248	53,529	53,445	53,617	53,605	53,795	53,729
Employment-population ratio <sup>3</sup> .....	54.3	54.3	54.3	54.3	54.5	54.5	54.3	54.6	54.4	54.6	54.5	54.7	54.6
Resident Armed Forces .....	163	162	165	167	169	171	176	175	175	174	172	172	158
Civilian employed .....	52,878	52,930	52,965	52,996	53,150	53,269	53,072	53,354	53,270	53,443	53,433	53,623	53,571
Unemployed .....	2,965	2,990	3,105	3,150	3,035	2,925	3,010	3,028	3,076	2,938	3,064	2,990	3,034
Unemployment rate <sup>4</sup> .....	5.3	5.3	5.5	5.6	5.4	5.2	5.4	5.4	5.4	5.2	5.4	5.3	5.3
Not in labor force .....	41,608	41,605	41,523	41,521	41,548	41,607	41,787	41,558	41,666	41,663	41,599	41,539	41,619

<sup>1</sup> Includes members of the Armed Forces stationed in the United States.

<sup>2</sup> Labor force as a percent of the noninstitutional population.

<sup>3</sup> Total employment as a percent of the noninstitutional population.

<sup>4</sup> Unemployment as a percent of the labor force (including the resident

Armed Forces).

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-32 through A-41 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-33. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted**

(Numbers in thousands)

Employment status, sex, and age	1989								1990				
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>TOTAL</b>													
Civilian noninstitutional population <sup>1</sup> .....	186,024	186,181	186,329	186,483	186,598	186,726	186,871	187,017	187,165	187,293	187,412	187,529	187,669
Civilian labor force .....	123,615	123,551	124,111	124,013	124,070	124,023	124,148	124,488	124,546	124,397	124,630	124,829	124,886
Percent of population .....	66.5	66.4	66.6	66.5	66.5	66.4	66.4	66.6	66.5	66.4	66.5	66.6	66.5
Employed .....	117,084	117,132	117,542	117,436	117,550	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116
Employment-population ratio <sup>2</sup> .....	62.9	62.9	63.1	63.0	63.0	62.9	62.9	63.0	63.0	62.9	63.0	63.1	62.9
Unemployed .....	6,531	6,419	6,569	6,577	6,520	6,604	6,563	6,652	6,658	6,535	6,594	6,495	6,770
Unemployment rate .....	5.3	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.4
<b>Men, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	81,413	81,524	81,592	81,679	81,754	81,790	81,905	81,968	82,055	82,168	82,248	82,378	82,487
Civilian labor force .....	63,638	63,535	63,874	63,736	63,717	63,771	63,918	63,967	64,071	63,958	64,101	64,183	64,251
Percent of population .....	78.2	77.9	78.3	78.0	77.9	78.0	78.0	78.0	78.1	77.8	77.9	77.9	77.9
Employed .....	60,716	60,774	61,072	60,915	60,861	60,729	61,026	61,033	61,154	60,976	61,172	61,270	61,138
Employment-population ratio <sup>2</sup> .....	74.6	74.5	74.9	74.6	74.4	74.2	74.5	74.5	74.5	74.2	74.4	74.4	74.1
Agriculture .....	2,270	2,295	2,279	2,329	2,340	2,330	2,304	2,292	2,293	2,269	2,254	2,268	2,258
Nonagricultural industries .....	58,446	58,479	58,793	58,586	58,521	58,399	58,722	58,741	58,861	58,706	58,918	59,002	58,879
Unemployed .....	2,922	2,761	2,802	2,821	2,856	3,042	2,892	2,934	2,917	2,983	2,929	2,913	3,113
Unemployment rate .....	4.6	4.3	4.4	4.4	4.5	4.8	4.5	4.6	4.6	4.7	4.6	4.5	4.8
Not in labor force .....	17,775	17,989	17,718	17,943	18,037	18,019	17,987	18,001	17,984	18,210	18,147	18,195	18,236
<b>Women, 20 years and over</b>													
Civilian noninstitutional population <sup>1</sup> .....	90,318	90,432	90,526	90,607	90,684	90,771	90,860	90,952	91,042	91,091	91,157	91,237	91,330
Civilian labor force .....	52,009	52,120	52,219	52,385	52,352	52,358	52,281	52,541	52,586	52,686	52,814	52,800	52,954
Percent of population .....	57.6	57.6	57.7	57.8	57.7	57.7	57.5	57.8	57.8	57.8	57.9	57.9	58.0
Employed .....	49,560	49,649	49,687	49,817	49,875	49,984	49,796	50,043	50,048	50,255	50,287	50,344	50,427
Employment-population ratio <sup>2</sup> .....	54.9	54.9	54.9	55.0	55.0	55.1	54.8	55.0	55.0	55.2	55.2	55.2	55.2
Agriculture .....	638	633	622	639	642	660	641	624	618	594	582	648	669
Nonagricultural industries .....	48,922	49,016	49,065	49,178	49,233	49,324	49,155	49,419	49,430	49,661	49,704	49,696	49,758
Unemployed .....	2,449	2,471	2,532	2,568	2,477	2,374	2,485	2,498	2,538	2,431	2,527	2,456	2,526
Unemployment rate .....	4.7	4.7	4.8	4.9	4.7	4.5	4.8	4.8	4.8	4.6	4.8	4.7	4.8
Not in labor force .....	38,309	38,312	38,307	38,222	38,332	38,413	38,579	38,411	38,456	38,405	38,343	38,437	38,376
<b>Both sexes, 16 to 19 years</b>													
Civilian noninstitutional population <sup>1</sup> .....	14,293	14,224	14,211	14,196	14,160	14,166	14,107	14,097	14,067	14,034	14,008	13,914	13,852
Civilian labor force .....	7,968	7,896	8,018	7,892	8,001	7,894	7,949	7,980	7,889	7,752	7,715	7,846	7,681
Percent of population .....	55.7	55.5	56.4	55.6	56.5	55.7	56.3	56.6	56.1	55.2	55.1	56.4	55.4
Employed .....	6,808	6,709	6,783	6,704	6,814	6,706	6,763	6,760	6,686	6,631	6,577	6,720	6,551
Employment-population ratio <sup>2</sup> .....	47.6	47.2	47.7	47.2	48.1	47.3	47.9	48.0	47.5	47.3	47.0	48.3	47.3
Agriculture .....	236	209	237	249	293	229	252	244	286	270	243	285	206
Nonagricultural industries .....	6,572	6,500	6,546	6,455	6,521	6,477	6,511	6,516	6,400	6,361	6,334	6,435	6,345
Unemployed .....	1,160	1,187	1,235	1,188	1,187	1,188	1,186	1,220	1,203	1,121	1,138	1,126	1,130
Unemployment rate .....	14.6	15.0	15.4	15.1	14.8	15.0	14.9	15.3	15.2	14.5	14.8	14.4	14.7
Not in labor force .....	6,325	6,328	6,193	6,304	6,159	6,272	6,158	6,117	6,178	6,282	6,293	6,068	6,171

<sup>1</sup> The population figures are not adjusted for seasonal variation.

<sup>2</sup> Civilian employment as a percent of the civilian noninstitutional

population.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-34. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted**

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>WHITE</b>													
Civilian noninstitutional population <sup>1</sup> .....	159,098	159,200	159,297	159,400	159,470	159,549	159,644	159,736	159,832	159,938	160,007	160,076	160,170
Civilian labor force .....	106,208	106,152	106,474	106,384	106,485	106,393	106,618	106,834	106,896	106,884	107,080	107,061	107,133
Percent of population .....	66.8	66.7	66.8	66.7	66.8	66.7	66.8	66.9	66.9	66.8	66.9	66.9	66.9
Employed .....	101,400	101,432	101,683	101,546	101,684	101,579	101,862	101,991	102,032	102,074	102,117	102,206	102,027
Employment-population ratio <sup>2</sup> .....	63.7	63.7	63.8	63.7	63.8	63.7	63.8	63.8	63.8	63.8	63.8	63.8	63.7
Unemployed .....	4,808	4,720	4,791	4,838	4,801	4,814	4,756	4,843	4,864	4,811	4,962	4,856	5,106
Unemployment rate .....	4.5	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.5	4.6	4.5	4.8
<b>Men, 20 years and over</b>													
Civilian labor force .....	55,374	55,280	55,544	55,463	55,443	55,465	55,626	55,676	55,747	55,771	55,815	55,828	55,826
Percent of population .....	78.5	78.3	78.7	78.5	78.4	78.3	78.5	78.5	78.5	78.4	78.4	78.4	78.3
Employed .....	53,199	53,222	53,437	53,331	53,307	53,153	53,483	53,482	53,580	53,560	53,547	53,593	53,425
Employment-population ratio <sup>2</sup> .....	75.5	75.4	75.7	75.4	75.4	75.1	75.5	75.4	75.5	75.3	75.2	75.2	74.9
Unemployed .....	2,175	2,058	2,107	2,132	2,136	2,312	2,143	2,194	2,167	2,211	2,268	2,235	2,400
Unemployment rate .....	3.9	3.7	3.8	3.8	3.9	4.2	3.9	3.9	3.9	4.0	4.1	4.0	4.3
<b>Women, 20 years and over</b>													
Civilian labor force .....	43,984	44,057	44,076	44,230	44,184	44,198	44,207	44,360	44,469	44,475	44,615	44,523	44,740
Percent of population .....	57.1	57.2	57.2	57.3	57.2	57.2	57.1	57.3	57.4	57.4	57.5	57.4	57.6
Employed .....	42,199	42,268	42,279	42,377	42,391	42,520	42,437	42,586	42,641	42,718	42,782	42,765	42,895
Employment-population ratio <sup>2</sup> .....	54.8	54.8	54.8	54.9	54.9	55.0	54.9	55.0	55.0	55.1	55.2	55.1	55.2
Unemployed .....	1,785	1,789	1,797	1,853	1,793	1,678	1,770	1,774	1,828	1,757	1,833	1,758	1,844
Unemployment rate .....	4.1	4.1	4.1	4.2	4.1	3.8	4.0	4.0	4.1	4.0	4.1	3.9	4.1
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	6,850	6,815	6,854	6,691	6,858	6,730	6,785	6,798	6,680	6,639	6,650	6,710	6,568
Percent of population .....	59.1	58.9	59.3	58.0	59.6	58.7	59.4	59.7	58.9	58.7	59.0	59.8	58.8
Employed .....	6,002	5,942	5,967	5,838	5,986	5,906	5,942	5,923	5,811	5,796	5,788	5,847	5,707
Employment-population ratio <sup>2</sup> .....	51.7	51.3	51.6	50.6	52.0	51.5	52.0	52.0	51.2	51.3	51.4	52.1	51.1
Unemployed .....	848	873	887	853	872	824	843	875	869	843	862	863	861
Unemployment rate .....	12.4	12.8	12.9	12.7	12.7	12.2	12.4	12.9	13.0	12.7	13.0	12.9	13.1
Men .....	13.2	14.1	13.5	12.8	13.1	13.3	13.8	14.3	14.0	12.9	12.7	13.0	13.8
Women .....	11.5	11.4	12.3	12.6	12.3	11.1	10.9	11.3	11.9	12.4	13.2	12.7	12.4
<b>BLACK</b>													
Civilian noninstitutional population <sup>1</sup> .....	20,956	20,986	21,012	21,038	21,060	21,085	21,108	21,136	21,164	21,163	21,188	21,211	21,228
Civilian labor force .....	13,336	13,454	13,569	13,548	13,476	13,518	13,507	13,576	13,522	13,510	13,437	13,581	13,570
Percent of population .....	63.6	64.1	64.6	64.4	64.0	64.1	64.0	64.2	63.9	63.8	63.4	64.0	63.9
Employed .....	11,872	11,962	11,969	12,063	11,961	11,938	11,923	11,954	11,920	11,978	12,030	12,148	12,161
Employment-population ratio <sup>2</sup> .....	56.7	57.0	57.0	57.3	56.8	56.6	56.5	56.6	56.3	56.6	56.8	57.3	57.3
Unemployed .....	1,464	1,492	1,600	1,485	1,515	1,580	1,584	1,622	1,602	1,532	1,407	1,433	1,409
Unemployment rate .....	11.0	11.1	11.8	11.0	11.2	11.7	11.7	11.9	11.8	11.3	10.5	10.6	10.4
<b>Men, 20 years and over</b>													
Civilian labor force .....	6,188	6,209	6,206	6,209	6,198	6,239	6,234	6,247	6,244	6,189	6,172	6,227	6,240
Percent of population .....	74.2	74.3	74.2	74.1	73.9	74.6	74.2	74.2	74.0	73.5	73.3	73.6	73.7
Employed .....	5,576	5,617	5,613	5,621	5,584	5,610	5,593	5,587	5,569	5,496	5,603	5,631	5,651
Employment-population ratio <sup>2</sup> .....	66.9	67.3	67.1	67.1	66.6	67.0	66.6	66.4	66.0	65.2	66.6	66.5	66.8
Unemployed .....	612	592	593	588	614	629	641	660	675	693	569	596	589
Unemployment rate .....	9.9	9.5	9.6	9.5	9.9	10.1	10.3	10.6	10.8	11.2	9.2	9.6	9.4
<b>Women, 20 years and over</b>													
Civilian labor force .....	6,254	6,341	6,401	6,386	6,362	6,360	6,336	6,373	6,311	6,393	6,423	6,456	6,451
Percent of population .....	59.9	60.6	61.1	60.9	60.6	60.5	60.2	60.4	59.7	60.5	60.7	60.9	60.8
Employed .....	5,685	5,734	5,732	5,755	5,753	5,743	5,706	5,722	5,681	5,802	5,821	5,872	5,858
Employment-population ratio <sup>2</sup> .....	54.4	54.8	54.7	54.9	54.8	54.6	54.2	54.2	53.8	54.9	55.0	55.4	55.2
Unemployed .....	569	607	669	631	609	617	630	651	630	591	602	584	594
Unemployment rate .....	9.1	9.6	10.5	9.9	9.6	9.7	9.9	10.2	10.0	9.2	9.4	9.0	9.2

See footnotes at end of table.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-34. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted—Continued**

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>BLACK—Continued</b>													
<b>Both sexes, 16 to 19 years</b>													
Civilian labor force .....	894	904	962	953	916	919	937	956	967	928	842	898	879
Percent of population .....	41.1	41.6	44.2	43.8	42.2	41.8	43.0	44.0	44.6	42.8	38.5	41.7	40.8
Employed .....	611	611	624	687	624	585	624	645	670	680	606	645	652
Employment-population ratio <sup>2</sup> .....	28.1	28.1	28.7	31.6	28.7	26.6	28.6	29.7	30.9	31.3	27.7	30.0	30.3
Unemployed .....	283	293	338	266	292	334	313	311	297	248	236	253	227
Unemployment rate .....	31.7	32.4	35.1	27.9	31.9	36.3	33.4	32.5	30.7	26.7	28.0	28.2	25.8
Men .....	34.8	35.4	33.8	23.2	30.3	33.8	32.0	32.3	30.1	29.2	28.5	30.0	27.2
Women .....	28.5	29.6	36.8	33.1	33.6	38.8	34.9	32.7	31.4	24.0	27.5	26.2	24.3
<b>HISPANIC ORIGIN</b>													
Civilian noninstitutional population <sup>1</sup> .....	13,690	13,731	13,772	13,813	13,853	13,894	13,936	13,977	14,019	14,080	14,119	14,159	14,198
Civilian labor force .....	9,288	9,359	9,289	9,403	9,361	9,342	9,339	9,424	9,495	9,440	9,400	9,565	9,618
Percent of population .....	67.8	68.2	67.4	68.1	67.6	67.2	67.0	67.4	67.7	67.0	66.6	67.6	67.7
Employed .....	8,531	8,619	8,543	8,579	8,541	8,564	8,595	8,672	8,691	8,769	8,666	8,831	8,850
Employment-population ratio <sup>2</sup> .....	62.3	62.8	62.0	62.1	61.7	61.6	61.7	62.0	62.0	62.3	61.4	62.4	62.3
Unemployed .....	757	740	746	824	820	778	744	752	804	671	734	734	768
Unemployment rate .....	8.2	7.9	8.0	8.8	8.8	8.3	8.0	8.0	8.5	7.1	7.8	7.7	8.0

<sup>1</sup> The population figures are not adjusted for seasonal variation.

<sup>2</sup> Civilian employment as a percent of the civilian noninstitutional population.

NOTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

**A-35. Employed civilians by selected social and economic categories, seasonally adjusted**

(In thousands)

Category	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>CHARACTERISTIC</b>													
Total .....	117,084	117,132	117,542	117,436	117,550	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116
Married men, spouse present .....	40,857	40,932	41,025	41,067	40,723	40,649	40,839	40,886	41,041	40,982	41,347	40,989	40,730
Married women, spouse present .....	29,563	29,608	29,499	29,520	29,259	29,506	29,544	29,767	29,695	29,897	29,704	29,618	29,742
Women who maintain families .....	6,263	6,354	6,401	6,446	6,371	6,429	6,354	6,351	6,349	6,215	6,378	6,291	6,325
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,630	1,647	1,557	1,685	1,723	1,680	1,678	1,687	1,677	1,634	1,578	1,620	1,621
Self-employed workers .....	1,414	1,377	1,411	1,424	1,410	1,424	1,406	1,373	1,369	1,354	1,375	1,457	1,429
Unpaid family workers .....	126	127	126	127	133	132	124	122	125	107	118	115	112
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	104,981	105,232	105,430	105,353	105,317	105,476	105,504	105,960	105,643	105,747	106,117	106,029	105,938
Government .....	17,266	17,305	17,328	17,501	17,559	17,613	17,595	17,681	17,728	17,626	17,607	17,724	17,816
Private industries .....	87,715	87,927	88,102	87,852	87,758	87,863	87,909	88,279	87,915	88,121	88,510	88,306	88,122
Private households .....	1,118	1,123	1,128	1,094	1,147	1,065	987	1,051	1,077	1,035	1,021	1,003	957
Other industries .....	86,597	86,804	86,974	86,758	86,611	86,798	86,922	87,228	86,838	87,086	87,489	87,302	87,165
Self-employed workers .....	8,643	8,573	8,578	8,602	8,621	8,581	8,610	8,528	8,653	8,733	8,628	8,852	8,716
Unpaid family workers .....	277	299	245	248	272	279	280	264	251	256	313	261	258
<b>PERSONS AT WORK PART TIME<sup>1</sup></b>													
<b>All industries:</b>													
Part time for economic reasons .....	5,086	4,883	4,928	4,773	4,802	4,864	4,767	4,803	4,802	4,983	4,887	5,004	4,871
Slack work .....	2,346	2,314	2,315	2,301	2,281	2,321	2,314	2,297	2,277	2,402	2,307	2,476	2,407
Could only find part-time work .....	2,375	2,307	2,269	2,172	2,142	2,161	2,082	2,162	2,106	2,255	2,211	2,127	2,138
Voluntary part time .....	15,405	15,350	15,466	15,577	15,550	15,506	15,368	15,254	15,388	14,931	15,381	15,464	15,193
<b>Nonagricultural industries:</b>													
Part time for economic reasons .....	4,855	4,643	4,738	4,583	4,567	4,605	4,526	4,552	4,554	4,729	4,703	4,747	4,630
Slack work .....	2,198	2,137	2,183	2,164	2,129	2,165	2,166	2,132	2,111	2,240	2,183	2,293	2,218
Could only find part-time work .....	2,310	2,246	2,198	2,104	2,076	2,095	2,021	2,097	2,051	2,172	2,173	2,050	2,096
Voluntary part time .....	14,975	14,977	15,016	15,138	15,071	15,076	14,936	14,805	14,983	14,515	14,924	14,975	14,804

<sup>1</sup> Excludes persons "with a job but not at work" during the survey

period for such reasons as vacation, illness, or industrial dispute.



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-36. Employed civilians by sex and age, seasonally adjusted**

(In thousands)

Sex and age	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Total, 16 years and over .....	117,084	117,132	117,542	117,436	117,550	117,419	117,585	117,836	117,888	117,863	118,035	118,334	118,116
16 to 24 years .....	19,892	19,748	19,889	19,781	19,813	19,489	19,487	19,482	19,298	19,309	19,247	19,459	19,196
16 to 19 years .....	6,808	6,709	6,783	6,704	6,814	6,706	6,763	6,760	6,686	6,631	6,577	6,720	6,551
16 to 17 years .....	2,629	2,597	2,557	2,465	2,574	2,571	2,645	2,598	2,518	2,501	2,513	2,557	2,460
18 to 19 years .....	4,177	4,115	4,199	4,233	4,236	4,149	4,130	4,152	4,161	4,132	4,072	4,164	4,086
20 to 24 years .....	13,084	13,039	13,106	13,077	12,999	12,783	12,724	12,722	12,612	12,678	12,670	12,739	12,646
25 years and over .....	97,150	97,353	97,643	97,726	97,809	97,946	98,122	98,345	98,594	98,547	98,722	98,803	98,836
25 to 54 years .....	82,229	82,458	82,704	82,821	83,064	83,170	83,316	83,594	83,680	83,690	83,856	83,938	83,969
55 years and over .....	14,918	14,938	14,878	14,914	14,780	14,825	14,818	14,784	14,849	14,805	14,867	14,870	14,856
Men, 16 years and over .....	64,206	64,202	64,577	64,440	64,400	64,150	64,513	64,482	64,618	64,420	64,602	64,711	64,544
16 to 24 years .....	10,364	10,249	10,372	10,291	10,275	10,070	10,211	10,123	10,128	10,091	10,071	10,110	10,018
16 to 19 years .....	3,490	3,428	3,505	3,525	3,539	3,421	3,487	3,449	3,464	3,444	3,430	3,441	3,407
16 to 17 years .....	1,336	1,315	1,305	1,288	1,372	1,280	1,357	1,329	1,308	1,298	1,315	1,317	1,270
18 to 19 years .....	2,149	2,090	2,187	2,245	2,159	2,138	2,134	2,140	2,153	2,149	2,121	2,126	2,130
20 to 24 years .....	6,874	6,821	6,867	6,766	6,736	6,649	6,724	6,674	6,664	6,647	6,640	6,669	6,611
25 years and over .....	53,827	53,933	54,197	54,182	54,171	54,095	54,302	54,362	54,494	54,335	54,463	54,558	54,475
25 to 54 years .....	45,196	45,388	45,568	45,603	45,708	45,696	45,829	45,938	46,048	45,832	46,013	46,081	46,041
55 years and over .....	8,610	8,539	8,576	8,583	8,462	8,439	8,488	8,432	8,441	8,509	8,485	8,480	8,432
Women, 16 years and over .....	52,878	52,930	52,965	52,996	53,150	53,269	53,072	53,354	53,270	53,443	53,433	53,623	53,571
16 to 24 years .....	9,528	9,499	9,517	9,490	9,538	9,419	9,276	9,359	9,170	9,218	9,176	9,349	9,178
16 to 19 years .....	3,318	3,281	3,278	3,179	3,275	3,285	3,276	3,311	3,222	3,187	3,146	3,279	3,144
16 to 17 years .....	1,293	1,282	1,252	1,177	1,202	1,291	1,288	1,269	1,210	1,203	1,198	1,240	1,190
18 to 19 years .....	2,028	2,025	2,012	1,988	2,077	2,011	1,996	2,012	2,008	1,983	1,951	2,038	1,956
20 to 24 years .....	6,210	6,218	6,239	6,311	6,263	6,134	6,000	6,048	5,948	6,030	6,029	6,070	6,034
25 years and over .....	43,323	43,420	43,446	43,544	43,638	43,851	43,820	43,983	44,100	44,212	44,259	44,245	44,361
25 to 54 years .....	37,033	37,070	37,136	37,218	37,356	37,474	37,487	37,656	37,632	37,859	37,844	37,857	37,928
55 years and over .....	6,308	6,399	6,302	6,331	6,318	6,386	6,330	6,352	6,408	6,296	6,382	6,390	6,424

**A-37. Unemployed persons by sex and age, seasonally adjusted**

(In thousands)

Sex and age	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Total, 16 years and over .....	6,531	6,419	6,569	6,577	6,520	6,604	6,563	6,652	6,658	6,535	6,594	6,495	6,770
16 to 24 years .....	2,367	2,312	2,485	2,419	2,437	2,426	2,428	2,472	2,428	2,299	2,294	2,274	2,425
16 to 19 years .....	1,160	1,187	1,235	1,188	1,187	1,188	1,186	1,220	1,203	1,121	1,138	1,126	1,130
16 to 17 years .....	496	516	540	530	545	534	536	548	558	434	509	520	519
18 to 19 years .....	661	684	719	638	623	684	645	665	645	683	609	615	609
20 to 24 years .....	1,207	1,125	1,250	1,231	1,250	1,238	1,242	1,252	1,225	1,178	1,156	1,148	1,295
25 years and over .....	4,159	4,060	4,054	4,106	4,069	4,197	4,144	4,188	4,242	4,279	4,304	4,237	4,347
25 to 54 years .....	3,731	3,637	3,546	3,629	3,568	3,701	3,652	3,688	3,744	3,780	3,781	3,727	3,864
55 years and over .....	454	453	507	480	473	465	464	496	494	525	526	515	505
Men, 16 years and over .....	3,566	3,429	3,464	3,427	3,485	3,679	3,553	3,624	3,582	3,597	3,530	3,505	3,735
16 to 24 years .....	1,260	1,260	1,332	1,263	1,330	1,361	1,349	1,380	1,361	1,267	1,226	1,236	1,343
16 to 19 years .....	644	668	662	606	629	637	661	690	665	614	601	592	622
16 to 17 years .....	284	302	316	279	295	311	308	312	319	214	259	267	281
18 to 19 years .....	360	371	347	309	325	340	353	382	346	397	336	336	341
20 to 24 years .....	616	592	670	657	701	724	688	690	696	653	625	644	721
25 years and over .....	2,298	2,118	2,102	2,132	2,143	2,313	2,214	2,258	2,238	2,373	2,313	2,291	2,387
25 to 54 years .....	2,038	1,863	1,815	1,858	1,821	1,978	1,919	1,967	1,917	2,079	2,018	1,997	2,099
55 years and over .....	282	265	275	278	293	310	280	303	314	313	308	300	310
Women, 16 years and over .....	2,965	2,990	3,105	3,150	3,035	2,925	3,010	3,028	3,076	2,938	3,064	2,990	3,034
16 to 24 years .....	1,107	1,052	1,153	1,156	1,107	1,065	1,079	1,092	1,067	1,032	1,069	1,038	1,082
16 to 19 years .....	516	519	573	582	558	551	525	530	538	507	537	534	508
16 to 17 years .....	212	214	224	251	250	223	228	236	239	220	250	253	238
18 to 19 years .....	301	313	372	329	298	344	292	283	299	286	273	279	268
20 to 24 years .....	591	533	580	574	549	514	554	562	529	525	532	504	574
25 years and over .....	1,861	1,942	1,952	1,974	1,926	1,884	1,930	1,930	2,004	1,906	1,991	1,945	1,961
25 to 54 years .....	1,693	1,774	1,731	1,771	1,747	1,723	1,733	1,721	1,827	1,701	1,763	1,730	1,765
55 years and over .....	172	188	232	202	180	155	184	193	180	212	218	216	195

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-38. Unemployment rates by sex and age, seasonally adjusted**

(Civilian workers)

Sex and age	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Total, 16 years and over .....	5.3	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.4
16 to 24 years .....	10.6	10.5	11.1	10.9	11.0	11.1	11.1	11.3	11.2	10.6	10.7	10.5	11.2
16 to 19 years .....	14.6	15.0	15.4	15.1	14.8	15.0	14.9	15.3	15.2	14.5	14.8	14.4	14.7
16 to 17 years .....	15.9	16.6	17.4	17.7	17.5	17.2	16.9	17.4	18.1	14.8	16.8	16.9	17.4
18 to 19 years .....	13.7	14.3	14.6	13.1	12.8	14.2	13.5	13.8	13.4	14.2	13.0	12.9	13.0
20 to 24 years .....	8.4	7.9	8.7	8.6	8.8	8.8	8.9	9.0	8.9	8.5	8.4	8.3	9.3
25 years and over .....	4.1	4.0	4.0	4.0	4.0	4.1	4.1	4.1	4.1	4.2	4.2	4.1	4.2
25 to 54 years .....	4.3	4.2	4.1	4.2	4.1	4.3	4.2	4.2	4.3	4.3	4.3	4.3	4.4
55 years and over .....	3.0	2.9	3.3	3.1	3.1	3.0	3.0	3.2	3.2	3.4	3.4	3.3	3.3
Men, 16 years and over .....	5.3	5.1	5.1	5.0	5.1	5.4	5.2	5.3	5.3	5.3	5.2	5.1	5.5
16 to 24 years .....	10.8	10.9	11.4	10.9	11.5	11.9	11.7	12.0	11.8	11.2	10.9	10.9	11.8
16 to 19 years .....	15.6	16.3	15.9	14.7	15.1	15.7	15.9	16.7	16.1	15.1	14.9	14.7	15.4
16 to 17 years .....	17.5	18.7	19.5	17.8	17.7	19.5	18.5	19.0	19.6	14.2	16.5	16.9	18.1
18 to 19 years .....	14.3	15.1	13.7	12.1	13.1	13.7	14.2	15.1	13.8	15.6	13.7	13.6	13.8
20 to 24 years .....	8.2	8.0	8.9	8.9	9.4	9.8	9.3	9.4	9.5	8.9	8.6	8.8	9.8
25 years and over .....	4.1	3.8	3.7	3.8	3.8	4.1	3.9	4.0	3.9	4.2	4.1	4.0	4.2
25 to 54 years .....	4.3	3.9	3.8	3.9	3.8	4.1	4.0	4.1	4.0	4.3	4.2	4.2	4.4
55 years and over .....	3.2	3.0	3.1	3.1	3.3	3.5	3.2	3.5	3.6	3.6	3.5	3.4	3.5
Women, 16 years and over .....	5.3	5.3	5.5	5.6	5.4	5.2	5.4	5.4	5.5	5.2	5.4	5.3	5.4
16 to 24 years .....	10.4	10.0	10.8	10.9	10.4	10.2	10.4	10.4	10.4	10.1	10.4	10.0	10.5
16 to 19 years .....	13.5	13.7	14.9	15.5	14.6	14.4	13.8	13.8	14.3	13.7	14.6	14.0	13.9
16 to 17 years .....	14.1	14.3	15.2	17.6	17.2	14.7	15.0	15.7	16.5	15.5	17.3	16.9	16.7
18 to 19 years .....	12.9	13.4	15.6	14.2	12.5	14.6	12.8	12.3	13.0	12.6	12.3	12.0	12.1
20 to 24 years .....	8.7	7.9	8.5	8.3	8.1	7.7	8.5	8.5	8.2	8.0	8.1	7.7	8.7
25 years and over .....	4.1	4.3	4.3	4.3	4.2	4.1	4.2	4.2	4.3	4.1	4.3	4.2	4.2
25 to 54 years .....	4.4	4.6	4.5	4.5	4.5	4.4	4.4	4.4	4.6	4.3	4.5	4.4	4.4
55 years and over .....	2.7	2.9	3.6	3.1	2.8	2.4	2.8	2.9	2.7	3.3	3.3	3.3	2.9

**A-39. Selected unemployment indicators, seasonally adjusted**

(Unemployment rates)

Category	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	5.3	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.2	5.4
Men, 20 years and over .....	4.6	4.3	4.4	4.4	4.5	4.8	4.5	4.6	4.6	4.6	4.7	4.6	4.8
Women, 20 years and over .....	4.7	4.7	4.8	4.9	4.7	4.5	4.8	4.8	4.8	4.6	4.8	4.7	4.8
Both sexes, 16 to 19 years .....	14.6	15.0	15.4	15.1	14.8	15.0	14.9	15.3	15.2	14.5	14.8	14.4	14.7
White .....	4.5	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.6	4.5	4.6	4.5	4.8
Black and other .....	9.7	9.6	10.2	9.6	9.7	10.2	10.2	10.3	10.2	10.1	9.2	9.4	9.1
Black .....	11.0	11.1	11.8	11.0	11.2	11.7	11.7	11.9	11.8	11.3	10.5	10.6	10.4
Hispanic origin .....	8.2	7.9	8.0	8.8	8.8	8.3	8.0	8.0	8.5	7.1	7.8	7.7	8.0
Married men, spouse present .....	3.2	2.9	2.9	3.0	3.1	3.3	3.0	3.1	3.0	3.4	3.0	3.2	3.3
Married women, spouse present .....	4.0	3.8	3.8	3.8	3.9	3.8	3.9	3.8	3.9	3.7	3.8	3.6	3.5
Women who maintain families .....	7.8	8.2	7.9	8.5	8.0	7.7	7.8	8.2	8.1	7.5	7.5	8.4	7.5
Full-time workers .....	5.0	4.9	4.9	5.0	4.9	5.0	4.9	5.0	5.0	5.0	4.9	4.9	5.1
Part-time workers .....	7.2	6.9	7.7	7.2	7.1	7.3	7.1	7.4	7.5	7.0	7.4	7.2	7.1
Unemployed 15 weeks and over <sup>1</sup> .....	1.1	1.1	1.0	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Labor force time lost <sup>2</sup> .....	6.0	6.0	6.0	6.0	6.0	6.0	5.9	5.9	6.0	6.0	5.9	5.9	6.2
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers .....	5.3	5.2	5.3	5.4	5.4	5.4	5.3	5.4	5.4	5.5	5.5	5.5	5.7
Goods-producing industries .....	6.0	5.9	6.2	6.2	6.3	6.3	6.2	6.3	6.5	6.7	6.6	6.6	6.9
Mining .....	5.8	4.6	3.9	5.8	6.4	8.4	4.8	6.2	4.4	6.8	4.8	5.9	4.6
Construction .....	9.8	9.5	10.0	10.3	10.2	10.1	9.3	9.8	9.8	9.3	8.9	10.0	10.6
Manufacturing .....	5.0	4.9	5.1	5.1	5.2	5.2	5.4	5.4	5.6	5.9	5.9	5.5	5.9
Durable goods .....	4.7	4.6	4.6	4.7	4.9	4.9	5.2	5.4	5.4	5.8	5.5	5.3	5.7
Nondurable goods .....	5.3	5.5	5.8	5.6	5.7	5.5	5.6	5.3	5.9	5.9	6.4	5.9	6.3
Service-producing industries .....	5.0	4.9	4.9	5.0	4.9	5.0	4.9	5.0	4.9	5.0	5.0	5.0	5.1
Transportation and public utilities .....	3.9	4.0	4.1	4.1	3.7	4.5	3.9	3.6	3.4	4.3	4.0	3.4	4.3
Wholesale and retail trade .....	5.9	5.6	6.0	6.1	6.0	5.9	5.9	6.4	6.3	6.2	6.0	6.2	6.2
Finance and service industries .....	4.6	4.6	4.3	4.4	4.4	4.5	4.3	4.3	4.2	4.3	4.4	4.5	4.5
Government workers .....	2.7	2.9	2.9	2.8	2.7	2.8	2.7	2.7	2.6	2.4	2.5	2.3	2.1
Agricultural wage and salary workers .....	9.8	9.9	10.4	8.9	9.0	7.8	9.8	12.1	9.7	9.2	9.3	10.1	11.0

<sup>1</sup> Unemployment as a percent of the civilian labor force.

<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.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-40. Unemployed persons by duration of unemployment, seasonally adjusted**

(Numbers in thousands)

Weeks of unemployment	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>DURATION</b>													
Less than 5 weeks .....	3,113	3,070	3,279	3,156	3,125	3,169	3,166	3,258	3,302	3,119	3,159	3,194	3,204
5 to 14 weeks .....	2,006	1,993	2,006	1,965	2,002	2,030	1,995	1,991	2,013	2,012	2,079	2,044	2,175
15 weeks and over .....	1,391	1,331	1,295	1,461	1,338	1,359	1,378	1,422	1,362	1,430	1,369	1,333	1,386
15 to 26 weeks .....	667	711	684	838	759	769	743	765	730	777	731	702	697
27 weeks and over .....	724	620	611	623	579	590	635	657	632	653	638	631	688
Average (mean) duration, in weeks .....	12.6	11.9	11.2	11.9	11.4	11.5	11.7	11.6	11.5	12.1	11.7	12.0	12.1
Median duration, in weeks .....	5.4	5.3	5.4	5.4	5.0	5.0	5.0	4.8	4.8	5.1	5.4	5.1	5.0
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	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 5 weeks .....	47.8	48.0	49.8	47.9	48.3	48.3	48.4	48.8	49.5	47.5	47.8	48.6	47.4
5 to 14 weeks .....	30.8	31.2	30.5	29.9	31.0	31.0	30.5	29.8	30.1	30.7	31.5	31.1	32.2
15 weeks and over .....	21.4	20.8	19.7	22.2	20.7	20.7	21.1	21.3	20.4	21.8	20.7	20.3	20.5
15 to 26 weeks .....	10.2	11.1	10.4	12.7	11.7	11.7	11.4	11.5	10.9	11.8	11.1	10.7	10.3
27 weeks and over .....	11.1	9.7	9.3	9.5	9.0	9.0	9.7	9.8	9.5	9.9	9.7	9.6	10.2

**A-41. Unemployed persons by reason for unemployment, seasonally adjusted**

(Numbers in thousands)

Reasons for unemployment	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	2,932	2,798	2,820	2,916	2,964	2,932	2,979	3,092	3,097	3,183	3,103	3,038	3,147
On layoff .....	833	805	813	829	865	852	780	969	957	1,033	964	941	999
Other job losers .....	2,099	1,993	2,007	2,087	2,099	2,080	2,199	2,123	2,140	2,150	2,139	2,097	2,148
Job leavers .....	985	1,103	1,021	1,016	1,031	1,034	994	1,049	1,055	1,016	1,006	1,014	1,179
Reentrants .....	1,882	1,853	1,993	1,901	1,772	1,920	1,890	1,845	1,853	1,730	1,805	1,859	1,780
New entrants .....	692	696	726	723	643	648	685	695	686	640	680	644	617
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	45.2	43.4	43.0	44.5	46.2	44.9	45.5	46.3	46.3	48.5	47.1	46.3	46.8
On layoff .....	12.8	12.5	12.4	12.6	13.5	13.0	11.9	14.5	14.3	15.7	14.6	14.4	14.9
Other job losers .....	32.3	30.9	30.6	31.8	32.7	31.8	33.6	31.8	32.0	32.7	32.4	32.0	31.9
Job leavers .....	15.2	17.1	15.6	15.5	16.1	15.8	15.2	15.7	15.8	15.5	15.3	15.5	17.5
Reentrants .....	29.0	28.7	30.4	29.0	27.6	29.4	28.9	27.6	27.7	26.3	27.4	28.4	26.5
New entrants .....	10.7	10.8	11.1	11.0	10.0	9.9	10.5	10.4	10.3	9.7	10.3	9.8	9.2
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.4	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.5	2.4	2.5
Job leavers .....	.8	.9	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.9
Reentrants .....	1.5	1.5	1.6	1.5	1.4	1.5	1.5	1.5	1.5	1.4	1.4	1.5	1.4
New entrants .....	.6	.6	.6	.6	.5	.5	.6	.6	.6	.5	.5	.5	.5

**ESTABLISHMENT DATA  
HISTORICAL EMPLOYMENT**

**B-1. Employees on nonagricultural payrolls by major industry, 1938 to date**

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing						Government		
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Federal	State	Local
Annual averages															
1938	29,194	25,311	11,401	891	1,070	9,440	17,793	2,863	( <sup>1</sup> )	( <sup>1</sup> )	1,410	3,458	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
1939	30,603	26,608	12,297	854	1,165	10,278	18,306	2,936	1,762	4,664	1,447	3,502	905	( <sup>1</sup> )	( <sup>1</sup> )
1940	32,361	28,159	13,221	925	1,311	10,985	19,140	3,038	1,835	4,914	1,485	3,665	996	( <sup>1</sup> )	( <sup>1</sup> )
1941	36,539	31,877	15,963	957	1,814	13,192	20,574	3,274	1,960	5,251	1,525	3,905	1,340	( <sup>1</sup> )	( <sup>1</sup> )
1942	40,106	34,624	18,470	992	2,198	15,280	21,636	3,460	1,906	5,212	1,509	4,066	2,213	( <sup>1</sup> )	( <sup>1</sup> )
1943	42,434	36,356	20,114	925	1,587	17,602	22,320	3,647	1,822	5,160	1,481	4,130	2,905	( <sup>1</sup> )	( <sup>1</sup> )
1944	41,864	35,822	19,328	892	1,108	17,328	22,536	3,829	1,845	5,214	1,461	4,145	2,928	( <sup>1</sup> )	( <sup>1</sup> )
1945	40,374	34,431	17,507	836	1,147	15,524	22,867	3,906	1,949	5,365	1,481	4,222	2,808	( <sup>1</sup> )	( <sup>1</sup> )
1946	41,652	36,056	17,248	862	1,683	14,703	24,404	4,061	2,291	6,084	1,675	4,697	2,254	( <sup>1</sup> )	( <sup>1</sup> )
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,471	6,485	1,728	5,025	1,892	( <sup>1</sup> )	( <sup>1</sup> )
1948	44,866	39,216	18,774	994	2,198	15,582	26,092	4,189	2,605	6,667	1,800	5,181	1,863	( <sup>1</sup> )	( <sup>1</sup> )
1949	43,754	37,897	17,565	930	2,194	14,441	26,189	4,001	2,602	6,662	1,828	5,240	1,908	( <sup>1</sup> )	( <sup>1</sup> )
1950	45,197	39,170	18,506	901	2,364	15,241	26,691	4,034	2,635	6,751	1,888	5,357	1,928	( <sup>1</sup> )	( <sup>1</sup> )
1951	47,819	41,430	19,959	929	2,637	16,393	27,860	4,226	2,727	7,015	1,956	5,547	2,302	( <sup>1</sup> )	( <sup>1</sup> )
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,812	7,192	2,035	5,899	2,420	( <sup>1</sup> )	( <sup>1</sup> )
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,854	7,393	2,111	5,835	2,305	( <sup>1</sup> )	( <sup>1</sup> )
1954	48,990	42,238	19,751	791	2,646	16,314	29,239	4,084	2,867	7,368	2,200	5,969	2,188	( <sup>1</sup> )	( <sup>1</sup> )
1955	50,641	43,727	20,513	792	2,839	16,882	30,128	4,141	2,926	7,610	2,298	6,240	2,187	1,168	3,558
1956	52,369	45,091	21,104	822	3,039	17,243	31,266	4,244	3,018	7,840	2,389	6,497	2,209	1,250	3,819
1957	52,853	45,239	20,964	828	2,962	17,174	31,889	4,241	3,028	7,858	2,438	6,708	2,217	1,328	4,071
1958	51,324	43,483	19,513	751	2,817	15,945	31,811	3,976	2,980	7,770	2,481	6,765	2,191	1,415	4,232
1959 <sup>2</sup>	53,268	45,186	20,411	732	3,004	16,675	32,857	4,011	3,082	8,045	2,549	7,087	2,233	1,484	4,366
1960	54,189	45,836	20,434	712	2,926	16,796	33,755	4,004	3,143	8,248	2,629	7,378	2,270	1,536	4,547
1961	53,999	45,404	19,857	672	2,859	16,326	34,142	3,903	3,133	8,204	2,688	7,620	2,279	1,607	4,708
1962	55,549	46,660	20,451	650	2,948	16,853	35,098	3,906	3,198	8,368	2,754	7,982	2,340	1,668	4,881
1963	56,653	47,429	20,640	635	3,010	16,995	36,013	3,903	3,248	8,530	2,830	8,277	2,358	1,747	5,121
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,337	8,823	2,911	8,660	2,348	1,856	5,392
1965	60,765	50,689	21,926	632	3,232	18,062	38,839	4,036	3,466	9,250	2,977	9,036	2,378	1,996	5,700
1966	63,901	53,116	23,158	627	3,317	19,214	40,743	4,158	3,597	9,648	3,058	9,498	2,564	2,141	6,080
1967	65,803	54,413	23,308	613	3,248	19,447	42,495	4,268	3,689	9,917	3,185	10,045	2,719	2,302	6,371
1968	67,897	56,058	23,737	606	3,350	19,781	44,160	4,318	3,779	10,320	3,337	10,567	2,737	2,442	6,660
1969	70,384	58,189	24,361	619	3,575	20,167	46,023	4,442	3,907	10,798	3,512	11,169	2,758	2,533	6,904
1970	70,880	58,325	23,578	623	3,588	19,367	47,302	4,515	3,993	11,047	3,645	11,548	2,731	2,664	7,158
1971	71,214	58,331	22,935	609	3,704	16,623	48,278	4,476	4,001	11,351	3,772	11,797	2,696	2,747	7,437
1972	73,675	60,341	23,668	628	3,889	19,151	50,007	4,541	4,113	11,836	3,908	12,276	2,684	2,859	7,790
1973	76,790	63,058	24,893	642	4,097	20,154	51,897	4,656	4,277	12,329	4,046	12,857	2,663	2,923	8,146
1974	78,265	64,095	24,794	697	4,020	20,077	53,471	4,725	4,433	12,554	4,148	13,441	2,724	3,039	8,407
1975	76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,415	12,645	4,165	13,892	2,748	3,179	8,758
1976	79,382	64,511	23,352	779	3,576	18,997	56,030	4,582	4,546	13,209	4,271	14,551	2,733	3,273	8,865
1977	82,471	67,344	24,346	813	3,851	19,682	58,125	4,713	4,708	13,808	4,467	15,303	2,727	3,377	9,023
1978	86,697	71,026	25,585	851	4,229	20,505	61,113	4,923	4,969	14,573	4,724	16,252	2,753	3,474	9,446
1979	89,823	73,876	26,461	958	4,463	21,040	63,363	5,136	5,204	14,989	4,975	17,112	2,773	3,541	9,633
1980	90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,275	15,035	5,160	17,890	2,866	3,610	9,765
1981	91,156	75,126	25,497	1,139	4,188	20,170	65,659	5,165	5,358	15,189	5,298	18,619	2,772	3,640	9,619
1982	89,566	73,729	23,813	1,128	3,905	18,781	65,753	5,082	5,278	15,179	5,341	18,036	2,739	3,640	9,458
1983	90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,268	15,613	5,468	19,694	2,774	3,662	9,434
1984	94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,555	16,545	5,689	20,797	2,807	3,734	9,482
1985	97,519	81,125	24,859	927	4,673	19,260	72,660	5,238	5,717	17,356	5,955	22,000	2,875	3,832	9,687
1986	99,525	82,832	24,558	777	4,816	18,965	74,967	5,255	5,753	17,930	6,283	23,053	2,899	3,893	9,901
1987	102,200	85,190	24,708	717	4,967	19,024	77,492	5,372	5,844	18,483	6,547	24,236	2,943	3,967	10,100
1988	105,584	88,212	25,249	721	5,125	19,403	80,335	5,548	6,029	19,110	6,676	25,600	2,971	4,063	10,339
1989	108,581	90,854	25,634	722	5,300	19,612	82,947	5,705	6,234	19,575	6,814	26,892	2,988	4,134	10,606
Monthly data, seasonally adjusted															
<b>1989:</b>															
April	108,101	90,475	25,671	720	5,279	19,672	82,430	5,682	6,206	19,489	6,776	26,651	2,982	4,111	10,533
May	108,310	90,623	25,672	722	5,283	19,667	82,636	5,700	6,222	19,528	6,790	26,711	2,999	4,119	10,569
June	108,607	90,884	25,648	715	5,283	19,650	82,959	5,716	6,230	19,551	6,808	26,931	2,995	4,136	10,592
July	108,767	91,016	25,669	706	5,314	19,649	83,098	5,736	6,237	19,586	6,815	26,973	3,000	4,145	10,606
August	108,887	91,083	25,694	729	5,321	19,644	83,193	5,618	6,256	19,621	6,836	27,058	2,999	4,154	10,651
September	109,096	91,230	25,614	730	5,325	19,559	83,482	5,709	6,264	19,632	6,852	27,159	2,996	4,182	10,688
October	109,171	91,328	25,603	731	5,335	19,537	83,568	5,729	6,278	19,679	6,851	27,188	2,984	4,153	10,706
November	109,452	91,622	25,609	737	5,355	19,517	83,843	5,753	6,300	19,744	6,871	27,345	2,982	4,162	10,686
December	109,570	91,699	25,532	739	5,304	19,489	84,038	5,834	6,311	19,718	6,885	27,419	2,974	4,156	10,741
<b>1990:</b>															
January	109,931	91,975	25,518	745	5,418	19,355	84,413	5,850	6,332	19,822	6,896	27,557	2,998	4,178	10,780
February	110,304	92,302	25,686	749	5,485	19,452	84,618	5,865	6,332	19,794	6,918	27,709	3,006	4,197	10,799
March <sup>p</sup>	110,407	92,297	25,604	749	5,433	19,422	84,803	5,864	6,343	19,778	6,926	27,782	3,088	4,203	10,819
April <sup>p</sup>	110,471	92,233	25,489	755	5,334	19,400	84,982	5,866	6,345	19,802	6,926	27,805	3,167	4,210	10,861

<sup>1</sup> Not available.

<sup>2</sup> Data include Alaska and Hawaii beginning in 1959. This inclusion resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1988) and all seasonally adjusted data (beginning January 1989) are subject to revision.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonagricultural payrolls by detailed industry**

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>p</sup>	Apr. 1990 <sup>p</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>p</sup>	Apr. 1990 <sup>p</sup>
<b>Total</b> .....		107,017	107,944	108,895	109,559	110,332	-	-	-	-	-
<b>Total private</b> .....		89,052	89,975	90,600	91,072	91,747	71,923	72,751	73,119	73,559	74,201
<b>Mining</b> .....		702	711	733	736	747	502	511	526	530	537
Metal mining .....	10	58.0	59.5	65.1	65.0	-	45.8	47.2	51.6	51.7	-
Iron ores .....	101	8.9	9.0	9.7	9.9	-	7.3	7.4	8.0	8.1	-
Copper ores .....	102	13.9	13.9	14.9	15.0	-	10.9	11.0	12.1	12.1	-
Coal mining .....	11,12	144.4	143.2	144.2	145.4	-	118.3	117.5	117.5	119.6	-
Bituminous coal and lignite mining .....	12	142.3	141.0	141.4	142.6	-	116.5	115.6	115.1	117.2	-
Oil and gas extraction .....	13	390.5	394.0	416.6	415.0	418.8	255.7	258.7	276.6	275.2	-
Crude petroleum, natural gas, and natural gas liquids .....	131,2	196.0	196.1	195.8	195.6	-	97.3	97.5	95.1	95.1	-
Oil and gas field services .....	138	194.5	197.9	220.8	219.4	-	158.4	161.2	181.5	180.1	-
Nonmetallic minerals, except fuels .....	14	108.9	114.7	107.4	110.3	-	82.1	87.7	80.0	83.0	-
Crushed and broken stone .....	142	39.2	41.5	37.6	38.7	-	30.5	32.8	28.5	29.6	-
Sand and gravel .....	144	32.2	35.2	31.9	33.5	-	-	-	-	-	-
Chemical and fertilizer minerals .....	147	17.7	17.7	17.9	17.8	-	-	-	-	-	-
<b>Construction</b> .....		4,837	5,121	4,942	5,004	5,179	3,695	3,960	3,766	3,821	3,984
General building contractors .....	15	1,287.3	1,331.7	1,319.4	1,320.5	1,340.7	912.7	955.4	936.2	935.8	-
Residential building construction .....	152	691.0	716.2	707.9	709.0	-	476.1	500.1	490.2	488.9	-
Operative builders .....	153	45.4	45.3	42.6	42.4	-	19.8	19.6	18.3	18.3	-
Nonresidential building construction .....	154	550.9	570.2	568.9	569.1	-	416.8	435.7	427.7	428.6	-
Heavy construction contractors .....	16	694.2	775.3	713.6	741.9	-	564.8	642.6	580.9	608.2	-
Highway and street construction .....	161	194.1	236.4	183.8	200.0	-	150.7	191.4	142.3	157.8	-
Heavy construction, except highway .....	162	500.1	538.9	529.8	541.9	-	414.1	451.2	438.6	450.4	-
Special trade contractors .....	17	2,855.5	3,013.8	2,909.0	2,941.3	-	2,217.1	2,361.9	2,248.6	2,277.3	-
Plumbing, heating, and air conditioning .....	171	651.0	661.3	653.2	652.6	-	478.3	486.7	476.7	476.1	-
Painting, paper hanging, and decorating .....	172	159.8	170.4	160.5	162.0	-	131.1	140.9	131.8	132.7	-
Electrical work .....	173	537.8	540.7	555.1	551.3	-	412.8	415.6	426.7	423.0	-
Masonry, stonework, and plastering .....	174	460.4	492.9	480.9	481.4	-	392.1	421.5	408.5	410.2	-
Carpentering and flooring .....	175	191.1	197.1	185.6	186.0	-	147.8	153.4	140.0	140.5	-
Roofing and sheet metal work .....	176	192.6	208.0	203.5	205.2	-	149.4	164.7	159.3	160.2	-
<b>Manufacturing</b> .....		19,556	19,580	19,325	19,314	19,318	13,348	13,362	13,113	13,106	13,133
<b>Durable goods</b> .....		11,550	11,573	11,343	11,340	11,337	7,710	7,727	7,521	7,527	7,542
Lumber and wood products .....	24	755.0	757.8	741.9	745.1	746.8	625.7	628.4	611.3	613.8	614.9
Logging camps and logging contractors .....	241	85.5	83.1	87.5	86.5	-	69.8	67.3	71.3	70.5	-
Sawmills and planing mills .....	242	205.8	206.6	204.7	205.0	-	179.9	180.6	178.5	178.7	-
Sawmills and planing mills, general .....	2421	166.8	167.7	166.7	166.9	-	145.6	146.4	145.4	145.4	-
Hardwood dimension and flooring .....	2426	35.4	35.2	34.7	34.6	-	31.2	31.1	30.5	30.4	-
Millwork, plywood, and structural members .....	243	266.4	268.9	258.6	260.3	-	217.7	220.1	209.3	211.0	-
Millwork .....	2431	106.6	107.4	101.6	102.8	-	85.9	86.7	80.4	81.7	-
Wood kitchen cabinets .....	2434	71.7	72.4	69.4	69.7	-	57.1	57.8	55.0	55.1	-
Hardwood veneer and plywood .....	2435	24.6	24.7	23.9	23.8	-	21.4	21.5	20.6	20.5	-
Softwood veneer and plywood .....	2436	35.1	35.1	36.2	36.2	-	31.5	31.5	32.6	32.6	-
Wood containers .....	244	43.0	43.8	41.2	42.1	-	36.4	37.1	34.6	35.5	-
Wood buildings and mobile homes .....	245	68.1	69.5	65.2	65.7	-	51.1	52.7	49.1	49.1	-
Mobile homes .....	2451	47.2	48.6	46.7	47.1	-	38.2	39.5	37.5	37.7	-
Miscellaneous wood products .....	249	86.2	85.9	84.7	85.5	-	70.8	70.6	68.5	69.0	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonagricultural payrolls by detailed industry—Continued**

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
Furniture and fixtures .....	25	534.8	536.0	522.9	522.8	522.7	427.9	427.0	415.3	414.6	415.3
Household furniture .....	251	314.4	313.1	303.6	303.1	-	266.3	264.9	254.7	254.3	-
Wood household furniture .....	2511	138.8	138.6	133.8	133.0	-	121.3	121.2	115.8	115.1	-
Upholstered household furniture .....	2512	102.4	102.1	101.5	102.0	-	85.9	85.6	84.4	85.0	-
Metal household furniture .....	2514	29.4	28.5	25.5	25.5	-	24.4	23.3	20.7	20.6	-
Mattresses and bedspings .....	2515	30.3	30.5	29.5	29.8	-	23.2	23.4	22.5	22.8	-
Office furniture .....	252	69.8	71.3	68.2	67.8	-	52.6	52.2	51.1	50.5	-
Public building and related furniture .....	253	34.7	34.8	32.9	33.0	-	27.4	27.4	25.5	25.6	-
Partitions and fixtures .....	254	78.3	79.1	80.2	80.8	-	56.5	57.1	57.7	58.1	-
Miscellaneous furniture and fixtures .....	259	37.6	37.7	38.0	38.1	-	25.1	25.4	26.3	26.1	-
Stone, clay, and glass products .....	32	592.2	603.3	578.9	584.5	592.2	459.2	469.4	445.7	451.6	458.5
Flat glass .....	321	16.3	16.4	16.0	16.0	-	13.2	13.3	12.5	12.6	-
Glass and glassware, pressed or blown .....	322	84.2	83.6	82.5	82.3	-	72.6	72.3	71.3	71.2	-
Glass containers .....	3221	42.1	41.8	41.8	41.7	-	38.0	38.0	37.9	37.8	-
Pressed and blown glass, nec .....	3229	42.1	41.8	40.7	40.6	-	34.6	34.3	33.4	33.4	-
Products of purchased glass .....	323	55.7	55.7	53.2	53.6	-	42.9	42.9	40.4	40.8	-
Cement, hydraulic .....	324	19.1	19.3	19.2	19.3	-	14.5	14.6	14.7	14.8	-
Structural clay products .....	325	37.9	38.4	36.2	36.8	-	29.5	29.9	27.8	28.4	-
Pottery and related products .....	326	38.4	38.2	39.0	38.5	-	30.6	30.5	31.0	30.5	-
Concrete, gypsum, and plaster products .....	327	204.5	214.7	200.9	205.3	-	154.9	164.6	151.5	155.7	-
Concrete block and brick .....	3271	18.8	19.3	17.8	18.2	-	11.9	12.5	11.4	11.8	-
Concrete products, nec .....	3272	73.0	75.3	71.9	72.4	-	55.3	57.4	53.7	54.2	-
Ready-mixed concrete .....	3273	92.8	100.2	91.6	95.1	-	72.5	79.5	71.3	74.6	-
Misc. nonmetallic mineral products .....	329	120.9	121.2	117.3	117.7	-	89.3	89.1	85.5	86.3	-
Abrasive products .....	3291	22.6	22.6	22.2	22.1	-	16.1	16.0	15.6	15.7	-
Asbestos products .....	3292	8.8	8.9	8.8	8.9	-	6.6	6.7	6.5	6.8	-
Mineral wool .....	3296	26.6	26.6	25.8	25.8	-	-	-	-	-	-
Primary metal industries .....	33	789.6	788.7	767.4	766.8	765.4	604.7	603.7	583.9	583.6	582.4
Blast furnaces and basic steel products .....	331	276.4	275.2	268.2	267.4	266.7	214.2	212.8	206.1	205.7	204.7
Blast furnaces and steel mills .....	3312	206.7	206.2	201.8	201.0	-	161.6	161.0	156.4	156.0	-
Steel pipe and tubes .....	3317	25.3	24.9	24.2	24.3	-	19.2	18.8	18.3	18.4	-
Iron and steel foundries .....	332	145.6	145.7	140.1	140.4	-	115.9	116.3	111.9	112.1	-
Gray iron foundries .....	3321	88.1	87.9	85.3	85.3	-	72.4	72.3	69.6	69.5	-
Malleable iron foundries .....	3322	9.8	9.8	8.5	8.6	-	7.4	7.4	6.4	6.6	-
Steel foundries, nec .....	3325	31.8	31.9	30.6	30.6	-	25.1	25.2	24.1	24.1	-
Primary nonferrous metals .....	333	45.3	45.3	45.5	45.3	-	33.9	33.9	33.9	33.6	-
Primary aluminum .....	3334	26.9	26.9	26.8	26.6	-	20.7	20.7	20.5	20.3	-
Nonferrous rolling and drawing .....	335	182.2	182.6	178.8	178.9	-	130.8	131.1	128.1	128.4	-
Copper rolling and drawing .....	3351	23.4	23.5	22.6	22.6	-	17.9	18.0	17.3	17.3	-
Aluminum sheet, plate, and foil .....	3353	28.3	28.4	28.3	28.3	-	19.1	19.2	19.0	19.0	-
Nonferrous wire drawing and insulating .....	3357	78.2	78.2	76.0	76.1	-	57.2	57.2	55.3	55.5	-
Nonferrous foundries .....	336	92.5	92.3	88.8	88.8	-	74.3	74.1	70.3	70.3	-
Aluminum foundries .....	3361	55.6	55.1	51.8	51.8	-	45.5	45.0	41.7	41.7	-
Fabricated metal products .....	34	1,451.3	1,449.5	1,414.6	1,416.0	1,420.1	1,080.3	1,076.5	1,041.5	1,042.6	1,047.6
Metal cans and shipping containers .....	341	52.3	52.3	52.2	52.5	-	44.9	45.0	44.9	44.8	-
Metal cans .....	3411	41.4	41.4	41.3	41.5	-	35.9	36.0	35.9	35.8	-
Cutlery, hand tools, and hardware .....	342	137.1	136.6	132.9	132.7	-	101.7	101.3	97.9	97.6	-
Hand and edge tools, and hand saws and blades .....	3423.5	46.3	46.2	45.7	45.6	-	33.9	33.8	33.7	33.6	-
Hardware, nec .....	3429	79.6	79.2	75.2	75.2	-	60.1	59.8	55.9	55.8	-
Plumbing and heating, except electric .....	343	59.7	59.8	60.5	60.3	-	43.3	43.3	43.2	42.8	-
Plumbing fittings and brass goods .....	3432	26.2	26.1	25.9	25.9	-	19.6	19.6	19.2	19.0	-
Heating equipment, except electric .....	3433	20.8	21.0	22.1	21.8	-	13.9	14.0	14.6	14.3	-
Fabricated structural metal products .....	344	431.9	432.2	425.5	424.8	-	308.7	308.0	300.1	299.2	-
Fabricated structural metal .....	3441	78.7	78.5	78.1	77.8	-	56.8	56.3	55.8	55.5	-
Metal doors, sash, and trim .....	3442	80.5	81.7	78.2	78.1	-	58.4	59.2	55.9	55.5	-
Fabricated plate work (boiler shops) .....	3443	107.4	107.3	107.4	107.8	-	72.7	72.7	71.8	72.4	-
Sheet metal work .....	3444	99.4	99.4	97.3	97.1	-	74.4	74.2	72.0	71.9	-
Architectural metal work .....	3446	33.7	33.2	32.2	32.2	-	24.7	24.1	23.0	22.8	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonagricultural payrolls by detailed industry—Continued**

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>
<b>Durable goods—Continued</b>											
Fabricated metal products—Continued											
Screw machine products, bolts, etc .....	345	102.3	101.9	99.2	99.2	-	78.3	77.9	76.1	76.2	-
Screw machine products .....	3451	50.8	50.6	49.0	49.2	-	41.5	41.3	39.7	39.9	-
Bolts, nuts, rivets, and washers .....	3452	51.5	51.3	50.2	50.0	-	36.8	36.6	36.4	36.3	-
Metal forgings and stampings .....	346	237.4	237.1	221.5	223.7	-	190.5	189.7	173.7	176.1	-
Iron and steel forgings .....	3462	33.5	33.6	32.3	32.0	-	25.9	25.9	24.8	24.5	-
Automotive stampings .....	3465	106.7	106.9	94.4	97.0	-	90.8	90.6	78.0	80.7	-
Metal stampings, nec .....	3469	84.6	84.0	82.2	82.2	-	64.3	63.7	61.6	61.6	-
Metal services, nec .....	347	128.9	129.1	128.4	128.5	-	102.7	102.6	101.0	100.9	-
Plating and polishing .....	3471	83.5	83.4	82.5	82.7	-	66.9	66.7	65.6	65.4	-
Metal coating and allied services .....	3479	45.4	45.7	45.9	45.8	-	35.8	35.9	35.4	35.5	-
Ordnance and accessories, nec .....	348	73.4	73.1	68.4	68.1	-	44.5	43.8	41.7	42.4	-
Ammunition, except for small arms, nec .....	3483	41.0	40.7	37.5	37.2	-	22.0	21.4	20.0	20.6	-
Misc. fabricated metal products .....	349	228.3	227.4	226.0	226.2	-	165.7	164.9	162.9	162.6	-
Valves and pipe fittings .....	3494	78.2	78.1	78.8	78.5	-	52.5	52.4	52.6	52.0	-
Misc. fabricated wire products .....	3496	55.8	55.8	56.1	56.2	-	42.5	42.5	42.6	42.6	-
Machinery, except electrical .....	35	2,147.2	2,148.4	2,144.3	2,137.4	2,124.9	1,304.0	1,303.1	1,303.2	1,298.5	1,294.9
Engines and turbines .....	351	98.1	97.9	98.9	99.0	-	64.8	64.3	64.6	64.6	-
Turbines and turbine generator sets .....	3511	26.8	27.4	29.2	29.4	-	15.7	16.0	16.9	16.8	-
Internal combustion engines, nec .....	3519	71.3	70.5	69.7	69.6	-	49.1	48.3	47.7	47.8	-
Farm and garden machinery .....	352	111.8	111.7	122.1	123.0	-	82.0	81.5	91.5	92.4	-
Farm machinery and equipment .....	3523	79.9	80.3	84.6	85.0	-	56.5	56.8	60.8	61.3	-
Construction and related machinery .....	353	235.5	236.6	240.1	241.0	-	145.0	145.6	147.9	148.4	-
Construction machinery .....	3531	85.4	86.0	86.6	87.1	-	53.3	53.6	53.4	53.8	-
Mining machinery .....	3532	16.6	16.7	17.1	17.2	-	10.3	10.3	10.6	10.7	-
Oil field machinery .....	3533	42.4	42.5	42.6	43.1	-	25.2	25.1	25.3	25.8	-
Conveyors and conveying equipment .....	3535	35.7	36.2	36.4	36.1	-	19.5	19.8	20.1	19.9	-
Industrial trucks and tractors .....	3537	28.3	28.2	29.2	29.2	-	19.3	19.5	19.9	19.8	-
Metalworking machinery .....	354	333.9	334.7	333.7	331.6	-	242.2	242.0	239.9	238.5	-
Machine tools, metal cutting types .....	3541	52.7	53.2	53.1	52.9	-	34.4	34.8	34.4	34.3	-
Machine tools, metal forming types .....	3542	19.4	19.4	19.9	19.8	-	12.7	12.6	12.5	12.5	-
Special dies, tools, jigs, and fixtures .....	3544	157.3	157.2	157.8	156.9	-	121.5	121.2	122.1	121.4	-
Machine tool accessories .....	3545	61.9	61.8	60.4	59.7	-	44.3	44.0	42.6	42.1	-
Power driven hand tools .....	3546	23.2	23.5	23.0	23.0	-	16.9	16.9	16.0	15.9	-
Special industry machinery .....	355	179.2	179.2	176.4	175.9	-	107.3	107.4	104.2	103.9	-
Food products machinery .....	3551	36.0	36.0	35.6	35.7	-	21.8	21.7	21.5	21.7	-
Textile machinery .....	3552	21.3	21.2	21.2	21.0	-	14.1	14.0	14.0	13.9	-
Printing trades machinery .....	3555	29.4	29.5	26.9	26.8	-	17.4	17.3	15.1	15.2	-
General industrial machinery .....	356	255.3	256.2	256.5	256.6	-	166.0	166.6	167.1	166.7	-
Pumps and pumping equipment .....	3561	45.9	46.0	45.9	46.4	-	26.5	26.7	27.0	27.3	-
Ball and roller bearings .....	3562	43.7	43.7	44.0	43.9	-	34.2	34.2	34.3	34.1	-
Air and gas compressors .....	3563	22.5	22.4	22.4	22.7	-	13.1	12.9	12.6	12.8	-
Blowers and fans .....	3564	31.3	31.5	31.6	31.5	-	20.8	21.0	21.5	21.3	-
Speed changers, drives, and gears .....	3566	17.5	17.7	17.7	17.7	-	12.2	12.4	12.4	12.3	-
Power transmission equipment, nec .....	3568	18.9	18.9	18.7	18.6	-	13.0	13.0	12.8	12.7	-
Office and computing machines .....	357	474.8	473.7	468.2	464.2	-	155.2	154.7	156.1	154.2	-
Electronic computing equipment .....	3573	419.8	418.7	413.7	410.5	-	129.9	129.1	130.7	129.2	-
Refrigeration and service machinery .....	358	188.1	188.3	178.9	177.4	-	135.5	135.8	126.6	125.3	-
Refrigeration and heating equipment .....	3585	131.3	131.5	124.1	123.2	-	97.7	97.8	90.4	89.6	-
Misc. machinery, except electrical .....	359	270.5	270.1	269.5	268.7	-	206.0	205.2	205.3	204.5	-
Carburetors, pistons, rings, and valves .....	3592	30.5	30.5	28.5	28.4	-	24.1	24.1	23.1	22.9	-
Machinery, except electrical, nec .....	3599	240.0	239.6	241.0	240.3	-	181.9	181.1	182.2	181.6	-
Electrical and electronic equipment .....	36	2,051.7	2,047.8	1,987.0	1,981.9	1,975.6	1,208.9	1,205.8	1,168.5	1,168.7	1,169.1
Electric distributing equipment .....	361	108.6	108.4	104.7	104.3	-	77.0	76.6	73.7	73.6	-
Transformers .....	3612	53.7	53.6	51.2	51.1	-	38.5	38.4	36.4	36.4	-
Switchgear and switchboard apparatus .....	3613	54.9	54.8	53.5	53.2	-	38.5	38.2	37.3	37.2	-
Electrical industrial apparatus .....	362	186.1	186.3	184.1	183.3	-	130.4	130.6	127.6	127.0	-
Motors and generators .....	3621	90.6	90.8	88.7	88.1	-	71.3	71.4	69.6	69.1	-
Industrial controls .....	3622	60.6	60.8	61.1	60.9	-	36.0	36.2	35.3	35.2	-
Household appliances .....	363	136.6	137.8	132.4	133.5	-	109.7	110.4	105.9	107.5	-
Household refrigerators and freezers .....	3632	27.9	29.2	25.2	25.8	-	23.2	23.7	20.4	21.4	-
Household laundry equipment .....	3633	22.7	22.3	22.8	23.1	-	18.5	18.1	18.7	18.9	-
Electric housewares and fans .....	3634	36.0	37.1	36.0	36.3	-	28.3	29.3	27.7	27.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonagricultural payrolls by detailed industry—Continued**

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>
<b>Durable goods—Continued</b>											
<b>Electrical and electronic equipment—Continued</b>											
Electric lighting and wiring equipment .....	364	202.5	201.0	195.3	195.1	-	147.2	145.3	141.4	142.0	-
Electric lamps .....	3641	26.7	26.5	25.9	26.4	-	22.8	22.6	22.2	22.7	-
Current-carrying wiring devices .....	3643	78.7	78.2	75.3	75.4	-	51.4	51.0	49.0	49.3	-
Noncurrent-carrying wiring devices .....	3644	17.0	17.1	16.9	16.7	-	12.8	12.8	12.5	12.3	-
Residential lighting fixtures .....	3645	28.9	28.1	27.4	27.4	-	21.9	20.9	20.4	20.4	-
Radio and TV receiving equipment .....	365	91.6	92.4	93.6	93.6	-	64.9	65.6	65.4	66.0	-
Radio and TV receiving sets .....	3651	67.8	68.6	69.4	69.3	-	46.7	47.3	46.6	46.9	-
Communication equipment .....	366	545.4	543.6	517.8	514.7	-	221.8	220.6	208.3	207.4	-
Telephone and telegraph apparatus .....	3661	104.7	104.8	96.5	95.1	-	62.5	62.3	58.2	57.9	-
Radio and TV communication equipment .....	3662	440.7	438.8	421.3	419.6	-	159.3	158.3	150.1	149.5	-
Electronic components and accessories .....	367	623.4	621.6	605.0	603.8	-	346.5	346.1	338.5	337.9	-
Electronic tubes .....	3671-3	38.8	38.6	37.8	37.9	-	24.9	24.7	23.8	23.7	-
Semiconductors and related devices .....	3674	258.6	257.7	254.1	253.3	-	96.6	96.3	97.6	97.1	-
Electronic components, nec .....	3679	252.0	251.6	244.8	244.8	-	170.1	170.3	167.1	167.2	-
Misc. electrical equipment and supplies .....	369	157.5	156.7	154.1	153.6	-	111.4	110.6	107.7	107.3	-
Storage batteries .....	3691	27.6	27.9	28.8	28.3	-	20.9	21.0	22.2	21.7	-
Engine electrical equipment .....	3694	70.0	69.6	66.7	66.6	-	53.7	53.5	50.3	50.4	-
Transportation equipment .....	37	2,066.6	2,075.1	2,023.0	2,021.7	2,024.7	1,291.9	1,301.7	1,242.1	1,244.1	1,248.3
Motor vehicles and equipment .....	371	868.6	876.7	824.5	824.2	828.2	676.1	683.1	629.5	631.1	634.7
Motor vehicles and car bodies .....	3711	359.4	364.8	343.3	341.8	-	269.3	273.7	250.0	250.3	-
Truck and bus bodies .....	3713	43.6	43.9	43.2	43.0	-	33.8	34.2	33.9	33.8	-
Motor vehicle parts and accessories .....	3714	413.8	415.9	392.6	395.0	-	332.2	334.0	310.6	313.0	-
Truck trailers .....	3715	30.6	31.1	26.8	26.8	-	24.2	24.7	21.0	21.0	-
Aircraft and parts .....	372	695.7	697.9	709.1	706.4	-	338.2	340.3	341.8	340.9	-
Aircraft .....	3721	373.2	375.6	385.2	382.9	-	163.8	165.9	166.2	165.2	-
Aircraft engines and engine parts .....	3724	150.6	150.4	151.9	151.7	-	75.8	75.9	76.5	76.6	-
Aircraft equipment, nec .....	3728	171.9	171.9	172.0	171.8	-	98.6	98.5	99.1	99.1	-
Ship and boat building and repairing .....	373	192.1	191.5	183.0	184.7	-	143.2	143.6	136.4	138.2	-
Ship building and repairing .....	3731	121.4	120.1	121.2	122.3	-	83.9	83.7	85.9	87.2	-
Boat building and repairing .....	3732	70.7	71.4	61.8	62.4	-	59.3	59.9	50.5	51.0	-
Railroad equipment .....	374	38.1	38.3	39.6	39.5	-	28.4	28.6	29.3	29.2	-
Guided missiles, space vehicles, and parts .....	376	208.7	207.7	206.2	205.6	-	62.0	62.4	63.9	63.2	-
Guided missiles and space vehicles .....	3761	153.0	152.7	153.5	153.6	-	42.1	42.3	43.3	43.1	-
Miscellaneous transportation equipment .....	379	49.7	49.4	46.8	47.5	-	34.2	33.9	30.9	31.3	-
Travel trailers and campers .....	3792	20.7	20.5	19.7	20.1	-	16.5	16.3	15.1	15.5	-
Instruments and related products .....	38	774.0	775.7	774.1	773.8	774.4	426.5	427.6	427.3	426.5	428.8
Engineering and scientific instruments .....	381	99.3	99.6	100.4	100.9	-	46.0	46.1	48.2	48.6	-
Measuring and controlling devices .....	382	269.7	269.5	267.4	266.7	-	154.6	154.5	151.5	151.2	-
Environmental controls .....	3822	49.5	49.4	47.7	47.6	-	33.3	33.2	32.0	32.0	-
Process control instruments .....	3823	62.9	63.0	63.5	63.5	-	33.8	33.9	33.4	33.2	-
Instruments to measure electricity .....	3825	108.8	108.6	108.1	107.5	-	55.1	54.9	54.5	54.3	-
Optical instruments and lenses .....	383	30.8	30.7	30.0	29.8	-	16.1	16.2	15.6	15.3	-
Medical instruments and supplies .....	384	208.4	209.9	214.4	214.3	-	125.4	126.2	128.0	127.8	-
Surgical and medical instruments .....	3841	103.4	104.6	106.7	106.6	-	60.4	61.1	61.2	60.9	-
Surgical appliances and supplies .....	3842	90.1	90.4	92.9	92.9	-	56.8	56.8	58.3	58.3	-
Ophthalmic goods .....	385	38.9	39.1	40.3	41.0	-	26.4	26.6	27.7	28.5	-
Photographic equipment and supplies .....	386	115.5	115.5	110.6	110.1	-	49.4	49.4	48.0	46.9	-
Watches, clocks, and watchcases .....	387	11.4	11.4	11.0	11.0	-	8.6	8.6	8.3	8.2	-
Miscellaneous manufacturing .....	39	387.9	390.2	389.2	389.6	389.8	281.0	283.5	282.5	282.6	282.1
Jewelry, silverware, and plated ware .....	391	53.3	53.6	53.1	53.3	-	37.7	38.0	37.0	37.1	-
Jewelry, precious metal .....	3911	38.3	38.7	38.3	38.7	-	27.0	27.3	26.5	26.7	-
Musical instruments .....	393	13.4	13.4	12.7	12.6	-	11.1	11.0	10.4	10.3	-
Toys and sporting goods .....	394	104.5	105.6	105.2	105.4	-	76.6	77.7	76.8	76.4	-
Dolls, games, toys, and children's vehicles .....	3942.4	44.0	44.6	44.3	43.9	-	30.6	31.3	31.1	30.4	-
Sporting and athletic goods, nec .....	3949	60.5	61.0	60.9	61.5	-	46.0	46.4	45.7	46.0	-
Pens, pencils, office, and art supplies .....	395	34.1	34.3	33.7	33.6	-	23.6	23.8	23.6	23.7	-
Costume jewelry and notions .....	396	40.8	41.0	43.1	44.3	-	31.8	32.0	33.6	34.6	-
Costume jewelry .....	3961	22.4	22.2	25.0	25.7	-	17.3	17.1	19.9	20.3	-
Miscellaneous manufactures .....	399	141.8	142.3	141.4	140.4	-	100.2	101.0	101.1	100.5	-
Signs and advertising displays .....	3993	62.3	62.4	63.2	62.6	-	42.9	43.1	44.3	43.8	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonagricultural payrolls by detailed industry—Continued**

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>
<b>Nondurable goods</b> .....		8,006	8,007	7,982	7,974	7,981	5,638	5,635	5,592	5,579	5,591
Food and kindred products .....	20	1,598.6	1,600.4	1,618.3	1,612.4	1,612.2	1,132.3	1,133.1	1,150.6	1,145.5	1,145.6
Meat products .....	201	408.3	409.7	423.6	422.5	-	346.0	347.4	359.9	358.9	-
Meat packing plants .....	2011	142.3	142.2	145.2	144.4	-	119.1	118.8	121.8	121.2	-
Sausages and other prepared meats .....	2013	81.8	82.0	82.2	82.0	-	59.9	60.3	60.3	60.5	-
Poultry dressing plants .....	2016	161.0	162.4	171.5	171.7	-	146.3	147.8	155.5	155.2	-
Dairy products .....	202	155.4	156.1	152.1	153.3	-	94.8	95.6	92.6	93.6	-
Cheese, natural and processed .....	2022	41.3	41.5	41.0	41.4	-	31.5	31.6	31.3	31.6	-
Fluid milk .....	2026	74.6	74.5	73.5	73.6	-	37.3	37.5	36.5	36.4	-
Preserved fruits and vegetables .....	203	227.4	227.5	229.4	227.9	-	183.4	183.3	186.3	185.4	-
Canned specialties .....	2032	23.5	23.3	24.3	23.2	-	16.8	16.6	18.0	17.3	-
Canned fruits and vegetables .....	2033	69.5	70.7	67.7	67.0	-	56.4	57.4	55.2	55.0	-
Frozen fruits and vegetables .....	2037	46.1	44.6	47.9	48.6	-	40.0	38.5	41.4	42.0	-
Grain mill products .....	204	124.8	124.7	130.6	130.1	-	87.2	86.7	90.7	90.3	-
Flour and other grain mill products .....	2041	22.1	22.0	24.4	24.3	-	15.3	15.1	16.1	16.0	-
Prepared feeds, nec .....	2048	42.1	42.2	43.0	43.1	-	26.7	26.7	27.4	27.6	-
Bakery products .....	205	198.6	198.1	199.7	199.5	-	121.1	120.7	122.4	122.6	-
Bread, cake, and related products .....	2051	153.5	153.6	154.5	154.7	-	87.0	87.0	87.5	88.1	-
Cookies and crackers .....	2052	45.1	44.5	45.2	44.8	-	34.1	33.7	34.9	34.5	-
Sugar and confectionery products .....	206	93.8	91.4	100.4	97.1	-	72.5	70.4	77.9	74.7	-
Cane and beet sugar .....	2061-3	17.9	17.5	18.7	17.2	-	13.7	13.2	14.5	13.1	-
Confectionery products .....	2065	55.4	53.2	59.2	58.4	-	45.3	43.5	48.3	47.4	-
Fats and oils .....	207	32.1	32.2	31.6	31.0	-	23.5	23.7	23.0	22.5	-
Beverages .....	208	195.3	196.9	190.1	190.2	-	82.8	83.4	78.8	78.9	-
Malt beverages .....	2082	40.5	40.8	39.9	40.2	-	24.5	24.7	24.0	24.2	-
Bottled and canned soft drinks .....	2086	110.4	111.7	109.1	108.9	-	36.3	36.9	34.9	35.0	-
Misc. food and kindred products .....	209	162.9	163.8	160.8	160.8	-	121.0	121.9	119.0	118.6	-
Tobacco manufactures .....	21	54.5	51.4	51.5	49.1	45.8	40.1	37.4	39.2	36.1	32.7
Cigarettes .....	211	40.3	39.9	36.5	36.3	-	29.6	29.3	27.6	27.1	-
Textile mill products .....	22	727.2	727.7	712.5	709.4	708.7	629.8	629.7	612.3	609.5	609.7
Weaving mills, cotton .....	221	96.1	96.4	94.2	92.9	-	86.4	86.6	84.8	83.5	-
Weaving mills, synthetics .....	222	91.6	91.0	89.0	88.2	-	81.6	80.8	78.3	77.6	-
Weaving and finishing mills, wool .....	223	19.6	19.6	18.0	17.9	-	15.9	15.9	14.5	14.2	-
Narrow fabric mills .....	224	24.8	24.5	24.1	24.0	-	21.2	20.9	20.2	20.2	-
Knitting mills .....	225	209.7	211.3	205.7	205.4	-	185.2	186.6	179.7	179.2	-
Women's hosiery, except socks .....	2251	33.6	33.7	32.7	32.8	-	30.3	30.4	29.2	29.2	-
Hosiery, nec .....	2252	36.8	36.9	37.3	37.1	-	33.4	33.5	33.7	33.3	-
Knit outerwear mills .....	2253	68.6	70.0	67.0	66.9	-	61.3	62.4	58.7	58.7	-
Knit underwear mills .....	2254	25.5	25.4	24.0	23.7	-	21.6	21.6	20.4	20.1	-
Circular knit fabric mills .....	2257	26.4	26.6	27.1	27.1	-	23.0	23.2	23.4	23.5	-
Textile finishing, except wool .....	226	61.5	61.5	61.9	61.7	-	50.7	50.7	50.0	50.1	-
Finishing plants, cotton .....	2261	25.6	25.7	26.9	26.7	-	21.0	21.1	21.4	21.4	-
Finishing plants, synthetics .....	2262	21.7	21.7	21.5	21.4	-	17.5	17.6	17.2	17.1	-
Floor covering mills .....	227	61.2	61.4	64.1	64.2	-	49.8	50.0	52.4	52.6	-
Yarn and thread mills .....	228	106.7	106.1	101.1	100.5	-	95.5	94.9	90.6	89.8	-
Yarn mills, except wool .....	2281	80.4	79.9	75.8	75.5	-	72.6	72.1	68.3	67.9	-
Throwing and winding mills .....	2282	14.5	14.4	13.6	13.7	-	12.8	12.7	12.1	12.2	-
Miscellaneous textile goods .....	229	56.0	55.9	54.4	54.6	-	43.5	43.3	41.8	42.3	-
Apparel and other textile products .....	23	1,102.3	1,100.3	1,063.9	1,055.7	1,062.8	931.5	929.6	895.4	887.3	893.9
Men's and boys' suits and coats .....	231	58.1	57.1	50.5	50.9	-	49.8	48.9	42.6	43.2	-
Men's and boys' furnishings .....	232	300.8	300.9	292.2	285.6	-	260.4	260.7	251.9	245.8	-
Men's and boys' shirts and nightwear .....	2321	75.2	75.0	72.8	69.9	-	64.3	64.4	62.5	59.9	-
Men's and boys' separate trousers .....	2327	50.5	50.3	47.1	45.2	-	43.8	43.6	40.4	38.7	-
Men's and boys' work clothing .....	2328	90.8	91.4	88.7	87.0	-	79.8	80.2	77.2	75.7	-
Women's and misses' outerwear .....	233	344.7	342.0	323.2	322.4	-	289.8	287.0	270.0	268.6	-
Women's and misses' blouses and waists .....	2331	43.4	43.0	39.8	39.6	-	36.3	35.6	32.7	32.5	-
Women's and misses' dresses .....	2335	78.7	77.0	72.7	74.1	-	66.0	64.2	60.0	61.3	-
Women's and misses' suits and coats .....	2337	35.8	37.8	34.3	34.3	-	29.6	31.5	27.9	27.8	-
Women's and misses' outerwear, nec .....	2339	186.8	184.2	176.4	174.4	-	157.9	155.7	149.4	147.0	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonagricultural payrolls by detailed industry—Continued**

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Apparel and other textile products—Continued											
Women's and children's undergarments .....	234	71.0	70.8	66.2	65.7	-	58.8	58.8	54.9	54.4	-
Women's and children's underwear .....	2341	57.1	56.9	52.8	52.5	-	49.1	49.0	45.8	45.4	-
Brassieres and allied garments .....	2342	13.9	13.9	13.4	13.2	-	9.7	9.8	9.1	9.0	-
Children's outerwear .....	236	56.4	56.5	57.6	56.2	-	47.2	47.3	48.7	47.5	-
Children's dresses and blouses .....	2361	22.0	22.2	22.4	21.4	-	19.1	19.3	19.6	18.7	-
Misc. apparel and accessories .....	238	44.0	44.2	43.4	42.2	-	36.2	36.5	36.1	34.9	-
Misc. fabricated textile products .....	239	208.8	210.1	211.3	212.9	-	174.3	175.2	175.2	176.7	-
Curtains and draperies .....	2391	25.3	25.8	26.4	26.0	-	21.0	21.5	22.0	21.5	-
House furnishings, nec .....	2392	56.1	55.8	57.4	57.2	-	47.4	46.9	48.1	47.9	-
Automotive and apparel trimmings .....	2396	44.1	44.8	44.4	46.0	-	37.3	38.2	37.1	38.7	-
Paper and allied products .....	26	693.1	692.1	694.4	693.8	693.9	522.0	520.4	523.6	522.3	524.1
Paper and pulp mills .....	261,2,6	192.4	191.9	193.5	193.8	-	146.0	145.5	146.7	146.5	-
Paper mills, except building paper .....	262	172.2	171.8	173.4	173.6	-	130.0	129.6	130.6	130.5	-
Paperboard mills .....	263	52.4	52.4	52.7	52.1	-	40.2	40.1	40.4	39.7	-
Misc. converted paper products .....	264	239.1	238.3	238.9	238.7	-	174.0	172.9	174.9	174.6	-
Paper coating and glazing .....	2641	60.2	60.1	60.4	59.4	-	34.8	34.7	35.7	34.8	-
Envelopes .....	2642	26.9	26.8	26.6	26.5	-	20.9	20.8	20.6	20.5	-
Bags, except textile bags .....	2643	53.8	52.9	53.7	53.3	-	42.3	41.4	42.1	41.8	-
Paperboard containers and boxes .....	265	209.2	209.5	209.3	209.2	-	161.8	161.9	161.6	161.5	-
Folding paperboard boxes .....	2651	46.4	46.4	46.5	46.6	-	37.0	36.9	37.1	37.2	-
Corrugated and solid fiber boxes .....	2653	113.6	113.6	114.4	114.3	-	85.3	85.3	85.9	85.7	-
Sanitary food containers .....	2654	22.3	22.3	22.0	21.9	-	18.7	18.7	18.4	18.4	-
Printing and publishing .....	27	1,599.8	1,602.2	1,624.9	1,627.2	1,627.3	891.8	893.0	904.1	905.4	906.0
Newspapers .....	271	475.4	474.8	481.1	480.9	-	168.9	168.0	167.5	167.8	-
Periodicals .....	272	134.8	134.5	138.6	139.0	-	47.5	47.4	51.0	50.7	-
Books .....	273	122.3	123.5	123.1	123.9	-	65.4	66.2	66.9	67.2	-
Book publishing .....	2731	90.4	91.3	91.3	91.6	-	40.0	40.6	40.7	40.8	-
Book printing .....	2732	31.9	32.2	31.8	32.3	-	25.4	25.6	26.2	26.4	-
Miscellaneous publishing .....	274	81.8	82.9	83.4	83.9	-	42.5	42.7	42.7	43.1	-
Commercial printing .....	275	570.6	572.3	580.7	582.1	-	414.3	416.0	421.1	422.2	-
Commercial printing, letterpress .....	2751	175.0	176.0	178.9	179.3	-	126.3	127.0	128.2	128.5	-
Commercial printing, lithographic .....	2752	367.5	367.9	374.2	374.9	-	265.6	266.2	271.3	271.6	-
Manifold business forms .....	276	49.6	49.2	48.5	48.2	-	33.8	33.5	33.7	33.4	-
Blankbooks and bookbinding .....	278	80.5	80.3	82.0	81.7	-	62.5	62.3	63.0	62.8	-
Printing trade services .....	279	60.8	60.5	61.4	61.3	-	44.8	44.5	45.1	45.1	-
Chemicals and allied products .....	28	1,084.4	1,086.4	1,100.4	1,102.7	1,102.2	608.4	608.1	614.7	613.6	614.1
Industrial inorganic chemicals .....	281	133.8	133.9	136.2	136.5	-	68.1	68.3	70.2	69.8	-
Industrial inorganic chemicals, nec .....	2819	90.5	90.4	91.8	91.9	-	48.0	48.0	48.5	48.5	-
Plastics materials and synthetics .....	282	183.6	184.0	189.4	188.7	-	120.0	120.4	123.2	122.9	-
Plastics materials and resins .....	2821	85.5	86.0	88.3	87.9	-	50.6	50.9	52.1	51.8	-
Organic fibers, noncellulosic .....	2824	68.8	68.8	71.0	70.7	-	48.5	48.7	50.0	50.0	-
Drugs .....	283	238.4	239.5	247.1	248.2	-	105.0	104.0	111.1	110.5	-
Pharmaceutical preparations .....	2834	196.4	197.3	203.8	204.8	-	85.6	85.0	92.4	92.2	-
Soap, cleaners, and toilet goods .....	284	161.8	161.4	158.3	158.6	-	102.4	102.2	97.9	98.1	-
Soap and other detergents .....	2841	43.3	43.4	43.8	43.4	-	27.0	27.1	28.1	27.6	-
Polishing, sanitation, and finishing preparations .....	2842,3	46.5	46.3	47.0	47.2	-	26.5	26.4	25.5	25.9	-
Toilet preparations .....	2844	72.0	71.7	67.5	68.0	-	48.9	48.7	44.3	44.6	-
Paints and allied products .....	285	63.0	62.9	62.9	63.0	-	31.8	31.6	31.6	31.8	-
Industrial organic chemicals .....	286	148.8	149.2	152.1	152.3	-	86.7	87.0	87.0	86.1	-
Cyclic crudes and intermediates .....	2865	30.5	30.6	31.5	31.5	-	18.9	18.9	19.0	18.9	-
Gum, wood, and industrial organic chemicals, nec .....	2861,9	118.3	118.6	120.6	120.8	-	67.8	68.1	68.0	67.2	-
Agricultural chemicals .....	287	53.7	54.3	53.7	54.4	-	34.1	34.5	33.5	34.2	-
Miscellaneous chemical products .....	289	101.3	101.2	100.7	101.0	-	60.3	60.1	60.2	60.2	-
Petroleum and coal products .....	29	158.1	160.6	160.4	162.2	164.9	101.9	104.2	103.8	105.8	108.1
Petroleum refining .....	291	121.6	121.6	123.7	124.0	-	77.2	77.2	79.0	79.8	-
Paving and roofing materials .....	295	23.7	26.2	23.5	25.0	-	17.6	19.9	17.4	18.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonagricultural payrolls by detailed industry—Continued**

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>
<b>Nondurable goods—Continued</b>											
Rubber and misc. plastics products .....	30	845.5	844.5	820.9	826.5	828.9	662.1	661.6	636.6	642.1	645.2
Tires and inner tubes .....	301	84.7	84.8	82.8	84.3	-	63.7	63.9	60.8	62.5	-
Rubber and plastics footwear .....	302	11.1	11.0	10.9	11.0	-	9.1	9.0	8.9	9.0	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	27.8	27.8	27.0	27.0	-	20.7	20.7	20.1	20.1	-
Fabricated rubber products, nec .....	306	102.0	101.1	95.4	95.1	-	78.6	77.9	72.3	72.0	-
Miscellaneous plastics products .....	307	619.9	619.8	604.8	609.1	-	490.0	490.1	474.5	478.5	-
Leather and leather products .....	31	142.4	141.8	135.2	134.7	134.6	117.7	117.5	112.0	111.6	111.1
Leather tanning and finishing .....	311	14.2	14.3	14.5	14.6	-	12.0	12.0	12.2	12.2	-
Footwear, except rubber .....	314	81.3	80.9	75.6	75.3	-	69.2	69.0	64.4	64.2	-
Men's footwear, except athletic .....	3143	35.9	35.8	33.0	32.9	-	28.9	29.0	26.9	26.9	-
Women's footwear, except athletic .....	3144	27.8	27.8	26.6	26.4	-	24.7	24.6	23.6	23.3	-
Luggage .....	316	11.5	11.7	11.8	11.7	-	8.3	8.4	8.6	8.5	-
Handbags and personal leather goods .....	317	15.9	15.7	14.4	14.1	-	12.3	12.1	11.3	11.1	-
<b>Transportation and public utilities .....</b>		<b>5,607</b>	<b>5,649</b>	<b>5,790</b>	<b>5,806</b>	<b>5,835</b>	<b>4,666</b>	<b>4,707</b>	<b>4,831</b>	<b>4,851</b>	<b>4,873</b>
Transportation .....		3,404	3,443	3,587	3,605	3,627	-	-	-	-	-
Railroad transportation .....	40	291.8	297.0	281.0	280.0	-	-	-	-	-	-
Class I railroads <sup>2</sup> .....	4011	249.3	253.7	238.0	236.5	-	-	-	-	-	-
Local and interurban passenger transit .....	41	337.4	341.8	354.3	350.2	-	310.9	314.6	323.3	319.2	-
Local and suburban transportation .....	411	127.1	128.2	137.0	137.4	-	115.9	116.7	123.0	123.3	-
Taxicabs .....	412	36.2	35.9	34.9	35.2	-	-	-	-	-	-
Intercity highway transportation .....	413	29.2	29.5	28.8	20.7	-	26.1	26.4	25.2	17.2	-
School buses .....	415	115.0	116.8	123.4	124.9	-	-	-	-	-	-
Trucking and warehousing .....	42	1,601.5	1,616.8	1,653.7	1,665.6	-	1,393.8	1,410.9	1,436.9	1,450.4	-
Trucking and trucking terminals .....	421,3	1,483.7	1,498.9	1,531.6	1,543.3	-	1,294.8	1,312.2	1,335.1	1,348.4	-
Public warehousing .....	422	117.8	117.9	122.1	122.3	-	99.0	98.7	101.8	102.0	-
Water transportation .....	44	169.1	173.5	162.7	165.1	-	-	-	-	-	-
Local water transportation .....	445	27.5	28.6	28.3	28.9	-	-	-	-	-	-
Water transportation services .....	446	92.8	95.3	85.0	86.6	-	-	-	-	-	-
Transportation by air .....	45	651.7	658.0	757.2	763.0	-	-	-	-	-	-
Air transportation .....	451,2	556.8	563.5	652.9	658.1	-	-	-	-	-	-
Air transportation services .....	458	94.9	94.5	104.3	104.9	-	-	-	-	-	-
Pipe lines, except natural gas .....	46	18.1	18.2	19.2	19.3	-	12.8	12.9	13.9	14.0	-
Transportation services .....	47	334.5	337.3	358.6	361.6	-	-	-	-	-	-
Freight forwarding .....	471	74.5	75.1	79.0	79.3	-	-	-	-	-	-
Communication and public utilities .....		2,203	2,206	2,203	2,201	2,208	-	-	-	-	-
Communication .....	48	1,276.0	1,276.0	1,267.8	1,261.8	-	969.9	971.2	971.1	969.1	-
Telephone communication .....	481	884.4	882.4	862.8	855.8	-	652.7	652.3	644.2	641.5	-
Radio and television broadcasting .....	483	241.8	243.1	247.7	247.6	-	200.1	201.0	204.3	204.5	-
Radio broadcasting .....	4832	120.3	120.8	123.4	123.1	-	-	-	-	-	-
Television broadcasting .....	4833	121.5	122.3	124.3	124.5	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	927.2	929.7	935.4	939.5	-	732.0	733.8	738.4	742.5	-
Electric services .....	491	448.7	448.6	445.4	447.2	-	342.9	342.9	342.9	345.2	-
Gas production and distribution .....	492	164.3	164.9	167.5	168.3	-	129.1	129.5	130.6	131.1	-
Combination utility services .....	493	192.4	192.8	192.3	192.2	-	157.4	157.1	155.1	155.0	-
Sanitary services .....	495	92.9	94.1	100.8	102.2	-	80.3	81.6	87.1	88.2	-
<b>Wholesale trade .....</b>		<b>6,154</b>	<b>6,186</b>	<b>6,276</b>	<b>6,302</b>	<b>6,327</b>	<b>4,950</b>	<b>4,976</b>	<b>5,035</b>	<b>5,055</b>	<b>5,079</b>
Durable goods .....	50	3,658	3,669	3,736	3,747	3,757	2,923	2,931	2,977	2,985	-
Motor vehicles and automotive equipment .....	501	434.9	436.9	433.5	433.3	-	350.7	353.2	349.6	349.4	-
Automobiles and other motor vehicles .....	5012	123.7	124.2	122.5	122.5	-	-	-	-	-	-
Automotive parts and supplies .....	5013	281.1	282.2	280.4	280.1	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonagricultural payrolls by detailed industry—Continued**

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>
<b>Wholesale trade—Continued</b>											
Durable goods—Continued											
Furniture and home furnishings .....	502	156.2	155.8	155.4	154.3	-	126.3	125.8	125.2	124.2	-
Furniture .....	5021	72.5	72.7	70.7	70.4	-	-	-	-	-	-
Home furnishings .....	5023	83.7	83.1	84.7	83.9	-	-	-	-	-	-
Lumber and construction materials .....	503	231.0	232.1	238.9	241.0	-	188.5	189.5	194.5	196.6	-
Lumber, plywood, and millwork .....	5031	121.1	120.9	125.4	126.2	-	-	-	-	-	-
Construction materials, nec .....	5039	109.9	111.2	113.5	114.8	-	-	-	-	-	-
Sporting goods, toys, and hobby goods .....	504	95.0	95.2	97.3	96.9	-	76.0	75.9	77.6	77.0	-
Metals and minerals, except petroleum .....	505	145.5	145.7	143.6	143.5	-	115.6	115.4	113.8	113.8	-
Electrical goods .....	506	520.8	520.6	545.7	548.2	-	400.4	398.6	414.7	415.9	-
Electrical apparatus and equipment .....	5063	272.1	272.4	289.3	289.8	-	-	-	-	-	-
Electrical appliances, TV and radios .....	5064	68.9	69.0	70.3	70.7	-	-	-	-	-	-
Electronic parts and equipment .....	5065	179.8	179.2	186.1	187.7	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	281.8	283.4	280.6	280.1	-	228.5	229.7	225.8	225.4	-
Hardware .....	5072	97.4	97.9	95.2	94.8	-	-	-	-	-	-
Plumbing and hydronic heating supplies .....	5074	117.0	117.7	116.3	116.6	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	1,557.9	1,563.6	1,603.1	1,610.5	-	1,248.2	1,253.0	1,285.3	1,290.9	-
Commercial machines and equipment .....	5081	558.3	557.8	565.0	566.7	-	-	-	-	-	-
Construction and mining machinery .....	5082	84.6	85.0	87.0	87.5	-	-	-	-	-	-
Farm machinery and equipment .....	5083	120.0	123.0	124.7	126.7	-	-	-	-	-	-
Industrial machinery and equipment .....	5084	343.9	344.9	358.8	359.3	-	-	-	-	-	-
Industrial supplies .....	5085	144.2	144.7	150.4	152.1	-	-	-	-	-	-
Professional equipment and supplies .....	5086	179.2	179.4	182.2	183.0	-	-	-	-	-	-
Miscellaneous durable goods .....	509	234.8	235.3	237.5	238.8	-	189.0	190.1	190.7	191.9	-
Scrap and waste materials .....	5093	110.3	111.0	112.3	112.4	-	-	-	-	-	-
Nondurable goods .....	51	2,496	2,517	2,540	2,555	2,570	2,027	2,045	2,058	2,070	-
Paper and paper products .....	511	225.2	225.7	230.5	231.6	-	182.5	182.0	184.0	184.0	-
Drugs, proprietaries, and sundries .....	512	186.5	186.8	190.6	191.6	-	156.7	157.0	159.2	159.7	-
Apparel, piece goods, and notions .....	513	196.2	197.1	202.8	203.7	-	151.7	152.1	157.6	158.1	-
Groceries and related products .....	514	823.1	827.4	832.8	836.9	-	688.6	694.7	697.1	699.8	-
Groceries, general line .....	5141	269.3	270.0	278.0	278.9	-	-	-	-	-	-
Meats and meat products .....	5147	66.3	66.7	66.4	65.9	-	-	-	-	-	-
Fresh fruits and vegetables .....	5148	99.6	100.4	96.8	99.1	-	-	-	-	-	-
Chemicals and allied products .....	516	128.9	130.1	130.0	130.8	-	92.7	93.6	95.0	95.9	-
Petroleum and petroleum products .....	517	206.8	207.2	206.8	206.6	-	162.4	162.5	163.6	164.0	-
Petroleum bulk stations and terminals .....	5171	86.9	87.0	87.4	87.5	-	-	-	-	-	-
Petroleum products, nec .....	5172	119.9	120.2	119.4	119.1	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	150.8	151.4	154.0	154.6	-	123.3	123.6	125.4	126.1	-
Beer and ale .....	5181	95.3	95.9	97.3	98.1	-	-	-	-	-	-
Wines and distilled beverages .....	5182	55.5	55.5	56.7	56.5	-	-	-	-	-	-
Miscellaneous nondurable goods .....	519	458.8	470.2	476.7	484.0	-	371.5	381.7	382.9	389.9	-
Farm supplies .....	5191	155.2	163.9	160.0	164.3	-	-	-	-	-	-
<b>Retail trade .....</b>		<b>19,059</b>	<b>19,275</b>	<b>19,279</b>	<b>19,363</b>	<b>19,584</b>	<b>16,830</b>	<b>17,028</b>	<b>17,011</b>	<b>17,087</b>	<b>17,294</b>
Building materials and garden supplies .....	52	746.2	774.2	741.7	759.8	-	614.0	640.6	610.8	627.4	-
Lumber and other building materials .....	521	414.3	423.5	411.7	417.3	-	346.8	356.0	344.5	349.1	-
Hardware stores .....	525	162.0	165.8	167.3	170.3	-	134.0	137.3	137.3	140.1	-
General merchandise stores .....	53	2,398.0	2,404.9	2,388.8	2,363.0	2,364.2	2,204.6	2,209.5	2,217.4	2,193.7	-
Department stores .....	531	1,981.0	1,987.3	1,986.4	1,963.9	-	1,831.1	1,834.5	1,855.9	1,836.0	-
Variety stores .....	533	234.3	233.6	222.8	222.2	-	214.5	214.2	204.8	203.8	-
Misc. general merchandise stores .....	539	182.7	184.0	179.6	176.9	-	159.0	160.8	156.7	153.9	-
Food stores .....	54	3,184.3	3,197.0	3,327.5	3,321.9	3,335.5	2,930.8	2,940.8	3,055.8	3,049.2	-
Grocery stores .....	541	2,819.8	2,829.4	2,948.3	2,940.3	-	2,609.9	2,616.7	2,722.5	2,713.8	-
Meat markets and freezer provisioners .....	542	55.9	55.7	57.1	57.8	-	-	-	-	-	-
Dairy products stores .....	545	29.8	30.5	27.3	27.8	-	-	-	-	-	-
Retail bakeries .....	546	174.4	175.3	178.0	179.8	-	157.2	157.9	158.9	160.6	-
Automotive dealers and service stations .....	55	2,129.4	2,148.4	2,141.3	2,149.3	2,159.3	1,778.3	1,796.3	1,778.3	1,785.3	-
New and used car dealers .....	551,2	1,046.6	1,046.5	1,028.2	1,030.2	-	868.5	868.5	849.2	850.6	-
Auto and home supply stores .....	553	341.1	347.9	359.5	361.8	-	273.9	279.8	286.2	288.9	-
Gasoline service stations .....	554	633.3	637.6	637.0	636.6	-	549.7	554.5	551.3	550.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonagricultural payrolls by detailed industry—Continued**

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>
<b>Retail trade—Continued</b>											
Apparel and accessory stores .....	56	1,165.1	1,164.4	1,141.4	1,138.0	-	979.4	978.7	953.8	951.0	-
Men's and boys' clothing and furnishings .....	561	106.4	105.7	103.4	101.4	-	86.1	85.2	82.2	80.6	-
Women's ready-to-wear stores .....	562	410.8	412.8	397.6	395.9	-	344.7	345.6	328.7	328.7	-
Family clothing stores .....	565	269.3	269.3	263.2	262.7	-	232.0	232.1	226.6	225.2	-
Shoe stores .....	566	229.1	227.0	227.1	229.7	-	190.8	188.9	189.3	191.1	-
Furniture and home furnishings stores .....	57	805.2	802.2	808.3	807.0	-	659.5	656.5	663.0	661.4	-
Furniture and home furnishings stores .....	571	469.2	469.8	472.1	472.9	-	382.1	382.5	384.7	385.2	-
Furniture stores .....	5712	290.5	290.2	290.9	291.6	-	-	-	-	-	-
Household appliance stores .....	572	80.2	77.8	73.2	72.0	-	66.9	64.7	60.5	59.4	-
Radio, television, and music stores .....	573	255.8	254.6	263.0	262.1	-	210.5	209.3	217.8	216.8	-
Radio and television stores .....	5732	179.3	177.8	182.9	182.5	-	-	-	-	-	-
Music stores .....	5733	76.5	76.8	80.1	79.6	-	-	-	-	-	-
Eating and drinking places .....	58	6,164.2	6,316.0	6,195.6	6,311.5	6,474.8	5,596.2	5,739.9	5,608.4	5,719.2	-
Miscellaneous retail .....	59	2,466.7	2,468.2	2,534.6	2,512.9	-	2,066.9	2,065.6	2,123.2	2,099.3	-
Drug stores and proprietary stores .....	591	600.2	599.5	618.4	618.4	-	508.6	508.0	519.9	519.7	-
Liquor stores .....	592	122.4	123.1	123.9	123.3	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	867.3	869.8	889.8	884.7	-	721.4	722.4	739.5	732.0	-
Sporting goods and bicycle shops .....	5941	158.2	158.6	164.5	165.1	-	-	-	-	-	-
Book stores .....	5942	91.6	91.6	95.9	95.9	-	-	-	-	-	-
Stationery stores .....	5943	85.3	85.0	87.6	86.5	-	-	-	-	-	-
Jewelry stores .....	5944	158.9	159.0	160.9	160.1	-	-	-	-	-	-
Gift, novelty, and souvenir shops .....	5947	177.4	181.1	182.5	179.9	-	-	-	-	-	-
Sewing, needlework, and piece goods .....	5949	65.0	65.4	63.6	65.8	-	-	-	-	-	-
Nonstore retailers .....	596	271.5	265.4	252.3	248.9	-	240.8	234.5	222.6	218.8	-
Mail order houses .....	5961	132.8	130.5	123.5	120.6	-	-	-	-	-	-
Merchandising machine operators .....	5962	86.3	86.0	84.4	84.2	-	-	-	-	-	-
Fuel and ice dealers .....	598	119.1	117.0	123.8	122.4	-	99.7	97.6	104.0	102.3	-
Retail stores, nec .....	599	403.0	409.5	435.5	423.1	-	329.1	334.7	361.6	350.0	-
<b>Finance, insurance, and real estate<sup>2</sup></b> .....		<b>6,723</b>	<b>6,749</b>	<b>6,851</b>	<b>6,876</b>	<b>6,896</b>	<b>4,851</b>	<b>4,877</b>	<b>4,967</b>	<b>4,991</b>	<b>5,019</b>
Finance .....		3,306	3,302	3,356	3,358	3,354	-	-	-	-	-
Banking .....	60	1,754.2	1,752.9	1,793.6	1,798.0	-	1,247.3	1,244.8	1,273.6	1,280.6	-
Commercial and stock savings banks .....	602	1,560.9	1,557.4	1,576.2	1,578.2	-	1,106.8	1,102.8	1,117.5	1,122.4	-
State banks, Federal Reserve .....	6022	314.0	313.4	315.3	318.2	-	-	-	-	-	-
State banks, not Federal Reserve .....	6023,4	364.0	363.8	368.6	368.9	-	-	-	-	-	-
Mutual savings banks .....	603	80.2	80.4	79.1	79.2	-	-	-	-	-	-
Credit agencies other than banks .....	61	905.9	902.9	910.5	908.2	-	676.1	673.9	686.3	685.8	-
Savings and loan associations .....	612	403.2	402.3	396.2	393.9	-	304.6	304.2	301.6	300.0	-
Federal savings and loan associations .....	6122	233.3	232.7	229.4	228.4	-	-	-	-	-	-
State associations, insured .....	6123	164.7	164.4	161.9	160.5	-	-	-	-	-	-
Personal credit institutions .....	614	264.6	264.4	271.7	272.1	-	205.9	205.7	210.7	211.0	-
Business credit institutions .....	615	64.6	65.3	71.7	71.0	-	-	-	-	-	-
Mortgage bankers and brokers .....	616	151.0	148.5	149.6	149.9	-	-	-	-	-	-
Security, commodity brokers, and services .....	62	437.2	436.5	433.3	430.8	-	-	-	-	-	-
Security brokers and dealers .....	621	340.8	339.1	329.5	326.1	-	-	-	-	-	-
Holding and other investment offices .....	67	208.5	209.7	218.8	221.0	-	-	-	-	-	-
Insurance .....		2,115	2,117	2,153	2,160	2,166	-	-	-	-	-
Insurance carriers .....	63	1,459.8	1,459.7	1,488.9	1,494.9	-	969.9	969.0	997.9	1,001.3	-
Life insurance .....	631	576.4	575.4	579.3	581.0	-	344.2	344.1	357.2	356.7	-
Medical service and health insurance .....	632	229.8	231.0	242.6	244.5	-	186.2	186.8	194.3	196.7	-
Fire, marine, and casualty insurance .....	633	543.8	543.3	550.5	552.1	-	356.2	354.6	356.5	357.5	-
Title insurance .....	636	57.8	57.9	62.9	63.5	-	-	-	-	-	-
Insurance agents, brokers, and service .....	64	655.0	657.1	664.4	665.2	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonagricultural payrolls by detailed industry—Continued**

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>
<b>Finance, insurance, and real estate—Continued</b>											
Real estate, and combined real estate, insurance, etc ....		1,302	1,330	1,342	1,358	1,376	-	-	-	-	-
Real estate .....	65	1,292.6	1,320.9	1,332.8	1,348.6	-	-	-	-	-	
Real estate operators and lessors .....	651	562.7	575.5	582.9	594.2	-	-	-	-	-	
Real estate agents and managers .....	653	533.9	540.2	546.1	548.1	-	-	-	-	-	
Subdividers and developers .....	655	164.4	173.4	170.2	172.2	-	-	-	-	-	
Combined real estate, insurance, etc .....	66	9.0	9.0	8.8	8.9	-	-	-	-	-	
<b>Services .....</b>		<b>26,414</b>	<b>26,704</b>	<b>27,404</b>	<b>27,671</b>	<b>27,861</b>	<b>23,081</b>	<b>23,330</b>	<b>23,870</b>	<b>24,118</b>	<b>24,282</b>
Hotels and other lodging places .....	70	1,541.8	1,569.9	1,537.7	1,565.7	-	-	-	-	-	
Hotels, motels, and tourist courts .....	701	1,501.4	1,525.7	1,492.8	1,517.8	-	1,332.1	1,353.8	1,319.8	1,349.6	
Personal services .....	72	1,226.5	1,234.7	1,283.9	1,283.8	-	-	-	-	-	
Laundry, cleaning, and garment services .....	721	408.7	410.6	411.3	411.5	-	362.6	364.8	364.9	365.1	
Photographic studios, portrait .....	722	55.6	56.8	60.0	59.8	-	-	-	-	-	
Beauty shops .....	723	366.8	368.2	372.6	373.4	-	326.9	327.9	332.2	332.6	
Funeral service and crematories .....	726	80.6	81.4	83.6	84.1	-	-	-	-	-	
Business services .....	73	5,678.2	5,719.5	5,798.6	5,839.0	5,849.3	4,841.0	4,874.5	4,914.2	4,950.1	
Advertising .....	731	252.4	253.4	259.7	260.0	-	186.1	187.0	188.3	188.0	
Advertising agencies .....	7311	183.2	184.0	187.1	186.9	-	-	-	-	-	
Credit reporting and collection .....	732	93.6	93.9	96.1	96.7	-	-	-	-	-	
Mailing, reproduction, and stenographic .....	733	236.6	238.2	265.0	267.0	-	-	-	-	-	
Services to buildings .....	734	799.4	806.1	800.4	803.5	-	724.5	730.0	723.4	724.5	
Personnel supply services .....	736	1,325.9	1,338.0	1,286.4	1,312.9	-	-	-	-	-	
Employment agencies .....	7361	214.1	218.5	211.4	211.7	-	-	-	-	-	
Temporary help supply services .....	7362	1,008.1	1,016.3	972.0	997.7	-	-	-	-	-	
Computer and data processing services .....	737	743.8	751.4	805.7	810.5	-	577.5	584.0	624.1	629.0	
Computer programming and software .....	7372	339.6	342.8	377.8	380.4	-	-	-	-	-	
Data processing services .....	7374	280.7	283.7	297.9	299.2	-	-	-	-	-	
Miscellaneous business services .....	739	2,213.8	2,225.6	2,271.7	2,274.8	-	-	-	-	-	
Research development laboratories, nec .....	7391	216.3	217.1	220.1	219.2	-	-	-	-	-	
Management and public relations .....	7392	546.9	550.6	558.1	561.4	-	-	-	-	-	
Detective and protective services .....	7393	466.2	469.4	476.7	478.1	-	-	-	-	-	
Equipment rental and leasing .....	7394	265.6	270.8	274.8	276.4	-	-	-	-	-	
Photofinishing laboratories .....	7395	79.1	79.4	79.1	78.6	-	-	-	-	-	
Auto repair, services, and garages .....	75	883.2	891.8	925.6	934.2	-	728.5	734.3	762.4	769.4	
Automotive rentals, without drivers .....	751	177.9	179.7	193.6	197.7	-	-	-	-	-	
Automotive repair shops .....	753	507.8	515.6	534.2	538.1	-	416.1	421.5	436.0	439.5	
Miscellaneous repair services .....	76	352.3	355.6	364.3	367.3	-	285.8	288.4	298.7	301.1	
Electrical repair shops .....	762	116.7	117.9	129.8	131.0	-	-	-	-	-	
Motion pictures .....	78	253.0	262.4	265.9	270.9	-	214.7	222.0	223.3	227.9	
Motion picture production and services .....	781	134.9	139.5	146.3	149.3	-	111.3	114.4	118.3	121.3	
Motion picture theaters .....	783	100.7	105.6	102.2	104.0	-	-	-	-	-	
Amusement and recreation services .....	79	880.8	946.6	883.4	923.3	-	764.0	823.2	759.8	795.6	
Health services .....	80	7,480.1	7,512.8	7,964.6	8,026.3	8,064.0	6,651.9	6,675.7	7,072.4	7,127.7	
Offices of physicians .....	801	1,177.2	1,185.2	1,268.9	1,281.9	-	966.6	970.9	1,034.0	1,044.8	
Offices of dentists .....	802	505.4	507.9	524.6	526.3	-	441.4	443.6	460.1	461.8	
Nursing and personal care facilities .....	805	1,359.6	1,363.5	1,432.8	1,442.4	-	1,228.7	1,232.3	1,293.0	1,302.6	
Skilled nursing care facilities .....	8051	941.4	943.8	991.6	999.5	-	-	-	-	-	
Nursing and personal care, nec .....	8059	418.2	419.7	441.2	442.9	-	-	-	-	-	
Hospitals .....	806	3,431.2	3,441.6	3,612.9	3,634.1	-	3,139.4	3,146.4	3,304.6	3,324.3	
General medical and surgical hospitals .....	8062	3,173.6	3,182.7	3,346.2	3,365.3	-	-	-	-	-	
Psychiatric hospitals .....	8063	95.6	96.0	97.0	97.6	-	-	-	-	-	
Specialty hospitals, excluding psychiatric .....	8069	162.0	162.9	169.7	171.2	-	-	-	-	-	
Medical and dental laboratories .....	807	163.9	166.1	183.1	184.9	-	-	-	-	-	
Outpatient care facilities .....	808	300.5	304.5	355.3	360.5	-	-	-	-	-	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-2. Employees on nonagricultural payrolls by detailed industry—Continued**

(In thousands)

Industry	1972 SIC Code	All employees					Production workers <sup>1</sup>				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Apr. 1990 <sup>P</sup>
<b>Services—Continued</b>											
Legal services .....	81	878.5	880.4	920.2	925.7	-	732.6	733.6	760.2	765.9	-
Educational services .....	82	1,707.5	1,712.3	1,750.9	1,760.7	-	-	-	-	-	-
Elementary and secondary schools .....	821	409.4	409.2	414.4	416.2	-	-	-	-	-	-
Colleges and universities .....	822	1,063.9	1,064.7	1,089.5	1,097.1	-	-	-	-	-	-
Correspondence and vocational schools .....	824	105.3	105.3	105.9	104.4	-	-	-	-	-	-
Social services .....	83	1,705.9	1,722.2	1,826.2	1,849.5	-	-	-	-	-	-
Individual and family services .....	832	348.4	349.5	363.1	365.0	-	-	-	-	-	-
Job training and related services .....	833	237.7	240.2	242.3	246.4	-	-	-	-	-	-
Residential care .....	836	413.5	417.1	451.7	456.5	-	-	-	-	-	-
Museums, botanical and zoological gardens .....	84	50.3	52.5	48.9	51.5	-	-	-	-	-	-
Membership organizations .....	86	1,740.1	1,746.0	1,761.2	1,769.6	-	-	-	-	-	-
Business associations .....	861	100.3	99.6	99.8	101.0	-	-	-	-	-	-
Labor organizations .....	863	136.2	137.8	135.3	138.0	-	-	-	-	-	-
Civic and social associations .....	864	387.5	391.0	403.6	406.4	-	-	-	-	-	-
Miscellaneous services .....	89	1,458.1	1,458.6	1,508.3	1,511.3	-	1,168.6	1,168.6	1,191.0	1,194.0	-
Engineering and architectural services .....	891	737.6	742.5	761.0	762.4	-	609.8	613.5	626.5	627.2	-
Noncommercial research organizations .....	892	143.4	144.0	152.6	153.8	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	893	542.7	537.9	554.9	555.5	-	419.8	415.5	422.0	423.2	-
<b>Government .....</b>		<b>17,965</b>	<b>17,969</b>	<b>18,295</b>	<b>18,487</b>	<b>18,585</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Federal Government <sup>4</sup> .....		2,976	2,982	2,991	3,082	3,161	-	-	-	-	-
Executive, by agency <sup>4</sup> .....		2,917.6	2,922.8	2,931.4	-	-	-	-	-	-	-
Department of Defense .....		965.0	967.3	969.0	-	-	-	-	-	-	-
Postal Service <sup>5</sup> .....		841.7	839.9	820.1	-	-	-	-	-	-	-
Other executive agencies .....		1,110.9	1,115.6	1,142.3	-	-	-	-	-	-	-
Legislative .....		37.5	37.5	37.5	-	-	-	-	-	-	-
Judicial .....		21.2	21.3	21.8	-	-	-	-	-	-	-
Federal government, by industry:											
Manufacturing activities .....		123.8	123.6	123.9	122.8	-	-	-	-	-	-
Shipbuilding and repairing .....	3731	74.4	74.5	73.4	72.5	-	-	-	-	-	-
Transportation and public utilities, except Postal Service .....		37.5	38.4	39.9	40.5	-	-	-	-	-	-
Services .....		430.8	430.5	433.7	432.9	-	-	-	-	-	-
Hospitals .....	806	248.2	247.9	252.1	252.5	-	-	-	-	-	-
State government .....		4,213	4,222	4,289	4,316	4,324	-	-	-	-	-
Hospitals .....	806	447.7	448.4	450.7	452.3	-	-	-	-	-	-
Education .....	82	1,746.2	1,745.8	1,760.2	1,775.6	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions .....		1,494.0	1,502.1	1,548.7	1,556.5	-	-	-	-	-	-
Local government .....		10,776	10,765	11,015	11,089	11,100	-	-	-	-	-
Transportation and public utilities .....		491.3	491.6	491.2	496.3	-	-	-	-	-	-
Hospitals .....	806	638.6	640.4	672.2	675.8	-	-	-	-	-	-
Education .....	82	6,171.3	6,136.7	6,289.9	6,325.9	-	-	-	-	-	-
General administration, including executive, legislative, and judicial functions .....		3,139.0	3,158.7	3,226.1	3,247.5	-	-	-	-	-	-

<sup>1</sup> Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

<sup>2</sup> Data relate to line haul railroads with operating revenues of \$50,000,000 or more.

<sup>3</sup> Data for nonoffice sales agents are excluded from the nonsupervisory count for all series in this division.

<sup>4</sup> Prepared by the Office of Personnel Management. Data relate to

civilian employment only and exclude the Central Intelligence Agency and the National Security Agency.

<sup>5</sup> Includes rural mail carriers.

- Data not available.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
NOT SEASONALLY ADJUSTED**

**B-3. Women employees on nonagricultural payrolls by major industry and manufacturing group**

(In thousands)

Industry	Jan. 1989	Feb. 1989	Dec. 1989	Jan. 1990	Feb. 1990
<b>Total</b> .....	49,798	50,075	52,234	51,301	51,552
<b>Total private</b> .....	40,677	40,757	42,704	41,888	41,935
<b>Goods-producing</b> .....	7,078	7,091	7,141	7,038	7,046
<b>Mining</b> .....	96	96	98	98	99
<b>Construction</b> .....	553	554	585	577	576
<b>Manufacturing</b> .....	6,429	6,441	6,458	6,363	6,371
<b>Durable goods</b> .....	3,102	3,101	3,076	3,028	3,042
Lumber and wood products .....	124	124	123	121	120
Furniture and fixtures .....	167	167	165	164	163
Stone, clay, and glass products .....	121	122	123	120	120
Primary metal industries .....	107	107	106	104	105
Fabricated metal products .....	329	328	321	314	315
Machinery, except electrical .....	471	472	474	471	471
Electrical and electronic equipment .....	865	861	831	825	821
Transportation equipment .....	407	407	414	394	408
Instruments and related products .....	337	337	340	338	338
Miscellaneous manufacturing .....	174	177	181	178	180
<b>Nondurable goods</b> .....	3,327	3,340	3,382	3,335	3,329
Food and kindred products .....	512	511	544	524	517
Tobacco manufactures .....	19	19	18	18	17
Textile mill products .....	349	351	348	344	344
Apparel and other textile products .....	866	876	858	846	843
Paper and allied products .....	169	169	173	170	171
Printing and publishing .....	696	698	717	714	715
Chemicals and allied products .....	316	317	330	329	330
Petroleum and coal products .....	25	25	26	26	27
Rubber and misc. plastics products .....	292	292	289	285	284
Leather and leather products .....	83	83	80	79	79
<b>Service-producing</b> .....	42,720	42,984	45,093	44,263	44,506
<b>Transportation and public utilities</b> .....	1,621	1,624	1,699	1,687	1,694
<b>Wholesale trade</b> .....	1,843	1,851	1,934	1,916	1,912
<b>Retail trade</b> .....	10,148	10,009	10,909	10,337	10,151
<b>Finance, insurance, and real estate</b> .....	4,206	4,217	4,330	4,321	4,328
<b>Services</b> .....	15,781	15,965	16,691	16,589	16,804
<b>Government</b> .....	9,121	9,318	9,530	9,413	9,617
Federal .....	1,055	1,058	1,060	1,065	1,070
State .....	2,004	2,074	2,091	2,047	2,123
Local .....	6,062	6,186	6,379	6,301	6,424

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1988 forward are subject to revision.



**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

**B-4. Employees on nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted**

(In thousands)

Industry	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>P</sup>	Apr. <sup>P</sup>
<b>Total</b> .....	108,101	108,310	108,607	108,767	108,887	109,096	109,171	109,452	109,570	109,931	110,304	110,407	110,471
<b>Total private</b> .....	90,475	90,623	90,884	91,016	91,083	91,230	91,328	91,622	91,699	91,975	92,302	92,297	92,233
<b>Goods-producing</b> .....	25,671	25,672	25,648	25,669	25,694	25,614	25,603	25,609	25,532	25,518	25,686	25,604	25,489
<b>Mining</b> .....	720	722	715	706	729	730	731	737	739	745	749	749	755
Oil and gas extraction .....	400	401	402	404	405	408	409	414	416	417	422	421	425
<b>Construction</b> .....	5,279	5,283	5,283	5,314	5,321	5,325	5,335	5,355	5,304	5,418	5,485	5,433	5,334
General building contractors .....	1,377	1,388	1,384	1,391	1,403	1,396	1,386	1,391	1,388	1,425	1,436	1,415	1,389
<b>Manufacturing</b> .....	19,672	19,667	19,650	19,649	19,644	19,559	19,537	19,517	19,489	19,355	19,452	19,422	19,400
<b>Durable goods</b> .....	11,600	11,594	11,567	11,549	11,551	11,480	11,457	11,439	11,409	11,287	11,398	11,383	11,353
Lumber and wood products .....	772	771	769	767	763	759	764	765	765	770	765	765	760
Furniture and fixtures .....	537	534	534	536	529	528	525	525	523	522	522	523	522
Stone, clay, and glass products .....	606	604	603	602	601	597	600	602	600	601	602	598	594
Primary metal industries .....	788	787	787	785	786	777	776	772	771	764	767	765	765
Blast furnaces and basic steel products .....	275	276	276	277	276	273	271	269	270	270	269	267	268
Fabricated metal products .....	1,454	1,452	1,449	1,446	1,443	1,438	1,434	1,430	1,426	1,407	1,419	1,420	1,424
Machinery, except electrical .....	2,144	2,150	2,151	2,154	2,152	2,147	2,139	2,146	2,145	2,143	2,140	2,133	2,121
Electrical and electronic equipment .....	2,058	2,050	2,041	2,040	2,034	2,023	2,018	2,012	1,992	1,989	1,991	1,990	1,984
Transportation equipment .....	2,073	2,076	2,062	2,046	2,068	2,038	2,031	2,020	2,022	1,920	2,021	2,022	2,017
Motor vehicles and equipment .....	875	876	861	844	873	843	833	824	825	726	825	824	821
Instruments and related products .....	777	778	779	781	782	780	779	778	774	776	776	775	776
Miscellaneous manufacturing .....	391	392	392	392	393	393	391	389	391	395	395	392	390
<b>Nondurable goods</b> .....	8,072	8,073	8,083	8,100	8,093	8,079	8,080	8,078	8,080	8,068	8,054	8,039	8,047
Food and kindred products .....	1,657	1,656	1,663	1,678	1,667	1,674	1,676	1,673	1,676	1,676	1,674	1,669	1,669
Tobacco manufactures .....	54	53	52	53	52	51	51	51	51	51	51	50	48
Textile mill products .....	728	728	729	730	727	723	724	721	719	718	714	711	710
Apparel and other textile products .....	1,098	1,095	1,093	1,094	1,095	1,088	1,084	1,081	1,081	1,073	1,063	1,053	1,061
Paper and allied products .....	696	697	697	701	700	697	697	697	697	697	699	697	698
Printing and publishing .....	1,601	1,603	1,607	1,609	1,611	1,612	1,612	1,617	1,621	1,624	1,625	1,626	1,626
Chemicals and allied products .....	1,090	1,094	1,096	1,091	1,097	1,095	1,096	1,098	1,103	1,104	1,106	1,106	1,106
Petroleum and coal products .....	162	162	163	163	163	163	164	164	163	163	165	166	166
Rubber and misc. plastics products .....	843	843	841	841	841	837	837	835	832	826	821	825	828
Leather and leather products .....	143	142	142	140	140	139	139	138	137	136	136	136	135
<b>Service-producing</b> .....	82,430	82,638	82,959	83,098	83,193	83,482	83,568	83,843	84,038	84,413	84,618	84,803	84,982
<b>Transportation and public utilities</b> .....	5,682	5,700	5,716	5,736	5,618	5,709	5,729	5,753	5,834	5,850	5,865	5,864	5,866
Transportation .....	3,467	3,484	3,500	3,524	3,539	3,546	3,566	3,592	3,613	3,635	3,649	3,652	3,649
Communication and public utilities .....	2,215	2,216	2,216	2,212	2,079	2,163	2,163	2,161	2,221	2,215	2,216	2,212	2,217
<b>Wholesale trade</b> .....	6,206	6,222	6,230	6,237	6,256	6,264	6,278	6,300	6,311	6,332	6,332	6,343	6,345
Durable goods .....	3,676	3,685	3,693	3,700	3,708	3,717	3,721	3,737	3,746	3,754	3,759	3,762	3,765
Nondurable goods .....	2,530	2,537	2,537	2,537	2,548	2,547	2,557	2,563	2,565	2,578	2,573	2,581	2,580
<b>Retail trade</b> .....	19,489	19,528	19,551	19,586	19,621	19,632	19,679	19,744	19,718	19,822	19,794	19,778	19,802
General merchandise stores .....	2,492	2,491	2,493	2,482	2,484	2,486	2,478	2,492	2,470	2,491	2,460	2,451	2,447
Food stores .....	3,233	3,245	3,262	3,274	3,293	3,294	3,321	3,334	3,341	3,361	3,361	3,362	3,376
Automotive dealers and service stations .....	2,159	2,159	2,155	2,155	2,152	2,157	2,169	2,169	2,163	2,170	2,172	2,171	2,168
Eating and drinking places .....	6,335	6,348	6,362	6,370	6,385	6,397	6,403	6,417	6,432	6,459	6,467	6,480	6,494
<b>Finance, insurance, and real estate</b> .....	6,776	6,790	6,808	6,815	6,836	6,852	6,851	6,871	6,885	6,896	6,916	6,926	6,926
Finance .....	3,312	3,320	3,320	3,324	3,336	3,343	3,345	3,357	3,360	3,353	3,366	3,365	3,367
Insurance .....	2,119	2,123	2,129	2,131	2,137	2,137	2,134	2,138	2,144	2,152	2,155	2,162	2,168
Real estate .....	1,345	1,347	1,359	1,360	1,363	1,372	1,372	1,376	1,381	1,391	1,395	1,399	1,391
<b>Services</b> .....	26,651	26,711	26,931	26,973	27,058	27,159	27,188	27,345	27,419	27,557	27,709	27,782	27,805
Business services .....	5,760	5,776	5,799	5,786	5,800	5,836	5,827	5,852	5,852	5,885	5,899	5,904	5,891
Health services .....	7,528	7,570	7,616	7,648	7,695	7,739	7,778	7,839	7,884	7,934	7,981	8,034	8,080
<b>Government</b> .....	17,626	17,687	17,723	17,751	17,804	17,866	17,843	17,830	17,871	17,956	18,002	18,110	18,238
Federal .....	2,982	2,999	2,995	3,000	2,999	2,996	2,984	2,982	2,974	2,998	3,006	3,088	3,167
State .....	4,111	4,119	4,136	4,145	4,154	4,182	4,153	4,162	4,156	4,178	4,197	4,203	4,210
Local .....	10,533	10,569	10,592	10,606	10,651	10,688	10,706	10,686	10,741	10,780	10,799	10,819	10,861

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES  
SEASONALLY ADJUSTED**

**B-5. Women employees on nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted**

(In thousands)

Industry	1989											1990	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>Total</b> .....	50,302	50,414	50,515	50,670	50,894	51,023	51,124	51,247	51,212	51,375	51,476	51,643	51,771
<b>Total private</b> .....	41,239	41,340	41,418	41,530	41,717	41,794	41,832	41,950	41,957	42,125	42,191	42,312	42,409
<b>Goods-producing</b> .....	7,152	7,159	7,161	7,166	7,165	7,176	7,167	7,147	7,142	7,138	7,130	7,100	7,107
<b>Mining</b> .....	97	97	97	97	99	98	99	98	98	97	98	99	100
<b>Construction</b> .....	571	571	573	577	577	577	580	581	586	584	587	591	593
<b>Manufacturing</b> .....	6,484	6,491	6,491	6,492	6,489	6,501	6,488	6,468	6,458	6,457	6,445	6,410	6,414
<b>Durable goods</b> .....	3,111	3,109	3,111	3,108	3,103	3,103	3,099	3,084	3,072	3,071	3,064	3,036	3,052
Lumber and wood products .....	127	127	126	126	125	124	124	123	123	123	124	124	123
Furniture and fixtures .....	166	167	167	167	167	169	165	165	163	165	163	163	163
Stone, clay, and glass products .....	123	123	124	124	123	123	123	122	123	124	123	122	122
Primary metal industries .....	107	108	108	108	108	107	108	107	106	106	106	104	105
Fabricated metal products .....	329	328	327	327	326	327	325	324	322	321	319	314	316
Machinery, except electrical .....	471	471	471	472	474	475	475	474	472	473	473	470	470
Electrical and electronic equipment .....	863	860	859	853	850	847	846	840	835	832	825	824	823
Transportation equipment .....	407	408	409	410	409	407	410	406	407	408	411	393	408
Instruments and related products .....	337	337	338	339	338	341	340	340	340	339	338	338	338
Miscellaneous manufacturing .....	181	180	182	182	183	183	183	183	181	180	182	184	184
<b>Nondurable goods</b> .....	3,373	3,382	3,380	3,384	3,386	3,398	3,389	3,384	3,386	3,386	3,381	3,374	3,362
Food and kindred products .....	537	537	537	537	540	551	540	549	548	548	546	548	543
Tobacco manufactures .....	19	19	18	17	17	18	18	17	17	17	17	17	17
Textile mill products .....	352	354	353	353	353	353	352	350	352	350	348	347	346
Apparel and other textile products .....	874	877	875	873	871	870	869	863	860	860	858	852	841
Paper and allied products .....	171	171	171	171	172	173	174	172	173	172	172	172	174
Printing and publishing .....	698	700	702	706	708	709	710	708	709	713	715	715	716
Chemicals and allied products .....	319	321	322	325	325	324	326	326	327	328	331	331	333
Petroleum and coal products .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Rubber and misc. plastics products .....	292	293	292	292	291	292	292	291	291	290	287	285	285
Leather and leather products .....	85	84	84	84	83	82	82	82	82	81	80	80	80
<b>Service-producing</b> .....	43,150	43,255	43,354	43,504	43,729	43,847	43,957	44,100	44,070	44,237	44,346	44,543	44,664
<b>Transportation and public utilities</b> .....	1,630	1,629	1,628	1,635	1,645	1,652	1,585	1,633	1,642	1,651	1,689	1,694	1,703
<b>Wholesale trade</b> .....	1,862	1,866	1,876	1,888	1,893	1,899	1,905	1,907	1,907	1,919	1,922	1,928	1,924
<b>Retail trade</b> .....	10,318	10,336	10,337	10,373	10,387	10,407	10,444	10,438	10,428	10,458	10,429	10,473	10,454
<b>Finance, insurance, and real estate</b> .....	4,242	4,249	4,247	4,257	4,271	4,278	4,292	4,310	4,308	4,319	4,330	4,343	4,350
<b>Services</b> .....	16,035	16,101	16,169	16,211	16,356	16,382	16,439	16,515	16,530	16,640	16,691	16,774	16,871
<b>Government</b> .....	9,063	9,074	9,097	9,140	9,177	9,229	9,292	9,297	9,255	9,250	9,285	9,331	9,362
Federal .....	1,064	1,064	1,064	1,070	1,070	1,071	1,070	1,067	1,064	1,064	1,062	1,074	1,076
State .....	2,017	2,020	2,023	2,034	2,043	2,048	2,050	2,063	2,045	2,050	2,042	2,055	2,067
Local .....	5,982	5,990	6,010	6,036	6,064	6,110	6,172	6,167	6,146	6,136	6,181	6,202	6,219

<sup>1</sup> This series is not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA  
EMPLOYMENT  
SEASONALLY ADJUSTED**

**B-6. Production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted**

(In thousands)

Industry	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>P</sup>	Apr. <sup>P</sup>
<b>Total private</b> .....	73,204	73,315	73,555	73,670	73,741	73,837	73,897	74,174	74,224	74,472	74,700	74,716	74,671
<b>Goods-producing</b> .....	18,053	18,058	18,022	18,047	18,071	17,987	17,978	17,975	17,908	17,906	18,041	17,970	17,870
<b>Mining</b> .....	519	521	511	503	525	525	527	530	531	537	540	542	544
<b>Construction</b> .....	4,104	4,111	4,111	4,134	4,145	4,143	4,144	4,169	4,115	4,241	4,284	4,236	4,128
<b>Manufacturing</b> .....	13,430	13,426	13,400	13,410	13,401	13,319	13,307	13,276	13,262	13,128	13,217	13,192	13,198
<b>Durable goods</b> .....	7,744	7,735	7,706	7,697	7,696	7,632	7,615	7,594	7,579	7,456	7,564	7,559	7,551
Lumber and wood products .....	642	641	638	636	633	629	633	633	632	637	632	632	627
Furniture and fixtures .....	428	427	426	427	421	420	418	417	415	414	414	414	416
Stone, clay, and glass products .....	471	469	468	468	467	463	466	467	465	467	467	464	460
Primary metal industries .....	603	601	602	601	600	593	590	586	587	580	584	582	582
Blast furnaces and basic steel products .....	211	210	211	211	214	212	209	207	209	208	207	205	205
Fabricated metal products .....	1,080	1,079	1,074	1,073	1,069	1,062	1,061	1,056	1,055	1,035	1,046	1,046	1,052
Machinery, except electrical .....	1,298	1,302	1,303	1,309	1,304	1,299	1,293	1,300	1,299	1,300	1,299	1,292	1,290
Electrical and electronic equipment .....	1,213	1,205	1,198	1,199	1,195	1,189	1,184	1,181	1,170	1,169	1,170	1,175	1,175
Transportation equipment .....	1,297	1,297	1,284	1,270	1,291	1,262	1,255	1,243	1,244	1,136	1,236	1,242	1,238
Motor vehicles and equipment .....	680	681	667	650	677	648	638	629	631	531	630	630	627
Instruments and related products .....	428	430	429	431	430	431	431	429	427	429	428	427	429
Miscellaneous manufacturing .....	284	284	284	283	286	284	284	282	285	289	288	285	282
<b>Nondurable goods</b> .....	5,686	5,691	5,694	5,713	5,705	5,687	5,692	5,682	5,683	5,672	5,653	5,633	5,647
Food and kindred products .....	1,184	1,184	1,190	1,205	1,197	1,203	1,205	1,200	1,201	1,205	1,200	1,197	1,200
Tobacco manufactures .....	40	38	38	39	39	38	38	38	38	39	38	37	35
Textile mill products .....	630	630	630	631	627	623	625	622	621	618	614	610	611
Apparel and other textile products .....	927	925	922	922	922	917	914	913	912	903	895	883	891
Paper and allied products .....	524	525	525	528	528	524	526	526	526	526	527	525	528
Printing and publishing .....	889	891	892	893	894	892	892	896	900	903	905	904	902
Chemicals and allied products .....	609	614	616	614	617	614	617	617	619	618	617	615	616
Petroleum and coal products .....	105	106	107	107	107	107	107	107	106	106	108	109	109
Rubber and misc. plastics products .....	660	660	656	657	658	653	653	649	647	641	636	640	643
Leather and leather products .....	118	118	118	117	116	116	115	114	113	113	113	113	112
<b>Service-producing</b> .....	55,151	55,257	55,533	55,623	55,670	55,850	55,919	56,199	56,316	56,566	56,659	56,746	56,801
<b>Transportation and public utilities</b> .....	4,735	4,752	4,763	4,779	4,665	4,758	4,782	4,800	4,880	4,888	4,300	4,905	4,902
<b>Wholesale trade</b> .....	4,996	5,007	5,016	5,021	5,038	5,037	5,053	5,066	5,071	5,096	5,091	5,096	5,099
<b>Retail trade</b> .....	17,235	17,280	17,317	17,338	17,388	17,391	17,383	17,490	17,456	17,544	17,501	17,489	17,522
<b>Finance, insurance, and real estate</b> .....	4,902	4,918	4,933	4,944	4,954	4,969	4,972	4,985	4,995	5,016	5,032	5,041	5,044
<b>Services</b> .....	23,283	23,300	23,504	23,541	23,625	23,695	23,729	23,858	23,914	24,022	24,135	24,215	24,234

<sup>1</sup> Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA  
DIFFUSION INDEXES  
SEASONALLY ADJUSTED**

**B-7. Diffusion indexes of employment change, seasonally adjusted**

(Percent)

Time span	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Private nonagricultural payrolls, 349 industries<sup>1</sup></b>												
Over 1-month span:												
1988 .....	60.7	63.5	63.0	62.8	61.3	67.2	63.6	58.0	55.4	63.9	68.2	64.6
1989 .....	68.3	60.5	61.0	58.2	55.6	59.7	55.6	57.4	47.9	55.3	60.9	51.9
1990 .....	58.5	57.9	P 51.6	P 49.9								
Over 3-month span:												
1988 .....	64.8	65.6	69.5	70.2	71.1	71.9	71.2	64.2	65.3	70.1	73.4	74.6
1989 .....	71.6	70.1	64.5	61.9	61.6	60.7	61.6	53.4	54.6	55.7	57.2	60.2
1990 .....	58.2	P 58.6	P 53.2									
Over 6-month span:												
1988 .....	69.9	70.2	71.5	73.9	73.9	69.1	70.2	74.6	73.5	73.9	74.5	75.8
1989 .....	75.1	69.5	68.2	66.0	63.0	57.9	57.7	60.2	53.4	58.3	58.3	P 60.5
1990 .....	P 56.3											
Over 12-month span:												
1988 .....	76.2	76.1	74.8	74.6	75.8	74.9	78.1	75.5	75.5	74.8	74.9	74.1
1989 .....	73.2	73.6	69.6	67.6	66.6	62.6	63.6	63.2	P 60.7	P 58.0		
1990 .....												
<b>Manufacturing payrolls, 141 industries<sup>1</sup></b>												
Over 1-month span:												
1988 .....	58.5	56.0	55.0	59.9	58.5	61.7	59.6	51.1	49.3	62.8	64.9	58.5
1989 .....	62.4	53.5	53.2	49.6	46.8	48.6	49.6	45.4	34.8	52.1	48.2	44.7
1990 .....	45.4	49.3	P 44.0	P 46.5								
Over 3-month span:												
1988 .....	63.1	61.0	62.4	64.9	67.4	67.0	64.5	58.2	62.1	66.7	71.3	70.9
1989 .....	67.4	63.8	55.7	51.8	49.3	48.6	47.9	34.0	41.8	41.5	46.5	41.1
1990 .....	42.2	P 41.1	P 44.3									
Over 6-month span:												
1988 .....	66.3	66.3	67.7	69.5	66.7	64.2	66.0	70.9	68.8	69.9	71.6	74.1
1989 .....	69.5	58.5	55.7	52.8	48.9	39.0	40.1	41.8	34.4	37.9	40.8	P 44.0
1990 .....	P 37.9											
Over 12-month span:												
1988 .....	73.8	70.2	70.9	71.6	72.0	69.9	70.9	69.1	71.6	70.2	69.9	67.0
1989 .....	63.1	63.8	57.1	53.5	49.6	42.9	43.3	42.2	P 37.9	P 36.9		
1990 .....												

<sup>1</sup> Based on seasonally adjusted data for 1-, 3-, and 6-month spans and unadjusted data for the 12-month span. Data are centered within the span.

P = preliminary.

NOTE: Figures are the percent of industries with employment increasing plus one-half of the industries with unchanged employment, where 50 percent

indicates an equal balance between industries with increasing and decreasing employment. Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1988) and all seasonally adjusted data (beginning January 1985) are subject to revision.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry**

(In thousands)

State and area	Total			Mining			Construction		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Alabama</b> .....	1,582.9	1,586.5	1,583.4	11.6	11.7	11.7	74.2	76.4	76.6
Birmingham .....	407.0	412.4	413.5	5.5	5.5	5.4	22.0	22.6	22.8
Huntsville .....	129.6	132.6	133.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	4.9	5.0
Mobile .....	168.9	170.7	172.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.9	10.1	10.6
Montgomery .....	132.5	133.4	133.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.5	6.7	6.7
Tuscaloosa .....	62.5	62.0	64.7	2.6	2.6	2.6	3.2	3.9	4.0
<b>Alaska</b> .....	211.3	217.6	221.4	9.7	10.2	10.4	7.1	7.1	8.0
<b>Arizona</b> .....	1,464.6	1,498.1	1,505.4	12.1	12.7	12.7	85.4	80.5	81.3
Phoenix .....	988.1	988.9	992.3	.9	1.0	1.0	58.4	53.8	54.3
Tucson .....	253.7	255.0	256.1	2.0	2.2	2.2	15.1	14.3	14.2
<b>Arkansas</b> .....	878.5	895.7	903.7	4.0	4.0	4.1	29.0	29.9	31.0
Fayetteville-Springdale .....	52.3	54.3	54.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.5	1.5	1.5
Fort Smith .....	77.2	77.8	78.3	.9	1.0	1.0	2.3	2.5	2.5
Little Rock-North Little Rock .....	241.3	246.6	247.4	.4	.3	.4	8.8	9.2	9.4
Pine Bluff .....	33.5	33.4	33.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.4	1.5
<b>California</b> .....	12,441.9	12,646.4	12,732.6	40.8	41.2	41.8	616.2	634.8	642.8
Anaheim-Santa Ana .....	1,188.3	1,202.4	1,209.9	1.4	1.4	1.4	70.9	70.2	70.4
Bakersfield .....	166.6	168.4	169.0	13.7	13.8	14.1	10.2	10.7	10.7
Fresno .....	211.3	221.5	224.7	.6	.7	.7	11.7	13.6	13.9
Los Angeles-Long Beach .....	4,217.1	4,272.5	4,298.9	8.9	9.3	9.7	150.7	155.5	156.8
Modesto .....	110.2	113.2	114.7	.1	.1	.1	7.6	7.8	8.1
Oakland .....	872.5	898.4	905.1	3.9	4.2	4.2	49.5	52.3	52.7
Oxnard-Ventura .....	221.7	228.0	230.3	2.3	2.3	2.4	15.8	17.1	17.3
Riverside-San Bernardino .....	673.6	706.6	711.1	1.4	1.4	1.4	61.4	66.0	67.2
Sacramento .....	589.9	609.3	613.9	.6	.7	.7	32.7	35.2	35.7
San Diego .....	949.6	986.9	994.8	.8	.8	.8	62.0	63.0	63.7
San Francisco .....	946.7	960.8	965.4	.6	.6	.6	32.7	33.5	33.8
San Jose .....	826.2	826.9	830.1	.2	.2	.2	32.4	32.5	32.8
Santa Barbara-Santa Maria-Lompoc .....	149.6	150.5	151.3	1.4	1.4	1.4	6.7	6.9	7.0
Santa Rosa-Petaluma .....	130.8	139.4	140.1	.7	.7	.7	8.8	10.5	10.5
Stockton .....	148.6	150.6	151.4	.1	.1	.1	8.3	8.3	8.2
Vallejo-Fairfield-Napa .....	129.9	135.1	135.8	.5	.7	.7	8.8	9.8	10.1
<b>Colorado</b> .....	1,467.6	1,477.1	1,483.8	19.3	19.2	19.3	53.4	53.7	53.7
Boulder-Longmont .....	113.1	113.7	115.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.8	3.7
Denver .....	810.6	815.9	818.1	11.6	11.5	11.4	28.9	29.3	29.0
<b>Connecticut</b> .....	1,668.6	1,659.7	1,668.2	1.2	1.0	1.1	70.6	62.9	64.0
Bridgeport-Milford .....	198.1	195.0	195.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	7.9	7.6	7.7
Hartford .....	483.4	486.0	486.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18.4	17.9	17.4
New Britain .....	67.1	65.4	66.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.5	3.0	3.2
New Haven-Meriden .....	258.8	255.0	254.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.4	10.4	9.9
Stamford .....	124.2	122.5	123.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.9	4.5	4.6
Waterbury .....	87.0	87.6	87.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	3.9	3.6	3.9
<b>Delaware</b> .....	338.4	343.9	345.8	.1	.1	.1	20.2	18.2	19.2
Wilmington .....	291.7	297.4	298.4	.2	.2	.2	17.5	16.8	17.9
<b>District of Columbia</b> .....	676.4	683.5	688.6	.1	.1	.1	13.7	13.9	14.0
Washington MSA .....	2,203.7	2,231.0	2,243.9	1.0	1.1	1.1	143.2	138.3	139.3
<b>Florida</b> .....	5,290.2	5,447.4	5,502.9	9.2	9.6	9.5	342.6	338.6	340.1
Daytona Beach .....	124.4	124.1	125.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.1	8.0	7.9
Fort Lauderdale-Hollywood-Pompano Beach .....	511.6	521.8	528.1	.3	.3	.3	34.8	34.1	34.1
Fort Myers-Cape Coral .....	125.5	133.1	133.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	13.7	13.0	12.7
Gainesville .....	97.3	101.6	101.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.4	4.4	4.4
Jacksonville .....	411.6	423.5	424.2	.6	.7	.7	26.6	27.6	27.3
Lakeland-Winter Haven .....	156.9	158.9	159.8	4.1	4.0	4.0	9.1	8.8	8.5
Melbourne-Titusville-Palm Bay .....	159.8	163.6	164.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.4	9.1	9.2
Miami-Hialeah .....	880.5	894.7	899.5	.9	1.0	.9	40.2	40.6	40.6
Orlando .....	532.9	553.8	558.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	37.4	37.1	37.3
Pensacola .....	126.9	128.7	129.2	.4	.4	.4	7.8	8.3	8.3
Sarasota .....	113.9	117.8	118.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	10.4	10.2	10.2
Tallahassee .....	120.4	124.2	125.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.9	5.9	6.0
Tampa-St. Petersburg-Clearwater .....	867.3	885.3	890.8	.6	.7	.7	54.5	54.0	54.4
West Palm Beach-Boca Raton-Delray Beach .....	360.2	373.8	375.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	29.3	27.9	27.8

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Alabama</b> .....	382.3	375.8	371.7	80.8	79.7	79.8	346.0	345.2	344.8
Birmingham .....	57.7	57.0	56.4	32.3	32.2	32.4	99.6	100.8	101.2
Huntsville .....	32.7	33.1	33.1	2.9	2.9	2.9	24.5	25.0	25.1
Mobile .....	25.7	26.6	26.5	10.3	9.9	10.2	45.6	46.4	46.8
Montgomery .....	19.0	17.8	17.8	5.2	5.2	5.2	30.4	30.4	30.7
Tuscaloosa .....	10.2	8.2	10.7	2.0	2.1	2.2	12.7	12.8	12.7
<b>Alaska</b> .....	13.5	12.1	13.6	16.7	18.1	18.3	41.1	42.3	42.9
<b>Arizona</b> .....	188.0	187.5	187.5	75.8	78.9	80.1	366.7	376.1	376.8
Phoenix .....	139.2	139.4	139.3	52.7	55.5	55.7	248.5	253.9	253.8
Tucson .....	28.9	26.5	26.7	9.2	9.5	9.6	58.6	59.6	59.6
<b>Arkansas</b> .....	229.4	227.5	228.0	53.1	54.4	54.6	198.0	204.2	206.6
Fayetteville-Springdale .....	13.0	13.5	13.5	5.0	4.9	5.0	11.8	12.1	12.2
Fort Smith .....	25.5	24.2	24.5	4.3	4.4	4.4	16.3	16.4	16.5
Little Rock-North Little Rock .....	33.3	33.2	33.2	16.2	16.2	16.2	58.2	60.5	60.5
Pine Bluff .....	6.5	6.3	6.4	2.7	2.6	2.6	7.3	7.4	7.4
<b>California</b> .....	2,157.4	2,132.3	2,140.0	595.3	600.8	602.8	2,928.3	2,979.3	2,988.5
Anaheim-Santa Ana .....	258.3	257.4	258.1	34.3	35.0	35.3	298.7	304.7	305.6
Bakersfield .....	10.6	10.3	10.5	7.9	8.1	8.1	39.2	39.5	39.4
Fresno .....	22.0	23.6	24.0	11.8	12.0	12.0	53.8	56.6	57.4
Los Angeles-Long Beach .....	900.1	884.5	888.6	211.9	214.8	214.6	952.4	968.8	972.3
Modesto .....	22.1	21.8	22.4	4.4	4.7	4.7	28.5	29.6	29.6
Oakland .....	113.1	115.1	115.6	57.0	60.1	60.5	211.9	217.5	218.1
Oxnard-Ventura .....	30.8	30.6	30.8	11.6	11.2	11.3	55.2	56.7	57.1
Riverside-San Bernardino .....	87.3	89.4	88.6	32.5	33.1	33.4	166.1	173.0	173.7
Sacramento .....	42.3	43.7	44.3	26.0	26.6	26.6	138.8	142.7	143.0
San Diego .....	134.0	136.2	136.1	35.5	35.8	36.2	229.2	239.8	239.7
San Francisco .....	81.8	81.7	82.0	75.2	78.3	78.8	214.1	215.7	215.8
San Jose .....	269.0	265.7	265.3	21.5	22.1	22.2	168.6	168.6	168.5
Santa Barbara-Santa Maria-Lompoc .....	22.6	22.4	22.6	5.3	5.4	5.4	34.1	34.2	34.3
Santa Rosa-Petaluma .....	20.5	21.1	21.2	6.0	6.4	6.5	33.3	35.9	36.0
Stockton .....	23.0	23.0	23.2	8.5	8.3	8.4	34.4	35.2	35.1
Vallejo-Fairfield-Napa .....	12.0	12.4	12.4	4.4	4.9	4.9	31.4	33.3	33.3
<b>Colorado</b> .....	191.2	194.1	193.9	92.3	92.7	93.2	357.9	354.6	355.9
Boulder-Longmont .....	30.6	30.8	30.8	2.4	2.4	2.4	23.4	23.3	23.4
Denver .....	95.3	95.3	95.5	66.7	67.8	68.1	198.2	196.3	196.8
<b>Connecticut</b> .....	365.8	354.7	353.4	72.0	70.9	71.6	376.3	376.6	378.4
Bridgeport-Milford .....	54.1	51.8	51.6	8.5	8.7	8.6	44.8	44.8	44.7
Hartford .....	87.1	86.1	86.2	18.3	19.0	19.3	104.5	103.0	103.5
New Britain .....	20.3	19.3	19.5	3.3	3.2	3.6	13.7	14.2	14.2
New Haven-Meriden .....	46.6	45.6	45.7	16.8	16.0	16.1	59.3	57.7	57.2
Stamford .....	22.3	19.8	19.7	5.5	5.8	5.8	29.6	29.8	29.9
Waterbury .....	23.3	22.9	22.4	3.5	3.4	3.4	17.5	17.7	17.5
<b>Delaware</b> .....	73.0	71.7	71.9	15.1	14.7	14.6	72.2	73.8	73.8
Wilmington .....	62.9	61.1	61.1	15.7	15.9	15.9	59.9	62.4	62.3
<b>District of Columbia</b> .....	15.8	16.0	16.1	24.6	24.6	24.6	62.4	62.8	63.5
Washington MSA .....	88.8	89.1	89.3	109.4	110.8	110.9	428.7	436.2	437.4
<b>Florida</b> .....	543.9	545.8	543.5	259.2	274.6	276.8	1,449.1	1,480.0	1,496.2
Daytona Beach .....	12.4	12.4	12.3	3.9	4.1	4.1	37.0	36.6	37.5
Fort Lauderdale-Hollywood-Pompano Beach .....	46.2	46.3	46.3	23.1	23.9	24.2	152.0	155.8	157.2
Fort Myers-Cape Coral .....	6.2	6.3	6.3	5.1	5.6	5.6	37.8	40.7	41.4
Gainesville .....	5.7	5.5	5.5	1.8	1.9	1.9	21.8	22.1	22.0
Jacksonville .....	37.9	38.8	38.8	28.0	28.9	28.7	110.6	113.4	113.3
Lakeland-Winter Haven .....	24.1	23.6	23.7	6.7	7.1	7.2	43.8	44.4	44.9
Melbourne-Titusville-Palm Bay .....	29.8	30.1	30.0	4.2	4.1	4.1	37.9	39.2	39.6
Miami-Hialeah .....	93.7	91.1	91.5	64.9	71.7	71.7	241.1	244.3	245.3
Orlando .....	55.9	54.3	54.4	26.8	27.8	28.1	139.4	146.0	147.4
Pensacola .....	11.1	11.4	11.3	6.5	6.6	6.6	32.8	32.6	32.8
Sarasota .....	8.6	8.7	8.7	3.5	3.6	3.6	35.3	36.5	36.7
Tallahassee .....	4.8	5.0	5.0	3.0	3.0	3.1	26.0	27.0	27.2
Tampa-St. Petersburg-Clearwater .....	96.6	95.8	95.9	39.9	41.9	42.1	242.8	247.2	248.7
West Palm Beach-Boca Raton-Delray Beach .....	34.6	35.5	34.4	13.5	14.1	14.1	97.9	103.0	103.6

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Alabama</b> .....	70.9	71.0	70.9	301.6	306.0	306.7	315.5	320.7	321.2
Birmingham .....	28.5	28.5	28.5	97.6	99.8	100.7	63.8	66.0	66.1
Huntsville .....	3.7	3.8	3.8	30.9	31.9	32.2	30.1	31.0	31.4
Mobile .....	8.0	7.4	7.5	40.3	40.7	41.4	29.1	29.6	29.5
Montgomery .....	7.8	7.8	7.8	28.9	30.9	30.9	33.7	34.6	34.7
Tuscaloosa .....	2.1	2.1	2.1	9.3	9.6	9.7	20.4	20.7	20.7
<b>Alaska</b> .....	10.3	10.5	10.6	43.8	46.2	46.5	69.1	71.1	71.1
<b>Arizona</b> .....	92.3	93.6	93.9	389.4	405.8	408.1	254.9	263.0	265.0
Phoenix .....	74.0	75.3	75.6	264.3	275.2	276.7	130.1	134.8	135.9
Tucson .....	11.5	11.3	11.3	72.2	74.6	74.8	56.2	57.0	57.7
<b>Arkansas</b> .....	38.0	38.1	38.3	170.6	178.2	181.1	156.4	159.4	160.0
Fayetteville-Springdale .....	1.6	1.5	1.5	8.1	9.1	9.1	11.3	11.7	11.7
Fort Smith .....	2.9	2.9	2.9	16.9	18.1	18.2	8.1	8.3	8.3
Little Rock-North Little Rock .....	15.7	15.5	15.6	59.8	62.7	62.9	48.9	49.0	49.2
Pine Bluff .....	1.2	1.2	1.2	6.8	6.8	6.9	7.6	7.7	7.7
<b>California</b> .....	828.7	849.6	853.5	3,254.5	3,333.3	3,365.5	2,020.7	2,075.1	2,097.7
Anaheim-Santa Ana .....	95.4	96.2	96.2	305.5	310.5	314.3	123.8	127.0	128.1
Bakersfield .....	6.5	6.5	6.6	35.4	35.7	35.6	43.1	43.8	44.0
Fresno .....	12.1	12.3	12.3	49.7	53.3	53.7	49.6	49.4	50.7
Los Angeles-Long Beach .....	289.7	296.7	298.7	1,173.5	1,206.2	1,216.0	529.9	536.7	542.2
Modesto .....	5.1	5.2	5.2	23.2	24.3	24.5	19.2	19.7	20.1
Oakland .....	56.8	57.4	57.9	213.8	222.5	225.9	166.5	169.3	170.2
Oxnard-Ventura .....	11.3	11.5	11.7	52.9	55.4	55.9	41.8	43.2	43.8
Riverside-San Bernardino .....	28.5	29.5	29.7	159.8	167.5	168.9	136.6	146.7	148.2
Sacramento .....	37.8	38.6	39.0	132.3	137.7	139.0	179.4	184.1	185.6
San Diego .....	65.9	67.7	68.1	252.5	267.4	271.0	169.7	176.2	179.2
San Francisco .....	109.4	109.6	109.8	295.8	303.3	304.6	137.1	138.1	140.0
San Jose .....	32.0	32.3	32.5	214.9	217.1	219.5	87.6	88.4	89.1
Santa Barbara-Santa Maria-Lompoc .....	8.6	8.7	8.7	41.7	42.0	42.0	29.2	29.5	29.9
Santa Rosa-Petaluma .....	7.9	8.0	8.0	29.6	32.3	32.6	24.0	24.5	24.6
Stockton .....	9.4	9.5	9.5	32.4	32.7	33.0	32.5	33.5	33.9
Vallejo-Fairfield-Napa .....	4.9	5.0	5.0	28.9	30.4	30.7	39.0	38.6	38.7
<b>Colorado</b> .....	96.4	97.0	97.2	381.1	386.6	390.0	276.0	279.2	280.6
Boulder-Longmont .....	4.1	4.2	4.2	26.0	27.0	27.8	23.2	22.2	22.9
Denver .....	63.2	63.2	63.3	216.8	221.0	222.5	129.9	131.5	131.5
<b>Connecticut</b> .....	151.0	151.4	152.1	418.9	429.8	433.6	212.8	212.4	214.0
Bridgeport-Milford .....	12.5	12.3	12.3	50.4	49.5	50.4	19.9	20.3	20.4
Hartford .....	73.9	74.7	74.7	114.2	117.9	117.9	67.0	67.4	67.5
New Britain .....	3.6	3.3	3.3	14.7	15.6	15.6	7.0	6.8	6.8
New Haven-Meriden .....	16.4	16.9	17.1	74.3	76.4	76.2	33.0	32.0	32.3
Stamford .....	13.7	14.2	14.2	37.4	37.4	37.9	10.8	11.0	11.0
Waterbury .....	4.4	4.4	4.4	21.8	22.6	22.8	12.6	13.0	13.0
<b>Delaware</b> .....	29.6	30.6	30.4	80.4	84.9	85.8	47.8	49.9	50.0
Wilmington .....	26.3	27.3	27.2	71.2	73.8	73.9	38.0	39.9	39.9
<b>District of Columbia</b> .....	33.6	33.1	33.4	250.9	256.9	259.5	275.3	276.1	277.4
Washington MSA .....	128.7	130.7	131.5	722.6	733.7	741.3	581.3	591.1	593.1
<b>Florida</b> .....	369.3	375.0	376.8	1,502.9	1,579.9	1,606.1	814.0	843.9	853.9
Daytona Beach .....	6.0	5.8	5.8	36.6	36.3	37.0	20.4	20.9	21.1
Fort Lauderdale-Hollywood-Pompano Beach .....	40.3	41.2	41.2	147.3	152.1	153.1	67.6	68.1	71.7
Fort Myers-Cape Coral .....	9.0	9.5	9.5	35.3	38.4	38.6	18.3	19.5	19.7
Gainesville .....	4.5	4.5	4.5	24.6	25.8	25.8	34.4	37.3	37.7
Jacksonville .....	39.0	40.4	40.5	108.0	110.1	111.4	60.9	63.6	63.5
Lakeland-Winter Haven .....	8.6	9.2	9.2	38.8	39.7	40.1	21.7	22.1	22.2
Melbourne-Titusville-Palm Bay .....	5.8	5.7	5.7	49.7	51.9	52.1	22.9	23.4	23.4
Miami-Hialeah .....	71.7	71.9	72.0	250.5	252.8	254.7	117.5	121.3	122.8
Orlando .....	33.0	33.3	33.4	179.1	190.9	193.6	61.2	64.3	64.3
Pensacola .....	5.3	5.3	5.3	32.8	33.5	33.8	30.2	30.6	30.7
Sarasota .....	8.0	8.1	8.0	35.2	37.1	37.5	12.9	13.6	13.5
Tallahassee .....	5.1	5.2	5.1	25.5	26.1	26.4	49.9	51.7	51.9
Tampa-St. Petersburg-Clearwater .....	65.4	65.7	65.9	258.3	266.1	268.7	109.2	113.9	114.4
West Palm Beach-Boca Raton-Delray Beach .....	29.4	30.3	30.3	111.0	116.7	117.6	44.5	46.3	47.2

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Georgia</b> .....	2,906.3	2,992.5	3,002.2	8.8	8.8	8.7	143.3	145.7	144.9
Albany .....	47.5	48.5	48.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	2.2	2.0	2.0
Athens .....	67.3	69.5	69.2	.1	.1	.1	2.6	2.9	2.8
Atlanta .....	1,432.7	1,475.7	1,485.1	1.4	1.2	1.2	68.1	67.5	67.7
Augusta .....	165.4	171.3	170.9	.5	.5	.5	13.7	15.3	15.0
Columbus .....	92.7	93.1	92.9	.1	.1	.1	4.7	4.4	4.3
Macon-Warner Robins .....	122.9	125.3	125.9	.1	.1	.1	4.7	5.2	5.2
Savannah .....	106.0	109.6	109.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	7.0	8.0	8.0
<b>Hawaii</b> .....	501.5	516.8	518.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	27.5	30.2	29.8
Honolulu .....	393.2	405.1	406.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	21.2	23.3	22.8
<b>Idaho</b> .....	352.4	373.2	375.7	3.3	3.7	3.8	12.7	15.4	15.9
Boise City .....	96.1	101.9	103.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.8	5.9	6.1
<b>Illinois</b> .....	5,138.3	5,160.0	5,168.8	19.4	18.9	19.1	187.2	189.4	190.0
Aurora-Elgin .....	140.0	140.1	140.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.0	6.7	6.8
Bloomington-Normal .....	61.7	64.1	64.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.6	1.7
Champaign-Urbana-Rantoul .....	88.6	88.7	89.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.1	2.2
Chicago .....	3,129.1	3,151.3	3,166.1	1.9	2.1	2.1	115.2	115.1	119.2
Davenport-Rock Island-Moline .....	156.7	159.9	160.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.3	4.2	4.4
Decatur .....	53.1	53.1	53.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.7	2.7	2.7
Joliet .....	101.3	102.8	103.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.7	7.5	7.7
Kankakee .....	33.5	34.8	34.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.4	1.4
Lake County .....	203.0	206.2	207.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	9.7	9.2	9.6
Peoria .....	143.0	144.1	144.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.7	5.5	5.5
Rockford .....	133.2	134.3	134.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.8	4.7	4.7
Springfield .....	101.3	102.2	102.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.0	3.1
<b>Indiana</b> .....	2,434.6	2,463.7	2,477.1	7.6	7.3	7.8	99.6	105.1	107.0
Anderson .....	49.8	49.5	49.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.5	1.5
Bloomington .....	53.9	56.3	56.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	1.9	2.0
Elkhart-Goshen .....	105.9	104.6	105.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.0	3.3	3.3
Evansville .....	130.8	132.8	134.4	1.9	2.1	2.1	6.7	7.2	7.2
Fort Wayne .....	197.8	200.9	202.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	8.4	8.7	9.0
Gary-Hammond .....	233.2	238.6	239.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12.7	15.4	15.0
Indianapolis .....	639.6	653.6	656.9	.8	.8	.8	31.4	33.5	33.8
Kokomo .....	45.8	46.4	46.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.0	1.1	1.1
Lafayette-West Lafayette .....	68.1	72.0	72.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.6	2.7	2.7
Muncie .....	52.9	53.4	53.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.6	1.7
South Bend-Mishawaka .....	116.1	120.9	121.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.2	6.3	6.6
Terre Haute .....	55.5	55.9	56.5	.4	.4	.4	2.0	2.7	3.1
<b>Iowa</b> .....	1,176.1	1,204.2	1,206.9	1.9	1.6	1.9	31.9	35.8	36.8
Cedar Rapids .....	92.2	94.9	93.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.1	3.9	3.9
Des Moines .....	220.2	227.7	228.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.6	8.5	8.3
Dubuque .....	43.0	44.2	44.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.1	1.5	1.5
Iowa City .....	54.5	55.9	56.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.6	1.7
Sioux City .....	52.7	54.7	54.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.7	1.8	1.8
Waterloo-Cedar Falls .....	66.3	68.2	68.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	2.0	1.9
<b>Kansas</b> .....	1,054.7	1,075.7	1,085.0	9.3	9.5	9.4	36.5	38.1	39.3
Lawrence .....	35.2	36.2	36.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.2	1.2
Topeka .....	90.4	91.1	91.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.1	3.8	3.8
Wichita .....	237.2	237.8	238.4	1.6	1.8	1.8	8.5	8.2	8.3
<b>Kentucky</b> .....	1,408.0	1,447.6	1,451.8	33.9	33.3	33.4	59.7	63.7	64.8
Lexington-Fayette .....	192.5	200.8	201.4	.2	.2	.2	10.1	10.6	11.3
Louisville .....	457.2	474.2	475.8	.6	.5	.5	20.5	22.3	22.3
Owensboro .....	35.4	36.2	36.5	.5	.4	.4	2.0	2.0	1.9
<b>Louisiana</b> .....	1,513.7	1,516.1	1,518.2	54.1	54.7	54.5	79.0	80.8	80.9
Alexandria .....	45.6	44.7	45.0	.1	.1	.1	2.5	2.1	2.1
Baton Rouge .....	224.7	231.1	231.7	.8	.8	.8	24.8	26.2	26.4
Houma-Thibodaux .....	53.9	55.2	55.5	5.7	5.4	5.4	1.9	1.9	1.9
Lafayette .....	86.5	87.6	88.4	11.0	11.3	11.2	3.2	3.0	3.2
Lake Charles .....	61.2	62.7	63.0	1.0	1.1	1.1	3.9	4.0	4.3
Monroe .....	54.8	56.5	56.6	.4	.5	.5	2.2	2.8	2.8
New Orleans .....	521.7	528.0	527.7	14.3	14.5	14.6	21.5	22.0	21.9
Shreveport .....	128.6	131.0	130.9	2.8	3.0	2.9	4.9	5.5	5.7

See footnotes at end of table.



**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Georgia</b> .....	564.4	563.5	562.9	178.2	185.9	186.0	741.4	758.5	762.7
Albany .....	7.5	7.5	7.5	2.7	2.8	2.8	12.0	12.0	11.8
Athens .....	15.3	15.5	15.4	1.8	1.8	1.8	14.6	15.3	15.3
Atlanta .....	175.6	177.0	178.5	116.1	124.4	124.4	405.9	412.8	414.3
Augusta .....	37.4	38.2	38.2	4.5	4.5	4.5	35.5	36.6	36.6
Columbus .....	19.2	18.9	18.8	3.2	3.1	3.0	20.6	21.4	21.2
Macon-Warner Robins .....	18.6	18.5	18.6	5.0	5.3	5.4	28.1	28.4	28.5
Savannah .....	17.2	17.5	17.4	9.3	9.7	9.6	25.7	26.4	26.5
<b>Hawaii</b> .....	21.4	20.7	20.6	39.3	41.6	41.8	131.5	134.6	135.2
Honolulu .....	16.1	15.4	15.4	31.9	33.7	33.8	101.0	102.9	103.6
<b>Idaho</b> .....	57.8	61.6	60.9	18.4	19.0	19.0	89.8	96.0	96.6
Boise City .....	13.9	15.6	15.9	5.3	5.6	5.7	25.2	26.3	26.3
<b>Illinois</b> .....	981.4	979.0	980.4	302.9	305.4	305.1	1,263.2	1,265.1	1,265.4
Aurora-Elgin .....	39.2	39.3	39.0	3.4	3.4	3.4	35.8	34.9	35.2
Bloomington-Normal .....	6.8	7.9	7.9	2.8	2.7	2.7	13.8	14.2	14.1
Champaign-Urbana-Rantoul .....	8.3	7.9	7.9	2.3	2.2	2.2	19.5	18.9	18.8
Chicago .....	563.2	553.1	553.4	202.1	204.1	203.7	769.9	767.1	771.3
Davenport-Rock Island-Moline .....	32.4	33.3	33.4	7.0	7.2	7.2	44.9	46.0	46.2
Decatur .....	14.2	14.2	14.3	5.1	5.1	5.1	11.4	11.4	11.4
Joliet .....	19.2	18.3	18.3	8.6	8.7	8.7	23.5	24.0	23.9
Kankakee .....	5.5	5.5	5.4	2.1	2.1	2.1	8.2	9.1	9.0
Lake County .....	45.8	46.8	46.9	5.7	6.0	5.9	58.1	58.6	58.7
Peoria .....	33.5	33.6	33.7	7.0	7.0	7.1	34.4	35.1	35.2
Rockford .....	48.4	47.7	47.3	4.6	4.7	4.7	29.8	30.8	30.8
Springfield .....	4.2	3.9	4.1	4.7	4.7	4.8	22.6	22.7	22.7
<b>Indiana</b> .....	645.7	631.3	633.8	126.3	130.2	130.4	576.3	584.6	588.9
Anderson .....	17.2	16.6	16.8	1.3	1.3	1.3	11.7	11.5	11.5
Bloomington .....	9.7	9.3	9.3	1.6	1.7	1.7	11.7	11.9	11.4
Elkhart-Goshen .....	57.1	52.3	52.6	3.1	3.6	3.7	18.9	19.6	19.6
Evansville .....	31.2	30.5	30.8	6.9	7.0	7.0	34.1	35.0	35.1
Fort Wayne .....	54.4	52.6	52.6	13.0	13.1	13.0	48.7	49.1	49.1
Gary-Hammond .....	56.1	56.1	55.7	15.7	15.0	14.8	55.0	56.5	57.2
Indianapolis .....	108.1	106.7	106.5	39.9	41.5	41.7	165.9	171.3	172.2
Kokomo .....	19.4	18.9	19.0	1.4	1.6	1.6	9.9	10.2	10.1
Lafayette-West Lafayette .....	12.9	12.9	12.8	1.7	1.8	1.7	14.1	15.2	15.2
Muncie .....	11.3	11.3	11.4	2.7	3.2	3.2	12.7	12.7	12.8
South Bend-Mishawaka .....	22.9	22.6	22.5	5.0	5.0	5.1	30.6	31.5	31.5
Terre Haute .....	10.3	10.4	10.5	2.9	2.7	2.8	15.1	14.8	14.9
<b>Iowa</b> .....	230.0	234.1	230.8	54.8	55.3	55.4	296.3	303.7	306.6
Cedar Rapids .....	23.5	23.2	21.6	5.8	5.8	5.6	22.0	22.3	22.4
Des Moines .....	25.1	25.9	26.1	12.6	12.4	12.3	56.8	58.4	59.0
Dubuque .....	12.3	12.5	12.6	1.6	1.7	1.7	9.9	10.3	10.2
Iowa City .....	4.4	4.5	4.5	1.3	1.5	1.4	10.4	10.6	10.7
Sioux City .....	10.6	11.0	10.6	3.2	3.6	3.6	13.7	13.9	13.8
Waterloo-Cedar Falls .....	15.4	15.5	15.7	1.8	1.9	1.9	15.7	16.5	16.6
<b>Kansas</b> .....	184.6	184.5	185.9	65.4	65.8	66.2	260.8	265.8	267.9
Lawrence .....	4.6	4.6	4.7	1.0	1.0	1.0	7.6	8.3	8.3
Topeka .....	9.5	9.8	10.0	7.0	6.8	6.8	20.4	19.9	19.9
Wichita .....	63.4	64.7	64.6	11.2	11.3	11.3	54.0	53.2	53.4
<b>Kentucky</b> .....	281.8	283.2	283.5	74.8	75.3	74.9	337.6	347.9	348.2
Lexington-Fayette .....	32.6	33.6	33.6	8.7	9.0	8.9	43.3	44.1	44.1
Louisville .....	88.1	87.8	88.1	29.1	29.8	29.6	114.3	119.3	119.1
Owensboro .....	6.2	6.3	6.5	2.1	2.2	2.2	9.5	9.7	9.8
<b>Louisiana</b> .....	172.8	172.0	171.9	106.6	105.0	105.5	363.5	361.8	361.7
Alexandria .....	3.2	3.5	3.6	2.3	2.3	2.3	10.6	9.9	10.1
Baton Rouge .....	20.5	21.5	21.6	10.1	10.5	10.6	52.9	54.0	54.1
Houma-Thibodaux .....	4.4	4.8	4.8	6.0	6.3	6.4	13.7	14.1	14.2
Lafayette .....	7.6	7.9	8.2	6.1	6.3	6.2	23.6	24.0	24.2
Lake Charles .....	11.6	11.8	11.8	4.2	4.3	4.2	14.5	15.2	15.1
Monroe .....	7.6	7.9	7.7	3.0	2.8	3.0	14.0	14.2	14.1
New Orleans .....	43.9	42.7	42.5	42.7	43.1	43.3	134.4	135.9	135.6
Shreveport .....	17.4	17.7	17.7	8.4	8.4	8.4	31.6	32.3	32.2

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Georgia</b> .....	163.1	162.4	163.4	596.9	633.2	637.0	510.2	534.5	536.6
Albany .....	2.1	2.0	2.0	8.1	8.8	8.7	13.0	13.3	13.3
Athens .....	1.9	2.0	2.0	10.8	11.3	11.2	20.1	20.5	20.6
Atlanta .....	104.9	105.4	105.9	350.1	369.3	373.1	210.6	218.0	220.0
Augusta .....	5.5	5.5	5.4	33.3	35.0	34.9	35.0	35.7	35.9
Columbus .....	6.1	5.9	5.8	18.2	18.4	18.7	20.6	21.0	21.0
Macon-Warner Robins .....	7.1	7.4	7.4	24.1	25.0	25.2	35.2	35.3	35.4
Savannah .....	4.6	4.8	4.9	25.7	26.6	26.9	16.5	16.6	16.6
<b>Hawaii</b> .....	34.9	35.6	35.7	143.2	149.8	147.9	103.7	104.3	107.1
Honolulu .....	28.6	29.2	29.2	107.2	113.3	111.8	87.2	87.3	89.8
<b>Idaho</b> .....	18.9	19.3	19.6	74.2	77.3	77.7	77.3	80.9	82.2
Boise City .....	7.6	7.6	7.7	21.0	21.8	22.0	18.3	19.1	19.8
<b>Illinois</b> .....	368.5	371.3	371.2	1,264.6	1,281.2	1,282.0	751.1	749.7	755.6
Aurora-Elgin .....	7.4	7.3	7.3	31.2	31.6	31.7	16.0	16.9	17.3
Bloomington-Normal .....	10.5	11.0	11.1	13.2	13.0	13.0	13.2	13.7	13.5
Champaign-Urbana-Rantoul .....	3.0	3.1	3.1	17.1	17.6	17.8	36.2	36.9	37.5
Chicago .....	266.7	269.4	269.8	840.4	861.9	867.0	369.7	378.5	379.6
Davenport-Rock Island-Moline .....	7.7	7.7	7.7	33.7	34.4	34.5	26.7	27.1	27.1
Decatur .....	2.3	2.3	2.3	11.7	11.6	11.5	5.7	5.8	5.9
Joliet .....	3.5	3.5	3.5	22.5	23.3	23.4	17.3	17.5	17.5
Kankakee .....	1.3	1.2	1.2	8.5	8.8	8.8	6.6	6.7	6.8
Lake County .....	9.9	9.9	10.0	43.2	44.2	44.3	30.6	31.5	31.6
Peoria .....	7.2	7.1	7.1	39.1	39.4	39.5	16.1	16.4	16.4
Rockford .....	5.3	5.3	5.2	29.1	29.0	29.1	12.2	12.1	12.2
Springfield .....	7.9	8.2	8.3	25.6	26.0	26.1	32.9	33.7	33.7
<b>Indiana</b> .....	119.7	122.0	122.6	492.0	512.0	515.7	367.5	371.2	370.9
Anderson .....	1.6	1.5	1.5	10.6	11.1	11.1	6.1	6.1	6.2
Bloomington .....	1.9	2.0	2.0	9.2	10.7	10.6	18.2	18.9	19.1
Elkhart-Goshen .....	2.9	3.1	3.2	14.8	16.4	16.8	6.0	6.3	6.5
Evansville .....	5.3	5.4	5.5	32.2	33.8	34.7	12.4	12.0	12.0
Fort Wayne .....	12.3	13.0	13.1	42.8	46.5	47.6	18.3	17.9	17.9
Gary-Hammond .....	8.2	8.3	8.3	53.5	55.0	56.0	32.1	32.3	32.4
Indianapolis .....	48.8	48.8	48.9	150.1	154.5	156.4	94.6	96.6	96.6
Kokomo .....	1.3	1.5	1.5	7.0	7.5	7.7	5.7	5.7	5.8
Lafayette-West Lafayette .....	3.1	3.1	3.1	12.5	14.1	14.2	21.3	22.2	22.1
Muncie .....	1.6	1.7	1.7	10.9	11.1	11.0	11.9	11.8	11.7
South Bend-Mishawaka .....	6.1	6.3	6.3	34.7	36.7	37.1	11.5	12.6	12.7
Terre Haute .....	2.0	2.1	2.1	12.0	12.1	12.1	10.9	10.6	10.7
<b>Iowa</b> .....	67.2	69.5	69.8	273.5	280.2	281.4	220.5	224.0	224.2
Cedar Rapids .....	4.6	4.7	4.7	22.6	23.7	23.8	10.6	11.3	11.5
Des Moines .....	30.6	32.4	32.6	56.9	57.9	58.5	31.6	32.2	32.0
Dubuque .....	1.5	1.5	1.5	13.0	12.9	13.1	3.6	3.8	3.8
Iowa City .....	1.4	1.4	1.5	9.6	9.6	9.8	26.0	26.7	26.7
Sioux City .....	2.5	2.6	2.6	14.4	15.1	15.1	6.6	6.7	6.8
Waterloo-Cedar Falls .....	2.8	2.9	2.9	15.4	15.6	15.7	13.4	13.8	13.8
<b>Kansas</b> .....	57.6	58.8	59.0	225.8	234.0	237.7	214.7	219.2	219.6
Lawrence .....	1.4	1.5	1.5	7.1	7.2	7.2	12.1	12.4	12.3
Topeka .....	6.6	6.7	6.7	21.8	21.5	21.6	22.0	22.6	22.5
Wichita .....	10.9	10.8	10.9	58.7	59.0	59.3	28.9	28.8	28.8
<b>Kentucky</b> .....	59.2	60.7	60.9	306.8	322.0	323.7	254.2	261.5	262.4
Lexington-Fayette .....	9.5	9.3	9.3	45.7	49.4	49.3	42.4	44.6	44.7
Louisville .....	25.9	26.7	26.7	116.9	124.0	125.5	61.8	63.8	64.0
Owensboro .....	1.4	1.5	1.5	8.3	8.4	8.5	5.4	5.7	5.7
<b>Louisiana</b> .....	79.7	77.4	77.8	344.0	348.0	349.0	314.0	316.4	316.9
Alexandria .....	2.5	2.5	2.4	11.6	11.6	11.7	12.8	12.7	12.7
Baton Rouge .....	13.1	13.1	13.1	49.0	50.5	50.3	53.5	54.5	54.8
Houma-Thibodaux .....	2.1	2.1	2.1	9.5	9.9	10.0	10.6	10.7	10.7
Lafayette .....	3.3	3.2	3.2	19.1	19.3	19.4	12.6	12.6	12.8
Lake Charles .....	3.1	3.1	3.1	12.4	12.7	12.7	10.5	10.5	10.7
Monroe .....	4.2	4.2	4.2	12.1	12.9	13.0	11.3	11.2	11.3
New Orleans .....	32.9	33.3	33.3	145.2	149.2	149.4	86.8	87.3	87.1
Shreveport .....	6.4	6.2	6.1	31.2	32.4	32.4	25.9	25.5	25.5

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Maine</b> .....	526.0	529.1	529.5	0.1	0.1	0.1	29.1	27.9	28.1
Lewiston-Auburn .....	40.6	41.1	41.1	(?)	(?)	(?)	2.0	1.9	1.9
Portland .....	127.9	131.5	131.2	(?)	(?)	(?)	7.8	7.7	7.5
<b>Maryland</b> .....	2,128.1	2,136.4	2,150.3	1.6	1.6	1.6	158.2	153.1	157.1
Baltimore MSA .....	1,130.8	1,133.9	1,140.9	.3	.3	.3	73.4	74.0	75.3
Baltimore City .....	471.8	474.7	476.7	(?)	(?)	(?)	19.5	19.5	19.9
Suburban Maryland-D.C. ....	765.4	772.6	776.2	(?)	(?)	(?)	68.9	69.0	70.1
<b>Massachusetts</b> .....	3,102.3	3,048.3	3,048.8	1.5	1.2	1.3	118.9	104.9	103.8
Boston .....	1,741.5	1,713.4	1,719.0	.6	.6	.7	60.9	51.2	51.4
Brockton .....	73.9	72.8	73.0	(?)	(?)	(?)	3.1	2.8	2.9
Fall River .....	56.1	56.1	55.9	(?)	(?)	(?)	2.3	2.1	2.3
Fitchburg-Leominster .....	41.6	40.4	40.7	(?)	(?)	(?)	1.8	1.5	1.4
Lawrence-Haverhill .....	164.8	161.7	162.7	(?)	(?)	(?)	6.7	5.9	5.8
Lowell .....	108.6	101.7	102.1	(?)	(?)	(?)	4.7	4.0	4.2
New Bedford .....	67.9	66.4	66.2	(?)	(?)	(?)	2.8	2.5	2.6
Pittsfield .....	41.5	42.1	42.1	.1	.1	.1	1.9	1.5	1.4
Springfield .....	243.6	239.2	239.3	.1	.1	.1	8.6	6.8	6.8
Worcester .....	204.2	200.2	200.8	.2	.2	.2	8.5	7.3	7.3
<b>Michigan</b> .....	3,850.0	3,846.0	3,867.9	10.1	10.1	9.9	116.7	120.2	119.2
Ann Arbor .....	171.8	175.4	176.0	(?)	(?)	(?)	4.6	4.7	4.6
Battle Creek .....	59.5	59.9	60.0	(?)	(?)	(?)	1.7	2.0	2.0
Benton Harbor .....	65.8	65.4	66.0	(?)	(?)	(?)	1.5	1.5	1.5
Detroit .....	1,909.5	1,901.4	1,907.8	1.1	1.1	1.1	56.4	53.3	52.8
Flint .....	164.9	165.4	166.3	(?)	(?)	(?)	4.8	4.9	4.9
Grand Rapids .....	338.9	344.5	346.9	(?)	(?)	(?)	15.1	14.9	15.3
Jackson .....	53.5	53.3	53.7	(?)	(?)	(?)	1.6	1.8	1.9
Kalamazoo .....	110.9	111.6	112.2	(?)	(?)	(?)	3.8	3.7	3.8
Lansing-East Lansing .....	208.2	209.4	215.7	(?)	(?)	(?)	5.4	5.1	5.0
Muskegon .....	57.2	57.6	58.1	(?)	(?)	(?)	2.0	2.0	2.0
Saginaw-Bay City-Midland .....	155.8	157.8	157.6	(?)	(?)	(?)	6.9	7.7	7.4
<b>Minnesota</b> .....	2,038.8	2,088.3	2,094.8	6.9	7.4	7.6	63.6	66.0	67.8
Duluth .....	92.1	95.3	95.2	5.0	5.4	5.5	2.6	3.1	3.1
Minneapolis-St. Paul .....	1,325.5	1,352.4	1,357.2	(?)	(?)	(?)	43.3	44.5	45.7
Rochester .....	61.8	63.9	64.3	(?)	(?)	(?)	1.9	1.6	1.7
St. Cloud .....	75.4	80.9	81.1	(?)	(?)	(?)	2.8	3.5	3.6
<b>Mississippi</b> .....	909.7	923.6	927.8	5.9	6.3	6.2	33.3	35.0	35.5
Jackson .....	182.9	186.3	187.2	.7	.6	.6	7.6	7.0	7.2
<b>Missouri</b> .....	2,276.0	2,288.8	2,305.9	4.9	4.9	5.0	88.6	86.6	89.5
Kansas City .....	766.0	782.6	789.7	(?)	(?)	(?)	30.3	31.5	32.2
St. Louis .....	1,155.0	1,172.6	1,173.0	(?)	(?)	(?)	54.8	57.4	56.8
Springfield .....	115.1	118.5	119.3	(?)	(?)	(?)	4.3	4.1	4.3
<b>Montana</b> .....	279.4	287.7	290.2	6.0	5.9	6.1	6.8	6.8	7.3
<b>Nebraska</b> .....	696.2	713.1	717.5	1.3	1.3	1.4	21.7	22.5	23.3
Lincoln .....	117.7	121.3	122.7	(?)	(?)	(?)	3.7	4.0	4.2
Omaha .....	315.2	325.8	326.5	(?)	(?)	(?)	10.5	11.3	11.3
<b>Nevada</b> .....	562.1	602.9	609.2	12.5	14.4	14.6	41.5	47.1	48.4
Las Vegas .....	327.4	361.3	365.3	.2	.3	.3	28.2	34.0	34.8
Reno .....	137.2	142.4	143.5	1.4	1.5	1.5	6.7	6.8	7.0
<b>New Hampshire</b> .....	526.0	506.0	506.4	.4	.4	.4	28.3	21.3	21.4
Manchester .....	86.3	82.4	83.0	(?)	(?)	(?)	5.0	3.8	3.9
Nashua .....	93.9	89.7	89.4	(?)	(?)	(?)	3.9	2.6	2.5
Portsmouth-Dover-Rochester .....	110.5	104.5	104.4	(?)	(?)	(?)	4.6	3.5	3.5
<b>New Jersey</b> .....	3,675.1	3,664.3	3,686.5	2.5	2.4	2.4	156.1	145.2	148.3
Atlantic City .....	161.1	163.0	168.1	(?)	(?)	(?)	9.5	9.3	9.5
Bergen-Passaic .....	674.0	667.7	672.2	(?)	(?)	(?)	30.8	29.5	30.6
Camden .....	447.2	453.9	454.6	(?)	(?)	(?)	24.1	23.9	24.4
Jersey City .....	248.3	248.7	250.6	(?)	(?)	(?)	6.5	6.3	6.3
Middlesex-Somerset-Hunterdon .....	538.1	536.7	539.5	.6	.6	.6	21.6	20.6	21.3
Monmouth-Ocean .....	328.7	329.8	333.0	(?)	(?)	(?)	19.0	17.8	17.8
Newark .....	967.8	974.1	977.8	.8	.8	.8	36.7	35.7	36.2
Trenton .....	197.7	197.9	198.8	(?)	(?)	(?)	4.8	4.7	4.6
Vineland-Millville-Bridgeton .....	56.8	58.5	58.3	.4	.4	.4	2.1	2.3	2.4

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry--Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Maine</b> .....	105.5	104.6	104.2	21.8	22.0	22.0	129.7	130.8	131.3
Lewiston-Auburn .....	9.6	9.5	9.7	1.4	1.4	1.4	10.5	10.8	10.6
Portland .....	16.6	17.1	16.7	5.0	5.3	5.1	38.7	39.4	39.2
<b>Maryland</b> .....	209.2	204.9	205.0	100.1	100.6	101.0	529.8	534.3	536.0
Baltimore MSA .....	130.9	127.7	127.7	55.2	55.9	56.1	273.4	273.6	275.3
Baltimore City .....	44.5	44.1	44.4	27.8	28.0	28.1	93.4	92.3	92.1
Suburban Maryland-D.C. ....	37.8	38.2	38.0	32.1	31.4	31.5	196.5	198.7	198.9
<b>Massachusetts</b> .....	572.0	539.5	537.2	130.8	129.6	130.1	732.2	727.4	724.6
Boston .....	261.0	250.0	249.6	75.0	76.0	76.4	392.2	388.2	388.2
Brockton .....	10.2	9.4	9.5	4.7	4.5	4.6	23.7	23.9	23.6
Fall River .....	15.8	15.5	14.9	1.9	1.9	1.9	14.9	14.6	14.7
Fitchburg-Leominster .....	12.3	12.2	12.2	1.6	1.3	1.4	10.3	9.9	10.0
Lawrence-Haverhill .....	49.3	45.7	45.8	6.8	6.3	6.4	36.5	36.1	36.4
Lowell .....	36.6	32.2	31.9	5.0	4.7	4.9	22.9	21.7	22.0
New Bedford .....	18.3	17.4	17.2	2.9	2.8	2.8	16.8	16.3	16.3
Pittsfield .....	10.6	10.7	10.8	1.2	1.4	1.4	9.8	10.0	9.9
Springfield .....	49.5	47.0	46.7	10.0	10.0	10.0	58.4	59.3	59.3
Worcester .....	44.8	43.8	43.8	9.6	9.1	9.1	49.2	50.1	50.4
<b>Michigan</b> .....	968.9	928.1	938.8	149.8	148.4	149.3	892.6	897.8	900.6
Ann Arbor .....	36.5	38.3	38.3	4.7	4.9	4.8	30.0	30.2	30.6
Battle Creek .....	16.8	16.3	16.3	1.6	1.6	1.6	11.6	12.1	11.9
Benton Harbor .....	22.0	20.7	20.8	2.4	2.5	2.5	14.0	13.9	14.4
Detroit .....	462.3	441.8	443.2	85.9	85.5	86.3	453.0	459.1	459.6
Flint .....	53.1	51.5	52.0	4.2	4.1	4.0	40.1	40.9	40.7
Grand Rapids .....	101.8	100.7	101.5	11.2	11.3	11.4	87.7	91.0	91.6
Jackson .....	13.6	12.6	12.7	4.1	3.9	3.9	12.6	12.6	12.7
Kalamazoo .....	30.9	29.8	30.1	3.1	3.3	3.3	24.9	25.5	25.5
Lansing-East Lansing .....	30.8	28.2	32.5	5.4	5.7	5.7	45.5	45.3	45.9
Muskegon .....	17.2	16.8	17.0	2.1	2.2	2.2	12.8	13.2	13.2
Saginaw-Bay City-Midland .....	44.3	43.6	43.6	6.2	6.1	6.0	36.9	37.6	37.8
<b>Minnesota</b> .....	393.9	393.5	394.5	102.6	107.3	107.5	498.4	507.3	509.4
Duluth .....	8.0	8.2	8.2	5.3	5.7	5.8	22.9	23.7	23.6
Minneapolis-St. Paul .....	263.2	260.4	260.9	72.2	76.5	76.7	321.1	326.1	327.0
Rochester .....	11.4	11.8	11.8	1.8	1.9	1.9	12.6	12.5	12.6
St. Cloud .....	14.1	14.8	14.9	3.6	3.8	3.9	23.0	26.1	26.0
<b>Mississippi</b> .....	241.0	240.6	240.4	44.7	45.7	46.2	193.7	195.7	197.1
Jackson .....	20.9	21.4	21.5	13.7	14.4	14.4	43.1	43.3	43.2
<b>Missouri</b> .....	434.5	435.8	432.7	149.2	149.5	149.8	554.4	557.6	562.1
Kansas City .....	109.8	109.5	110.7	62.7	64.0	64.3	198.9	205.8	207.3
St. Louis .....	220.1	222.4	218.5	76.0	77.4	77.8	282.0	287.1	287.7
Springfield .....	21.0	21.2	20.9	6.9	7.4	7.5	32.6	33.6	33.7
<b>Montana</b> .....	20.9	21.5	21.4	19.6	19.4	19.2	73.1	77.4	78.1
<b>Nebraska</b> .....	93.6	95.8	95.6	45.0	46.7	46.8	180.5	182.9	183.9
Lincoln .....	14.6	14.3	14.2	6.4	6.6	6.6	26.3	27.2	27.4
Omaha .....	35.0	36.1	35.8	23.9	25.1	25.1	81.3	83.5	83.4
<b>Nevada</b> .....	25.2	25.7	26.1	29.8	31.1	31.4	115.0	123.0	124.2
Las Vegas .....	9.7	10.3	10.4	17.0	18.7	18.9	69.5	76.4	77.0
Reno .....	8.5	8.5	8.5	9.6	9.1	9.2	31.3	32.9	33.2
<b>New Hampshire</b> .....	116.3	108.8	108.3	18.3	18.1	18.2	134.9	128.5	128.3
Manchester .....	12.3	11.2	11.2	4.7	5.0	5.0	23.7	21.8	21.9
Nashua .....	34.6	32.8	32.9	3.1	3.1	3.0	23.5	22.1	21.9
Portsmouth-Dover-Rochester .....	21.5	19.5	19.0	2.6	2.5	2.5	27.8	25.7	25.8
<b>New Jersey</b> .....	656.3	640.8	639.8	242.3	241.0	242.5	878.4	873.3	875.3
Atlantic City .....	8.5	8.6	8.6	6.4	6.4	6.4	31.8	32.3	32.6
Bergen-Passaic .....	151.9	147.0	147.1	29.6	29.5	29.4	193.5	191.8	192.3
Camden .....	72.3	70.8	69.7	19.6	20.0	20.1	121.7	124.8	124.7
Jersey City .....	42.1	41.5	42.2	33.4	33.5	33.8	61.7	60.4	60.9
Middlesex-Somerset-Hunterdon .....	115.2	112.4	112.5	41.8	41.8	41.9	131.5	129.7	130.3
Monmouth-Ocean .....	28.5	27.8	27.9	17.0	17.4	17.5	88.0	88.1	88.7
Monmouth-Ocean .....	176.5	172.7	171.5	80.0	82.3	82.6	196.6	193.6	194.8
Newark .....	29.2	28.5	28.6	6.7	6.7	6.7	31.5	31.3	31.2
Trenton .....	16.1	16.6	16.2	2.1	2.2	2.2	11.2	10.9	10.9
Vineland-Millville-Bridgeton .....									

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Maine</b> .....	25.1	24.9	25.0	117.8	120.7	120.7	96.9	98.1	98.1
Lewiston-Auburn .....	2.3	2.3	2.3	10.7	10.9	10.9	4.1	4.3	4.3
Portland .....	11.8	11.3	11.3	31.6	34.6	34.8	16.4	16.1	16.6
<b>Maryland</b> .....	129.5	131.4	131.6	584.4	592.1	596.7	415.3	418.4	421.3
Baltimore MSA .....	78.2	76.4	76.7	310.2	313.7	316.0	211.2	212.3	213.5
Baltimore City .....	45.6	45.6	45.5	148.8	151.9	153.4	92.2	93.3	93.3
Suburban Maryland-D.C. ....	44.7	46.2	45.9	223.5	225.0	227.0	161.9	164.1	164.8
<b>Massachusetts</b> .....	216.6	216.7	217.3	918.4	923.1	927.7	411.9	405.9	406.8
Boston .....	147.8	147.0	147.2	596.3	596.3	601.2	207.7	204.1	204.3
Brockton .....	3.5	3.6	3.6	16.6	16.1	16.3	12.1	12.5	12.5
Fall River .....	3.4	3.5	3.5	10.8	11.3	11.3	7.0	7.2	7.3
Fitchburg-Leominster .....	1.6	1.5	1.5	9.0	9.1	9.2	5.0	4.9	5.0
Lawrence-Haverhill .....	6.3	6.3	6.3	36.6	38.5	39.1	22.6	22.9	22.9
Lowell .....	3.8	3.6	3.5	21.9	22.1	22.3	13.7	13.4	13.3
New Bedford .....	2.5	2.5	2.4	14.5	15.0	14.9	10.1	9.9	10.0
Pittsfield .....	1.9	2.0	2.0	11.2	11.8	11.8	4.8	4.7	4.8
Springfield .....	15.7	15.2	15.2	61.6	61.2	61.5	39.7	39.6	39.7
Worcester .....	14.0	13.5	13.6	52.7	51.6	51.9	25.2	24.6	24.5
<b>Michigan</b> .....	165.9	189.9	190.7	882.9	898.7	905.5	643.2	653.0	653.8
Ann Arbor .....	4.7	4.7	4.7	35.9	36.5	36.9	55.3	56.1	56.1
Battle Creek .....	3.2	3.3	3.3	12.7	13.0	13.1	11.8	11.7	11.8
Benton Harbor .....	2.6	2.7	2.7	14.4	15.4	15.2	8.8	8.8	8.9
Detroit .....	109.7	112.2	112.4	495.0	503.5	506.6	246.1	244.8	245.7
Flint .....	5.8	5.9	6.0	32.8	34.3	34.7	24.2	23.8	24.0
Grand Rapids .....	15.4	15.7	15.8	73.4	75.7	75.8	34.3	35.1	35.6
Jackson .....	1.7	1.7	1.7	10.0	10.2	10.3	9.9	10.5	10.5
Kalamazoo .....	5.0	5.2	5.2	24.7	25.1	25.3	18.6	19.0	19.0
Lansing-East Lansing .....	12.4	12.4	12.6	40.5	40.8	42.0	68.3	71.9	72.0
Muskegon .....	1.4	1.5	1.5	11.9	12.0	12.1	9.7	10.0	10.1
Saginaw-Bay City-Midland .....	6.2	5.9	5.9	33.9	35.7	35.9	21.4	21.1	21.1
<b>Minnesota</b> .....	118.8	121.3	121.6	520.2	544.3	548.3	334.4	341.2	338.0
Duluth .....	3.0	3.3	3.2	23.0	23.7	23.7	22.3	22.2	22.1
Minneapolis-St. Paul .....	92.6	93.4	93.6	349.9	363.9	366.7	182.7	187.1	186.1
Rochester .....	1.5	1.6	1.7	26.1	27.9	28.0	6.5	6.6	6.6
St. Cloud .....	2.3	2.4	2.4	15.6	16.0	16.1	14.0	14.3	14.2
<b>Mississippi</b> .....	38.5	38.5	38.5	150.0	155.1	156.7	202.6	206.7	207.1
Jackson .....	14.6	14.6	14.6	40.9	42.3	42.6	41.5	42.8	43.0
<b>Missouri</b> .....	134.3	133.5	134.2	544.9	547.5	557.2	365.2	373.4	375.4
Kansas City .....	58.6	59.3	59.3	186.2	191.3	193.9	119.4	121.2	122.0
St. Louis .....	74.2	73.7	73.8	303.3	308.4	311.7	144.5	146.2	146.7
Springfield .....	5.3	5.6	5.6	30.0	31.1	31.5	15.0	15.5	15.8
<b>Montana</b> .....	12.9	13.2	13.5	69.3	73.4	73.5	70.8	70.1	71.1
<b>Nebraska</b> .....	47.8	48.4	48.4	165.6	170.6	172.0	140.7	144.9	146.1
Lincoln .....	8.5	8.4	8.5	26.9	26.3	28.9	31.3	32.5	32.9
Omaha .....	28.3	29.3	29.3	89.4	92.5	93.4	46.8	48.0	48.2
<b>Nevada</b> .....	25.0	26.3	26.5	241.7	260.6	262.7	71.4	74.7	75.3
Las Vegas .....	16.0	16.7	16.8	150.4	166.6	168.3	36.4	38.3	38.8
Reno .....	6.4	6.8	6.9	55.6	58.5	59.0	17.7	18.3	18.2
<b>New Hampshire</b> .....	32.1	31.9	32.0	123.0	124.2	123.8	72.7	72.8	74.0
Manchester .....	8.4	8.7	9.0	23.4	23.0	23.1	8.8	8.9	8.9
Nashua .....	3.4	3.1	3.0	17.7	17.9	18.1	7.7	8.1	8.0
Portsmouth-Dover-Rochester .....	7.1	7.1	7.1	20.9	21.0	20.9	26.0	25.2	25.6
<b>New Jersey</b> .....	240.5	240.1	240.4	834.3	952.1	966.0	564.7	569.4	571.8
Atlantic City .....	6.7	6.8	6.7	72.2	73.3	78.0	26.0	26.3	26.3
Bergen-Passaic .....	38.9	38.9	38.9	160.4	161.4	163.7	68.9	69.6	70.2
Camden .....	24.6	24.8	24.7	110.0	113.3	114.6	74.9	76.3	76.4
Jersey City .....	16.4	16.0	16.1	48.6	50.6	50.9	39.6	40.4	40.4
Middlesex-Somerset-Hunterdon .....	38.7	38.3	37.8	114.1	116.8	117.9	74.6	76.5	77.2
Monmouth-Ocean .....	19.3	19.7	19.7	93.0	94.4	96.2	63.9	64.6	65.2
Newark .....	79.5	79.6	80.0	257.7	266.8	268.8	140.0	142.6	143.1
Trenton .....	10.4	10.4	10.5	58.6	59.6	59.9	56.5	56.7	57.3
Vineland-Millville-Bridgeton .....	3.6	3.9	3.9	9.7	10.4	10.4	11.6	11.8	11.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>
<b>New Mexico</b> .....	555.0	561.7	565.6	13.9	14.5	14.6	29.6	27.0	27.8
Albuquerque .....	240.2	240.8	242.4	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	13.4	12.4	12.6
Las Cruces .....	42.5	44.1	44.4	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	2.4	2.2	2.4
Santa Fe .....	55.4	56.8	57.4	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	2.6	2.5	2.5
<b>New York</b> .....	8,195.5	8,210.5	8,261.1	5.2	5.0	5.2	308.0	295.3	300.8
Albany-Schenectady-Troy .....	421.8	427.8	430.5	.4	.4	.5	17.9	17.7	18.3
Binghamton .....	120.9	119.4	119.8	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	4.6	4.6	4.7
Buffalo .....	452.4	458.2	461.9	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	15.5	14.2	14.7
Elmira .....	41.0	41.5	41.6	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	1.5	1.4	1.4
Glens Falls .....	( <sup>d</sup> )	( <sup>d</sup> )	( <sup>d</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>e</sup> )	( <sup>e</sup> )	( <sup>e</sup> )
Nassau-Suffolk .....	1,134.2	1,127.9	1,137.9	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	55.8	51.2	53.5
New York PMSA .....	4,132.8	4,128.3	4,154.4	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	146.4	141.2	144.3
New York City .....	3,608.9	3,601.1	3,623.0	.4	.3	.3	116.7	112.4	114.2
Niagara Falls .....	82.0	84.0	84.3	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	3.0	3.0	3.0
Orange County .....	106.2	106.8	107.1	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	4.8	4.4	4.4
Poughkeepsie .....	120.0	120.3	120.4	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	6.1	5.8	5.9
Rochester .....	483.6	483.5	484.6	.6	.6	.6	16.2	17.2	17.2
Rockland County .....	100.8	101.1	101.8	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	4.9	4.5	4.7
Syracuse .....	305.9	311.3	312.1	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	13.5	14.6	14.8
Utica-Rome .....	124.5	126.5	126.7	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	3.1	3.0	3.1
Westchester County .....	404.4	407.6	410.9	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	22.8	22.3	23.3
<b>North Carolina</b> .....	3,034.2	3,087.0	3,094.6	4.9	4.9	4.9	156.5	159.0	159.8
Asheville .....	82.6	86.5	87.2	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	4.3	4.4	4.4
Charlotte-Gastonia-Rock Hill .....	609.6	625.1	628.2	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	35.4	35.9	36.1
Greensboro-Winston-Salem-High Point .....	487.8	486.3	486.7	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	24.0	24.3	24.5
Raleigh-Durham .....	415.2	427.9	428.8	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	21.0	21.2	21.5
<b>North Dakota</b> .....	253.8	258.4	259.9	3.6	3.7	3.7	7.1	7.2	7.5
Bismarck .....	37.9	38.6	39.1	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	1.3	1.3	1.4
Fargo-Moorhead .....	73.5	75.5	75.9	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	2.6	3.0	3.0
Grand Forks .....	30.8	31.7	31.8	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	1.0	1.0	1.0
<b>Ohio</b> .....	4,746.9	4,790.2	4,834.1	17.7	17.3	17.4	169.0	166.2	174.7
Akron .....	278.8	282.7	285.4	.5	.6	.6	8.6	8.4	8.6
Canton .....	162.2	162.7	163.1	.7	.7	.7	6.2	5.9	6.3
Cincinnati .....	713.1	727.9	735.4	.4	.4	.4	31.7	31.1	32.8
Cleveland .....	920.7	928.4	936.1	.8	.9	.9	28.7	28.3	29.3
Columbus .....	692.8	701.8	708.5	.8	.8	.8	27.2	25.8	26.9
Dayton-Springfield .....	446.3	447.1	451.8	.4	.4	.4	16.5	15.3	16.2
Toledo .....	290.7	289.9	292.3	.2	.2	.2	10.6	10.2	10.7
Youngstown-Warren .....	195.6	196.2	198.3	.4	.5	.5	6.6	6.3	6.6
<b>Oklahoma</b> .....	1,151.3	1,156.6	1,165.8	42.5	43.8	43.4	33.4	34.7	35.2
Enid .....	21.3	21.4	21.6	.9	.9	.9	.6	.6	.6
Lawton .....	33.9	34.5	34.9	.2	.3	.2	1.0	.8	.9
Oklahoma City .....	420.4	427.1	430.4	11.0	10.7	10.8	10.9	11.7	12.0
Tulsa .....	300.7	309.1	311.0	12.2	12.2	12.3	10.0	10.9	11.0
<b>Oregon</b> .....	1,176.4	1,210.0	1,225.0	1.2	1.2	1.3	40.8	41.3	45.6
Eugene-Springfield .....	112.7	116.6	117.7	.2	.2	.2	3.5	3.5	3.7
Portland .....	602.3	620.6	626.3	.4	.4	.4	23.5	24.1	26.2
Salem .....	100.8	102.7	103.7	.1	.1	.1	3.5	3.8	3.8
<b>Pennsylvania</b> .....	5,072.9	5,081.1	5,106.4	27.2	26.9	27.2	211.8	212.0	216.8
Allentown-Bethlehem .....	280.3	280.4	281.2	.6	.5	.5	12.9	12.3	12.4
Altoona .....	51.1	51.8	51.9	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	2.3	2.2	2.2
Beaver County .....	48.9	48.8	49.0	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	2.3	2.2	2.3
Erie .....	116.4	117.1	118.3	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	3.0	3.2	3.5
Harrisburg-Lebanon-Carlisle .....	305.8	310.2	312.4	.4	.4	.4	12.6	13.4	13.5
Johnstown .....	79.0	80.1	80.2	2.6	2.6	2.6	2.3	2.4	2.4
Lancaster .....	186.7	186.9	188.6	.4	.4	.4	11.3	11.4	11.5
Philadelphia PMSA .....	2,192.0	2,182.6	2,187.0	1.1	1.0	1.0	99.2	93.0	94.4
Philadelphia City .....	764.6	764.5	763.0	( <sup>c</sup> )	( <sup>c</sup> )	( <sup>c</sup> )	16.4	16.0	15.9
Pittsburgh .....	683.2	695.2	702.0	4.6	4.4	4.5	37.0	36.4	36.6

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>New Mexico</b> .....	41.1	42.1	42.2	29.0	28.9	28.7	131.0	131.8	132.9
Albuquerque .....	20.9	20.9	21.0	12.6	12.6	12.6	60.2	59.7	60.2
Las Cruces .....	3.5	3.5	3.5	1.5	1.6	1.6	8.7	9.0	9.0
Santa Fe .....	1.7	1.7	1.7	.9	1.0	1.0	10.5	10.4	10.7
<b>New York</b> .....	1,197.7	1,166.0	1,169.6	413.7	419.2	420.9	1,704.1	1,702.1	1,710.5
Albany-Schenectady-Troy .....	47.2	46.4	46.7	17.0	17.4	17.2	90.0	92.2	92.5
Binghamton .....	37.0	34.6	34.7	4.3	4.5	4.5	25.1	25.1	25.1
Buffalo .....	77.3	76.8	76.8	21.5	21.9	21.8	113.5	116.1	117.1
Elmira .....	9.1	8.7	8.6	1.5	1.4	1.4	10.5	10.5	10.6
Glens Falls .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Nassau-Suffolk .....	165.1	157.8	157.7	49.4	50.7	51.1	298.0	293.8	295.9
New York P.M.S.A. ....	439.0	427.8	430.8	244.1	245.0	245.9	749.5	743.8	746.1
New York City .....	363.7	351.4	354.7	218.7	219.6	220.4	628.6	623.0	624.7
Niagara Falls .....	23.9	24.0	24.0	3.6	3.7	3.8	19.4	20.2	20.2
Orange County .....	14.8	13.2	13.1	6.3	6.8	6.8	29.1	29.2	29.5
Poughkeepsie .....	30.0	30.2	30.1	3.6	3.8	3.8	21.9	21.8	21.8
Rochester .....	138.9	132.1	131.6	14.9	15.3	15.4	101.9	104.2	106.1
Rockland County .....	15.0	14.7	14.6	4.7	5.2	5.2	23.0	23.2	23.3
Syracuse .....	53.2	52.1	52.4	18.5	19.2	19.1	73.2	74.8	75.1
Utica-Rome .....	24.7	23.7	23.7	4.3	4.4	4.4	27.0	27.5	27.5
Westchester County .....	58.2	59.7	59.5	20.1	19.5	19.6	93.4	93.4	93.8
<b>North Carolina</b> .....	867.7	860.7	857.9	150.0	152.9	153.8	695.2	720.0	719.7
Asheville .....	19.6	20.1	20.2	4.1	4.3	4.3	19.7	21.6	21.7
Charlotte-Gastonia-Rock Hill .....	154.3	154.1	153.5	49.2	50.1	50.1	151.0	155.5	156.0
Greensboro-Winston-Salem-High Point .....	152.6	148.1	147.5	26.9	26.1	26.1	111.3	111.7	111.6
Raleigh-Durham .....	61.7	63.6	63.3	19.5	21.2	21.2	88.2	91.3	91.2
<b>North Dakota</b> .....	16.2	16.9	17.2	16.7	17.0	17.0	66.9	67.8	68.3
Bismarck .....	2.0	2.2	2.2	2.7	2.9	2.9	10.0	10.1	10.2
Fargo-Moorhead .....	5.0	5.3	5.6	4.7	4.6	4.6	21.0	21.0	21.2
Grand Forks .....	1.7	1.6	1.6	1.6	1.7	1.7	8.6	9.1	9.3
<b>Ohio</b> .....	1,122.6	1,113.8	1,115.1	211.1	213.7	215.1	1,138.2	1,163.7	1,174.3
Akron .....	67.5	67.3	67.8	12.9	13.2	13.2	69.5	70.3	70.9
Canton .....	46.2	45.4	44.9	5.6	5.5	5.5	40.5	40.7	40.9
Cincinnati .....	144.8	149.1	148.4	38.3	40.1	40.3	185.0	191.4	193.9
Cleveland .....	206.9	206.6	206.2	40.6	41.5	42.1	220.3	223.9	225.6
Columbus .....	104.0	104.2	104.1	30.1	30.8	31.0	176.7	180.1	182.1
Dayton-Springfield .....	105.6	103.3	104.2	17.2	17.9	18.0	98.8	99.6	100.7
Toledo .....	62.7	59.2	58.9	13.7	14.1	14.2	72.1	73.4	74.3
Youngstown-Warren .....	50.8	49.2	49.4	7.6	7.6	7.6	51.1	52.8	53.3
<b>Oklahoma</b> .....	162.0	164.1	165.8	64.5	65.7	65.6	272.7	274.6	277.5
Enid .....	1.6	1.5	1.5	2.2	2.2	2.2	6.1	6.2	6.2
Lawton .....	3.3	3.4	3.4	1.9	1.7	1.7	8.2	8.5	8.6
Oklahoma City .....	48.7	49.1	48.9	20.6	20.6	20.9	102.1	102.5	103.3
Tulsa .....	52.5	53.2	53.7	23.7	24.3	24.5	71.4	73.4	73.4
<b>Oregon</b> .....	208.5	212.7	214.0	61.1	64.0	64.0	295.9	308.7	312.4
Eugene-Springfield .....	20.9	20.3	20.6	4.2	4.4	4.5	28.0	29.5	29.4
Portland .....	99.6	101.0	101.6	36.4	37.8	37.6	157.8	164.3	165.6
Salem .....	13.4	13.7	13.9	2.8	2.8	2.8	22.6	23.1	23.3
<b>Pennsylvania</b> .....	1,051.6	1,031.3	1,028.9	254.2	252.2	253.1	1,161.5	1,160.1	1,166.6
Allentown-Bethlehem .....	76.2	74.8	74.8	14.3	13.8	13.7	61.9	62.4	62.4
Altoona .....	10.3	10.2	10.2	4.5	4.5	4.5	13.7	14.0	14.1
Beaver County .....	9.2	8.9	8.9	5.1	5.1	5.1	11.3	11.4	11.5
Erie .....	36.0	36.3	36.4	4.4	4.3	4.4	25.0	25.0	25.1
Harrisburg-Lebanon-Carlisle .....	51.5	50.8	50.0	19.3	18.9	19.1	70.5	71.4	71.9
Johnstown .....	14.3	14.6	14.5	5.2	5.1	5.1	17.0	17.0	17.1
Lancaster .....	59.0	58.3	58.2	7.6	7.3	7.3	45.5	45.6	46.3
Philadelphia P.M.S.A. ....	366.7	359.5	358.6	101.2	98.9	99.0	511.0	507.1	508.0
Philadelphia City .....	88.1	85.4	84.6	42.3	41.3	41.0	145.7	146.2	145.8
Pittsburgh .....	123.1	122.4	122.8	48.0	48.8	49.3	221.9	222.8	224.1

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>New Mexico</b> .....	26.0	26.6	26.6	137.5	139.6	140.8	146.9	151.2	152.0
Albuquerque .....	14.2	14.2	14.2	70.1	71.1	71.5	48.6	49.8	50.2
Las Cruces .....	1.6	1.7	1.7	7.5	7.8	7.9	17.2	18.2	18.2
Santa Fe .....	2.1	2.0	2.1	14.8	15.2	15.3	22.7	23.9	24.0
<b>New York</b> .....	790.0	787.4	787.2	2,313.5	2,364.7	2,384.9	1,463.3	1,470.9	1,482.0
Albany-Schenectady-Troy .....	24.3	24.8	24.9	111.5	113.8	114.6	113.5	115.1	116.0
Binghamton .....	4.1	4.1	4.1	24.0	24.5	24.6	21.8	22.0	22.1
Buffalo .....	27.7	28.3	28.4	120.8	124.9	126.2	76.1	76.0	76.8
Elmira .....	1.4	1.4	1.4	10.3	10.8	10.8	6.8	7.3	7.4
Glens Falls .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Nassau-Suffolk .....	82.1	83.3	83.7	296.7	301.9	306.2	187.2	189.3	189.8
New York PMSA .....	566.9	561.9	560.2	1,298.5	1,320.9	1,331.2	688.4	687.7	695.9
New York City .....	531.1	525.5	523.8	1,144.4	1,164.9	1,172.8	605.3	604.0	612.0
Niagara Falls .....	2.0	2.0	2.0	17.0	17.8	18.0	13.1	13.3	13.3
Orange County .....	4.6	4.8	4.8	23.0	23.7	23.8	23.5	24.8	24.7
Poughkeepsie .....	4.8	4.9	4.8	28.7	28.6	28.6	24.8	25.1	25.3
Rochester .....	22.4	22.9	23.0	120.3	123.0	122.9	68.4	68.1	67.8
Rockland County .....	5.3	5.3	5.4	26.5	26.8	27.0	21.5	21.4	21.6
Syracuse .....	19.7	19.9	19.9	75.0	77.3	77.4	52.8	53.4	53.4
Utica-Rome .....	7.1	7.5	7.5	27.0	28.1	28.2	31.4	32.3	32.3
Westchester County .....	29.9	30.3	30.3	122.4	124.1	126.3	57.6	58.2	58.2
<b>North Carolina</b> .....	130.3	131.5	132.1	547.2	570.8	576.6	482.4	487.2	489.8
Asheville .....	2.8	2.9	2.9	19.5	20.2	20.3	12.6	13.0	13.4
Charlotte-Gastonia-Rock Hill .....	37.7	38.4	38.4	113.7	118.5	121.1	68.3	72.6	73.0
Greensboro-Winston-Salem-High Point .....	23.5	23.5	23.5	94.9	97.0	97.7	54.6	55.6	55.8
Raleigh-Durham .....	23.4	23.8	23.9	106.3	110.8	111.5	95.1	96.0	96.2
<b>North Dakota</b> .....	12.1	12.4	12.4	64.7	66.8	67.3	66.5	66.6	66.5
Bismarck .....	1.5	1.5	1.5	11.5	11.7	11.9	8.9	8.9	9.0
Fargo-Moorhead .....	4.4	4.5	4.5	20.7	21.7	21.3	15.1	15.4	15.2
Grand Forks .....	1.1	1.2	1.2	7.0	7.0	7.0	9.8	10.1	10.0
<b>Ohio</b> .....	249.8	253.8	255.1	1,118.2	1,133.2	1,148.2	720.3	728.6	734.2
Akron .....	10.2	10.4	10.5	63.2	66.1	66.9	46.3	46.4	46.8
Canton .....	6.8	6.7	6.8	37.1	38.1	38.3	19.1	19.8	19.8
Cincinnati .....	42.2	42.4	42.5	179.1	180.7	183.9	91.8	92.8	93.2
Cleveland .....	56.5	57.0	57.3	247.9	250.2	253.6	119.0	120.0	121.0
Columbus .....	59.6	60.1	60.4	167.6	172.2	174.5	126.9	127.9	128.8
Dayton-Springfield .....	17.7	17.7	17.6	114.5	114.8	116.0	75.6	78.2	78.6
Toledo .....	12.0	11.9	11.9	74.2	75.3	76.3	45.3	45.4	45.7
Youngstown-Warren .....	8.4	8.7	8.7	45.4	46.2	46.7	25.2	25.1	25.5
<b>Oklahoma</b> .....	58.6	55.8	55.9	255.7	259.5	263.4	261.9	258.4	259.0
Enid .....	1.0	.9	.9	5.2	5.3	5.4	3.7	3.8	3.9
Lawton .....	1.6	1.7	1.7	6.1	6.0	6.2	11.6	12.1	12.2
Oklahoma City .....	24.5	24.4	24.1	102.1	105.1	106.4	100.5	103.0	104.0
Tulsa .....	16.5	17.4	17.5	77.1	80.9	81.7	37.3	36.8	36.9
<b>Oregon</b> .....	74.3	75.3	75.5	275.7	284.0	288.0	218.9	222.8	224.2
Eugene-Springfield .....	5.4	5.7	5.8	26.5	28.2	28.7	24.0	24.8	24.8
Portland .....	48.7	49.7	49.8	153.6	158.4	159.6	82.3	84.9	85.5
Salem .....	5.3	5.3	5.4	21.6	22.1	22.4	31.5	31.8	32.0
<b>Pennsylvania</b> .....	293.5	295.2	295.5	1,364.3	1,387.2	1,399.2	708.8	716.2	719.1
Allentown-Bethlehem .....	14.3	14.5	14.4	69.2	70.3	71.1	30.9	31.8	31.9
Altoona .....	1.8	1.9	1.9	11.3	11.7	11.7	7.2	7.3	7.3
Beaver County .....	1.6	1.6	1.6	11.3	11.5	11.6	8.1	8.1	8.0
Erie .....	5.4	5.5	5.5	27.9	28.7	29.0	14.7	14.1	14.4
Harrisburg-Lebanon-Carlisle .....	19.3	21.1	21.3	65.6	67.0	68.1	66.6	67.2	68.1
Johnstown .....	4.4	4.4	4.4	20.5	21.3	21.3	12.7	12.7	12.8
Lancaster .....	7.1	7.3	7.3	38.9	39.9	40.7	16.9	16.7	16.9
Philadelphia PMSA .....	160.1	158.5	158.5	647.3	657.0	659.1	305.4	307.6	308.4
Philadelphia City .....	70.0	69.0	69.0	260.1	263.7	263.9	142.0	142.9	142.8
Pittsburgh .....	52.8	54.7	54.9	287.9	296.4	299.1	107.9	109.3	110.7

See footnotes at end of table.



**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	152.5	154.6	155.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.6	6.6	7.1
Scranton-Wilkes-Barre .....	301.7	304.2	305.9	0.5	0.6	0.6	12.5	12.4	13.0
Sharon .....	42.9	43.0	43.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.2	1.2	1.3
State College .....	58.2	60.3	60.5	.4	.3	.3	2.4	2.7	2.9
Williamsport .....	51.2	51.8	52.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.2	2.3	2.4
York .....	179.2	180.1	179.8	.5	.4	.4	9.9	10.3	10.4
<b>Rhode Island</b> .....	457.3	454.0	455.5	.1	.1	.1	18.2	17.5	17.8
Pawtucket-Woonsocket-Attleboro .....	132.0	132.0	132.4	.2	.2	.2	4.7	4.4	4.5
Providence .....	323.7	328.5	329.8	.1	.1	.1	13.2	13.9	14.2
<b>South Carolina</b> .....	1,479.4	1,522.6	1,532.3	1.9	1.8	1.8	89.3	98.8	100.0
Charleston .....	195.7	201.2	202.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13.1	14.6	14.9
Columbia .....	239.2	241.8	242.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14.4	14.2	14.5
Greenville-Spartanburg .....	329.0	337.4	339.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.7	23.0	23.2
<b>South Dakota</b> .....	265.9	271.0	272.2	2.6	2.6	2.6	7.5	7.8	8.1
Rapid City .....	34.1	35.7	36.1	.2	.3	.3	1.5	1.5	1.6
Sioux Falls .....	68.7	70.9	71.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.5	2.5
<b>Tennessee</b> .....	2,118.5	2,153.0	2,161.5	6.2	6.2	6.3	90.3	91.7	94.2
Chattanooga .....	194.7	196.0	196.6	.7	.7	.8	7.6	7.9	7.9
Johnson City-Kingsport-Bristol .....	166.6	170.1	170.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.2	7.5	7.7
Knoxville .....	257.8	259.6	261.1	1.8	1.9	1.9	13.5	14.4	14.6
Memphis .....	457.5	461.1	463.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18.8	19.0	19.0
Nashville .....	494.7	493.6	494.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24.1	24.0	23.8
<b>Texas</b> .....	6,769.7	6,880.4	6,895.8	174.2	175.2	175.3	312.9	314.3	313.5
Abilene .....	48.3	48.7	48.9	1.5	1.4	1.4	1.5	1.4	1.4
Amarillo .....	76.4	75.3	75.4	1.4	1.1	1.1	3.4	3.2	3.1
Austin .....	361.0	367.8	367.8	.6	.6	.6	11.6	10.7	10.7
Beaumont-Port Arthur .....	134.6	136.4	137.3	1.5	1.6	1.6	10.2	10.1	10.3
Brazoria .....	61.6	63.3	63.7	2.1	2.0	2.0	8.2	8.5	8.6
Brownsville-Harlingen .....	72.8	75.4	76.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.1	2.1
Bryan-College Station .....	51.9	53.5	54.0	.5	.5	.5	1.7	1.4	1.6
Corpus Christi .....	126.8	129.2	129.5	3.7	3.5	3.5	8.1	10.5	10.6
Dallas .....	1,337.3	1,353.4	1,355.0	17.7	17.1	17.2	46.7	43.9	43.6
El Paso .....	198.9	207.0	206.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.8	8.3	8.3
Ft. Worth-Arlington .....	554.2	571.6	572.1	3.7	4.0	4.0	20.3	21.2	20.7
Galveston-Texas City .....	74.1	73.7	74.5	.5	.6	.5	6.1	6.3	6.7
Houston .....	1,483.0	1,526.1	1,533.3	65.6	67.5	67.6	92.1	98.3	98.2
Killeen-Temple .....	71.7	73.6	73.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.1	3.0
Laredo .....	41.5	43.5	43.6	1.6	1.6	1.6	1.2	1.2	1.2
Longview-Marshall .....	66.5	68.6	68.7	3.3	3.4	3.4	3.0	3.5	3.5
Lubbock .....	93.7	95.7	95.7	.3	.3	.3	3.1	2.8	2.9
McAllen-Edinburg-Mission .....	99.2	98.0	98.6	.9	.9	.9	4.2	4.2	4.4
Midland .....	44.7	44.8	44.6	9.0	8.5	8.5	1.3	1.4	1.3
Odessa .....	42.4	42.6	42.5	5.0	5.1	5.1	2.0	2.0	2.0
San Angelo .....	37.2	35.9	36.2	.5	.6	.6	1.3	1.1	1.1
San Antonio .....	512.3	512.7	513.8	2.1	2.2	2.2	21.9	20.8	20.2
Sherman-Denison .....	36.8	37.1	36.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	1.8	1.7
Texarkana .....	45.6	46.8	47.1	.1	.1	.1	1.5	1.4	1.4
Tyler .....	61.2	62.1	62.1	1.7	1.7	1.7	1.6	1.6	1.6
Victoria .....	27.4	27.8	27.9	1.3	1.3	1.3	1.4	1.7	1.7
Waco .....	80.1	82.2	82.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.0	2.9	2.8
Wichita Falls .....	49.5	50.8	50.8	1.5	1.4	1.4	1.6	1.5	1.6

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Pennsylvania-Continued</b>									
Reading .....	48.4	47.2	46.7	6.6	6.7	6.7	33.5	34.4	34.6
Scranton-Wilkes-Barre .....	71.5	70.0	70.5	15.9	16.2	16.3	71.1	72.4	72.5
Sharon .....	11.5	11.3	11.3	1.8	1.9	1.9	10.4	10.4	10.3
State College .....	8.2	8.1	8.3	1.5	1.6	1.6	11.3	11.4	11.5
Williamsport .....	16.1	16.0	15.8	1.7	1.8	1.8	11.4	11.8	11.9
York .....	61.7	59.2	58.9	7.5	7.4	7.4	42.9	44.1	44.4
<b>Rhode Island</b>	110.4	106.9	106.6	15.1	15.0	15.1	105.3	104.8	105.7
Pawtucket-Woonsocket-Attleboro .....	50.0	49.2	49.0	3.9	3.8	3.9	33.9	34.2	34.6
Providence .....	70.3	69.6	69.4	11.4	11.4	11.3	71.8	72.7	73.0
<b>South Carolina</b>	389.4	389.9	388.7	62.8	64.3	64.4	327.5	337.3	340.8
Charleston .....	21.0	20.9	20.8	10.1	10.8	10.7	47.9	49.8	50.3
Columbia .....	28.9	28.8	28.7	10.9	10.7	10.8	53.3	53.9	54.3
Greenville-Spartanburg .....	104.6	102.3	101.8	12.8	13.1	13.3	75.9	78.4	79.0
<b>South Dakota</b>	31.4	31.6	31.6	13.2	13.1	13.1	69.0	71.1	71.7
Rapid City .....	3.4	3.7	3.7	1.9	2.0	1.9	9.7	10.2	10.4
Sioux Falls .....	8.3	8.4	8.5	5.1	5.2	5.2	19.1	19.8	19.8
<b>Tennessee</b>	519.5	523.4	523.0	114.4	113.8	113.8	497.2	500.9	502.9
Chattanooga .....	47.5	47.0	46.8	8.2	7.7	7.7	46.7	45.1	45.2
Johnson City-Kingsport-Bristol .....	53.3	54.1	54.3	6.1	6.2	6.2	37.7	38.1	38.0
Knoxville .....	52.1	51.3	50.6	10.5	10.5	10.4	66.4	66.0	66.6
Memphis .....	61.8	61.3	61.7	46.1	46.9	46.9	122.4	124.2	124.6
Nashville .....	90.4	89.9	90.3	27.0	26.8	26.9	120.7	116.7	116.9
<b>Texas</b>	967.1	965.4	964.3	396.7	408.5	408.8	1,665.2	1,679.5	1,684.0
Abilene .....	4.8	5.0	5.0	2.5	2.6	2.6	13.1	13.1	13.2
Amarillo .....	8.8	9.0	9.0	5.5	5.6	5.5	22.1	21.0	21.1
Austin .....	42.7	45.4	45.2	11.0	11.3	11.2	77.3	77.5	77.2
Beaumont-Port Arthur .....	24.8	24.6	24.8	9.4	9.4	9.5	31.5	32.1	32.2
Brazoria .....	15.8	16.1	16.2	2.5	2.5	2.6	11.2	11.6	11.6
Brownsville-Harlingen .....	10.4	11.0	11.0	3.0	3.1	3.1	19.6	20.4	20.6
Bryan-College Station .....	3.4	3.7	3.7	1.3	1.4	1.4	11.5	11.5	11.5
Corpus Christi .....	11.7	11.6	11.7	6.8	6.7	6.7	31.8	31.8	31.9
Dallas .....	223.2	222.1	221.0	76.2	79.6	79.7	342.5	351.7	353.3
El Paso .....	40.3	40.3	40.0	10.7	10.3	10.4	49.3	52.0	51.9
Ft. Worth-Arlington .....	118.6	120.5	121.0	51.0	54.2	54.2	141.5	143.8	144.0
Galveston-Texas City .....	8.7	8.9	8.9	5.0	4.7	4.9	13.7	13.6	13.8
Houston .....	161.1	163.0	163.2	103.9	106.5	106.3	361.5	364.0	366.7
Killeen-Temple .....	8.5	8.6	8.7	2.6	2.7	2.6	16.3	16.2	16.4
Laredo .....	1.7	1.8	1.8	5.5	6.1	6.2	13.3	13.9	13.9
Longview-Marshall .....	15.9	16.5	16.3	3.3	3.5	3.4	16.8	16.8	17.0
Lubbock .....	7.1	7.4	7.3	4.9	5.7	5.7	27.0	27.3	27.0
McAllen-Edinburg-Mission .....	13.3	12.5	12.2	3.0	3.0	3.0	31.8	30.7	30.8
Midland .....	2.3	2.6	2.3	2.3	2.3	2.3	10.6	10.9	10.9
Odessa .....	4.0	4.1	4.1	1.9	1.9	1.8	12.5	12.4	12.5
San Angelo .....	5.5	5.0	5.1	3.0	2.6	2.6	9.1	8.8	8.8
San Antonio .....	48.2	47.7	47.5	19.5	19.5	19.6	129.2	128.0	128.7
Sherman-Denison .....	10.8	10.9	10.8	1.7	1.4	1.4	7.8	8.0	7.9
Texarkana .....	7.2	7.1	7.1	2.2	2.4	2.4	10.4	10.5	10.7
Tyler .....	11.0	10.9	10.9	2.5	2.8	2.8	16.1	16.3	16.3
Victoria .....	3.3	3.0	3.1	1.3	1.2	1.2	7.5	7.5	7.6
Waco .....	15.1	16.1	16.2	3.4	3.5	3.5	18.3	18.4	18.3
Wichita Falls .....	8.1	8.5	8.3	2.5	2.6	2.6	11.3	11.8	11.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Pennsylvania—Continued</b>									
Reading .....	8.5	9.0	9.0	31.3	32.3	32.5	17.6	18.4	18.6
Scranton-Wilkes-Barre .....	12.9	13.4	13.3	75.1	76.6	76.9	42.2	42.6	42.8
Sharon .....	1.3	1.3	1.4	11.7	11.7	11.7	5.0	5.2	5.1
State College .....	1.7	1.8	1.8	10.2	10.8	10.7	22.5	23.6	23.4
Williamsport .....	2.3	2.3	2.4	10.4	10.5	10.7	7.1	7.1	7.1
York .....	4.9	5.1	5.1	33.2	34.5	34.2	18.6	19.1	19.0
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	26.6	26.6	26.7	122.1	123.5	122.7	59.5	59.6	59.3
Providence .....	3.8	4.0	4.0	25.3	26.1	26.1	10.2	10.1	10.1
	22.3	21.3	21.7	89.6	94.0	94.7	45.0	45.5	45.4
<b>South Carolina</b>									
Charleston .....	66.4	69.0	69.7	268.0	278.2	282.6	274.1	283.3	284.3
Columbia .....	8.9	8.5	8.6	41.1	42.9	43.3	53.6	53.7	53.9
Greenville-Spartanburg .....	17.7	18.4	18.4	47.1	47.6	47.8	66.9	68.2	68.4
	12.1	12.2	12.3	59.9	64.9	66.1	41.0	43.5	43.3
<b>South Dakota</b>									
Rapid City .....	15.2	16.1	16.2	64.8	66.4	66.4	62.1	62.3	62.5
Sioux Falls .....	1.6	1.5	1.6	8.8	9.2	9.3	7.0	7.3	7.3
	7.0	7.6	7.7	19.2	19.4	19.7	7.6	8.0	8.0
<b>Tennessee</b>									
Chattanooga .....	103.1	102.9	103.2	454.0	469.5	473.0	333.9	344.6	345.1
Johnson City-Kingsport-Bristol .....	12.4	12.9	13.0	37.9	40.7	40.9	33.7	34.0	34.3
Knoxville .....	5.4	5.3	5.3	32.1	32.3	32.3	24.8	26.6	26.7
Memphis .....	10.1	9.7	9.7	53.3	54.6	56.0	50.1	51.3	51.2
Nashville .....	25.4	26.0	26.2	106.7	107.8	109.0	76.3	75.9	75.8
	32.7	32.3	32.4	129.9	134.1	134.0	69.9	69.7	69.8
<b>Texas</b>									
Abilene .....	432.1	433.1	432.2	1,590.9	1,639.8	1,651.3	1,230.6	1,264.6	1,266.4
Amarillo .....	2.3	2.2	2.2	13.6	14.1	14.2	9.0	8.9	8.9
Austin .....	4.2	4.0	3.9	16.8	17.0	17.3	14.2	14.4	14.4
Beaumont-Port Arthur .....	23.4	23.8	23.7	88.5	91.3	91.9	105.9	107.2	107.3
Brazoria .....	5.1	5.3	5.3	31.1	32.1	32.4	21.0	21.2	21.2
Brownsville-Harlingen .....	1.8	1.8	1.8	8.6	9.0	9.1	11.4	11.8	11.8
Bryan-College Station .....	3.7	3.8	3.8	16.9	17.3	18.1	17.2	17.7	17.5
Corpus Christi .....	1.7	1.8	1.8	9.0	9.0	9.1	22.8	24.2	24.4
Dallas .....	6.4	6.3	6.4	29.9	30.4	30.3	28.4	28.4	28.4
El Paso .....	129.0	130.5	129.9	344.4	347.2	348.5	157.6	161.3	161.8
Ft. Worth-Arlington .....	8.6	8.5	8.3	40.0	42.0	42.4	42.2	45.6	45.3
Galveston-Texas City .....	27.7	27.6	27.6	120.8	125.8	126.2	70.6	74.5	74.4
Houston .....	4.6	4.4	4.4	13.5	13.4	13.5	22.0	21.8	21.8
Killeen-Temple .....	100.7	101.3	101.7	402.6	421.8	425.8	195.5	203.7	203.8
Laredo .....	2.9	3.2	3.2	16.6	17.3	17.3	21.4	22.5	22.6
Longview-Marshall .....	1.7	1.9	1.9	6.8	7.3	7.3	9.7	9.7	9.7
Lubbock .....	2.8	2.7	2.7	12.6	13.5	13.7	8.8	8.7	8.7
McAllen-Edinburg-Mission .....	5.2	5.4	5.4	23.7	23.6	23.8	22.4	23.2	23.3
Midland .....	4.0	4.3	4.3	16.2	16.3	16.7	25.8	26.1	26.3
Odessa .....	2.4	2.4	2.4	9.8	9.4	9.6	7.0	7.3	7.3
San Angelo .....	1.6	1.6	1.5	7.6	7.5	7.5	7.8	8.0	8.0
San Antonio .....	1.7	1.6	1.6	8.9	8.7	8.8	7.2	7.5	7.6
Sherman-Denison .....	40.5	41.2	41.3	130.7	131.6	133.0	120.2	121.7	121.3
Texarkana .....	1.9	1.9	1.9	8.5	8.7	8.7	4.5	4.4	4.3
Tyler .....	1.9	1.8	1.8	9.8	10.7	10.7	12.5	12.8	12.9
Victoria .....	3.3	3.5	3.5	14.7	15.2	15.2	10.3	10.1	10.1
Waco .....	1.5	1.5	1.5	6.0	5.8	5.8	5.1	5.8	5.7
Wichita Falls .....	5.0	5.2	5.1	22.0	22.9	22.9	13.3	13.2	13.2
	2.3	2.4	2.4	12.5	12.7	12.7	9.7	9.9	9.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Utah</b> .....	675.9	698.2	707.7	7.6	8.4	8.4	22.9	21.6	23.9
Provo-Orem .....	84.5	88.9	91.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.5	2.2	2.6
Salt Lake City-Ogden .....	462.4	478.7	483.2	2.5	2.6	2.7	16.1	16.1	17.7
<b>Vermont</b> .....	261.2	262.4	260.0	.4	.5	.5	15.8	16.0	14.9
Barre-Montpelier .....	34.7	34.5	34.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.5	2.5
Burlington .....	79.9	80.9	81.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.0	5.0	4.6
<b>Virginia</b> .....	2,808.9	2,875.7	2,897.7	15.8	15.1	16.0	187.5	186.2	189.9
Bristol .....	32.7	33.8	33.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.1	1.0	1.0
Charlottesville .....	70.4	77.1	77.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	4.1	4.1	4.2
Danville .....	41.5	42.9	42.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.1	2.1
Lynchburg .....	75.3	77.6	77.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.5	3.3	3.4
Norfolk-Virginia Beach-Newport News .....	568.1	580.8	585.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	35.7	36.6	36.8
Northern Virginia .....	761.8	774.4	779.2	.5	.5	.6	61.1	55.9	55.7
Richmond-Petersburg .....	462.3	472.5	473.8	.9	.8	.8	29.2	30.2	30.2
Roanoke .....	124.1	125.1	126.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.5	7.2	7.2
<b>Washington</b> .....	1,987.1	2,073.3	2,096.7	3.4	3.7	3.7	96.4	103.3	109.4
Seattle .....	1,025.7	1,075.5	1,087.3	.5	.5	.5	51.3	53.8	56.0
<b>West Virginia</b> .....	606.3	611.1	617.1	35.0	35.0	35.5	20.7	20.3	21.1
Charleston .....	106.5	109.2	109.4	2.0	2.0	2.0	3.8	3.8	3.9
Huntington-Ashland .....	108.7	109.1	109.6	1.3	1.4	1.4	4.8	5.4	5.4
Parkersburg-Marietta .....	59.5	61.3	61.4	.5	.5	.5	2.6	3.2	3.2
Wheeling .....	58.5	60.1	60.6	2.2	2.3	2.3	1.8	1.9	1.9
<b>Wisconsin</b> .....	2,179.1	2,219.2	2,227.2	1.7	1.5	1.7	65.0	74.4	74.4
Appleton-Oshkosh-Neenah .....	152.1	155.2	156.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	5.8	6.2	6.2
Eau Claire .....	58.5	60.7	61.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.7	1.7
Green Bay .....	98.0	101.6	102.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.6	4.8	4.5
Janesville-Beloit .....	57.7	58.6	58.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.6	2.1	2.1
Kenosha .....	40.5	39.3	39.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.5	1.3
La Crosse .....	53.2	53.1	53.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.3	1.5	1.7
Madison .....	207.4	212.8	213.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.8	7.1	7.2
Milwaukee .....	731.4	752.3	755.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22.5	26.2	26.3
Racine .....	74.8	77.2	77.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.9	2.7	2.5
Sheboygan .....	50.8	51.5	51.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.4	1.3	1.4
Wausau .....	50.2	53.4	53.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	2.1	2.0
<b>Wyoming</b> .....	183.8	186.0	186.8	16.2	16.3	16.2	8.5	8.0	8.5
Casper .....	26.6	27.3	27.2	2.2	2.3	2.2	1.3	1.3	1.3
<b>Puerto Rico</b> .....	822.4	( <sup>2</sup> )	( <sup>2</sup> )	.8	( <sup>2</sup> )	( <sup>2</sup> )	42.4	( <sup>2</sup> )	( <sup>2</sup> )
Caguas .....	52.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Mayaguez .....	59.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Ponce .....	53.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
San Juan .....	507.6	( <sup>2</sup> )	( <sup>2</sup> )	.4	( <sup>2</sup> )	( <sup>2</sup> )	30.4	( <sup>2</sup> )	( <sup>2</sup> )
<b>Virgin Islands</b> .....	43.3	40.8	41.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.4	2.5	2.5

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Utah</b> .....	101.0	103.1	103.6	39.9	41.9	41.8	159.9	167.8	170.5
Provo-Orem .....	13.2	13.4	13.5	2.7	2.7	2.7	17.9	19.9	20.4
Salt Lake City-Ogden .....	65.5	66.7	66.9	30.4	32.0	31.8	114.7	118.9	120.0
<b>Vermont</b> .....	48.6	45.9	45.7	10.5	10.5	10.6	61.3	61.2	60.9
Barre-Montpelier .....	4.8	4.9	5.0	.8	.9	.9	7.7	7.5	7.5
Burlington .....	16.4	15.6	15.4	3.4	3.4	3.5	19.8	19.9	19.6
<b>Virginia</b> .....	426.4	424.0	423.4	147.2	152.7	153.2	637.8	649.3	652.9
Bristol .....	10.6	10.9	10.9	1.3	1.3	1.3	8.5	8.8	8.7
Charlottesville .....	9.2	9.0	9.1	2.6	2.7	2.7	14.0	15.0	14.9
Danville .....	16.9	17.1	16.4	1.0	1.1	1.1	8.7	9.0	9.1
Lynchburg .....	23.7	23.8	23.7	2.9	2.8	2.8	16.5	17.2	17.0
Norfolk-Virginia Beach-Newport News .....	68.8	66.6	66.7	27.0	26.9	27.5	138.3	140.3	141.3
Northern Virginia .....	35.2	34.8	35.1	52.6	54.6	54.8	169.7	174.7	175.1
Richmond-Petersburg .....	64.4	63.3	63.1	24.4	24.5	24.6	109.8	110.1	111.2
Roanoke .....	19.8	19.7	19.9	7.9	7.8	7.8	33.6	33.2	33.7
<b>Washington</b> .....	349.2	361.4	363.0	103.6	109.7	109.7	481.1	502.7	507.9
Seattle .....	209.4	219.7	220.5	63.0	68.4	68.4	247.1	256.8	260.4
<b>West Virginia</b> .....	87.0	87.2	87.3	36.3	36.0	36.4	141.9	142.1	142.3
Charleston .....	10.4	10.8	10.8	8.8	9.1	9.0	28.0	28.6	28.6
Huntington-Ashland .....	20.3	20.3	20.5	8.1	7.0	7.1	26.7	27.4	27.3
Parkersburg-Marietta .....	14.2	14.2	14.1	2.4	2.5	2.5	14.5	15.2	15.2
Wheeling .....	7.1	7.2	7.2	3.3	3.3	3.4	15.9	16.8	16.8
<b>Wisconsin</b> .....	552.1	548.6	549.7	97.8	97.9	98.4	509.2	523.8	525.8
Appleton-Oshkosh-Neenah .....	52.9	53.5	53.9	5.2	5.5	5.5	32.6	33.7	34.0
Eau Claire .....	11.3	10.8	10.9	3.4	3.4	3.4	16.2	16.7	16.9
Green Bay .....	23.8	23.9	23.9	7.1	7.1	7.1	25.4	26.1	26.3
Janesville-Beloit .....	18.9	17.7	17.5	2.4	2.3	2.2	13.4	13.2	13.4
Kenosha .....	12.1	9.6	9.8	1.0	1.5	1.6	9.5	10.1	10.1
La Crosse .....	10.5	9.9	9.9	2.3	2.4	2.4	14.6	14.3	14.3
Madison .....	24.5	24.9	25.0	6.9	6.8	6.8	46.5	49.1	48.7
Milwaukee .....	174.7	174.4	174.7	35.8	36.0	36.1	166.8	173.4	174.1
Racine .....	26.4	26.4	26.3	2.3	2.3	2.3	17.2	17.9	18.1
Sheboygan .....	21.6	21.8	21.8	1.5	1.5	1.6	9.4	9.5	9.5
Wausau .....	13.9	14.9	14.9	2.8	3.0	3.0	12.5	13.4	13.5
<b>Wyoming</b> .....	8.0	8.4	8.4	13.8	14.0	13.9	41.4	42.2	42.6
Casper .....	1.4	1.6	1.6	1.6	1.7	1.7	7.6	7.7	7.7
<b>Puerto Rico</b> .....	160.4	( <sup>2</sup> )	( <sup>2</sup> )	17.3	( <sup>2</sup> )	( <sup>2</sup> )	144.7	( <sup>2</sup> )	( <sup>2</sup> )
Caguas .....	16.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	10.9	( <sup>2</sup> )	( <sup>2</sup> )
Mayaguez .....	21.4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	7.5	( <sup>2</sup> )	( <sup>2</sup> )
Ponce .....	10.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.9	( <sup>2</sup> )	( <sup>2</sup> )
San Juan .....	67.2	( <sup>2</sup> )	( <sup>2</sup> )	14.1	( <sup>2</sup> )	( <sup>2</sup> )	99.7	( <sup>2</sup> )	( <sup>2</sup> )
<b>Virgin Islands</b> .....	2.4	2.2	2.2	2.5	2.1	2.1	10.5	10.1	10.3

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
NOT SEASONALLY ADJUSTED**

**B-8. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Utah</b> .....	33.1	33.4	33.7	164.1	172.2	175.4	147.4	149.8	150.4
Provo-Orem .....	2.3	2.2	2.2	31.7	34.1	35.0	14.2	14.4	14.6
Salt Lake City-Ogden .....	26.9	27.1	27.2	110.1	116.1	117.7	96.2	99.2	99.2
<b>Vermont</b> .....	12.7	13.0	12.9	68.0	70.5	69.2	43.9	44.8	45.3
Barre-Montpelier .....	3.1	3.1	3.1	8.2	7.9	7.8	8.1	7.7	7.8
Burlington .....	3.9	4.0	4.1	18.5	20.3	20.8	12.9	12.7	13.0
<b>Virginia</b> .....	148.9	153.6	154.1	684.8	708.7	719.3	560.5	586.1	588.9
Bristol .....	1.2	1.2	1.2	4.9	5.1	5.1	5.1	5.5	5.4
Charlottesville .....	4.3	4.6	4.6	13.0	13.6	13.7	23.2	28.1	28.6
Danville .....	1.3	1.3	1.3	6.3	6.7	6.8	5.4	5.6	5.7
Lynchburg .....	3.7	3.7	3.7	15.6	17.0	16.8	9.4	9.8	9.9
Norfolk-Virginia Beach-Newport News .....	25.7	26.9	26.8	140.8	146.4	149.3	131.8	137.1	137.2
Northern Virginia .....	50.4	51.5	52.1	248.1	251.9	254.9	144.2	150.5	150.9
Richmond-Petersburg .....	38.1	39.8	39.8	100.9	105.1	106.0	94.6	98.7	98.1
Roanoke .....	8.8	8.9	8.9	31.0	32.4	32.6	15.5	15.9	16.2
<b>Washington</b> .....	109.5	114.8	115.6	461.9	485.1	491.8	382.0	392.6	395.6
Seattle .....	69.8	72.6	72.8	244.5	258.5	262.3	140.1	145.2	146.4
<b>West Virginia</b> .....	23.8	24.3	24.2	135.2	139.6	141.3	126.4	126.6	129.0
Charleston .....	6.1	6.3	6.3	26.9	28.2	28.2	20.5	20.4	20.6
Huntington-Ashland .....	3.8	3.8	3.8	23.9	24.5	24.7	19.8	19.3	19.4
Parkersburg-Marietta .....	2.1	2.2	2.2	13.6	14.1	14.2	9.6	9.4	9.5
Wheeling .....	2.8	3.0	3.0	16.1	16.6	16.6	9.3	9.0	9.4
<b>Wisconsin</b> .....	116.1	118.3	118.8	497.3	509.8	512.3	340.0	344.9	346.2
Appleton-Oshkosh-Neenah .....	7.3	7.4	7.5	30.6	31.2	31.6	17.7	17.6	18.0
Eau Claire .....	1.9	1.9	1.9	13.3	14.4	14.6	11.0	11.7	11.8
Green Bay .....	3.6	4.1	4.1	23.1	24.1	24.5	11.3	11.4	11.5
Janesville-Beloit .....	1.6	1.6	1.6	12.8	13.6	13.8	7.1	8.1	8.1
Kenosha .....	1.3	1.3	1.3	8.9	9.0	9.0	6.4	6.3	6.3
La Crosse .....	1.6	1.7	1.7	14.9	15.4	15.5	8.1	7.9	8.0
Madison .....	18.4	18.6	18.6	46.9	47.8	48.4	57.4	58.5	58.6
Milwaukee .....	49.5	50.7	50.8	196.9	205.3	206.9	85.0	85.9	86.2
Racine .....	2.3	2.4	2.4	16.5	17.0	17.0	8.3	8.5	8.5
Sheboygan .....	2.5	2.7	2.7	9.0	9.2	9.4	5.3	5.4	5.4
Wausau .....	3.5	3.4	3.4	9.3	10.2	10.3	6.5	6.4	6.4
<b>Wyoming</b> .....	7.2	7.1	7.1	33.1	34.3	34.3	55.6	55.7	55.8
Casper .....	1.4	1.4	1.4	6.0	6.2	6.2	5.1	5.1	5.1
<b>Puerto Rico</b> .....	35.9	( <sup>2</sup> )	( <sup>2</sup> )	124.7	( <sup>2</sup> )	( <sup>2</sup> )	296.3	( <sup>2</sup> )	( <sup>2</sup> )
Caguas .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	16.2	( <sup>2</sup> )	( <sup>2</sup> )
Mayaguez .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	19.3	( <sup>2</sup> )	( <sup>2</sup> )
Ponce .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	10.2	( <sup>2</sup> )	( <sup>2</sup> )	17.3	( <sup>2</sup> )	( <sup>2</sup> )
San Juan .....	28.5	( <sup>2</sup> )	( <sup>2</sup> )	90.7	( <sup>2</sup> )	( <sup>2</sup> )	176.7	( <sup>2</sup> )	( <sup>2</sup> )
<b>Virgin Islands</b> .....	2.0	1.9	1.9	10.1	8.8	8.7	13.4	13.2	13.3

<sup>1</sup> Combined with construction.

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.

NOTE: Area definitions are published annually in the May issue of this publication.

All State and area data have been adjusted to March 1989 benchmarks, and industry detail are classified in accordance with the 1987 *Standard Industrial Classification (SIC) Manual*.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**C-1. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry, 1964 to date**

Year and month	Total private <sup>1</sup>			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
<b>Annual averages</b>									
1964 .....	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965 .....	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966 .....	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967 .....	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968 .....	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969 .....	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970 .....	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971 .....	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972 .....	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973 .....	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974 .....	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975 .....	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976 .....	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977 .....	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978 .....	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979 .....	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980 .....	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981 .....	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982 .....	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983 .....	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984 .....	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985 .....	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986 .....	34.8	8.76	304.85	42.2	12.46	525.81	37.4	12.48	466.75
1987 .....	34.8	8.98	312.50	42.4	12.54	531.70	37.8	12.71	480.44
1988 .....	34.7	9.29	322.36	42.3	12.75	539.33	37.9	13.01	493.08
1989 .....	34.7	9.66	335.20	42.8	13.14	562.39	37.9	13.37	506.72
<b>Monthly data, not seasonally adjusted</b>									
<b>1989:</b>									
April .....	34.8	\$9.62	\$334.78	42.8	\$13.19	\$564.53	37.9	\$13.30	\$504.07
May .....	34.5	9.59	330.86	42.0	13.13	551.46	37.7	13.28	500.66
June .....	34.8	9.58	333.38	42.6	13.03	555.08	38.0	13.24	503.12
July .....	35.1	9.63	338.01	42.5	12.95	550.38	38.9	13.33	518.54
August .....	34.9	9.61	335.39	43.2	13.11	566.35	39.0	13.33	519.87
September .....	34.7	9.77	339.02	43.7	13.15	574.66	38.6	13.48	520.33
October .....	34.8	9.81	341.39	43.9	13.10	575.09	39.2	13.52	529.98
November .....	34.5	9.81	338.45	43.6	13.13	572.47	38.1	13.51	514.73
December .....	34.7	9.84	341.45	43.7	13.31	581.65	37.0	13.64	504.68
<b>1990:</b>									
January .....	34.2	9.88	337.90	43.6	13.31	580.32	37.6	13.42	504.59
February .....	34.3	9.91	339.91	43.2	13.30	574.56	37.2	13.42	499.22
March <sup>p</sup> .....	34.4	9.93	341.59	42.9	13.39	574.43	37.9	13.47	510.51
April <sup>p</sup> .....	34.5	9.97	343.97	43.2	13.48	582.34	37.4	13.38	500.41

See footnotes at end of table.

**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**C-1. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry, 1964 to date—Continued**

Year and month	Manufacturing				Transportation and public utilities			Wholesale trade		
	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages										
1964 .....	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.56
1965 .....	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.61	106.49
1966 .....	41.4	2.71	2.59	112.19	41.2	3.11	128.13	40.7	2.73	111.11
1967 .....	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.88	116.06
1968 .....	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.05	122.31
1969 .....	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.85
1970 .....	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.44	137.26
1971 .....	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.5	3.65	144.18
1972 .....	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.69
1973 .....	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.3	4.08	160.34
1974 .....	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.39	170.33
1975 .....	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.7	4.73	183.05
1976 .....	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.03	194.66
1977 .....	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.13
1978 .....	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.14
1979 .....	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.93
1980 .....	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.5	6.96	267.96
1981 .....	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.56	291.06
1982 .....	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.09	309.85
1983 .....	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8.55	329.18
1984 .....	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.89	342.27
1985 .....	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.16	351.74
1986 .....	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.35	358.11
1987 .....	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.60	365.76
1988 .....	41.1	10.18	9.72	418.40	39.3	12.32	484.18	38.1	9.94	378.71
1989 .....	41.0	10.47	10.01	429.27	39.4	12.57	495.26	38.1	10.38	395.48
Monthly data, not seasonally adjusted										
<b>1989:</b>										
April .....	41.0	\$10.41	\$9.95	\$426.81	39.8	\$12.51	\$497.90	38.2	\$10.36	\$395.75
May .....	40.9	10.42	9.98	426.18	39.3	12.49	490.86	37.9	10.28	389.61
June .....	41.1	10.44	9.98	429.08	39.6	12.48	494.21	38.1	10.31	392.81
July .....	40.5	10.47	10.02	424.04	39.8	12.58	500.68	38.3	10.40	398.32
August .....	40.8	10.44	9.97	425.95	39.4	12.56	494.86	38.1	10.35	394.34
September .....	41.2	10.55	10.05	434.66	39.4	12.70	500.38	38.1	10.47	398.91
October .....	40.9	10.52	10.04	430.27	39.4	12.69	499.99	38.3	10.50	402.15
November .....	41.1	10.58	10.10	434.84	39.1	12.67	495.40	38.1	10.55	401.96
December .....	41.3	10.67	10.19	440.67	39.3	12.76	501.47	38.2	10.62	405.68
<b>1990:</b>										
January .....	40.6	10.59	10.15	429.95	38.8	12.80	496.64	37.8	10.61	401.06
February .....	40.4	10.66	10.24	430.66	39.0	12.85	501.15	37.8	10.66	402.95
March <sup>p</sup> .....	40.7	10.74	10.29	437.12	39.2	12.81	502.15	37.9	10.65	403.64
April <sup>p</sup> .....	39.7	10.77	10.39	427.57	39.5	12.86	507.97	38.1	10.76	409.96

See footnotes at end of table.



**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

**C-1. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry, 1964 to date—Continued**

Year and month	Retail trade			Finance, insurance, and real estate			Services		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
1964 .....	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965 .....	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
1966 .....	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
1967 .....	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
1968 .....	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
1969 .....	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
1970 .....	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
1971 .....	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
1972 .....	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
1973 .....	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
1974 .....	32.7	3.14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
1975 .....	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
1976 .....	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
1977 .....	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
1978 .....	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
1979 .....	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
1980 .....	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
1981 .....	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
1982 .....	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
1983 .....	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
1984 .....	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
1985 .....	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
1986 .....	29.2	6.03	176.08	36.4	8.36	304.30	32.5	8.18	265.85
1987 .....	29.2	6.12	178.70	36.3	8.73	316.90	32.5	8.49	275.93
1988 .....	29.1	6.31	183.62	35.9	9.09	326.33	32.6	8.91	290.47
1989 .....	28.9	6.54	189.01	35.9	9.57	343.56	32.6	9.39	306.11
Monthly data, not seasonally adjusted									
<b>1989:</b>									
April .....	28.9	\$6.52	\$188.43	36.3	\$9.59	\$348.12	32.8	\$9.34	\$306.35
May .....	28.8	6.49	186.91	35.6	9.48	337.49	32.4	9.30	301.32
June .....	29.2	6.49	189.51	35.8	9.48	339.38	32.7	9.26	302.80
July .....	29.9	6.49	194.05	36.3	9.59	348.12	33.1	9.33	308.82
August .....	29.6	6.50	192.40	35.8	9.50	340.10	32.9	9.29	305.64
September .....	28.9	6.61	191.03	35.7	9.62	343.43	32.6	9.49	309.37
October .....	28.9	6.62	191.32	36.1	9.71	350.53	32.8	9.59	314.55
November .....	28.6	6.64	189.90	35.7	9.69	345.93	32.6	9.61	313.29
December .....	29.2	6.66	194.47	35.7	9.76	348.43	32.5	9.69	314.93
<b>1990:</b>									
January .....	28.1	6.74	189.39	35.7	9.82	350.57	32.4	9.73	315.25
February .....	28.3	6.73	190.46	35.8	9.90	354.42	32.5	9.75	316.88
March <sup>p</sup> .....	28.5	6.75	192.38	35.6	9.87	351.37	32.5	9.75	316.88
April <sup>p</sup> .....	29.0	6.77	196.33	36.2	10.00	362.00	32.7	9.81	320.79

<sup>1</sup> Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>p</sup>	Apr. 1990 <sup>p</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>p</sup>	Apr. 1990 <sup>p</sup>
<b>Total private</b> .....		34.4	34.8	34.3	34.4	34.5	-	-	-	-	-
<b>Mining</b> .....		42.0	42.8	43.2	42.9	43.2	-	-	-	-	-
Metal mining .....	10	42.4	42.6	42.2	41.9	-	-	-	-	-	-
Iron ores .....	101	42.7	43.8	43.5	42.8	-	-	-	-	-	-
Copper ores .....	102	45.0	44.2	45.2	43.8	-	-	-	-	-	-
Coal mining .....	11,12	42.2	43.2	44.2	43.9	-	-	-	-	-	-
Bituminous coal and lignite mining .....	12	42.2	43.3	44.4	44.0	-	-	-	-	-	-
Oil and gas extraction .....	13	41.2	41.7	43.0	42.3	-	-	-	-	-	-
Crude petroleum, natural gas, and natural gas liquids .....	131,2	41.2	42.7	42.4	41.5	-	-	-	-	-	-
Oil and gas field services .....	138	41.1	41.0	43.3	42.7	-	-	-	-	-	-
Nonmetallic minerals, except fuels .....	14	44.0	45.9	43.3	44.1	-	-	-	-	-	-
Crushed and broken stone .....	142	44.4	47.5	43.5	44.7	-	-	-	-	-	-
<b>Construction</b> .....		37.4	37.9	37.2	37.9	37.4	-	-	-	-	-
General building contractors .....	15	37.1	37.5	37.0	37.6	-	-	-	-	-	-
Residential building construction .....	152	35.9	36.5	36.2	36.9	-	-	-	-	-	-
Operative builders .....	153	38.3	38.3	38.0	38.3	-	-	-	-	-	-
Nonresidential building construction .....	154	38.4	38.5	37.9	38.3	-	-	-	-	-	-
Heavy construction contractors .....	16	41.0	41.4	40.9	41.8	-	-	-	-	-	-
Highway and street construction .....	161	40.4	41.2	39.7	40.8	-	-	-	-	-	-
Heavy construction, except highway .....	162	41.3	41.5	41.3	42.2	-	-	-	-	-	-
Special trade contractors .....	17	36.5	37.1	36.3	36.9	-	-	-	-	-	-
Plumbing, heating, and air conditioning .....	171	38.1	38.5	37.7	38.3	-	-	-	-	-	-
Painting, paper hanging, and decorating .....	172	35.4	36.0	35.6	35.8	-	-	-	-	-	-
Electrical work .....	173	38.5	38.6	38.8	39.0	-	-	-	-	-	-
Masonry, stonework, and plastering .....	174	34.7	35.2	34.3	34.8	-	-	-	-	-	-
Carpentering and flooring .....	175	34.7	34.7	34.5	35.2	-	-	-	-	-	-
Roofing and sheet metal work .....	176	32.4	34.2	32.2	33.3	-	-	-	-	-	-
<b>Manufacturing</b> .....		41.0	41.0	40.4	40.7	39.7	3.8	3.8	3.4	3.6	2.9
<b>Durable goods</b> .....		41.7	41.7	41.0	41.4	40.3	4.0	3.9	3.5	3.7	2.8
Lumber and wood products .....	24	39.8	40.5	39.3	40.1	40.2	3.4	3.6	3.2	3.5	-
Logging camps and logging contractors .....	241	39.8	41.8	36.9	39.9	-	4.6	5.2	4.4	5.1	-
Sawmills and planing mills .....	242	41.2	41.6	40.9	41.0	-	4.0	4.2	4.1	4.2	-
Sawmills and planing mills, general .....	2421	41.5	42.0	41.3	41.4	-	4.2	4.5	4.5	4.5	-
Hardwood dimension and flooring .....	2426	40.1	40.0	39.4	39.7	-	3.1	3.2	2.7	2.9	-
Millwork, plywood, and structural members .....	243	39.9	40.2	39.5	40.1	-	3.2	3.3	2.7	3.1	-
Millwork .....	2431	39.1	39.4	39.4	39.2	-	2.1	2.3	1.9	2.3	-
Wood kitchen cabinets .....	2434	39.5	39.5	38.3	40.0	-	3.4	3.2	2.1	3.3	-
Hardwood veneer and plywood .....	2435	40.9	40.5	41.2	41.2	-	3.9	3.6	3.9	3.8	-
Softwood veneer and plywood .....	2436	42.8	44.1	42.3	42.9	-	5.2	6.0	5.0	5.0	-
Wood containers .....	244	38.6	38.8	38.6	39.4	-	3.3	3.5	3.1	3.4	-
Wood buildings and mobile homes .....	245	36.3	37.7	36.1	37.4	-	1.8	2.0	1.0	1.7	-
Mobile homes .....	2451	36.6	37.6	36.4	37.2	-	1.9	1.9	.8	1.6	-
Miscellaneous wood products .....	249	39.2	39.9	39.9	40.0	-	2.9	3.0	2.9	3.0	-
Furniture and fixtures .....	25	39.6	39.3	38.9	39.0	38.3	2.7	2.4	2.3	2.3	-
Household furniture .....	251	39.6	38.9	38.5	38.8	-	2.7	2.2	2.3	2.3	-
Wood household furniture .....	2511	40.0	39.8	39.1	39.3	-	2.8	2.5	2.6	2.4	-
Upholstered household furniture .....	2512	38.8	37.5	37.1	37.3	-	2.2	1.6	1.5	1.8	-
Metal household furniture .....	2514	40.1	40.7	40.8	41.0	-	3.5	3.3	3.3	4.0	-
Mattresses and bedsprings .....	2515	39.8	38.5	39.5	39.3	-	3.2	2.1	3.1	3.0	-
Office furniture .....	252	39.4	39.7	39.6	38.7	-	2.5	2.4	2.1	1.9	-
Public building and related furniture .....	253	38.7	39.6	39.9	39.8	-	2.9	3.7	3.1	3.0	-
Partitions and fixtures .....	254	40.8	40.7	40.0	39.9	-	3.0	3.2	2.4	2.4	-
Miscellaneous furniture and fixtures .....	259	38.5	38.6	38.7	39.2	-	2.0	2.0	1.9	2.3	-
Stone, clay, and glass products .....	32	41.9	42.6	41.0	41.6	42.1	4.8	5.1	4.3	4.7	-
Flat glass .....	321	44.6	44.8	42.9	43.3	-	6.8	6.6	5.2	5.8	-
Glass and glassware, pressed or blown .....	322	41.7	42.3	41.4	41.4	-	4.5	4.6	4.5	4.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Total private</b> .....		\$9.56	\$9.62	\$9.91	\$9.93	\$9.97	\$328.86	\$334.78	\$339.91	\$341.59	\$343.97
<b>Mining</b> .....		13.15	13.19	13.30	13.39	13.48	552.30	564.53	574.56	574.43	582.34
Metal mining .....	10	13.71	13.68	13.75	13.78	-	581.30	582.77	580.25	577.38	-
Iron ores .....	101	14.03	14.16	13.66	13.78	-	599.08	621.08	594.21	589.78	-
Copper ores .....	102	11.83	11.56	11.94	12.33	-	532.35	510.95	539.69	540.05	-
Coal mining .....	11,12	16.23	16.17	16.55	16.47	-	684.91	698.54	731.51	723.03	-
Bituminous coal and lignite mining .....	12	16.29	16.23	16.62	16.53	-	687.44	702.76	737.93	727.32	-
Oil and gas extraction .....	13	12.29	12.45	12.38	12.54	-	506.35	519.17	532.34	530.44	-
Crude petroleum, natural gas, and natural gas liquids .....	131,2	14.93	15.11	15.60	15.84	-	615.12	645.20	661.44	657.36	-
Oil and gas field services .....	138	10.67	10.78	10.73	10.85	-	438.54	441.98	464.61	463.30	-
Nonmetallic minerals, except fuels .....	14	11.06	11.15	11.29	11.42	-	486.64	511.79	488.86	503.62	-
Crushed and broken stone .....	142	10.42	10.64	10.65	10.82	-	462.65	505.40	463.28	483.65	-
<b>Construction</b> .....		13.26	13.30	13.42	13.47	13.38	495.92	504.07	499.22	510.51	500.41
General building contractors .....	15	12.50	12.54	12.75	12.76	-	463.75	470.25	471.75	479.78	-
Residential building construction .....	152	11.89	11.95	12.25	12.22	-	426.85	436.18	443.45	450.92	-
Operative builders .....	153	11.73	11.85	12.69	12.72	-	449.26	453.86	482.22	487.18	-
Nonresidential building construction .....	154	13.19	13.22	13.30	13.36	-	506.50	508.97	504.07	511.69	-
Heavy construction contractors .....	16	12.65	12.87	12.71	12.90	-	518.65	532.82	519.84	539.22	-
Highway and street construction .....	161	11.97	12.36	12.17	12.29	-	483.59	509.23	483.15	501.43	-
Heavy construction, except highway .....	162	12.90	13.08	12.88	13.11	-	532.77	542.82	531.94	553.24	-
Special trade contractors .....	17	13.76	13.73	13.91	13.94	-	502.24	509.38	504.93	514.39	-
Plumbing, heating, and air conditioning .....	171	14.16	14.21	14.30	14.34	-	539.50	547.09	539.11	549.22	-
Painting, paper hanging, and decorating .....	172	12.91	12.84	13.21	13.13	-	457.01	462.24	470.28	470.05	-
Electrical work .....	173	14.67	14.70	14.80	14.89	-	564.80	567.42	574.24	580.71	-
Masonry, stonework, and plastering .....	174	13.87	13.90	14.03	14.21	-	481.29	489.28	481.23	494.51	-
Carpentering and flooring .....	175	13.28	13.14	13.27	13.16	-	460.82	455.96	457.82	463.23	-
Roofing and sheet metal work .....	176	11.99	12.06	12.16	12.22	-	388.48	412.45	391.55	406.93	-
<b>Manufacturing</b> .....		10.41	10.41	10.66	10.74	10.77	426.81	426.81	430.66	437.12	427.57
<b>Durable goods</b> .....		10.93	10.93	11.17	11.24	11.25	455.78	455.78	457.97	465.34	453.38
Lumber and wood products .....	24	8.68	8.76	8.96	9.05	9.08	345.46	354.78	352.13	362.91	365.02
Logging camps and logging contractors .....	241	10.70	10.99	10.81	11.12	-	425.86	459.38	398.89	443.69	-
Sawmills and planing mills .....	242	8.90	8.98	9.21	9.23	-	366.68	373.57	376.69	378.43	-
Sawmills and planing mills, general .....	2421	9.22	9.32	9.56	9.58	-	382.63	391.44	394.83	396.61	-
Hardwood dimension and flooring .....	2426	7.31	7.30	7.46	7.53	-	293.13	292.00	293.92	298.94	-
Millwork, plywood, and structural members .....	243	8.64	8.73	9.02	9.10	-	344.74	350.95	356.29	364.91	-
Millwork .....	2431	8.76	8.88	9.35	9.38	-	342.52	349.87	368.39	367.70	-
Wood kitchen cabinets .....	2434	8.09	8.16	8.35	8.56	-	319.56	322.32	319.81	342.40	-
Hardwood veneer and plywood .....	2435	7.23	7.28	7.58	7.57	-	295.71	294.84	312.30	311.88	-
Softwood veneer and plywood .....	2436	10.16	10.24	10.32	10.34	-	434.85	451.58	436.54	443.59	-
Wood containers .....	244	6.48	6.51	6.62	6.62	-	250.13	252.59	255.53	260.83	-
Wood buildings and mobile homes .....	245	8.32	8.23	8.36	8.53	-	302.02	310.27	301.80	319.02	-
Mobile homes .....	2451	8.43	8.32	8.40	8.64	-	308.54	312.83	305.76	321.41	-
Miscellaneous wood products .....	249	7.53	7.59	7.90	7.90	-	295.18	302.84	315.21	316.00	-
Furniture and fixtures .....	25	8.13	8.12	8.39	8.41	8.42	321.95	319.12	326.37	327.99	322.49
Household furniture .....	251	7.53	7.48	7.80	7.84	-	298.19	290.97	300.30	304.19	-
Wood household furniture .....	2511	7.04	7.02	7.32	7.31	-	281.60	279.40	286.21	287.28	-
Upholstered household furniture .....	2512	8.30	8.23	8.53	8.61	-	322.04	308.63	316.46	321.15	-
Metal household furniture .....	2514	7.21	7.35	7.71	7.82	-	289.12	299.15	314.57	320.62	-
Mattresses and bedsprings .....	2515	8.05	7.81	8.26	8.27	-	320.39	300.69	326.27	325.01	-
Office furniture .....	252	9.17	9.10	9.31	9.32	-	361.30	361.27	368.68	360.68	-
Public building and related furniture .....	253	8.66	8.82	8.97	8.93	-	335.14	349.27	357.90	355.41	-
Partitions and fixtures .....	254	9.56	9.65	9.75	9.74	-	390.05	392.76	390.00	388.63	-
Miscellaneous furniture and fixtures .....	259	8.46	8.41	8.63	8.65	-	325.71	324.63	333.98	339.08	-
Stone, clay, and glass products .....	32	10.62	10.71	10.85	10.94	11.16	444.98	456.25	444.85	455.10	469.84
Flat glass .....	321	15.22	15.17	14.75	15.12	-	678.81	679.62	632.78	654.70	-
Glass and glassware, pressed or blown .....	322	11.81	12.03	12.15	12.15	-	492.48	508.87	503.01	503.01	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers' on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
<b>Stone, clay, and glass products—Continued</b>											
Glass containers .....	3221	41.9	42.6	41.6	41.7	-	5.1	5.5	5.3	5.2	-
Pressed and blown glass, nec .....	3229	41.6	41.9	41.2	41.0	-	3.8	3.7	3.5	3.6	-
Products of purchased glass .....	323	41.9	41.5	39.8	40.3	-	3.2	3.1	2.2	3.0	-
Cement, hydraulic .....	324	43.4	42.5	42.8	42.9	-	4.6	3.8	5.4	5.1	-
Structural clay products .....	325	41.9	41.9	40.5	40.7	-	4.0	3.9	3.3	3.5	-
Pottery and related products .....	326	40.6	40.9	40.0	39.7	-	3.5	3.3	2.7	2.6	-
Concrete, gypsum, and plaster products .....	327	42.0	43.6	40.7	42.0	-	6.1	6.7	5.2	5.8	-
Concrete block and brick .....	3271	42.9	44.4	43.2	44.4	-	5.9	6.6	6.0	6.9	-
Concrete products, nec .....	3272	42.7	43.5	41.9	42.7	-	5.9	6.2	5.3	5.5	-
Ready-mixed concrete .....	3273	40.2	42.7	38.1	40.2	-	5.7	6.8	4.3	5.4	-
Misc. nonmetallic mineral products .....	329	42.2	42.4	42.1	42.4	-	4.6	4.7	4.5	4.6	-
Abrasive products .....	3291	43.7	43.3	42.7	42.5	-	4.5	3.9	3.4	3.5	-
Asbestos products .....	3292	41.6	43.0	40.5	40.6	-	4.8	6.3	4.0	4.1	-
Primary metal industries .....	33	43.5	43.2	42.3	42.6	41.6	5.5	5.3	4.6	4.9	-
Blast furnaces and basic steel products .....	331	44.0	43.6	42.7	42.9	42.9	5.8	5.6	5.2	5.2	-
Blast furnaces and steel mills .....	3312	44.3	44.0	42.8	42.9	-	6.0	5.8	5.2	5.2	-
Steel pipe and tubes .....	3317	41.6	41.6	43.4	44.0	-	4.4	4.3	6.1	6.3	-
Iron and steel foundries .....	332	43.2	42.9	41.8	42.2	-	5.3	5.2	4.1	4.6	-
Gray iron foundries .....	3321	43.3	43.1	41.8	42.4	-	5.7	5.5	4.3	4.9	-
Malleable iron foundries .....	3322	42.3	43.1	40.0	40.7	-	4.0	4.2	3.2	3.3	-
Steel foundries, nec .....	3325	42.8	42.4	41.7	41.8	-	4.6	4.6	4.1	4.3	-
Primary nonferrous metals .....	333	43.5	43.4	43.6	43.9	-	4.7	5.1	4.7	4.9	-
Primary aluminum .....	3334	43.6	43.5	43.0	43.4	-	4.9	5.3	4.5	5.0	-
Nonferrous rolling and drawing .....	335	43.8	43.7	43.2	43.5	-	6.1	5.9	5.5	5.6	-
Copper rolling and drawing .....	3351	44.0	43.0	44.0	43.9	-	5.5	4.8	6.1	5.8	-
Aluminum sheet, plate, and foil .....	3353	45.6	44.8	44.3	44.4	-	8.4	7.4	7.6	7.5	-
Nonferrous wire drawing and insulating .....	3357	42.5	42.8	42.2	42.5	-	5.2	5.3	4.5	4.9	-
Nonferrous foundries .....	336	41.9	42.0	39.7	40.4	-	4.1	4.1	2.8	3.2	-
Aluminum foundries .....	3361	42.2	42.4	39.5	40.4	-	4.2	4.1	2.6	3.1	-
Fabricated metal products .....	34	41.7	41.7	41.1	41.6	39.9	4.0	3.8	3.5	3.7	-
Metal cans and shipping containers .....	341	44.0	43.8	43.6	43.6	-	5.3	5.6	4.8	5.1	-
Metal cans .....	3411	44.4	44.1	43.9	43.9	-	5.4	5.5	4.9	5.2	-
Cutlery, hand tools, and hardware .....	342	41.2	41.0	40.9	41.2	-	3.2	3.0	2.9	3.1	-
Hand and edge tools, and hand saws and blades ..	3423,5	41.4	41.0	40.8	41.2	-	3.0	2.8	2.8	3.1	-
Hardware, nec .....	3429	40.8	40.7	40.3	40.5	-	3.1	2.9	2.6	2.8	-
Plumbing and heating, except electric .....	343	40.6	40.8	40.8	41.7	-	3.2	3.3	3.3	3.4	-
Plumbing fittings and brass goods .....	3432	41.7	41.8	41.2	42.7	-	3.8	3.9	3.3	3.8	-
Heating equipment, except electric .....	3433	39.1	39.5	38.9	39.5	-	2.3	2.7	2.2	1.9	-
Fabricated structural metal products .....	344	40.7	41.0	40.6	40.8	-	3.7	3.6	3.4	3.5	-
Fabricated structural metal .....	3441	41.0	41.6	41.7	42.0	-	4.2	4.2	3.8	3.8	-
Metal doors, sash, and trim .....	3442	39.0	40.1	38.2	39.4	-	2.6	2.8	1.6	2.3	-
Fabricated plate work (boiler shops) .....	3443	42.5	42.2	42.3	42.2	-	4.4	4.1	4.7	4.6	-
Sheet metal work .....	3444	40.0	40.3	39.9	40.3	-	3.1	3.0	2.8	3.0	-
Architectural metal work .....	3446	40.4	40.7	39.2	38.7	-	4.4	4.3	3.7	3.4	-
Screw machine products, bolts, etc .....	345	43.5	42.8	41.7	42.3	-	5.6	5.0	4.1	4.5	-
Screw machine products .....	3451	42.1	41.6	40.3	40.9	-	4.7	4.1	3.2	3.6	-
Bolts, nuts, rivets, and washers .....	3452	45.0	44.2	43.3	43.8	-	6.6	6.1	5.1	5.5	-
Metal forgings and stampings .....	346	43.0	42.9	41.2	42.5	-	4.9	4.7	3.3	4.1	-
Iron and steel forgings .....	3462	44.2	43.7	41.9	42.5	-	5.7	5.1	3.7	4.2	-
Automotive stampings .....	3465	44.3	44.2	40.6	43.4	-	5.4	5.5	2.8	4.5	-
Metal stampings, nec .....	3469	40.5	40.6	41.5	41.4	-	3.6	3.4	3.8	3.7	-
Metal services, nec .....	347	41.4	41.4	40.7	40.9	-	3.8	3.7	3.6	3.7	-
Plating and polishing .....	3471	41.5	41.4	39.9	40.3	-	3.9	3.7	3.0	3.2	-
Metal coating and allied services .....	3479	41.3	41.3	42.2	42.0	-	3.7	3.7	4.7	4.5	-
Ordnance and accessories, nec .....	348	41.3	41.9	42.0	41.4	-	2.8	2.8	3.4	3.2	-
Ammunition, except for small arms, nec .....	3483	41.2	41.7	40.3	40.3	-	2.5	2.4	2.7	2.6	-
Misc. fabricated metal products .....	349	41.4	41.2	41.6	41.7	-	3.6	3.3	3.7	3.6	-
Valves and pipe fittings .....	3494	42.1	42.1	43.3	42.6	-	3.8	3.5	4.2	3.7	-
Misc. fabricated wire products .....	3496	40.0	39.5	40.0	40.2	-	3.2	3.1	3.0	3.1	-
Machinery, except electrical .....	35	42.6	42.5	42.1	42.1	40.6	4.5	4.3	4.0	4.0	-
Engines and turbines .....	351	43.3	43.3	43.7	43.2	-	4.3	3.7	4.9	4.4	-
Turbines and turbine generator sets .....	3511	43.5	42.9	43.7	43.6	-	5.7	5.1	5.0	5.2	-
Internal combustion engines, nec .....	3519	43.3	43.4	43.7	43.1	-	3.8	3.2	4.8	4.1	-
Farm and garden machinery .....	352	42.4	42.1	43.0	42.4	-	4.5	4.4	4.5	4.7	-
Farm machinery and equipment .....	3523	42.8	42.8	42.4	41.8	-	5.0	5.0	4.4	4.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
Stone, clay, and glass products—Continued											
Glass containers .....	3221	\$12.21	\$12.64	\$12.76	\$12.75	-	\$511.60	\$538.46	\$530.82	\$531.68	-
Pressed and blown glass, nec .....	3229	11.36	11.35	11.46	11.47	-	472.58	475.57	472.15	470.27	-
Products of purchased glass .....	323	9.35	9.36	9.38	9.55	-	391.77	388.44	373.32	384.87	-
Cement, hydraulic .....	324	13.63	13.66	13.95	13.95	-	591.54	580.55	597.06	598.46	-
Structural clay products .....	325	9.14	9.14	9.46	9.48	-	382.97	382.97	383.13	385.84	-
Pottery and related products .....	326	9.51	9.50	9.63	9.67	-	386.11	388.55	385.20	383.90	-
Concrete, gypsum, and plaster products .....	327	10.35	10.50	10.53	10.71	-	434.70	457.80	428.57	449.82	-
Concrete block and brick .....	3271	9.52	9.66	9.54	9.64	-	408.41	428.90	412.13	428.02	-
Concrete products, nec .....	3272	9.33	9.42	9.50	9.63	-	398.39	409.77	398.05	411.20	-
Ready-mixed concrete .....	3273	11.24	11.39	11.48	11.66	-	451.85	486.35	437.39	468.73	-
Misc. nonmetallic mineral products .....	329	10.62	10.67	10.91	10.94	-	448.16	452.41	459.31	463.86	-
Abrasive products .....	3291	10.22	10.22	10.32	10.25	-	446.61	442.53	440.66	435.63	-
Asbestos products .....	3292	10.99	11.18	10.72	10.84	-	457.18	480.74	434.16	440.10	-
Primary metal industries .....	33	12.27	12.26	12.60	12.66	\$13.03	533.75	529.63	532.98	539.32	\$542.05
Blast furnaces and basic steel products .....	331	14.13	14.06	14.59	14.54	15.37	621.72	613.02	622.99	623.77	659.37
Blast furnaces and steel mills .....	3312	14.91	14.81	15.41	15.34	-	660.51	651.64	659.55	658.09	-
Steel pipe and tubes .....	3317	10.84	10.83	11.60	11.63	-	450.94	450.53	503.44	511.72	-
Iron and steel foundries .....	332	11.13	11.14	11.31	11.49	-	480.82	477.91	472.76	484.88	-
Gray iron foundries .....	3321	11.68	11.66	11.73	12.00	-	505.74	502.55	490.31	508.80	-
Malleable iron foundries .....	3322	11.93	12.15	12.21	12.46	-	504.64	523.67	488.40	507.12	-
Steel foundries, nec .....	3325	10.26	10.27	10.93	10.90	-	439.13	435.45	455.78	455.62	-
Primary nonferrous metals .....	333	13.51	13.65	13.98	14.02	-	587.69	592.41	609.53	615.48	-
Primary aluminum .....	3334	13.75	13.96	14.28	14.37	-	599.50	607.26	614.04	623.66	-
Nonferrous rolling and drawing .....	335	11.78	11.79	11.90	12.08	-	515.96	515.22	514.08	525.48	-
Copper rolling and drawing .....	3351	11.09	11.08	11.31	11.47	-	487.96	476.44	497.64	503.53	-
Aluminum sheet, plate, and foil .....	3353	14.10	14.00	14.78	14.87	-	642.96	627.20	654.75	660.23	-
Nonferrous wire drawing and insulating .....	3357	11.90	11.94	11.66	11.93	-	505.75	511.03	492.05	507.03	-
Nonferrous foundries .....	336	9.70	9.72	10.08	10.14	-	406.43	408.24	400.18	409.66	-
Aluminum foundries .....	3361	9.91	9.92	10.34	10.40	-	418.20	420.61	408.43	420.16	-
Fabricated metal products .....	34	10.47	10.48	10.66	10.74	10.69	436.60	437.02	438.13	446.78	426.53
Metal cans and shipping containers .....	341	13.68	13.74	14.03	14.13	-	601.92	601.81	611.71	616.07	-
Metal cans .....	3411	14.58	14.67	14.91	15.02	-	647.35	646.95	654.55	659.38	-
Cutlery, hand tools, and hardware .....	342	10.30	10.40	10.68	10.82	-	424.36	426.40	436.81	445.78	-
Hand and edge tools, and hand saws and blades .....	3423,5	9.55	9.58	9.91	9.97	-	395.37	392.78	404.33	410.76	-
Hardware, nec .....	3429	10.64	10.78	11.00	11.21	-	434.11	438.75	443.30	454.01	-
Plumbing and heating, except electric .....	343	9.41	9.43	9.74	9.72	-	382.05	384.74	397.39	405.32	-
Plumbing fittings and brass goods .....	3432	9.06	9.12	9.43	9.44	-	377.80	381.22	388.52	403.09	-
Heating equipment, except electric .....	3433	9.28	9.29	9.57	9.54	-	362.85	366.96	372.27	376.83	-
Fabricated structural metal products .....	344	9.85	9.84	10.08	10.08	-	400.90	403.44	409.25	411.26	-
Fabricated structural metal .....	3441	10.39	10.42	10.27	10.26	-	425.99	433.47	428.26	430.92	-
Metal doors, sash, and trim .....	3442	8.34	8.32	8.49	8.61	-	325.26	333.63	324.32	339.23	-
Fabricated plate work (boiler shops) .....	3443	10.46	10.44	10.99	10.98	-	444.55	440.57	464.88	463.36	-
Sheet metal work .....	3444	10.18	10.12	10.33	10.31	-	407.20	407.84	412.17	415.49	-
Architectural metal work .....	3446	9.08	9.27	9.56	9.68	-	366.83	377.29	374.75	374.62	-
Screw machine products, bolts, etc .....	345	10.24	10.25	10.46	10.49	-	445.44	438.70	436.18	443.73	-
Screw machine products .....	3451	9.60	9.57	9.89	9.95	-	404.16	398.11	398.57	406.96	-
Bolts, nuts, rivets, and washers .....	3452	10.92	10.98	11.03	11.05	-	491.40	485.32	477.60	483.99	-
Metal forgings and stampings .....	346	12.52	12.58	12.47	12.71	-	538.36	539.68	513.76	540.18	-
Iron and steel forgings .....	3462	13.38	13.23	12.92	13.08	-	591.40	578.15	541.35	555.90	-
Automotive stampings .....	3465	14.05	14.25	14.23	14.54	-	622.42	629.85	577.74	631.04	-
Metal stampings, nec .....	3469	9.65	9.68	10.08	10.02	-	390.83	393.01	418.32	414.83	-
Metal services, nec .....	347	8.45	8.45	8.82	8.89	-	349.83	349.83	358.97	363.60	-
Plating and polishing .....	3471	8.44	8.38	8.74	8.79	-	350.26	346.93	348.73	354.24	-
Metal coating and allied services .....	3479	8.46	8.59	8.95	9.06	-	349.40	354.77	377.69	380.52	-
Ordnance and accessories, nec .....	348	11.58	11.55	11.90	11.85	-	478.25	483.95	499.80	490.59	-
Ammunition, except for small arms, nec .....	3483	11.26	11.37	11.54	11.50	-	463.91	474.13	465.06	463.45	-
Misc. fabricated metal products .....	349	9.66	9.65	9.95	9.94	-	399.92	397.58	413.92	414.50	-
Valves and pipe fittings .....	3494	10.54	10.46	10.70	10.65	-	443.73	440.37	463.31	453.69	-
Misc. fabricated wire products .....	3496	8.61	8.68	8.73	8.75	-	344.40	342.36	349.20	351.75	-
Machinery, except electrical .....	35	11.25	11.26	11.53	11.57	11.53	479.25	478.55	485.41	487.10	468.12
Engines and turbines .....	351	13.94	13.97	14.37	14.42	-	603.60	604.90	627.97	622.94	-
Turbines and turbine generator sets .....	3511	14.10	14.18	14.56	14.66	-	613.35	608.32	636.27	639.18	-
Internal combustion engines, nec .....	3519	13.89	13.90	14.30	14.34	-	601.44	603.26	624.91	618.05	-
Farm and garden machinery .....	352	10.40	10.32	10.44	10.51	-	440.96	434.47	448.92	445.62	-
Farm machinery and equipment .....	3523	11.33	11.18	11.62	11.69	-	484.92	478.50	492.69	488.64	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
<b>Machinery, except electrical—Continued</b>											
Construction and related machinery .....	353	42.8	42.5	42.8	42.9	-	4.3	4.1	4.2	4.2	-
Construction machinery .....	3531	43.2	43.0	43.7	43.5	-	4.6	4.4	4.4	4.4	-
Mining machinery .....	3532	42.1	42.0	42.2	42.8	-	4.5	3.9	4.3	4.9	-
Oil field machinery .....	3533	42.8	41.7	44.6	45.5	-	4.6	4.2	6.2	6.0	-
Conveyors and conveying equipment .....	3535	43.1	43.6	41.4	41.4	-	5.4	5.5	4.1	4.2	-
Industrial trucks and tractors .....	3537	41.1	40.9	40.7	40.4	-	2.8	2.9	2.5	2.1	-
<b>Metalworking machinery .....</b>	<b>354</b>	<b>43.9</b>	<b>43.6</b>	<b>42.7</b>	<b>42.7</b>	<b>-</b>	<b>5.7</b>	<b>5.5</b>	<b>4.8</b>	<b>4.7</b>	<b>-</b>
Machine tools, metal cutting types .....	3541	44.8	44.2	42.5	42.3	-	5.6	5.3	4.3	4.3	-
Machine tools, metal forming types .....	3542	44.3	44.1	43.6	42.9	-	6.3	5.6	5.8	5.3	-
Special dies, tools, jigs, and fixtures .....	3544	44.2	44.1	43.4	43.4	-	6.2	6.1	5.5	5.5	-
Machine tool accessories .....	3545	42.7	42.4	41.5	41.6	-	4.9	4.9	3.7	3.6	-
Power driven hand tools .....	3546	43.3	43.1	42.0	41.8	-	4.5	3.9	3.4	2.9	-
<b>Special industry machinery .....</b>	<b>355</b>	<b>42.3</b>	<b>42.3</b>	<b>42.5</b>	<b>42.6</b>	<b>-</b>	<b>4.8</b>	<b>4.6</b>	<b>4.4</b>	<b>4.3</b>	<b>-</b>
Food products machinery .....	3551	42.0	42.3	41.6	41.9	-	4.3	4.3	3.6	3.8	-
Textile machinery .....	3552	42.8	42.8	43.1	42.6	-	4.0	3.9	4.1	3.8	-
Printing trades machinery .....	3555	39.4	39.1	40.3	39.9	-	4.7	4.1	4.2	4.1	-
<b>General industrial machinery .....</b>	<b>356</b>	<b>43.0</b>	<b>42.7</b>	<b>41.8</b>	<b>41.7</b>	<b>-</b>	<b>4.7</b>	<b>4.4</b>	<b>4.0</b>	<b>3.9</b>	<b>-</b>
Pumps and pumping equipment .....	3561	42.9	42.4	41.7	41.7	-	4.4	4.2	4.7	4.5	-
Ball and roller bearings .....	3562	44.5	43.7	42.7	42.2	-	6.2	5.7	4.3	4.6	-
Air and gas compressors .....	3563	42.9	43.5	43.4	43.4	-	4.3	4.3	4.4	4.4	-
Blowers and fans .....	3564	41.0	41.1	39.4	39.2	-	2.6	2.9	2.2	1.8	-
Speed changers, drives, and gears .....	3566	43.6	42.7	41.8	42.1	-	5.3	5.1	4.4	4.9	-
Power transmission equipment, nec .....	3568	42.6	42.7	43.2	43.0	-	4.6	4.7	4.5	4.4	-
<b>Office and computing machines .....</b>	<b>357</b>	<b>42.0</b>	<b>41.8</b>	<b>41.2</b>	<b>41.5</b>	<b>-</b>	<b>3.3</b>	<b>2.8</b>	<b>3.0</b>	<b>3.1</b>	<b>-</b>
Electronic computing equipment .....	3573	42.0	41.9	41.5	41.9	-	3.3	2.7	3.2	3.1	-
Refrigeration and service machinery .....	358	41.5	41.6	40.8	40.3	-	3.5	3.2	2.5	2.4	-
Refrigeration and heating equipment .....	3585	42.0	42.2	41.0	40.4	-	3.8	3.7	2.6	2.4	-
<b>Misc. machinery, except electrical .....</b>	<b>359</b>	<b>42.1</b>	<b>42.1</b>	<b>41.5</b>	<b>42.0</b>	<b>-</b>	<b>4.7</b>	<b>4.5</b>	<b>4.2</b>	<b>4.3</b>	<b>-</b>
Carburetors, pistons, rings, and valves .....	3592	43.1	43.2	40.5	41.4	-	5.1	4.7	2.7	3.5	-
Machinery, except electrical, nec .....	3599	42.0	41.9	41.6	42.0	-	4.7	4.5	4.3	4.4	-
<b>Electrical and electronic equipment .....</b>	<b>36</b>	<b>40.5</b>	<b>40.7</b>	<b>40.8</b>	<b>40.9</b>	<b>39.7</b>	<b>3.0</b>	<b>2.9</b>	<b>3.0</b>	<b>3.0</b>	<b>-</b>
Electric distributing equipment .....	361	41.8	41.4	41.7	41.4	-	3.2	2.8	2.9	2.8	-
Transformers .....	3612	42.2	41.8	42.2	41.7	-	3.3	3.0	3.2	3.1	-
Switchgear and switchboard apparatus .....	3613	41.4	41.1	41.2	41.1	-	3.1	2.6	2.6	2.6	-
<b>Electrical industrial apparatus .....</b>	<b>362</b>	<b>41.6</b>	<b>41.8</b>	<b>41.7</b>	<b>41.5</b>	<b>-</b>	<b>3.5</b>	<b>3.7</b>	<b>3.4</b>	<b>3.3</b>	<b>-</b>
Motors and generators .....	3621	41.6	41.9	41.5	41.1	-	3.9	4.0	3.4	3.4	-
Industrial controls .....	3622	40.6	40.3	40.8	40.6	-	2.4	2.5	2.4	2.2	-
<b>Household appliances .....</b>	<b>363</b>	<b>38.5</b>	<b>39.6</b>	<b>39.7</b>	<b>39.6</b>	<b>-</b>	<b>2.6</b>	<b>2.8</b>	<b>2.5</b>	<b>2.1</b>	<b>-</b>
Household refrigerators and freezers .....	3632	39.2	39.8	38.5	38.6	-	3.8	3.5	2.3	2.5	-
Household laundry equipment .....	3633	39.7	40.9	41.5	40.3	-	2.0	2.3	3.2	1.7	-
Electric housewares and fans .....	3634	38.9	40.2	39.7	40.3	-	2.5	2.8	1.7	1.9	-
<b>Electric lighting and wiring equipment .....</b>	<b>364</b>	<b>39.9</b>	<b>40.0</b>	<b>40.3</b>	<b>40.2</b>	<b>-</b>	<b>2.7</b>	<b>2.6</b>	<b>2.9</b>	<b>3.0</b>	<b>-</b>
Electric lamps .....	3641	41.5	41.4	41.1	40.8	-	3.5	3.2	3.1	3.1	-
Current-carrying wiring devices .....	3643	39.3	39.9	40.2	40.0	-	2.3	2.6	3.1	3.0	-
Noncurrent-carrying wiring devices .....	3644	40.2	40.2	40.7	41.5	-	3.2	3.0	2.2	2.7	-
Residential lighting fixtures .....	3645	38.5	37.2	39.0	39.2	-	1.9	1.4	2.4	2.5	-
<b>Radio and TV receiving equipment .....</b>	<b>365</b>	<b>40.6</b>	<b>39.9</b>	<b>39.8</b>	<b>40.8</b>	<b>-</b>	<b>3.3</b>	<b>3.3</b>	<b>2.1</b>	<b>3.2</b>	<b>-</b>
Radio and TV receiving sets .....	3651	40.1	39.8	40.1	40.3	-	3.0	2.9	1.2	1.9	-
<b>Communication equipment .....</b>	<b>366</b>	<b>40.8</b>	<b>41.1</b>	<b>41.7</b>	<b>42.0</b>	<b>-</b>	<b>2.5</b>	<b>2.3</b>	<b>2.4</b>	<b>2.4</b>	<b>-</b>
Telephone and telegraph apparatus .....	3661	41.7	41.8	44.2	45.1	-	3.3	2.7	2.5	2.5	-
Radio and TV communication equipment .....	3662	40.4	40.8	40.7	40.8	-	2.2	2.2	2.3	2.4	-
<b>Electronic components and accessories .....</b>	<b>367</b>	<b>40.0</b>	<b>40.3</b>	<b>40.7</b>	<b>40.9</b>	<b>-</b>	<b>3.1</b>	<b>3.0</b>	<b>3.6</b>	<b>3.6</b>	<b>-</b>
Electronic tubes .....	3671-3	41.0	40.4	41.6	41.0	-	4.1	3.5	3.5	3.2	-
Semiconductors and related devices .....	3674	39.5	40.0	40.6	40.7	-	3.6	3.6	4.3	4.3	-
Electronic components, nec .....	3679	40.5	40.8	41.2	41.5	-	3.0	3.0	3.6	3.6	-
<b>Misc. electrical equipment and supplies .....</b>	<b>369</b>	<b>41.7</b>	<b>41.9</b>	<b>40.3</b>	<b>40.5</b>	<b>-</b>	<b>3.5</b>	<b>3.4</b>	<b>2.7</b>	<b>2.8</b>	<b>-</b>
Storage batteries .....	3691	40.3	41.6	39.7	39.9	-	2.1	2.5	2.1	2.0	-
Engine electrical equipment .....	3694	42.3	42.3	40.2	40.6	-	4.7	4.4	2.8	3.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
<b>Machinery, except electrical—Continued</b>											
Construction and related machinery .....	353	\$11.28	\$11.33	\$11.61	\$11.65	-	\$482.78	\$481.53	\$496.91	\$499.79	-
Construction machinery .....	3531	12.66	12.67	12.92	12.96	-	546.91	544.81	564.60	563.76	-
Mining machinery .....	3532	11.35	11.21	11.65	11.76	-	477.84	470.82	491.63	503.33	-
Oil field machinery .....	3533	10.83	11.08	11.29	11.18	-	463.52	462.04	503.53	508.69	-
Conveyors and conveying equipment .....	3535	10.37	10.33	10.47	10.53	-	446.95	450.39	433.46	435.94	-
Industrial trucks and tractors .....	3537	9.91	9.98	10.24	10.26	-	407.30	408.18	416.77	414.50	-
Metalworking machinery .....	354	11.69	11.72	11.98	12.00	-	513.19	510.99	511.55	512.40	-
Machine tools, metal cutting types .....	3541	11.60	11.60	11.91	12.00	-	519.68	512.72	506.18	507.60	-
Machine tools, metal forming types .....	3542	12.08	12.12	12.39	12.33	-	535.14	534.49	540.20	528.96	-
Special dies, tools, jigs, and fixtures .....	3544	12.51	12.52	12.79	12.77	-	552.94	552.13	555.09	554.22	-
Machine tool accessories .....	3545	10.51	10.62	10.63	10.73	-	448.78	450.29	441.15	446.37	-
Power driven hand tools .....	3546	9.35	9.33	9.70	9.74	-	404.86	402.12	407.40	407.13	-
Special industry machinery .....	355	11.43	11.47	11.73	11.82	-	483.49	485.18	498.53	503.53	-
Food products machinery .....	3551	11.42	11.51	11.78	11.86	-	479.64	486.87	490.05	496.93	-
Textile machinery .....	3552	9.57	9.56	10.00	9.99	-	409.60	409.17	431.00	425.57	-
Printing trades machinery .....	3555	12.52	12.48	12.76	12.73	-	493.29	487.97	514.23	507.93	-
General industrial machinery .....	356	10.82	10.82	11.27	11.32	-	465.26	462.01	471.09	472.04	-
Pumps and pumping equipment .....	3561	11.42	11.37	11.94	11.93	-	489.92	482.09	497.90	497.48	-
Ball and roller bearings .....	3562	11.32	11.27	11.64	11.79	-	503.74	492.50	497.03	497.54	-
Air and gas compressors .....	3563	10.57	10.51	11.41	11.57	-	453.45	457.19	495.19	502.14	-
Blowers and fans .....	3564	9.53	9.61	9.97	9.90	-	390.73	394.97	392.82	388.08	-
Speed changers, drives, and gears .....	3566	11.06	11.15	11.47	11.59	-	482.22	476.11	479.45	487.94	-
Power transmission equipment, nec .....	3568	10.31	10.32	10.56	10.63	-	439.21	440.66	456.19	457.09	-
Office and computing machines .....	357	10.97	11.01	11.31	11.37	-	460.74	460.22	465.97	471.86	-
Electronic computing equipment .....	3573	10.94	10.98	11.22	11.26	-	459.48	460.06	465.63	471.79	-
Refrigeration and service machinery .....	358	10.74	10.69	10.75	10.85	-	445.71	444.70	438.60	437.26	-
Refrigeration and heating equipment .....	3585	10.92	10.91	10.85	10.98	-	458.64	460.40	444.85	443.59	-
Misc. machinery, except electrical .....	359	10.96	10.97	11.23	11.22	-	461.42	461.84	466.05	471.24	-
Carburetors, pistons, rings, and valves .....	3592	13.27	13.15	12.88	13.03	-	571.94	568.08	521.64	539.44	-
Machinery, except electrical, nec .....	3599	10.65	10.67	11.03	11.00	-	447.30	447.07	458.85	462.00	-
Electrical and electronic equipment .....	36	10.30	10.31	10.54	10.58	\$10.58	417.15	419.62	430.03	432.72	\$420.03
Electric distributing equipment .....	361	9.40	9.41	9.96	9.96	-	392.92	389.57	415.33	412.34	-
Transformers .....	3612	9.22	9.21	9.73	9.70	-	389.08	384.98	410.61	404.49	-
Switchgear and switchboard apparatus .....	3613	9.58	9.62	10.18	10.22	-	396.61	395.38	419.42	420.04	-
Electrical industrial apparatus .....	362	10.07	10.09	10.18	10.20	-	418.91	421.76	424.51	423.30	-
Motors and generators .....	3621	10.08	10.10	10.00	10.04	-	419.33	423.19	415.00	412.64	-
Industrial controls .....	3622	9.81	9.86	10.18	10.17	-	398.29	397.36	415.34	412.90	-
Household appliances .....	363	10.22	10.22	10.30	10.20	-	393.47	404.71	408.91	403.92	-
Household refrigerators and freezers .....	3632	11.95	11.89	11.83	11.41	-	468.44	473.22	455.46	440.43	-
Household laundry equipment .....	3633	11.97	12.12	12.23	12.08	-	475.21	495.71	507.55	486.82	-
Electric housewares and fans .....	3634	7.54	7.49	7.64	7.61	-	293.31	301.10	303.31	306.68	-
Electric lighting and wiring equipment .....	364	9.69	9.73	9.99	10.05	-	386.63	389.20	402.60	404.01	-
Electric lamps .....	3641	10.86	10.96	11.50	11.41	-	450.69	453.74	472.65	465.53	-
Current-carrying wiring devices .....	3643	9.55	9.53	9.90	9.91	-	375.32	380.25	397.98	396.40	-
Noncurrent-carrying wiring devices .....	3644	9.33	9.33	9.41	9.41	-	375.07	375.07	382.99	390.52	-
Residential lighting fixtures .....	3645	7.06	7.16	7.41	7.37	-	271.81	266.35	288.99	288.90	-
Radio and TV receiving equipment .....	365	9.46	9.60	9.19	9.40	-	384.08	383.04	365.76	383.52	-
Radio and TV receiving sets .....	3651	9.96	9.99	9.58	9.83	-	399.40	397.60	384.16	396.15	-
Communication equipment .....	366	12.30	12.29	12.62	12.70	-	501.84	505.12	526.25	533.40	-
Telephone and telegraph apparatus .....	3661	11.71	11.65	11.50	11.43	-	488.31	486.97	508.30	515.49	-
Radio and TV communication equipment .....	3662	12.54	12.54	13.10	13.25	-	506.62	511.63	533.17	540.60	-
Electronic components and accessories .....	367	9.48	9.48	9.94	9.95	-	379.20	382.04	404.56	406.96	-
Electronic tubes .....	3671-3	12.01	11.99	12.64	12.63	-	492.41	484.40	525.82	517.83	-
Semiconductors and related devices .....	3674	11.57	11.54	11.91	12.03	-	457.02	461.60	483.55	489.62	-
Electronic components, nec .....	3679	8.43	8.44	8.88	8.88	-	341.42	344.35	365.86	368.52	-
Misc. electrical equipment and supplies .....	369	11.03	11.01	10.87	11.00	-	459.95	461.32	438.06	445.50	-
Storage batteries .....	3691	11.43	11.56	11.78	11.85	-	460.63	480.90	467.67	472.82	-
Engine electrical equipment .....	3694	11.94	11.86	11.36	11.56	-	505.06	501.68	456.67	469.34	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	43.3	43.0	41.5	42.4	40.6	5.1	4.9	3.5	4.1	-
Motor vehicles and equipment .....	371	44.2	43.7	41.2	42.7	40.8	5.6	5.3	3.0	4.2	-
Motor vehicles and car bodies .....	3711	44.9	43.9	41.5	42.5	-	5.9	5.4	2.9	3.8	-
Truck and bus bodies .....	3713	43.6	43.6	40.0	40.7	-	4.5	3.9	2.2	3.5	-
Motor vehicle parts and accessories .....	3714	44.2	44.0	41.4	43.3	-	5.8	5.6	3.2	4.6	-
Truck trailers .....	3715	40.5	40.3	38.8	40.1	-	2.7	2.7	2.2	2.8	-
Aircraft and parts .....	372	42.9	43.0	42.8	42.9	-	5.3	5.3	4.8	4.8	-
Aircraft .....	3721	42.7	42.8	42.6	42.7	-	5.2	5.2	4.7	4.7	-
Aircraft engines and engine parts .....	3724	42.7	43.1	42.6	42.9	-	5.5	5.5	5.0	5.0	-
Aircraft equipment, nec .....	3728	43.5	43.1	43.2	43.3	-	5.5	5.3	4.8	4.8	-
Ship and boat building and repairing .....	373	40.8	40.9	39.8	40.5	-	3.3	3.3	2.6	3.1	-
Ship building and repairing .....	3731	41.6	41.4	40.4	41.1	-	3.6	3.3	2.9	3.4	-
Boat building and repairing .....	3732	39.8	40.3	38.7	39.3	-	3.0	3.3	2.3	2.6	-
Railroad equipment .....	374	42.5	42.7	40.6	41.8	-	4.0	3.7	2.9	3.2	-
Guided missiles, space vehicles, and parts .....	376	43.0	42.4	42.8	42.4	-	4.2	4.0	4.1	4.0	-
Guided missiles and space vehicles .....	3761	43.0	42.3	42.9	42.3	-	4.1	3.9	4.2	4.0	-
Miscellaneous transportation equipment .....	379	39.6	40.1	39.1	39.6	-	3.0	3.1	2.1	2.6	-
Travel trailers and campers .....	3792	37.8	39.0	37.5	38.5	-	2.0	2.3	1.0	1.5	-
Instruments and related products .....	38	41.2	41.3	41.0	41.2	40.5	2.9	2.7	2.7	2.8	-
Engineering and scientific instruments .....	381	42.1	42.1	42.5	42.5	-	2.8	2.6	2.8	3.0	-
Measuring and controlling devices .....	382	41.2	40.9	40.9	40.9	-	2.8	2.5	2.6	2.6	-
Environmental controls .....	3822	40.2	39.8	40.3	40.4	-	2.3	2.1	2.1	2.1	-
Process control instruments .....	3823	43.9	42.4	42.7	43.0	-	3.9	3.4	3.8	3.9	-
Instruments to measure electricity .....	3825	40.3	40.6	40.2	40.3	-	2.4	1.9	2.0	2.2	-
Optical instruments and lenses .....	383	42.8	42.6	41.7	41.7	-	2.7	2.6	2.7	2.8	-
Medical instruments and supplies .....	384	40.1	40.7	40.8	41.4	-	3.0	2.7	2.6	3.0	-
Surgical and medical instruments .....	3841	40.1	40.7	41.1	41.5	-	3.1	2.7	2.6	3.2	-
Surgical appliances and supplies .....	3842	39.7	40.5	40.4	41.1	-	2.7	2.6	2.3	2.6	-
Ophthalmic goods .....	385	41.0	40.2	40.1	39.9	-	3.3	2.7	2.8	2.6	-
Photographic equipment and supplies .....	386	42.9	43.9	41.1	41.3	-	3.5	3.7	3.1	3.2	-
Watches, clocks, and watchcases .....	387	39.2	39.1	39.0	39.0	-	1.0	1.2	2.4	1.8	-
Miscellaneous manufacturing .....	39	39.4	39.6	39.2	39.4	38.1	2.4	2.3	2.2	2.3	-
Jewelry, silverware, and plated ware .....	391	38.0	38.2	37.5	37.8	-	1.9	1.7	1.1	1.3	-
Jewelry, precious metal .....	3911	37.6	38.0	36.7	37.3	-	1.7	1.6	.9	1.1	-
Musical instruments .....	393	39.3	39.5	39.7	40.0	-	2.2	2.1	2.2	2.3	-
Toys and sporting goods .....	394	39.4	39.9	39.1	39.6	-	2.5	2.4	2.4	2.6	-
Dolls, games, toys, and children's vehicles .....	3942,4	37.7	38.4	38.4	38.3	-	1.5	1.3	1.9	2.0	-
Sporting and athletic goods, nec .....	3949	40.6	40.9	39.6	40.5	-	3.2	3.1	2.8	3.0	-
Pens, pencils, office, and art supplies .....	395	40.6	40.3	40.6	40.5	-	2.9	2.5	2.5	2.3	-
Costume jewelry and notions .....	396	38.3	38.8	39.5	39.5	-	2.1	2.2	2.0	2.3	-
Costume jewelry .....	3961	36.6	37.7	39.9	39.9	-	1.9	2.3	2.4	2.5	-
Miscellaneous manufactures .....	399	39.8	39.9	39.4	39.5	-	2.6	2.6	2.4	2.6	-
Signs and advertising displays .....	3993	39.6	39.4	40.0	40.2	-	2.7	2.8	2.8	3.0	-
<b>Nondurable goods</b> .....		39.9	40.1	39.6	39.7	39.0	3.6	3.5	3.3	3.4	2.9
Food and kindred products .....	20	39.9	40.0	39.8	40.0	39.6	3.8	3.8	3.7	3.8	-
Meat products .....	201	39.2	39.6	38.8	39.1	-	3.5	3.7	3.3	3.5	-
Meat packing plants .....	2011	40.1	40.8	39.6	40.2	-	4.1	4.5	3.8	4.3	-
Sausages and other prepared meats .....	2013	40.9	40.4	40.0	40.9	-	4.4	4.1	4.2	4.5	-
Poultry dressing plants .....	2016	38.0	38.3	37.8	37.9	-	2.8	2.9	2.6	2.7	-
Dairy products .....	202	40.9	41.2	40.7	41.1	-	4.1	4.2	4.2	4.4	-
Cheese, natural and processed .....	2022	39.7	40.1	38.3	39.2	-	3.7	3.7	3.5	3.5	-
Fluid milk .....	2026	41.7	41.7	41.4	41.6	-	4.4	4.5	4.6	4.7	-
Preserved fruits and vegetables .....	203	39.8	39.3	39.6	39.2	-	3.7	3.3	3.7	3.2	-
Canned specialties .....	2032	41.9	41.1	42.7	40.1	-	5.3	3.8	5.8	3.0	-
Canned fruits and vegetables .....	2033	38.4	38.7	39.1	38.9	-	3.1	3.3	3.1	3.0	-
Frozen fruits and vegetables .....	2037	39.2	39.1	38.6	38.6	-	3.0	3.0	3.1	3.0	-
Grain mill products .....	204	44.0	43.7	43.7	43.9	-	6.0	5.6	4.9	5.0	-
Flour and other grain mill products .....	2041	44.3	43.9	46.5	46.1	-	5.4	5.4	6.1	5.8	-
Prepared feeds, nec .....	2048	43.0	42.6	42.6	42.8	-	6.1	5.7	5.3	5.4	-
Bakery products .....	205	38.9	39.0	39.7	39.8	-	3.4	3.5	3.9	4.1	-
Bread, cake, and related products .....	2051	38.1	38.6	39.3	39.3	-	3.5	3.8	4.0	4.0	-
Cookies and crackers .....	2052	41.0	40.2	40.8	41.0	-	3.2	2.8	3.7	4.3	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Durable goods—Continued</b>											
Transportation equipment .....	37	\$13.65	\$13.60	\$13.90	\$14.04	\$13.94	\$591.05	\$584.80	\$576.85	\$595.30	\$565.96
Motor vehicles and equipment .....	371	14.28	14.20	14.33	14.61	14.45	631.18	620.54	590.40	623.85	589.56
Motor vehicles and car bodies .....	3711	16.43	16.42	16.71	16.98	-	737.71	720.84	693.47	721.65	-
Truck and bus bodies .....	3713	11.76	11.60	12.46	12.69	-	512.74	505.76	498.40	516.48	-
Motor vehicle parts and accessories .....	3714	13.30	13.19	13.12	13.45	-	587.86	580.36	543.17	582.39	-
Truck trailers .....	3715	9.43	9.46	9.67	9.67	-	381.92	381.24	375.20	387.77	-
Aircraft and parts .....	372	14.11	14.09	14.66	14.68	-	605.32	605.87	627.45	629.77	-
Aircraft .....	3721	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	-	-	-	-	-	-
Aircraft engines and engine parts .....	3724	\$14.35	\$14.17	\$14.70	\$14.68	-	\$612.75	\$610.73	\$626.22	\$629.77	-
Aircraft equipment, nec .....	3728	12.93	12.95	13.34	13.38	-	562.46	558.15	576.29	579.35	-
Ship and boat building and repairing .....	373	10.48	10.41	10.71	10.76	-	427.58	425.77	426.26	435.78	-
Ship building and repairing .....	3731	11.72	11.64	11.81	11.88	-	487.55	481.90	477.12	488.27	-
Boat building and repairing .....	3732	8.65	8.64	8.77	8.76	-	344.27	348.19	339.40	344.27	-
Railroad equipment .....	374	12.62	12.76	13.23	13.06	-	536.35	544.85	537.14	545.91	-
Guided missiles, space vehicles, and parts .....	376	13.54	13.59	14.19	14.19	-	582.22	576.22	607.33	601.66	-
Guided missiles and space vehicles .....	3761	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	( <sup>b</sup> )	-	-	-	-	-	-
Miscellaneous transportation equipment .....	379	\$10.42	\$10.27	\$10.58	\$10.66	-	\$412.63	\$411.83	\$413.68	\$422.14	-
Travel trailers and campers .....	3792	9.29	9.07	9.23	9.40	-	351.16	353.73	346.13	361.90	-
Instruments and related products .....	38	10.17	10.17	10.55	10.56	10.57	419.00	420.02	432.55	435.07	428.09
Engineering and scientific instruments .....	381	11.35	11.38	11.92	11.86	-	477.84	479.10	506.60	504.05	-
Measuring and controlling devices .....	382	9.93	9.96	10.29	10.33	-	409.12	407.36	420.86	422.50	-
Environmental controls .....	3822	9.36	9.38	9.33	9.30	-	376.27	373.32	376.00	375.72	-
Process control instruments .....	3823	9.45	9.57	9.98	10.04	-	414.86	405.77	426.15	431.72	-
Instruments to measure electricity .....	3825	10.10	10.04	10.65	10.73	-	407.03	407.62	428.13	432.42	-
Optical instruments and lenses .....	383	11.14	11.18	11.83	11.86	-	476.79	476.27	493.31	494.56	-
Medical instruments and supplies .....	384	9.22	9.18	9.50	9.55	-	369.72	373.63	387.60	395.37	-
Surgical and medical instruments .....	3841	9.40	9.31	9.55	9.66	-	376.94	378.92	392.51	400.89	-
Surgical appliances and supplies .....	3842	9.01	9.00	9.41	9.42	-	357.70	364.50	380.16	387.16	-
Ophthalmic goods .....	385	7.66	7.65	8.17	8.14	-	314.06	307.53	327.62	324.79	-
Photographic equipment and supplies .....	386	13.47	13.41	14.12	14.14	-	577.86	588.70	580.33	583.98	-
Watches, clocks, and watchcases .....	387	7.43	7.46	7.58	7.62	-	291.26	291.69	295.62	297.18	-
Miscellaneous manufacturing .....	39	8.23	8.21	8.58	8.59	8.59	324.26	325.12	336.34	338.45	327.28
Jewelry, silverware, and plated ware .....	391	8.82	8.85	9.22	9.25	-	335.16	338.07	345.75	349.65	-
Jewelry, precious metal .....	3911	8.84	8.89	9.20	9.22	-	332.38	337.82	337.64	343.91	-
Musical instruments .....	393	8.10	8.17	8.51	8.49	-	318.33	322.72	337.85	339.60	-
Toys and sporting goods .....	394	7.50	7.47	7.84	7.89	-	295.50	298.05	306.54	312.44	-
Dolls, games, toys, and children's vehicles .....	3942,4	7.47	7.39	7.82	7.91	-	281.62	283.78	300.29	302.95	-
Sporting and athletic goods, nec .....	3949	7.52	7.52	7.86	7.87	-	305.31	307.57	311.26	318.74	-
Pens, pencils, office, and art supplies .....	395	8.10	8.03	8.80	8.83	-	328.86	323.61	351.28	357.62	-
Costume jewelry and notions .....	396	6.98	6.99	7.00	7.10	-	267.33	271.21	276.50	280.45	-
Costume jewelry .....	3961	6.51	6.55	6.34	6.44	-	238.27	246.94	252.97	256.96	-
Miscellaneous manufactures .....	399	8.99	8.98	9.38	9.35	-	357.80	358.30	369.57	369.33	-
Signs and advertising displays .....	3993	9.19	9.21	9.76	9.79	-	363.92	362.87	390.40	393.56	-
<b>Nondurable goods</b> .....		9.66	9.65	9.96	10.02	10.10	385.43	386.97	394.42	397.79	393.90
Food and kindred products .....	20	9.33	9.32	9.48	9.57	9.61	372.27	372.80	377.30	382.80	380.56
Meat products .....	201	7.70	7.69	7.80	7.89	-	301.84	304.52	302.64	308.50	-
Meat packing plants .....	2011	8.52	8.48	8.54	8.68	-	341.65	345.98	338.18	348.94	-
Sausages and other prepared meats .....	2013	9.15	9.14	9.24	9.32	-	374.24	369.26	369.60	381.19	-
Poultry dressing plants .....	2016	6.52	6.55	6.75	6.81	-	247.76	250.87	255.15	258.10	-
Dairy products .....	202	10.02	10.05	10.43	10.41	-	409.82	414.06	424.50	427.85	-
Cheese, natural and processed .....	2022	9.37	9.30	9.66	9.61	-	371.99	372.93	369.98	376.71	-
Fluid milk .....	2026	10.44	10.52	10.75	10.78	-	435.35	438.68	445.05	448.45	-
Preserved fruits and vegetables .....	203	8.74	8.75	8.98	9.03	-	347.85	343.88	355.61	353.98	-
Canned specialties .....	2032	10.88	10.71	10.93	10.81	-	455.87	440.18	466.71	433.48	-
Canned fruits and vegetables .....	2033	8.88	8.84	9.23	9.30	-	340.99	342.11	360.89	361.77	-
Frozen fruits and vegetables .....	2037	7.85	7.98	8.11	8.22	-	307.72	312.02	313.05	317.29	-
Grain mill products .....	204	11.24	11.25	11.14	11.17	-	494.56	491.63	486.82	490.36	-
Flour and other grain mill products .....	2041	10.84	10.91	10.60	10.60	-	480.21	478.95	492.90	488.66	-
Prepared feeds, nec .....	2048	8.73	8.79	8.94	8.98	-	375.39	374.45	380.84	384.34	-
Bakery products .....	205	10.43	10.41	10.71	10.74	-	405.73	405.99	425.19	427.45	-
Bread, cake, and related products .....	2051	10.39	10.39	10.68	10.68	-	395.86	401.05	419.72	419.72	-
Cookies and crackers .....	2052	10.52	10.46	10.78	10.90	-	431.32	420.49	439.82	446.90	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Sugar and confectionery products .....	206	40.2	39.4	40.5	39.8	-	3.4	2.8	3.6	3.1	-
Cane and beet sugar .....	2061-3	43.7	42.2	45.0	41.7	-	6.4	3.8	7.1	5.0	-
Confectionery products .....	2065	38.7	37.8	39.1	38.7	-	2.5	2.2	2.6	2.4	-
Fats and oils .....	207	43.4	43.4	42.5	42.6	-	5.2	5.1	4.5	4.7	-
Beverages .....	208	41.1	41.4	40.6	41.2	-	3.6	3.9	3.7	4.2	-
Malt beverages .....	2082	44.0	43.6	42.5	43.4	-	6.1	5.8	6.2	6.9	-
Bottled and canned soft drinks .....	2086	39.6	40.5	39.7	40.4	-	2.8	3.5	2.7	3.4	-
Misc. food and kindred products .....	209	37.8	38.4	38.0	39.0	-	3.5	3.6	3.7	4.2	-
Tobacco manufactures .....	21	36.3	38.1	37.7	38.8	37.9	1.5	1.8	2.0	2.1	-
Cigarettes .....	211	36.4	38.4	38.0	39.1	-	1.4	1.9	2.1	2.3	-
Textile mill products .....	22	41.0	41.2	39.9	39.8	38.6	4.0	4.1	3.5	3.5	-
Weaving mills, cotton .....	221	41.2	41.6	40.4	39.6	-	4.3	4.6	4.0	3.8	-
Weaving mills, synthetics .....	222	40.9	41.3	40.7	40.5	-	4.0	4.2	3.5	3.6	-
Weaving and finishing mills, wool .....	223	41.6	41.3	39.7	40.3	-	3.4	3.3	2.8	3.2	-
Narrow fabric mills .....	224	42.3	42.3	40.8	40.4	-	4.1	4.1	2.7	2.4	-
Knitting mills .....	225	39.8	40.2	38.0	38.2	-	3.6	3.7	2.7	2.7	-
Women's hosiery, except socks .....	2251	39.0	38.6	38.3	37.7	-	3.0	2.5	2.6	2.4	-
Hosiery, nec .....	2252	39.0	39.5	37.2	36.6	-	3.2	3.2	1.9	1.6	-
Knit outerwear mills .....	2253	39.4	39.9	37.0	37.5	-	3.5	3.7	2.9	3.1	-
Knit underwear mills .....	2254	39.4	40.0	38.5	38.6	-	2.3	2.3	2.1	1.7	-
Circular knit fabric mills .....	2257	41.4	42.0	39.0	40.5	-	4.6	5.0	3.2	3.6	-
Textile finishing, except wool .....	226	42.6	43.3	41.1	41.7	-	5.0	5.3	4.4	4.9	-
Finishing plants, cotton .....	2261	42.7	43.3	41.4	41.7	-	4.4	5.1	4.4	4.7	-
Finishing plants, synthetics .....	2262	42.4	43.2	40.6	42.2	-	5.1	5.4	4.1	5.2	-
Floor covering mills .....	227	41.4	41.6	42.3	41.8	-	4.0	4.1	4.5	4.5	-
Yarn and thread mills .....	228	41.0	41.0	39.9	39.5	-	4.1	4.0	3.8	3.7	-
Yarn mills, except wool .....	2281	41.2	41.4	40.5	40.0	-	4.4	4.3	4.2	4.0	-
Throwing and winding mills .....	2282	39.1	39.3	36.6	36.7	-	2.3	2.5	2.1	2.3	-
Miscellaneous textile goods .....	229	42.1	41.7	41.3	41.6	-	4.0	3.9	3.7	3.9	-
Apparel and other textile products .....	23	36.9	37.1	36.4	36.2	34.8	2.0	1.9	1.5	1.5	-
Men's and boys' suits and coats .....	231	36.1	36.2	34.7	34.8	-	1.1	1.1	.7	.7	-
Men's and boys' furnishings .....	232	36.9	37.1	36.2	35.9	-	1.7	1.6	1.2	1.1	-
Men's and boys' shirts and nightwear .....	2321	36.7	37.2	36.5	36.1	-	1.4	1.4	1.1	1.1	-
Men's and boys' separate trousers .....	2327	36.3	36.4	35.4	35.2	-	1.4	1.5	1.7	1.5	-
Men's and boys' work clothing .....	2328	36.3	36.8	35.6	35.7	-	1.8	1.7	1.0	1.0	-
Women's and misses' outerwear .....	233	35.9	35.7	35.4	35.1	-	1.7	1.6	1.6	1.6	-
Women's and misses' blouses and waists .....	2331	36.1	36.0	35.5	35.3	-	1.5	1.3	1.2	1.2	-
Women's and misses' dresses .....	2335	35.5	35.1	34.3	33.9	-	1.6	1.5	1.4	1.4	-
Women's and misses' suits and coats .....	2337	35.7	36.0	35.3	35.2	-	1.9	2.2	1.5	1.2	-
Women's and misses' outerwear, nec .....	2339	36.0	35.9	35.9	35.5	-	1.8	1.6	1.8	1.8	-
Women's and children's undergarments .....	234	37.6	37.6	36.8	37.0	-	2.0	1.5	1.4	1.4	-
Women's and children's underwear .....	2341	37.9	37.8	37.1	37.2	-	2.0	1.5	1.3	1.4	-
Brassieres and allied garments .....	2342	36.1	36.4	35.2	36.0	-	1.9	1.7	1.7	1.5	-
Children's outerwear .....	236	35.4	36.3	36.7	35.9	-	1.7	1.7	1.9	1.6	-
Children's dresses and blouses .....	2361	34.1	35.0	36.8	35.5	-	1.6	1.7	2.2	2.1	-
Misc. apparel and accessories .....	238	38.1	37.9	36.9	36.6	-	2.5	2.0	1.0	1.1	-
Misc. fabricated textile products .....	239	38.9	39.5	38.1	38.4	-	2.9	3.1	2.1	2.3	-
Curtains and draperies .....	2391	38.2	39.3	36.1	36.7	-	2.1	2.5	1.4	1.5	-
House furnishings, nec .....	2392	38.0	38.7	38.5	37.6	-	2.4	2.5	1.9	1.5	-
Automotive and apparel trimmings .....	2396	42.6	42.0	39.5	40.8	-	5.8	5.5	3.0	3.7	-
Paper and allied products .....	26	43.0	43.1	42.7	42.9	42.3	4.9	4.9	4.7	4.7	-
Paper and pulp mills .....	261,2,6	45.3	45.4	44.9	45.0	-	6.6	6.5	6.3	6.2	-
Paper mills, except building paper .....	262	45.5	45.6	45.1	45.2	-	6.8	6.6	6.4	6.3	-
Paperboard mills .....	263	44.2	44.2	44.8	44.4	-	6.4	6.4	6.8	6.8	-
Misc. converted paper products .....	264	41.5	41.5	41.6	41.6	-	3.7	3.6	3.8	3.7	-
Paper coating and glazing .....	2641	43.8	43.7	42.6	43.5	-	4.1	4.1	4.0	4.4	-
Envelopes .....	2642	41.2	40.6	42.5	41.9	-	2.8	2.8	3.8	3.6	-
Bags, except textile bags .....	2643	40.9	40.5	41.0	41.0	-	3.9	3.6	3.9	3.8	-
Paperboard containers and boxes .....	265	42.2	42.4	41.5	42.0	-	4.4	4.4	3.7	3.9	-
Folding paperboard boxes .....	2651	42.5	42.0	41.4	41.5	-	4.6	4.3	3.8	4.0	-
Corrugated and solid fiber boxes .....	2653	42.8	43.0	41.9	42.4	-	4.7	4.8	3.8	4.1	-
Sanitary food containers .....	2654	39.9	41.8	41.6	43.2	-	3.4	4.4	3.8	4.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Food and kindred products—Continued											
Sugar and confectionery products .....	206	\$9.91	\$9.96	\$10.02	\$10.22	-	\$398.38	\$392.42	\$405.81	\$406.76	-
Cane and beet sugar .....	2061-3	11.72	11.66	11.54	11.71	-	512.16	492.05	519.30	488.31	-
Confectionery products .....	2065	8.76	8.77	8.88	9.18	-	339.01	331.51	347.21	355.27	-
Fats and oils .....	207	9.63	9.64	9.78	9.95	-	417.94	418.38	415.65	423.87	-
Beverages .....	208	12.88	12.81	13.27	13.42	-	529.37	530.33	538.76	552.90	-
Malt beverages .....	2082	18.05	17.89	18.38	18.88	-	794.20	780.00	781.15	819.39	-
Bottled and canned soft drinks .....	2086	10.20	10.26	10.52	10.54	-	403.92	415.53	417.64	425.82	-
Misc. food and kindred products .....	209	8.71	8.68	8.85	8.97	-	329.24	333.31	336.30	349.83	-
Tobacco manufactures .....	21	15.34	15.87	15.70	16.47	\$17.30	556.84	604.65	591.89	639.04	\$655.67
Cigarettes .....	211	18.21	18.13	19.20	19.29	-	662.84	696.19	729.60	754.24	-
Textile mill products .....	22	7.59	7.60	7.92	7.94	7.94	311.19	313.12	316.01	316.01	306.48
Weaving mills, cotton .....	221	7.90	7.96	8.21	8.20	-	325.48	331.14	331.68	324.72	-
Weaving mills, synthetics .....	222	8.20	8.22	8.46	8.50	-	335.38	339.49	344.32	344.25	-
Weaving and finishing mills, wool .....	223	8.20	8.41	8.43	8.51	-	341.12	347.33	334.67	342.95	-
Narrow fabric mills .....	224	7.15	7.12	7.20	7.26	-	302.45	301.18	293.76	293.30	-
Knitting mills .....	225	6.88	6.85	7.24	7.28	-	273.82	275.37	275.12	278.10	-
Women's hosiery, except socks .....	2251	6.83	6.78	6.87	6.80	-	266.37	261.71	263.12	256.36	-
Hosiery, nec .....	2252	6.67	6.66	6.88	6.90	-	260.13	263.07	255.94	252.54	-
Knit outerwear mills .....	2253	6.46	6.39	7.09	7.15	-	254.52	254.96	262.33	268.13	-
Knit underwear mills .....	2254	6.77	6.82	7.35	7.43	-	266.74	272.80	282.98	286.80	-
Circular knit fabric mills .....	2257	7.78	7.75	7.93	7.98	-	322.09	325.50	309.27	323.19	-
Textile finishing, except wool .....	226	8.03	8.06	8.30	8.34	-	342.08	349.00	341.13	347.78	-
Finishing plants, cotton .....	2261	8.01	8.04	8.25	8.27	-	342.03	348.13	341.55	344.86	-
Finishing plants, synthetics .....	2262	8.43	8.39	8.66	8.72	-	357.43	362.45	351.60	367.98	-
Floor covering mills .....	227	7.86	7.84	8.23	8.27	-	325.40	326.14	348.13	345.69	-
Yarn and thread mills .....	228	7.31	7.33	7.67	7.65	-	299.71	300.53	306.03	302.18	-
Yarn mills, except wool .....	2281	7.32	7.33	7.68	7.66	-	301.58	303.46	311.04	306.40	-
Throwing and winding mills .....	2282	7.33	7.34	7.75	7.78	-	286.60	288.46	283.65	285.53	-
Miscellaneous textile goods .....	229	8.53	8.59	8.85	8.82	-	359.11	358.20	365.51	366.91	-
Apparel and other textile products .....	23	6.34	6.32	6.45	6.54	6.58	233.95	234.47	234.78	236.75	228.98
Men's and boys' suits and coats .....	231	7.07	7.05	7.25	7.38	-	255.23	255.21	251.58	256.82	-
Men's and boys' furnishings .....	232	5.79	5.77	6.00	6.03	-	213.65	214.07	217.20	216.48	-
Men's and boys' shirts and nightwear .....	2321	5.68	5.67	5.98	6.01	-	208.46	210.92	218.27	216.96	-
Men's and boys' separate trousers .....	2327	5.59	5.59	5.62	5.74	-	202.92	203.48	198.95	202.05	-
Men's and boys' work clothing .....	2328	5.72	5.69	5.89	5.88	-	207.64	209.39	209.68	209.92	-
Women's and misses' outerwear .....	233	6.10	6.05	6.17	6.19	-	218.99	215.99	218.42	217.27	-
Women's and misses' blouses and waists .....	2331	5.33	5.26	5.47	5.52	-	192.41	189.36	194.19	194.86	-
Women's and misses' dresses .....	2335	6.58	6.48	6.48	6.60	-	233.59	227.45	222.26	223.74	-
Women's and misses' suits and coats .....	2337	6.27	6.30	6.84	6.60	-	223.84	226.80	241.45	232.32	-
Women's and misses' outerwear, nec .....	2339	6.05	6.01	6.07	6.11	-	217.80	215.76	217.91	216.91	-
Women's and children's undergarments .....	234	5.94	5.90	6.10	6.14	-	223.34	221.84	224.48	227.18	-
Women's and children's underwear .....	2341	5.77	5.75	5.94	5.98	-	218.68	217.35	220.37	222.46	-
Brassieres and allied garments .....	2342	6.84	6.71	6.92	6.97	-	246.92	244.24	243.58	250.92	-
Children's outerwear .....	236	5.65	5.64	5.78	5.80	-	200.01	204.73	212.13	208.22	-
Children's dresses and blouses .....	2361	5.68	5.67	5.78	5.78	-	193.69	198.45	212.70	205.19	-
Misc. apparel and accessories .....	238	6.14	6.11	6.36	6.36	-	233.93	231.57	234.68	232.78	-
Misc. fabricated textile products .....	239	7.60	7.62	7.62	7.82	-	295.64	300.99	290.32	300.29	-
Curtains and draperies .....	2391	6.26	6.29	6.41	6.45	-	239.13	247.20	231.40	236.72	-
House furnishings, nec .....	2392	6.36	6.35	6.56	6.56	-	241.68	245.75	252.56	246.66	-
Automotive and apparel trimmings .....	2396	11.67	11.81	11.16	11.60	-	497.14	496.02	440.82	473.28	-
Paper and allied products .....	26	11.84	11.83	12.12	12.12	12.26	509.12	509.87	517.52	519.95	518.60
Paper and pulp mills .....	261,2,6	14.56	14.58	14.98	14.96	-	659.57	661.93	672.60	673.20	-
Paper mills, except building paper .....	262	14.60	14.61	14.97	14.94	-	664.30	666.22	675.15	675.29	-
Paperboard mills .....	263	14.56	14.51	14.97	14.98	-	643.55	641.34	670.66	665.11	-
Misc. converted paper products .....	264	10.29	10.30	10.57	10.59	-	427.04	427.45	439.71	440.54	-
Paper coating and glazing .....	2641	11.38	11.48	11.97	11.96	-	498.44	501.68	509.92	520.26	-
Envelopes .....	2642	9.66	9.72	9.89	9.98	-	397.99	394.63	420.33	418.16	-
Bags, except textile bags .....	2643	9.51	9.43	9.79	9.84	-	388.96	381.92	401.39	403.44	-
Paperboard containers and boxes .....	265	10.12	10.09	10.21	10.25	-	427.06	427.82	423.72	430.50	-
Folding paperboard boxes .....	2651	10.58	10.50	10.81	10.84	-	449.65	441.00	447.53	449.86	-
Corrugated and solid fiber boxes .....	2653	10.29	10.26	10.26	10.36	-	440.41	441.18	429.89	439.26	-
Sanitary food containers .....	2654	9.78	9.93	9.93	9.86	-	390.22	415.07	413.09	425.95	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>2</sup>	Apr. 1990 <sup>2</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>2</sup>	Apr. 1990 <sup>2</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	37.9	37.8	37.6	37.9	37.1	3.1	2.9	2.8	3.0	-
Newspapers .....	271	33.0	33.0	32.6	32.8	-	1.3	1.2	1.2	1.2	-
Periodicals .....	272	37.7	37.8	38.6	38.0	-	2.9	3.0	3.1	3.2	-
Books .....	273	39.9	39.6	38.6	39.5	-	3.9	3.7	3.2	3.5	-
Book publishing .....	2731	39.4	39.4	39.0	39.8	-	3.7	3.3	3.0	3.2	-
Book printing .....	2732	40.7	39.9	37.9	39.0	-	4.2	4.4	3.6	4.0	-
Miscellaneous publishing .....	274	36.8	36.3	37.1	37.0	-	2.2	1.8	1.9	1.9	-
Commercial printing .....	275	39.4	39.2	38.8	39.4	-	3.7	3.4	3.4	3.7	-
Commercial printing, letterpress .....	2751	38.9	39.1	38.3	38.9	-	3.0	3.1	2.9	3.2	-
Commercial printing, lithographic .....	2752	39.4	39.1	38.8	39.3	-	4.0	3.5	3.5	3.8	-
Manifold business forms .....	276	40.8	40.8	42.0	41.4	-	3.4	3.2	3.4	3.0	-
Blankbooks and bookbinding .....	278	38.6	38.4	37.1	37.2	-	3.0	3.1	2.2	2.3	-
Printing trade services .....	279	38.6	38.9	39.2	39.2	-	4.2	3.9	3.9	4.3	-
Chemicals and allied products .....	28	42.3	42.5	42.2	42.4	42.6	4.2	4.2	4.1	4.3	-
Industrial inorganic chemicals .....	281	42.8	43.0	42.3	42.6	-	4.2	4.2	4.1	4.4	-
Industrial inorganic chemicals, nec .....	2819	42.8	42.7	42.3	42.4	-	4.1	4.0	4.1	4.3	-
Plastics materials and synthetics .....	282	43.2	43.1	42.0	42.4	-	5.0	4.9	4.7	4.9	-
Plastics materials and resins .....	2821	43.8	43.9	43.4	43.8	-	5.3	5.3	5.2	5.4	-
Organic fibers, noncellulosic .....	2824	43.1	42.9	40.5	41.1	-	4.7	4.6	4.0	4.5	-
Drugs .....	283	41.0	41.8	42.0	41.3	-	3.5	3.5	3.8	3.7	-
Pharmaceutical preparations .....	2834	40.5	41.2	42.1	41.4	-	3.5	3.5	3.8	3.7	-
Soap, cleaners, and toilet goods .....	284	40.2	39.9	40.7	41.1	-	2.9	2.7	2.9	3.0	-
Soap and other detergents .....	2841	42.7	42.3	41.6	42.4	-	4.9	4.5	4.1	4.3	-
Polishing, sanitation, and finishing preparations .....	2842,3	40.8	40.8	41.5	41.5	-	3.1	2.9	2.9	2.9	-
Toilet preparations .....	2844	38.5	38.1	39.7	40.0	-	1.8	1.5	2.1	2.3	-
Paints and allied products .....	285	41.5	41.4	41.6	41.7	-	3.3	3.4	3.4	3.5	-
Industrial organic chemicals .....	286	45.0	45.3	44.0	44.5	-	5.8	6.0	5.2	5.3	-
Cyclic crudes and intermediates .....	2865	43.5	44.1	44.9	44.6	-	4.6	5.5	6.5	5.8	-
Gum, wood, and industrial organic chemicals, nec .....	2861,9	45.4	45.6	43.8	44.5	-	6.1	6.1	4.8	5.2	-
Agricultural chemicals .....	287	43.1	44.5	43.5	44.3	-	5.1	5.9	5.0	5.8	-
Miscellaneous chemical products .....	289	42.0	42.1	42.3	42.8	-	3.8	3.6	3.7	4.0	-
Petroleum and coal products .....	29	43.2	44.3	43.9	44.4	44.9	5.3	5.8	5.0	5.8	-
Petroleum refining .....	291	43.5	44.7	44.1	44.5	-	5.4	5.9	4.7	5.6	-
Paving and roofing materials .....	295	42.4	44.0	44.8	45.6	-	5.5	6.2	7.1	8.1	-
Rubber and misc. plastics products .....	30	41.5	41.5	41.0	41.2	40.0	4.1	4.0	3.5	3.7	-
Tires and inner tubes .....	301	44.9	44.7	43.8	43.4	-	6.1	6.0	4.9	4.9	-
Rubber and plastics footwear .....	302	39.5	40.1	43.1	41.3	-	1.9	1.7	3.8	2.2	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	43.2	42.4	43.0	43.6	-	4.5	4.1	4.9	5.1	-
Fabricated rubber products, nec .....	306	41.0	41.1	41.1	41.5	-	3.3	3.3	3.0	3.3	-
Miscellaneous plastics products .....	307	41.1	41.1	40.5	40.8	-	4.0	3.9	3.3	3.6	-
Leather and leather products .....	31	37.4	37.8	37.3	37.3	36.1	1.8	1.8	1.7	1.8	-
Leather tanning and finishing .....	311	41.8	41.6	42.1	42.3	-	4.8	4.3	4.3	4.1	-
Footwear, except rubber .....	314	36.7	37.4	36.2	36.3	-	1.4	1.4	1.1	1.2	-
Men's footwear, except athletic .....	3143	36.8	37.3	35.9	36.6	-	1.2	1.1	.8	1.0	-
Women's footwear, except athletic .....	3144	36.9	37.5	36.1	35.7	-	1.9	2.0	1.3	1.1	-
Luggage .....	316	40.1	39.9	40.3	37.6	-	2.3	2.3	2.6	1.6	-
Handbags and personal leather goods .....	317	35.1	35.6	36.8	37.3	-	1.4	1.4	2.5	2.6	-
<b>Transportation and public utilities .....</b>		<b>39.2</b>	<b>39.8</b>	<b>39.0</b>	<b>39.2</b>	<b>39.5</b>	-	-	-	-	-
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	45.1	47.0	44.3	44.8	-	-	-	-	-	-
Local and interurban passenger transit .....	41	33.7	34.2	33.3	33.0	-	-	-	-	-	-
Local and suburban transportation .....	411	37.8	38.3	38.2	38.0	-	-	-	-	-	-
Intercity highway transportation .....	413	39.2	40.2	39.4	35.5	-	-	-	-	-	-
Trucking and warehousing .....	42	38.0	38.2	37.8	38.0	-	-	-	-	-	-
Trucking and trucking terminals .....	421,3	38.0	38.2	37.7	37.9	-	-	-	-	-	-
Public warehousing .....	422	38.9	39.1	39.3	39.4	-	-	-	-	-	-
Pipe lines, except natural gas .....	46	41.2	42.4	41.2	43.0	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Nondurable goods—Continued</b>											
Printing and publishing .....	27	\$10.79	\$10.73	\$11.09	\$11.13	\$11.10	\$408.94	\$405.59	\$416.98	\$421.83	\$411.81
Newspapers .....	271	10.73	10.71	11.12	11.14	-	354.09	353.43	362.51	365.39	-
Periodicals .....	272	11.30	11.44	12.03	11.93	-	426.01	432.43	464.36	453.34	-
Books .....	273	9.39	9.39	9.78	9.74	-	374.66	371.84	377.51	384.73	-
Book publishing .....	2731	9.03	8.94	9.43	9.41	-	355.78	352.24	367.77	374.52	-
Book printing .....	2732	9.94	10.09	10.34	10.27	-	404.56	402.59	391.89	400.53	-
Miscellaneous publishing .....	274	10.20	10.05	10.12	10.10	-	375.36	364.82	375.45	373.70	-
Commercial printing .....	275	11.08	10.98	11.37	11.44	-	436.55	430.42	441.16	450.74	-
Commercial printing, letterpress .....	2751	10.62	10.68	11.02	11.07	-	413.12	417.59	422.07	430.62	-
Commercial printing, lithographic .....	2752	11.28	11.10	11.51	11.59	-	444.43	434.01	446.59	455.49	-
Manifold business forms .....	276	11.26	11.20	11.58	11.43	-	459.41	456.96	486.36	473.20	-
Blankbooks and bookbinding .....	278	8.62	8.60	8.71	8.78	-	332.73	330.24	323.14	326.62	-
Printing trade services .....	279	13.49	13.50	13.60	13.86	-	520.71	525.15	533.12	543.31	-
Chemicals and allied products .....	28	12.91	12.92	13.24	13.29	13.44	546.09	549.10	558.73	563.50	572.54
Industrial inorganic chemicals .....	281	14.05	14.17	14.45	14.47	-	601.34	609.31	611.24	616.42	-
Industrial inorganic chemicals, nec .....	2819	14.08	14.22	14.57	14.56	-	602.62	607.19	616.31	617.34	-
Plastics materials and synthetics .....	282	13.24	13.27	13.64	13.74	-	571.97	571.94	572.88	582.58	-
Plastics materials and resins .....	2821	14.20	14.24	14.45	14.41	-	621.96	625.14	627.13	631.16	-
Organic fibers, noncellulosic .....	2824	12.46	12.49	13.06	13.27	-	537.03	535.82	528.93	545.40	-
Drugs .....	283	12.47	12.32	12.67	12.72	-	511.27	514.98	532.14	525.34	-
Pharmaceutical preparations .....	2834	12.34	12.22	12.64	12.67	-	499.77	503.46	532.14	524.54	-
Soap, cleaners, and toilet goods .....	284	11.13	11.14	11.56	11.60	-	447.43	444.49	470.49	476.76	-
Soap and other detergents .....	2841	14.86	14.83	15.31	15.44	-	634.52	627.31	636.90	654.66	-
Polishing, sanitation, and finishing preparations .....	2842,3	10.27	10.32	10.20	10.28	-	419.02	421.06	423.30	425.62	-
Toilet preparations .....	2844	9.34	9.34	9.89	9.88	-	359.59	355.85	392.63	395.20	-
Paints and allied products .....	285	11.58	11.58	11.80	11.85	-	480.57	479.41	490.88	494.15	-
Industrial organic chemicals .....	286	15.38	15.43	15.66	15.66	-	692.10	698.98	689.04	696.87	-
Cyclic crudes and intermediates .....	2865	15.16	15.19	16.06	15.96	-	659.46	669.88	721.09	711.82	-
Gum, wood, and industrial organic chemicals, nec .....	2861,9	15.44	15.49	15.54	15.58	-	700.98	706.34	680.65	693.31	-
Agricultural chemicals .....	287	12.49	12.35	13.01	13.07	-	538.32	549.58	565.94	579.00	-
Miscellaneous chemical products .....	289	11.72	11.78	11.97	12.04	-	492.24	495.94	506.33	515.31	-
Petroleum and coal products .....	29	15.46	15.50	15.92	16.06	16.34	667.87	686.65	698.89	713.06	733.67
Petroleum refining .....	291	16.65	16.76	17.14	17.32	-	724.28	749.17	755.87	770.74	-
Paving and roofing materials .....	295	11.65	11.81	12.20	12.37	-	493.96	519.64	546.56	564.07	-
Rubber and misc. plastics products .....	30	9.33	9.35	9.59	9.63	9.59	387.20	388.03	393.19	396.76	383.60
Tires and inner tubes .....	301	14.92	15.01	15.02	15.16	-	669.91	670.95	657.88	657.94	-
Rubber and plastics footwear .....	302	6.46	6.42	6.58	6.57	-	255.17	257.44	283.60	271.34	-
Reclaimed rubber, and rubber and plastics hose and belting .....	303,4	9.34	9.35	9.87	9.94	-	403.49	396.44	424.41	433.38	-
Fabricated rubber products, nec .....	306	8.80	8.83	9.09	9.16	-	360.80	362.91	373.60	380.14	-
Miscellaneous plastics products .....	307	8.67	8.68	8.96	8.98	-	356.34	356.75	362.88	366.38	-
Leather and leather products .....	31	6.54	6.55	6.82	6.84	6.98	244.60	247.59	254.39	255.13	251.98
Leather tanning and finishing .....	311	8.76	8.71	8.95	8.90	-	366.17	362.34	376.80	376.47	-
Footwear, except rubber .....	314	6.25	6.26	6.51	6.56	-	229.38	234.12	235.66	238.13	-
Men's footwear, except athletic .....	3143	6.66	6.69	7.02	7.05	-	245.09	249.54	252.02	258.03	-
Women's footwear, except athletic .....	3144	5.94	5.91	6.05	6.06	-	219.19	221.63	218.41	216.34	-
Luggage .....	316	6.44	6.60	6.84	6.81	-	258.24	263.34	275.65	256.06	-
Handbags and personal leather goods .....	317	5.81	5.83	6.04	6.05	-	203.93	207.55	222.27	225.67	-
<b>Transportation and public utilities .....</b>		<b>12.46</b>	<b>12.51</b>	<b>12.85</b>	<b>12.81</b>	<b>12.86</b>	<b>488.43</b>	<b>497.90</b>	<b>501.15</b>	<b>502.15</b>	<b>507.97</b>
Railroad transportation:											
Class I railroads <sup>3</sup> .....	4011	15.25	15.33	16.55	16.30	-	687.78	720.51	733.17	730.24	-
Local and interurban passenger transit .....	41	8.69	8.70	9.06	8.90	-	292.85	297.54	301.70	293.70	-
Local and suburban transportation .....	411	9.48	9.57	9.79	9.80	-	358.34	366.53	373.98	372.40	-
Intercity highway transportation .....	413	11.63	11.53	11.82	10.64	-	455.90	463.51	465.71	377.72	-
Trucking and warehousing .....	42	11.23	11.30	11.64	11.67	-	426.74	431.66	439.99	443.46	-
Trucking and trucking terminals .....	421,3	11.38	11.47	11.81	11.84	-	432.44	438.15	445.24	448.74	-
Public warehousing .....	422	9.27	9.19	9.42	9.41	-	360.60	359.33	370.21	370.75	-
Pipe lines, except natural gas .....	46	16.08	16.33	16.66	16.60	-	662.50	692.39	686.39	713.80	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>o</sup>	Apr. 1990 <sup>o</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>o</sup>	Apr. 1990 <sup>o</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	39.1	39.2	39.4	39.3	-	-	-	-	-	-
Telephone communication .....	481	40.6	40.6	41.1	41.0	-	-	-	-	-	-
Radio and television broadcasting .....	483	35.1	35.5	34.8	34.7	-	-	-	-	-	-
Electric, gas, and sanitary services .....	49	41.6	41.9	41.8	41.7	-	-	-	-	-	-
Electric services .....	491	41.8	42.1	41.8	41.6	-	-	-	-	-	-
Gas production and distribution .....	492	41.3	41.9	41.9	42.0	-	-	-	-	-	-
Combination utility services .....	493	42.0	42.2	42.4	42.2	-	-	-	-	-	-
Sanitary services .....	495	41.4	41.6	41.3	41.6	-	-	-	-	-	-
<b>Wholesale trade .....</b>		<b>37.9</b>	<b>38.2</b>	<b>37.8</b>	<b>37.9</b>	<b>38.1</b>	-	-	-	-	-
Durable goods .....	50	38.4	38.7	38.3	38.4	-	-	-	-	-	-
Motor vehicles and automotive equipment .....	501	37.2	37.6	37.6	37.7	-	-	-	-	-	-
Furniture and home furnishings .....	502	37.3	37.7	36.4	37.0	-	-	-	-	-	-
Lumber and construction materials .....	503	39.2	39.7	38.9	39.2	-	-	-	-	-	-
Sporting goods, toys, and hobby goods .....	504	35.5	35.6	35.5	35.9	-	-	-	-	-	-
Metals and minerals, except petroleum .....	505	40.3	40.6	39.9	40.3	-	-	-	-	-	-
Electrical goods .....	506	38.1	38.4	38.2	38.4	-	-	-	-	-	-
Hardware, plumbing, and heating equipment .....	507	38.3	38.7	38.5	38.6	-	-	-	-	-	-
Machinery, equipment, and supplies .....	508	38.9	39.2	38.7	38.7	-	-	-	-	-	-
Miscellaneous durable goods .....	509	38.6	38.5	37.6	37.7	-	-	-	-	-	-
Nondurable goods .....	51	37.0	37.4	37.0	37.1	-	-	-	-	-	-
Paper and paper products .....	511	37.0	37.3	37.2	37.3	-	-	-	-	-	-
Drugs, proprietaries, and sundries .....	512	36.8	36.8	37.1	37.3	-	-	-	-	-	-
Apparel, piece goods, and notions .....	513	36.3	36.0	36.7	36.6	-	-	-	-	-	-
Groceries and related products .....	514	37.5	37.7	37.4	37.5	-	-	-	-	-	-
Chemicals and allied products .....	516	39.6	39.9	39.1	39.6	-	-	-	-	-	-
Petroleum and petroleum products .....	517	38.0	38.6	38.0	37.9	-	-	-	-	-	-
Beer, wine, and distilled beverages .....	518	36.0	36.2	36.0	36.3	-	-	-	-	-	-
Miscellaneous nondurable goods .....	519	36.3	37.0	36.3	36.3	-	-	-	-	-	-
<b>Retail trade .....</b>		<b>28.5</b>	<b>28.9</b>	<b>28.3</b>	<b>28.5</b>	<b>29.0</b>	-	-	-	-	-
Building materials and garden supplies .....	52	35.7	36.2	35.6	35.7	-	-	-	-	-	-
Lumber and other building materials .....	521	37.5	38.0	37.4	37.7	-	-	-	-	-	-
Hardware stores .....	525	31.8	32.1	31.5	31.7	-	-	-	-	-	-
General merchandise stores .....	53	26.9	27.1	26.6	27.5	-	-	-	-	-	-
Department stores .....	531	26.7	26.8	26.4	27.3	-	-	-	-	-	-
Variety stores .....	533	27.5	27.8	27.9	28.0	-	-	-	-	-	-
Misc. general merchandise stores .....	539	28.0	28.7	27.6	28.3	-	-	-	-	-	-
Food stores .....	54	29.4	29.7	29.0	29.1	-	-	-	-	-	-
Grocery stores .....	541	29.5	29.8	29.1	29.2	-	-	-	-	-	-
Retail bakeries .....	546	28.6	29.2	28.8	28.8	-	-	-	-	-	-
Automotive dealers and service stations .....	55	35.9	36.3	35.9	36.1	-	-	-	-	-	-
New and used car dealers .....	551,2	36.9	37.2	36.9	37.1	-	-	-	-	-	-
Auto and home supply stores .....	553	38.0	38.5	37.6	38.0	-	-	-	-	-	-
Gasoline service stations .....	554	33.5	33.8	33.5	33.7	-	-	-	-	-	-
Apparel and accessory stores .....	56	26.4	26.7	26.1	26.8	-	-	-	-	-	-
Men's and boys' clothing and furnishings .....	561	28.1	28.5	27.5	27.7	-	-	-	-	-	-
Women's ready-to-wear stores .....	562	24.2	24.8	23.1	23.7	-	-	-	-	-	-
Family clothing stores .....	565	26.2	26.8	26.1	26.9	-	-	-	-	-	-
Shoe stores .....	566	28.8	28.7	29.4	30.2	-	-	-	-	-	-
Furniture and home furnishings stores .....	57	32.4	32.9	32.5	32.6	-	-	-	-	-	-
Furniture and home furnishings stores .....	571	33.1	33.5	33.2	33.3	-	-	-	-	-	-
Household appliance stores .....	572	33.4	33.5	33.5	33.2	-	-	-	-	-	-
Radio, television, and music stores .....	573	31.0	31.6	30.9	31.2	-	-	-	-	-	-
Eating and drinking places <sup>4</sup> .....	58	25.1	25.6	24.8	25.0	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Transportation and public utilities—Continued</b>											
Communication .....	48	\$12.95	\$13.01	\$13.30	\$13.27	-	\$506.35	\$509.99	\$524.02	\$521.51	-
Telephone communication .....	481	13.65	13.70	13.99	13.95	-	554.19	556.22	574.99	571.95	-
Radio and television broadcasting .....	483	11.81	12.04	12.35	12.33	-	414.53	427.42	429.78	427.85	-
Electric, gas, and sanitary services .....	49	14.62	14.70	15.02	15.07	-	608.19	615.93	627.84	628.42	-
Electric services .....	491	14.83	14.93	15.58	15.75	-	619.89	628.55	651.24	655.20	-
Gas production and distribution .....	492	13.58	13.58	14.10	13.98	-	560.85	569.00	590.79	587.16	-
Combination utility services .....	493	17.15	17.24	16.99	16.98	-	720.30	727.53	720.38	716.56	-
Sanitary services .....	495	11.18	11.30	11.33	11.38	-	462.85	470.08	467.93	473.41	-
<b>Wholesale trade .....</b>		<b>10.21</b>	<b>10.36</b>	<b>10.66</b>	<b>10.65</b>	<b>\$10.76</b>	<b>386.96</b>	<b>395.75</b>	<b>402.95</b>	<b>403.64</b>	<b>\$409.96</b>
Durable goods .....	50	10.43	10.61	10.96	10.95	-	400.51	410.61	419.77	420.48	-
Motor vehicles and automotive equipment .....	501	9.46	9.68	10.05	10.03	-	351.91	363.97	377.88	378.13	-
Furniture and home furnishings .....	502	9.60	9.64	10.14	10.05	-	358.08	363.43	369.10	371.85	-
Lumber and construction materials .....	503	9.86	10.02	10.39	10.29	-	386.51	397.79	404.17	403.37	-
Sporting goods, toys, and hobby goods .....	504	9.27	9.63	10.52	10.64	-	329.09	342.83	373.46	381.98	-
Metals and minerals, except petroleum .....	505	10.74	10.90	11.28	11.22	-	432.82	442.54	450.07	452.17	-
Electrical goods .....	506	10.85	11.06	11.16	11.23	-	413.39	424.70	426.31	431.23	-
Hardware, plumbing, and heating equipment .....	507	9.79	9.99	10.29	10.28	-	374.96	386.61	396.17	396.81	-
Machinery, equipment, and supplies .....	508	11.20	11.37	11.75	11.75	-	435.68	445.70	454.73	454.73	-
Miscellaneous durable goods .....	509	8.29	8.41	8.55	8.61	-	319.99	323.79	321.48	324.60	-
Nondurable goods .....	51	9.89	9.98	10.22	10.21	-	365.93	373.25	378.14	378.79	-
Paper and paper products .....	511	10.80	10.93	11.28	11.27	-	399.60	407.69	419.62	420.37	-
Drugs, proprietaries, and sundries .....	512	11.10	11.53	11.77	11.59	-	408.48	424.30	436.67	432.31	-
Apparel, piece goods, and notions .....	513	9.85	9.96	10.21	10.17	-	357.56	358.56	374.71	372.22	-
Groceries and related products .....	514	10.06	10.11	10.30	10.32	-	377.25	381.15	385.22	387.00	-
Chemicals and allied products .....	516	12.51	12.60	12.58	12.45	-	495.40	502.74	491.88	493.02	-
Petroleum and petroleum products .....	517	9.80	9.96	10.02	10.04	-	372.40	384.46	380.76	380.52	-
Beer, wine, and distilled beverages .....	518	11.38	11.54	11.70	11.89	-	409.68	417.75	421.20	431.61	-
Miscellaneous nondurable goods .....	519	8.11	8.16	8.47	8.43	-	294.39	301.92	307.46	306.01	-
<b>Retail trade .....</b>		<b>6.48</b>	<b>6.52</b>	<b>6.73</b>	<b>6.75</b>	<b>6.77</b>	<b>184.68</b>	<b>188.43</b>	<b>190.46</b>	<b>192.38</b>	<b>196.33</b>
Building materials and garden supplies .....	52	7.62	7.64	7.91	7.88	-	272.03	276.57	281.60	281.32	-
Lumber and other building materials .....	521	8.01	8.05	8.25	8.22	-	300.38	305.90	308.55	309.89	-
Hardware stores .....	525	6.37	6.35	6.65	6.63	-	202.57	203.84	209.48	210.17	-
General merchandise stores .....	53	6.64	6.74	6.98	7.06	-	178.62	182.65	185.67	194.15	-
Department stores .....	531	6.89	7.01	7.25	7.33	-	183.96	187.87	191.40	200.11	-
Variety stores .....	533	5.32	5.30	5.54	5.55	-	146.30	147.34	154.57	155.40	-
Misc. general merchandise stores .....	539	5.63	5.66	5.91	5.96	-	157.64	162.44	163.12	168.67	-
Food stores .....	54	7.15	7.17	7.30	7.31	-	210.21	212.95	211.70	212.72	-
Grocery stores .....	541	7.25	7.28	7.40	7.40	-	213.88	216.94	215.34	216.08	-
Retail bakeries .....	546	6.13	5.97	6.25	6.26	-	175.32	174.32	180.00	180.29	-
Automotive dealers and service stations .....	55	8.39	8.60	8.75	8.81	-	301.20	312.18	314.13	318.04	-
New and used car dealers .....	551.2	10.13	10.49	10.63	10.73	-	373.80	390.23	392.25	398.08	-
Auto and home supply stores .....	553	7.33	7.46	7.70	7.69	-	278.54	287.21	289.52	292.22	-
Gasoline service stations .....	554	5.88	5.94	6.14	6.15	-	196.98	200.77	205.69	207.26	-
Apparel and accessory stores .....	56	5.89	5.96	6.17	6.17	-	155.50	159.13	161.04	165.36	-
Men's and boys' clothing and furnishings .....	561	7.12	7.35	7.50	7.52	-	200.07	209.48	206.25	208.30	-
Women's ready-to-wear stores .....	562	5.58	5.62	5.90	5.86	-	135.04	139.38	136.29	138.88	-
Family clothing stores .....	565	5.81	5.92	6.15	6.12	-	152.22	158.66	160.52	164.63	-
Shoe stores .....	566	5.97	6.02	6.02	6.10	-	171.94	172.77	176.99	184.22	-
Furniture and home furnishings stores .....	57	8.03	8.10	8.30	8.34	-	260.17	266.49	269.75	271.88	-
Furniture and home furnishings stores .....	571	8.09	8.15	8.32	8.30	-	267.78	273.03	276.22	276.39	-
Household appliance stores .....	572	8.03	8.21	8.55	8.43	-	268.20	275.04	286.43	279.88	-
Radio, television, and music stores .....	573	7.93	7.97	8.20	8.40	-	245.83	251.85	253.38	262.08	-
Eating and drinking places <sup>1</sup> .....	58	4.69	4.69	4.87	4.88	-	117.72	120.06	120.78	122.00	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Apr. 1990 <sup>a</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	29.4	29.6	29.6	29.3	-	-	-	-	-	-
Drug stores and proprietary stores .....	591	27.0	27.0	26.9	27.0	-	-	-	-	-	-
Miscellaneous shopping goods stores .....	594	27.9	28.2	27.9	27.8	-	-	-	-	-	-
Nonstore retailers .....	596	32.3	32.5	32.2	32.6	-	-	-	-	-	-
Fuel and ice dealers .....	598	38.6	38.1	37.9	37.9	-	-	-	-	-	-
Retail stores, nec .....	599	31.3	31.6	32.8	30.3	-	-	-	-	-	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		<b>35.8</b>	<b>36.3</b>	<b>35.8</b>	<b>35.6</b>	<b>36.2</b>	-	-	-	-	-
Banking .....	60	35.5	36.2	35.8	35.3	-	-	-	-	-	-
Commercial and stock savings banks .....	602	35.4	36.2	35.7	35.2	-	-	-	-	-	-
Credit agencies other than banks .....	61	36.4	37.1	36.3	36.1	-	-	-	-	-	-
Savings and loan associations .....	612	35.6	36.3	35.6	35.6	-	-	-	-	-	-
Personal credit institutions .....	614	36.1	36.6	36.3	36.1	-	-	-	-	-	-
Insurance carriers .....	63	37.2	37.4	37.3	37.2	-	-	-	-	-	-
Life insurance .....	631	37.0	37.2	37.2	37.1	-	-	-	-	-	-
Medical service and health insurance .....	632	38.0	38.1	38.3	38.0	-	-	-	-	-	-
Fire, marine, and casualty insurance .....	633	37.0	37.2	37.0	37.0	-	-	-	-	-	-
<b>Services</b> .....		<b>32.4</b>	<b>32.8</b>	<b>32.5</b>	<b>32.5</b>	<b>32.7</b>	-	-	-	-	-
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>4</sup> .....	701	30.8	31.5	30.4	30.5	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services .....	721	34.0	34.2	34.0	34.0	-	-	-	-	-	-
Beauty shops <sup>4</sup> .....	723	30.0	30.3	29.0	29.4	-	-	-	-	-	-
Business services .....	73	33.6	33.9	33.5	33.7	-	-	-	-	-	-
Advertising .....	731	36.8	37.2	36.8	36.6	-	-	-	-	-	-
Services to buildings .....	734	29.5	30.0	29.1	29.3	-	-	-	-	-	-
Computer and data processing services .....	737	37.9	38.1	37.9	37.9	-	-	-	-	-	-
Auto repair, services, and garages .....	75	36.7	36.6	36.3	36.6	-	-	-	-	-	-
Automotive repair shops .....	753	38.2	38.0	37.9	38.0	-	-	-	-	-	-
Miscellaneous repair services .....	76	37.7	37.9	37.3	37.3	-	-	-	-	-	-
Motion pictures .....	78	28.9	28.6	29.5	30.1	-	-	-	-	-	-
Motion picture production and services .....	781	35.6	35.4	36.2	36.8	-	-	-	-	-	-
Amusement and recreation services .....	79	27.5	27.7	28.1	27.9	-	-	-	-	-	-
Health services .....	80	32.2	32.5	32.4	32.5	-	-	-	-	-	-
Offices of physicians .....	801	31.1	31.7	31.6	31.6	-	-	-	-	-	-
Offices of dentists .....	802	28.3	28.9	28.2	28.4	-	-	-	-	-	-
Nursing and personal care facilities .....	805	31.3	31.9	31.6	31.5	-	-	-	-	-	-
Hospitals .....	806	33.8	33.8	34.1	34.1	-	-	-	-	-	-
Legal services .....	81	34.5	35.2	34.9	34.8	-	-	-	-	-	-
Miscellaneous services .....	89	38.8	39.5	38.7	38.9	-	-	-	-	-	-
Engineering and architectural services .....	891	39.1	39.4	39.1	39.1	-	-	-	-	-	-
Accounting, auditing, and bookkeeping .....	893	39.3	40.6	38.9	39.6	-	-	-	-	-	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-2. Average hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by detailed industry—Continued**

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>p</sup>	Apr. 1990 <sup>p</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>p</sup>	Apr. 1990 <sup>p</sup>
<b>Retail trade—Continued</b>											
Miscellaneous retail .....	59	\$6.78	\$6.79	\$7.02	\$7.07	-	\$199.33	\$200.98	\$207.79	\$207.15	-
Drug stores and proprietary stores .....	591	6.41	6.43	6.65	6.67	-	173.07	173.61	178.89	180.09	-
Miscellaneous shopping goods stores .....	594	6.38	6.39	6.61	6.66	-	178.00	180.20	184.42	185.15	-
Nonstore retailers .....	596	7.63	7.70	7.84	7.89	-	246.45	250.25	252.45	257.21	-
Fuel and ice dealers .....	598	9.47	9.36	9.90	9.90	-	365.54	356.62	375.21	375.21	-
Retail stores, nec .....	599	6.88	6.92	7.10	7.20	-	215.34	218.67	232.88	218.16	-
<b>Finance, insurance, and real estate<sup>5</sup></b> .....		9.43	9.59	9.90	9.87	\$10.00	337.59	348.12	354.42	351.37	\$362.00
Banking .....	60	8.18	8.30	8.60	8.53	-	290.39	300.46	307.88	301.11	-
Commercial and stock savings banks .....	602	7.80	7.92	8.14	8.06	-	276.12	286.70	290.60	283.71	-
Credit agencies other than banks .....	61	8.50	8.63	9.04	9.02	-	309.40	320.17	328.15	325.62	-
Savings and loan associations .....	612	8.05	8.11	8.38	8.38	-	286.58	294.39	298.33	298.33	-
Personal credit institutions .....	614	8.11	8.21	8.33	8.36	-	292.77	300.49	302.38	301.80	-
Insurance carriers .....	63	10.50	10.62	10.98	11.01	-	390.60	397.19	409.55	409.57	-
Life insurance .....	631	9.88	9.98	10.21	10.26	-	365.56	371.26	379.81	380.65	-
Medical service and health insurance .....	632	10.16	10.34	10.67	10.62	-	386.08	393.95	408.66	403.56	-
Fire, marine, and casualty insurance .....	633	11.23	11.31	11.77	11.83	-	415.51	420.73	435.49	437.71	-
<b>Services</b> .....		9.29	9.34	9.75	9.75	9.81	301.00	306.35	316.88	316.88	320.79
Hotels and other lodging places:											
Hotels, motels, and tourist courts <sup>4</sup> .....	701	6.63	6.61	6.88	6.89	-	204.20	208.22	209.15	210.15	-
Personal services:											
Laundry, cleaning, and garment services .....	721	6.50	6.53	6.72	6.73	-	221.00	223.33	228.48	228.82	-
Beauty shops <sup>4</sup> .....	723	6.81	6.77	6.85	7.07	-	204.30	205.13	198.65	207.86	-
Business services .....	73	9.48	9.60	9.95	9.92	-	318.53	325.44	333.33	334.30	-
Advertising .....	731	12.75	13.30	13.27	13.40	-	469.20	494.76	488.34	490.44	-
Services to buildings .....	734	6.98	7.09	7.05	7.11	-	205.91	212.70	205.16	208.32	-
Computer and data processing services .....	737	13.81	14.03	14.67	14.57	-	523.40	534.54	555.99	552.20	-
Auto repair, services, and garages .....	75	8.28	8.34	8.61	8.63	-	303.88	305.24	312.54	315.86	-
Automotive repair shops .....	753	9.16	9.22	9.52	9.55	-	349.91	350.36	360.81	362.90	-
Miscellaneous repair services .....	76	9.77	9.86	10.17	10.23	-	368.33	373.69	379.34	381.58	-
Motion pictures .....	78	12.82	12.32	12.95	13.39	-	370.50	352.35	382.03	403.04	-
Motion picture production and services .....	781	16.45	15.72	16.29	17.00	-	585.62	556.49	589.70	625.60	-
Amusement and recreation services .....	79	8.09	8.08	8.23	8.20	-	222.48	223.82	231.26	228.78	-
Health services .....	80	9.65	9.68	10.21	10.22	-	310.73	314.60	330.80	332.15	-
Offices of physicians .....	801	9.16	9.24	9.65	9.65	-	284.88	292.91	304.94	304.94	-
Offices of dentists .....	802	9.37	9.38	9.96	9.98	-	265.17	271.08	280.87	283.43	-
Nursing and personal care facilities .....	805	6.65	6.67	7.07	7.09	-	208.15	212.77	223.41	223.34	-
Hospitals .....	806	10.99	11.03	11.59	11.60	-	371.46	372.81	395.22	395.56	-
Legal services .....	81	13.23	13.44	13.85	13.81	-	456.44	473.09	483.37	480.59	-
Miscellaneous services .....	89	12.83	13.09	13.51	13.47	-	497.80	517.06	522.84	523.98	-
Engineering and architectural services .....	891	13.90	14.09	14.57	14.51	-	543.49	555.15	569.69	567.34	-
Accounting, auditing, and bookkeeping .....	893	10.89	11.21	11.56	11.59	-	427.98	455.13	449.68	458.96	-

<sup>1</sup> Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

<sup>2</sup> See table C-2a for average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing.

<sup>3</sup> Data relate to line haul railroads with operating revenues of \$50,000,000 or more.

<sup>4</sup> Money payments only; tips, not included.

<sup>5</sup> Data for nonoffice sales agents are excluded from all series in this division.

- Data not available.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

# A Note on Average Hourly Earnings in Aircraft (SIC 3721) and Guided Missiles and Space Vehicles (SIC 3761) Manufacturing

For many years, the Bureau of Labor Statistics' average hourly earnings series for production workers in aircraft manufacturing (SIC 3721) and guided missiles and space vehicles manufacturing (SIC 3761) have been used to escalate labor costs in contracts between aerospace companies and their customers. Although the Bureau's series by definition take account of traditional wage rate changes, they do not capture "lump-sum payments to workers in lieu of general wage increases" which were negotiated in aerospace manufacturers' collective bargaining agreements beginning in late 1983.

Because of special circumstances in the aerospace industry, BLS has calculated average hourly earnings series for SIC 3721 and SIC 3761 which include lump-sum payments. These series, beginning in October 1983, the effective date of the first aerospace bargain-

ing agreement using lump-sum payments, were published in the June 1988 issue of *Employment and Earnings*. Current and year earlier data are presented in table C-2a along with the average hourly earnings series produced as part of the Current Employment Statistics program. An explanation of the methodology used to derive these series appears in the Explanatory Notes of this publication.

Lump-sum payments are but one of several recent changes in the way that employees are compensated. The changes are widespread and they differ by industry. Because of these developments, the Bureau is conducting a broad-based review of all concepts and definitions used in its earnings and wage programs to determine the proper treatment of lump-sum payments and other new compensation practices.

**C-2a. Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing**

Series	Aircraft (SIC 3721)				Guided missiles and space vehicles (SIC 3761)			
	Feb. 1989	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Feb. 1989	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
Average hourly earnings, excluding lump-sum payments .....	\$14.73	\$14.73	\$15.44	\$15.48	\$14.01	\$14.04	\$14.58	\$14.55
Average hourly earnings, including lump-sum payments .....	15.16	15.16	16.07	16.11	14.41	14.45	14.83	14.80

<sup>P</sup> = preliminary.

**ESTABLISHMENT DATA**  
**EARNINGS**  
**NOT SEASONALLY ADJUSTED**

**C-3. Average hourly earnings, excluding overtime,<sup>1</sup> of production workers on manufacturing payrolls**

Industry	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>p</sup>	Apr. 1990 <sup>p</sup>
<b>Manufacturing</b> .....	\$9.94	\$9.95	\$10.24	\$10.29	\$10.39
<b>Durable goods</b> .....	10.43	10.44	10.72	10.76	10.86
Lumber and wood products .....	8.32	8.39	8.61	8.67	(2)
Furniture and fixtures .....	7.86	7.88	8.15	8.17	(2)
Stone, clay, and glass products .....	10.04	10.10	10.31	10.36	(2)
Primary metal industries .....	11.54	11.54	11.95	11.97	(2)
Fabricated metal products .....	9.99	10.02	10.23	10.28	(2)
Machinery, except electrical .....	10.69	10.72	11.00	11.04	(2)
Electrical and electronic equipment .....	9.93	9.95	10.17	10.20	(2)
Transportation equipment .....	12.89	12.87	13.34	13.39	(2)
Instruments and related products .....	9.82	9.85	10.22	10.21	(2)
Miscellaneous manufacturing .....	7.98	7.98	8.34	8.34	(2)
<b>Nondurable goods</b> .....	9.24	9.25	9.56	9.61	\$9.73
Food and kindred products .....	8.90	8.90	9.06	9.13	(2)
Tobacco manufactures .....	15.03	15.51	15.29	16.03	(2)
Textile mill products .....	7.24	7.24	7.58	7.60	(2)
Apparel and other textile products .....	6.17	6.17	6.32	6.40	(2)
Paper and allied products .....	11.19	11.20	11.49	11.49	(2)
Printing and publishing .....	10.36	10.33	10.69	10.71	(2)
Chemicals and allied products .....	12.30	12.31	12.63	12.65	(2)
Petroleum and coal products .....	14.57	14.55	15.07	15.07	(2)
Rubber and misc. plastics products .....	8.89	8.92	9.20	9.21	(2)
Leather and leather products .....	6.38	6.40	6.66	6.69	(2)

<sup>1</sup> Derived by assuming that overtime hours are paid at the rate of time and one-half.

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

**ESTABLISHMENT DATA  
EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-4. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry, in current and constant (1977) dollars.**

Industry	Average hourly earnings					Average weekly earnings				
	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>p</sup>	Apr. 1990 <sup>p</sup>	Mar. 1989	Apr. 1989	Feb. 1990	Mar. 1990 <sup>p</sup>	Apr. 1990 <sup>p</sup>
<b>Total private:</b>										
Current dollars .....	\$9.56	\$9.62	\$9.91	\$9.93	\$9.97	\$328.86	\$334.78	\$339.91	\$341.59	\$343.97
Constant (1977) dollars .....	4.82	4.81	4.77	4.76	( <sup>2</sup> )	165.76	167.39	163.73	163.68	( <sup>2</sup> )
<b>Mining:</b>										
Current dollars .....	13.15	13.19	13.30	13.39	\$13.48	552.30	564.53	574.56	574.43	\$582.34
Constant (1977) dollars .....	6.63	6.60	6.41	6.42	( <sup>2</sup> )	278.38	282.27	276.76	275.24	( <sup>2</sup> )
<b>Construction:</b>										
Current dollars .....	13.26	13.30	13.42	13.47	\$13.38	495.92	504.07	499.22	510.51	\$500.41
Constant (1977) dollars .....	6.68	6.65	6.46	6.45	( <sup>2</sup> )	249.96	252.04	240.47	244.61	( <sup>2</sup> )
<b>Manufacturing:</b>										
Current dollars .....	10.41	10.41	10.66	10.74	\$10.77	426.81	426.81	430.66	437.12	\$427.57
Constant (1977) dollars .....	5.25	5.21	5.13	5.15	( <sup>2</sup> )	215.13	213.41	207.45	209.45	( <sup>2</sup> )
<b>Transportation and public utilities:</b>										
Current dollars .....	12.46	12.51	12.85	12.81	\$12.86	488.43	497.90	501.15	502.15	\$507.97
Constant (1977) dollars .....	6.28	6.26	6.19	6.14	( <sup>2</sup> )	246.18	248.95	241.40	240.61	( <sup>2</sup> )
<b>Wholesale trade:</b>										
Current dollars .....	10.21	10.36	10.66	10.65	\$10.76	386.96	395.75	402.95	403.64	\$409.96
Constant (1977) dollars .....	5.15	5.18	5.13	5.10	( <sup>2</sup> )	195.04	197.88	194.10	193.41	( <sup>2</sup> )
<b>Retail trade:</b>										
Current dollars .....	6.48	6.52	6.73	6.75	\$6.77	184.68	188.43	190.46	192.38	\$196.33
Constant (1977) dollars .....	3.27	3.26	3.24	3.23	( <sup>2</sup> )	93.08	94.22	91.74	92.18	( <sup>2</sup> )
<b>Finance, insurance, and real estate:</b>										
Current dollars .....	9.43	9.59	9.90	9.87	\$10.00	337.59	348.12	354.42	351.37	\$362.00
Constant (1977) dollars .....	4.75	4.80	4.77	4.73	( <sup>2</sup> )	170.16	174.06	170.72	168.36	( <sup>2</sup> )
<b>Services:</b>										
Current dollars .....	9.29	9.34	9.75	9.75	\$9.81	301.00	306.35	316.88	316.88	\$320.79
Constant (1977) dollars .....	4.68	4.67	4.70	4.67	( <sup>2</sup> )	151.71	153.18	152.64	151.84	( <sup>2</sup> )

<sup>1</sup> Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

**C-5. Average weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted**

Industry	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>P</sup>	Apr. <sup>P</sup>
<b>Total private</b> .....	34.9	34.6	34.6	34.8	34.6	34.7	34.7	34.6	34.5	34.5	34.6	34.6	34.6
<b>Mining</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Construction</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Manufacturing</b> .....	41.3	41.0	41.0	41.0	41.0	41.0	40.8	40.7	40.6	40.7	40.7	40.8	40.6
<i>Overtime hours</i> .....	3.9	3.8	3.8	3.9	3.8	3.8	3.7	3.7	3.6	3.7	3.6	3.7	3.5
<b>Durable goods</b> .....	41.9	41.5	41.5	41.5	41.6	41.6	41.2	41.2	41.2	41.3	41.3	41.4	41.2
<i>Overtime hours</i> .....	4.1	3.9	3.9	4.0	3.9	3.9	3.8	3.7	3.6	3.7	3.6	3.7	3.5
Lumber and wood products .....	40.5	39.7	39.8	39.6	40.2	40.2	40.4	40.3	40.1	40.5	39.8	40.3	40.3
Furniture and fixtures .....	39.9	39.4	39.4	39.5	39.6	39.6	39.2	39.4	39.2	39.8	39.5	39.2	39.2
Stone, clay, and glass products .....	42.5	41.9	42.2	42.3	42.5	42.2	42.3	42.4	41.5	42.2	42.1	41.9	42.1
Primary metal industries .....	43.3	43.2	43.3	43.0	42.9	42.8	42.5	42.6	42.5	42.5	42.3	42.5	41.7
Blast furnaces and basic steel products ..	43.5	43.6	43.7	43.2	43.4	42.9	42.8	43.0	42.8	43.2	42.8	42.9	42.9
Fabricated metal products .....	41.9	41.7	41.5	41.5	41.5	41.6	41.5	41.4	41.2	41.1	41.3	41.7	41.1
Machinery, except electrical .....	42.7	42.5	42.5	42.4	42.2	42.3	42.0	42.1	42.0	42.1	42.2	42.0	41.7
Electrical and electronic equipment .....	41.0	40.7	40.7	40.6	40.9	41.1	40.9	40.8	40.5	40.8	41.1	41.1	40.9
Transportation equipment .....	42.8	42.5	42.5	42.6	42.7	42.8	41.2	40.9	41.9	41.4	41.5	42.1	42.0
Motor vehicles and equipment .....	43.3	42.8	42.7	42.6	43.0	43.4	42.9	42.3	42.2	40.8	41.2	42.2	41.4
Instruments and related products .....	41.5	41.1	41.3	41.4	41.1	41.0	41.1	41.0	40.9	41.0	41.0	41.1	41.4
Miscellaneous manufacturing .....	39.8	39.6	39.4	39.3	39.4	39.2	39.3	39.7	39.3	39.4	39.5	39.4	39.1
<b>Nondurable goods</b> .....	40.4	40.2	40.3	40.2	40.2	40.2	40.2	40.1	39.9	40.0	39.9	39.9	39.7
<i>Overtime hours</i> .....	3.8	3.7	3.6	3.8	3.6	3.7	3.7	3.6	3.6	3.6	3.5	3.5	3.4
Food and kindred products .....	40.7	40.5	40.7	41.0	40.8	41.0	40.8	40.8	40.6	40.5	40.5	40.6	40.4
Tobacco manufactures .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Textile mill products .....	41.7	41.4	41.4	41.2	41.0	40.6	40.7	40.5	40.2	40.5	40.2	40.0	39.7
Apparel and other textile products .....	37.6	37.1	37.1	37.0	37.0	37.0	36.9	36.8	36.3	36.7	36.6	36.2	36.0
Paper and allied products .....	43.4	43.3	43.3	43.2	43.5	43.2	43.4	43.4	43.1	43.3	43.0	43.2	43.1
Printing and publishing .....	37.9	37.7	37.8	37.6	37.7	37.9	37.8	37.9	37.6	37.8	37.8	37.8	37.5
Chemicals and allied products .....	42.6	42.1	42.5	42.5	42.4	42.5	42.4	42.3	42.7	42.7	42.3	42.4	42.6
Petroleum and coal products .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Rubber and misc. plastics products .....	41.6	41.5	41.5	41.4	41.5	41.5	41.4	41.2	40.8	40.9	41.1	41.2	40.9
Leather and leather products .....	38.3	37.4	37.9	37.7	38.1	38.1	37.7	37.5	37.2	37.4	38.0	37.8	37.1
<b>Transportation and public utilities</b> .....	40.1	39.5	39.4	39.4	39.0	39.3	39.3	39.1	39.3	39.1	39.3	39.4	39.7
<b>Wholesale trade</b> .....	38.3	37.9	38.0	38.1	38.0	38.1	38.1	38.1	38.0	38.0	38.1	38.1	38.2
<b>Retail trade</b> .....	29.1	28.9	28.9	29.2	28.8	28.8	29.0	28.8	28.7	28.8	28.9	28.9	29.0
<b>Finance, insurance, and real estate</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Services</b> .....	32.8	32.5	32.5	32.8	32.6	32.7	32.8	32.6	32.6	32.5	32.6	32.7	32.7

<sup>1</sup> Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

<sup>2</sup> These series are not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular

components and consequently cannot be separated with sufficient precision.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA  
HOURS  
SEASONALLY ADJUSTED**

**C-6. Indexes of aggregate weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted**

(1977 = 100)

Industry	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>P</sup>	Apr. <sup>P</sup>
<b>Total private</b> .....	128.7	127.6	128.1	129.2	128.5	128.9	129.2	129.1	128.8	129.5	130.2	130.3	130.2
<b>Goods-producing</b> .....	103.5	102.4	102.5	103.0	103.3	102.7	102.4	102.5	101.1	102.2	102.9	102.3	100.9
<b>Mining</b> .....	83.4	81.8	81.2	80.3	84.4	85.3	85.5	86.2	85.3	87.1	87.8	87.5	88.2
<b>Construction</b> .....	141.0	138.2	139.3	142.7	143.5	143.1	143.8	145.8	139.5	149.5	150.6	146.7	139.9
<b>Manufacturing</b> .....	97.2	96.4	96.4	96.3	96.4	95.8	95.2	94.8	94.5	93.7	94.3	94.4	93.9
<b>Durable goods</b> .....	95.2	94.3	94.0	93.8	94.0	93.3	92.2	91.9	91.6	90.3	91.7	91.9	91.3
Lumber and wood products .....	105.9	103.7	103.4	102.6	103.6	103.0	104.2	103.9	103.2	105.1	102.5	103.7	102.9
Furniture and fixtures .....	114.6	112.9	112.6	113.2	111.9	111.6	109.9	110.2	109.1	110.5	109.7	108.9	109.4
Stone, clay, and glass products .....	91.0	89.3	89.8	90.0	90.2	88.8	89.6	90.0	87.7	89.6	89.4	88.4	88.0
Primary metal industries .....	68.6	68.2	68.5	67.9	67.6	66.7	65.9	65.6	65.6	64.8	64.9	65.0	63.8
Blast furnaces and basic steel products .....	52.4	52.3	52.6	52.0	53.0	51.9	51.1	50.8	51.1	51.3	50.6	50.2	50.2
Fabricated metal products .....	92.2	91.7	90.8	90.7	90.4	90.0	89.7	89.1	88.5	86.7	88.0	88.9	88.1
Machinery, except electrical .....	93.9	93.7	93.8	94.0	93.2	93.1	92.0	92.7	92.4	92.7	92.9	91.9	91.1
Electrical and electronic equipment .....	99.7	98.4	97.8	97.6	98.0	98.0	97.1	96.6	95.0	95.7	96.4	96.9	96.4
Transportation equipment .....	101.2	100.5	99.5	98.6	100.5	98.5	94.3	92.7	95.0	85.7	93.5	95.3	94.8
Motor vehicles and equipment .....	91.1	90.2	88.1	85.7	90.1	87.0	84.7	82.3	82.4	67.0	80.3	82.3	80.3
Instruments and related products .....	116.4	115.8	116.1	116.9	115.8	115.8	116.1	115.2	114.4	115.2	115.0	115.0	116.4
Miscellaneous manufacturing .....	87.1	86.6	86.2	85.7	86.8	85.8	86.0	86.2	86.3	87.7	87.6	86.5	84.9
<b>Nondurable goods</b> .....	100.1	99.5	99.9	100.1	99.9	99.7	99.6	99.2	98.7	98.8	98.3	97.9	97.7
Food and kindred products .....	103.8	103.3	104.3	106.4	105.2	106.2	105.9	105.5	105.0	105.1	104.7	104.7	104.4
Tobacco manufactures .....	73.0	69.6	69.0	70.5	68.7	69.0	67.6	66.9	66.2	69.0	68.9	67.1	64.4
Textile mill products .....	82.1	81.5	81.5	81.3	80.4	79.1	79.5	78.8	78.1	78.3	77.2	76.3	75.8
Apparel and other textile products .....	86.8	85.4	85.2	84.9	84.9	84.5	84.0	83.6	82.4	82.5	81.5	79.6	79.9
Paper and allied products .....	102.4	102.3	102.3	102.7	103.4	101.9	102.8	102.8	102.1	102.5	102.0	102.1	102.4
Printing and publishing .....	138.2	137.8	138.3	137.7	138.3	138.7	138.3	139.3	138.8	140.0	140.3	140.2	138.8
Chemicals and allied products .....	100.9	100.5	101.8	101.5	101.8	101.5	101.8	101.5	102.8	102.6	101.5	101.4	102.1
Petroleum and coal products .....	82.9	83.5	84.3	83.2	83.4	84.1	85.6	85.3	85.6	83.9	85.5	87.6	86.8
Rubber and misc. plastics products .....	119.9	119.6	118.9	118.8	119.3	118.4	118.1	116.8	115.3	114.5	114.2	115.2	114.9
Leather and leather products .....	56.0	54.7	55.5	54.7	54.8	54.8	53.8	53.0	52.1	52.4	53.3	53.0	51.5
<b>Service-producing</b> .....	142.6	141.5	142.2	143.7	142.4	143.3	144.0	143.9	144.1	144.6	145.3	145.8	146.4
<b>Transportation and public utilities</b> .....	118.6	117.3	117.3	117.7	113.7	116.8	117.4	117.3	119.8	119.4	120.3	120.8	121.6
<b>Wholesale trade</b> .....	127.2	126.1	126.7	127.2	127.3	127.6	128.0	128.3	128.1	128.7	128.9	129.1	129.5
<b>Retail trade</b> .....	127.7	127.2	127.4	128.9	127.5	127.5	128.4	128.3	127.6	128.6	128.8	128.7	129.4
<b>Finance, insurance, and real estate</b> .....	143.8	141.9	142.7	145.0	143.3	143.8	145.0	143.8	144.1	144.3	145.2	145.4	147.2
<b>Services</b> .....	168.9	167.5	169.0	170.8	170.4	171.4	172.2	172.0	172.4	172.7	174.0	175.2	175.3

<sup>1</sup> Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

<sup>P</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA  
EARNINGS  
SEASONALLY ADJUSTED**

**C-7. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, seasonally adjusted**

Industry	1989									1990			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. <sup>p</sup>	Apr. <sup>p</sup>
<b>Average hourly earnings</b>													
<b>Total private</b> (in current dollars) .....	\$9.61	\$9.60	\$9.62	\$9.69	\$9.69	\$9.74	\$9.78	\$9.78	\$9.83	\$9.83	\$9.88	\$9.92	\$9.95
<b>Mining</b> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
<b>Construction</b> .....	\$13.33	\$13.32	\$13.32	\$13.42	\$13.37	\$13.39	\$13.44	\$13.52	\$13.60	\$13.34	\$13.43	\$13.47	\$13.39
<b>Manufacturing</b> .....	10.40	10.42	10.45	10.48	10.52	10.55	10.55	10.57	10.61	10.55	10.65	10.72	10.76
<b>Excluding overtime<sup>3</sup></b> .....	9.92	9.97	9.99	10.01	10.05	10.08	10.08	10.11	10.15	10.10	10.21	10.27	10.37
<b>Transportation and public utilities</b> .....	12.52	12.54	12.54	12.61	12.57	12.67	12.68	12.61	12.71	12.79	12.82	12.85	12.86
<b>Wholesale trade</b> .....	10.36	10.28	10.33	10.44	10.39	10.47	10.54	10.54	10.59	10.57	10.62	10.65	10.75
<b>Retail trade</b> .....	6.51	6.49	6.52	6.54	6.57	6.58	6.61	6.61	6.65	6.69	6.71	6.74	6.75
<b>Finance, insurance, and real estate</b> .....	9.54	9.45	9.53	9.68	9.57	9.66	9.77	9.67	9.79	9.75	9.78	9.82	9.92
<b>Services</b> .....	9.32	9.33	9.34	9.46	9.43	9.49	9.58	9.54	9.62	9.62	9.65	9.70	9.78
<b>Total private</b> (in constant dollars) <sup>4</sup> .....	4.80	4.77	4.77	4.79	4.80	4.81	4.81	4.79	4.80	4.74	4.74	4.75	( <sup>2</sup> )
<b>Average weekly earnings</b>													
<b>Total private:</b>													
In current dollars .....	335.39	332.16	332.85	337.21	335.27	337.98	339.37	338.39	339.14	339.14	341.85	343.23	344.27
In constant (1977) dollars <sup>4</sup> .....	167.44	165.17	165.10	166.85	165.98	166.74	166.85	165.80	165.51	163.68	164.11	164.22	( <sup>2</sup> )

<sup>1</sup> Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

<sup>2</sup> This series is not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

<sup>3</sup> Derived by assuming that overtime hours are paid at the rate of time and one-half.

<sup>4</sup> The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series.

<sup>5</sup> Not available.

<sup>p</sup> = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

**ESTABLISHMENT DATA  
STATE AND AREA HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Alabama</b> .....	41.2	40.8	40.9	\$9.15	\$9.24	\$9.36	\$376.98	\$376.99	\$382.82
Birmingham .....	40.7	40.9	41.2	9.69	9.53	9.48	394.38	389.78	390.58
Mobile .....	41.3	41.0	41.8	11.06	11.55	11.43	456.78	473.55	477.77
<b>Alaska</b> .....	49.2	41.7	45.7	10.55	12.18	12.31	519.06	507.91	562.57
<b>Arizona</b> .....	40.9	41.0	41.1	9.85	10.11	10.18	402.87	414.51	418.40
<b>Arkansas</b> .....	39.8	40.8	40.6	8.15	8.41	8.48	324.37	343.13	344.29
Fayetteville-Springdale .....	38.9	41.8	39.5	7.30	7.49	7.62	283.97	313.08	300.99
Fort Smith .....	37.8	39.2	40.1	8.60	8.73	8.67	325.08	342.22	347.67
Little Rock-North Little Rock .....	40.1	40.9	40.9	8.65	9.14	9.14	346.87	373.83	373.83
Pine Bluff .....	42.8	43.3	43.8	10.12	10.71	10.68	433.14	463.74	467.78
<b>California</b> .....	41.0	40.3	40.6	11.04	11.30	11.37	452.64	455.39	461.62
Anaheim-Santa Ana .....	42.6	41.2	41.5	11.14	11.39	11.38	474.56	469.27	472.27
Bakersfield .....	39.7	39.9	39.5	12.03	12.26	12.24	477.59	489.17	483.48
Fresno .....	38.7	38.7	39.6	9.20	9.34	9.51	356.04	361.46	376.60
Los Angeles-Long Beach .....	41.4	40.7	41.2	10.49	11.11	11.16	434.29	452.18	459.79
Modesto .....	40.7	38.3	38.4	10.26	10.44	10.61	417.58	399.85	407.42
Oakland .....	41.2	41.5	42.1	13.30	13.38	13.50	547.96	555.27	568.35
Oxnard-Ventura .....	41.1	40.8	40.5	10.39	10.92	10.80	427.03	445.54	437.40
Riverside-San Bernardino .....	41.0	39.6	40.0	9.91	10.22	10.37	406.31	404.71	414.80
Sacramento .....	39.3	39.2	40.1	11.26	11.56	11.58	442.52	453.15	464.36
San Diego .....	41.2	40.2	40.2	11.14	11.36	11.37	458.97	456.67	457.07
San Francisco .....	38.4	39.6	39.8	13.05	12.84	12.89	501.12	508.46	513.02
San Jose .....	40.1	40.3	40.2	13.09	13.50	13.49	524.91	544.05	542.30
Santa Barbara-Santa Maria-Lompoc .....	39.6	40.4	40.3	11.23	11.66	11.59	444.71	471.06	467.08
Santa Rosa-Petaluma .....	37.3	37.3	35.2	10.50	11.18	11.32	391.65	417.01	398.46
Stockton .....	41.3	40.7	40.6	10.87	11.06	11.14	448.93	450.14	452.28
Vallejo-Fairfield-Napa .....	40.1	38.4	38.3	13.21	13.32	13.33	529.72	511.49	510.54
<b>Colorado</b> .....	39.7	40.5	40.9	10.41	10.61	10.82	413.28	429.71	442.54
Denver .....	40.4	40.0	39.7	11.61	12.05	12.07	469.04	482.00	479.18
<b>Connecticut</b> .....	42.4	42.7	42.7	11.12	11.38	11.39	471.49	485.93	486.35
Bridgeport-Milford .....	42.3	42.1	42.1	11.52	12.16	11.99	497.30	511.94	504.78
Hartford .....	43.0	42.8	42.9	11.63	12.25	12.29	500.09	524.30	527.24
New Britain .....	43.1	42.3	42.0	11.59	12.21	12.14	499.53	516.48	509.88
New Haven-Meriden .....	41.4	41.7	41.6	10.84	10.86	10.87	448.78	452.86	452.19
Stamford .....	43.9	40.9	41.3	11.97	11.85	12.28	525.48	484.67	507.16
Waterbury .....	42.6	42.2	41.8	9.81	10.45	10.46	417.91	440.99	437.23
<b>Delaware</b> .....	41.3	41.0	41.5	12.54	12.53	12.78	517.90	513.73	530.37
Wilmington .....	43.4	42.7	43.1	15.10	15.15	15.59	655.34	646.91	671.93
<b>District of Columbia:</b>									
Washington MSA .....	39.4	39.0	39.4	11.57	12.29	12.43	455.86	479.31	489.74
<b>Florida</b> .....	40.7	41.3	41.2	8.62	8.78	8.86	350.83	362.61	365.03
Fort Lauderdale-Hollywood-Pompano Beach .....	41.8	42.0	41.5	8.52	8.87	8.95	356.14	372.54	371.43
Jacksonville .....	41.3	40.0	39.9	9.19	9.38	9.53	379.55	375.20	380.25
Miami-Hialeah .....	40.4	40.3	40.5	7.08	7.37	7.37	286.03	297.01	298.49
Orlando .....	41.2	40.7	40.1	9.56	10.19	10.23	393.87	414.73	410.22
Pensacola .....	44.5	42.7	43.6	11.18	11.55	11.76	497.51	493.19	512.74
Tampa-St. Petersburg-Clearwater .....	40.7	40.7	41.3	8.59	9.09	9.12	349.61	369.96	376.66
West Palm Beach-Boca Raton-Delray Beach .....	42.0	42.6	40.7	9.60	9.74	9.56	403.20	414.92	389.09
<b>Georgia</b> .....	40.8	40.3	40.4	8.76	9.05	9.10	357.41	364.72	367.64
Atlanta .....	41.9	42.9	41.9	10.00	10.08	10.30	419.00	432.43	431.57
Savannah .....	43.1	45.1	46.0	11.58	11.53	11.25	499.10	520.00	517.50
<b>Hawaii</b> .....	40.4	40.0	39.5	10.37	10.86	10.95	418.95	434.40	432.53
Honolulu .....	41.4	39.5	40.1	10.58	11.00	11.11	438.01	434.50	445.51
<b>Idaho</b> .....	37.5	39.0	38.5	9.90	10.46	10.30	371.25	407.94	396.55

See footnotes at end of table.



**ESTABLISHMENT DATA**  
**STATE AND AREA HOURS AND EARNINGS**  
**NOT SEASONALLY ADJUSTED**

**C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>a</sup>
<b>Illinois</b> .....	42.2	41.0	41.5	\$11.15	\$11.30	\$11.33	\$470.53	\$463.30	\$470.20
Aurora-Elgin .....	41.8	41.4	41.8	10.69	10.71	10.70	446.84	443.39	447.26
Bloomington-Normal .....	38.7	39.9	40.3	11.35	12.17	12.08	439.25	485.58	486.82
Champaign-Urbana-Rantoul .....	37.9	39.9	41.4	9.60	9.87	9.75	363.84	393.81	403.65
Chicago .....	42.5	40.6	41.6	10.86	11.11	11.15	461.55	451.07	463.84
Davenport-Rock Island-Moline .....	43.0	41.3	41.1	12.45	13.49	13.37	535.35	557.14	549.51
Decatur .....	44.2	44.8	44.9	14.39	14.36	14.50	636.04	643.33	651.05
Joliet .....	41.1	42.0	42.2	11.58	12.97	12.90	475.94	544.74	544.38
Kankakee .....	43.6	42.0	42.5	11.38	11.77	11.75	496.17	494.34	499.38
Lake County .....	40.9	40.0	40.1	11.16	11.68	11.80	456.44	467.20	473.18
Peoria .....	42.9	43.1	41.2	13.11	13.74	13.59	562.42	592.19	559.91
Rockford .....	45.1	41.2	41.5	12.20	12.19	12.21	550.22	502.23	506.72
Springfield .....	41.8	36.5	38.0	10.01	9.86	9.74	418.42	359.89	370.12
<b>Indiana</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Iowa</b> .....	41.0	40.2	40.6	10.77	11.10	11.22	441.57	446.22	455.53
Cedar Rapids .....	39.4	37.9	38.5	12.40	12.70	13.05	488.56	481.33	502.43
Des Moines .....	43.6	40.6	41.1	12.41	12.13	12.48	541.08	492.48	512.93
Dubuque .....	39.5	40.3	40.0	11.68	11.82	11.87	461.36	476.35	474.80
Sioux City .....	37.6	38.1	38.5	8.38	8.63	8.71	315.09	328.80	335.34
<b>Kansas</b> .....	40.9	39.9	40.1	10.72	10.78	10.82	438.45	430.12	433.88
Topeka .....	41.8	41.1	41.1	12.07	11.75	11.78	504.53	482.93	484.16
Wichita .....	41.9	40.7	40.9	11.30	11.90	11.94	473.47	484.33	488.35
<b>Kentucky</b> .....	40.3	39.9	40.1	10.38	10.54	10.57	418.31	420.55	423.86
Lexington-Fayette .....	41.3	41.4	40.9	10.46	10.77	10.96	432.00	445.88	448.26
Louisville .....	40.9	40.5	40.9	11.86	12.08	12.08	485.07	489.24	494.07
<b>Louisiana</b> .....	42.3	42.4	42.8	11.23	11.44	11.67	475.03	485.06	499.48
Baton Rouge .....	44.0	43.0	44.0	13.33	13.33	13.54	586.52	573.19	595.76
New Orleans .....	41.1	42.0	42.6	10.82	11.01	11.25	444.70	462.42	479.25
Shreveport .....	41.9	41.4	40.7	11.41	11.33	11.67	478.08	469.06	474.97
<b>Maine</b> .....	40.1	40.3	40.9	9.62	10.38	10.44	385.76	418.31	427.00
Lewiston-Auburn .....	39.8	39.0	39.4	8.01	9.13	9.13	318.80	356.07	359.72
Portland .....	40.1	38.3	38.8	10.32	10.44	10.54	413.83	399.85	408.95
<b>Maryland</b> .....	40.8	40.3	40.4	11.23	11.46	11.49	458.18	461.84	464.20
Baltimore MSA .....	41.0	40.6	40.9	11.54	11.89	11.92	473.14	482.73	487.53
<b>Massachusetts</b> .....	40.8	40.7	40.5	10.69	11.18	11.17	436.15	455.03	452.39
Boston .....	41.2	40.5	40.6	11.49	11.82	11.86	473.39	478.71	481.52
Springfield .....	41.7	41.8	41.6	10.28	10.55	10.63	428.68	440.99	442.21
Worcester .....	41.4	41.1	41.2	10.58	10.97	11.03	438.01	450.87	454.44
<b>Michigan</b> .....	43.7	40.6	41.9	13.51	13.52	13.73	590.39	548.91	575.29
Ann Arbor .....	44.5	42.2	44.3	14.26	14.33	14.82	634.57	604.73	656.53
Battle Creek .....	45.0	41.8	42.4	14.66	14.32	14.22	659.70	598.58	602.93
Detroit .....	44.7	41.3	43.0	14.56	14.57	14.77	650.83	601.74	635.11
Flint .....	43.3	40.6	41.5	16.76	17.21	17.51	725.71	698.73	726.66
Grand Rapids .....	41.6	40.2	40.3	11.59	11.68	11.86	482.14	469.54	477.96
Jackson .....	43.2	40.3	41.2	10.52	10.64	10.80	454.46	428.79	444.96
Kalamazoo .....	42.6	40.6	40.2	12.88	13.29	14.04	548.69	539.57	564.41
Lansing-East Lansing .....	46.5	36.0	38.3	14.68	14.59	15.43	682.62	525.24	590.97
Muskegon .....	41.2	41.0	41.2	12.38	12.42	12.30	510.06	509.22	506.76
Saginaw-Bay City-Midland .....	44.1	41.2	43.3	15.41	15.39	15.72	679.58	634.07	680.68
<b>Minnesota</b> .....	40.6	40.0	40.0	10.87	11.19	11.20	441.32	447.60	448.00
Duluth .....	39.1	39.4	40.1	11.26	12.06	12.09	440.27	475.16	484.81
Minneapolis-St. Paul .....	40.8	40.0	40.2	11.42	11.73	11.78	465.94	469.20	473.56
St. Cloud .....	40.6	40.8	41.1	10.16	9.91	9.88	412.50	404.33	406.07
<b>Mississippi</b> .....	40.1	39.6	39.3	8.02	8.28	8.29	321.60	327.89	325.80
Jackson .....	40.0	40.7	40.6	9.04	9.36	9.20	361.60	380.95	373.52

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Missouri</b> .....	39.7	40.6	40.3	\$10.36	\$10.68	\$10.68	\$411.29	\$433.61	\$430.40
Kansas City .....	41.4	40.6	40.3	11.53	11.16	11.22	477.34	453.10	452.17
St. Louis .....	40.5	42.3	42.3	12.19	12.71	12.72	493.70	537.63	538.06
Springfield .....	38.1	39.0	39.4	8.94	9.10	9.25	340.61	354.90	364.45
<b>Montana</b> .....	39.6	38.6	38.0	10.97	11.46	11.39	434.41	442.36	432.82
<b>Nebraska</b> .....	40.6	39.9	39.8	9.49	9.54	9.56	385.29	380.65	380.49
Lincoln .....	40.4	39.6	39.2	10.44	10.80	10.84	421.78	427.68	424.93
Omaha .....	41.0	40.8	40.0	10.31	10.27	10.23	422.71	419.02	409.20
<b>Nevada</b> .....	40.9	39.7	40.7	10.12	11.00	10.88	413.91	436.70	442.82
Las Vegas .....	42.1	41.8	42.3	13.08	13.07	13.02	550.67	546.33	550.75
<b>New Hampshire</b> .....	41.2	40.9	41.4	10.19	10.74	10.71	419.83	439.27	443.39
Manchester .....	40.2	42.7	41.9	10.24	10.69	10.67	411.65	456.46	447.07
Nashua .....	41.2	40.4	40.9	12.19	13.39	13.31	502.23	540.96	544.38
Portsmouth-Dover-Rochester .....	41.3	40.9	42.1	9.55	10.14	10.02	394.42	414.73	421.84
<b>New Jersey</b> .....	40.9	41.1	41.1	11.03	11.52	11.52	451.13	473.47	473.47
<b>New Mexico</b> .....	41.3	40.4	40.6	8.66	8.97	8.86	357.66	362.39	359.72
Albuquerque .....	40.8	38.8	39.2	8.51	8.91	9.03	347.21	345.71	353.98
<b>New York</b> .....	40.1	39.8	39.8	10.59	10.90	10.95	424.66	433.82	435.81
Albany-Schenectady-Troy .....	41.2	41.3	41.5	11.26	11.69	11.63	463.91	482.80	482.65
Binghamton .....	41.4	40.6	40.5	9.29	9.65	9.59	384.61	391.79	388.40
Buffalo .....	42.3	41.2	41.2	12.87	13.04	13.16	544.40	537.25	542.19
Elmira .....	41.0	40.6	40.2	9.63	9.49	9.55	394.83	385.29	383.91
Glens Falls .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Nassau-Suffolk .....	39.7	40.5	40.4	11.30	11.71	11.58	448.61	474.26	467.83
New York PMSA .....	37.4	37.2	37.2	9.84	10.24	10.24	368.02	380.93	380.93
New York City .....	37.1	36.7	36.9	9.73	10.06	10.14	360.98	369.20	374.17
Niagara Falls .....	41.4	40.1	40.0	13.86	13.78	13.77	573.80	552.58	550.80
Orange County .....	38.7	40.8	39.1	8.63	9.38	9.51	333.98	382.70	371.84
Poughkeepsie .....	40.7	39.9	40.3	10.49	11.17	11.09	426.94	445.68	446.93
Rochester .....	42.8	42.4	42.1	12.12	12.39	12.52	518.74	525.34	527.09
Rockland County .....	38.0	41.1	40.0	9.24	8.68	8.68	351.12	356.75	347.20
Syracuse .....	41.3	40.8	41.3	12.18	11.93	12.06	503.03	486.74	498.08
Utica-Rome .....	40.8	41.2	41.3	9.76	10.25	10.30	398.21	422.30	425.39
Westchester County .....	40.5	40.3	39.5	11.03	12.13	11.62	446.72	488.84	458.99
<b>North Carolina</b> .....	40.1	39.6	39.6	8.36	8.62	8.67	335.24	341.35	343.33
Asheville .....	41.7	41.3	40.5	8.32	8.64	8.58	346.94	356.83	347.49
Charlotte-Gastonia-Rock Hill .....	40.8	39.6	39.3	8.83	9.18	9.21	360.26	363.53	361.95
Greensboro-Winston-Salem-High Point .....	39.1	38.7	38.5	9.01	9.18	9.23	352.29	355.27	355.36
Raleigh-Durham .....	40.5	41.9	42.0	9.38	9.77	9.79	379.89	409.36	411.18
<b>North Dakota</b> .....	38.1	39.8	38.3	8.63	8.82	8.84	328.80	351.04	338.57
Fargo-Moorhead .....	37.7	38.5	36.7	9.06	8.80	8.74	341.56	338.80	320.76
<b>Ohio</b> .....	42.9	41.9	42.3	12.24	12.38	12.51	525.10	518.72	529.17
Akron .....	42.8	42.5	42.7	11.58	11.68	11.73	495.62	496.40	500.87
Canton .....	41.9	42.2	42.2	11.09	11.23	11.23	464.67	473.91	473.91
Cincinnati .....	42.4	42.5	43.3	11.56	11.73	11.91	490.14	498.53	515.70
Cleveland .....	43.7	42.2	43.2	11.85	11.91	12.14	517.85	502.60	524.45
Columbus .....	41.6	42.1	41.9	11.87	12.36	12.39	493.79	520.36	519.14
Dayton-Springfield .....	43.3	41.7	41.7	13.05	13.07	13.20	565.07	545.02	550.44
Toledo .....	44.5	41.8	43.8	13.40	13.19	13.54	596.30	551.34	593.05
Youngstown-Warren .....	43.0	41.9	42.1	13.85	14.12	14.25	595.55	591.63	599.93
<b>Oklahoma</b> .....	40.2	41.1	41.6	10.53	10.63	10.85	423.31	436.89	451.36
Oklahoma City .....	42.2	40.9	40.6	11.69	11.56	12.34	493.32	472.80	501.00
Tulsa .....	40.6	40.7	40.5	10.09	11.30	11.40	409.65	459.91	461.70
<b>Oregon</b> .....	39.2	38.0	39.4	10.83	11.00	11.05	424.54	418.00	435.37
Eugene-Springfield .....	40.4	37.5	39.9	10.67	10.94	10.99	431.07	410.25	438.50
Portland .....	39.6	38.6	39.8	10.83	11.23	11.22	428.87	433.48	446.56
Salem .....	38.2	35.9	37.9	9.50	9.89	9.96	362.90	355.05	377.48

See footnotes at end of table.

**ESTABLISHMENT DATA**  
**STATE AND AREA HOURS AND EARNINGS**  
**NOT SEASONALLY ADJUSTED**

**C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Pennsylvania</b> .....	40.8	40.4	40.6	\$10.62	\$10.90	\$10.96	\$433.30	\$440.36	\$444.98
Allentown-Bethlehem .....	39.6	39.3	40.0	10.48	10.97	11.02	415.01	431.12	440.80
Altoona .....	40.0	39.3	39.2	9.36	9.36	9.43	374.40	367.85	369.66
Beaver County .....	43.7	43.2	42.9	10.67	10.85	10.87	466.28	468.72	466.32
Erie .....	41.9	43.3	44.2	11.24	11.46	11.42	470.96	496.22	504.76
Harrisburg-Lebanon-Carlisle .....	40.2	39.9	40.4	10.55	11.07	11.10	424.11	441.69	448.44
Johnstown .....	39.2	37.9	38.2	8.13	8.27	8.51	318.70	313.43	325.08
Lancaster .....	40.4	40.5	40.4	10.66	10.90	10.92	430.66	441.45	441.17
Philadelphia PMSA .....	40.4	40.4	40.2	11.62	11.91	11.92	469.45	481.16	479.18
Pittsburgh .....	41.9	41.8	41.6	11.24	11.23	11.37	470.96	469.41	472.99
Reading .....	40.3	41.2	41.0	11.14	11.33	11.38	448.94	466.80	466.58
Scranton-Wilkes-Barre .....	39.2	38.3	39.1	9.06	9.49	9.50	355.15	383.47	371.45
Sharon .....	42.2	41.2	42.6	11.71	11.77	11.87	494.16	484.92	505.66
State College .....	40.8	39.7	39.9	9.18	9.56	9.59	374.54	379.53	382.64
Williamsport .....	40.6	39.5	39.4	9.44	9.52	9.54	383.26	376.04	375.88
York .....	41.8	41.6	41.3	10.12	10.42	10.44	423.02	433.47	431.17
<b>Rhode Island</b> .....	39.6	39.7	39.7	8.99	9.31	9.35	356.00	369.61	371.20
Pawtucket-Woonsocket-Attleboro .....	40.1	39.1	39.2	8.38	8.69	8.70	336.04	339.78	341.04
Providence .....	39.0	39.2	39.3	8.49	8.82	8.84	331.11	345.74	347.41
<b>South Carolina</b> .....	41.4	41.1	41.0	8.42	8.70	8.73	348.59	357.57	357.93
Charleston .....	39.8	40.4	40.3	9.14	9.47	9.51	363.77	382.59	383.25
Columbia .....	41.3	41.7	41.9	8.64	8.88	8.92	356.83	370.30	373.75
Greenville-Spartanburg .....	40.7	41.4	41.4	8.23	8.61	8.62	334.96	356.45	356.87
<b>South Dakota</b> .....	41.6	39.6	40.6	8.14	8.31	8.38	338.62	329.08	340.23
Sioux Falls .....	45.1	43.7	45.6	8.08	8.17	8.66	364.41	357.03	394.90
<b>Tennessee</b> .....	41.1	38.3	38.6	9.22	9.40	9.35	378.94	360.02	360.91
Chattanooga .....	40.6	40.1	39.2	8.21	8.45	8.48	334.97	338.85	332.42
Johnson City-Kingsport-Bristol .....	42.1	40.5	40.4	9.67	8.88	8.94	407.11	359.64	361.18
Knoxville .....	40.4	35.6	37.7	8.96	9.03	8.44	361.98	321.47	318.19
Memphis .....	42.8	39.6	40.3	9.37	9.61	9.51	401.04	380.56	383.25
Nashville .....	41.6	41.4	41.4	10.80	10.87	11.02	449.28	450.02	456.23
<b>Texas</b> .....	41.8	41.4	41.4	10.22	10.36	10.42	427.20	428.90	431.39
Dallas .....	42.5	42.4	42.0	10.38	10.54	10.52	441.15	446.90	441.84
Ft. Worth-Arlington .....	41.0	41.1	41.3	10.93	11.19	11.18	448.13	459.91	461.73
Houston .....	44.6	43.7	43.5	11.74	11.98	12.06	523.60	523.53	524.61
San Antonio .....	39.7	41.5	41.0	7.63	7.51	7.64	302.91	311.67	313.24
<b>Utah</b> .....	39.7	40.3	39.8	10.02	10.26	10.27	397.79	413.48	408.75
Salt Lake City-Ogden .....	39.5	40.5	40.3	9.87	10.13	10.17	389.87	410.27	409.85
<b>Vermont</b> .....	40.6	40.6	41.2	9.95	10.40	10.40	403.97	422.24	428.48
Burlington .....	41.0	40.0	41.3	10.38	11.05	11.06	425.58	442.00	456.78
<b>Virginia</b> .....	40.4	40.2	40.4	9.59	9.91	9.99	387.44	398.38	403.60
Bristol .....	41.2	41.2	37.0	7.94	7.93	8.31	327.13	326.72	307.47
Charlottesville .....	39.9	42.6	43.0	8.15	8.73	8.81	325.19	371.90	378.83
Danville .....	41.6	40.3	41.5	9.54	9.50	9.52	396.86	382.85	395.08
Lynchburg .....	42.1	40.7	40.9	9.40	9.81	9.78	395.74	399.27	400.00
Northern Virginia .....	38.6	40.8	41.5	10.57	10.99	11.13	408.00	448.39	461.90
Richmond-Petersburg .....	41.6	42.0	42.4	12.37	12.79	12.87	514.59	537.18	545.89
Roanoke .....	40.9	41.6	40.5	10.92	11.83	11.91	446.63	492.13	482.36
<b>Washington</b> .....	41.0	39.5	40.1	12.19	12.65	12.60	499.79	499.68	505.26
<b>West Virginia</b> .....	40.5	40.4	40.5	10.97	11.32	11.27	444.29	457.33	456.44
Charleston .....	42.2	43.5	43.0	13.73	13.49	13.45	579.41	586.82	578.35
Huntington-Ashland .....	41.7	41.2	41.7	12.79	13.19	13.13	533.34	543.43	547.52
Parkersburg-Marietta .....	42.0	41.2	40.8	12.91	12.78	12.92	542.22	526.54	527.14
Wheeling .....	41.9	41.0	41.7	13.28	13.29	13.47	556.43	544.89	561.70

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA HOURS AND EARNINGS  
NOT SEASONALLY ADJUSTED**

**C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Wisconsin</b> .....	41.5	41.2	41.4	\$10.76	\$11.03	\$11.12	\$446.54	\$454.44	\$460.37
Appleton-Oshkosh .....	43.1	42.5	43.0	11.51	11.92	11.97	496.08	506.60	514.71
Eau Claire .....	40.6	44.6	44.1	10.68	11.09	11.21	433.61	494.61	494.36
Green Bay .....	40.7	40.8	40.9	11.35	11.84	12.01	461.95	483.07	491.21
Janesville-Beloit .....	43.8	42.3	41.8	13.18	12.08	12.82	577.28	510.98	535.88
Kenosha .....	41.9	41.4	42.7	12.48	11.54	11.76	522.91	477.76	502.15
La Crosse .....	40.7	39.2	39.4	9.54	9.85	9.67	388.28	386.12	381.00
Madison .....	40.5	39.4	40.0	10.03	10.57	10.55	406.22	416.46	422.00
Milwaukee .....	41.6	41.8	41.7	11.58	11.79	11.85	481.73	492.82	494.15
Racine .....	39.4	38.6	39.3	10.73	11.20	11.22	422.76	432.32	440.95
Sheboygan .....	40.0	41.9	40.0	10.26	10.80	10.72	410.40	452.52	428.80
Wausau .....	42.2	41.7	42.1	10.31	10.68	10.83	435.08	445.36	455.94
<b>Wyoming</b> .....	40.3	39.8	39.9	10.39	10.84	10.96	418.72	431.43	437.30
<b>Puerto Rico</b> .....	40.1	( <sup>1</sup> )	( <sup>1</sup> )	5.69	( <sup>1</sup> )	( <sup>1</sup> )	228.17	( <sup>1</sup> )	( <sup>1</sup> )
<b>Virgin Islands</b> .....	42.5	42.8	42.1	10.49	11.66	11.47	445.83	499.05	482.89

<sup>1</sup> Not available.

<sup>P</sup> = preliminary.

NOTE: Area definitions are published annually in the May issue of this

publication. All State and area data have been adjusted to March 1989 benchmarks, and industry detail are classified in accordance with the 1987 *Standard Industrial Classification (SIC) Manual*.

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

**C-9. Hours of wage and salary workers in nonagricultural establishments by major industry, seasonally adjusted**

Industry	Millions of hours (annual rate) <sup>1</sup>			Percent change		
	Feb. 1990 <sup>r</sup>	Mar. 1990 <sup>r</sup>	Apr. 1990 <sup>p</sup>	Apr. 1989 to Apr. 1990 <sup>p</sup>	Feb. 1990 to Mar. 1990 <sup>r</sup>	Mar. 1990 to Apr. 1990 <sup>p</sup>
Total .....	204,854	204,995	203,780	0.8	0.1	-0.6
Private sector .....	168,636	168,630	168,440	1.1	.0	-.1
Mining .....	1,692	1,679	1,702	6.1	-.8	1.4
Construction .....	11,043	10,836	10,392	-2	-1.9	-4.1
Manufacturing .....	41,285	41,219	40,613	-3.5	-.2	-1.5
Durable goods .....	24,466	24,433	24,002	-4.3	-.1	-1.8
Nondurable goods .....	16,819	16,786	16,611	-2.2	-.2	-1.0
Transportation and public utilities .....	11,999	12,027	12,113	2.6	.2	.7
Wholesale trade .....	12,552	12,571	12,622	2.0	.2	.4
Retail trade .....	29,764	29,757	30,043	2.0	.0	1.0
Finance, insurance, and real estate .....	12,917	12,854	13,048	2.0	-.5	1.5
Services .....	47,383	47,687	47,906	3.9	.6	.5
Government .....	36,219	36,365	35,340	-.4	.4	-2.8

<sup>1</sup> Total hours paid for 1 week in the month, seasonally adjusted, multiplied by 52.

<sup>p</sup> = preliminary.

<sup>r</sup> = revised.

NOTE: Data refer to hours of all employees—production workers,

nonsupervisory workers, and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods*, BLS Bulletin 2285, chapter 10, Productivity Measures: Business Sector and Major Subsectors. SOURCE: Office of Productivity and Technology (202 523 9261).

C-10. Indexes of productivity, hourly compensation, unit costs, and prices, seasonally adjusted

(1977 = 100)

Item	Annual average		Quarterly index										
	1988	1989 <sup>r</sup>	1987		1988				1989				1990
			III	IV	I	II	III	IV	I	II	III	IV <sup>r</sup>	
<b>Business sector</b>													
Output per hour of all persons .....	113.0	114.2	111.7	112.5	113.2	112.6	113.4	113.5	113.8	114.2	114.7	114.8	114.6
Output .....	140.0	144.8	134.4	136.7	138.2	139.3	140.7	141.9	143.6	144.4	145.6	145.7	146.7
Hours .....	123.9	126.8	120.3	121.5	122.1	123.8	124.0	125.0	126.2	126.4	127.0	127.0	128.0
Compensation per hour .....	200.2	211.2	191.8	195.1	196.4	199.1	201.9	204.5	206.9	210.4	212.8	215.7	218.1
Real compensation per hour .....	102.5	103.2	101.6	102.5	102.3	102.6	102.8	103.0	102.8	103.0	103.5	103.9	103.0
Unit labor costs .....	177.1	184.9	171.6	173.5	173.5	176.9	178.0	180.2	181.9	184.1	185.6	187.9	190.2
Unit nonlabor payments .....	170.9	175.8	168.9	167.2	168.9	168.8	171.8	173.7	174.7	176.3	176.5	175.8	178.5
Implicit price deflator .....	174.9	181.7	170.7	171.3	171.9	174.1	175.8	177.9	179.4	181.4	182.4	183.7	186.1
<b>Nonfarm business sector</b>													
Output per hour of all persons .....	111.1	112.1	109.5	110.2	111.0	110.5	111.5	112.0	111.6	111.9	112.6	112.7	112.5
Output .....	140.3	145.0	134.1	136.4	138.0	139.5	141.1	142.8	143.6	144.6	145.9	146.0	147.0
Hours .....	126.3	129.4	122.4	123.7	124.3	126.2	126.6	127.5	128.6	129.2	129.6	129.5	130.7
Compensation per hour .....	198.7	209.5	190.5	193.8	195.0	197.5	200.2	203.0	205.5	208.3	211.0	214.1	216.2
Real compensation per hour .....	101.8	102.4	101.0	101.8	101.5	101.8	101.9	102.3	102.1	102.0	102.6	103.1	102.1
Unit labor costs .....	178.8	186.9	173.9	175.8	175.7	178.7	179.6	181.3	184.1	186.1	187.4	189.9	192.2
Unit nonlabor payments .....	172.2	176.5	170.3	168.7	170.3	169.8	172.1	176.3	174.6	176.5	177.6	177.3	179.0
Implicit price deflator .....	176.5	183.3	172.6	173.4	173.8	175.6	177.0	179.6	180.8	182.8	184.0	185.6	187.7
<b>Manufacturing<sup>1</sup></b>													
Output per hour of all persons .....	136.0	138.7	134.2	134.5	135.1	136.0	137.3	137.8	138.6	139.5	139.0	140.1	141.5
Output .....	137.6	141.6	131.1	133.3	134.7	136.7	138.8	140.3	141.4	142.2	141.7	141.2	141.5
Hours .....	101.2	102.1	97.7	99.1	99.7	100.5	101.1	101.8	102.0	101.9	102.0	100.8	100.0
Compensation per hour .....	196.0	204.3	190.4	191.7	194.3	195.3	197.4	200.2	201.9	203.2	206.1	209.6	211.3
Real compensation per hour .....	100.4	99.9	100.9	100.6	101.2	100.6	100.5	100.8	100.3	99.5	100.3	101.0	99.8
Unit labor costs .....	144.1	147.3	141.8	142.5	143.8	143.6	143.7	145.2	145.6	145.6	148.3	149.7	149.3
<b>Durable goods<sup>1</sup></b>													
Output per hour of all persons .....	143.4	146.9	141.0	141.8	142.7	143.8	145.0	145.8	146.4	148.4	148.3	148.4	150.0
Output .....	145.6	150.0	136.4	139.8	141.6	144.5	147.0	149.1	150.0	151.0	150.4	148.8	149.1
Hours .....	101.5	102.1	96.7	98.6	99.2	100.5	101.4	102.3	102.4	101.7	101.4	100.2	99.4
Compensation per hour .....	192.6	200.4	188.9	189.8	192.6	192.4	193.9	196.9	198.8	199.6	202.7	206.3	207.3
Real compensation per hour .....	98.7	97.9	100.1	99.7	100.3	99.1	98.7	99.2	98.8	97.8	98.6	99.4	97.9
Unit labor costs .....	134.4	136.5	134.0	133.9	134.9	133.8	133.8	135.1	135.7	134.5	136.7	139.0	138.2
<b>Nondurable goods<sup>1</sup></b>													
Output per hour of all persons .....	125.0	126.6	124.4	123.7	124.0	124.4	125.8	125.8	126.9	126.4	125.4	127.8	129.0
Output .....	125.8	129.1	123.1	123.5	124.4	124.9	126.6	127.1	128.6	129.1	128.8	130.0	130.2
Hours .....	100.6	102.0	99.0	99.8	100.4	100.4	100.6	101.0	101.3	102.2	102.8	101.7	101.0
Compensation per hour .....	201.8	211.2	193.3	195.2	197.5	200.5	203.4	205.7	207.2	209.7	212.4	215.7	218.6
Real compensation per hour .....	103.4	103.2	102.5	102.5	102.9	103.3	103.5	103.6	103.0	102.7	103.3	103.9	103.3
Unit labor costs .....	161.4	166.8	155.4	157.8	159.3	161.2	161.6	163.4	163.3	165.9	169.4	168.8	169.5
<b>Nonfinancial corporations</b>													
Output per all-employee hour .....	114.7	114.8	113.0	113.5	114.6	114.7	115.1	114.9	114.5	114.5	115.3	115.2	( <sup>2</sup> )
Output .....	143.5	147.1	136.9	138.9	141.2	142.8	144.3	145.4	145.8	146.5	148.1	148.1	( <sup>2</sup> )
Hours .....	125.1	128.2	121.1	122.4	123.2	124.5	125.4	126.5	127.4	128.0	128.4	128.6	( <sup>2</sup> )
Compensation per hour .....	194.1	204.0	186.9	189.5	190.9	193.1	195.5	197.8	200.2	202.8	205.5	208.5	( <sup>2</sup> )
Real compensation per hour .....	99.4	99.7	99.1	99.5	99.4	99.5	99.5	99.6	99.5	99.3	99.9	100.4	( <sup>2</sup> )
Total unit costs .....	174.6	183.8	170.8	172.1	171.9	173.6	175.2	177.5	180.4	182.9	184.6	187.3	( <sup>2</sup> )
Unit labor costs .....	169.3	177.8	165.3	167.0	166.6	168.4	169.9	172.1	174.9	177.1	178.1	181.0	( <sup>2</sup> )
Unit nonlabor costs .....	190.3	201.7	186.9	187.2	187.8	188.9	191.0	193.3	196.9	200.1	203.9	205.7	( <sup>2</sup> )
Unit profits .....	128.8	113.9	129.3	122.0	127.0	129.1	127.5	131.6	119.6	116.6	113.5	106.1	( <sup>2</sup> )
Implicit price deflator .....	169.1	175.5	165.8	166.1	166.5	168.2	169.5	172.0	173.1	175.0	176.1	177.5	( <sup>2</sup> )

<sup>1</sup> For manufacturing, productivity and related measures are revised back to 1947 to take account of changes in the Indexes of Industrial Production for durable and nondurable manufactures, introduced by the Federal Reserve Board on April 17.

<sup>2</sup> Not available.

<sup>p</sup> = preliminary.

<sup>r</sup> = revised.

SOURCE: Office of Productivity and Technology (202 523 9261).

**PRODUCTIVITY DATA  
SEASONALLY ADJUSTED**

**C-11. Percent changes from the preceding quarter and year in productivity, hourly compensation, unit costs, and prices, seasonally adjusted annual rates**

Item	Percent change from											
	Previous quarter						Same quarter, previous year					
	IV 1988	I 1989	II 1989	III 1989	IV 1989 <sup>r</sup>	I 1990 <sup>p</sup>	IV 1988	I 1989	II 1989	III 1989	IV 1989 <sup>r</sup>	I 1990 <sup>p</sup>
<b>Business sector</b>												
Output per hour of all persons .....	0.2	1.1	1.6	1.5	0.4	-0.5	0.9	0.5	1.5	1.1	1.1	0.8
Output .....	3.4	4.8	2.3	3.5	.3	2.7	3.8	3.9	3.6	3.5	2.7	2.2
Hours .....	3.2	3.7	.6	1.9	.0	3.1	2.9	3.3	2.1	2.4	1.6	1.4
Compensation per hour .....	5.2	4.8	6.8	4.7	5.6	4.5	4.8	5.4	5.6	5.4	5.5	5.4
Real compensation per hour .....	.8	-.6	.8	1.9	1.5	-3.4	.5	.6	.4	.7	.9	.2
Unit labor costs .....	5.0	3.7	5.1	3.2	5.2	4.9	3.9	4.8	4.1	4.2	4.3	4.6
Unit nonlabor payments .....	4.6	2.4	3.5	.4	-1.5	6.3	3.9	3.4	4.4	2.7	1.2	2.1
Implicit price deflator .....	4.8	3.3	4.6	2.2	2.9	5.4	3.9	4.3	4.2	3.7	3.2	3.8
<b>Nonfarm business sector</b>												
Output per hour of all persons .....	1.9	-1.3	1.1	2.4	.5	-1.0	1.6	.6	1.3	1.0	.7	.7
Output .....	4.8	2.4	2.8	3.7	.3	2.7	4.7	4.1	3.7	3.4	2.3	2.3
Hours .....	2.8	3.7	1.7	1.3	-.2	3.6	3.0	3.5	2.4	2.4	1.6	1.6
Compensation per hour .....	5.9	4.9	5.6	5.3	6.0	3.9	4.8	5.4	5.5	5.4	5.5	5.2
Real compensation per hour .....	1.5	-.5	-.4	2.4	1.9	-3.9	.5	.6	.3	.7	.8	.0
Unit labor costs .....	3.8	6.2	4.5	2.8	5.5	4.9	3.1	4.8	4.1	4.4	4.8	4.4
Unit nonlabor payments .....	10.1	-3.7	4.2	2.5	-.6	4.0	4.5	2.6	3.9	3.2	.6	2.5
Implicit price deflator .....	5.9	2.8	4.4	2.7	3.4	4.6	3.6	4.0	4.1	4.0	3.3	3.8
<b>Manufacturing<sup>1</sup></b>												
Output per hour of all persons .....	1.5	2.4	2.6	-1.6	3.1	4.1	2.5	2.6	2.6	1.2	1.6	2.1
Output .....	4.4	3.1	2.4	-1.4	-1.3	.8	5.3	4.9	4.1	2.1	.7	.1
Hours .....	2.9	.7	-.2	.1	-4.3	-3.2	2.7	2.3	1.4	.9	-.9	-1.9
Compensation per hour .....	5.7	3.5	2.7	5.9	7.0	3.2	4.4	3.9	4.0	4.4	4.7	4.7
Real compensation per hour .....	1.4	-1.9	-3.2	3.0	2.8	-4.5	.2	-.8	-1.1	-.2	.1	-.5
Unit labor costs .....	4.2	1.1	.0	7.6	3.7	-.9	1.9	1.3	1.4	3.2	3.1	2.6
<b>Durable goods<sup>1</sup></b>												
Output per hour of all persons .....	2.2	1.9	5.4	-.4	.5	4.4	2.8	2.6	3.2	2.3	1.8	2.5
Output .....	6.0	2.2	2.8	-1.7	-4.1	.9	6.6	5.9	4.5	2.3	-.2	-.6
Hours .....	3.8	.3	-2.5	-1.3	-4.6	-3.4	3.7	3.2	1.2	.0	-2.0	-3.0
Compensation per hour .....	6.3	3.8	1.7	6.4	7.3	2.0	3.8	3.2	3.8	4.5	4.8	4.3
Real compensation per hour .....	1.9	-1.5	-4.1	3.4	3.2	-5.7	-.5	-1.5	-1.4	-.1	.2	-.9
Unit labor costs .....	4.1	1.9	-3.6	6.8	6.8	-2.3	.9	.6	.5	2.2	2.9	1.8
<b>Nondurable goods<sup>1</sup></b>												
Output per hour of all persons .....	.1	3.3	-1.5	-3.2	8.0	3.8	1.7	2.3	1.6	-.4	1.5	1.7
Output .....	1.7	4.7	1.8	-1.0	3.7	.7	2.9	3.4	3.4	1.8	2.3	1.3
Hours .....	1.6	1.4	3.3	2.3	-4.0	-2.9	1.2	1.0	1.8	2.1	.7	-.4
Compensation per hour .....	4.6	2.9	4.9	5.4	6.4	5.4	5.4	4.9	4.6	4.5	4.9	5.5
Real compensation per hour .....	.3	-2.4	-1.1	2.5	2.3	-2.4	1.0	.1	-.6	-.2	.3	.3
Unit labor costs .....	4.5	-.3	6.5	8.9	-1.5	1.6	3.6	2.5	2.9	4.8	3.3	3.8
<b>Nonfinancial corporations</b>												
Output per all-employee hour .....	-.4	-1.7	.1	3.0	-.6	( <sup>2</sup> )	1.3	-.1	-.2	.2	.2	( <sup>2</sup> )
Output .....	3.2	1.0	2.0	4.3	.2	( <sup>2</sup> )	4.7	3.2	2.6	2.6	1.8	( <sup>2</sup> )
Hours .....	3.6	2.7	1.8	1.2	.9	( <sup>2</sup> )	3.4	3.4	2.8	2.3	1.6	( <sup>2</sup> )
Compensation per hour .....	4.8	4.9	5.4	5.4	6.0	( <sup>2</sup> )	4.4	4.9	5.0	5.1	5.4	( <sup>2</sup> )
Real compensation per hour .....	.5	-.5	-.6	2.5	1.9	( <sup>2</sup> )	.1	.1	-.2	.4	.8	( <sup>2</sup> )
Total unit costs .....	5.2	6.9	5.7	3.8	5.8	( <sup>2</sup> )	3.1	5.0	5.4	5.4	5.5	( <sup>2</sup> )
Unit labor costs .....	5.3	6.6	5.3	2.3	6.6	( <sup>2</sup> )	3.1	5.0	5.2	4.9	5.2	( <sup>2</sup> )
Unit nonlabor costs .....	4.9	7.5	6.7	7.7	3.7	( <sup>2</sup> )	3.3	4.9	5.9	6.7	6.4	( <sup>2</sup> )
Unit profits .....	13.3	-31.7	-9.7	-10.3	-23.6	( <sup>2</sup> )	7.9	-5.8	-9.7	-11.0	-19.4	( <sup>2</sup> )
Implicit price deflator .....	5.9	2.8	4.3	2.6	3.3	( <sup>2</sup> )	3.5	4.0	4.0	3.9	3.2	( <sup>2</sup> )

<sup>1</sup> For manufacturing, productivity and related measures are revised back to 1947 to take account of changes in the Indexes of Industrial Production for durable and nondurable manufactures, introduced by the Federal Reserve Board on April 17.

<sup>2</sup> Not available.  
<sup>p</sup> = preliminary.  
<sup>r</sup> = revised.

SOURCE: Office of Productivity and Technology (202 523 9261).

**STATE AND AREA LABOR FORCE DATA  
NOT SEASONALLY ADJUSTED**

**D-1. Labor force status by State and selected metropolitan areas**

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Alabama</b> .....	1,917.0	1,870.8	1,895.5	140.8	134.2	132.3	7.3	7.2	7.0
Birmingham .....	445.4	432.8	439.7	25.8	23.3	24.3	5.8	5.4	5.5
Huntsville .....	132.5	131.9	133.4	6.7	6.7	6.1	5.0	5.1	4.6
Mobile .....	215.4	204.6	207.9	19.8	14.9	13.7	9.2	7.3	6.6
Montgomery .....	140.4	136.1	137.9	8.4	8.3	7.9	6.0	6.1	5.8
Tuscaloosa .....	72.2	72.0	71.7	3.9	6.9	2.9	5.4	9.5	4.1
<b>Alaska</b> .....	244.5	253.4	252.2	19.7	22.3	19.9	8.1	8.8	7.9
<b>Arizona</b> .....	1,709.7	1,695.1	1,698.4	97.4	79.5	87.4	5.7	4.7	5.1
Phoenix .....	1,060.3	1,051.5	1,051.9	50.8	40.3	45.3	4.8	3.8	4.3
Tucson .....	318.4	308.5	308.1	15.6	11.6	12.7	4.9	3.8	4.1
<b>Arkansas</b> .....	1,121.3	1,152.4	1,131.2	82.9	82.1	83.1	7.4	7.1	7.3
Fayetteville-Springdale .....	62.2	64.8	63.8	2.3	2.0	2.3	3.7	3.1	3.6
Fort Smith .....	91.9	94.9	92.9	7.1	7.7	7.2	7.7	8.1	7.8
Little Rock-North Little Rock .....	265.3	276.7	269.0	16.1	15.7	15.9	6.1	5.7	5.9
Pine Bluff .....	37.7	37.8	37.2	3.0	2.9	3.0	8.0	7.7	8.0
<b>California<sup>1</sup></b> .....	14,269.3	14,433.3	14,545.3	667.8	771.8	765.9	4.7	5.3	5.3
Anaheim-Santa Ana .....	1,412.8	1,388.3	1,386.7	35.3	37.6	35.2	2.5	2.7	2.5
Bakersfield .....	235.7	227.8	228.2	26.8	25.4	26.0	11.4	11.1	11.4
Fresno .....	293.8	302.0	298.5	35.1	36.1	35.6	12.0	11.9	11.9
Los Angeles-Long Beach <sup>1</sup> .....	4,161.2	4,371.0	4,437.0	154.0	241.0	262.0	3.7	5.5	5.9
Modesto .....	156.0	155.1	154.4	19.1	19.0	18.2	12.3	12.2	11.8
Oakland .....	1,098.0	1,098.1	1,105.0	42.1	41.0	38.4	3.8	3.7	3.5
Oxnard-Ventura .....	362.0	360.0	365.7	14.2	15.7	14.7	3.9	4.4	4.0
Riverside-San Bernardino .....	999.9	1,019.9	1,030.2	46.4	56.0	52.2	4.6	5.5	5.1
Sacramento .....	718.5	720.0	724.2	35.0	33.8	31.2	4.9	4.7	4.3
San Diego .....	1,151.6	1,169.1	1,180.1	38.3	43.5	41.0	3.3	3.7	3.5
San Francisco .....	877.4	867.3	873.5	26.2	25.9	24.7	3.0	3.0	2.8
San Jose .....	844.5	819.4	816.0	29.7	29.2	27.8	3.5	3.6	3.4
Santa Barbara-Santa Maria-Lompoc .....	181.6	177.3	179.6	7.4	7.9	7.7	4.1	4.4	4.3
Santa Rosa-Petaluma .....	196.0	203.4	204.4	8.6	8.3	7.9	4.4	4.1	3.9
Stockton .....	193.6	189.9	189.1	19.8	19.7	18.0	10.2	10.4	9.5
Vallejo-Fairfield-Napa .....	189.7	192.1	193.3	9.7	9.5	9.4	5.1	4.9	4.9
<b>Colorado</b> .....	1,685.6	1,716.5	1,709.1	116.0	106.8	93.6	6.9	6.2	5.5
Boulder-Longmont .....	133.3	135.1	135.7	7.2	6.1	5.5	5.4	4.5	4.1
Denver .....	860.4	874.7	867.2	54.2	50.0	43.7	6.3	5.7	5.0
<b>Connecticut</b> .....	1,758.5	1,748.7	1,777.0	56.9	92.7	93.0	3.2	5.3	5.2
Bridgeport-Milford .....	229.5	226.8	230.2	9.8	15.2	15.0	4.3	6.7	6.5
Hartford .....	428.2	428.3	434.2	12.7	19.8	19.8	3.0	4.6	4.6
New Britain .....	74.4	73.5	75.1	2.8	4.8	4.7	3.7	6.6	6.3
New Haven-Meriden .....	276.8	274.6	278.6	8.2	14.0	14.0	3.0	5.1	5.0
Stamford .....	114.6	111.9	113.8	2.3	3.9	3.8	2.0	3.5	3.3
Waterbury .....	101.5	103.0	104.6	4.2	7.6	8.0	4.2	7.4	7.6
<b>Delaware</b> .....	356.9	361.3	362.2	13.4	18.6	16.0	3.7	5.2	4.4
Wilmington .....	311.0	315.4	315.9	11.7	15.6	13.5	3.8	5.0	4.3
<b>District of Columbia</b> .....	315.1	304.2	304.4	15.4	17.2	17.0	4.9	5.7	5.6
Washington .....	2,189.4	2,207.4	2,220.7	58.7	62.6	57.7	2.7	2.8	2.6
<b>Florida<sup>1</sup></b> .....	6,129.8	6,270.0	6,345.4	289.8	365.5	316.3	4.7	5.8	5.0
Daytona Beach .....	155.8	155.2	158.4	7.2	8.4	7.8	4.6	5.4	4.9
Fort Lauderdale-Hollywood-Pompano Beach .....	648.7	658.5	669.3	29.3	34.4	30.2	4.5	5.2	4.5
Fort Myers-Cape Coral .....	145.9	154.9	155.6	4.4	6.7	5.1	3.0	4.3	3.3
Gainesville .....	103.1	106.7	107.4	2.8	3.8	2.9	2.7	3.6	2.7
Jacksonville .....	441.0	452.0	454.9	22.0	26.7	23.2	5.0	5.9	5.1
Lakeland-Winter Haven .....	176.9	181.0	183.5	10.9	15.5	15.9	6.1	8.6	8.7
Melbourne-Titusville-Palm Bay .....	184.0	188.6	191.9	8.0	10.1	9.2	4.3	5.4	4.8
Miami-Hialeah .....	942.3	948.4	955.0	54.2	61.3	51.2	5.8	6.5	5.4
Orlando .....	595.9	610.9	618.4	26.1	33.0	27.8	4.4	5.4	4.5
Pensacola .....	144.8	145.6	146.3	8.2	9.1	7.4	5.7	6.2	5.1
Sarasota .....	122.0	124.9	126.3	3.9	5.5	4.3	3.2	4.4	3.4
Tallahassee .....	130.5	132.0	133.9	4.7	5.5	4.7	3.6	4.1	3.5
Tampa-St. Petersburg-Clearwater .....	989.7	1,005.1	1,016.8	41.8	51.1	44.8	4.2	5.1	4.4
West Palm Beach-Boca Raton-DeRay Beach .....	420.3	429.1	434.5	19.9	24.8	22.9	4.7	5.8	5.3

See footnotes at end of table.



**STATE AND AREA LABOR FORCE DATA  
NOT SEASONALLY ADJUSTED**

**D-1. Labor force status by State and selected metropolitan areas—Continued**

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Georgia</b> .....	3,171.5	3,216.8	3,218.5	167.8	160.0	152.5	5.3	5.0	4.7
Albany .....	52.6	52.5	52.2	3.6	3.3	3.2	6.8	6.3	6.1
Athens .....	76.8	78.3	77.9	2.9	3.2	3.0	3.8	4.1	3.9
Atlanta .....	1,503.1	1,528.7	1,529.2	76.2	70.8	66.4	5.1	4.6	4.3
Augusta .....	186.3	186.2	186.2	10.2	8.0	6.9	5.5	4.3	3.7
Columbus .....	98.6	97.2	96.9	5.2	5.3	5.0	5.3	5.5	5.2
Macon-Warner Robins .....	131.9	132.4	133.0	6.1	6.1	6.1	4.6	4.6	4.6
Savannah .....	111.9	114.4	114.0	5.6	5.2	5.0	5.0	4.5	4.4
<b>Hawaii</b> .....	521.5	529.1	535.0	14.0	16.6	16.0	2.7	3.1	3.0
Honolulu .....	382.8	389.3	395.2	9.0	11.2	11.0	2.3	2.9	2.8
<b>Idaho</b> .....	482.3	497.0	499.8	31.1	33.5	33.5	6.5	6.7	6.7
Boise City .....	113.5	118.8	120.7	4.2	5.2	4.7	3.7	4.4	3.9
<b>Illinois<sup>1</sup></b> .....	5,985.0	5,978.6	5,948.4	368.4	391.9	353.9	6.2	6.6	5.9
Aurora-Elgin .....	181.9	181.7	181.0	9.7	11.8	10.8	5.3	6.5	5.9
Bloomington-Normal .....	73.5	74.2	73.7	3.5	3.3	3.0	4.7	4.5	4.1
Champaign-Urbana-Rantoul .....	93.2	91.2	90.7	4.2	3.8	3.3	4.5	4.2	3.6
Chicago .....	3,276.3	3,288.8	3,283.8	180.0	195.8	182.9	5.5	6.0	5.6
Davenport-Rock Island-Moline .....	182.6	181.1	180.4	11.9	12.2	10.8	6.5	6.7	6.0
Decatur .....	61.4	60.2	59.2	4.8	4.6	4.0	7.8	7.7	6.7
Joliet .....	205.2	206.9	205.4	14.1	15.4	13.7	6.9	7.4	6.7
Kankakee .....	45.6	46.3	45.8	3.9	3.9	3.4	8.6	8.5	7.3
Lake County .....	290.8	294.2	293.5	11.3	12.5	11.2	3.9	4.3	3.8
Peoria .....	163.4	163.6	161.3	9.7	11.5	9.3	5.9	7.0	5.8
Rockford .....	155.5	154.7	153.2	9.3	10.3	9.2	6.0	6.6	6.0
Springfield .....	114.2	113.1	112.2	5.8	5.7	4.8	5.1	5.1	4.2
<b>Indiana</b> .....	2,855.9	2,843.2	2,832.3	149.5	160.1	175.2	5.2	5.6	6.2
Anderson .....	60.2	58.9	58.8	3.3	3.6	4.1	5.5	6.1	7.0
Bloomington .....	60.7	62.2	61.1	2.0	2.1	2.3	3.3	3.3	3.8
Elkhart-Goshen .....	98.8	97.8	96.8	4.0	5.4	5.4	4.0	5.5	5.5
Evansville .....	145.0	144.9	145.5	8.5	9.5	10.4	5.9	6.5	7.1
Fort Wayne .....	204.1	203.7	203.3	9.3	10.2	12.0	4.5	5.0	5.9
Gary-Hammond .....	259.4	260.0	258.6	15.9	15.6	17.7	6.1	6.0	6.9
Indianapolis .....	685.5	686.2	677.5	29.6	29.8	30.1	4.3	4.3	4.4
Kokomo .....	48.4	47.8	47.1	3.1	3.2	2.9	6.3	6.6	6.2
Lafayette-West Lafayette .....	69.3	71.9	69.8	2.2	2.5	2.4	3.2	3.5	3.4
Muncie .....	61.1	60.7	60.2	3.3	3.6	3.7	5.4	5.9	6.1
South Bend-Mishawaka .....	131.2	135.3	135.5	6.1	7.8	9.6	4.6	5.8	7.1
Terre Haute .....	61.2	59.6	59.7	3.6	3.0	3.6	5.9	5.0	6.0
<b>Iowa</b> .....	1,496.3	1,490.9	1,496.4	67.8	75.3	72.2	4.5	5.1	4.8
Cedar Rapids .....	97.5	98.3	97.7	3.7	4.5	5.8	3.8	4.6	6.0
Des Moines .....	235.9	234.6	233.7	8.9	9.1	7.9	3.8	3.9	3.4
Dubuque .....	44.7	44.8	44.4	2.8	3.1	2.6	6.4	6.9	5.8
Iowa City .....	63.2	62.8	62.9	.9	1.1	1.0	1.3	1.7	1.7
Sioux City .....	60.0	60.2	59.7	2.7	2.4	2.3	4.4	4.0	3.9
Waterloo-Cedar Falls .....	72.4	72.4	71.9	3.7	4.2	3.8	5.1	5.8	5.2
<b>Kansas</b> .....	1,269.6	1,284.0	1,295.3	53.6	52.8	51.7	4.2	4.1	4.0
Lawrence .....	41.8	43.8	43.8	1.4	1.4	1.5	3.4	3.3	3.4
Topeka .....	91.4	92.7	92.9	3.8	3.9	3.8	4.2	4.2	4.1
Wichita .....	253.2	254.1	254.7	10.6	10.4	10.3	4.2	4.1	4.0
<b>Kentucky</b> .....	1,710.8	1,754.7	1,764.2	128.1	131.1	111.5	7.5	7.5	6.3
Lexington-Fayette .....	194.0	199.5	201.3	8.6	8.7	7.7	4.4	4.4	3.8
Louisville .....	508.0	518.1	520.7	31.1	29.8	28.1	6.1	5.7	5.4
Owensboro .....	45.0	45.3	45.5	3.2	3.4	2.7	7.2	7.5	6.0
<b>Louisiana</b> .....	1,896.5	1,840.5	1,847.3	152.1	134.6	125.1	8.0	7.3	6.8
Alexandria .....	60.0	56.3	56.4	4.6	4.3	3.9	7.7	7.6	6.9
Baton Rouge .....	269.0	266.8	268.5	16.9	15.9	15.5	6.3	5.9	5.8
Houma-Thibodaux .....	69.3	67.1	67.5	5.5	4.7	4.4	7.9	7.0	6.5
Lafayette .....	99.8	96.2	96.7	7.0	6.0	5.4	7.1	6.2	5.6
Lake Charles .....	75.8	73.8	74.3	6.1	5.6	5.3	8.0	7.6	7.1
Monroe .....	68.4	66.5	66.6	5.2	4.4	4.1	7.6	6.7	6.2
New Orleans .....	595.2	574.7	575.9	40.7	36.6	34.9	6.8	6.4	6.1
Shreveport .....	157.3	153.7	154.0	12.6	11.4	10.7	8.0	7.4	7.0
<b>Maine</b> .....	594.5	615.6	620.9	25.8	32.8	36.2	4.3	5.3	5.8
Lewiston-Auburn .....	41.6	43.4	43.3	2.3	3.0	3.3	5.5	7.0	7.5
Portland .....	125.8	131.4	131.4	3.1	4.3	5.2	2.4	3.3	3.9

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA  
NOT SEASONALLY ADJUSTED

D-1. Labor force status by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Maryland</b> .....	2,493.6	2,540.5	2,553.2	97.2	99.0	84.8	3.9	3.9	3.3
Baltimore .....	1,194.1	1,214.2	1,217.8	50.8	51.6	43.7	4.3	4.3	3.6
<b>Massachusetts<sup>1</sup></b> .....	3,174.0	3,174.2	3,165.9	127.2	182.9	188.2	4.0	5.8	5.9
Boston .....	1,570.4	1,569.3	1,564.7	51.4	73.5	76.3	3.3	4.7	4.9
Brockton .....	100.2	101.0	100.9	4.6	6.8	7.2	4.6	6.8	7.1
Fall River .....	77.7	80.3	80.2	5.4	8.2	8.9	6.9	10.1	11.1
Fitchburg-Leominster .....	48.8	47.7	48.3	2.5	3.6	3.8	5.2	7.6	7.8
Lawrence-Haverhill .....	188.3	192.0	192.8	8.8	13.3	13.7	4.7	6.9	7.1
Lowell .....	155.7	150.5	150.5	6.4	10.0	10.2	4.1	6.6	6.8
New Bedford .....	87.4	87.7	87.4	5.8	8.5	8.8	6.6	9.7	10.1
Pittsfield .....	40.0	40.8	40.7	2.3	2.6	2.7	5.6	6.3	6.7
Springfield .....	257.5	257.5	255.7	10.2	14.4	14.5	4.0	5.6	5.7
Worcester .....	222.3	223.2	222.4	8.5	13.2	13.6	3.8	5.9	6.1
<b>Michigan<sup>1</sup></b> .....	4,502.6	4,555.3	4,489.0	319.5	369.7	340.5	7.1	8.1	7.6
Ann Arbor .....	159.7	162.0	161.3	7.2	6.9	7.2	4.5	4.3	4.4
Battle Creek .....	64.4	65.9	64.7	4.5	5.8	5.4	7.0	8.7	8.3
Benton Harbor .....	77.2	78.0	77.0	5.5	6.3	6.0	7.2	8.1	7.8
Detroit .....	2,155.1	2,161.6	2,125.7	146.2	167.7	154.9	6.8	7.8	7.3
Flint .....	181.4	181.7	178.6	17.2	17.3	15.8	9.5	9.5	8.9
Grand Rapids .....	362.2	371.6	367.3	17.8	23.1	21.5	4.9	6.2	5.9
Jackson .....	64.6	65.0	64.2	4.5	5.5	5.2	7.0	8.5	8.0
Kalamazoo .....	118.0	118.7	117.9	5.8	6.4	6.6	4.9	5.4	5.6
Lansing-East Lansing .....	236.2	240.5	238.8	13.5	18.4	13.1	5.7	7.7	5.5
Muskegon .....	66.3	67.4	66.8	5.6	6.6	6.3	8.4	9.8	9.5
Saginaw-Bay City-Midland .....	180.7	184.0	180.2	13.2	14.8	13.8	7.3	8.1	7.7
<b>Minnesota</b> .....	2,299.0	2,352.0	2,354.3	105.4	109.7	127.0	4.6	4.7	5.4
Duluth .....	106.9	111.1	111.0	6.7	6.8	7.4	6.3	6.1	6.6
Minneapolis-St. Paul .....	1,374.7	1,401.4	1,398.2	50.6	51.8	60.4	3.7	3.7	4.3
Rochester .....	61.0	63.3	63.1	1.8	1.9	2.2	3.0	2.9	3.5
St. Cloud .....	98.9	104.8	104.9	5.6	6.0	7.0	5.6	5.7	6.7
<b>Mississippi</b> .....	1,145.7	1,171.9	1,173.6	94.5	90.7	83.0	8.3	7.7	7.1
Jackson .....	196.4	204.1	205.2	10.8	10.3	9.6	5.5	5.0	4.7
<b>Missouri</b> .....	2,602.4	2,613.0	2,606.8	149.3	166.7	150.9	5.7	6.4	5.8
Kansas City .....	843.4	855.7	856.4	41.6	43.0	38.9	4.9	5.0	4.5
St. Louis LMA .....	1,269.0	1,268.1	1,257.8	75.2	77.5	73.0	5.9	6.1	5.8
Springfield .....	127.7	127.0	126.3	5.5	6.0	5.4	4.3	4.7	4.2
<b>Montana</b> .....	397.3	407.1	412.1	30.0	24.1	24.6	7.6	5.9	6.0
<b>Nebraska</b> .....	802.9	826.8	837.8	26.8	23.5	23.4	3.3	2.8	2.8
Lincoln .....	124.5	127.1	129.1	3.1	2.6	2.7	2.5	2.0	2.1
Omaha .....	327.3	332.7	332.5	11.3	10.0	10.1	3.4	3.0	3.1
<b>Nevada</b> .....	598.7	614.7	618.9	32.3	30.3	30.3	5.4	4.9	4.9
Las Vegas .....	356.3	371.1	374.6	19.1	16.3	17.2	5.3	4.4	4.6
Reno .....	137.2	136.9	136.8	7.1	7.7	7.0	5.1	5.6	5.1
<b>New Hampshire</b> .....	595.3	616.4	622.2	17.0	30.3	33.1	2.9	4.9	5.3
Manchester .....	85.1	87.6	88.5	2.2	4.5	4.6	2.6	5.2	5.2
Nashua .....	98.2	99.3	99.6	3.0	5.0	5.3	3.1	5.1	5.4
Portsmouth-Dover-Rochester .....	129.6	128.8	128.7	3.1	5.0	5.2	2.4	3.9	4.0
<b>New Jersey<sup>1</sup></b> .....	3,986.9	4,038.2	4,048.2	131.3	200.4	199.0	3.3	5.0	4.9
Atlantic City .....	170.3	173.9	177.4	8.3	12.4	11.3	4.9	7.1	6.4
Bergen-Passaic .....	717.3	720.7	722.4	21.1	33.1	32.9	2.9	4.6	4.6
Jersey City .....	270.6	276.1	278.0	13.9	20.9	21.2	5.1	7.6	7.6
Middlesex-Somerset-Hunterdon .....	571.1	574.8	575.8	13.2	20.5	20.7	2.3	3.6	3.6
Monmouth-Ocean .....	475.0	483.8	485.6	14.6	23.3	22.6	3.1	4.8	4.6
Newark .....	961.5	981.3	982.0	32.0	50.0	50.8	3.3	5.1	5.2
Trenton .....	172.4	174.3	174.4	4.6	6.8	6.8	2.6	3.9	3.9
Vineland-Millville-Bridgeton .....	57.3	60.4	59.7	3.9	5.5	5.2	6.7	9.1	8.7
<b>New Mexico</b> .....	692.0	694.6	700.0	51.3	42.9	45.6	7.4	6.2	6.5
Albuquerque .....	265.1	261.2	262.4	14.5	12.3	13.3	5.5	4.7	5.1
Las Cruces .....	56.5	58.0	58.8	4.2	4.0	4.3	7.4	7.0	7.2
Santa Fe .....	65.6	66.0	66.5	3.3	2.0	2.0	5.0	3.0	3.0

See footnotes at end of table.

**STATE AND AREA LABOR FORCE DATA  
NOT SEASONALLY ADJUSTED**

**D-1. Labor force status by State and selected metropolitan areas—Continued**

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>New York<sup>1</sup></b> .....	8,501.1	8,679.7	8,599.5	399.5	474.1	458.5	4.7	5.5	5.3
Albany-Schenectady-Troy .....	429.9	435.3	433.4	18.6	19.1	17.3	4.3	4.4	4.0
Binghamton .....	125.5	123.7	122.8	6.0	6.6	5.9	4.8	5.3	4.8
Buffalo .....	456.9	459.0	457.6	26.0	25.7	22.9	5.7	5.6	5.0
Elmira .....	42.9	44.0	43.7	1.9	2.4	2.1	4.4	5.5	4.7
Glens Falls .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Nassau-Suffolk .....	1,412.7	1,406.1	1,403.7	50.7	54.0	49.8	3.6	3.8	3.5
New York .....	3,881.9	4,047.1	3,987.9	175.7	241.7	247.8	4.5	6.0	6.2
New York City <sup>1</sup> .....	3,212.0	3,376.0	3,318.0	152.8	219.0	227.0	4.8	6.5	6.8
Orange County .....	135.4	135.5	134.8	6.3	6.8	6.3	4.7	5.0	4.6
Poughkeepsie .....	128.6	127.6	126.8	4.5	4.1	3.8	3.5	3.2	3.0
Rochester .....	506.3	503.3	500.7	21.3	22.1	20.7	4.2	4.4	4.1
Syracuse .....	316.9	320.1	317.1	15.9	16.0	14.3	5.0	5.0	4.5
Utica-Rome .....	136.2	136.6	135.5	8.2	7.9	7.1	6.0	5.8	5.3
<b>North Carolina<sup>1</sup></b> .....	3,341.3	3,371.4	3,365.2	112.0	132.2	120.6	3.4	3.9	3.6
Asheville .....	88.0	92.2	92.0	2.4	3.1	2.7	2.7	3.4	2.9
Charlotte-Gastonia-Rock Hill .....	640.5	646.0	647.9	19.8	20.0	19.8	3.1	3.1	3.0
Greensboro-Winston-Salem-High Point .....	519.9	517.6	513.4	16.7	18.6	17.1	3.2	3.6	3.3
Raleigh-Durham .....	413.4	420.1	418.8	8.7	9.4	9.0	2.1	2.2	2.1
<b>North Dakota</b> .....	323.2	318.6	321.9	15.4	15.5	16.5	4.8	4.9	5.1
Bismarck .....	46.5	46.2	46.6	2.0	2.3	2.4	4.4	5.0	5.1
Fargo-Moorhead .....	86.6	87.1	87.2	2.9	2.9	3.0	3.3	3.3	3.4
Grand Forks .....	36.0	35.9	36.0	1.2	1.3	1.4	3.4	3.6	3.8
<b>Ohio<sup>1</sup></b> .....	5,351.2	5,343.6	5,353.0	308.0	345.9	318.2	5.8	6.5	5.9
Akron .....	329.5	330.3	330.6	19.2	20.2	18.4	5.8	6.1	5.8
Canton .....	191.8	191.3	190.2	12.1	14.0	12.9	6.3	7.3	6.8
Cincinnati .....	765.9	775.6	777.9	34.8	35.9	32.9	4.5	4.6	4.2
Cleveland .....	937.8	935.5	937.2	46.4	49.8	46.6	4.9	5.3	5.0
Columbus .....	721.0	720.9	722.6	34.5	37.2	33.8	4.8	5.2	4.7
Dayton-Springfield .....	475.1	473.4	475.0	23.9	28.4	26.5	5.0	6.0	5.6
Toledo .....	314.6	313.2	314.0	18.7	23.0	22.0	6.0	7.4	7.0
Youngstown-Warren .....	222.0	221.0	221.6	15.9	17.4	16.3	7.2	7.9	7.4
<b>Oklahoma</b> .....	1,494.7	1,510.5	1,528.8	97.4	100.7	82.0	6.5	6.7	5.4
Enid .....	27.4	27.3	27.5	1.5	1.6	1.2	5.4	5.8	4.3
Lawton .....	46.9	47.5	48.4	2.6	3.0	2.6	5.6	6.4	5.4
Oklahoma City .....	490.6	497.1	504.8	25.5	26.4	21.9	5.2	5.3	4.3
Tulsa .....	334.9	338.4	342.6	23.5	23.2	18.9	7.0	6.8	5.5
<b>Oregon</b> .....	1,463.4	1,446.1	1,425.8	93.8	87.6	80.8	6.4	6.1	5.7
Eugene-Springfield .....	147.0	147.3	144.5	8.5	9.6	8.2	5.8	6.5	5.7
Portland .....	673.6	666.0	658.0	30.5	28.4	27.1	4.5	4.3	4.1
Salem .....	135.2	131.3	129.6	9.0	8.4	7.6	6.7	6.4	5.8
<b>Pennsylvania<sup>1</sup></b> .....	5,862.3	5,883.4	5,915.3	245.8	373.2	316.2	4.2	6.3	5.3
Allentown-Bethlehem .....	330.2	332.4	333.2	12.4	21.7	18.5	3.8	6.5	5.6
Altoona .....	59.6	60.3	60.2	3.5	4.9	4.1	5.9	8.1	6.8
Beaver County .....	59.7	59.5	59.4	4.2	5.9	4.9	7.1	10.0	8.3
Erie .....	133.1	134.0	134.8	6.3	9.6	7.7	4.8	7.2	5.7
Harrisburg-Lebanon-Carlisle .....	329.3	332.0	334.6	11.1	17.0	13.5	3.4	5.1	4.0
Johnstown .....	94.8	97.2	96.5	6.3	9.3	7.8	6.7	9.6	8.1
Lancaster .....	223.1	222.2	225.3	6.1	10.6	8.5	2.7	4.8	3.8
Philadelphia .....	2,447.2	2,424.9	2,437.7	82.2	119.2	107.8	3.4	4.9	4.4
Pittsburgh .....	980.9	986.9	994.6	44.4	60.3	50.1	4.5	6.1	5.0
Reading .....	176.8	179.0	180.0	6.5	10.6	9.3	3.7	5.9	5.1
Scranton-Wilkes-Barre .....	362.1	369.5	369.6	17.8	30.8	25.2	4.9	8.3	6.8
Sharon .....	50.9	51.2	51.4	2.1	3.2	2.6	4.0	6.2	5.1
State College .....	65.5	67.5	67.9	2.6	4.1	3.5	4.0	6.1	5.1
Williamsport .....	60.1	61.7	61.9	3.5	5.3	4.3	5.8	8.7	7.0
York .....	223.5	223.5	225.9	7.6	11.7	11.5	3.4	5.2	5.1
<b>Rhode Island</b> .....	518.7	522.1	523.3	21.0	37.9	42.8	4.0	7.3	8.2
Pawtucket-Woonsocket-Attleboro .....	164.9	168.1	168.8	7.6	13.3	15.2	4.6	7.9	9.0
Providence .....	341.7	343.1	343.4	13.1	23.4	26.2	3.8	6.8	7.6
<b>South Carolina</b> .....	1,682.7	1,678.7	1,715.3	77.1	84.3	73.8	4.6	5.0	4.3
Charleston .....	225.9	225.8	230.6	8.8	7.9	7.0	3.9	3.5	3.0
Columbia .....	235.7	232.2	237.6	7.6	7.8	7.2	3.2	3.4	3.0
Greenville-Spartanburg .....	337.2	336.5	343.8	11.2	14.1	12.4	3.3	4.2	3.6
<b>South Dakota</b> .....	354.1	353.7	352.1	15.5	14.1	14.1	4.4	4.0	4.0
Rapid City .....	38.1	39.5	38.7	1.6	1.7	1.4	4.3	4.3	3.7
Sioux Falls .....	74.5	74.8	73.7	3.3	2.4	2.4	4.4	3.1	3.2

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA  
NOT SEASONALLY ADJUSTED

D-1. Labor force status by State and selected metropolitan areas—Continued

(Numbers in thousands)

State and area	Civilian labor force			Unemployed					
				Number			Percent of labor force		
	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>	Mar. 1989	Feb. 1990	Mar. 1990 <sup>P</sup>
<b>Tennessee</b> .....	2,335.4	2,385.7	2,369.2	118.2	127.2	120.3	5.1	5.3	5.1
Chattanooga .....	207.6	208.7	207.7	10.1	10.1	9.4	4.9	4.8	4.5
Johnson City-Kingsport-Bristol .....	214.4	220.4	218.3	10.1	10.7	9.8	4.7	4.9	4.5
Knoxville .....	282.3	285.2	284.0	16.5	16.7	15.6	5.8	5.9	5.5
Memphis .....	460.7	464.7	463.6	20.8	21.0	20.7	4.5	4.5	4.5
Nashville .....	526.3	530.6	524.6	19.2	20.1	19.2	3.7	3.8	3.7
<b>Texas<sup>1</sup></b> .....	8,285.8	8,375.4	8,346.5	530.9	587.5	472.5	6.4	7.0	5.7
Abilene .....	52.5	51.9	51.6	3.2	3.3	2.6	6.1	6.4	5.1
Amarillo .....	96.5	93.7	94.3	5.1	5.6	4.8	5.3	6.0	5.1
Austin .....	426.4	428.1	428.0	21.3	20.6	17.6	5.0	4.8	4.1
Beaumont-Port Arthur .....	161.7	160.9	160.0	13.8	13.3	11.0	8.6	8.3	6.9
Brazoria .....	83.9	84.7	84.5	5.3	5.4	4.3	6.3	6.4	5.1
Brownsville-Harlingen .....	102.0	106.7	106.2	11.2	14.2	11.5	11.0	13.3	10.8
Bryan-College Station .....	61.2	61.6	62.1	2.7	2.5	2.0	4.4	4.0	3.2
Corpus Christi .....	156.9	157.8	158.1	12.5	11.8	9.3	7.9	7.5	5.9
Dallas .....	1,420.0	1,434.1	1,432.8	71.4	77.1	64.2	5.0	5.4	4.5
El Paso .....	242.5	255.2	249.2	23.6	30.8	23.6	9.7	12.1	9.5
Fort Worth-Arlington .....	704.0	728.5	723.0	36.0	43.5	32.4	5.1	6.0	4.5
Galveston-Texas City .....	108.0	107.7	108.2	7.1	8.4	7.0	6.6	7.8	6.4
Houston .....	1,646.1	1,667.5	1,669.9	90.4	92.7	76.5	5.5	5.6	4.6
Killeen-Temple .....	95.1	97.9	97.4	6.8	7.5	6.3	7.2	7.6	6.4
Laredo .....	52.0	54.4	53.4	6.7	7.6	6.1	12.9	14.1	11.4
Longview-Marshall .....	79.3	79.4	79.1	6.7	5.9	4.9	8.4	7.4	6.2
Lubbock .....	112.1	113.1	112.9	5.2	5.4	4.4	4.7	4.8	3.9
McAllen-Edinburg-Mission .....	158.7	178.0	167.4	26.7	47.4	35.8	16.8	26.6	21.4
Midland .....	49.6	48.6	48.4	2.7	3.1	2.5	5.4	6.4	5.1
Odessa .....	51.8	51.4	51.0	4.1	3.8	3.1	7.9	7.3	6.0
San Angelo .....	45.8	44.0	44.1	2.4	2.6	2.4	5.2	6.0	5.4
San Antonio .....	605.2	607.1	603.3	40.7	43.9	36.2	6.7	7.2	6.0
Sherman-Denison .....	47.4	46.8	46.6	3.5	2.8	2.3	7.3	6.0	4.9
Texarkana .....	56.9	58.2	57.4	4.1	3.8	3.3	7.2	6.5	5.8
Tyler .....	75.4	74.8	74.4	4.8	4.9	3.9	6.4	6.5	5.3
Victoria .....	35.7	35.7	35.5	2.2	2.1	1.6	6.1	5.9	4.4
Waco .....	92.0	93.2	93.1	4.8	5.4	4.4	5.2	5.8	4.8
Wichita Falls .....	55.5	56.3	56.2	3.4	3.4	2.9	6.2	6.1	5.1
<b>Utah</b> .....	773.6	788.5	791.2	46.2	36.0	41.4	6.0	4.6	5.2
Provo-Orem .....	107.9	113.2	114.0	5.6	4.7	4.8	5.2	4.2	4.2
Salt Lake City-Ogden .....	504.6	511.2	510.7	28.8	21.3	25.0	5.7	4.2	4.9
<b>Vermont</b> .....	306.0	310.4	311.4	11.3	13.6	15.5	3.7	4.4	5.0
Burlington .....	78.0	79.5	79.8	2.0	2.3	2.6	2.6	2.8	3.2
<b>Virginia</b> .....	3,094.6	3,131.9	3,129.4	128.9	137.5	122.8	4.2	4.4	3.9
Charlottesville .....	68.6	75.0	75.2	1.9	2.5	2.4	2.8	3.3	3.2
Danville .....	51.2	53.2	51.5	3.4	4.2	3.2	6.7	7.9	6.2
Lynchburg .....	72.9	74.5	73.3	4.1	4.1	3.2	5.7	5.5	4.4
Norfolk-Virginia Beach-Newport News .....	606.0	608.0	608.8	28.2	27.4	24.8	4.7	4.5	4.1
Richmond-Petersburg .....	450.1	451.4	450.2	18.0	17.5	16.4	4.0	3.9	3.6
Roanoke .....	120.7	120.9	120.6	4.6	4.9	4.1	3.8	4.1	3.4
<b>Washington</b> .....	2,402.8	2,538.2	2,545.6	159.3	165.3	143.8	6.6	6.5	5.6
Seattle .....	1,083.8	1,152.4	1,156.6	51.2	48.5	44.7	4.7	4.2	3.9
<b>West Virginia</b> .....	755.3	753.8	755.2	66.1	63.3	57.3	8.8	8.4	7.6
Charleston .....	116.7	116.6	116.2	8.8	7.5	6.8	7.5	6.4	5.8
Huntington-Ashland .....	130.8	132.3	130.3	9.7	11.4	8.7	7.4	8.6	6.6
Parkersburg-Manetta .....	71.5	72.7	72.3	5.4	5.2	4.6	7.5	7.2	6.3
Wheeling .....	71.6	72.2	72.0	5.2	5.1	4.5	7.3	7.1	6.2
<b>Wisconsin</b> .....	2,589.6	2,541.5	2,545.6	136.3	129.3	125.6	5.3	5.1	4.9
Appleton-Oshkosh-Neenah .....	171.9	169.3	169.9	8.2	8.2	7.8	4.8	4.8	4.6
Eau Claire .....	75.0	74.2	76.2	4.3	3.9	5.3	5.7	5.2	7.0
Green Bay .....	108.9	108.0	107.8	5.0	4.9	4.4	4.6	4.5	4.1
Janesville-Beloit .....	74.4	72.2	72.2	3.8	3.7	3.8	5.2	5.2	5.3
Kenosha .....	55.1	51.8	51.4	3.9	4.1	3.7	7.2	7.9	7.2
La Crosse .....	55.8	53.4	53.5	2.7	2.5	2.4	4.9	4.8	4.5
Madison .....	224.0	219.9	221.4	7.1	6.4	7.4	3.2	2.9	3.3
Milwaukee .....	769.8	762.2	761.6	31.2	29.3	27.9	4.1	3.8	3.7
Racine .....	91.8	91.4	90.6	4.9	5.0	4.5	5.4	5.5	4.9
Sheboygan .....	59.2	58.2	57.7	2.3	3.0	2.4	3.9	5.2	4.2
Wausau .....	63.9	65.0	64.7	3.7	3.6	3.2	5.9	5.5	5.0
<b>Wyoming</b> .....	235.3	239.9	240.3	16.4	15.7	16.6	7.0	6.5	6.9
Casper .....	30.9	31.2	31.0	2.3	2.2	2.2	7.3	7.1	7.1

<sup>1</sup> Data are obtained directly from the Current Population Survey. See the Explanatory Notes for State and Area Labor Force Data.

<sup>2</sup> Not available.

<sup>P</sup> = preliminary.

NOTE: Data refer to place of residence. Estimates for 1989 have been

benchmarked to 1989 Current Population Survey annual averages. Except in the 11 States and 2 areas designated by footnote 1, estimates for 1990 are provisional and will be revised when new benchmark information becomes available. Area definitions are published annually in the May issue of this publication.

# **Annual Averages**

## **States and Areas**

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry**

(In thousands)

State and area	Total			Mining			Construction		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Alabama</b> .....	1,507.7	1,558.7	1,588.3	11.3	11.2	11.3	75.1	78.0	75.9
Birmingham .....	390.8	401.5	409.6	5.5	5.3	5.4	23.6	24.4	22.7
Huntsville .....	123.4	128.1	131.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	5.5	4.9
Mobile .....	161.8	166.7	169.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	10.8	10.2
Montgomery .....	125.2	129.5	132.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	8.2	7.2
Tuscaloosa .....	58.2	60.7	62.6	2.4	2.5	2.5	3.0	3.1	3.5
<b>Alaska</b> .....	210.1	213.7	227.3	8.8	9.6	10.1	10.1	9.0	9.8
<b>Arizona</b> .....	1,385.8	1,419.3	1,457.2	11.4	11.9	12.2	103.2	93.7	85.9
Phoenix .....	913.8	938.5	963.2	.6	.7	.9	69.9	64.2	57.9
Tucson .....	245.0	249.4	250.0	1.6	1.9	2.1	19.7	17.2	15.1
<b>Arkansas</b> .....	836.6	865.4	891.5	4.1	4.3	4.1	34.1	33.3	32.5
Fayetteville-Springdale .....	48.1	51.2	53.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	1.7	1.6
Fort Smith .....	76.3	78.3	78.3	1.0	1.0	.9	2.9	2.6	2.5
Little Rock-North Little Rock .....	229.6	237.6	244.7	.4	.4	.4	10.6	10.0	9.6
Pine Bluff .....	32.3	33.2	33.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	1.5	1.5
<b>California</b> .....	11,678.5	12,103.4	12,521.5	41.1	42.0	41.6	574.6	603.3	643.6
Anaheim-Santa Ana .....	1,091.9	1,149.4	1,196.0	1.8	1.4	1.4	63.6	67.6	73.0
Bakersfield .....	159.4	164.2	167.1	13.2	14.1	13.7	9.6	11.0	10.7
Fresno .....	203.2	209.4	217.1	.6	.7	.7	12.4	12.1	12.9
Los Angeles-Long Beach .....	4,019.8	4,096.8	4,222.9	9.5	9.5	9.2	143.7	146.8	153.7
Modesto .....	104.2	108.6	114.2	( <sup>2</sup> )	.1	.1	7.0	7.3	8.0
Oakland .....	813.7	848.8	885.7	3.2	3.5	4.1	47.3	51.1	53.1
Oxnard-Ventura .....	205.5	216.9	225.7	2.6	2.6	2.4	12.6	14.3	16.9
Riverside-San Bernardino .....	600.9	636.4	682.5	1.3	1.4	1.4	49.7	55.7	65.2
Sacramento .....	546.6	573.3	598.6	.8	.7	.7	32.5	34.5	35.9
San Diego .....	867.4	916.6	962.8	.8	.8	.8	54.6	57.4	63.3
San Francisco .....	928.4	936.6	957.7	1.0	.7	.6	34.6	33.5	34.5
San Jose .....	789.1	818.0	828.7	.2	.2	.2	32.2	32.8	33.4
Santa Barbara-Santa Maria-Lompoc .....	143.9	146.6	149.5	1.3	1.4	1.4	6.4	6.4	6.9
Santa Rosa-Petaluma .....	124.1	130.1	135.2	.7	.7	.7	8.3	9.3	10.7
Stockton .....	144.1	147.9	151.6	.1	.1	.1	8.4	8.5	8.8
Vallejo-Fairfield-Napa .....	124.7	128.9	133.4	.4	.6	.6	8.8	8.8	9.8
<b>Colorado</b> .....	1,412.6	1,436.1	1,471.7	21.3	20.7	19.7	67.3	60.4	58.5
Boulder-Longmont .....	104.9	109.7	113.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	3.9	3.9
Denver .....	799.8	804.5	818.1	13.4	12.9	11.7	36.7	32.8	30.9
<b>Connecticut</b> .....	1,644.7	1,674.9	1,679.9	1.6	1.6	1.3	78.0	81.3	76.3
Bridgeport-Milford .....	197.2	201.8	199.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.8	9.2	8.6
Hartford .....	473.9	482.5	486.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	21.1	20.5
New Britain .....	64.3	66.0	66.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.0	4.5	5.2
New Haven-Meriden .....	250.0	257.7	258.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	13.9	12.7
Stamford .....	125.1	125.7	125.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	5.9	5.2
Waterbury .....	86.9	88.0	88.2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.4	4.6	4.3
<b>Delaware</b> .....	320.7	334.2	343.4	.1	.1	.1	20.2	21.7	20.4
Wilmington .....	273.8	286.3	294.7	.2	.2	.2	16.9	19.3	18.4
<b>District of Columbia</b> .....	655.6	673.6	682.5	.1	.1	.1	14.7	14.0	14.3
Washington MSA .....	2,080.1	2,167.2	2,230.9	1.1	1.1	1.1	131.6	141.4	148.5
<b>Florida</b> .....	4,848.1	5,066.6	5,276.0	8.7	9.1	9.3	341.5	346.3	341.1
Daytona Beach .....	111.8	116.8	121.6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	8.3	8.3	8.1
Fort Lauderdale-Hollywood-Pompano Beach .....	465.3	486.6	505.1	.4	.3	.3	35.4	36.2	35.0
Fort Myers-Cape Coral .....	107.7	115.4	124.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	12.2	12.7	13.4
Gainesville .....	92.3	95.4	99.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4.2	4.3	4.5
Jacksonville .....	393.8	406.5	415.5	.5	.6	.7	27.6	27.2	27.0
Lakeland-Winter Haven .....	141.0	148.6	155.3	3.7	3.9	4.1	8.6	8.8	9.0
Melbourne-Titusville-Palm Bay .....	143.4	153.0	160.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.0	9.7	9.5
Miami-Hialeah .....	828.6	854.1	875.6	.9	1.0	.9	41.5	41.3	40.2
Orlando .....	477.3	506.6	538.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	34.6	37.0	37.1
Pensacola .....	123.6	124.9	127.5	.4	.3	.4	8.8	8.2	8.1
Sarasota .....	103.8	108.9	113.1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	10.4	10.1	10.3
Tallahassee .....	109.1	114.2	120.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5.7	5.8	6.0
Tampa-St. Petersburg-Clearwater .....	803.2	833.7	862.8	.7	.7	.6	59.2	57.3	54.1
West Palm Beach-Boca Raton-Delray Beach .....	324.6	342.7	356.5	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	28.3	29.7	28.8

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Alabama</b> .....	368.8	380.6	383.8	73.3	79.5	80.1	331.6	339.7	349.1
Birmingham .....	54.0	57.0	57.2	27.8	32.1	32.3	97.7	99.3	101.1
Huntsville .....	31.2	32.3	33.0	2.8	2.9	2.9	23.3	24.4	25.1
Mobile .....	26.5	26.3	26.1	9.3	10.1	10.0	43.7	44.1	46.0
Montgomery .....	18.9	19.1	18.8	4.9	5.1	5.2	28.4	29.5	30.5
Tuscaloosa .....	9.7	10.0	10.4	1.9	2.0	2.0	12.1	12.8	12.9
<b>Alaska</b> .....	12.9	15.0	16.0	17.6	17.4	20.7	41.1	42.0	44.2
<b>Arizona</b> .....	187.4	189.0	188.0	71.7	74.1	76.7	340.3	351.3	366.7
Phoenix .....	135.7	138.3	139.3	49.1	51.4	53.6	231.5	238.4	247.6
Tucson .....	31.0	30.3	28.0	9.2	9.4	9.5	55.6	57.2	58.5
<b>Arkansas</b> .....	219.6	226.3	230.0	51.3	52.2	54.5	189.6	196.7	204.4
Fayetteville-Springdale .....	11.8	12.8	13.2	4.5	4.9	5.0	11.1	11.8	12.1
Fort Smith .....	26.5	27.2	25.3	3.8	4.1	4.3	15.9	16.4	16.7
Little Rock-North Little Rock .....	32.2	32.9	33.5	16.5	16.4	16.4	55.7	57.6	60.0
Pine Bluff .....	6.2	6.5	6.5	2.5	2.6	2.7	6.9	7.2	7.4
<b>California</b> .....	2,107.6	2,149.2	2,158.6	582.6	589.0	599.5	2,761.4	2,874.4	2,968.4
Anaheim-Santa Ana .....	248.6	258.9	259.1	34.2	34.2	34.4	270.2	286.9	303.2
Bakersfield .....	10.8	10.8	10.6	7.9	8.0	8.1	38.4	39.3	39.8
Fresno .....	21.8	23.6	24.2	11.0	11.7	12.1	52.7	54.6	55.9
Los Angeles-Long Beach .....	905.9	897.7	891.7	204.4	207.6	212.1	920.9	933.6	964.5
Modesto .....	22.9	23.5	24.3	4.5	4.5	4.5	26.8	28.3	29.5
Oakland .....	103.9	110.9	114.8	56.3	55.7	58.3	201.4	208.5	216.9
Oxnard-Ventura .....	29.7	31.5	31.1	10.9	11.1	11.5	51.1	54.4	56.5
Riverside-San Bernardino .....	80.1	84.8	88.4	30.5	31.4	33.0	151.4	158.2	168.8
Sacramento .....	40.5	42.3	43.7	24.6	25.4	26.4	132.6	137.5	141.9
San Diego .....	124.3	130.1	135.0	33.7	35.1	35.5	207.0	223.0	235.2
San Francisco .....	79.2	80.3	81.7	77.2	75.6	76.4	210.9	212.7	218.5
San Jose .....	262.0	266.8	269.8	21.5	21.8	21.8	154.4	167.0	170.3
Santa Barbara-Santa Maria-Lompoc .....	22.0	22.3	22.6	5.1	5.2	5.3	34.1	34.2	34.6
Santa Rosa-Petaluma .....	19.0	20.2	21.0	5.9	6.0	6.2	32.0	33.4	34.6
Stockton .....	24.0	24.5	24.3	8.8	8.7	8.7	33.3	34.6	35.6
Vallejo-Fairfield-Napa .....	11.6	12.2	12.7	4.6	4.6	4.7	29.6	31.3	32.6
<b>Colorado</b> .....	184.5	189.6	193.0	88.3	91.4	92.7	348.0	352.9	360.4
Boulder-Longmont .....	28.9	30.3	30.8	2.3	2.3	2.4	23.1	23.0	23.8
Denver .....	93.8	94.5	95.5	64.2	67.0	67.3	197.0	198.7	200.7
<b>Connecticut</b> .....	385.1	373.3	360.2	71.9	73.1	72.5	369.9	377.7	383.5
Bridgeport-Milford .....	58.3	56.1	53.5	8.5	8.6	8.6	45.7	46.2	45.6
Hartford .....	91.0	89.4	86.0	18.0	18.6	18.6	101.2	103.5	104.7
New Britain .....	20.1	20.1	19.7	3.1	3.2	3.2	13.2	13.6	13.8
New Haven-Meriden .....	46.8	47.4	46.3	18.1	17.3	16.6	57.8	59.6	59.7
Stamford .....	23.8	23.0	21.4	5.2	5.6	5.7	30.1	29.6	30.1
Waterbury .....	24.7	23.8	22.8	3.2	3.3	3.4	17.3	17.7	18.1
<b>Delaware</b> .....	70.5	70.3	72.6	13.4	14.3	14.7	71.0	74.0	74.8
Wilmington .....	59.9	59.7	62.2	14.4	15.1	15.5	58.1	60.6	61.5
<b>District of Columbia</b> .....	16.1	16.3	15.9	24.5	25.1	24.5	62.9	63.8	63.5
Washington MSA .....	86.2	88.8	89.5	100.0	105.5	109.7	415.4	429.9	437.0
<b>Florida</b> .....	531.0	539.6	541.4	254.8	260.8	265.7	1,316.7	1,378.8	1,439.7
Daytona Beach .....	11.9	12.2	12.3	3.4	3.7	4.0	32.9	34.6	35.9
Fort Lauderdale-Hollywood-Pompano Beach .....	45.3	46.3	46.1	22.4	22.6	22.9	139.1	144.2	149.7
Fort Myers-Cape Coral .....	5.3	5.8	6.2	4.7	5.0	5.2	32.2	34.3	37.3
Gainesville .....	5.4	5.7	5.7	1.8	1.8	1.8	20.7	21.2	21.8
Jacksonville .....	38.2	37.9	38.5	27.7	27.7	28.6	106.5	110.9	111.5
Lakeland-Winter Haven .....	22.6	23.4	23.6	6.1	6.6	6.9	38.6	41.1	43.3
Melbourne-Titusville-Palm Bay .....	28.2	29.5	29.7	5.7	5.3	4.2	33.0	35.2	37.9
Miami-Hialeah .....	94.0	92.3	91.8	69.4	70.3	68.4	222.9	231.9	239.3
Orlando .....	55.2	56.9	55.2	24.5	25.8	27.3	124.5	131.4	142.0
Pensacola .....	11.5	11.2	11.3	6.1	6.6	6.5	32.1	32.0	32.8
Sarasota .....	8.6	8.5	8.7	3.5	3.5	3.6	30.5	32.7	34.2
Tallahassee .....	4.7	4.8	4.9	3.0	2.9	3.0	23.4	24.4	26.4
Tampa-St. Petersburg-Clearwater .....	92.8	95.3	95.9	38.1	39.2	40.6	222.9	232.3	240.6
West Palm Beach-Boca Raton-Delray Beach .....	35.7	35.8	34.5	12.2	12.7	13.6	86.6	91.4	96.2

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Alabama</b> .....	70.5	70.3	70.9	276.5	289.8	302.4	300.6	309.5	314.7
Birmingham .....	29.0	28.5	28.7	93.2	93.3	97.9	60.0	61.7	64.3
Huntsville .....	3.6	3.7	3.8	27.7	29.9	31.4	29.1	29.6	30.4
Mobile .....	8.0	8.1	7.8	36.3	38.9	40.4	27.6	28.5	28.8
Montgomery .....	7.5	7.5	7.7	26.0	27.7	29.7	31.7	32.3	33.3
Tuscaloosa .....	2.0	2.1	2.1	8.2	8.8	9.3	18.9	19.3	19.9
<b>Alaska</b> .....	11.3	10.7	10.5	42.5	43.6	47.1	65.8	66.5	68.9
<b>Arizona</b> .....	94.5	94.2	92.6	345.3	368.0	389.0	232.0	237.2	246.1
Phoenix .....	74.9	74.9	74.3	232.0	247.8	262.7	120.0	122.9	126.8
Tucson .....	12.8	12.3	11.4	65.3	69.4	71.8	49.8	51.7	53.7
<b>Arkansas</b> .....	37.8	38.1	38.3	154.1	164.6	173.7	146.1	150.0	154.0
Fayetteville-Springdale .....	1.5	1.6	1.6	7.1	8.0	8.7	10.2	10.5	11.1
Fort Smith .....	2.7	2.8	2.9	16.3	16.4	17.7	7.3	7.7	8.0
Little Rock-North Little Rock .....	15.6	15.7	15.6	52.7	57.7	61.3	45.8	46.9	48.0
Pine Bluff .....	1.5	1.3	1.3	6.2	6.6	6.9	7.3	7.5	7.5
<b>California</b> .....	800.9	807.3	836.3	2,926.7	3,104.1	3,271.5	1,883.7	1,934.1	2,002.1
Anaheim-Santa Ana .....	92.2	93.7	95.4	266.5	289.0	308.4	114.8	117.8	121.2
Bakersfield .....	6.3	6.4	6.5	33.0	34.1	35.4	40.3	40.7	42.4
Fresno .....	13.1	12.1	12.1	47.0	48.2	51.3	44.7	46.5	48.0
Los Angeles-Long Beach .....	286.1	281.9	291.9	1,054.3	1,114.0	1,176.7	494.9	505.6	523.1
Modesto .....	4.4	4.7	5.1	21.4	22.2	23.5	17.2	18.0	19.1
Oakland .....	54.1	56.0	57.3	189.1	202.3	216.9	158.3	160.8	164.4
Oxnard-Ventura .....	10.5	11.0	11.4	48.0	51.0	53.9	40.1	41.1	42.2
Riverside-San Bernardino .....	26.1	27.3	28.7	141.5	149.0	159.3	120.3	128.6	137.7
Sacramento .....	33.5	36.0	38.5	116.4	125.1	133.0	165.8	171.9	178.6
San Diego .....	61.4	65.0	66.7	229.0	242.5	257.5	156.6	162.8	168.9
San Francisco .....	112.5	109.6	109.7	279.1	289.7	300.6	133.9	134.6	135.7
San Jose .....	33.9	32.0	32.4	198.1	211.1	214.1	86.9	86.4	86.8
Santa Barbara-Santa Maria-Lompoc .....	8.6	8.5	8.6	39.4	40.9	41.7	27.1	27.5	28.4
Santa Rosa-Petaluma .....	8.3	8.3	8.0	27.9	29.5	30.8	22.1	22.7	23.2
Stockton .....	8.8	9.1	9.5	30.1	30.9	32.3	30.7	31.6	32.3
Vallejo-Fairfield-Napa .....	4.7	4.8	4.9	28.0	28.9	29.7	37.1	37.8	38.4
<b>Colorado</b> .....	98.6	95.7	96.0	342.3	358.8	380.6	262.2	266.7	270.8
Boulder-Longmont .....	4.1	4.0	4.2	21.4	24.2	26.3	21.3	22.0	22.3
Denver .....	66.6	63.3	63.7	203.3	209.2	219.8	124.8	126.3	128.5
<b>Connecticut</b> .....	150.5	152.1	151.5	386.5	409.4	425.4	201.2	206.3	209.2
Bridgeport-Milford .....	11.8	12.7	12.5	45.0	49.6	50.5	19.1	19.6	19.9
Hartford .....	76.7	75.4	74.4	106.8	112.7	115.7	60.0	61.8	66.7
New Britain .....	4.1	3.9	3.6	13.4	14.1	14.7	6.6	6.6	6.8
New Haven-Meriden .....	15.3	16.1	16.5	67.9	71.2	75.0	31.0	32.1	32.1
Stamford .....	13.2	13.5	14.0	36.4	37.4	38.1	10.5	10.6	10.8
Waterbury .....	4.4	4.5	4.4	20.5	21.6	22.4	12.3	12.6	12.8
<b>Delaware</b> .....	26.7	29.0	30.2	72.2	77.4	82.6	46.6	47.5	47.9
Wilmington .....	23.7	25.6	26.9	63.8	68.2	72.1	36.8	37.6	37.9
<b>District of Columbia</b> .....	35.9	34.3	33.5	230.9	243.8	253.4	270.6	276.1	277.3
Washington MSA .....	123.3	127.2	130.3	662.6	702.6	731.7	560.0	570.7	583.2
<b>Florida</b> .....	359.3	365.1	371.5	1,304.4	1,393.9	1,502.0	731.8	773.0	805.2
Daytona Beach .....	6.4	6.2	5.9	30.9	32.7	35.3	18.2	19.1	20.1
Fort Lauderdale-Hollywood-Pompano Beach .....	39.7	40.2	40.7	125.9	135.1	145.5	57.2	61.6	64.7
Fort Myers-Cape Coral .....	7.9	8.2	9.1	29.7	32.0	35.0	15.6	17.3	18.3
Gainesville .....	4.3	4.5	4.6	21.7	23.2	24.9	34.1	34.6	35.7
Jacksonville .....	37.6	38.3	39.7	98.7	104.9	108.4	57.0	59.0	61.1
Lakeland-Winter Haven .....	8.3	8.4	9.0	33.9	36.1	38.2	19.1	20.4	21.3
Melbourne-Titusville-Palm Bay .....	5.4	5.6	5.8	41.3	45.6	50.1	20.8	21.9	22.8
Miami-Hialeah .....	68.5	71.1	72.0	225.4	234.0	246.0	106.0	112.3	117.0
Orlando .....	32.6	33.1	33.3	151.9	165.2	182.9	53.8	57.3	60.8
Pensacola .....	5.6	5.4	5.3	30.6	31.9	33.1	28.5	29.4	29.9
Sarasota .....	8.4	8.2	8.0	30.3	33.1	35.5	12.1	12.9	12.9
Tallahassee .....	4.9	5.0	5.1	22.2	24.1	25.7	45.0	47.1	49.4
Tampa-St. Petersburg-Clearwater .....	65.3	65.2	65.5	224.6	241.1	256.9	99.7	102.7	108.6
West Palm Beach-Boca Raton-Delray Beach .....	28.2	28.6	29.4	94.3	101.8	109.6	39.1	42.8	44.3

See footnotes at end of table.



**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Georgia</b> .....	2,782.0	2,878.1	2,945.4	8.5	8.9	8.7	152.2	149.8	146.5
Albany .....	48.8	47.8	47.9	(?)	(?)	(?)	2.7	2.4	2.2
Athens .....	62.8	65.0	67.8	.2	.1	.1	2.5	2.5	2.7
Atlanta .....	1,376.7	1,422.5	1,453.2	1.4	1.5	1.3	72.9	71.1	68.1
Augusta .....	156.5	162.5	169.4	.5	.5	.5	9.5	12.7	14.7
Columbus .....	92.5	93.8	93.4	.1	.1	.1	5.3	5.1	4.7
Macon-Warner Robins .....	118.4	121.1	124.4	.1	.1	.1	5.1	5.0	5.0
Savannah .....	101.9	105.5	108.0	(?)	(?)	(?)	7.0	6.5	7.6
<b>Hawaii</b> .....	460.0	478.1	504.8	(?)	(?)	(?)	21.2	23.4	29.2
Honolulu .....	366.5	378.1	395.6	(?)	(?)	(?)	16.8	18.4	22.5
<b>Idaho</b> .....	333.4	348.5	367.4	2.6	3.3	3.6	13.6	14.2	16.0
Boise City .....	86.7	92.7	99.5	(?)	(?)	(?)	4.4	4.8	5.6
<b>Illinois</b> .....	4,928.3	5,097.5	5,178.9	23.4	21.4	19.8	196.2	204.7	209.5
Aurora-Elgin .....	135.2	140.2	141.3	(?)	(?)	(?)	(?)	7.3	7.5
Bloomington-Normal .....	57.1	59.4	63.1	(?)	(?)	(?)	(?)	1.7	2.6
Champaign-Urbana-Rantoul .....	85.0	86.8	87.7	(?)	(?)	(?)	(?)	2.9	2.5
Chicago .....	3,027.6	3,105.6	3,164.0	2.4	2.7	2.0	119.9	124.7	128.8
Davenport-Rock Island-Moline .....	155.5	156.7	160.7	(?)	(?)	(?)	(?)	5.0	5.4
Decatur .....	50.6	52.9	53.3	(?)	(?)	(?)	(?)	2.8	3.1
Joliet .....	97.0	100.5	103.0	(?)	(?)	(?)	(?)	6.7	8.2
Kankakee .....	32.8	33.2	34.3	(?)	(?)	(?)	(?)	1.5	1.7
Lake County .....	185.3	198.8	208.3	(?)	(?)	(?)	(?)	9.6	12.5
Peoria .....	134.5	140.8	144.2	(?)	(?)	(?)	(?)	6.5	6.5
Rockford .....	125.3	132.8	134.7	(?)	(?)	(?)	(?)	4.3	5.3
Springfield .....	98.8	101.9	103.0	(?)	(?)	(?)	(?)	3.6	3.6
<b>Indiana</b> .....	2,304.9	2,395.6	2,467.3	8.6	8.2	7.8	99.0	107.3	115.0
Anderson .....	48.4	49.2	50.0	(?)	(?)	(?)	1.3	1.4	1.4
Bloomington .....	50.8	53.1	54.6	(?)	(?)	(?)	2.1	2.2	2.2
Elkhart-Goshen .....	97.6	103.4	105.7	(?)	(?)	(?)	2.7	2.9	3.4
Evansville .....	125.6	129.3	133.4	2.3	2.2	2.1	7.5	7.7	7.8
Fort Wayne .....	185.0	192.8	201.0	(?)	(?)	(?)	9.0	9.4	9.4
Gary-Hammond .....	219.4	231.0	239.1	(?)	(?)	(?)	11.6	14.2	16.4
Indianapolis .....	600.3	625.3	653.9	.8	.8	.8	30.0	32.9	35.9
Kokomo .....	44.0	45.1	46.4	(?)	(?)	(?)	1.2	1.2	1.1
Lafayette-West Lafayette .....	63.2	65.8	68.7	(?)	(?)	(?)	2.5	2.7	2.7
Muncie .....	50.2	52.0	52.2	(?)	(?)	(?)	2.0	2.0	1.8
South Bend-Mishawaka .....	110.9	114.9	118.8	(?)	(?)	(?)	4.9	5.7	6.5
Terre Haute .....	52.8	54.3	56.1	.3	.4	.4	1.9	2.1	2.6
<b>Iowa</b> .....	1,109.1	1,156.2	1,200.2	2.2	2.1	2.0	35.6	38.0	40.5
Cedar Rapids .....	85.6	89.9	94.0	(?)	(?)	(?)	(?)	3.7	3.8
Des Moines .....	206.0	215.9	225.1	(?)	(?)	(?)	(?)	7.8	8.3
Dubuque .....	41.5	42.5	43.8	(?)	(?)	(?)	(?)	1.4	1.4
Iowa City .....	50.9	51.5	54.5	(?)	(?)	(?)	(?)	1.4	1.7
Sioux City .....	49.3	51.7	54.1	(?)	(?)	(?)	(?)	2.1	2.2
Waterloo-Cedar Falls .....	60.6	64.4	67.2	(?)	(?)	(?)	(?)	2.1	2.3
<b>Kansas</b> .....	1,005.1	1,035.4	1,067.5	11.3	10.4	9.4	45.4	41.6	40.5
Lawrence .....	31.9	33.5	35.5	(?)	(?)	(?)	(?)	1.5	1.6
Topeka .....	86.4	89.2	90.7	(?)	(?)	(?)	(?)	3.5	3.6
Wichita .....	226.9	230.4	237.9	2.2	2.0	1.8	9.7	9.3	9.0
<b>Kentucky</b> .....	1,328.2	1,381.9	1,434.2	38.8	36.0	34.1	61.6	63.0	66.1
Lexington-Fayette .....	178.7	188.6	197.1	.7	.3	.3	10.6	10.5	10.9
Louisville .....	437.4	454.6	469.2	.6	.7	.6	21.7	22.0	22.7
Owensboro .....	33.4	34.2	35.9	.8	.7	.5	2.1	2.2	2.2
<b>Louisiana</b> .....	1,483.6	1,511.6	1,516.1	54.8	56.3	54.5	81.3	82.3	80.2
Alexandria .....	45.4	45.4	45.8	.2	.2	.2	2.3	2.3	2.8
Baton Rouge .....	211.7	222.0	227.0	.9	1.0	.8	19.7	24.1	25.0
Houma-Thibodaux .....	52.6	54.1	54.6	5.8	5.8	5.5	1.6	1.7	1.9
Lafayette .....	81.7	86.0	87.6	10.6	11.5	11.4	3.2	3.3	3.3
Lake Charles .....	57.8	60.5	62.6	.9	1.0	1.0	4.1	3.9	4.6
Monroe .....	55.0	55.7	55.9	.4	.5	.4	2.8	2.4	2.5
New Orleans .....	509.5	518.8	526.3	14.6	14.7	14.5	22.0	22.4	22.0
Shreveport .....	131.9	130.9	131.1	3.4	3.3	3.0	6.7	6.0	5.3

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Georgia</b> .....	571.2	574.3	568.2	175.4	182.3	183.9	702.7	734.4	752.3
Albany .....	8.3	7.7	7.4	2.3	2.5	2.8	12.5	12.3	12.0
Athens .....	15.1	15.1	15.6	1.8	1.7	1.9	13.2	14.3	14.9
Atlanta .....	188.7	184.7	178.1	115.2	120.3	120.9	384.1	401.2	411.7
Augusta .....	35.5	36.2	37.9	5.2	4.8	4.5	34.2	35.5	36.6
Columbus .....	20.3	19.8	19.1	3.7	3.5	3.1	20.4	20.7	21.4
Macon-Warner Robins .....	18.4	18.7	18.7	5.0	5.1	5.1	27.0	28.3	28.5
Savannah .....	16.7	17.6	17.3	9.3	9.7	9.4	25.3	26.0	26.3
<b>Hawaii</b> .....	21.9	22.0	21.3	36.8	38.0	40.2	123.8	127.5	132.9
Honolulu .....	16.2	16.5	16.0	30.2	31.2	32.6	96.9	99.5	102.1
<b>Idaho</b> .....	54.3	57.9	60.6	17.9	18.6	19.1	84.7	87.3	94.3
Boise City .....	11.0	13.0	14.7	5.2	5.3	5.5	22.6	23.8	26.0
<b>Illinois</b> .....	940.2	975.2	981.5	295.5	298.8	304.4	1,221.2	1,247.5	1,274.5
Aurora-Elgin .....	35.9	38.3	39.6	3.0	3.2	3.4	37.7	36.6	35.5
Bloomington-Normal .....	5.2	5.5	7.2	2.6	2.7	2.7	13.1	13.7	14.1
Champaign-Urbana-Rantoul .....	7.9	8.3	8.2	2.3	2.3	2.3	19.5	19.9	19.2
Chicago .....	555.1	564.5	560.4	191.4	195.3	203.8	757.1	762.4	774.5
Davenport-Rock Island-Moline .....	32.7	32.0	32.8	8.2	7.4	7.2	42.8	44.3	46.3
Decatur .....	13.5	13.9	14.1	5.0	5.1	5.0	11.4	11.7	11.5
Joliet .....	19.0	19.2	18.9	8.3	8.4	8.6	22.9	23.3	23.7
Kankakee .....	4.9	5.2	5.5	1.4	1.5	2.1	6.3	8.3	8.8
Lake County .....	41.5	44.6	46.5	6.8	6.3	5.8	50.7	55.6	59.0
Peoria .....	31.1	32.9	33.6	6.9	7.0	7.0	33.3	33.8	35.0
Rockford .....	42.6	47.9	47.9	4.5	4.8	4.7	28.8	29.5	30.5
Springfield .....	3.9	3.9	3.9	4.7	4.6	4.7	22.7	23.6	23.4
<b>Indiana</b> .....	616.6	636.7	642.2	118.6	123.9	128.1	547.6	568.2	590.4
Anderson .....	17.4	17.1	16.9	1.4	1.4	1.4	11.1	11.5	12.0
Bloomington .....	8.8	9.4	9.5	1.7	1.7	1.7	11.5	11.8	12.0
Elkhart-Goshen .....	53.0	56.6	54.7	2.8	2.9	3.3	18.0	18.6	19.8
Evansville .....	30.5	30.9	31.1	6.5	6.6	6.9	33.0	33.8	35.1
Fort Wayne .....	50.8	52.9	54.1	12.0	12.8	13.4	45.9	47.4	49.2
Gary-Hammond .....	54.4	56.5	56.7	14.8	15.6	15.4	52.3	54.5	57.1
Indianapolis .....	107.1	107.4	108.9	36.3	38.4	40.9	155.2	161.8	170.9
Kokomo .....	18.7	18.9	19.0	1.4	1.4	1.5	9.5	10.0	10.6
Lafayette-West Lafayette .....	11.8	12.4	12.9	2.0	1.9	1.8	13.0	13.6	14.5
Muncie .....	10.7	11.1	10.9	2.3	2.4	2.8	12.5	12.9	13.0
South Bend-Mishawaka .....	23.9	23.7	22.9	5.0	5.2	5.1	29.2	30.2	31.8
Terre Haute .....	10.4	10.3	10.5	2.7	2.9	2.9	14.3	14.7	15.4
<b>Iowa</b> .....	213.5	226.4	234.0	52.7	54.1	55.7	282.3	294.3	306.4
Cedar Rapids .....	22.2	23.2	23.8	5.4	5.6	5.8	20.7	21.6	22.3
Des Moines .....	23.8	25.4	25.4	12.0	12.5	12.6	53.9	56.0	58.6
Dubuque .....	12.1	12.3	12.4	1.6	1.7	1.7	9.6	9.9	10.4
Iowa City .....	4.0	4.3	4.5	1.1	1.1	1.3	10.0	10.4	10.6
Sioux City .....	8.6	10.0	10.7	3.1	3.1	3.4	13.0	13.5	14.1
Waterloo-Cedar Falls .....	13.2	14.9	15.7	1.7	1.8	1.8	14.5	15.4	16.4
<b>Kansas</b> .....	176.2	181.6	184.6	62.6	64.1	66.0	251.3	260.5	267.0
Lawrence .....	4.5	4.5	4.6	1.3	1.0	1.0	7.1	7.6	7.9
Topeka .....	8.8	9.0	9.5	6.7	6.8	7.0	19.4	21.0	20.5
Wichita .....	59.7	61.1	63.6	10.7	10.8	11.2	53.3	54.1	54.5
<b>Kentucky</b> .....	262.5	274.1	283.9	70.1	74.2	76.7	317.7	333.1	346.8
Lexington-Fayette .....	28.7	31.6	33.4	8.0	8.4	9.0	41.6	43.4	44.4
Louisville .....	87.1	88.5	88.4	27.2	29.1	30.3	108.7	114.2	118.4
Owensboro .....	5.6	6.0	6.3	2.1	2.1	2.2	8.7	8.9	9.6
<b>Louisiana</b> .....	164.5	171.5	174.0	104.7	107.1	106.1	361.5	364.5	365.5
Alexandria .....	3.4	3.3	3.4	2.2	2.2	2.3	11.0	10.9	10.6
Baton Rouge .....	18.8	19.9	21.0	10.3	10.6	10.4	50.6	52.5	53.6
Houma-Thibodaux .....	4.2	4.8	4.8	5.7	6.1	6.2	13.6	13.9	14.1
Lafayette .....	6.2	7.3	7.6	5.7	5.9	6.2	22.3	23.2	23.9
Lake Charles .....	10.6	11.2	11.6	3.8	4.1	4.1	14.3	14.6	14.9
Monroe .....	7.2	7.4	7.5	2.9	3.0	3.1	14.5	14.4	14.3
New Orleans .....	41.7	43.6	44.0	43.4	43.4	43.2	134.3	134.8	135.8
Shreveport .....	18.0	17.8	17.5	8.3	8.2	8.4	32.1	32.2	32.3

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Georgia</b> .....	155.4	161.2	163.5	539.9	573.1	609.5	476.6	494.1	512.7
Albany .....	2.4	2.3	2.1	8.1	7.9	8.5	12.5	12.6	12.9
Athens .....	1.9	1.9	2.0	9.6	10.2	11.1	18.5	19.1	19.6
Atlanta .....	99.1	103.5	105.8	320.8	336.7	356.8	194.5	203.6	210.4
Augusta .....	5.4	5.7	5.6	32.6	32.9	34.4	33.5	34.2	35.1
Columbus .....	6.2	6.4	6.0	16.0	17.5	18.2	20.6	20.7	20.8
Macon-Warner Robins .....	7.3	7.4	7.3	21.9	23.2	24.6	33.5	33.3	35.0
Savannah .....	4.4	4.5	4.9	23.4	25.2	26.0	15.7	16.0	16.4
<b>Hawaii</b> .....	33.7	34.4	35.1	126.5	133.3	144.6	96.1	99.5	101.5
Honolulu .....	28.4	28.8	28.6	97.2	100.2	109.0	80.8	83.5	84.8
<b>Idaho</b> .....	19.2	19.2	19.3	67.9	72.1	76.3	73.3	76.0	78.1
Boise City .....	7.6	7.6	7.7	19.2	20.6	21.8	17.0	17.5	18.3
<b>Illinois</b> .....	359.5	369.0	372.4	1,167.9	1,242.0	1,278.8	724.5	738.8	738.0
Aurora-Elgin .....	7.3	8.2	7.3	29.8	31.3	32.3	15.1	15.5	15.8
Bloomington-Normal .....	9.7	10.2	10.8	12.4	13.0	13.2	12.5	12.5	12.6
Champaign-Urbana-Rantoul .....	3.4	3.3	3.1	15.9	16.5	17.5	33.4	33.6	35.0
Chicago .....	259.2	265.7	269.5	786.0	823.1	856.8	356.5	367.2	368.2
Davenport-Rock Island-Moline .....	8.0	7.7	7.7	31.9	33.5	34.7	26.9	26.8	26.7
Decatur .....	2.6	2.3	2.3	10.8	11.6	11.6	5.2	5.6	5.7
Joliet .....	3.8	3.7	3.5	20.8	22.6	23.2	16.1	16.6	16.9
Kankakee .....	1.5	1.4	1.3	8.7	8.8	8.5	6.6	6.5	6.5
Lake County .....	6.9	8.2	10.0	41.8	44.0	43.9	28.9	30.5	30.7
Peoria .....	7.1	7.5	7.2	34.6	37.2	39.2	16.1	15.9	15.8
Rockford .....	5.2	5.3	5.2	27.6	29.0	29.1	11.8	12.1	12.0
Springfield .....	8.1	7.9	8.1	24.6	25.8	26.1	31.8	32.6	33.1
<b>Indiana</b> .....	115.3	118.6	122.1	451.9	478.3	503.2	347.2	354.5	358.5
Anderson .....	1.6	1.6	1.6	9.7	10.2	10.7	5.8	5.9	6.1
Bloomington .....	1.7	1.9	2.0	8.1	8.8	9.7	17.0	17.3	17.5
Elkhart-Goshen .....	2.5	2.7	3.0	13.0	14.0	15.6	5.6	5.6	5.9
Evansville .....	5.1	5.3	5.4	28.7	30.5	33.1	11.9	12.3	12.0
Fort Wayne .....	12.1	12.3	12.6	37.8	40.6	45.3	17.3	17.4	17.1
Gary-Hammond .....	8.2	8.3	8.3	47.7	51.1	54.1	30.3	30.9	31.1
Indianapolis .....	45.6	47.7	49.3	135.4	144.6	153.4	89.9	91.7	93.8
Kokomo .....	1.4	1.4	1.4	6.5	6.7	7.1	5.4	5.5	5.7
Lafayette-West Lafayette .....	3.0	3.1	3.1	11.2	12.1	13.3	19.7	19.9	20.4
Muncie .....	1.6	1.7	1.7	10.3	10.9	11.2	10.7	11.0	10.8
South Bend-Mishawaka .....	6.2	6.0	6.2	30.7	32.9	34.9	11.1	11.3	11.4
Terre Haute .....	1.9	2.0	2.0	11.0	11.7	12.2	10.3	10.3	10.2
<b>Iowa</b> .....	64.5	66.2	68.4	248.1	263.0	276.1	210.2	212.1	217.0
Cedar Rapids .....	4.8	4.7	4.6	19.0	21.1	22.9	10.2	10.1	10.8
Des Moines .....	26.8	29.1	31.4	52.4	55.0	57.8	29.5	30.3	31.1
Dubuque .....	1.4	1.4	1.5	12.0	12.5	12.8	3.4	3.5	3.6
Iowa City .....	1.5	1.4	1.4	8.0	8.6	9.5	25.1	24.2	25.5
Sioux City .....	2.6	2.5	2.5	13.8	14.0	14.6	6.4	6.5	6.7
Waterloo-Cedar Falls .....	3.0	2.9	2.9	14.3	15.1	15.5	12.0	12.3	12.7
<b>Kansas</b> .....	56.8	57.7	58.1	202.6	215.1	231.0	199.0	204.4	210.9
Lawrence .....	1.1	1.3	1.5	5.7	6.4	7.3	10.8	11.1	11.7
Topeka .....	6.2	6.4	6.6	20.5	21.1	21.7	20.8	21.3	21.8
Wichita .....	11.2	11.1	10.9	53.9	54.4	59.3	25.9	27.6	27.7
<b>Kentucky</b> .....	60.0	59.4	60.5	277.4	296.0	312.9	240.2	246.1	253.2
Lexington-Fayette .....	9.1	9.3	9.4	41.7	44.4	48.0	38.2	40.6	41.8
Louisville .....	27.9	26.5	27.0	104.3	112.9	120.0	59.9	60.9	61.9
Owensboro .....	1.4	1.4	1.5	7.7	7.9	8.4	5.0	5.1	5.3
<b>Louisiana</b> .....	84.5	82.3	78.7	319.2	335.0	344.9	313.1	312.6	312.2
Alexandria .....	2.6	2.5	2.5	11.0	11.3	11.5	12.6	12.7	12.6
Baton Rouge .....	13.5	13.3	13.1	43.3	46.8	49.8	54.7	54.0	53.3
Houma-Thibodaux .....	2.3	2.2	2.1	8.7	9.1	9.5	10.6	10.4	10.5
Lafayette .....	3.9	3.6	3.3	17.3	18.7	19.4	12.6	12.5	12.5
Lake Charles .....	2.7	3.0	3.1	11.1	11.9	12.7	10.3	10.8	10.7
Monroe .....	4.5	4.4	4.3	11.6	12.1	12.5	10.9	11.6	11.3
New Orleans .....	34.1	33.5	33.2	132.9	140.4	147.5	86.6	86.1	86.2
Shreveport .....	7.4	6.9	6.3	31.1	31.1	32.0	25.1	25.4	25.3

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Maine</b> .....	501.1	527.1	543.7	0.1	0.2	0.1	31.5	33.3	33.1
Lewiston-Auburn .....	39.2	40.7	41.4	(?)	(?)	(?)	2.2	2.3	2.2
Portland .....	121.9	128.8	132.0	(?)	(?)	(?)	8.4	9.1	8.5
<b>Maryland</b> .....	2,028.0	2,102.3	2,147.7	1.8	1.7	1.7	152.3	161.1	162.3
Baltimore MSA .....	1,092.1	1,120.7	1,141.5	.3	.3	.3	73.2	75.7	77.6
Baltimore City .....	459.7	470.7	478.1	(?)	(?)	(?)	(?)	19.9	20.7
Suburban Maryland-D.C. ....	718.4	751.0	772.9	(?)	(?)	(?)	(?)	69.1	71.6
<b>Massachusetts</b> .....	3,061.8	3,126.2	3,115.4	1.6	1.7	1.5	137.7	142.1	127.7
Boston .....	1,717.1	1,751.1	1,741.2	.8	.9	.6	69.5	73.3	64.9
Brockton .....	72.4	74.1	74.4	(?)	(?)	(?)	3.8	3.8	3.5
Fall River .....	55.4	56.1	57.0	(?)	(?)	(?)	2.4	2.7	2.5
Fitchburg-Leominster .....	40.2	41.9	41.5	(?)	(?)	(?)	2.5	2.6	2.1
Lawrence-Haverhill .....	161.5	165.4	164.9	(?)	(?)	(?)	8.2	8.0	7.1
Lowell .....	106.4	109.5	106.8	(?)	(?)	(?)	(?)	5.7	4.9
New Bedford .....	66.9	68.4	68.3	(?)	(?)	(?)	3.2	3.3	3.0
Pittsfield .....	42.0	42.7	42.6	.1	.1	.1	2.3	2.4	2.1
Springfield .....	237.5	242.6	243.1	.1	.2	.2	9.8	10.2	9.2
Worcester .....	198.9	205.6	204.0	.1	.2	.2	9.6	10.3	9.0
<b>Michigan</b> .....	3,735.8	3,819.2	3,904.5	9.9	10.5	10.7	123.3	132.2	137.8
Ann Arbor .....	164.2	170.6	172.5	(?)	(?)	(?)	(?)	6.0	5.7
Battle Creek .....	57.6	58.7	59.8	(?)	(?)	(?)	(?)	2.0	2.3
Benton Harbor .....	63.8	65.3	66.6	(?)	(?)	(?)	(?)	1.7	1.7
Detroit .....	1,865.9	1,904.7	1,935.9	.8	1.1	1.1	61.4	63.8	65.2
Flint .....	169.8	160.0	164.8	(?)	(?)	(?)	(?)	5.2	5.2
Grand Rapids .....	314.9	332.1	343.6	(?)	(?)	(?)	(?)	16.2	16.4
Jackson .....	52.0	52.2	54.2	(?)	(?)	(?)	(?)	1.7	1.9
Kalamazoo .....	104.4	108.5	111.5	(?)	(?)	(?)	(?)	3.7	4.2
Lansing-East Lansing .....	205.4	210.3	212.9	(?)	(?)	(?)	(?)	6.2	6.3
Muskegon .....	56.5	57.8	58.4	(?)	(?)	(?)	(?)	2.5	2.3
Saginaw-Bay City-Midland .....	151.4	155.3	159.1	(?)	(?)	(?)	(?)	7.8	8.1
<b>Minnesota</b> .....	1,958.4	2,028.1	2,091.2	6.0	7.2	7.5	80.1	77.8	79.3
Duluth .....	88.7	91.8	95.5	3.9	5.0	5.3	4.0	3.3	3.6
Minneapolis-St. Paul .....	1,278.8	1,317.6	1,353.2	(?)	(?)	(?)	53.1	51.6	51.6
Rochester .....	56.7	59.9	63.4	(?)	(?)	(?)	1.9	2.1	2.2
St. Cloud .....	68.4	72.2	77.3	(?)	(?)	(?)	3.6	3.6	3.9
<b>Mississippi</b> .....	864.4	896.2	921.4	6.0	6.2	5.9	33.9	35.2	36.4
Jackson .....	175.7	180.7	185.0	.9	.8	.7	8.4	8.5	7.8
<b>Missouri</b> .....	2,197.8	2,258.9	2,308.0	5.5	5.3	5.2	98.7	97.4	97.5
Kansas City .....	740.3	759.8	774.8	(?)	(?)	(?)	(?)	34.6	32.7
St. Louis .....	1,122.5	1,148.6	1,174.6	(?)	(?)	(?)	(?)	60.1	61.6
Springfield .....	107.9	113.1	116.8	(?)	(?)	(?)	(?)	4.8	4.7
<b>Montana</b> .....	274.1	282.9	290.5	5.7	6.2	6.3	8.8	9.0	9.7
<b>Nebraska</b> .....	667.2	688.1	705.7	1.7	1.6	1.5	24.5	24.5	23.9
Lincoln .....	111.8	116.2	118.8	(?)	(?)	(?)	(?)	4.1	3.9
Omaha .....	301.7	310.5	321.4	(?)	(?)	(?)	(?)	11.9	11.6
<b>Nevada</b> .....	500.2	537.6	582.3	8.1	11.1	13.6	30.1	36.3	45.6
Las Vegas .....	284.6	307.6	341.0	.3	.2	.3	18.7	22.7	31.4
Reno .....	131.5	136.8	141.2	.9	1.2	1.5	6.9	7.4	7.4
<b>New Hampshire</b> .....	512.8	529.0	526.5	.6	.7	.4	36.8	35.9	31.1
Manchester .....	85.2	86.3	87.2	(?)	(?)	(?)	6.0	5.8	5.6
Nashua .....	93.3	95.3	94.0	(?)	(?)	(?)	(?)	5.0	4.0
Portsmouth-Dover-Rochester .....	109.0	112.5	112.8	(?)	(?)	(?)	(?)	6.0	5.2
<b>New Jersey</b> .....	3,581.6	3,659.5	3,709.8	2.3	2.4	2.5	164.4	170.5	167.5
Atlantic City .....	163.2	168.9	170.7	(?)	(?)	(?)	(?)	10.0	9.8
Bergen-Passaic .....	664.2	672.6	674.1	(?)	(?)	(?)	(?)	33.4	32.2
Camden .....	421.9	437.3	452.8	(?)	(?)	(?)	(?)	24.5	25.7
Jersey City .....	242.6	247.4	252.0	(?)	(?)	(?)	(?)	7.0	7.0
Middlesex-Somerset-Hunterdon .....	514.3	532.1	542.7	.6	.6	.7	23.0	23.6	23.3
Monmouth-Ocean .....	321.8	331.4	339.1	(?)	(?)	(?)	(?)	21.2	20.8
Newark .....	949.7	956.4	973.6	.7	.8	.8	37.7	38.6	38.7
Trenton .....	192.8	197.0	198.5	(?)	(?)	(?)	(?)	5.3	5.4
Vineland-Millville-Bridgeton .....	55.5	57.8	58.6	.4	.4	.4	2.1	2.4	2.4

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry--Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Maine</b> .....	104.1	108.0	106.3	20.5	21.2	21.9	123.7	131.8	136.6
Lewiston-Auburn .....	10.1	10.3	9.7	1.4	1.4	1.4	9.6	10.2	10.9
Portland .....	15.9	17.3	16.7	5.8	5.6	5.2	36.5	38.9	40.5
<b>Maryland</b> .....	208.4	210.2	209.0	93.1	96.8	100.8	518.5	535.6	540.5
Baltimore MSA .....	132.8	132.9	130.5	53.0	54.8	55.5	268.6	274.1	278.6
Baltimore City .....	44.8	44.7	44.8	27.5	28.2	28.1	97.2	96.6	95.7
Suburban Maryland-D.C. ....	34.6	36.7	38.2	26.6	28.7	31.5	193.0	199.9	199.2
<b>Massachusetts</b> .....	599.1	584.7	563.3	131.0	133.6	128.0	723.4	739.4	746.0
Boston .....	279.7	269.6	258.7	76.6	77.2	74.1	386.7	393.1	393.7
Brockton .....	11.3	10.8	10.0	5.2	5.0	4.6	21.9	23.0	24.3
Fall River .....	17.0	16.1	15.5	1.9	1.9	1.8	14.1	14.6	15.6
Fitchburg-Leominster .....	12.0	12.1	12.2	1.6	1.7	1.5	10.1	10.3	10.3
Lawrence-Haverhill .....	50.7	50.7	48.1	6.8	6.9	6.6	36.1	36.5	37.3
Lowell .....	36.6	37.0	35.4	3.9	4.8	4.7	22.8	23.3	22.8
New Bedford .....	19.6	18.8	18.1	2.8	2.9	2.8	16.3	17.0	17.0
Pittsfield .....	11.9	11.0	10.7	1.1	1.3	1.3	9.5	9.8	10.1
Springfield .....	50.7	50.4	48.7	9.6	9.8	9.8	55.9	57.6	59.8
Worcester .....	45.5	44.5	44.6	8.6	9.6	9.1	48.2	49.6	49.9
<b>Michigan</b> .....	972.5	955.4	967.6	152.3	153.8	152.0	860.6	894.3	920.4
Ann Arbor .....	39.5	39.1	37.7	4.3	4.6	4.8	28.9	29.8	30.2
Battle Creek .....	15.3	15.9	16.7	1.9	1.8	1.6	11.6	11.8	12.0
Benton Harbor .....	22.0	22.0	21.7	2.3	2.4	2.5	13.1	14.0	14.6
Detroit .....	472.1	460.7	460.5	86.0	87.5	86.9	435.9	453.6	466.0
Flint .....	57.0	49.5	51.2	4.6	4.2	4.3	42.9	40.1	41.5
Grand Rapids .....	96.3	99.7	102.2	11.3	11.7	11.4	81.0	86.2	90.4
Jackson .....	13.3	12.6	13.5	4.3	4.1	4.1	11.7	12.3	12.9
Kalamazoo .....	29.7	30.9	30.7	3.2	3.2	3.2	23.3	24.2	25.8
Lansing-East Lansing .....	35.3	34.1	32.7	5.7	5.5	5.5	42.6	44.8	46.0
Muskegon .....	17.5	17.1	17.1	2.3	2.2	2.2	12.6	13.2	13.5
Saginaw-Bay City-Midland .....	43.8	43.6	44.6	6.7	6.5	6.3	36.2	37.5	38.4
<b>Minnesota</b> .....	376.4	394.1	399.1	99.9	101.7	105.4	489.3	505.3	517.4
Duluth .....	7.5	7.8	8.4	5.7	5.7	5.8	22.0	23.0	24.1
Minneapolis-St. Paul .....	254.2	263.4	263.9	69.0	70.6	74.1	316.2	326.6	331.6
Rochester .....	10.6	11.2	11.7	1.7	1.7	1.9	11.6	12.1	12.8
St. Cloud .....	11.9	13.1	14.3	3.4	3.6	3.8	21.1	22.1	23.9
<b>Mississippi</b> .....	228.6	238.8	243.4	42.4	44.2	45.6	185.2	191.4	197.5
Jackson .....	20.3	21.0	21.4	12.7	13.3	14.0	42.1	42.9	43.6
<b>Missouri</b> .....	424.0	433.9	438.9	142.8	147.8	150.5	539.9	555.7	569.4
Kansas City .....	111.5	112.1	110.4	58.0	60.1	63.5	193.7	200.2	203.4
St. Louis .....	219.9	222.6	224.1	72.9	75.0	76.7	274.1	279.8	288.2
Springfield .....	20.4	21.5	21.3	6.8	6.9	7.2	30.6	32.0	33.5
<b>Montana</b> .....	20.8	21.3	22.0	19.5	19.6	20.0	72.6	74.7	77.6
<b>Nebraska</b> .....	88.6	93.6	94.8	43.0	44.3	45.8	173.0	178.5	183.7
Lincoln .....	13.3	14.2	14.4	6.0	6.2	6.5	26.4	26.7	27.1
Omaha .....	33.7	35.1	35.6	23.0	23.6	24.3	77.0	79.6	83.0
<b>Nevada</b> .....	23.3	24.9	25.4	27.8	29.1	30.6	102.2	109.8	119.7
Las Vegas .....	8.7	9.4	9.9	15.7	16.4	17.9	60.3	64.8	72.5
Reno .....	8.4	8.6	8.5	9.0	9.4	9.4	29.6	31.3	32.5
<b>New Hampshire</b> .....	117.5	117.9	113.9	17.3	18.4	17.6	130.4	135.9	136.5
Manchester .....	12.6	12.3	11.9	5.2	4.7	4.8	23.8	24.1	23.3
Nashua .....	36.2	35.5	34.3	2.3	2.6	3.2	21.7	22.9	23.3
Portsmouth-Dover-Rochester .....	20.5	21.2	21.1	2.9	3.2	2.8	28.6	29.7	28.7
<b>New Jersey</b> .....	675.4	666.3	653.5	237.6	239.9	241.9	862.0	882.4	891.2
Atlantic City .....	8.4	8.6	8.6	6.4	6.8	6.6	35.8	37.4	37.5
Bergen-Passaic .....	159.6	155.5	150.3	28.2	28.8	29.6	190.0	193.4	194.5
Camden .....	72.5	73.2	72.7	18.4	19.3	19.6	114.6	118.6	123.5
Jersey City .....	48.9	45.3	43.6	32.2	33.3	33.8	60.0	61.8	61.9
Middlesex-Somerset-Hunterdon .....	113.0	115.8	114.6	42.7	42.4	41.8	123.9	129.9	132.4
Monmouth-Ocean .....	30.1	29.0	28.0	16.9	17.6	17.3	88.2	90.9	92.0
Newark .....	181.3	176.0	174.5	80.5	78.6	80.9	196.4	197.4	198.0
Trenton .....	31.0	30.4	29.0	6.4	6.7	6.7	31.0	31.5	31.6
Vineland-Millville-Bridgeton .....	15.3	15.5	16.7	2.1	2.1	2.2	11.0	12.0	11.4

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Maine</b> .....	24.8	25.1	25.5	108.0	115.9	123.6	88.4	91.6	94.7
Lewiston-Auburn .....	2.2	2.3	2.4	9.9	10.3	10.6	3.8	3.9	4.2
Portland .....	12.1	12.0	11.8	28.2	30.5	33.4	14.9	15.4	15.8
<b>Maryland</b> .....	125.5	129.1	131.3	535.7	568.8	591.4	392.9	399.1	410.7
Baltimore MSA .....	75.3	77.1	77.1	283.8	300.3	312.9	205.1	205.8	209.1
Baltimore City .....	44.3	45.7	45.8	137.4	144.7	150.6	89.1	91.0	92.4
Suburban Maryland-D.C. ....	41.3	43.5	45.5	208.3	218.8	226.2	150.2	154.3	160.7
<b>Massachusetts</b> .....	217.9	221.5	217.9	853.9	896.6	924.7	397.2	406.7	406.3
Boston .....	149.8	151.2	148.2	554.5	581.3	596.0	199.5	204.4	205.0
Brockton .....	3.2	3.4	3.6	15.1	15.9	16.4	11.9	12.2	12.1
Fall River .....	3.0	3.3	3.5	10.3	10.7	11.1	6.7	6.8	6.9
Fitchburg-Leominster .....	1.7	1.7	1.6	7.9	8.8	9.1	4.4	4.8	4.8
Lawrence-Haverhill .....	6.3	6.5	6.5	33.2	35.6	37.6	20.2	21.3	21.8
Lowell .....	4.1	3.9	3.8	20.4	21.5	22.0	13.0	13.3	13.2
New Bedford .....	2.5	2.5	2.5	12.9	14.0	15.0	9.7	9.9	9.9
Pittsfield .....	2.0	2.0	2.0	10.4	11.2	11.6	4.7	4.9	4.7
Springfield .....	16.0	15.9	15.6	57.0	59.3	60.8	38.4	39.2	39.1
Worcester .....	13.8	14.4	14.2	49.1	52.3	52.6	23.9	24.9	24.5
<b>Michigan</b> .....	179.6	186.2	188.6	826.0	863.3	900.2	611.6	623.5	627.3
Ann Arbor .....	4.6	4.7	4.6	31.6	34.8	36.7	49.8	51.4	52.7
Battle Creek .....	3.7	3.4	3.2	11.9	12.3	12.5	11.3	11.4	11.5
Benton Harbor .....	2.5	2.5	2.6	13.8	14.2	14.9	8.4	8.6	8.6
Detroit .....	105.8	110.3	111.0	464.5	484.4	505.4	239.3	243.4	239.7
Flint .....	6.0	5.8	5.9	31.0	31.9	33.4	23.4	23.3	23.2
Grand Rapids .....	14.6	15.2	15.6	65.9	70.4	74.2	31.0	32.8	33.4
Jackson .....	1.9	1.9	1.7	9.7	9.8	10.1	9.6	9.7	10.0
Kalamazoo .....	4.6	4.8	5.0	23.4	24.5	25.2	16.8	17.3	17.5
Lansing-East Lansing .....	11.9	12.2	12.8	37.9	40.3	41.9	66.1	67.3	67.7
Muskegon .....	1.4	1.4	1.5	11.6	11.9	12.3	8.8	9.3	9.5
Saginaw-Bay City-Midland .....	6.0	6.2	6.3	31.7	33.1	35.0	20.4	20.6	20.4
<b>Minnesota</b> .....	119.1	119.6	120.5	473.8	501.6	534.4	313.8	320.8	327.6
Duluth .....	3.1	3.1	3.2	21.2	22.4	23.6	21.3	21.5	21.7
Minneapolis-St. Paul .....	92.0	92.7	93.0	322.0	336.2	358.6	171.6	176.0	179.8
Rochester .....	1.5	1.5	1.6	23.5	25.2	26.9	5.9	6.2	6.3
St. Cloud .....	2.3	2.3	2.4	14.5	15.0	15.9	11.8	12.4	13.0
<b>Mississippi</b> .....	38.4	38.9	38.9	138.8	145.4	153.4	191.1	196.0	200.2
Jackson .....	14.3	14.6	14.8	38.4	39.8	41.8	38.7	39.9	41.1
<b>Missouri</b> .....	135.5	135.7	135.1	507.4	531.3	552.8	344.0	351.8	358.6
Kansas City .....	58.8	58.9	58.9	171.1	180.5	188.8	109.6	113.2	117.1
St. Louis .....	74.7	75.3	74.5	282.5	294.7	307.1	139.1	141.2	142.6
Springfield .....	4.9	5.1	5.4	26.9	28.7	30.1	13.5	14.1	14.6
<b>Montana</b> .....	13.2	13.5	13.2	64.1	68.0	71.6	69.4	70.7	70.1
<b>Nebraska</b> .....	48.0	47.4	48.3	153.0	160.5	167.2	135.3	137.8	140.5
Lincoln .....	8.1	8.3	8.5	24.0	26.1	27.2	29.9	30.7	31.3
Omaha .....	28.9	28.1	28.9	81.9	86.1	91.3	45.2	46.2	46.8
<b>Nevada</b> .....	23.4	24.5	25.5	221.2	235.1	251.1	64.1	67.0	70.8
Las Vegas .....	14.0	15.2	16.4	134.6	145.0	156.6	32.3	33.9	36.0
Reno .....	7.0	6.8	6.6	53.6	55.2	58.0	16.1	16.8	17.3
<b>New Hampshire</b> .....	31.3	32.3	32.7	113.6	119.4	124.3	65.4	68.7	69.9
Manchester .....	8.4	8.3	8.7	21.0	22.6	24.2	8.3	8.6	8.7
Nashua .....	3.8	3.8	3.4	17.6	18.4	18.2	6.6	7.0	7.6
Portsmouth-Dover-Rochester .....	6.4	7.0	7.2	19.8	20.3	22.8	24.6	25.0	25.1
<b>New Jersey</b> .....	226.8	236.1	242.7	871.4	911.1	951.7	541.8	550.9	558.8
Atlantic City .....	7.1	7.4	6.9	70.7	73.1	75.1	24.8	25.6	26.3
Bergen-Passaic .....	37.5	38.8	39.2	150.3	154.5	160.0	67.1	68.1	68.2
Camden .....	24.1	24.7	25.2	98.7	105.1	112.1	70.4	72.0	74.1
Jersey City .....	12.4	14.4	16.5	41.8	46.3	49.3	40.5	39.3	39.8
Middlesex-Somerset-Hunterdon .....	36.1	38.3	39.2	104.6	109.7	117.2	70.4	71.7	73.6
Monmouth-Ocean .....	18.0	18.7	19.5	87.1	92.0	97.7	60.5	62.1	63.9
Newark .....	76.8	78.3	79.9	242.7	250.6	261.5	133.6	136.1	139.2
Trenton .....	9.4	10.2	10.5	55.5	56.9	59.3	54.5	56.0	56.1
Vineland-Millville-Bridgeton .....	3.1	3.5	3.8	10.1	10.4	10.3	11.4	11.6	11.6

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>New Mexico</b> .....	529.3	547.5	560.6	14.9	15.0	14.5	32.1	31.0	30.6
Albuquerque .....	231.4	236.9	240.8	.2	(?)	(?)	16.0	14.8	13.7
Las Cruces .....	39.4	41.1	42.5	.1	(?)	(?)	2.1	2.2	2.4
Santa Fe .....	54.0	55.4	56.6	.1	(?)	(?)	2.6	2.8	2.8
<b>New York</b> .....	8,059.4	8,186.2	8,265.0	5.9	6.0	5.7	328.8	337.8	336.1
Albany-Schenectady-Troy .....	403.1	416.4	427.6	.4	.5	.5	18.7	20.7	20.9
Binghamton .....	119.6	123.0	121.4	(?)	(?)	(?)	(?)	5.6	5.5
Buffalo .....	436.0	447.2	459.6	(?)	(?)	(?)	(?)	17.4	17.8
Elmira .....	38.3	40.2	41.5	(?)	(?)	(?)	(?)	1.7	1.7
Glens Falls .....	46.9	(?)	(?)	(?)	(?)	(?)	(?)	(?)	(?)
Nassau-Suffolk .....	1,125.7	1,137.4	1,143.3	(?)	(?)	(?)	(?)	60.5	58.3
New York PMSA .....	4,113.6	4,134.0	4,140.9	(?)	(?)	(?)	(?)	153.5	152.1
New York City .....	3,591.4	3,605.0	3,609.3	.7	.5	.4	118.8	120.1	120.1
Niagara Falls .....	80.0	82.1	84.8	(?)	(?)	(?)	(?)	3.5	3.8
Orange County .....	101.3	105.0	107.8	(?)	(?)	(?)	(?)	5.6	5.1
Poughkeepsie .....	116.5	120.3	120.9	(?)	(?)	(?)	6.6	7.0	6.7
Rochester .....	463.1	479.1	489.4	.7	.8	.7	18.0	18.5	19.1
Rockland County .....	96.7	100.0	102.5	(?)	(?)	(?)	5.1	5.0	5.1
Syracuse .....	296.3	304.1	311.0	(?)	(?)	(?)	(?)	15.2	16.3
Utica-Rome .....	120.4	124.4	127.4	(?)	(?)	(?)	(?)	4.1	4.2
Westchester County .....	407.4	410.3	409.9	(?)	(?)	(?)	(?)	26.1	24.7
<b>North Carolina</b> .....	2,862.6	2,986.6	3,067.8	4.9	4.8	4.9	159.9	165.1	163.7
Asheville .....	77.3	81.1	84.9	(?)	(?)	(?)	(?)	4.5	4.6
Charlotte-Gastonia-Rock Hill .....	575.5	598.6	615.1	(?)	(?)	(?)	(?)	36.6	36.4
Greensboro-Winston-Salem-High Point .....	468.4	486.9	486.8	(?)	(?)	(?)	(?)	25.7	24.7
Raleigh-Durham .....	382.6	401.1	420.5	(?)	(?)	(?)	(?)	22.7	22.0
<b>North Dakota</b> .....	252.8	256.7	260.3	4.1	4.2	4.0	10.8	9.9	9.8
Bismarck .....	36.7	37.6	39.0	(?)	(?)	(?)	(?)	1.7	1.7
Fargo-Moorhead .....	70.6	72.8	75.1	(?)	(?)	(?)	(?)	3.4	3.7
Grand Forks .....	29.8	30.2	31.0	(?)	(?)	(?)	(?)	1.3	1.4
<b>Ohio</b> .....	4,582.6	4,700.6	4,817.2	20.9	18.9	17.8	176.4	185.6	193.1
Akron .....	265.1	272.7	282.2	.5	.6	.6	9.1	9.7	10.0
Canton .....	156.4	160.1	164.1	1.0	.9	.7	6.0	6.3	7.1
Cincinnati .....	677.7	701.6	726.4	.4	.4	.4	29.5	31.6	34.3
Cleveland .....	891.6	911.3	935.2	1.1	.9	.9	28.4	29.4	32.9
Columbus .....	658.0	680.5	701.7	.9	.9	.8	27.0	29.2	29.4
Dayton-Springfield .....	429.8	437.7	448.9	.4	.4	.4	16.4	17.2	17.8
Toledo .....	278.0	286.6	293.7	.2	.2	.2	10.1	11.1	11.9
Youngstown-Warren .....	188.3	193.8	198.1	.7	.5	.4	7.3	7.3	7.8
<b>Oklahoma</b> .....	1,108.5	1,131.5	1,154.0	46.0	44.3	43.2	34.6	35.1	35.0
Enid .....	21.7	21.6	21.4	1.1	1.0	.9	.6	.8	.6
Lawton .....	33.9	34.1	34.4	.3	.3	.2	1.2	1.1	1.1
Oklahoma City .....	402.6	410.2	421.5	11.6	11.6	12.1	12.4	12.3	11.5
Tulsa .....	290.7	296.5	304.4	14.7	13.3	12.6	10.1	10.0	10.5
<b>Oregon</b> .....	1,100.1	1,156.0	1,206.6	1.4	1.3	1.4	35.3	39.9	45.2
Eugene-Springfield .....	105.1	109.8	114.8	.2	.2	.2	3.3	3.4	3.9
Portland .....	554.4	583.2	613.8	.5	.4	.4	19.1	22.0	25.6
Salem .....	96.5	101.5	104.5	.1	.1	.1	3.2	3.5	4.1
<b>Pennsylvania</b> .....	4,915.1	5,041.7	5,115.0	30.7	28.7	27.0	218.3	229.6	235.3
Allentown-Bethlehem .....	271.7	277.4	281.3	.6	.6	.6	13.0	13.7	13.6
Altoona .....	50.9	51.7	52.0	(?)	(?)	(?)	2.6	2.5	2.5
Beaver County .....	50.5	49.6	49.4	(?)	(?)	(?)	3.5	2.3	2.5
Erie .....	110.2	114.4	117.2	(?)	(?)	(?)	(?)	3.6	3.7
Harrisburg-Lebanon-Carlisle .....	292.9	302.6	310.5	.3	.3	.4	12.3	13.4	14.1
Johnstown .....	77.6	79.0	79.9	3.5	2.9	2.5	2.7	2.8	2.9
Lancaster .....	178.8	184.3	188.4	.4	.4	.4	10.4	11.3	12.0
Philadelphia PMSA .....	2,141.9	2,186.4	2,196.1	1.1	1.1	1.1	100.3	105.4	103.7
Philadelphia City .....	772.3	775.9	765.5	(?)	(?)	(?)	17.4	17.5	17.6
Pittsburgh .....	855.8	878.9	896.2	5.4	4.8	4.5	41.6	41.4	41.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>New Mexico</b> .....	38.3	40.4	42.1	28.8	29.0	28.9	127.7	130.3	134.2
Albuquerque .....	20.1	20.8	21.2	12.3	12.6	12.6	59.3	59.6	60.7
Las Cruces .....	3.9	3.8	3.6	1.3	1.4	1.5	8.1	8.8	9.0
Santa Fe .....	1.6	1.6	1.7	1.2	1.1	.9	10.4	10.5	10.8
<b>New York</b> .....	1,218.4	1,213.0	1,192.4	405.3	412.1	406.5	1,693.0	1,717.6	1,736.0
Albany-Schenectady-Troy .....	48.9	47.7	46.9	16.5	16.7	16.8	85.9	89.4	92.2
Binghamton .....	37.8	38.6	36.1	4.4	4.3	4.3	25.5	25.9	25.5
Buffalo .....	77.0	77.6	77.3	21.3	21.7	21.7	108.9	111.6	116.7
Elmira .....	7.8	8.5	9.0	1.4	1.4	1.4	10.5	10.6	10.7
Glens Falls .....	10.4	( <sup>2</sup> )	( <sup>2</sup> )	1.3	( <sup>2</sup> )	( <sup>2</sup> )	11.1	( <sup>2</sup> )	( <sup>2</sup> )
Nassau-Suffolk .....	175.3	170.5	162.5	48.3	49.4	47.8	302.3	303.5	303.2
New York PMSA .....	461.3	450.3	437.0	240.5	244.0	237.9	758.3	758.1	755.8
New York City .....	380.7	370.1	360.6	214.9	218.4	213.2	634.2	634.3	633.3
Niagara Falls .....	24.1	23.9	24.0	3.6	3.8	3.9	18.5	19.3	20.4
Orange County .....	14.7	15.1	14.5	6.0	6.1	6.5	26.8	28.5	29.9
Poughkeepsie .....	30.3	30.6	30.2	3.3	3.5	3.6	21.7	22.5	22.4
Rochester .....	132.5	136.3	138.3	14.4	14.5	15.2	99.2	101.8	105.2
Rockland County .....	15.0	15.3	15.0	4.1	4.7	4.9	22.7	23.2	23.8
Syracuse .....	52.5	53.4	53.2	17.9	18.2	18.5	70.3	72.5	75.2
Utica-Rome .....	24.0	24.6	24.5	4.3	4.3	4.2	26.4	27.1	28.1
Westchester County .....	63.8	63.0	59.4	20.8	20.3	19.1	97.0	96.1	94.3
<b>North Carolina</b> .....	856.0	867.5	867.8	141.0	147.9	152.3	643.5	686.0	713.2
Asheville .....	19.3	19.2	19.9	3.7	3.9	4.2	18.5	19.6	20.7
Charlotte-Gastonia-Rock Hill .....	152.8	155.6	154.3	48.3	49.0	49.8	139.4	147.8	153.6
Greensboro-Winston-Salem-High Point .....	153.6	155.2	150.7	27.1	27.1	26.4	105.6	110.5	112.3
Raleigh-Durham .....	58.0	60.2	62.8	17.3	18.6	20.2	82.2	86.2	90.3
<b>North Dakota</b> .....	15.8	16.4	16.4	16.3	16.8	17.0	67.5	68.3	69.4
Bismarck .....	1.9	2.1	2.2	2.6	2.7	2.8	9.8	9.9	10.3
Fargo-Moorhead .....	4.9	5.1	5.3	4.4	4.6	4.7	20.8	21.3	21.7
Grand Forks .....	1.6	1.7	1.6	1.6	1.7	1.6	8.3	8.6	9.0
<b>Ohio</b> .....	1,098.9	1,110.6	1,123.0	207.8	212.1	215.9	1,096.3	1,133.8	1,168.3
Akron .....	66.4	66.2	67.7	12.8	12.8	13.1	65.6	68.0	70.5
Canton .....	44.0	45.3	45.6	5.7	5.7	5.7	39.3	40.1	41.2
Cincinnati .....	146.0	145.7	146.7	35.7	37.8	39.3	170.8	180.0	190.0
Cleveland .....	200.6	203.3	207.0	41.5	41.5	42.1	214.9	220.5	225.5
Columbus .....	103.9	102.6	104.8	28.2	30.0	30.8	167.2	174.0	180.4
Dayton-Springfield .....	104.3	105.0	104.5	15.8	16.8	17.5	96.9	98.7	100.8
Toledo .....	62.2	62.7	61.6	13.7	13.4	14.3	68.4	71.8	74.3
Youngstown-Warren .....	48.9	50.5	50.0	7.6	7.7	7.8	48.2	50.1	52.9
<b>Oklahoma</b> .....	156.8	161.4	163.0	63.3	63.7	65.0	270.4	273.3	275.9
Enid .....	1.5	1.5	1.6	2.2	2.1	2.2	6.4	6.3	6.3
Lawton .....	3.5	3.3	3.4	1.5	1.6	1.9	8.4	8.3	8.4
Oklahoma City .....	47.6	48.1	48.8	20.1	19.9	20.7	99.9	101.5	103.4
Tulsa .....	48.0	51.0	52.4	23.0	23.6	24.1	70.9	71.4	72.6
<b>Oregon</b> .....	206.2	214.2	217.2	58.5	60.5	62.9	276.7	292.4	309.6
Eugene-Springfield .....	19.9	20.9	21.1	4.2	4.3	4.4	26.6	27.8	29.1
Portland .....	94.4	98.3	101.0	34.6	35.7	37.3	145.2	154.3	163.7
Salem .....	14.5	15.3	15.6	2.9	2.9	2.8	21.6	22.8	23.5
<b>Pennsylvania</b> .....	1,044.0	1,055.2	1,049.8	247.2	253.3	253.8	1,121.6	1,155.6	1,176.4
Allentown-Bethlehem .....	77.5	76.5	75.7	14.1	14.3	14.2	59.8	61.4	62.4
Altoona .....	11.2	11.0	10.3	4.5	4.5	4.6	12.9	13.3	13.9
Beaver County .....	9.9	9.4	9.1	5.2	5.0	5.1	11.3	11.5	11.6
Erie .....	34.5	35.5	35.9	3.9	4.1	4.4	23.9	25.1	25.5
Harrisburg-Lebanon-Carlisle .....	52.0	52.2	51.7	18.2	19.1	19.2	66.2	68.8	71.1
Johnstown .....	13.0	13.8	14.4	5.1	5.1	5.1	16.5	17.0	17.2
Lancaster .....	60.0	59.9	59.1	7.0	7.4	7.6	42.8	44.8	46.6
Philadelphia PMSA .....	374.8	373.7	364.9	99.2	101.1	99.6	497.3	508.7	512.6
Philadelphia City .....	96.0	92.2	87.2	45.0	44.4	41.6	148.1	149.3	147.7
Pittsburgh .....	123.8	125.4	123.5	45.6	48.0	48.2	215.7	222.0	226.0

See footnotes at end of table.



**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>New Mexico</b> .....	26.9	26.6	26.5	123.0	133.4	139.1	137.6	141.6	144.6
Albuquerque .....	14.8	14.7	14.3	63.9	67.9	70.5	45.0	46.3	47.9
Las Cruces .....	1.6	1.6	1.7	6.2	6.9	7.5	16.0	16.2	16.7
Santa Fe .....	2.0	2.1	2.1	14.3	14.8	15.2	21.8	22.3	23.0
<b>New York</b> .....	793.5	797.3	794.5	2,212.9	2,268.8	2,346.8	1,402.1	1,433.6	1,446.9
Albany-Schenectady-Troy .....	22.4	24.1	24.8	100.9	105.6	112.7	109.5	111.8	112.7
Binghamton .....	4.1	4.2	4.2	21.9	23.3	24.6	20.8	21.0	21.1
Buffalo .....	26.5	27.6	28.3	111.5	116.1	122.9	74.0	75.0	74.9
Elmira .....	1.4	1.4	1.4	9.4	9.9	10.4	6.3	6.6	6.9
Glens Falls .....	2.0	( <sup>1</sup> )	( <sup>1</sup> )	10.6	( <sup>1</sup> )	( <sup>1</sup> )	9.0	( <sup>1</sup> )	( <sup>1</sup> )
Nassau-Suffolk .....	75.5	79.1	83.3	286.0	292.9	304.3	178.8	181.5	183.9
New York PMSA .....	583.0	577.3	567.0	1,255.8	1,272.7	1,307.1	661.5	678.1	684.0
New York City .....	549.7	542.4	530.5	1,112.0	1,123.1	1,149.9	580.4	586.1	601.3
Niagara Falls .....	1.9	2.0	2.0	16.0	17.0	17.7	12.6	12.6	13.0
Orange County .....	4.1	4.5	4.7	21.9	22.4	23.5	22.2	22.8	23.4
Poughkeepsie .....	4.6	4.8	4.9	25.8	27.6	28.7	24.1	24.3	24.4
Rochester .....	21.8	22.7	23.0	112.2	118.5	121.7	64.3	66.0	66.1
Rockland County .....	5.0	5.3	5.4	24.0	25.5	27.0	20.9	21.1	21.3
Syracuse .....	19.3	20.2	20.0	71.1	73.1	75.5	50.4	51.5	52.2
Utica-Rome .....	6.6	7.1	7.3	26.0	26.9	27.8	29.0	30.2	31.3
Westchester County .....	27.6	29.0	30.3	114.7	119.0	124.8	56.5	56.9	57.3
<b>North Carolina</b> .....	126.2	130.3	132.3	488.8	526.2	560.3	442.3	458.7	473.4
Asheville .....	2.7	2.8	2.8	17.9	19.3	20.3	11.1	11.9	12.5
Charlotte-Gastonia-Rock Hill .....	36.5	37.4	38.0	102.9	107.9	115.1	61.4	64.3	68.1
Greensboro-Winston-Salem-High Point .....	23.0	24.0	23.6	83.2	92.3	96.5	51.2	52.1	52.6
Raleigh-Durham .....	22.9	23.3	23.6	93.2	99.8	107.7	87.0	90.4	93.9
<b>North Dakota</b> .....	12.6	12.3	12.2	61.1	64.0	65.9	64.6	64.8	65.6
Bismarck .....	1.7	1.6	1.5	10.5	11.1	11.6	8.4	8.5	8.9
Fargo-Moorhead .....	4.4	4.4	4.5	18.9	20.0	20.9	13.8	14.0	14.3
Grand Forks .....	1.1	1.1	1.1	6.6	6.6	7.0	8.9	9.0	9.3
<b>Ohio</b> .....	243.8	249.0	252.6	1,051.2	1,096.8	1,140.8	687.3	693.8	705.7
Akron .....	10.6	10.5	10.4	57.8	61.8	66.3	42.2	43.2	43.5
Canton .....	6.5	6.5	6.8	35.6	36.5	38.0	18.5	18.8	19.0
Cincinnati .....	40.4	42.0	42.6	168.0	176.4	183.1	86.8	87.7	89.9
Cleveland .....	54.9	56.1	56.9	233.5	243.3	252.0	116.8	116.3	118.0
Columbus .....	57.0	58.7	59.8	154.4	162.5	170.9	119.4	122.7	124.8
Dayton-Springfield .....	17.9	17.9	17.7	104.5	108.4	114.3	73.5	73.3	75.8
Toledo .....	11.6	12.2	12.1	70.3	72.9	75.9	41.5	42.3	43.3
Youngstown-Warren .....	8.2	8.3	8.6	43.8	45.2	46.5	23.7	24.1	24.2
<b>Oklahoma</b> .....	59.8	58.7	58.5	232.5	246.7	259.2	245.4	248.5	254.1
Enid .....	1.0	1.0	.9	5.4	5.3	5.2	3.5	3.5	3.8
Lawton .....	1.6	1.6	1.6	5.9	6.4	6.2	11.6	11.6	11.6
Oklahoma City .....	24.8	24.2	24.5	90.1	96.6	102.8	96.3	95.7	98.9
Tulsa .....	17.2	16.8	16.7	71.0	73.9	78.6	35.7	36.4	36.9
<b>Oregon</b> .....	72.1	73.3	75.3	244.4	263.2	279.9	205.6	211.2	215.2
Eugene-Springfield .....	4.9	5.3	5.5	23.8	25.1	27.3	22.3	23.0	23.2
Portland .....	47.4	48.0	49.4	135.7	145.3	155.0	77.6	79.3	81.4
Salem .....	5.5	5.6	5.4	19.1	20.8	22.0	29.7	30.5	31.1
<b>Pennsylvania</b> .....	291.9	293.6	296.3	1,272.9	1,331.0	1,379.2	688.7	694.6	697.1
Allentown-Bethlehem .....	11.8	13.5	14.4	65.5	67.5	69.9	29.5	30.0	30.5
Alltoona .....	1.6	1.8	1.9	10.8	11.2	11.5	7.3	7.4	7.2
Beaver County .....	1.7	1.7	1.7	11.3	11.9	11.5	7.7	7.9	7.9
Erie .....	5.3	5.3	5.5	25.8	27.2	28.3	13.3	13.6	14.0
Harrisburg-Lebanon-Carlisle .....	17.3	18.4	20.0	61.4	64.9	67.7	65.4	65.4	66.3
Johnstown .....	4.7	4.7	4.4	19.3	19.8	20.6	12.6	12.9	12.8
Lancaster .....	6.6	7.0	7.3	36.4	38.0	39.6	15.0	15.6	15.9
Philadelphia PMSA .....	163.2	163.1	159.8	607.4	631.8	651.4	298.6	301.5	303.0
Philadelphia City .....	72.8	71.5	70.0	250.3	257.2	259.2	142.8	143.8	142.2
Pittsburgh .....	53.6	52.2	53.6	265.4	279.2	291.7	104.7	105.9	106.8

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Pennsylvania-Continued</b>									
Reading .....	146.8	150.1	154.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	6.5	7.1	7.2
Scranton-Wilkes-Barre .....	289.6	298.9	305.3	0.7	0.6	0.6	12.2	13.6	14.6
Sharon .....	40.3	42.1	43.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	1.3	1.4
State College .....	53.1	55.5	58.8	.3	.4	.4	2.3	2.5	3.0
Williamsport .....	49.7	51.0	51.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	2.0	2.2	2.5
York .....	169.8	177.0	180.0	.4	.5	.5	9.3	9.8	10.7
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	451.9	459.4	461.0	.2	.2	.1	19.6	21.2	20.1
Providence .....	131.2	131.2	132.4	.2	.2	.2	5.4	6.0	5.3
Providence .....	318.2	323.7	327.9	.1	.1	.1	14.3	15.4	15.1
<b>South Carolina</b>									
Charleston .....	1,392.2	1,448.5	1,502.4	1.7	1.8	1.8	86.7	90.7	93.0
Columbia .....	185.8	193.2	196.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	13.4	13.4
Greenville-Spartanburg .....	223.6	232.9	238.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	14.4	14.2
Greenville-Spartanburg .....	308.2	321.9	332.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	22.9	23.2
<b>South Dakota</b>									
Rapid City .....	256.9	266.1	274.9	2.7	2.7	2.7	9.6	9.5	10.1
Sioux Falls .....	34.8	35.2	36.4	.3	.3	3	2.1	1.7	1.8
Sioux Falls .....	65.1	68.6	70.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	2.9	3.1
<b>Tennessee</b>									
Chattanooga .....	2,011.6	2,092.1	2,153.4	6.8	6.6	6.3	95.2	96.7	97.4
Johnson City-Kingsport-Bristol .....	190.3	195.6	195.9	.7	.7	.7	7.9	8.0	7.8
Knoxville .....	159.5	163.7	167.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	7.4	7.6
Memphis .....	251.9	259.7	264.5	1.9	1.7	1.8	12.4	13.6	15.0
Nashville .....	422.0	452.8	459.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	19.6	19.1
Nashville .....	476.7	490.0	493.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	27.5	24.9
<b>Texas</b>									
Abilene .....	6,516.9	6,677.8	6,809.6	181.6	184.3	174.0	345.3	328.8	315.2
Amarillo .....	48.4	48.8	48.4	2.1	1.9	1.5	2.1	1.9	1.6
Austin .....	77.2	77.1	76.7	1.4	1.3	1.3	3.5	3.5	3.4
Beaumont-Port Arthur .....	353.0	355.2	362.7	.8	.7	.7	16.7	14.0	11.4
Brazoria .....	129.9	133.4	135.1	1.6	1.8	1.5	8.0	9.3	9.9
Brownsville-Harlingen .....	57.0	59.2	62.1	1.9	2.2	2.1	5.6	6.8	8.3
Bryan-College Station .....	65.7	68.6	73.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	2.1	2.0
Corpus Christi .....	47.3	50.1	51.8	.6	.6	.5	1.8	1.9	1.6
Dallas .....	124.5	125.7	127.0	4.3	3.9	3.5	7.2	8.0	9.0
El Paso .....	1,310.4	1,328.2	1,347.4	19.0	18.8	17.5	63.5	54.1	47.3
Ft. Worth-Arlington .....	187.7	194.8	202.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	8.9	7.9
Galveston-Texas City .....	533.1	549.0	562.9	3.6	3.5	3.9	25.4	22.6	21.1
Houston .....	71.0	71.9	74.4	.6	.5	.5	4.3	4.7	6.2
Killeen-Temple .....	1,386.8	1,447.9	1,500.8	62.5	65.8	65.5	85.2	88.0	95.1
Laredo .....	69.3	70.6	73.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	3.5	3.3
Longview-Marshall .....	35.7	38.9	42.1	1.9	1.7	1.6	1.2	1.2	1.2
Lubbock .....	64.6	66.4	67.1	3.6	3.6	3.4	3.0	3.4	3.0
McAllen-Edinburg-Mission .....	91.4	93.3	95.0	.4	.4	.3	3.4	3.2	3.1
Midland .....	88.2	93.2	97.9	.9	.9	.9	4.0	4.1	4.2
Odessa .....	43.6	45.3	44.6	9.8	9.9	8.8	1.3	1.4	1.3
San Angelo .....	42.4	43.6	42.6	6.0	5.9	5.1	2.3	2.2	2.0
San Antonio .....	36.4	37.0	36.8	.4	.5	.5	1.8	1.5	1.2
Sherman-Denison .....	499.7	502.6	512.9	2.6	2.4	2.2	29.5	25.1	21.6
Texarkana .....	37.4	37.1	36.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	1.5	1.7
Tyler .....	45.2	45.0	46.5	.1	.1	.1	1.9	1.7	1.6
Victoria .....	61.2	60.7	61.3	1.9	1.9	1.7	2.3	1.9	1.7
Waco .....	26.9	27.4	27.7	1.7	1.5	1.3	1.7	1.5	1.5
Wichita Falls .....	77.3	78.8	80.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	3.5	2.9
Wichita Falls .....	49.8	50.7	50.4	1.9	1.8	1.5	1.7	1.8	1.6

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Pennsylvania-Continued</b>									
Reading .....	47.7	48.1	48.4	6.6	6.6	6.6	32.7	33.2	34.4
Scranton-Wilkes-Barre .....	71.5	71.7	71.0	15.4	16.0	16.0	65.8	69.2	72.7
Sharon .....	9.5	10.8	11.5	1.7	1.9	1.9	10.5	10.4	10.5
State College .....	7.4	7.9	8.1	1.3	1.4	1.6	10.1	10.8	11.5
Williamsport .....	16.3	16.7	16.2	1.8	1.8	1.8	11.1	11.5	11.7
York .....	58.9	61.8	60.9	7.2	7.4	7.4	41.1	42.7	43.5
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	116.3	112.4	108.5	15.6	15.6	15.4	103.3	105.6	107.3
Providence .....	52.8	50.0	49.4	3.5	3.6	3.8	32.1	32.8	33.8
Providence .....	73.4	71.9	69.9	12.1	12.0	11.4	69.8	71.6	73.0
<b>South Carolina</b>									
Charleston .....	374.0	385.0	390.7	59.0	62.3	63.6	308.4	324.2	339.0
Columbia .....	19.8	20.5	20.8	10.0	10.6	10.1	45.9	47.6	49.4
Greenville-Spartanburg .....	28.7	29.1	28.8	10.2	10.8	10.9	49.6	52.1	54.2
Greenville-Spartanburg .....	100.0	103.2	103.9	11.4	12.3	13.1	71.5	74.9	77.5
<b>South Dakota</b>									
Rapid City .....	29.3	31.6	31.7	12.8	13.5	13.4	67.4	69.8	72.9
Sioux Falls .....	3.2	3.3	3.6	1.8	1.9	2.0	10.0	10.4	10.7
Sioux Falls .....	8.4	8.5	8.4	4.8	5.3	5.2	17.8	18.9	19.7
<b>Tennessee</b>									
Chattanooga .....	497.4	511.9	523.7	103.4	109.2	115.1	477.2	495.6	507.6
Johnson City-Kingsport-Bristol .....	46.0	46.6	47.3	9.0	8.6	8.0	43.9	46.6	47.0
Knoxville .....	53.2	52.6	53.9	6.0	6.2	6.2	35.7	37.4	38.4
Memphis .....	50.6	52.7	52.0	9.8	10.2	10.6	63.6	65.8	68.7
Nashville .....	53.6	62.2	61.7	38.8	41.6	46.4	116.3	122.0	124.7
Nashville .....	90.3	90.2	90.0	24.2	25.2	26.8	116.9	119.6	120.4
<b>Texas</b>									
Abilene .....	932.0	962.6	969.5	382.0	389.4	400.7	1,642.6	1,656.4	1,685.5
Amarillo .....	4.6	4.7	4.9	2.5	2.5	2.6	13.4	13.3	13.2
Austin .....	9.8	9.6	8.9	5.7	5.6	5.6	22.3	22.3	22.3
Beaumont-Port Arthur .....	40.1	41.6	44.1	10.9	10.7	11.2	78.2	77.7	78.6
Brazoria .....	25.1	24.9	24.7	9.9	9.7	9.6	31.9	31.8	32.2
Brownsville-Harlingen .....	15.3	15.4	16.0	2.5	2.6	2.5	11.1	11.1	11.4
Bryan-College Station .....	9.7	10.0	10.5	3.1	3.1	3.2	17.5	18.0	19.9
Corpus Christi .....	3.2	3.6	3.6	1.5	1.4	1.3	10.1	11.1	11.6
Dallas .....	11.6	11.7	11.5	7.0	6.7	6.7	31.9	31.8	32.0
El Paso .....	220.8	223.7	223.9	74.1	74.1	77.7	343.6	342.9	347.0
Ft. Worth-Arlington .....	37.5	40.6	41.0	10.4	10.6	10.4	45.7	47.3	51.1
Galveston-Texas City .....	115.8	120.2	119.9	44.4	47.7	51.9	138.0	140.8	144.4
Houston .....	8.5	8.3	8.9	5.3	4.9	4.8	14.2	14.0	13.9
Killeen-Temple .....	146.5	156.5	162.2	98.4	102.3	105.7	349.8	357.4	366.7
Laredo .....	8.0	8.2	8.6	2.7	2.6	2.7	16.1	16.3	16.7
Longview-Marshall .....	1.8	1.8	1.7	4.3	5.0	5.8	10.5	11.9	13.6
Lubbock .....	15.3	15.8	16.1	3.2	3.0	3.3	16.6	17.0	17.0
McAllen-Edinburg-Mission .....	7.1	7.1	7.3	4.9	4.8	5.1	27.1	27.8	27.7
Midland .....	12.4	12.6	13.2	3.0	2.9	3.1	26.7	28.7	30.7
Odessa .....	2.7	2.5	2.4	2.1	2.4	2.3	10.2	10.5	10.7
San Angelo .....	3.8	4.0	4.2	2.1	2.2	1.9	12.4	12.7	12.5
San Antonio .....	5.6	5.5	5.4	3.2	3.2	2.8	9.4	9.3	9.1
Sherman-Denison .....	46.9	47.7	48.5	18.8	19.2	19.5	128.5	127.8	130.1
Texas .....	11.1	11.2	10.9	2.0	1.9	1.6	8.2	8.1	8.0
Tyler .....	7.4	7.4	7.2	1.8	2.0	2.3	10.7	10.5	10.8
Victoria .....	10.9	10.6	10.8	2.8	2.6	2.7	16.6	16.1	16.4
Waco .....	2.9	3.1	3.1	1.4	1.3	1.3	7.7	7.6	7.6
Wichita Falls .....	14.7	14.9	15.4	3.3	3.4	3.4	18.9	18.5	18.5
Wichita Falls .....	8.4	8.4	8.4	2.6	2.6	2.6	11.9	11.8	11.7

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Pennsylvania—Continued</b>									
Reading .....	7.6	8.1	8.8	29.3	30.4	32.0	16.4	16.7	17.2
Scranton-Wilkes-Barre .....	12.9	13.0	13.1	70.0	73.2	75.9	41.2	41.6	41.5
Sharon .....	1.3	1.4	1.3	10.9	11.2	11.6	5.1	5.1	5.0
State College .....	1.6	1.7	1.8	9.5	9.9	10.5	20.7	20.9	21.9
Williamsport .....	2.3	2.4	2.4	9.7	9.9	10.4	6.6	6.6	6.9
York .....	4.9	4.9	5.0	30.0	31.9	33.5	18.1	18.1	18.5
<b>Rhode Island</b>									
Pawtucket-Woonsocket-Attleboro .....	25.6	27.2	27.0	113.1	118.3	123.7	58.2	58.9	58.9
Providence .....	3.6	3.8	3.9	23.5	24.6	26.0	10.1	10.2	10.1
	21.3	22.7	22.2	83.5	86.5	91.9	43.8	43.7	44.4
<b>South Carolina</b>									
Charleston .....	63.4	65.6	68.2	240.9	257.3	275.2	258.0	261.5	270.8
Columbia .....	8.4	8.8	8.7	38.6	40.6	41.8	49.9	51.6	52.7
Greenville-Spartanburg .....	17.9	17.8	18.3	42.7	45.8	47.4	60.5	62.9	65.0
	12.0	12.1	12.3	51.6	56.2	61.5	40.5	40.4	40.8
<b>South Dakota</b>									
Rapid City .....	14.3	14.6	15.7	62.1	64.5	67.1	58.9	60.1	61.3
Sioux Falls .....	1.8	1.6	1.6	8.9	9.1	9.4	6.7	6.9	7.0
	6.2	6.5	7.3	17.9	19.0	19.3	7.4	7.5	7.7
<b>Tennessee</b>									
Chattanooga .....	101.4	103.2	103.6	408.9	440.3	465.2	321.2	328.4	334.3
Johnson City-Kingsport-Bristol .....	12.0	12.5	12.6	37.5	38.6	39.0	33.3	34.1	33.5
Knoxville .....	5.2	5.2	5.4	28.7	30.7	31.5	23.7	24.2	24.6
Memphis .....	9.5	10.0	9.9	53.4	54.8	55.9	50.8	50.8	50.5
Nashville .....	24.2	25.2	25.9	98.9	108.4	107.7	71.1	73.8	74.0
	33.6	33.6	32.3	116.4	126.5	130.3	65.7	67.4	68.6
<b>Texas</b>									
Abilene .....	444.9	439.1	432.5	1,445.9	1,541.9	1,610.0	1,142.7	1,175.5	1,222.2
Amarillo .....	2.6	2.4	2.3	12.9	13.4	13.6	8.2	8.7	8.9
Austin .....	4.5	4.5	4.1	16.2	16.8	17.1	13.8	13.8	14.1
Beaumont-Port Arthur .....	25.2	24.2	23.7	84.5	85.9	90.4	96.6	100.5	102.7
Brazoria .....	5.3	5.2	5.3	28.4	30.5	31.4	19.9	20.2	20.8
Brownsville-Harlingen .....	2.1	1.8	1.8	7.7	8.3	8.8	10.8	11.0	11.4
Bryan-College Station .....	3.5	3.6	3.7	13.5	15.5	17.0	15.9	16.4	17.0
Corpus Christi .....	1.8	1.7	1.7	8.3	8.9	9.0	19.9	20.8	22.4
Dallas .....	6.9	6.8	6.4	28.1	29.2	29.8	27.3	27.7	28.1
El Paso .....	132.5	129.6	129.7	309.4	333.8	348.4	147.2	151.2	156.0
Ft. Worth-Arlington .....	9.3	8.9	8.5	35.5	38.3	41.2	39.9	40.6	42.1
Galveston-Texas City .....	28.0	27.7	27.9	112.4	118.7	122.9	65.5	67.7	71.0
Houston .....	4.2	4.3	4.5	13.4	13.7	13.7	20.7	21.5	22.0
Killeen-Temple .....	102.9	102.1	101.2	356.8	388.4	410.4	184.8	187.5	194.2
Laredo .....	2.9	2.9	3.1	15.0	15.8	17.0	20.9	21.2	21.5
Longview-Marshall .....	1.6	1.7	1.8	5.8	6.4	6.9	8.4	9.1	9.5
Lubbock .....	2.9	2.8	2.7	11.5	12.2	13.0	8.3	8.4	8.7
McAllen-Edinburg-Mission .....	5.5	5.4	5.4	21.9	23.3	23.7	21.4	21.4	22.4
Midland .....	3.6	3.8	4.1	14.2	15.7	16.2	23.5	24.5	25.4
Odessa .....	2.5	2.6	2.4	8.9	9.8	9.6	6.1	6.4	6.9
San Angelo .....	1.6	1.7	1.6	6.8	7.2	7.5	7.4	7.7	7.8
San Antonio .....	1.8	1.7	1.7	7.7	8.4	8.9	6.5	6.8	7.2
Sherman-Denison .....	39.3	39.8	40.9	120.2	125.9	131.8	113.9	114.7	118.3
Texarkana .....	1.7	1.8	1.9	8.1	8.4	8.5	4.5	4.4	4.4
Tyler .....	1.9	1.9	1.8	9.1	9.6	10.3	12.4	12.0	12.5
Victoria .....	3.6	3.4	3.4	14.1	14.6	14.9	9.0	9.6	9.8
Waco .....	1.5	1.6	1.5	5.8	5.9	6.0	4.6	4.8	5.4
Wichita Falls .....	4.8	4.9	5.1	19.9	21.3	22.0	12.2	12.4	12.9
	2.3	2.4	2.3	11.5	12.1	12.5	9.5	9.7	9.8

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Total			Mining			Construction		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Utah</b> .....	640.0	660.0	690.8	8.1	8.1	8.1	26.7	24.9	26.2
Provo-Orem .....	74.5	81.3	86.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	2.7	2.7
Salt Lake City-Ogden .....	445.8	454.6	475.3	2.5	2.7	2.6	18.8	17.5	18.1
<b>Vermont</b> .....	245.6	256.1	261.3	.5	.5	.5	16.5	17.5	18.2
Barre-Montpelier .....	33.5	34.6	34.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	2.4	2.5
Burlington .....	74.5	77.4	80.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	5.0	5.4
<b>Virginia</b> .....	2,680.4	2,772.5	2,863.7	15.9	15.9	15.0	182.9	191.0	195.9
Bristol .....	31.0	32.3	33.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.0	1.0	1.1
Charlottesville .....	65.2	67.7	72.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.7	4.1	4.4
Danville .....	40.4	41.3	42.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	1.8	2.0	2.2
Lynchburg .....	71.2	73.6	76.6	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	3.5	3.7	3.7
Norfolk-Virginia Beach-Newport News .....	553.4	568.0	582.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	39.5	38.1	37.4
Northern Virginia .....	706.3	742.7	775.3	.5	.5	.6	53.0	58.9	63.1
Richmond-Petersburg .....	438.9	454.2	469.5	.6	.9	.8	28.8	30.2	30.6
Roanoke .....	121.1	122.7	125.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	7.7	7.6	7.8
<b>Washington</b> .....	1,851.8	1,943.2	2,045.3	3.0	3.3	3.6	88.9	96.6	106.6
Seattle .....	938.0	991.9	1,054.5	.6	.5	.6	48.1	52.3	57.0
<b>West Virginia</b> .....	599.0	609.8	612.8	36.4	34.6	33.5	24.0	24.3	23.4
Charleston .....	106.2	107.4	108.1	2.2	1.9	1.9	4.2	4.2	4.1
Huntington-Ashland .....	102.6	106.1	109.1	1.3	1.5	1.4	4.2	4.6	5.0
Parkersburg-Marietta .....	59.3	60.5	60.9	.6	.5	.5	2.9	3.1	3.1
Wheeling .....	58.1	59.3	59.8	2.3	2.3	2.1	2.0	2.1	2.1
<b>Wisconsin</b> .....	2,089.6	2,168.5	2,229.7	2.0	2.1	2.3	72.2	76.4	80.8
Appleton-Oshkosh-Neenah .....	144.4	151.6	156.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	7.4	7.0
Eau Claire .....	55.1	57.2	60.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	1.9	1.9
Green Bay .....	93.6	97.0	101.1	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	3.7	4.4
Janesville-Beloit .....	54.4	57.1	58.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	1.6	1.9
Kenosha .....	41.2	42.5	40.0	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	1.6	1.5
La Crosse .....	51.4	53.0	53.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	1.6	1.9
Madison .....	199.7	205.1	212.3	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	7.9	7.9
Milwaukee .....	698.0	722.4	746.4	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	24.6	26.9
Racine .....	70.6	73.8	76.7	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	2.2	2.6
Sheboygan .....	46.8	49.5	51.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	1.6	1.5
Wausau .....	45.8	48.8	52.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	2.0	2.1
<b>Wyoming</b> .....	182.6	189.0	193.5	17.9	18.1	17.1	10.8	10.4	10.1
Casper .....	26.8	27.6	27.6	2.5	2.7	2.3	1.6	1.7	1.5
<b>Puerto Rico</b> .....	770.6	816.1	( <sup>2</sup> )	.8	.8	( <sup>2</sup> )	35.5	41.2	( <sup>2</sup> )
Caguas .....	49.7	52.3	( <sup>2</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Mayaguez .....	55.1	57.6	( <sup>2</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Ponce .....	49.8	52.8	( <sup>2</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
San Juan .....	473.3	502.7	( <sup>2</sup> )	.4	.5	( <sup>2</sup> )	26.5	30.2	( <sup>2</sup> )
<b>Virgin Islands</b> .....	39.6	41.5	41.8	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>2</sup> )	2.3	2.4

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Utah</b> .....	92.1	99.0	102.6	37.8	39.3	41.3	152.8	156.7	166.2
Provo-Orem .....	10.5	13.2	13.4	2.8	2.7	2.7	16.0	17.6	19.6
Salt Lake City-Ogden .....	62.0	64.1	66.5	28.8	30.2	31.4	111.7	112.8	119.3
<b>Vermont</b> .....	49.6	49.7	48.2	10.1	10.6	10.2	56.8	60.3	62.0
Barre-Montpelier .....	4.6	4.9	4.8	.9	.9	.8	7.1	7.4	7.7
Burlington .....	16.5	17.0	16.3	3.0	3.3	3.2	17.7	19.1	20.2
<b>Virginia</b> .....	428.9	427.4	428.1	142.6	145.6	149.1	610.2	633.8	656.9
Bristol .....	10.1	10.9	10.7	1.1	1.2	1.3	7.8	8.1	8.6
Charlottesville .....	8.7	8.9	9.1	2.2	2.4	2.7	13.0	13.5	14.6
Danville .....	17.0	16.6	17.0	1.0	1.0	1.0	8.5	9.0	9.2
Lynchburg .....	23.8	23.4	23.9	2.9	2.7	2.9	14.6	16.4	17.0
Norfolk-Virginia Beach-Newport News .....	67.6	68.0	68.2	26.2	26.7	26.8	136.2	140.0	144.1
Northern Virginia .....	35.5	35.7	35.3	48.9	51.7	53.5	159.6	166.2	174.2
Richmond-Petersburg .....	62.3	63.4	64.7	23.1	23.9	24.3	105.1	109.0	112.0
Roanoke .....	19.9	19.8	19.8	8.9	8.2	7.9	33.5	33.8	33.9
<b>Washington</b> .....	318.4	341.8	361.3	98.5	101.9	107.9	458.2	477.6	500.9
Seattle .....	183.1	197.5	215.0	59.5	61.4	65.9	229.9	242.1	254.3
<b>West Virginia</b> .....	86.2	87.0	87.6	36.4	36.6	36.4	138.9	142.7	145.2
Charleston .....	11.1	10.9	10.7	8.4	8.6	8.9	28.0	28.1	28.7
Huntington-Ashland .....	19.2	19.7	20.4	7.9	8.1	8.1	26.4	26.7	27.5
Parkersburg-Marietta .....	13.8	14.3	14.2	2.1	2.3	2.5	14.6	14.7	15.0
Wheeling .....	6.9	7.3	7.3	3.2	3.3	3.4	15.9	16.2	16.5
<b>Wisconsin</b> .....	528.7	551.5	556.2	95.0	97.5	99.9	494.3	510.3	529.9
Appleton-Oshkosh-Neenah .....	50.5	52.7	54.1	5.1	5.3	5.3	30.9	32.4	34.3
Eau Claire .....	10.4	11.1	11.5	3.2	3.1	3.4	15.5	15.9	16.7
Green Bay .....	24.4	24.5	24.6	6.8	7.3	7.3	24.6	25.2	26.2
Janesville-Beloit .....	17.5	18.5	18.3	2.2	2.2	2.4	13.4	13.9	13.7
Kenosha .....	13.3	14.2	10.6	1.4	1.3	1.3	9.2	9.6	10.2
La Crosse .....	10.8	11.1	10.5	2.3	2.2	2.3	14.2	14.8	14.6
Madison .....	23.2	24.4	24.9	6.9	6.9	6.8	44.9	46.4	48.8
Milwaukee .....	168.6	172.7	173.9	34.5	34.8	36.3	159.6	164.4	172.2
Racine .....	24.8	25.7	26.3	2.3	2.3	2.3	16.3	16.9	18.0
Sheboygan .....	19.3	21.1	21.9	1.4	1.5	1.6	9.0	9.2	9.7
Wausau .....	12.7	13.7	14.9	2.7	2.8	3.0	11.2	12.1	13.3
<b>Wyoming</b> .....	8.2	8.7	8.8	12.9	13.6	14.4	41.9	42.8	44.4
Casper .....	1.3	1.5	1.6	1.8	1.9	1.7	7.7	7.8	7.9
<b>Puerto Rico</b> .....	151.0	154.7	(?)	18.2	17.9	(?)	136.7	145.5	(?)
Caguas .....	15.8	16.4	(?)	(?)	(?)	(?)	9.5	10.8	(?)
Mayaguez .....	19.9	20.3	(?)	(?)	(?)	(?)	7.7	7.9	(?)
Ponce .....	9.5	9.7	(?)	(?)	(?)	(?)	7.8	8.4	(?)
San Juan .....	64.2	65.0	(?)	14.6	14.3	(?)	93.8	100.3	(?)
<b>Virgin Islands</b> .....	2.1	2.4	2.3	2.6	2.5	2.4	9.3	9.6	9.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT  
ANNUAL AVERAGES**

**1. Employees on nonagricultural payrolls in States and selected areas by major industry—Continued**

(In thousands)

State and area	Finance, insurance, and real estate			Services			Government		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Utah</b> .....	33.8	33.3	33.3	147.4	155.9	167.1	141.5	142.7	146.0
Provo-Orem .....	2.4	2.3	2.3	26.8	29.2	32.0	13.4	13.7	14.0
Salt Lake City-Ogden .....	27.6	27.4	27.3	101.1	106.3	114.0	93.1	93.8	96.2
<b>Vermont</b> .....	12.0	12.4	12.9	61.0	64.1	66.9	39.0	40.9	42.4
Barre-Montpelier .....	3.0	3.0	3.1	7.3	7.8	8.0	8.2	8.3	7.7
Burlington .....	3.6	3.7	4.0	18.3	17.9	19.1	11.2	11.5	12.1
<b>Virginia</b> .....	143.6	149.3	152.2	626.1	665.1	703.3	530.3	544.4	563.3
Bristol .....	1.2	1.2	1.2	4.6	4.8	5.0	5.1	5.0	5.2
Charlottesville .....	3.4	3.8	4.5	11.9	12.7	13.4	22.2	22.3	24.4
Danville .....	1.2	1.3	1.3	5.9	6.3	6.4	5.1	5.1	5.4
Lynchburg .....	3.7	3.8	3.7	13.4	14.4	15.9	9.3	9.3	9.5
Norfolk-Virginia Beach-Newport News .....	26.8	26.8	26.5	129.7	138.2	146.6	127.4	130.3	133.2
Northern Virginia .....	46.1	49.3	51.4	223.6	240.1	252.1	139.1	140.3	145.2
Richmond-Petersburg .....	36.7	38.1	39.0	93.0	97.4	103.7	89.4	91.4	94.5
Roanoke .....	8.1	8.5	8.9	27.9	29.4	31.6	15.2	15.3	15.5
<b>Washington</b> .....	107.5	109.4	112.3	420.1	443.9	473.4	357.2	368.8	379.4
Seattle .....	68.0	69.1	71.2	217.8	233.4	251.3	130.9	135.5	139.4
<b>West Virginia</b> .....	24.1	24.3	24.0	124.8	131.1	137.5	128.2	129.3	125.1
Charleston .....	6.0	6.3	6.2	25.2	25.8	27.2	21.1	21.6	20.5
Huntington-Ashland .....	3.9	3.8	3.8	20.2	22.8	24.0	19.6	19.1	19.0
Parkersburg-Marietta .....	2.3	2.3	2.1	13.4	13.7	14.1	9.6	9.7	9.4
Wheeling .....	2.7	2.8	2.9	15.7	15.9	16.4	9.3	9.6	9.2
<b>Wisconsin</b> .....	112.6	115.3	118.1	459.8	487.6	508.5	325.0	327.8	334.0
Appleton-Oshkosh-Neenah .....	7.1	7.2	7.4	27.7	29.8	31.2	16.6	16.9	17.0
Eau Claire .....	1.9	1.8	1.9	11.9	12.7	13.9	10.4	10.7	10.9
Green Bay .....	3.3	3.4	3.9	20.0	22.0	23.7	10.7	10.9	11.0
Janesville-Beloit .....	1.6	1.6	1.6	11.5	12.5	13.3	6.7	6.9	7.4
Kenosha .....	1.1	1.2	1.3	8.5	8.5	8.8	6.2	6.1	6.2
La Crosse .....	1.4	1.6	1.6	13.8	14.7	15.2	7.1	7.0	7.6
Madison .....	17.7	18.3	18.8	43.2	45.6	47.2	56.4	55.6	57.7
Milwaukee .....	48.8	49.7	50.4	181.5	192.7	202.5	81.5	83.2	83.9
Racine .....	2.3	2.3	2.4	14.8	16.3	16.8	8.1	6.1	8.3
Sheboygan .....	2.2	2.4	2.6	7.9	8.6	9.3	5.4	5.2	5.3
Wausau .....	3.4	3.5	3.5	8.1	8.6	9.7	6.0	6.1	6.2
<b>Wyoming</b> .....	7.5	7.4	7.3	32.9	33.9	36.5	50.5	54.1	54.9
Casper .....	1.5	1.4	1.4	5.6	5.8	6.2	4.9	4.9	5.0
<b>Puerto Rico</b> .....	34.9	36.0	( <sup>2</sup> )	112.3	120.5	( <sup>2</sup> )	281.2	299.4	( <sup>2</sup> )
Caguas .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	15.9	16.4	( <sup>2</sup> )
Mayaguez .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	18.5	19.6	( <sup>2</sup> )
Ponce .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	9.5	9.9	( <sup>2</sup> )	16.7	17.4	( <sup>2</sup> )
San Juan .....	28.2	28.6	( <sup>2</sup> )	80.3	87.3	( <sup>2</sup> )	165.3	176.7	( <sup>2</sup> )
<b>Virgin Islands</b> .....	1.8	2.0	2.0	9.0	9.5	9.3	12.8	13.2	13.5

<sup>1</sup> Combined with construction.  
<sup>2</sup> Not available.

NOTE: Area definitions are published annually in the May issue of this publication.  
All State and area data have been adjusted to March 1989 benchmarks.

**ESTABLISHMENT DATA  
STATE AND AREA HOURS AND EARNINGS  
ANNUAL AVERAGES**

**2. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Alabama</b> .....	41.4	41.4	41.2	\$8.76	\$8.95	\$9.11	\$362.66	\$370.53	\$375.33
Birmingham .....	41.1	41.5	40.9	8.99	9.11	9.48	369.49	378.07	387.73
Mobile .....	41.5	39.9	41.6	10.18	10.37	11.01	422.47	413.76	458.02
<b>Alaska</b> .....	42.7	42.1	44.4	11.79	11.98	12.01	503.43	504.36	533.24
<b>Arizona</b> .....	40.6	41.1	41.2	9.97	9.85	9.93	404.78	404.84	409.12
<b>Arkansas</b> .....	41.0	40.9	40.8	7.88	8.07	8.26	323.08	330.06	337.01
Fayetteville-Springdale .....	41.0	41.0	40.9	7.10	7.20	7.42	291.10	295.20	303.48
Fort Smith .....	40.7	40.9	39.7	8.47	8.66	8.70	344.73	354.19	345.39
Little Rock-North Little Rock .....	41.4	41.1	41.4	8.55	8.52	8.86	353.97	350.17	366.80
Pine Bluff .....	43.1	43.3	43.9	10.69	10.61	10.28	460.74	459.41	451.29
<b>California</b> .....	40.3	40.7	40.7	10.75	10.80	11.16	433.23	439.56	454.21
Anaheim-Santa Ana .....	( <sup>1</sup> )	41.1	41.6	( <sup>1</sup> )	11.05	11.36	( <sup>1</sup> )	454.16	472.58
Bakersfield .....	( <sup>1</sup> )	39.6	39.6	( <sup>1</sup> )	11.73	12.08	( <sup>1</sup> )	464.51	478.37
Fresno .....	( <sup>1</sup> )	39.5	39.3	( <sup>1</sup> )	9.40	9.22	( <sup>1</sup> )	371.30	362.35
Los Angeles-Long Beach .....	( <sup>1</sup> )	41.1	40.9	( <sup>1</sup> )	10.33	10.62	( <sup>1</sup> )	424.56	434.36
Modesto .....	( <sup>1</sup> )	40.5	40.3	( <sup>1</sup> )	10.23	10.35	( <sup>1</sup> )	414.32	417.11
Oakland .....	( <sup>1</sup> )	40.5	41.2	( <sup>1</sup> )	13.02	13.31	( <sup>1</sup> )	527.31	548.37
Oxnard-Ventura .....	( <sup>1</sup> )	40.7	40.8	( <sup>1</sup> )	10.28	10.61	( <sup>1</sup> )	418.40	432.89
Riverside-San Bernardino .....	( <sup>1</sup> )	40.2	40.2	( <sup>1</sup> )	9.66	9.99	( <sup>1</sup> )	388.33	401.60
Sacramento .....	( <sup>1</sup> )	39.8	39.8	( <sup>1</sup> )	10.84	11.51	( <sup>1</sup> )	431.43	458.10
San Diego .....	( <sup>1</sup> )	40.7	41.0	( <sup>1</sup> )	10.99	11.24	( <sup>1</sup> )	447.29	460.84
San Francisco .....	( <sup>1</sup> )	38.2	38.2	( <sup>1</sup> )	12.94	13.02	( <sup>1</sup> )	494.31	497.36
San Jose .....	( <sup>1</sup> )	40.3	40.4	( <sup>1</sup> )	12.64	13.20	( <sup>1</sup> )	509.39	533.28
Santa Barbara-Santa Maria-Lompoc .....	( <sup>1</sup> )	39.9	39.7	( <sup>1</sup> )	10.91	11.26	( <sup>1</sup> )	435.31	447.02
Santa Rosa-Petaluma .....	( <sup>1</sup> )	38.4	38.0	( <sup>1</sup> )	10.04	10.66	( <sup>1</sup> )	385.54	405.08
Stockton .....	( <sup>1</sup> )	40.5	41.3	( <sup>1</sup> )	10.42	10.97	( <sup>1</sup> )	422.01	453.06
Vallejo-Fairfield-Napa .....	( <sup>1</sup> )	40.7	41.6	( <sup>1</sup> )	13.00	13.20	( <sup>1</sup> )	529.10	549.12
<b>Colorado</b> .....	40.2	40.4	40.2	10.05	10.38	10.45	404.01	419.35	420.09
Denver .....	39.5	40.7	40.1	10.57	11.60	11.62	417.52	472.12	465.96
<b>Connecticut</b> .....	42.1	42.2	42.2	10.46	10.78	11.20	440.37	454.92	472.64
Bridgeport-Milford .....	41.8	41.6	42.0	10.86	11.25	11.62	453.95	468.00	488.04
Hartford .....	42.1	42.5	42.7	10.88	11.10	11.80	449.83	471.75	503.86
New Britain .....	43.3	42.6	42.4	10.75	11.29	11.75	465.48	480.95	498.20
New Haven-Meriden .....	40.7	41.1	41.0	10.08	10.31	10.83	410.26	423.74	444.03
Stamford .....	40.9	41.7	42.4	11.32	11.36	11.59	482.99	473.71	491.42
Waterbury .....	42.7	42.9	42.3	8.99	9.58	10.09	383.87	410.98	426.81
<b>Delaware</b> .....	40.7	40.0	41.5	10.67	11.49	12.34	434.27	459.60	512.11
Wilmington .....	41.4	41.5	42.8	12.69	14.21	15.08	525.37	589.72	644.57
<b>District of Columbia:</b>									
Washington MSA .....	39.2	39.5	39.5	10.73	11.10	11.80	420.62	438.45	466.10
<b>Florida</b> .....	40.8	40.7	40.9	8.16	8.39	8.67	332.93	341.47	354.60
Fort Lauderdale-Hollywood-Pompano Beach .....	42.3	41.2	41.6	8.03	8.32	8.58	339.67	342.78	356.93
Jacksonville .....	41.2	41.0	41.3	8.80	9.07	9.23	362.56	371.87	381.20
Miami-Hialeah .....	38.9	40.1	39.7	7.06	7.07	7.25	274.63	283.51	287.83
Orlando .....	40.7	40.5	41.1	8.58	9.08	9.83	349.21	367.74	404.01
Pensacola .....	42.4	43.2	43.6	10.60	10.99	11.17	449.44	474.77	487.01
Tampa-St. Petersburg-Clearwater .....	40.1	40.4	40.7	7.60	8.47	8.60	304.76	342.19	358.16
West Palm Beach-Boca Raton-Deeray Beach .....	41.6	41.3	41.9	9.13	9.15	9.47	379.81	377.90	396.79
<b>Georgia</b> .....	41.6	41.4	41.1	8.49	8.65	8.84	353.18	358.11	363.32
Atlanta .....	41.6	40.9	41.1	10.07	10.26	10.10	418.91	419.63	415.11
Savannah .....	45.6	44.1	44.2	10.94	11.68	11.60	496.86	515.09	512.72
<b>Hawaii</b> .....	39.4	40.0	40.0	9.30	9.84	10.37	366.42	393.60	414.80
Honolulu .....	39.2	40.0	39.8	9.49	10.01	10.52	372.01	400.40	418.70
<b>Idaho</b> .....	38.1	38.1	38.9	9.75	10.00	10.21	371.48	381.00	397.16

See footnotes at end of table.



**ESTABLISHMENT DATA**  
**STATE AND AREA HOURS AND EARNINGS**  
**ANNUAL AVERAGES**

**2. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Illinois</b> .....	41.6	42.3	41.9	\$10.85	\$10.88	\$11.22	\$451.36	\$464.45	\$470.12
Aurora-Elgin .....	42.1	41.6	41.3	10.49	10.53	10.68	441.63	438.05	441.08
Bloomington-Normal .....	40.6	39.0	41.8	10.79	10.78	12.13	438.07	420.42	507.03
Champaign-Urbana-Rantoul .....	40.5	40.6	39.5	9.32	9.31	9.69	377.46	377.99	382.76
Chicago .....	42.0	42.4	42.2	10.60	10.71	10.92	445.20	454.10	460.82
Davenport-Rock Island-Moline .....	40.4	42.5	41.4	12.76	12.69	12.82	515.50	539.33	530.75
Decatur .....	41.6	43.7	44.8	14.02	13.93	14.38	583.23	608.74	644.22
Joliet .....	41.3	42.1	41.4	11.72	12.13	12.36	484.04	510.67	511.70
Kankakee .....	39.5	41.3	41.2	9.92	11.08	11.63	391.84	457.60	479.16
Lake County .....	40.0	40.6	40.4	10.97	10.90	11.45	438.80	442.54	462.58
Peoria .....	43.7	44.8	43.0	13.10	12.80	13.36	572.47	573.44	574.48
Rockford .....	41.8	42.9	42.8	11.18	11.93	12.15	467.32	511.80	520.02
Springfield .....	42.2	41.4	38.8	11.72	10.96	10.22	494.58	453.74	396.54
<b>Indiana</b> .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Iowa</b> .....	41.3	41.4	40.8	10.62	10.56	10.83	438.61	437.18	441.86
Cedar Rapids .....	40.3	40.1	39.4	11.85	12.11	12.50	477.56	485.61	492.50
Des Moines .....	42.0	41.8	41.9	11.80	11.78	12.12	495.60	492.40	507.83
Dubuque .....	42.4	41.1	39.9	12.13	11.39	11.52	518.55	468.13	459.65
Sioux City .....	39.4	39.7	40.5	8.42	8.46	8.60	331.75	335.86	348.30
<b>Kansas</b> .....	40.8	40.7	40.2	9.97	10.24	10.67	406.78	416.77	428.93
Topeka .....	42.3	41.9	41.1	11.38	11.96	12.28	481.37	501.12	504.71
Wichita .....	39.9	41.3	39.9	10.81	10.99	11.35	431.32	453.89	452.87
<b>Kentucky</b> .....	40.5	40.5	40.0	10.02	10.16	10.37	405.81	411.48	414.80
Lexington-Fayette .....	39.7	40.8	40.8	10.44	9.96	10.57	414.47	406.37	431.26
Louisville .....	41.9	41.8	40.6	11.45	11.79	11.80	479.76	492.82	479.08
<b>Louisiana</b> .....	41.8	42.5	42.6	10.90	10.94	11.13	455.62	464.95	474.14
Baton Rouge .....	43.1	42.8	44.1	12.18	12.83	13.10	524.96	549.12	577.71
New Orleans .....	40.2	41.1	41.2	10.64	10.48	10.76	427.73	430.73	443.31
Shreveport .....	40.4	38.9	40.9	11.67	10.05	11.09	471.47	390.95	453.58
<b>Maine</b> .....	41.5	41.0	40.2	8.77	9.31	9.92	363.96	381.71	398.78
Lewiston-Auburn .....	40.2	39.2	39.2	7.40	8.08	8.50	297.48	316.74	333.20
Portland .....	40.6	41.1	39.5	9.13	9.58	10.53	370.68	393.74	415.94
<b>Maryland</b> .....	40.8	41.5	41.1	10.11	10.71	11.20	412.49	444.47	460.32
Baltimore MSA .....	41.9	41.6	41.2	10.89	11.07	11.58	456.29	460.51	477.10
<b>Massachusetts</b> .....	41.0	40.7	40.7	9.77	10.40	10.87	400.57	423.28	442.41
Boston .....	40.6	41.0	40.7	10.66	11.10	11.64	432.80	455.10	473.75
Springfield .....	42.3	42.2	41.8	9.21	10.04	10.38	389.58	423.69	433.88
Worcester .....	40.7	41.0	41.1	9.86	10.26	10.72	401.30	420.66	440.59
<b>Michigan</b> .....	42.2	43.3	42.9	12.97	13.31	13.51	547.33	576.32	579.58
Ann Arbor .....	44.8	44.8	44.0	14.02	14.52	14.47	628.10	650.50	636.68
Battle Creek .....	43.2	43.9	43.6	13.70	14.65	14.53	591.84	643.13	633.51
Detroit .....	43.4	44.3	43.7	13.87	14.35	14.58	601.96	635.70	637.15
Flint .....	41.8	44.0	42.9	15.26	16.45	16.89	637.87	723.80	724.58
Grand Rapids .....	40.1	41.8	41.3	11.06	11.55	11.61	443.51	482.79	479.49
Jackson .....	41.6	42.5	42.2	9.95	9.91	10.56	413.92	421.17	445.63
Kalamazoo .....	43.0	42.4	42.1	12.10	12.60	13.05	520.30	534.24	549.40
Lansing-East Lansing .....	41.8	42.5	41.5	13.86	14.53	14.70	579.35	617.52	610.05
Muskegon .....	40.9	41.0	40.7	11.85	11.91	12.31	484.66	488.31	501.02
Saginaw-Bay City-Midland .....	42.7	44.0	43.6	14.48	15.20	15.40	618.30	668.80	671.44
<b>Minnesota</b> .....	40.9	40.8	40.5	10.37	10.59	10.96	424.13	432.07	443.88
Duluth .....	38.1	39.1	39.3	10.83	11.51	11.69	412.62	450.04	459.42
Minneapolis-St. Paul .....	40.8	40.9	40.8	11.15	11.10	11.52	454.92	453.99	467.71
St. Cloud .....	39.0	40.2	39.5	9.43	10.38	10.20	367.77	417.28	402.90
<b>Mississippi</b> .....	40.3	40.3	40.0	7.59	7.83	8.03	305.88	315.55	321.20
Jackson .....	40.2	40.7	40.1	8.55	8.80	9.07	343.71	358.16	363.71

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA HOURS AND EARNINGS  
ANNUAL AVERAGES**

**2. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Missouri</b> .....	40.6	40.8	40.7	\$10.00	\$10.24	\$10.49	\$406.00	\$417.79	\$426.94
Kansas City .....	40.4	41.1	41.4	11.14	11.40	11.60	450.06	468.54	480.24
St. Louis .....	41.3	41.2	41.8	11.63	12.03	12.42	480.32	495.64	519.16
Springfield .....	39.8	39.9	40.3	8.58	8.67	9.00	341.48	345.93	362.70
<b>Montana</b> .....	38.6	38.7	39.2	10.61	10.68	11.15	409.55	413.32	437.08
<b>Nebraska</b> .....	40.5	41.1	40.8	9.33	9.38	9.55	377.87	385.52	389.64
Lincoln .....	40.7	41.2	39.8	9.90	10.47	10.55	402.93	431.36	419.89
Omaha .....	40.5	41.5	41.4	9.98	10.33	10.34	404.19	428.70	428.08
<b>Nevada</b> .....	40.3	39.7	40.9	9.76	10.08	10.33	393.33	400.18	422.50
Las Vegas .....	40.2	40.2	42.5	12.16	12.60	12.87	488.83	506.52	546.98
<b>New Hampshire</b> .....	41.2	40.7	41.2	9.29	9.97	10.36	382.75	405.78	426.83
Manchester .....	40.4	40.4	41.0	9.41	9.97	10.42	380.16	402.79	427.22
Nashua .....	41.4	41.0	40.8	11.26	12.20	12.65	466.16	500.20	516.12
Portsmouth-Dover-Rochester .....	40.1	41.2	41.3	9.23	9.12	9.61	370.12	375.74	396.89
<b>New Jersey</b> .....	41.2	41.0	41.0	10.40	10.86	11.17	428.48	445.26	457.97
<b>New Mexico</b> .....	39.7	40.5	40.0	8.74	8.87	8.72	346.98	359.24	348.80
Albuquerque .....	39.9	39.9	39.7	9.07	8.85	8.73	361.89	353.12	346.58
<b>New York</b> .....	39.9	39.9	40.0	10.09	10.43	10.67	402.59	416.16	426.80
Albany-Schenectady-Troy .....	39.9	40.8	40.9	10.56	11.06	11.34	421.34	451.25	463.81
Binghamton .....	40.4	41.1	41.2	9.22	9.33	9.42	372.49	383.46	388.10
Buffalo .....	41.7	43.4	41.9	11.98	12.29	12.91	499.57	533.39	540.93
Elmira .....	41.2	41.5	41.0	9.54	9.50	9.45	393.05	394.25	387.45
Glens Falls .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Nassau-Suffolk .....	40.2	39.5	39.7	10.69	11.13	11.43	429.74	439.64	453.77
New York PMSA .....	37.4	37.2	37.3	9.51	9.81	9.91	355.67	364.93	369.64
New York City .....	37.1	37.0	36.9	9.36	9.41	9.77	347.26	348.17	360.51
Niagara Falls .....	41.2	42.3	41.4	12.88	13.47	13.90	530.66	569.78	575.46
Orange County .....	38.6	38.9	39.1	7.97	8.25	9.11	307.64	320.93	356.20
Poughkeepsie .....	41.8	41.2	40.2	9.40	9.94	10.75	392.92	409.53	432.15
Rochester .....	41.8	43.1	42.8	11.97	12.41	12.20	500.35	534.87	522.16
Rockland County .....	39.5	36.3	38.9	10.31	11.25	8.75	407.25	408.38	340.38
Syracuse .....	41.3	41.9	41.0	11.22	12.29	12.06	463.39	514.95	494.46
Utica-Rome .....	41.8	41.5	40.8	9.56	9.71	9.96	399.61	402.97	406.37
Westchester County .....	39.6	40.1	40.7	10.40	11.33	11.47	411.84	454.33	466.83
<b>North Carolina</b> .....	41.2	40.5	40.3	7.84	8.12	8.41	323.01	328.86	338.92
Asheville .....	42.0	41.3	41.2	7.88	8.23	8.44	330.96	339.90	347.73
Charlotte-Gastonia-Rock Hill .....	42.1	40.5	40.7	8.08	8.44	8.92	340.17	341.82	363.04
Greensboro-Winston-Salem-High Point .....	40.7	39.8	39.3	8.65	9.03	9.13	352.06	359.39	358.81
Raleigh-Durham .....	41.9	41.6	41.3	8.93	9.20	9.51	374.17	382.72	392.76
<b>North Dakota</b> .....	38.7	38.7	39.8	8.43	8.36	8.79	326.24	323.53	349.84
Fargo-Moorhead .....	37.6	38.4	39.7	8.50	8.64	9.07	319.60	331.78	360.08
<b>Ohio</b> .....	42.6	43.0	42.7	11.73	12.00	12.26	499.70	515.00	523.50
Akron .....	43.1	43.2	42.7	11.30	11.49	11.61	487.03	496.37	495.75
Canton .....	41.9	42.9	41.8	11.34	11.41	11.17	475.15	489.49	466.91
Cincinnati .....	42.7	42.5	42.9	10.95	11.15	11.60	467.57	473.88	497.64
Cleveland .....	42.9	43.3	43.1	11.57	11.84	11.83	496.35	512.67	509.87
Columbus .....	41.5	41.5	41.7	11.41	11.57	12.01	473.52	480.16	500.82
Dayton-Springfield .....	42.0	43.4	42.9	11.89	12.59	12.95	499.38	546.41	555.56
Toledo .....	42.5	43.4	43.5	12.72	13.12	13.26	540.60	569.41	576.81
Youngstown-Warren .....	42.7	42.6	42.8	13.30	13.52	14.01	567.91	575.95	599.63
<b>Oklahoma</b> .....	41.2	41.1	41.6	10.14	10.35	10.44	417.77	425.39	434.30
Oklahoma City .....	40.5	41.5	42.9	11.18	11.50	11.47	452.79	477.25	492.06
Tulsa .....	41.3	41.6	41.6	10.66	10.80	10.21	440.26	449.28	424.74
<b>Oregon</b> .....	39.2	39.3	39.4	10.56	10.60	10.80	413.95	416.58	425.52
Eugene-Springfield .....	39.5	39.9	39.4	10.66	10.61	10.77	421.07	423.34	424.34
Portland .....	39.4	39.6	39.6	10.80	10.74	10.89	425.52	425.30	431.24
Salem .....	38.0	38.1	38.4	8.98	8.96	9.21	341.24	341.38	353.66

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA HOURS AND EARNINGS  
ANNUAL AVERAGES**

**2. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Pennsylvania</b> .....	40.9	41.1	40.9	\$9.98	\$10.33	\$10.66	\$408.18	\$424.56	\$435.99
Allentown-Bethlehem .....	39.8	40.3	40.0	10.53	10.36	10.61	419.09	417.51	424.40
Altoona .....	39.4	40.5	39.8	8.64	8.86	9.39	340.42	358.83	373.72
Beaver County .....	41.5	43.8	43.6	11.06	10.34	10.68	458.99	452.83	465.65
Erie .....	42.0	42.2	43.1	10.28	10.92	11.30	431.76	460.82	487.03
Harrisburg-Lebanon-Carlisle .....	39.9	40.6	41.1	9.35	10.41	10.75	373.07	422.65	441.83
Johnstown .....	39.1	39.4	39.0	8.41	8.00	8.14	328.83	315.20	317.46
Lancaster .....	40.3	40.6	40.6	9.70	10.24	10.65	390.91	415.74	432.39
Philadelphia PMSA .....	40.7	40.6	40.6	10.85	11.28	11.71	441.60	457.97	475.43
Pittsburgh .....	41.9	42.0	41.9	11.18	11.15	11.15	468.44	468.30	467.19
Reading .....	41.2	40.9	41.0	10.18	10.78	11.09	419.42	440.90	454.69
Scranton-Wilkes-Barre .....	38.9	39.5	39.1	8.75	8.87	9.24	340.38	350.37	361.28
Sharon .....	( <sup>1</sup> )	42.8	42.2	( <sup>1</sup> )	11.83	11.81	( <sup>1</sup> )	506.32	498.38
State College .....	( <sup>1</sup> )	39.4	39.8	( <sup>1</sup> )	8.84	9.29	( <sup>1</sup> )	348.30	369.74
Williamsport .....	41.5	40.2	40.4	8.54	9.12	9.49	354.41	366.62	383.40
York .....	42.6	42.5	41.9	9.42	9.84	10.17	401.29	418.20	426.12
<b>Rhode Island</b> .....	40.0	39.7	39.3	8.20	8.64	9.07	328.00	343.01	356.45
Pawtucket-Woonsocket-Attleboro .....	40.5	40.1	39.9	7.73	8.06	8.46	313.07	323.21	337.55
Providence .....	39.8	39.3	39.1	8.22	8.63	8.60	327.16	339.16	336.26
<b>South Carolina</b> .....	41.7	41.1	41.3	8.10	8.30	8.51	337.77	341.13	351.46
Charleston .....	42.0	39.2	39.8	9.11	8.98	9.26	382.62	352.02	368.55
Columbia .....	41.1	41.1	41.4	7.92	8.47	8.70	325.51	348.12	360.18
Greenville-Spartanburg .....	41.7	40.7	41.1	8.00	8.13	8.34	333.60	330.89	342.77
<b>South Dakota</b> .....	41.7	42.5	41.9	7.92	8.09	8.28	330.26	343.83	346.93
Sioux Falls .....	43.9	44.4	45.9	7.94	8.05	8.34	348.57	357.42	382.81
<b>Tennessee</b> .....	41.6	41.6	40.8	8.78	8.96	9.22	365.25	372.74	376.18
Chattanooga .....	42.4	43.0	40.4	7.90	8.10	8.37	334.96	348.30	338.15
Johnson City-Kingsport-Bristol .....	43.8	43.9	42.3	9.21	9.44	9.67	403.40	414.42	409.04
Knoxville .....	40.7	40.8	39.3	9.08	8.99	9.27	369.56	366.79	364.31
Memphis .....	42.9	42.6	42.2	8.84	9.09	9.46	379.24	387.23	399.21
Nashville .....	42.4	41.6	41.6	10.23	10.45	10.61	433.75	434.72	441.38
<b>Texas</b> .....	41.6	41.7	41.8	9.85	9.97	10.25	409.76	415.75	428.45
Dallas .....	41.5	41.6	42.4	9.76	9.86	10.41	405.04	410.18	441.38
Ft. Worth-Arlington .....	41.1	41.4	41.1	9.89	10.63	11.00	406.48	440.08	452.10
Houston .....	43.6	43.8	44.0	11.25	11.36	11.73	490.50	497.57	516.12
San Antonio .....	40.2	39.9	40.3	7.62	7.52	7.52	306.32	300.05	303.06
<b>Utah</b> .....	39.5	40.3	40.0	9.96	10.11	10.14	393.42	407.43	405.60
Salt Lake City-Ogden .....	40.3	40.2	40.2	9.94	9.91	9.94	400.58	398.38	399.59
<b>Vermont</b> .....	40.6	40.4	41.0	9.12	9.47	9.94	370.27	382.59	407.54
Burlington .....	41.0	41.2	41.2	9.98	9.72	10.23	409.18	400.46	421.48
<b>Virginia</b> .....	41.1	40.8	40.9	9.14	9.37	9.69	375.65	382.30	396.32
Bristol .....	41.9	42.0	40.7	7.80	7.77	7.90	326.82	326.34	321.53
Charlottesville .....	41.2	41.6	41.8	7.43	7.93	8.32	306.12	329.89	347.78
Danville .....	42.6	42.1	41.9	8.27	9.10	9.42	352.30	383.11	394.70
Lynchburg .....	41.8	41.5	41.8	8.62	9.29	9.48	360.32	385.54	396.26
Northern Virginia .....	39.4	39.1	39.6	9.84	10.35	10.70	387.70	404.69	423.72
Richmond-Petersburg .....	41.4	41.4	41.9	11.77	11.92	12.63	487.28	493.49	529.20
Roanoke .....	41.5	41.9	41.1	8.86	10.65	11.29	367.69	446.24	464.02
<b>Washington</b> .....	39.9	40.1	39.4	11.73	11.90	12.14	468.03	477.19	478.32
<b>West Virginia</b> .....	40.6	40.6	40.7	10.55	10.81	11.16	428.33	438.89	454.21
Charleston .....	42.3	42.7	43.2	13.01	13.28	13.60	550.32	567.06	587.52
Huntington-Ashland .....	39.7	41.0	41.0	12.05	12.85	12.81	478.39	526.85	525.21
Parkersburg-Marietta .....	41.8	41.9	42.4	12.21	12.68	13.02	510.38	531.29	552.05
Wheeling .....	41.2	42.0	42.3	12.02	13.26	13.44	495.22	556.92	568.51

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA HOURS AND EARNINGS  
ANNUAL AVERAGES**

**2. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued**

State and area	Average weekly hours			Average hourly earnings			Average weekly earnings		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
<b>Wisconsin</b> .....	41.4	41.8	41.5	\$10.55	\$10.61	\$10.76	\$436.77	\$443.50	\$446.54
Appleton-Oshkosh .....	42.7	43.1	43.2	10.83	11.26	11.70	462.44	485.31	505.44
Eau Claire .....	40.9	40.9	42.6	10.76	11.08	10.95	440.08	453.17	466.47
Green Bay .....	41.6	41.6	41.6	11.30	11.22	11.38	470.08	466.75	473.41
Janesville-Beloit .....	38.4	42.1	41.2	12.18	12.67	12.96	467.71	533.41	533.95
Kenosha .....	40.6	41.7	41.0	12.32	13.02	11.93	500.19	542.93	489.13
La Crosse .....	39.9	39.8	40.2	9.14	9.08	9.48	364.69	361.38	381.10
Madison .....	40.7	40.7	40.9	9.86	9.97	10.04	401.30	405.78	410.64
Milwaukee .....	41.5	41.7	41.6	11.72	11.51	11.62	486.38	479.97	483.39
Racine .....	40.9	40.4	39.8	11.06	10.63	10.90	452.35	429.45	433.82
Sheboygan .....	41.7	43.0	42.3	9.59	9.74	10.45	399.90	418.82	442.04
Wausau .....	42.7	42.6	42.3	9.94	10.10	10.40	424.44	430.26	439.92
<b>Wyoming</b> .....	38.8	38.5	39.8	9.75	10.27	10.58	378.30	395.40	421.08
<b>Puerto Rico</b> .....	38.9	39.1	( <sup>1</sup> )	5.43	5.54	( <sup>1</sup> )	211.23	216.61	( <sup>1</sup> )
<b>Virgin Islands</b> .....	42.2	40.4	41.7	9.40	9.86	10.86	396.68	398.34	453.70

<sup>1</sup> Not available.

NOTE: Area definitions are published annually in the May issue of this

publication. All State and area data have been adjusted to March 1989 benchmarks.

**STATE AND AREA LABOR FORCE DATA  
ANNUAL AVERAGES**

**3. Labor force status by State and selected metropolitan areas**

(Numbers in thousands)

State and area	Civilian labor force		Unemployed			
			Number		Percent of labor force	
	1988	1989	1988	1989	1988	1989
<b>Alabama</b> .....	1,873.0	1,907.0	135.0	134.0	7.2	7.0
Birmingham .....	436.2	443.2	26.1	25.3	6.0	5.7
Huntsville .....	131.1	133.3	6.7	6.7	5.1	5.0
Mobile .....	209.8	211.6	18.7	17.9	8.9	8.5
Montgomery .....	136.1	139.2	8.4	8.7	6.2	6.2
Tuscaloosa .....	69.6	71.6	3.8	3.7	5.4	5.1
<b>Alaska</b> .....	250.0	253.0	23.0	17.0	9.3	6.7
<b>Arizona</b> .....	1,660.0	1,707.0	104.0	89.0	6.3	5.2
Phoenix .....	1,031.5	1,060.7	52.5	45.4	5.1	4.3
Tucson .....	313.8	316.0	16.1	14.1	5.1	4.5
<b>Arkansas</b> .....	1,109.0	1,135.0	85.0	82.0	7.7	7.2
Fayetteville-Springdale .....	61.3	63.4	2.6	2.4	4.2	3.7
Fort Smith .....	92.7	93.8	6.2	7.4	6.7	7.8
Little Rock-North Little Rock .....	262.4	269.5	16.9	16.9	6.4	6.3
Pine Bluff .....	37.1	37.6	3.1	2.9	8.3	7.8
<b>California</b> .....	14,133.0	14,518.0	748.0	737.0	5.3	5.1
Anaheim-Santa Ana .....	1,369.9	1,420.5	41.2	41.5	3.0	2.9
Bakersfield .....	235.0	235.5	23.4	24.7	9.9	10.5
Fresno .....	307.0	312.1	32.8	31.3	10.7	10.0
Los Angeles-Long Beach .....	4,163.8	4,231.1	203.6	196.8	4.9	4.7
Modesto .....	157.2	162.3	18.9	18.3	12.0	11.3
Oakland .....	1,078.7	1,117.9	49.6	46.9	4.6	4.2
Oxnard-Ventura .....	357.2	368.8	18.9	19.0	5.3	5.1
Riverside-San Bernardino .....	956.8	1,018.5	55.5	58.5	5.8	5.7
Sacramento .....	707.0	731.4	37.9	36.0	5.4	4.9
San Diego .....	1,126.5	1,173.4	48.2	46.2	4.3	3.9
San Francisco .....	875.9	889.3	31.5	29.2	3.6	3.3
San Jose .....	838.7	846.8	33.2	32.3	4.0	3.8
Santa Barbara-Santa Maria-Lompoc .....	179.1	182.5	8.0	7.6	4.4	4.2
Santa Rosa-Petaluma .....	197.4	203.1	9.3	8.8	4.7	4.3
Stockton .....	197.7	199.9	19.1	18.8	9.7	9.4
Vallejo-Fairfield-Napa .....	190.5	196.0	10.6	10.3	5.8	5.3
<b>Colorado</b> .....	1,708.0	1,695.0	110.0	98.0	6.4	5.8
Boulder-Longmont .....	133.3	134.5	6.4	6.0	4.8	4.4
Denver .....	880.7	870.9	52.6	46.7	6.0	5.4
<b>Connecticut</b> .....	1,739.0	1,761.0	52.0	64.0	3.0	3.7
Bridgeport-Milford .....	230.1	229.8	8.6	10.8	3.7	4.7
Hartford .....	420.8	428.2	11.6	13.9	2.8	3.3
New Britain .....	72.5	73.8	2.3	3.0	3.2	4.1
New Haven-Meriden .....	273.0	276.4	7.8	9.7	2.9	3.5
Stamford .....	114.6	115.0	2.3	2.8	2.0	2.4
Waterbury .....	100.7	102.3	3.8	4.8	3.8	4.7
<b>Delaware</b> .....	349.0	362.0	11.0	13.0	3.2	3.5
Wilmington .....	302.2	313.3	11.1	12.0	3.7	3.8
<b>District of Columbia</b> .....	332.0	315.0	16.0	16.0	5.0	5.0
Washington .....	2,184.7	2,216.1	63.6	59.5	2.9	2.7
<b>Florida</b> .....	6,081.0	6,193.0	304.0	348.0	5.0	5.6
Daytona Beach .....	151.9	155.0	6.6	8.4	4.5	5.4
Fort Lauderdale-Hollywood-Pompano Beach .....	637.3	648.8	26.3	33.0	4.1	5.1
Fort Myers-Cape Coral .....	139.6	146.6	5.0	5.7	3.6	3.9
Gainesville .....	106.0	106.1	3.3	3.4	3.1	3.2
Jacksonville .....	453.6	451.9	24.1	25.9	5.3	5.7
Lakeland-Winter Haven .....	177.7	179.3	14.3	15.2	8.0	8.5
Melbourne-Titusville-Palm Bay .....	184.3	187.8	8.6	9.8	4.6	5.2
Miami-Hialeah .....	934.8	944.6	50.0	60.2	5.4	6.4
Orlando .....	582.5	607.6	26.4	30.8	4.5	5.1
Pensacola .....	148.3	147.5	9.1	9.5	6.1	6.5
Sarasota .....	121.1	122.5	4.1	4.6	3.4	3.7
Tallahassee .....	128.1	132.3	4.8	5.6	3.7	4.2
Tampa-St. Petersburg-Clearwater .....	989.2	996.3	45.5	49.8	4.6	5.0
West Palm Beach-Boca Raton-Delray Beach .....	408.0	420.4	20.5	25.2	5.0	6.0

See footnotes at end of table.

**STATE AND AREA LABOR FORCE DATA  
ANNUAL AVERAGES**

**3. Labor force status by State and selected metropolitan areas—Continued**

(Numbers in thousands)

State and area	Civilian labor force		Unemployed			
			Number		Percent of labor force	
	1988	1989	1988	1989	1988	1989
<b>Georgia</b> .....	3,153.0	3,195.0	183.0	177.0	5.8	5.5
Albany .....	53.9	52.9	5.0	4.0	9.2	7.6
Athens .....	74.5	76.9	3.3	3.3	4.5	4.3
Atlanta .....	1,493.7	1,512.5	76.1	77.3	5.1	5.1
Augusta .....	183.4	188.4	10.8	9.8	5.9	5.2
Columbus .....	100.5	98.7	6.7	5.6	6.7	5.7
Macon-Warner Robins .....	130.2	132.6	6.9	6.5	5.3	4.9
Savannah .....	113.6	113.3	7.4	5.9	6.5	5.2
<b>Hawaii</b> .....	518.0	525.0	16.0	13.0	3.2	2.6
Honolulu .....	383.7	384.5	10.6	8.6	2.8	2.2
<b>Idaho</b> .....	479.0	489.0	28.0	25.0	5.8	5.1
Boise City .....	108.0	113.3	4.1	3.8	3.8	3.4
<b>Illinois</b> .....	5,809.0	6,015.0	395.0	359.0	6.8	6.0
Aurora-Elgin .....	176.9	182.6	9.5	9.8	5.4	5.4
Bloomington-Normal .....	69.2	74.5	3.5	3.3	5.1	4.5
Champaign-Urbana-Rantoul .....	88.8	91.6	3.8	3.7	4.2	4.1
Chicago .....	3,191.2	3,298.2	199.4	182.8	6.2	5.5
Davenport-Rock Island-Moline .....	182.3	185.1	13.8	11.8	7.5	6.4
Decatur .....	59.9	60.9	5.2	4.5	8.7	7.4
Joliet .....	198.9	206.7	14.8	13.5	7.4	6.5
Kankakee .....	44.5	46.2	4.2	3.6	9.5	7.8
Lake County .....	279.4	297.0	12.0	11.4	4.3	3.9
Peoria .....	157.3	163.7	10.7	9.7	6.8	5.9
Rockford .....	152.0	155.9	11.2	9.4	7.3	6.0
Springfield .....	111.4	115.0	5.8	5.4	5.2	4.7
<b>Indiana</b> .....	2,807.0	2,881.0	149.0	136.0	5.3	4.7
Anderson .....	59.8	60.2	3.7	3.3	6.2	5.5
Bloomington .....	60.2	61.3	2.1	1.9	3.4	3.2
Elkhart-Goshen .....	97.0	99.1	3.9	4.6	4.1	4.6
Evansville .....	143.1	145.9	8.5	7.3	6.0	5.0
Fort Wayne .....	199.3	206.1	9.6	9.0	4.8	4.4
Gary-Hammond .....	256.7	262.0	16.2	13.6	6.3	5.2
Indianapolis .....	671.5	695.2	31.0	27.5	4.6	3.9
Kokomo .....	47.5	48.5	3.0	2.8	6.2	5.7
Lafayette-West Lafayette .....	66.9	69.7	2.0	2.1	3.0	3.0
Muncie .....	60.4	60.3	3.5	2.9	5.8	4.8
South Bend-Mishawaka .....	130.1	133.4	6.3	6.1	4.9	4.5
Terre Haute .....	59.8	60.8	3.6	2.9	6.0	4.8
<b>Iowa</b> .....	1,500.0	1,513.0	67.0	65.0	4.5	4.3
Cedar Rapids .....	96.5	98.1	3.6	3.6	3.7	3.6
Des Moines .....	232.8	237.1	8.6	8.7	3.7	3.7
Dubuque .....	44.7	45.0	2.4	2.7	5.5	6.0
Iowa City .....	60.6	62.2	1.1	.9	1.8	1.5
Sioux City .....	60.4	60.7	3.1	2.5	5.2	4.1
Waterloo-Cedar Falls .....	71.1	72.4	3.9	3.7	5.5	5.1
<b>Kansas</b> .....	1,282.0	1,284.0	61.0	52.0	4.8	4.0
Lawrence .....	41.3	42.7	1.6	1.4	3.8	3.2
Topeka .....	92.3	92.2	4.3	3.9	4.7	4.2
Wichita .....	250.8	254.8	12.7	10.8	5.1	4.2
<b>Kentucky</b> .....	1,713.0	1,742.0	135.0	108.0	7.9	6.2
Lexington-Fayette .....	192.0	199.2	9.2	7.6	4.8	3.8
Louisville .....	506.3	519.9	31.9	28.8	6.3	5.5
Owensboro .....	43.8	45.4	3.6	2.8	8.2	6.2
<b>Louisiana</b> .....	1,916.0	1,900.0	209.0	151.0	10.9	7.9
Alexandria .....	59.9	59.7	6.0	4.7	10.0	7.8
Baton Rouge .....	270.8	270.6	25.2	18.1	9.3	6.7
Houma-Thibodaux .....	70.3	69.3	7.9	5.2	11.2	7.5
Lafayette .....	100.1	99.6	9.8	6.7	9.8	6.8
Lake Charles .....	76.3	76.3	8.9	6.0	11.7	7.9
Monroe .....	69.6	68.5	7.2	5.1	10.3	7.4
New Orleans .....	595.6	594.5	56.5	41.9	9.5	7.1
Shreveport .....	162.8	158.1	17.3	13.1	10.6	8.3
<b>Maine</b> .....	597.0	616.0	22.0	25.0	3.8	4.1
Lewiston-Auburn .....	41.4	42.2	1.8	2.2	4.4	5.3
Portland .....	126.6	129.1	2.4	3.0	1.9	2.4

See footnotes at end of table.

**STATE AND AREA LABOR FORCE DATA  
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**3. Labor force status by State and selected metropolitan areas—Continued**

(Numbers in thousands)

State and area	Civilian labor force		Unemployed			
			Number		Percent of labor force	
	1988	1989	1988	1989	1988	1989
<b>Maryland</b> .....	2,451.0	2,523.0	109.0	93.0	4.5	3.7
Baltimore .....	1,177.3	1,204.9	57.2	48.3	4.9	4.0
<b>Massachusetts</b> .....	3,155.0	3,180.0	103.0	127.0	3.3	4.0
Boston .....	1,559.9	1,567.0	43.8	53.3	2.8	3.4
Brockton .....	99.0	100.8	3.8	4.8	3.8	4.8
Fall River .....	76.6	78.2	4.1	4.9	5.4	6.3
Fitchburg-Leominster .....	48.1	48.2	1.9	2.6	4.0	5.4
Lawrence-Haverhill .....	186.3	188.9	7.7	10.1	4.1	5.3
Lowell .....	153.7	153.6	5.3	7.0	3.4	4.6
New Bedford .....	86.1	87.2	4.3	5.3	5.0	6.1
Pittsfield .....	40.8	40.5	1.9	1.9	4.7	4.7
Springfield .....	255.3	256.3	8.4	10.3	3.3	4.0
Worcester .....	220.5	221.5	6.6	8.7	3.0	3.9
<b>Michigan</b> .....	4,543.0	4,592.0	345.0	326.0	7.6	7.1
Ann Arbor .....	159.4	160.8	6.1	6.8	3.8	4.2
Battle Creek .....	64.4	65.4	4.7	4.8	7.3	7.4
Benton Harbor .....	77.9	78.9	5.3	5.8	6.8	7.4
Detroit .....	2,181.5	2,194.3	167.1	155.0	7.7	7.1
Flint .....	187.5	183.8	27.1	19.4	14.4	10.5
Grand Rapids .....	359.1	369.0	19.1	19.3	5.3	5.2
Jackson .....	63.8	65.6	4.7	4.5	7.3	6.9
Kalamazoo .....	116.4	119.1	5.6	5.9	4.8	5.0
Lansing-East Lansing .....	241.0	242.1	14.3	13.7	5.9	5.7
Muskegon .....	67.9	68.2	6.0	6.1	8.9	8.9
Saginaw-Bay City-Midland .....	182.1	184.4	13.8	13.0	7.6	7.0
<b>Minnesota</b> .....	2,327.0	2,343.0	94.0	102.0	4.0	4.3
Duluth .....	107.9	108.3	6.5	6.2	6.0	5.7
Minneapolis-St. Paul .....	1,385.9	1,397.5	47.0	52.5	3.4	3.8
Rochester .....	60.6	62.5	1.7	1.9	2.8	3.0
St. Cloud .....	96.1	98.6	4.5	5.0	4.7	5.0
<b>Mississippi</b> .....	1,141.0	1,166.0	96.0	91.0	8.4	7.8
Jackson .....	197.0	202.0	11.7	10.7	6.0	5.3
<b>Missouri</b> .....	2,594.0	2,614.0	148.0	143.0	5.7	5.5
Kansas City .....	850.0	849.6	44.9	41.5	5.3	4.9
St. Louis LMA .....	1,262.0	1,273.7	75.1	70.3	6.0	5.5
Springfield .....	123.7	127.2	5.3	5.7	4.3	4.5
<b>Montana</b> .....	402.0	405.0	27.0	24.0	6.8	5.9
<b>Nebraska</b> .....	819.0	812.0	29.0	25.0	3.6	3.1
Lincoln .....	126.6	125.4	3.4	3.1	2.7	2.5
Omaha .....	330.9	331.2	12.7	11.3	3.8	3.4
<b>Nevada</b> .....	584.0	602.0	30.0	30.0	5.2	5.0
Las Vegas .....	342.0	359.4	18.4	17.9	5.4	5.0
Reno .....	139.2	137.0	6.5	6.5	4.7	4.7
<b>New Hampshire</b> .....	598.0	611.0	15.0	21.0	2.4	3.5
Manchester .....	84.4	86.1	1.9	2.7	2.2	3.2
Nashua .....	98.3	98.6	2.8	3.7	2.8	3.7
Portsmouth-Dover-Rochester .....	134.5	134.5	2.6	3.5	1.9	2.6
<b>New Jersey</b> .....	3,975.0	3,989.0	151.0	163.0	3.8	4.1
Atlantic City .....	176.6	177.5	9.5	9.8	5.4	5.5
Bergen-Passaic .....	714.5	710.0	23.4	26.6	3.3	3.7
Jersey City .....	271.0	273.1	17.1	17.6	6.3	6.4
Middlesex-Somerset-Hunterdon .....	563.7	568.9	15.1	16.4	2.7	2.9
Monmouth-Ocean .....	478.6	484.8	16.1	18.0	3.4	3.7
Newark .....	949.9	958.7	37.2	41.0	3.9	4.3
Trenton .....	171.3	171.0	5.0	5.5	2.9	3.2
Vineland-Millville-Bridgeton .....	58.5	58.4	4.3	4.2	7.3	7.2
<b>New Mexico</b> .....	688.0	698.0	54.0	46.0	7.8	6.7
Albuquerque .....	263.9	266.1	15.6	13.7	5.9	5.1
Las Cruces .....	56.8	58.0	4.1	3.8	7.3	6.6
Santa Fe .....	66.6	67.0	3.4	2.7	5.2	4.1

See footnotes at end of table.

**STATE AND AREA LABOR FORCE DATA  
ANNUAL AVERAGES**

**3. Labor force status by State and selected metropolitan areas—Continued**

(Numbers in thousands)

State and area	Civilian labor force		Unemployed			
			Number		Percent of labor force	
	1988	1989	1988	1989	1988	1989
<b>New York</b> .....	8,526.0	8,681.0	358.0	442.0	4.2	5.1
Albany-Schenectady-Troy .....	( <sup>1</sup> )	438.9	( <sup>1</sup> )	18.2	( <sup>1</sup> )	4.2
Binghamton .....	( <sup>1</sup> )	126.9	( <sup>1</sup> )	6.0	( <sup>1</sup> )	4.7
Buffalo .....	( <sup>1</sup> )	465.7	( <sup>1</sup> )	27.0	( <sup>1</sup> )	5.8
Elmira .....	( <sup>1</sup> )	43.9	( <sup>1</sup> )	2.1	( <sup>1</sup> )	4.7
Glens Falls .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Nassau-Suffolk .....	( <sup>1</sup> )	1,434.6	( <sup>1</sup> )	58.8	( <sup>1</sup> )	4.1
New York .....	( <sup>1</sup> )	3,975.4	( <sup>1</sup> )	214.9	( <sup>1</sup> )	5.4
New York City .....	( <sup>1</sup> )	3,290.7	( <sup>1</sup> )	190.0	( <sup>1</sup> )	5.8
Orange County .....	( <sup>1</sup> )	136.3	( <sup>1</sup> )	6.9	( <sup>1</sup> )	5.0
Poughkeepsie .....	( <sup>1</sup> )	129.9	( <sup>1</sup> )	4.4	( <sup>1</sup> )	3.4
Rochester .....	( <sup>1</sup> )	513.3	( <sup>1</sup> )	21.5	( <sup>1</sup> )	4.2
Syracuse .....	( <sup>1</sup> )	322.7	( <sup>1</sup> )	15.3	( <sup>1</sup> )	4.7
Utica-Rome .....	( <sup>1</sup> )	139.0	( <sup>1</sup> )	7.4	( <sup>1</sup> )	5.3
<b>North Carolina</b> .....	3,319.0	3,391.0	120.0	119.0	3.6	3.5
Asheville .....	67.1	90.9	2.8	2.6	3.2	2.9
Charlotte-Gastonia-Rock Hill .....	627.1	646.9	19.9	20.7	3.2	3.2
Greensboro-Winston-Salem-High Point .....	519.9	521.3	15.8	17.1	3.0	3.3
Raleigh-Durham .....	399.3	420.2	10.2	10.2	2.6	2.4
<b>North Dakota</b> .....	332.0	331.0	16.0	14.0	4.8	4.3
Bismarck .....	46.7	47.6	2.2	2.0	4.8	4.1
Fargo-Moorhead .....	86.6	87.7	2.5	2.4	2.9	2.7
Grand Forks .....	36.2	36.5	1.5	1.3	4.1	3.7
<b>Ohio</b> .....	5,322.0	5,419.0	320.0	300.0	6.0	5.5
Akron .....	324.9	333.0	19.7	17.8	6.1	5.4
Canton .....	190.5	194.1	12.6	11.8	6.6	6.1
Cincinnati .....	761.3	780.3	39.0	34.9	5.1	4.5
Cleveland .....	936.5	951.7	51.4	46.0	5.5	4.8
Columbus .....	711.2	730.3	35.0	34.7	4.9	4.8
Dayton-Springfield .....	468.2	478.6	24.4	24.4	5.2	5.1
Toledo .....	310.9	317.9	18.2	18.9	5.9	5.9
Youngstown-Warren .....	221.3	223.9	16.4	15.0	7.4	6.7
<b>Oklahoma</b> .....	1,523.0	1,523.0	102.0	85.0	6.7	5.6
Enid .....	28.8	27.9	1.6	1.3	5.6	4.6
Lawton .....	48.7	48.4	2.8	2.3	5.8	4.8
Oklahoma City .....	495.7	500.8	27.6	23.2	5.6	4.6
Tulsa .....	338.3	340.1	24.9	19.9	7.4	5.9
<b>Oregon</b> .....	1,426.0	1,475.0	83.0	84.0	5.8	5.7
Eugene-Springfield .....	141.7	147.3	7.9	8.2	5.5	5.5
Portland .....	649.1	675.0	30.8	30.2	4.8	4.5
Salem .....	134.8	138.0	7.9	8.1	5.8	5.9
<b>Pennsylvania</b> .....	5,764.0	5,857.0	293.0	264.0	5.1	4.5
Allentown-Bethlehem .....	322.6	328.7	14.2	14.4	4.4	4.4
Altoona .....	59.4	60.0	4.1	3.7	6.9	6.2
Beaver County .....	60.4	59.4	5.5	4.3	9.1	7.2
Erie .....	129.8	132.7	7.8	6.7	6.0	5.1
Harrisburg-Lebanon-Carlisle .....	320.5	331.2	12.7	12.4	4.0	3.8
Johnstown .....	94.0	95.4	7.0	6.8	7.4	7.1
Lancaster .....	217.1	223.6	7.7	7.4	3.6	3.3
Philadelphia .....	2,419.9	2,428.3	99.8	92.4	4.1	3.8
Pittsburgh .....	965.3	981.5	55.3	44.8	5.7	4.6
Reading .....	172.4	177.3	7.6	7.0	4.4	3.9
Scranton-Wilkes-Barre .....	355.5	363.3	21.4	19.9	6.0	5.5
Sharon .....	49.8	50.8	2.5	2.2	5.1	4.4
State College .....	62.3	65.9	3.1	3.0	5.0	4.6
Williamsport .....	58.9	60.2	3.1	3.5	5.3	5.9
York .....	217.5	222.9	9.3	9.0	4.3	4.0
<b>Rhode Island</b> .....	525.0	525.0	16.0	21.0	3.1	4.1
Pawtucket-Woonsocket-Attleboro .....	165.1	165.9	6.0	7.7	3.6	4.6
Providence .....	343.5	344.6	10.0	13.2	2.9	3.8
<b>South Carolina</b> .....	1,662.0	1,695.0	76.0	80.0	4.5	4.7
Charleston .....	225.8	227.1	8.9	9.5	4.0	4.2
Columbia .....	233.4	235.7	7.5	8.1	3.2	3.4
Greenville-Spartanburg .....	330.8	338.6	11.3	12.2	3.4	3.6
<b>South Dakota</b> .....	357.0	361.0	14.0	15.0	3.9	4.2
Rapid City .....	39.4	39.8	1.7	1.7	4.2	4.2
Sioux Falls .....	74.2	74.5	2.9	2.7	3.9	3.6

See footnotes at end of table.



**STATE AND AREA LABOR FORCE DATA  
ANNUAL AVERAGES**

**3. Labor force status by State and selected metropolitan areas—Continued**

(Numbers in thousands)

State and area	Civilian labor force		Unemployed			
			Number		Percent of labor force	
	1988	1989	1988	1989	1988	1989
<b>Tennessee</b> .....	2,338.0	2,368.0	135.0	121.0	5.8	5.1
Chattanooga .....	210.6	209.9	11.6	10.8	5.5	5.2
Johnson City-Kingsport-Bristol .....	214.6	217.0	12.0	10.1	5.6	4.7
Knoxville .....	283.8	289.6	15.5	15.5	5.4	5.4
Memphis .....	456.4	465.0	23.6	22.0	5.2	4.7
Nashville .....	536.5	529.4	22.8	20.0	4.3	3.8
<b>Texas</b> .....	8,354.0	8,427.0	610.0	567.0	7.3	6.7
Abilene .....	53.1	52.8	3.5	3.4	6.5	6.5
Amarillo .....	98.9	97.9	6.0	5.5	6.0	5.6
Austin .....	430.2	432.8	26.1	23.3	6.1	5.4
Beaumont-Port Arthur .....	164.6	163.8	16.8	14.8	10.2	9.0
Brazoria .....	82.7	85.5	6.7	5.9	8.1	6.9
Brownsville-Harlingen .....	98.8	104.1	13.1	12.2	13.3	11.7
Bryan-College Station .....	59.6	61.3	2.7	2.7	4.5	4.4
Corpus Christi .....	160.2	158.6	15.3	13.2	9.5	8.3
Dallas .....	1,443.4	1,447.0	84.5	79.0	5.9	5.5
El Paso .....	243.7	249.8	26.1	25.6	10.7	10.2
Fort Worth-Arlington .....	715.5	723.3	43.3	39.9	6.0	5.5
Galveston-Texas City .....	108.9	109.9	9.6	8.1	8.9	7.4
Houston .....	1,637.7	1,677.9	111.5	98.7	6.8	5.9
Killeen-Temple .....	94.5	97.3	7.4	7.3	7.8	7.5
Laredo .....	48.8	52.4	6.5	6.2	13.3	11.9
Longview-Marshall .....	79.8	80.5	7.0	6.8	8.8	8.5
Lubbock .....	114.1	114.3	6.2	5.7	5.4	5.0
McAllen-Edinburg-Mission .....	152.4	158.8	25.9	27.1	17.0	17.1
Midland .....	50.4	49.8	3.0	3.0	6.0	6.1
Odessa .....	53.9	52.3	4.1	4.3	7.6	8.2
San Angelo .....	45.8	45.6	2.7	2.6	5.9	5.8
San Antonio .....	611.0	615.0	48.0	45.0	7.9	7.3
Sherman-Denison .....	48.5	47.4	3.3	2.9	6.7	6.1
Texarkana .....	57.6	58.2	4.6	4.2	8.0	7.2
Tyler .....	75.3	75.7	5.7	5.2	7.6	6.9
Victoria .....	36.1	36.1	2.5	2.2	7.0	6.1
Waco .....	92.8	93.4	6.6	5.4	7.1	5.8
Wichita Falls .....	57.5	56.8	3.6	3.5	6.3	6.1
<b>Utah</b> .....	759.0	789.0	37.0	37.0	4.9	4.6
Provo-Orem .....	104.7	110.8	4.5	4.7	4.3	4.3
Salt Lake City-Ogden .....	496.9	514.2	23.0	22.9	4.6	4.5
<b>Vermont</b> .....	299.0	307.0	8.0	11.0	2.8	3.7
Burlington .....	74.5	78.1	1.4	2.1	1.9	2.6
<b>Virginia</b> .....	3,101.0	3,145.0	121.0	123.0	3.9	3.9
Charlottesville .....	68.4	71.2	1.9	1.8	2.8	2.6
Danville .....	52.2	52.4	3.5	3.4	6.8	6.5
Lynchburg .....	72.3	73.8	3.5	3.7	4.8	5.0
Norfolk-Virginia Beach-Newport News .....	613.8	620.0	27.8	28.7	4.5	4.6
Richmond-Petersburg .....	446.1	454.3	15.2	16.5	3.4	3.6
Roanoke .....	122.3	121.8	4.9	4.5	4.0	3.7
<b>Washington</b> .....	2,315.0	2,451.0	143.0	151.0	6.2	6.2
Seattle .....	1,033.3	1,102.7	50.1	50.6	4.8	4.6
<b>West Virginia</b> .....	739.0	767.0	74.0	66.0	9.9	8.6
Charleston .....	114.6	117.7	9.8	8.2	8.6	6.9
Huntington-Ashland .....	127.0	130.6	10.5	8.6	8.3	6.6
Parkersburg-Marietta .....	70.7	72.6	5.2	4.8	7.4	6.6
Wheeling .....	71.6	72.6	5.9	4.8	8.3	6.6
<b>Wisconsin</b> .....	2,570.0	2,611.0	110.0	114.0	4.3	4.4
Appleton-Oshkosh-Neenah .....	171.6	173.9	6.7	7.3	3.9	4.2
Eau Claire .....	73.3	75.5	3.1	3.2	4.3	4.3
Green Bay .....	107.5	110.2	4.5	4.5	4.2	4.0
Janesville-Beloit .....	73.6	74.5	3.3	3.9	4.6	5.3
Kenosha .....	56.5	54.2	2.7	4.2	4.8	7.7
La Crosse .....	55.3	55.2	2.1	2.2	3.8	3.9
Madison .....	222.1	225.4	6.1	6.1	2.7	2.7
Milwaukee .....	762.5	773.8	28.6	29.6	3.8	3.8
Racine .....	90.3	92.5	4.1	4.5	4.5	4.9
Sheboygan .....	57.7	59.8	2.0	2.4	3.5	4.1
Wausau .....	62.4	65.3	2.9	2.9	4.6	4.4
<b>Wyoming</b> .....	238.0	239.0	15.0	15.0	6.3	6.3
Casper .....	30.9	31.1	2.0	2.1	6.6	6.9

<sup>1</sup> Not available.

NOTE: Annual averages for States are obtained directly from the Current Population Survey. Estimates for all sub-state areas are based on administrative statistics adjusted to the

statewide totals. See the Explanatory Notes for State and Area Labor Force Data. Area definitions are published annually in the May issue of this publication. Data for 1988-89 have been adjusted to new benchmark levels.

## **Area Definitions**

**Area definitions**

State and area	Type of area	Definition
<b>Alabama</b>		
Birmingham .....	MSA	Blount, Jefferson, St. Clair, Shelby, and Walker Counties
Huntsville .....	MSA	Madison County
Mobile .....	MSA	Baldwin and Mobile Counties
Montgomery .....	MSA	Autauga, Elmore, and Montgomery Counties
Tuscaloosa .....	MSA	Tuscaloosa County
<b>Arizona</b>		
Phoenix .....	MSA	Maricopa County
Tucson .....	MSA	Pima County
<b>Arkansas</b>		
Fayetteville-Springdale .....	MSA	Washington County
Fort Smith .....	MSA	Crawford and Sebastian Counties, Ark.; Sequoyah County, Okla.
Little Rock-North Little Rock .....	MSA	Faulkner, Lonoke, Pulaski, and Saline Counties
Pine Bluff .....	MSA	Jefferson County
<b>California</b>		
Anaheim-Santa Ana .....	PMSA	Orange County
Bakersfield .....	MSA	Kern County
Fresno .....	MSA	Fresno County
Los Angeles-Long Beach .....	PMSA	Los Angeles County
Modesto .....	MSA	Stanislaus County
Oakland .....	PMSA	Alameda and Contra Costa Counties
Oxnard-Ventura .....	PMSA	Ventura County
Riverside-San Bernardino .....	PMSA	Riverside and San Bernardino Counties
Sacramento .....	MSA	El Dorado, Placer, Sacramento, and Yolo Counties
San Diego .....	MSA	San Diego County
San Francisco .....	PMSA	Marin, San Francisco, and San Mateo Counties
San Jose .....	PMSA	Santa Clara County
Santa Barbara-Santa Maria-Lompoc .....	MSA	Santa Barbara County
Santa Rosa-Petaluma .....	PMSA	Sonoma County
Stockton .....	MSA	San Joaquin County
Vallejo-Fairfield-Napa .....	PMSA	Napa and Solano Counties
<b>Colorado</b>		
Boulder-Longmont .....	PMSA	Boulder County
Denver .....	PMSA	Adams, Arapahoe, Denver, Douglas, and Jefferson Counties
<b>Connecticut</b>		
Bridgeport-Milford .....	PMSA	Bridgeport and Shelton cities, and Easton, Fairfield, Monroe, Stratford, and Trumbull towns in Fairfield County; Ansonia, Derby, and Milford cities and Beacon Falls, Oxford, and Seymour towns in New Haven County
Hartford .....	PMSA	Hartford city, and Avon, Bloomfield, Canton, East Granby, East Hartford, East Windsor, Enfield, Farmington, Glastonbury, Granby, Manchester, Marlborough, Newington, Rocky Hill, Simsbury, South Windsor, Suffield, West Hartford, Wethersfield, Windsor, and Windsor Locks towns in Hartford County; Barkhamsted and New Hartford towns in Litchfield County; East Haddam town in Middlesex County; Colchester town in New London County; Andover, Bolton, Columbia, Coventry, Ellington, Hebron, Somers, Stafford, Tolland, Vernon, and Willington towns in Tolland County
New Britain .....	PMSA	New Britain city, and Berlin, Plainville, and Southington towns in Hartford County
New Haven-Meriden .....	MSA	Clinton and Killingworth towns in Middlesex County; Meriden, New Haven, and West Haven cities, and Bethany, Branford, Cheshire, East Haven, Guilford, Hamden, Madison, North Branford, North Haven, Orange, Wallingford, and Woodbridge towns in New Haven County
Stamford .....	PMSA	Stamford city, and Darien, Greenwich, and New Canaan towns in Fairfield County
Waterbury .....	MSA	Bethlehem, Thomaston, Watertown, and Woodbury towns in Litchfield County; Waterbury city, Naugatuck borough, and Middlebury, Prospect, Southbury, and Wolcott towns in New Haven County
<b>Delaware</b>		
Wilmington .....	PMSA	New Castle County, Del.; Cecil County, Md.; Salem County, N.J.
<b>District of Columbia</b>		
Washington .....	MSA	District of Columbia; Calvert, Charles, Frederick, Montgomery, and Prince Georges Counties, Md.; Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, Prince William, and Stafford Counties, Va.

**Area definitions—Continued**

State and area	Type of area	Definition
<b>Florida</b>		
Daytona Beach .....	MSA	Volusia County
Fort Lauderdale-Hollywood-Pompano Beach .....	PMSA	Broward County
Fort Myers-Cape Coral .....	MSA	Lee County
Gainesville .....	MSA	Alachua and Bradford Counties
Jacksonville .....	MSA	Clay, Duval, Nassau, and St. Johns Counties
Lakeland-Winter Haven .....	MSA	Polk County
Melbourne-Titusville-Palm Bay .....	MSA	Brevard County
Miami-Hialeah .....	PMSA	Dade County
Orlando .....	MSA	Orange, Osceola, and Seminole Counties
Pensacola .....	MSA	Escambia and Santa Rosa Counties
Sarasota .....	MSA	Sarasota County
Tallahassee .....	MSA	Gadsden and Leon Counties
Tampa-St. Petersburg-Clearwater .....	MSA	Hernando, Hillsborough, Pasco, and Pinellas Counties
West Palm Beach-Boca Raton-Delray Beach .....	MSA	Palm Beach County
<b>Georgia</b>		
Albany .....	MSA	Dougherty and Lee Counties
Athens .....	MSA	Clarke, Jackson, Madison, and Oconee Counties
Atlanta .....	MSA	Barrow, Butts, Cherokee, Clayton, Cobb, Coweta, De Kalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Newton, Paulding, Rockdale, Spalding, and Walton Counties
Augusta .....	MSA	Columbia, McDuffie, and Richmond Counties, Ga.; Aiken County, S.C.
Columbus .....	MSA	Chattahoochee and Muscogee Counties, Ga.; Russell County, Ala.
Macon-Warner Robins .....	MSA	Bibb, Houston, Jones, and Peach Counties
Savannah .....	MSA	Chatham and Effingham Counties
<b>Hawaii</b>		
Honolulu .....	MSA	Honolulu County
<b>Idaho</b>		
Boise City .....	MSA	Ada County
<b>Illinois</b>		
Aurora-Elgin .....	PMSA	Kane and Kendall Counties
Bloomington-Normal .....	MSA	McLean County
Champaign-Urbana-Rantoul .....	MSA	Champaign County
Chicago .....	PMSA	Cook, Du Page, and McHenry Counties
Davenport-Rock Island-Moline .....	MSA	Henry and Rock Island Counties, Ill.; Scott County, Iowa
Decatur .....	MSA	Macon County
Joliet .....	PMSA	Grundy and Will Counties
Kankakee .....	MSA	Kankakee County
Lake County .....	PMSA	Lake County
Peoria .....	MSA	Peoria, Tazewell, and Woodford Counties
Rockford .....	MSA	Boone and Winnebago Counties
Springfield .....	MSA	Menard and Sangamon Counties
<b>Indiana</b>		
Anderson .....	MSA	Madison County
Bloomington .....	MSA	Monroe County
Elkhart-Goshen .....	MSA	Elkhart County
Evansville .....	MSA	Posey, Vanderburgh, and Warrick Counties, Ind.; Henderson County, Ky.
Fort Wayne .....	MSA	Allen, DeKalb, and Whitley Counties
Gary-Hammond .....	PMSA	Lake and Porter Counties
Indianapolis .....	MSA	Boone, Hamilton, Hancock, Hendricks, Johnson, Marion, Morgan, and Shelby Counties
Kokomo .....	MSA	Howard and Tipton Counties
Lafayette-West Lafayette .....	MSA	Tippecanoe County
Muncie .....	MSA	Delaware County
South Bend-Mishawaka .....	MSA	St. Joseph County
Terre Haute .....	MSA	Clay and Vigo Counties
<b>Iowa</b>		
Cedar Rapids .....	MSA	Linn County
Des Moines .....	MSA	Dallas, Polk, and Warren Counties
Dubuque .....	MSA	Dubuque County
Iowa City .....	MSA	Johnson County
Sioux City .....	MSA	Woodbury County, Iowa; Dakota County, Nebr.
Waterloo-Cedar Falls .....	MSA	Black Hawk and Bremer Counties

**Area definitions—Continued**

State and area	Type of area	Definition
<b>Kansas</b>		
Lawrence .....	MSA	Douglas County
Topeka .....	MSA	Shawnee County
Wichita .....	MSA	Butler, Harvey, and Sedgwick Counties
<b>Kentucky</b>		
Lexington-Fayette .....	MSA	Bourbon, Clark, Fayette, Jessamine, Scott, and Woodford Counties
Louisville .....	MSA	Bullitt, Jefferson, Oldham, and Shelby Counties, Ky.; Clark, Floyd, and Harrison Counties, Ind.
Owensboro .....	MSA	Daviess County
<b>Louisiana</b>		
Alexandria .....	MSA	Rapides Parish
Baton Rouge .....	MSA	Ascension, East Baton Rouge, Livingston, and West Baton Rouge Parishes
Houma-Thibodaux .....	MSA	Lafourche and Terrebonne Parishes
Lafayette .....	MSA	Lafayette and St. Martin Parishes
Lake Charles .....	MSA	Calcasieu Parish
Monroe .....	MSA	Ouachita Parish
New Orleans .....	MSA	Jefferson, Orleans, St. Bernard, St. Charles, St. John the Baptist, and St. Tammany Parishes
Shreveport .....	MSA	Bossier and Caddo Parishes
<b>Maine</b>		
Lewiston-Auburn .....	MSA	Auburn and Lewiston cities, and Greene, Lisbon, Mechanic Falls, Poland, and Sabattus towns in Androscoggin County
Portland .....	MSA	Portland, South Portland, and Westbrook cities, and Cape Elizabeth, Cumberland, Falmouth, Freeport, Gorham, Gray, North Yarmouth, Raymond, Scarborough, Standish, Windham, and Yarmouth towns in Cumberland County; Buxton, Hollis, and Old Orchard Beach towns in York County
<b>Maryland</b>		
Baltimore .....	MSA	Baltimore city, and Anne Arundel, Baltimore, Carroll, Harford, Howard, and Queen Anne's Counties
Baltimore City .....		Baltimore City
Suburban Maryland-D.C. ....		Calvert, Charles, Frederick, Montgomery, and Prince Georges Counties
<b>Massachusetts</b>		
Boston .....	PMSA	Mansfield, Norton, and Raynham towns in Bristol County; Lynn city and Lynnfield, Nahant, and Saugus towns in Essex County; Cambridge, Everett, Malden, Marlborough, Medford, Melrose, Newton, Somerville, Waltham, and Woburn cities, and Acton, Arlington, Ashland, Ayer, Bedford, Belmont, Boxborough, Burlington, Carlisle, Concord, Framingham, Groton, Holliston, Hopkinton, Hudson, Lexington, Lincoln, Littleton, Maynard, Natick, North Reading, Reading, Sherborn, Shirley, Stoneham, Stow, Sudbury, Townsend, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester towns in Middlesex County; Quincy city, and Bellingham, Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Foxborough, Franklin, Holbrook, Medfield, Medway, Millis, Milton, Needham, Norfolk, Norwood, Randolph, Sharon, Stoughton, Walpole, Wellesley, Westwood, Weymouth, and Wrentham towns in Norfolk County; Carver, Duxbury, Hanover, Hanson, Hingham, Hull, Kingston, Lakeville, Marshfield, Middleborough, Norwell, Pembroke, Plymouth, Plympton, Rockland, and Scituate towns in Plymouth County; Boston, Chelsea, and Revere cities and Winthrop town in Suffolk County; Berlin, Bolton, Harvard, Hopedale, Lancaster, Mendon, Milford, Southborough, and Upton towns in Worcester County
Brockton .....	PMSA	Easton town in Bristol County; Avon town in Norfolk County; Brockton city, and Abington, Bridgewater, East Bridgewater, Halifax, West Bridgewater, and Whitman towns in Plymouth County
Fall River .....	PMSA	Fall River city, and Somerset, Swansea, and Westport towns in Bristol County, Mass.; Little Compton and Tiverton towns in Newport County, R.I.
Fitchburg-Leominster .....	MSA	Ashby town in Middlesex County; Fitchburg and Leominster cities, and Ashburnham, Lunenburg, and Westminster towns in Worcester County
Lawrence-Haverhill .....	PMSA	Haverhill, Lawrence, and Newburyport cities, and Amesbury, Andover, Boxford, Georgetown, Groveland, Merrimac, Methuen, Newbury, North Andover, Salisbury, and West Newbury towns in Essex County, Mass.; Atkinson, Brentwood, Danville, Derry, East Kingston, Hampstead, Kingston, Newton, Plaistow, Salem, Sandown, Seabrook, and Windham towns in Rockingham County, N.H.
Lowell .....	PMSA	Lowell city, and Billerica, Chelmsford, Dracut, Dunstable, Pepperell, Tewksbury, Tyngsborough, and Westford towns in Middlesex County and Pelham town in Hillsborough County
New Bedford .....	MSA	New Bedford city, and Acushnet, Dartmouth, Fairhaven, and Freetown towns in Bristol County; Marion, Mattapoisett, and Rochester towns in Plymouth County

**Area definitions—Continued**

State and area	Type of area	Definition
<b>Massachusetts—Continued</b>		
Pittsfield .....	MSA	Pittsfield city, and Cheshire, Dalton, Hinsdale, Lanesborough, Lee, Lenox, Richmond, and Stockbridge towns in Berkshire County
Springfield .....	MSA	Chicopee, Holyoke, Springfield, and Westfield cities, and Agawam, East Longmeadow, Hampden, Longmeadow, Ludlow, Monson, Montgomery, Palmer, Russell, Southwick, West Springfield, and Wilbraham towns in Hampden County; Northampton city, and Belchertown, Easthampton, Granby, Huntington, Southampton, and South Hadley towns in Hampshire County
Worcester .....	MSA	Worcester city, and Auburn, Barre, Boylston, Brookfield, Charlton, Clinton, Douglas, Dudley, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, Northbridge, North Brookfield, Oxford, Paxton, Princeton, Rutland, Shrewsbury, Spencer, Sterling, Sutton, Uxbridge, Webster, Westborough, and West Boylston towns in Worcester County
<b>Michigan</b>		
Ann Arbor .....	PMSA	Washtenaw County
Battle Creek .....	MSA	Calhoun County
Benton Harbor .....	MSA	Berrien County
Detroit .....	PMSA	Lapeer, Livingston, Macomb, Monroe, Oakland, St. Clair, and Wayne Counties
Flint .....	MSA	Genesee County
Grand Rapids .....	MSA	Kent and Ottawa Counties
Jackson .....	MSA	Jackson County
Kalamazoo .....	MSA	Kalamazoo County
Lansing-East Lansing .....	MSA	Clinton, Eaton, and Ingham Counties
Muskegon .....	MSA	Muskegon County
Saginaw-Bay City-Midland .....	MSA	Bay, Midland, and Saginaw Counties
<b>Minnesota</b>		
Duluth .....	MSA	St. Louis County, Minn.; Douglas County, Wisc.
Minneapolis-St. Paul .....	MSA	Anoka, Carver, Chisago, Dakota, Hennepin, Isanti, Ramsey, Scott, Washington, and Wright Counties, Minn.; St. Croix County, Wis.
Rochester .....	MSA	Olmsted County
St. Cloud .....	MSA	Benton, Sherburne, and Stearns Counties
<b>Mississippi</b>		
Jackson .....	MSA	Hinds, Madison, and Rankin Counties
<b>Missouri</b>		
Kansas City .....	MSA	Johnson, Leavenworth, Miami, and Wyandotte Counties, Kan.; Cass, Clay, Jackson, Lafayette, Platte, and Ray Counties, Mo.
St. Louis .....		Clinton, Jersey, Madison, Monroe, and St. Clair Counties, Ill.; St. Louis city, and Franklin, Jefferson, St. Charles, and St. Louis Counties, Mo.
Springfield .....	MSA	Christian and Greene Counties
<b>Nebraska</b>		
Lincoln .....	MSA	Lancaster County
Omaha .....	MSA	Douglas, Sarpy, and Washington Counties, Nebr.; Pottawattamie County, Iowa
<b>Nevada</b>		
Las Vegas .....	MSA	Clark County
Reno .....	MSA	Washoe County
<b>New Hampshire</b>		
Manchester .....	MSA	Manchester city, and Bedford and Goffstown towns in Hillsborough County; Allenstown and Hooksett towns in Merrimack County; Auburn and Candia towns in Rockingham County
Nashua .....	MSA	Nashua city, and Amherst, Brookline, Hollis, Hudson, Litchfield, Merrimack, Milford, Mont Vernon, and Wilton towns in Hillsborough County; Londonderry town in Rockingham County
Portsmouth-Dover-Rochester .....	MSA	Portsmouth city and Exeter, Greenland, Hampton, New Castle, Newfields, Newington, Newmarket, North Hampton, Rye and Stratham towns in Rockingham County; Dover, Rochester and Somersworth cities, and Barrington, Durham, Farmington, Lee, Madbury, Milton and Rollinsford towns in Strafford County; and Berwick, Eliot, Kittery, North Berwick, Ogunquit, South Berwick, Wells and York towns in York County
<b>New Jersey</b>		
Atlantic City .....	MSA	Atlantic and Cape May Counties
Bergen-Passaic .....	PMSA	Bergen and Passaic Counties
Camden .....		Burlington, Camden, and Gloucester Counties
Jersey City .....	PMSA	Hudson County
Middlesex-Somerset-Hunterdon .....	PMSA	Hunterdon, Middlesex, and Somerset Counties
Monmouth-Ocean .....	PMSA	Monmouth and Ocean Counties
Newark .....	PMSA	Essex, Morris, Sussex, and Union Counties

**Area definitions—Continued**

State and area	Type of area	Definition
<b>New Jersey—Continued</b>		
Trenton .....	PMSA	Mercer County
Vineyard-Milville-Bridgeton .....	PMSA	Cumberland County
<b>New Mexico</b>		
Albuquerque .....	MSA	Bernalillo County
Las Cruces .....	MSA	Dona Ana County
Sante Fe .....	MSA	Los Alamos and Sante Fe Counties
<b>New York</b>		
Albany-Schenectady-Troy .....	MSA	Albany, Greene, Montgomery, Rensselaer, Saratoga, and Schenectady Counties
Binghamton .....	MSA	Broome and Tioga Counties
Buffalo .....	PMSA	Erie County
Elmira .....	MSA	Chemung County
Glens Falls .....	MSA	Warren and Washington Counties
Nassau-Suffolk .....	PMSA	Nassau and Suffolk Counties
New York .....	PMSA	Bronx, Kings, New York, Putnam, Queens, Richmond, Rockland, and Westchester Counties
New York City .....		Bronx, Kings, New York, Queens, and Richmond Counties
Niagara Falls .....	PMSA	Niagara County
Orange County .....	PMSA	Orange County
Poughkeepsie .....	MSA	Dutchess County
Rochester .....	MSA	Livingston, Monroe, Ontario, Orleans, and Wayne Counties
Rockland County .....		Rockland County
Syracuse .....	MSA	Madison, Onondaga, and Oswego Counties
Utica-Rome .....	MSA	Herkimer and Oneida Counties
Westchester County .....		Westchester County
<b>North Carolina</b>		
Asheville .....	MSA	Buncombe County
Charlotte-Gastonia-Rock Hill .....	MSA	Cabarrus, Gaston, Lincoln, Mecklenburg, Rowan, and Union Counties, N.C.; York County, S.C.
Greensboro-Winston-Salem-High Point .....	MSA	Davidson, Davie, Forsyth, Guilford, Randolph, Stokes, and Yadkin Counties
Raleigh-Durham .....	MSA	Durham, Franklin, Orange, and Wake Counties
<b>North Dakota</b>		
Bismarck .....	MSA	Burleigh and Morton Counties
Fargo-Moorhead .....	MSA	Cass County, N.D.; Clay County, Minn.
Grand Forks .....	MSA	Grand Forks County
<b>Ohio</b>		
Akron .....	PMSA	Portage and Summit Counties
Canton .....	MSA	Carroll and Stark Counties
Cincinnati .....	PMSA	Clermont, Hamilton, and Warren Counties, Ohio; Boone, Campbell, and Kenton Counties, Ky.; Dearborn County, Ind.
Cleveland .....	PMSA	Cuyahoga, Geauga, Lake, and Medina Counties
Columbus .....	MSA	Delaware, Fairfield, Franklin, Licking, Madison, Pickaway, and Union Counties
Dayton-Springfield .....	MSA	Clark, Greene, Miami, and Montgomery Counties
Toledo .....	MSA	Fulton, Lucas, and Wood Counties
Youngstown-Warren .....	MSA	Mahoning and Trumbull Counties
<b>Oklahoma</b>		
Enid .....	MSA	Garfield County
Lawton .....	MSA	Comanche County
Oklahoma City .....	MSA	Canadian, Cleveland, Logan, McClain, Oklahoma, and Pottawatomie Counties
Tulsa .....	MSA	Creek, Osage, Rogers, Tulsa, and Wagoner Counties
<b>Oregon</b>		
Eugene-Springfield .....	MSA	Lane County
Portland .....	PMSA	Clackamas, Multnomah, Washington, and Yamhill Counties
Salem .....	MSA	Marion and Polk Counties
<b>Pennsylvania</b>		
Allentown-Bethlehem .....	MSA	Carbon, Lehigh, and Northampton Counties, Pa.; Warren County, N.J.
Altoona .....	MSA	Blair County
Beaver County .....	PMSA	Beaver County
Erie .....	MSA	Erie County
Harrisburg-Lebanon-Carlisle .....	MSA	Cumberland, Dauphin, Lebanon, and Perry Counties
Johnstown .....	MSA	Cambria and Somerset Counties
Lancaster .....	MSA	Lancaster County
Philadelphia .....	PMSA	Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa.; Burlington, Camden, and Gloucester Counties, N.J.

**Area definitions—Continued**

State and area	Type of area	Definition
<b>Pennsylvania—Continued</b>		
Philadelphia City .....		Philadelphia County
Pittsburgh .....	PMSA	Allegheny, Fayette, Washington, and Westmoreland Counties
Reading .....	MSA	Berks County
Scranton-Wilkes-Barre .....	MSA	Columbia, Lackawanna, Luzerne, Monroe, and Wyoming Counties
Sharon .....	MSA	Mercer County
State College .....	MSA	Centre County
Williamsport .....	MSA	Lycoming County
York .....	MSA	Adams and York Counties
<b>Puerto Rico</b>		
Caguas .....	PMSA	Aguas Buenas, Caguas, Cayey, Cidra, Gurabo, and San Lorenzo Municipios
Mayaguez .....	MSA	Anasco, Cabo Rojo, Hormigueros, Mayaguez, and San German Municipios
Ponce .....	MSA	Juana Diaz and Ponce Municipios
San Juan .....	PMSA	Barceloneta, Bayamon, Canovanas, Carolina, Catano, Corozal, Dorado, Fajardo, Florida, Guaynabo, Humacao, Juncos, Las Piedras, Loiza, Luquillo, Manati, Naranjito, Rio Grande, San Juan, Toa Alta, Toa Bajo, Trujillo Alto, Vega Alta, and Vega Baja Municipios
<b>Rhode Island</b>		
Pawtucket-Woonsocket-Attleboro .....	PMSA	Central Falls, Pawtucket, and Woonsocket cities, and Burnlville, Cumberland, Lincoln, North Smithfield, and Smithfield towns in Providence County, R.I.; Attleboro city, and North Attleborough, Rehoboth, and Seekonk towns in Bristol County, Mass.; Plainville town in Norfolk County, Mass.; Blackstone and Millville towns in Worcester County, Mass.
Providence .....	PMSA	Barrington, Bristol, and Warren towns in Bristol County; Warwick city, and Coventry, East Greenwich, and West Warwick towns in Kent County; Jamestown town in Newport County; Cranston, East Providence, and Providence cities and Foster, Glocester, Johnston, North Providence, and Scituate towns in Providence County; Exeter, Narragansett, North Kingston, Richmond, and South Kingstown towns in Washington County
<b>South Carolina</b>		
Charleston .....	MSA	Berkeley, Charleston, and Dorchester Counties
Columbia .....	MSA	Lexington and Richland Counties
Greenville-Spartanburg .....	MSA	Greenville, Pickens, and Spartanburg Counties
<b>South Dakota</b>		
Rapid City .....	MSA	Pennington County
Sioux Falls .....	MSA	Minnehaha County
<b>Tennessee</b>		
Chattanooga .....	MSA	Hamilton, Marion, and Sequatchie Counties, Tenn.; Catoosa, Dade, and Walker Counties, Ga.
Johnson City-Kingsport-Bristol .....	MSA	Carter, Hawkins, Sullivan, Unicoi, and Washington Counties, Tenn.; Bristol city, Scott, and Washington Counties, Va.
Knoxville .....	MSA	Anderson, Blount, Grainger, Jefferson, Knox, Sevier, and Union Counties
Memphis .....	MSA	Shelby and Tipton Counties, Tenn.; Crittenden County, Ark., and DeSoto County, Miss.
Nashville .....	MSA	Cheatham, Davidson, Dickson, Robertson, Rutherford, Sumner, Williamson, and Wilson Counties
<b>Texas</b>		
Abilene .....	MSA	Taylor County
Amarillo .....	MSA	Potter and Randall Counties
Austin .....	MSA	Hays, Travis, and Williamson Counties
Beaumont-Port Arthur .....	MSA	Hardin, Jefferson, and Orange Counties
Brazoria .....	PMSA	Brazoria County
Brownsville-Harlingen .....	MSA	Cameron County
Bryan-College Station .....	MSA	Brazos County
Corpus Christi .....	MSA	Nueces and San Patricio Counties
Dallas .....	PMSA	Collin, Dallas, Denton, Ellis, Kaufman, and Rockwall Counties
El Paso .....	MSA	El Paso County
Fort Worth-Arlington .....	PMSA	Johnson, Parker, and Tarrant Counties
Galveston-Texas City .....	PMSA	Galveston County
Houston .....	PMSA	Fort Bend, Harris, Liberty, Montgomery, and Waller Counties
Killeen-Temple .....	MSA	Bell and Coryell Counties
Laredo .....	MSA	Webb County
Longview-Marshall .....	MSA	Gregg and Harrison Counties
Lubbock .....	MSA	Lubbock County
McAllen-Edinburg-Mission .....	MSA	Hidalgo County
Midland .....	MSA	Midland County
Odessa .....	MSA	Ector County
San Angelo .....	MSA	Tom Green County



**Area definitions—Continued**

State and area	Type of area	Definition
<b>Texas—Continued</b>		
San Antonio .....	MSA	Bexar, Comal, and Guadalupe Counties
Sherman-Denison .....	MSA	Grayson County
Texarkana .....	MSA	Bowie County, Tex.; and Miller County, Ark.
Tyler .....	MSA	Smith County
Victoria .....	MSA	Victoria County
Waco .....	MSA	McLennan County
Wichita Falls .....	MSA	Wichita County
<b>Utah</b>		
Provo-Orem .....	MSA	Utah County
Salt Lake City-Ogden .....	MSA	Davis, Salt Lake, and Weber Counties
<b>Vermont</b>		
Barre-Montpelier .....		East Granville town in Addison County; Groton and Ryegate towns in Caledonia County; Bolton and Huntington towns in Chittenden County; Bradford, Braintree, Brookfield, Chelsea, Corinth, Fairlee, Newbury, Orange, Randolph, Topsham, Vershire, Washington, West Fairlee and Williamstown towns in Orange County; and Barre city and Barre, Berlin, Cabot, Calais, Duxbury, East Montpelier, Fayston, Marshfield, Middlesex, Montpelier, Moretown, Northfield, Plainfield, Roxbury, Waitsfield, Warren and Waterbury towns in Washington County
Burlington .....	MSA	Burlington, South Burlington, and Winooski cities and Charlotte, Colchester, Essex, Hinesburg, Jericho, Milton, Richmond, St. George, Shelburne, and Williston towns in Chittenden County; Georgia town in Franklin County; Grand Isle and South Hero towns in Grand Isle County
<b>Virginia</b>		
Bristol .....		Bristol city, and Scott and Washington Counties
Charlottesville .....	MSA	Charlottesville city and Albemarle, Fluvanna, and Greene Counties
Danville .....	MSA	Danville city and Pittsylvania County
Lynchburg .....	MSA	Lynchburg city, and Amherst and Campbell Counties
Norfolk-Virginia Beach-Newport News .....	MSA	Chesapeake, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach and Williamsburg cities, and Gloucester, James City, and York Counties
Northern Virginia .....		Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, Prince William, and Stafford Counties
Richmond-Petersburg .....	MSA	Colonial Heights, Hopewell, Petersburg, and Richmond cities, and Charles City, Chesterfield, Dinwiddie, Goochland, Hanover, Henrico, New Kent, Powhatan, and Prince George Counties
Roanoke .....	MSA	Roanoke and Salem cities, and Botetourt and Roanoke Counties
<b>Washington</b>		
Seattle .....	PMSA	King and Snohomish Counties
<b>West Virginia</b>		
Charleston .....	MSA	Kanawha and Putnam Counties
Huntington-Ashland .....	MSA	Cabell and Wayne Counties, W. Va.; Boyd, Carter, and Greenup Counties, Ky.; Lawrence County, Ohio
Parkersburg-Marietta .....	MSA	Wood County, W. Va.; Washington County, Ohio
Wheeling .....	MSA	Marshall and Ohio Counties, W. Va.; Belmont County, Ohio
<b>Wisconsin</b>		
Appleton-Oshkosh-Neenah .....	MSA	Calumet, Outagamie, and Winnebago Counties
Eau Claire .....	MSA	Chippewa and Eau Claire Counties
Green Bay .....	MSA	Brown County
Janesville-Beloit .....	MSA	Rock County
Kenosha .....	PMSA	Kenosha County
La Crosse .....	MSA	La Crosse County
Madison .....	MSA	Dane County
Milwaukee .....	PMSA	Milwaukee, Ozaukee, Washington, and Waukesha Counties
Racine .....	PMSA	Racine County
Sheboygan .....	MSA	Sheboygan County
Wausau .....	MSA	Marathon County
<b>Wyoming</b>		
Casper .....	MSA	Natrona County

# Explanatory Notes

## Introduction

The statistics in this periodical are compiled from two major sources: (1) Household interviews, and (2) reports from employers.

*Data based on household interviews* are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 60,000 households, representing 729 areas in 1,973 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

*Data based on establishment records* are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are currently based on payroll reports from a sample of over 300,000 establishments employing over 38 million nonagricultural wage and salary workers. The data relate to all workers, full or part time, who receive pay during the payroll period which includes the 12th day of the month.

## RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

The household and establishment data supplement one another, each providing significant types of information that the other cannot suitably supply. Population characteristics, for example, are readily obtained only from the household survey whereas detailed industrial classifications can be reliably derived only from establishment reports.

Data from these two sources differ from each other because of differences in definitions and coverage, sources of information, methods of collection, and estimating procedures. Sampling variability and response errors are additional reasons for discrepancies. The major factors which

have a differential effect on the levels and trends of the two series are as follows.

## Employment

*Coverage.* The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises, and members of the Armed Forces stationed in the United States. Civilian employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of nonagricultural establishments.

*Multiple jobholding.* The household survey 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 and are classified according to the job at which they worked the greatest number of hours during the survey week. In the figures based on establishment reports, persons who worked in more than one establishment during the reporting period are counted each time their names appear on payrolls.

*Unpaid absences from jobs.* The household survey includes among the employed all civilians who had jobs but were not at work during the survey week—that is, were not working but had jobs from which they were temporarily absent because of illness, bad weather, vacation, labor-management disputes, or because they were taking time off for various other reasons, even if they were not paid by their employers for the time off. In the figures based on payroll reports, persons on leave paid for by the company are included, but not those on leave without pay for the entire payroll period.

For a comprehensive discussion of the differences between household and establishment survey employment data, see Gloria P. Green's article, "Comparing Employment Estimates From Household and Payroll Surveys," *Monthly Labor Review*, December 1969.

## Hours of work

The household survey measures hours actually worked whereas the payroll survey measures hours paid for by

employers. In the household survey data, all persons with a job but not at work are excluded from the hours distributions and the computations of average hours. In the payroll survey, production or nonsupervisory employees on paid vacation, paid holiday, or paid sick leave are included and assigned the number of hours for which they were paid during the reporting period.

## Earnings

The household survey measures median earnings of wage and salary workers in all occupations and industries in both the private and public sectors. Data refer to the usual earnings received from the worker's sole or primary job. Data from the establishment survey generally refer to average earnings of production and related workers in mining and manufacturing, construction workers in construction, and nonsupervisory employees in private service-producing industries. For a comprehensive discussion of the household survey earnings series, see *Technical Description of the Quarterly Data on Weekly Earnings from the Current Population Survey*, BLS Bulletin 2113.

## COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

*Unemployment insurance data.* The unemployed total from the household survey includes all persons who did not have a job at all during the survey week and were looking for work or were waiting to be called back to a job from which they had been laid off, whether or not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Employment and Training Administration of the Department of Labor, exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

In addition, the qualifications for drawing unemployment compensation differ from the definition of unemployment used in the household survey. For example, persons with a job but not at work and persons working only a few hours during the week are sometimes eligible for unemployment compensation but are classified as employed rather than

unemployed in the household survey.

For an examination of the similarities and differences between State insured unemployment and total unemployment, see "Measuring Total and State Insured Unemployment" by Gloria P. Green in the June 1971 issue of the *Monthly Labor Review*.

*Agricultural employment estimates of the Department of Agriculture.* The principal differences in coverage are the inclusion of persons under 16 in the Economics and Statistics Service series and the treatment of dual jobholders, who are counted more than once if they work on more than one farm during the reporting period. There are also wide differences in sampling techniques and collecting and estimating methods, which cannot be readily measured in terms of their impact on differences in the levels and trends of the two series.

## COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

*Statistics on manufactures and business, Bureau of the Census.* BLS establishment statistics on employment differ from employment counts derived by the Bureau of Census from its censuses or sample surveys of manufacturing and business establishments. The major reasons for noncomparability are different treatment of business units considered parts of an establishment, such as central administrative offices and auxiliary units, the industrial classification of establishments, and different reporting patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in the BLS statistics.

*County Business Patterns.* Data in *County Business Patterns* (CBP), published by the Bureau of the Census, U.S. Department of Commerce, differ from BLS establishment statistics in the treatment of central administrative offices and auxiliary units. Differences may also arise because of industrial classification and reporting practices. In addition, CBP excludes interstate railroads and government, and coverage is incomplete for some of the nonprofit activities.

*Employment covered by State unemployment insurance programs.* Most nonagricultural wage and salary workers are covered by the unemployment insurance programs. However, certain activities, such as interstate railroads, parochial schools, and churches are not covered by unemployment insurance whereas these are included in the BLS establishment statistics.

# Household Data

## (A tables)

### COLLECTION AND COVERAGE

Statistics on the employment status of the population, the personal, occupational, and other characteristics of the employed, the unemployed, and persons not in the labor force, and related data are compiled for the BLS by the Bureau of the Census in its Current Population Survey (CPS). A detailed description of this survey appears in *Concepts and Methods Used in Labor Force Statistics Derived from the Current Population Survey*, BLS Report 463. Historical national data are published in *Labor Force Statistics Derived From the Current Population Survey*, BLS Bulletin 2307.

These monthly surveys of the population are conducted through a scientifically selected sample designed to represent the civilian noninstitutional population. Respondents are interviewed to obtain information about the employment status of each member of the household 16 years of age and over. The inquiry relates to activity or status during the calendar week, Sunday through Saturday, which includes the 12th of the month. This is known as the survey week. Actual field interviewing is conducted in the following week.

Inmates of institutions and persons under 16 years of age are not covered in the regular monthly enumerations, and are excluded from the population and labor force statistics shown in this publication. Data on the members of the Armed Forces stationed in the United States, who are included as part of the categories "noninstitutional population," "labor force," and "total employment," are obtained from the Department of Defense.

Each month about 60,000 occupied units are eligible for interview. About 2,600 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 and 5 percent. In addition to the 60,000 occupied units, there are 11,500 sample units in an average month which are visited but found to be vacant or otherwise not enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from one month to the next, and one-half to be common with the same month a year earlier.

### CONCEPTS AND DEFINITIONS

The concepts and definitions underlying labor force data have been modified, but not substantially altered, since the inception of the survey in 1940; those used since 1967 are as follows:

*Employed persons* are (a) all civilians who, during the survey week, did any work at all as paid employees, in their own business, profession, or on their own farm, or who worked 15 hours or more as unpaid workers in an enterprise

operated by a member of the family; and (b) all those who were not working but who had jobs or businesses from which they were temporarily absent because of illness, bad weather, vacation, labor-management disputes, or personal reasons, whether they were paid for the time off or were seeking other jobs. Members of the Armed Forces stationed in the United States are also included in the employed total.

Each employed person is counted only once. Those who held more than one job are counted in the job at which they worked the greatest number of hours during the survey week.

Included in the total are employed citizens of foreign countries who are temporarily in the United States but not living on the premises of an embassy. Excluded are persons whose only activity consisted of work around the house (painting, repairing, or own home housework) or volunteer work for religious, charitable, and similar organizations.

*Unemployed persons* are all civilians who had no employment during the survey week, were available for work, except for temporary illness, and had made specific efforts to find employment some time during the prior 4 weeks. Persons who were waiting to be recalled to a job from which they had been laid off or were waiting to report to a new job within 30 days need not be looking for work to be classified as unemployed.

*Duration of unemployment* represents the length of time (through the current survey week) during which persons classified as unemployed had been continuously looking for work. For persons on layoff, duration of unemployment represents the number of full weeks since the termination of their most recent employment. A period of 2 weeks or more during which a person was employed or ceased looking for work is considered to break the continuity of the present period of seeking work. Measurements of mean and median duration are computed from a distribution of single weeks of unemployment.

Unemployment is also categorized according to the status of individuals at the time they began to look for work. The reasons for unemployment are divided into four major groups. (1) *Job losers* are persons whose employment ended involuntarily who immediately began looking for work, and persons on layoff. (2) *Job leavers* are persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work. (3) *Reentrants* are persons who previously worked at a full-time job lasting 2 weeks or longer but were out of the labor force prior to beginning to look for work. (4) *New entrants* are persons who never worked at a full-time job lasting 2 weeks or longer. Each of these four categories of the unemployed may be expressed as an unemployment rate or proportion of the entire civilian labor force; the sum of the four rates thus equals the unemployment rate for all civilian workers.

*Jobseekers* are all unemployed persons who made specific

efforts to find a job sometime during the 4-week period preceding the survey week. Jobseekers do not include those persons unemployed because they (a) were waiting to be called back to a job from which they had been laid off or (b) were waiting to report to a new job within 30 days. Jobseekers are grouped by the methods used to seek work, including going to a public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some other method. Examples of the "other" category include being on a union or professional register, obtaining assistance from a community organization, or waiting at a designated labor pickup point.

The *civilian labor force* comprises all civilians classified as employed or unemployed in accordance with the criteria described above. The *labor force* also includes members of the Armed Forces stationed in the United States.

The *overall unemployment rate* represents the number unemployed as a percent of the labor force, including members of the Armed Forces stationed in the United States.

The *unemployment rate for all civilian workers* represents the number unemployed as a percent of the civilian labor force. This measure can also be computed for groups within the labor force classified by sex, age, race, Hispanic origin, marital status, etc.

*Participation rates* represent the proportion of the population that is in the labor force. The *labor force participation rate* is the ratio of the labor force, including the resident Armed Forces, to the noninstitutional population. The *civilian labor force participation rate* is the ratio of the civilian labor force to the civilian noninstitutional population. Civilian labor force participation rates are usually published for sex-age groups, often cross-classified by other demographic characteristics such as race and educational attainment.

*Employment-population ratios* represent the proportion of the noninstitutional population that is employed. The *total employment-population ratio* is total employment, including the resident Armed Forces, as a percent of the noninstitutional population. The *civilian employment-population ratio* is the percentage of all employed civilians in the civilian noninstitutional population.

*Not in the labor force* includes all persons who are not classified as employed or unemployed. These persons are further classified as engaged in own home housework, in school, unable to work because of long-term physical or mental illness, retired, and other. The "other" group includes individuals reported as too old or temporarily unable to work, the voluntarily idle, seasonal workers for whom the survey week fell in an off season and who were not reported as looking for work, and persons who did not look for work because they believed that no jobs were available in the area or that no jobs were available for which they could qualify—discouraged workers. Persons doing only incidental, unpaid family work (less than 15 hours in the specified week) are also classified as not in labor force.

For persons not in the labor force, data on previous work experience, intentions to seek work, desire for a job at the

time of interview, and reasons for not looking for work are published on a quarterly basis. As of January 1970, the detailed questions for persons not in the labor force are asked only in those households that are in the fourth and eighth months of the sample, i.e., the "outgoing" groups, those which had been in the sample for 3 previous months and would not be in for the subsequent month. Between 1967 and 1969, these questions were asked in those households entering the sample for the first time and those returning for the second 4 months of interviewing, i.e., the "incoming" groups.

*Occupation, industry, and class of worker* for the employed apply to the job held in the survey week. Persons with two or more jobs are classified in the job at which they worked the greatest number of hours during the survey week. The unemployed are classified according to their last full-time job lasting 2 weeks or more. The classifications of occupations and industries used in data derived from the CPS are defined as in the 1980 census. Information on the detailed categories included in these groups is available upon request.

The class-of-worker breakdown specifies wage and salary workers subdivided into private and government workers; self-employed workers; and unpaid family workers. Wage and salary workers receive wages, salary, commission, tips, or pay in kind from a private employer or from a government unit. Self-employed persons are those who work for profit or fees in their own business, profession, or trade, or operate a farm. Unpaid family workers are persons working without pay for 15 hours a week or more on a farm or in a business operated by a member of the household to whom they are related by birth or marriage.

*Hours of work* statistics relate to the actual number of hours worked during the survey week. For example, persons who normally work 40 hours a week but were off on the Columbus Day holiday would be reported as working 32 hours even though they were paid for the holiday. For persons working in more than one job, the figures relate to the number of hours worked in all jobs during the week; all the hours are credited to the major job.

Persons who worked 35 hours or more during the survey week are designated as working *full time*. Persons who worked between 1 and 34 hours are designated as working *part time*. Part-time workers are classified by their usual status at their present job (either full or part time) and by their reason for working part time during the survey week (economic or noneconomic reasons). Economic reasons include: Slack work, material shortages, repairs to plant or equipment, start or termination of a job during the week, and inability to find full-time work. Noneconomic reasons include: Labor dispute, bad weather, own illness, vacation, demands of home or school, no desire for full-time work, and full-time worker only during peak season. Persons on full-time schedules include, in addition to those working 35 hours or more, those who worked from 1 to 34 hours for noneconomic reasons and usually work full time.

Data on employment "at work" differ from data on total employment because they exclude persons in the zero-hours-

worked category, "with a job but not at work." These are persons who were absent from their jobs for the entire week for such reasons as bad weather, vacation, illness, or involvement in a labor dispute.

Employed persons are also categorized into full- and part-time groupings based primarily on their *usual status*. In this context, *full-time workers* are those who (a) worked 35 hours or more during the survey week, (b) worked 1 to 34 hours for economic or noneconomic reasons, but usually work full time, and (c) were with a job but not at work and usually work full time. Similarly, *part-time workers* are those who (a) voluntarily worked 1 to 34 hours during the survey week, (b) worked 1 to 34 hours for economic reasons, but usually work part time, i.e., persons who could only find part-time work; and (c) were with a job but not at work and usually work part time.

Unemployment rates for full- and part-time workers are calculated using the concepts of the *full- and part-time labor force* which are based on the type of job—full or part-time—that persons—whether working or unemployed—report that they want. The "full-time labor force" includes all persons working part time but who desire full-time work, that is, working part time for economic reasons. Thus, this category consists of persons on full-time schedules; all persons involuntarily working part time regardless of their usual status; and unemployed persons seeking full-time jobs. The "part-time labor force" consists of persons working part time voluntarily and unemployed persons seeking part-time work. Employed persons with a job but not at work are distributed according to whether they usually work on full-time or voluntary part-time schedules.

*Labor force time lost* is a measure of aggregate hours lost to the economy through unemployment and involuntary part-time employment and is expressed as a percent of potentially available aggregate hours. It is computed by assuming that: (1) unemployed persons looking for full-time work lost an average of 37.5 hours, (2) those looking for part-time work lost the average number of hours actually worked by voluntary part-time workers during the survey week, and (3) persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

*White, black, and other* are terms used to describe the race of workers. Included in the "other" group are American Indians, Alaskan Natives, and Asians and Pacific Islanders. All tables in this publication which contain racial data, with the exception of A-5 and its annual counterpart, present data for the black population group. Because of their relatively small sample size, data for "other" races are not published. In the enumeration process, race is determined by the household respondent.

*Hispanic origin* refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, Cuban, Central or South American, or of other Hispanic origin or descent. Persons of Hispanic origin

may be of any race; thus they are included in both the white and black population groups.

*Vietnam-era veterans* are those who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975. Data are limited to men in the civilian non-institutional population; i.e., veterans in institutions and women are excluded. Nonveterans are men who never served in the Armed Forces.

*Usual weekly earnings* data are provided from responses to the question "How much does...USUALLY earn per week at this job before deductions?" Included are any overtime pay, commissions, or tips usually received. The term "usual" is as perceived by the respondent. If the respondent asks for a definition of usual, interviewers are instructed to define the term as more than half the weeks worked during the past 4 or 5 months. Data refer to wage and salary workers (excluding the incorporated self-employed) who usually work full time on their sole or primary job.

*Median earnings* indicate the value which divides the earnings distribution into two equal parts, one part having values above the median and the other having values below the median. The medians as shown in this publication are calculated by linear interpolation of the \$50 centered interval within which each median falls.

Data expressed in constant dollars are deflated by the Consumer Price Index for All Urban Consumers (CPI-U).

*Single, never married; married, spouse present; and other marital status* are terms used to define the marital status of individuals at the time of interview. Married, spouse present, applies to husband and wife if both were reported as members of the same household even though one may be temporarily absent on business, vacation, on a visit, in a hospital, etc. Other marital status applies to persons who are married, spouse absent; widowed; or divorced. Married, spouse absent, includes persons who are separated because of marital discord, as well as persons who are living apart because either the husband or the wife was employed and living away from home, serving in the Armed Forces, or had a different place of residence for any reason.

A *household* consists of all persons—related family members and all unrelated persons—who occupy a housing unit. A house, an apartment, a group of rooms, or a single room is regarded as a housing unit when occupied or intended for occupancy as separate living quarters.

A *householder* is the person (or one of the persons) in whose name the housing unit is owned or rented. The term is never applied to either husbands or wives in married-couple families but relates only to persons in families maintained by either men or women without a spouse.

*Family* refers to a group of two or more persons residing together who are related by birth, marriage, or adoption; all such persons are considered as members of one family even though they may include a related subfamily, that is, a married couple or a parent-child group related by birth or marriage to the householder and sharing the living quarters. The

count of families used in this publication excludes unrelated subfamilies such as lodgers, guests, or resident employees living in a household but not related to the householder. Families are classified either as married-couple families or as families maintained by women or men without spouses. A family maintained by a woman or a man is one in which the householder is either single, widowed, divorced, or married, spouse absent. Data on the earnings of families exclude all those in which there is no wage or salary earner or in which the husband, wife, or other persons maintaining the family is either self-employed or in the Armed Forces.

*Poverty areas* are defined as those census tracts in tracted areas, and Minor Civil Division's (MCD's) in untraced areas, in which 20 percent or more of the noninstitutional residents were poor according to the 1980 decennial census. Persons were classified as poor or nonpoor by comparing money income to a series of poverty income thresholds which vary by family size and number of children. While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas, and conversely, the areas include many people who are not poor.

The *metropolitan areas* classification consists of the total of all Metropolitan Statistical Areas (MSA's) as defined by the Office of Management and Budget (OMB) as of June 30, 1983. These definitions differ from those used in the 1980 decennial census. A detailed discussion of the MSA definitions as well as changes in terminology can be found in "The New Metropolitan Area Definitions" section of the *1980 Census of Population Supplementary Report on Metropolitan Statistical Areas*, PC-S1-18. Nonmetropolitan areas consist of the total territory outside MSA's.

The *urban population*, as defined for the 1980 census, comprises all persons living in urbanized areas and in places of 2,500 or more inhabitants outside urbanized areas. More specifically, the urban population consists of all persons living in (1) places of 2,500 or more inhabitants incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the New England States, New York, and Wisconsin), but excluding those persons living in the rural portions of extended cities; and (2) other territories, incorporated and unincorporated, included in urbanized areas. The population not classified as urban constitutes the rural population.

## HISTORICAL COMPARABILITY

### Change in lower age limit

The lower age limit for official statistics on the labor force, employment, and unemployment was raised from 14 to 16 years of age in January 1967. Insofar as possible, historical series have been revised to provide consistent information based on the population 16 years and over. For a detailed discussion of this and other definitional changes introduced at that time, including estimates of their effect on the various series, see "New Definitions for Employment and Unemployment," *Employment and Earnings and Monthly*

*Report on the Labor Force*, February 1967.

### Noncomparability of labor force levels

In addition to the changes introduced in 1967, there are several other periods of noncomparability in the labor force data: (1) Beginning in 1953, as a result of introducing data from the 1950 census into the estimating procedures, population levels were raised by about 600,000; labor force, total employment, and agricultural employment were increased by about 350,000, primarily affecting the figures for totals and men; other categories were relatively unaffected. (2) Beginning in 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force. Four-fifths of this increase was in nonagricultural employment; other labor force categories were not appreciably affected. (3) Beginning in 1962, the introduction of data from the 1960 census reduced the population by about 50,000 and labor force and employment by about 200,000; unemployment totals were virtually unchanged. (4) Beginning in 1972, information from the 1970 census was introduced into the estimation procedures, increasing the population by about 800,000; labor force and employment totals were raised by a little more than 300,000; and unemployment levels and rates were essentially unchanged. (5) A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment, which affected the white and black-and-other groups but had little effect on totals, resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black-and-other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black-and-other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

In addition, beginning in January 1974, the methodology used to prepare independent estimates of the civilian noninstitutional population was modified to an inflation-deflation approach. This change in the derivation of the estimates had its greatest impact on estimates of 20- to 24-year-old men—particularly those of the black-and-other population—but had little effect on estimates of the total population 16 years and over. Additional information on the adjustment procedure appears in "CPS Population Controls Derived from Inflation-Deflation Method of Estimation", in the February 1974 issue of *Employment and Earnings*.

Effective in July 1975, as a result of the immigration of Vietnamese refugees into the United States, the total and black-and-other independent population controls for persons 16 years and over were adjusted upward by 76,000—30,000 men and 46,000 women. The addition of the refugees increased the black-and-other population by less than 1 percent in any age-sex group, and all of the changes were in the other population.

Beginning in January 1978, the introduction of an expansion in the sample and revisions in the estimation procedures resulted in an increase of about 250,000 in the civilian labor

force and employment totals; unemployment levels and rates were essentially unchanged. An explanation of the procedural changes and an indication of the differences appear in "Revisions in the Current Population Survey in January 1978" in the February 1978 issue of *Employment and Earnings*.

Beginning in October 1978, the race of the individual was determined by the household respondent for the incoming rotation group households, rather than by the interviewer as before. The purpose of this change was to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households had race determined by the household respondent and seven-eighths of the sample households had race determined by interviewer observation. It was not until January 1980 that the entire sample had race determined by the household respondent. The new procedure had no significant effect on the estimates.

Beginning in January 1979, the first-stage ratio estimation method was changed in the CPS estimation procedure. Differences between the old and new procedures existed only for metropolitan and nonmetropolitan area estimates, not for the total United States. The reasoning behind the change and an indication of the differences appear in "Revisions in the Current Population Survey in January 1979" in the February 1979 issue of *Employment and Earnings*.

Beginning in January 1982, the second-stage ratio adjustment methodology was changed in the CPS estimation procedure. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in "Revisions in the Current Population Survey Beginning in January 1982" in the February 1982 issue of *Employment and Earnings*. In addition, current population estimates used in the second-stage estimation procedure were derived from information obtained from the 1980 census, rather than the 1970 census. This change caused substantial increases in total population and estimates of persons in all labor force categories. Rates for labor force characteristics, however, remained virtually unchanged. Some 30,000 labor force series were adjusted back to 1970 to avoid major breaks in series. The adjustment procedure used is also described in the February 1982 article cited above. The revisions did not, however, smooth out the breaks in series occurring between 1972 and 1979 that are described above, and data users should make allowances for them in making certain data comparisons.

Beginning in January 1983, the first-stage ratio adjustment methodology was updated to account for results obtained from the 1980 census. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in "Revisions in the Current Population Survey Beginning in January 1983" in the February 1983 issue of *Employment and Earnings*. There were only slight differences between the old and new procedures in estimates of levels for the various labor force characteristics and virtually no differences in estimates of participation rates.

Beginning in January 1985, most of the steps of the CPS estimation procedure—the noninterview adjustment, the first and second-stage ratio adjustments, and the composite

estimator—were revised. These procedures are described in the Estimating Methods section. A description of the changes and an indication of their effect on 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 this publication. Overall, the revisions had only a slight effect on most estimates. The greatest impact was on estimates of persons of Hispanic origin. Major estimates were revised back to January 1980.

Beginning in January 1986, the population controls used in the second-stage ratio adjustment methodology were revised to reflect an explicit estimate of the number of undocumented immigrants (largely Hispanic) since 1980 and an improved estimate of the number of emigrants among legal foreign-born residents for the same time period. As a result, the total civilian population and labor force estimates were raised by nearly 400,000; civilian employment was increased by about 350,000. The Hispanic-origin civilian population and labor force estimates were raised by about 425,000 and 305,000, respectively, and civilian employment by 270,000. Overall and subgroup unemployment levels and rates were not significantly affected. Because of the magnitude of the adjustments for Hispanics, data have been revised back to January 1980 to the extent possible. An explanation of the changes and their effect on estimates of labor force characteristics appear in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986" in the February 1986 issue of this publication.

### **Changes in the occupational and industrial classification system**

Beginning in 1971, the comparability of occupational employment data was affected as a result of changes in the occupational classification system for the 1970 census that were introduced into the CPS. Comparability was further affected in December 1971, when a question relating to major activity or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. As a result of these changes, meaningful comparisons of occupational employment levels could not be made between 1971-72 and prior years nor between those 2 years. Unemployment rates were not significantly affected. For a further explanation of the changes in the occupational classification system, see "Revisions in Occupational Classifications for 1971" and "Revisions in the Current Population Survey" in the February 1971 and February 1972 issues, respectively, of *Employment and Earnings*.

Beginning in January 1983, the occupational and industrial classification systems used in the 1980 census were introduced into the CPS. These systems differ from those developed for the 1970 census, which were used in the CPS from January 1971 through December 1982.

The 1980 census occupational classification system evolved



from the Standard Occupational Classification system (SOC). While the CPS occupational data are now comparable with other data sources, the new system is so radically different in concepts and nomenclature from the 1970 system that comparisons of historical data are not possible without major adjustments. For example, the 1980 major group "sales occupations" is substantially larger than the 1970 category "sales workers". Major additions include "cashiers" from "clerical workers" and some self-employed proprietors in retail trade establishments from "managers and administrators, except farm."

The industrial classification system used in the 1980 census is based on the 1972 Standard Industrial Classification system (SIC), as modified in 1977. The adoption of the new system had a much less adverse effect on historical comparability than did the new occupational system. The most notable changes from the 1970 system were the transfer of farm equipment stores from "retail" to "wholesale" trade, postal service from "public administration" to "transportation", and some interchange between "professional and related services" and "public administration."

Additional information on the 1980 census occupational and industrial classification systems appears in "Revisions in the Current Population Survey Beginning in January 1983" in the February 1983 issue of *Employment and Earnings*.

### Changes in the sample design

Since the inception of the survey, there have been various changes in the design of the CPS sample. Most of these changes were made in order to improve the efficiency of the sample design and/or to increase the reliability of the sample estimates.

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, the number of sample areas and the number of sample persons are increased occasionally. In 1953, the current rotation plan was introduced, in which a sample unit is interviewed for 4 months, leaves the sample for 8 months, and then returns to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a noncontiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated into the design. In October 1978, a coverage improvement sample, composed of approximately 450 sample household units which represented 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates in order to provide coverage of mo-

mobile homes and new construction units that previously had no chance for selection in the CPS sample selected from the 1970 census frame. In January 1980, another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added to the existing sample. A sample reduction of about 6,000 units was implemented in May 1981. Beginning in January 1982, the sample was expanded by 100 households to provide additional coverage in counties added to SMSA's, which were redefined in 1973.

Beginning in 1985, a new State-based CPS sample was selected based on 1980 census information rather than 1970 census information. The selection of new sample areas provided an opportunity to improve the efficiency of the sample design. Sample areas chosen to replace incoming sample areas account for only 10 percent of the national estimate. The new CPS sample has resulted in increased reliability for State estimates with a slightly reduced sample size. Sample households are chosen from 729 sample areas, which represent 1,973 geographic areas in the United States. This current number of sample areas is not completely comparable to the old number of sample areas since many of the sample areas have been redefined. (See pp. 7-10 of the May 1984 issue of *Employment and Earnings*, for an overview of these new definitions and the introduction of the new sample.) A sample reduction of about 4,000 households was implemented in April 1988; they were reinstated during the 8-month period, April-November 1989.

Table A provides a description of some aspects of the CPS sample design in use during the different data collection periods. A more detailed account of the history of the CPS sample design appears in the *Current Population Survey: Design and Methodology*, Technical Paper No. 40, Bureau of the Census, or *Concepts and Methods used in Labor Force Statistics Derived From the Current Population Survey*, Report 463, Bureau of Labor Statistics.

### ESTIMATING METHODS

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns from the entire panel of respondents. The estimation procedure involves weighting the data from each sample person by the inverse of the probability of the person being in the sample. This gives a rough measure of the number of actual persons that the sample person represents. Beginning in 1985, almost all sample persons within the same State have the same probability of selection. These estimates are then adjusted for noninterviews, and the ratio estimation procedure is applied.

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondents for other reasons. This noninterview adjustment is made separately by combinations of similar sample areas that are not necessarily contained within a State. Similarity of sample areas is based on Metropolitan Statistical Area (MSA) status and size. Within

**Table A. Characteristics of the CPS sample, 1947 to date**

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	1,330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	2,333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981	629	62,200	2,800	12,000
May 1981 to Dec. 1984	629	57,800	2,500	11,000
Jan. 1985 to Mar. 1988	729	57,000	2,500	11,000
Apr. 1988 to Mar. 1989	729	53,200	2,600	11,500
Nov. 1989 to present <sup>3</sup>	72 <sup>2</sup>	57,400	2,600	11,800

<sup>1</sup> Beginning in May 1956, these areas were chosen to provide coverage in each State and the District of Columbia.

<sup>2</sup> Three sample areas were added in 1960 to represent Alaska and Hawaii after statehood.

<sup>3</sup> The sample was increased incrementally during the 8-month period, April-November 1989.

each combination of sample areas there is a further breakdown by residence. MSA sample areas are categorized by "central city" and "balance of the MSA". Residence categories of non-MSA areas are "urban" and "rural". The proportion of sample households not interviewed varies from 4 to 5 percent, depending on weather, vacation, etc.

2. *Ratio estimates.* The distribution of the population selected for the sample may differ somewhat, by chance, from that of the population as a whole in such characteristics as age, race, sex, and residence. Since these characteristics are closely correlated with labor force participation and other principal measurements made from the sample, the survey estimates can be substantially improved when weighted appropriately by the known distribution of these population characteristics. This is accomplished through two stages of ratio estimates as follows:

a. *First-stage ratio estimate.* In the CPS, a portion of the 729 sample areas is chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The adjustment is made at the State level for each of the 43 States which contain nonsample areas by race cells of black and non-black. The procedure corrects for differences that existed in each cell at the time of the 1980 census between the race distribution of the population in sample areas and the known race distribution of the State.

b. *Second-stage ratio estimate.* In this stage, the sample proportions of persons in specific categories are adjusted to the distribution of independent current estimates of the civilian noninstitutional population in the same categories. The second-stage ratio adjustment, which is performed to

further reduce variability of the estimates and to correct to some extent for CPS undercoverage relative to the decennial census, is carried out in three steps. In the first step, the sample estimates are adjusted within each State and the District of Columbia to an independent control for the population 16 years and over. The second step involves an adjustment by Hispanic origin to a national estimate for eight age-sex categories by Hispanic and non-Hispanic. In the third step, a national adjustment is made by the race categories of white, black, and other races to independent estimates by age and sex. The white and black categories contain 32 age-sex groups each; the other races category has 6 age-sex cells. The entire second-stage adjustment procedure is iterated six times, each time beginning at the weights developed the previous time. This ensures that the sample estimates of the population for both State and national age-sex-race-origin categories will be virtually equal to the independent population control totals. This second-stage adjustment procedure incorporates changes instituted in January 1985. The nature and effect of these changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985" in the February 1985 issue of *Employment and Earnings*.

The controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation of the trend in the growth of this segment of the population using the two most recent July 1 estimates, adjusted as a last step to a current estimate of the U.S. population of this group. State estimates by age for July 1 are published annually in *Current Population Reports*, Series P-25. For a description of the methodology used in developing the State total, see Report 957 of that series. A description of the age estimates methodology is available in Report 1010 of that series.

Prior to January 1985, there was no separate control for Hispanics in the second-stage ratio procedure. These Hispanic controls are prepared by carrying forward the 1980 census count for Hispanics by adding estimated Hispanic births and immigrants and subtracting estimated Hispanic deaths

and emigrants to yield an estimate of the Hispanic population by age and sex.

During the period from January 1982 to December 1984, the "inflation-deflation" method was temporarily discontinued in the preparation of the independent national controls used for the age-sex-race groups in the third step of the second-stage ratio estimation procedure. These controls were prepared by carrying forward the 1980 census data after taking account of subsequent aging of the population, births, deaths, and net migration and then subtracting the estimate for the institutional population and Armed Forces. Beginning in January 1985, the "inflation-deflation" method of deriving independent population controls was reintroduced into the CPS estimation procedure. With the "inflation-deflation" method, the independent controls are prepared by inflating the 1980 census counts to include estimated undercounts by age, sex and race, aging this population forward to each subsequent month and later age by adding births and net migration, and subtracting deaths. These post-censal population estimates are then deflated to census level to reflect the pattern of net undercount in the most recent census by age, sex, and race. Because an estimate of undercount is first added and then subtracted, the size of each race-sex group is unaffected by the "inflation-deflation" method. Similarly, the final estimate is affected only by the age structure of the undercount, but not the level. This feature of the method is important since the exact amount of undercount in the 1980 census remains unknown.

Data on births and deaths between April 1, 1980, and the estimate date are based on tabulations of vital statistics for the resident population made by the National Center for Health Statistics and data on deaths of military personnel overseas from the Department of Defense. Estimates of net civilian immigration are based on data provided by the Immigration and Naturalization Service, the Department of Defense, the Office of Personnel Management, and the Puerto Rico Planning Board. The civilian noninstitutional population is derived by subtracting the Armed Forces and the institutional population for the estimate date from the total including Armed Forces overseas. The institutional population is computed by applying institutional proportions derived from the 1980 census to the total population, including Armed Forces overseas for the estimate date. All computations described above are performed in cells defined by single year of age, race, and sex. The independent national control totals are then obtained by collapsing these cells into broader age groups for the population 16 years and older.

Beginning in January 1986, two changes were introduced into the estimation of the independent population controls. For the first time, an explicit allowance for net undocumented immigration since April 1, 1980 (the census date) was added to the estimated level of legal immigration. In addition, an increase in the estimate of emigration of legal foreign-born residents has been incorporated into the postcensal population estimates since 1980. The nature and effect of these changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986" in the February 1986 issue of *Employment and Earnings*.

3. *Composite estimate procedure.* In deriving statistics for a given month, a composite estimating procedure is used which takes account of net changes from the previous month for continuing parts of the sample (75 percent), as well as the sample results for the current month. Also included is an additional term which is an estimate of the net difference between incoming and continuing parts of the current month's sample. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of level are also improved, but to a lesser extent.

### **Rounding of estimates**

The sums of individual items may not always equal the totals shown in the same tables because of independent rounding of totals and components to the nearest thousand. Similarly, sums of percent distributions may not always equal 100 percent because of rounding. Differences, however, are insignificant.

### **Reliability of the estimates**

There are two types of errors possible in an estimate based on a sample survey—sampling and nonsampling. The standard errors provided primarily indicate the magnitude of the sampling error. They also partially measure the effect of some nonsampling errors in response and enumeration but do not measure any systematic biases in the data.

*Nonsampling error.* The full extent of nonsampling error is unknown, but special studies have been conducted to quantify some sources of nonsampling error in the CPS, as discussed below. The effect of nonsampling error should be small on estimates of relative change, such as month-to-month change. Estimates of monthly levels would be more severely affected by the nonsampling error.

Nonsampling errors in surveys can be attributed to many sources, e.g., inability to obtain information about all cases in the sample, definitional difficulties, differences in the interpretation of questions, inability or unwillingness of respondents to provide correct information, inability to recall information, errors made in collection such as in recording or coding the data, errors made in processing the data, errors made in estimating values for missing data, and failure to represent all sample households and all persons within sample households (undercoverage).

Nonsampling errors occurring in the interview phase of the survey have been studied by means of a reinterview program. This program is used to estimate various sources of error as well as to evaluate and control the work of the interviewers. A random sample of each interviewer's work is inspected through reinterview at regular intervals. The results indicate, among other things, that the data published from the CPS are subject to moderate systematic biases. A description of the CPS reinterview program and some of the other results may be found in the *Current Population Survey Reinterview Program*,

January 1961 Through December 1966, Technical Paper No. 19, Bureau of the Census, U.S. Department of Commerce.

The effects of some components of nonsampling error in the CPS data can be examined as a result of the rotation plan used for the sample, since the level of the estimates varies by rotation group. A description of these effects appears in "The Effects of Rotation Group Bias on Estimates From Panel Surveys," by Barbara A. Bailar, *Journal of the American Statistical Association*, Volume 70, No. 349, March 1975.

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Compared to the level of the decennial census, undercoverage is about 6 percent. It is known that the CPS undercoverage varies with age, sex, race, and Hispanic origin. Generally, undercoverage is larger for men than for women, and larger for blacks, Hispanics, and other races combined than for whites. Ratio estimation to independent age-sex-race-Hispanic origin population controls, as described previously, partially corrects for the biases due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race-Hispanic origin group. Further, the independent population controls used have not been adjusted for undercoverage in the 1980 census.

Additional information on nonsampling error in the CPS appears in "An Error Profile: Employment as Measured by the Current Population Survey," by Camilla Brooks and Barbara Bailar, Statistical Policy Working Paper 3, U.S. Department of Commerce, Office of Federal Statistical Policy and Standards; in "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, April 1973; and in *The Current Population Survey, Design and Methodology*, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce. This last document includes a comprehensive discussion of various sources of error and describes attempts to measure them in the CPS.

*Sampling error.* The standard error is primarily a measure of sampling variability, that is, of the variation that occurs by chance because a sample rather than the entire population is surveyed. The sample estimate and its estimated standard error enable one to construct confidence intervals, ranges that would include the average of all possible samples with a known probability. For example, if all possible samples were selected, each of these surveyed under essentially the same general conditions and using the same sample design, and an estimate and its estimated error were calculated from each sample, then:

1. Approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the average result of all possible samples.

2. Approximately 90 percent of the intervals from 1.6

standard errors below the estimate to 1.6 standard errors above the estimate would include the average of all possible samples.

3. Approximately 95 percent of the intervals from 2 standard errors below the estimate to 2 standard errors above the estimate would include the average result of all possible samples.

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations are required. First, the standard errors in this volume reflect the sample design and estimation procedures in effect prior to the expansions for State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Second, instead of computing an individual standard error for each estimate, generalized sets of standard errors are computed for various types of characteristics. This generalization yields more stable estimates of the standard errors. Consequently, the sets of standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

Tables B and C show approximate standard errors for major employment status characteristics for monthly estimates and for changes for consecutive months. These standard errors are applicable to the level of the estimates in recent months.

Tables D through H provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table I contains factors for use with table H for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the table may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between 2 consecutive months. Estimates of change for non-consecutive months are subject to higher standard errors. Table J contains factors for use with tables D, F, H, and I to compute approximate standard errors for levels, labor force participation rates, and percentages as pertaining to the year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50, and for the 1956-66 period they should be multiplied by 1.22. Table K provides generalized standard



reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are not published when the monthly base is less than 75,000, the quarterly average base is less than 60,000, or the annual average base is less than 35,000.

Tables F and G show generalized standard errors for monthly level and month-to-month change for unemployment rates. Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentage can be obtained through the use of the standard errors in table H and the factors in table I. First, obtain the standard error from table H for the specific percentage and base. The generalized standard error is then calculated by multiplying the standard error from table H by the appropriate factor from table I. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

*Illustration.* Assume that in a given month 2.9 percent of a total of 112,440,000 employed persons are employed in agriculture. The standard error on an estimate of 2.9 percent with a base of 112,440,000 is obtained from table H (0.08 percent). The appropriate factor from table I for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error on the estimated 2.9 percent is then approximately  $0.08 \times 1.26 = 0.10$  percentage point.

*Standard errors for year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages.* The approximate standard errors of levels, rates, and percentages involving year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages may be obtained by using table J in conjunction with the other tables. Standard errors for estimates of change are more closely related to the level of the estimate than to the size of the specific change. Thus, to obtain the standard error of an estimate of an average level, rate, or percentage, or an estimate of a change in level, rate, or percentage, it is first necessary to find the appropriate estimate of level. For an estimate of an average level, rate, or percentage, find the standard error of this estimate. For an estimate of change in level, rate, or percentage, find the standard error of the average of the two estimates affecting the change. Then, after computing the standard error by treating these estimates as monthly estimates and using the procedures above, multiply this result by a suitable factor from table J to obtain the approximate standard error for the average or change.

*Illustration.* Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume that for a certain month the unemployment rate is 6.2 percent, based on a total of 119,865,000 in the civilian labor force, and that

**Table D. Standard errors for estimates of monthly level**

(in thousands)

Estimated monthly level	Characteristic <sup>1</sup>								
	Agricultural employment	Unemployment		Labor force data other than agricultural employment and unemployment					
		Total or white	Black	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white men only, or women only	Black men only, or women only
50 .	15	11	12	12	12	12	12	11	10
100 .	21	16	17	17	17	17	16	15	14
500 .	47	36	38	37	37	36	32	34	31
1,000 .	66	51	53	52	51	50	35	49	43
2,000 .	93	72	73	74	70	68	-	68	58
4,000 .	131	101	97	104	92	86	-	95	73
6,000 .	159	123	110	126	104	92	-	115	76
8,000 .	182	141	116	145	109	88	-	132	69
10,000 .	202	156	-	161	108	72	-	145	47
15,000 .	-	188	-	193	74	-	-	172	-
20,000 .	-	213	-	219	-	-	-	191	-
30,000 .	-	-	-	259	-	-	-	215	-
40,000 .	-	-	-	286	-	-	-	225	-
50,000 .	-	-	-	306	-	-	-	222	-
60,000 .	-	-	-	319	-	-	-	206	-
70,000 .	-	-	-	326	-	-	-	172	-
80,000 .	-	-	-	327	-	-	-	107	-
100,000 .	-	-	-	314	-	-	-	-	-
120,000 .	-	-	-	274	-	-	-	-	-
140,000 .	-	-	-	195	-	-	-	-	-

<sup>1</sup> When determining the standard error of an estimate for a group which is a subset of the age, sex, or race groups listed, use the standard error for the next larger group, e.g., when determining the standard error

of the estimated number of employed persons age 20 to 54 years, use the column for total employed.

**Table E. Standard errors for estimates of month-to-month change**

(in thousands)

Estimated monthly level	Characteristic <sup>1</sup>							
	Unemployment				Labor force data other than unemployment and agricultural employment			
	Total or white	Both sexes 16 to 19 years, or part-time labor force <sup>2</sup>	Black	Black, 16 to 19 years	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years
50	13	14	13	14	9	9	14	14
100	18	20	19	20	12	12	20	19
500	40	45	41	38	27	27	43	37
1,000	56	63	57	41	39	38	59	39
2,000	78	89	76	-	55	52	80	-
4,000	108	124	95	-	77	68	100	-
6,000	129	150	99	-	93	78	104	-
8,000	144	-	89	-	107	82	94	-
10,000	157	-	58	-	119	81	65	-
15,000	177	-	-	-	143	59	-	-
20,000	184	-	-	-	163	-	-	-
30,000	-	-	-	-	192	-	-	-
40,000	-	-	-	-	213	-	-	-
50,000	-	-	-	-	228	-	-	-
60,000	-	-	-	-	238	-	-	-
70,000	-	-	-	-	244	-	-	-
80,000	-	-	-	-	245	-	-	-
100,000	-	-	-	-	237	-	-	-
120,000	-	-	-	-	212	-	-	-
140,000	-	-	-	-	160	-	-	-

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

<sup>2</sup> Part-time labor force for unemployment also includes persons reentering

the labor force, persons who left their last job, and persons by duration of unemployment.

a year prior to this the unemployment rate was 7.0 percent, based on a total of 117,834,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.6 percent with a base of 118,850,000, is obtained from table F (0.11 percentage point). The appropriate factor, then, from table J is 1.40. The approximate standard error on the change of 0.8 percent is then given by 0.11 x 1.40 = 0.15 percentage point.

The approximate standard error of levels involving year-to-year change of quarterly estimates pertaining to CPS earnings data for persons and families may be obtained by using table K in conjunction with the following formula:

Standard error of year-to-year change =

$$\sqrt{\left(\frac{\text{Standard error}}{x}\right)^2 + \left(\frac{\text{Standard error}}{y}\right)^2 - 2(P) \left(\frac{\text{Standard error}}{x}\right) \left(\frac{\text{Standard error}}{y}\right)}$$

X is the estimate for one quarter and Y is the estimate for another quarter. The coefficient, P, is a measure of the corre-

lation between the estimates X and Y resulting from the presence of some of the same respondents in the sample for each estimate. For consecutive year-to-year changes of quarterly estimates, the values of P are 0.30 for persons (total, white, and black) and 0.35 for families (total, white, and black). The respective values for estimates of Hispanics are 0.45 and 0.55.

*Illustration.* Assume that in a given quarter the number of women employed as full-time wage and salary workers was 27,000,000 and in the same quarter a year later, their number had increased to 29,000,000. Using linear interpolation in the eighth column of table K, the standard error of an estimate of 27,000,000 is 216,000; for 29,000,000 it is 221,000. Using the above formula, the standard error of the 2,000,000 year-to-year change is:

$$(216,000)^2 + (221,000)^2 - 2(.30) (216,000) (221,000),$$

or about 259,000.

**Table F. Standard errors for unemployment rates**

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50 . . .	2.28	3.20	4.98	6.85	8.13	9.09	9.82	10.36	10.75	11.12
100 . . .	1.61	2.26	3.52	4.84	5.75	6.43	6.94	7.33	7.60	7.87
500 . . .	.72	1.01	1.58	2.16	2.57	2.88	3.11	3.28	3.40	3.52
1,000 . . .	.51	.72	1.11	1.53	1.82	2.03	2.20	2.32	2.40	2.49
2,000 . . .	.36	.51	.79	1.08	1.29	1.44	1.55	1.64	1.70	1.76
4,000 . . .	.25	.36	.56	.77	.91	1.02	1.10	1.16	1.20	1.24
6,000 . . .	.21	.29	.45	.62	.74	.83	.90	.95	.98	1.02
10,000 . . .	.16	.23	.35	.48	.58	.64	.69	.73	.76	.79
20,000 . . .	.11	.16	.25	.34	.41	.45	.49	.52	.54	.56
60,000 . . .	.07	.09	.14	.20	.24	.26	.28	.30	.31	.32
100,000 . . .	.05	.07	.11	.15	.18	.20	.22	.23	.24	.25
120,000 . . .	.05	.07	.10	.14	.17	.19	.20	.21	.22	.23
140,000 . . .	.04	.06	.09	.13	.15	.17	.19	.20	.21	.21

**Table G. Standard errors for month-to-month change in unemployment rates**

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50 . . .	2.53	3.57	5.60	7.83	9.47	10.79	11.91	12.87	13.71	15.67
100 . . .	1.79	2.52	3.96	5.53	6.69	7.63	8.42	9.10	9.69	11.08
500 . . .	.80	1.13	1.77	2.47	2.99	3.41	3.76	4.06	4.33	4.94
1,000 . . .	.57	.80	1.25	1.75	2.11	2.41	2.65	2.87	3.05	3.48
2,000 . . .	.40	.56	.88	1.23	1.49	1.70	1.87	2.02	2.15	2.44
4,000 . . .	.28	.40	.63	.87	1.05	1.20	1.32	1.42	1.51	1.70
6,000 . . .	.23	.33	.51	.71	.86	.97	1.07	1.15	1.22	1.37
10,000 . . .	.18	.25	.39	.55	.66	.75	.82	.88	.93	1.03
20,000 . . .	.13	.18	.28	.38	.46	.51	.56	.60	.62	-
60,000 . . .	.07	.10	.16	.21	.24	.27	.28	-	-	-
100,000 . . .	.06	.08	.12	.15	.17	.18	-	-	-	-
120,000 . . .	.05	.07	.11	.14	.15	-	-	-	-	-
140,000 . . .	.05	.07	.10	-	-	-	-	-	-	-

**Table H. Standard errors for estimated percentages and month-to-month change in percentages for labor force data**

Monthly base of percentages (in thousands)	Percentage of monthly level									
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	30 or 70	35 or 65	50
50 . . .	2.34	3.29	5.12	7.05	8.39	9.40	10.18	10.77	11.21	11.75
100 . . .	1.65	2.33	3.62	4.99	5.94	6.65	7.20	7.62	7.93	8.31
500 . . .	.74	1.04	1.62	2.23	2.65	2.97	3.22	3.41	3.55	3.72
1,000 . . .	.52	.74	1.15	1.58	1.88	2.10	2.28	2.41	2.51	2.63
2,000 . . .	.37	.52	.81	1.12	1.33	1.49	1.61	1.70	1.77	1.86
4,000 . . .	.26	.37	.57	.79	.94	1.05	1.14	1.20	1.25	1.31
6,000 . . .	.21	.30	.47	.64	.77	.86	.93	.98	1.02	1.07
10,000 . . .	.17	.23	.36	.50	.59	.66	.72	.76	.79	.83
20,000 . . .	.12	.16	.26	.35	.42	.47	.51	.54	.56	.59
40,000 . . .	.08	.12	.18	.25	.30	.33	.36	.38	.40	.42
60,000 . . .	.07	.10	.15	.20	.24	.27	.29	.31	.32	.34
80,000 . . .	.06	.08	.13	.18	.21	.24	.25	.27	.28	.29
100,000 . . .	.05	.07	.11	.16	.19	.21	.23	.24	.25	.26
120,000 . . .	.05	.07	.10	.14	.17	.19	.21	.22	.23	.24
140,000 . . .	.04	.06	.10	.13	.16	.18	.19	.20	.21	.22
160,000 . . .	.04	.06	.09	.12	.15	.17	.18	.19	.20	.21

NOTE: The standard errors in this table must be multiplied by the factors in table I to obtain the approximate standard error for a specific characteristic.



**Table I. Factors to be used with table H to compute approximate standard errors for percentages and month-to-month change in percentages**

Characteristic	Factor		Characteristic	Factor	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Agricultural employment:			Unemployment:		
Total or full-time labor force . . . . .	1.26	1.05	Part-time labor force, duration of unemployment, left last job, reentering labor force . . . . .	1.01	1.21
Part-time labor force . . . . .	1.26	1.50	All other unemployment characteristics:		
Labor force data other than agricultural employment and unemployment:			Total or white:		
Total . . . . .	1.00	.74	Total . . . . .	.97	1.08
Men only . . . . .	.93	.84	Both sexes, 16 to 19 years . . . . .	.97	1.21
Women only . . . . .	.86	.75	Black:		
Both sexes, 16 to 19 years . . . . .	1.00	1.18	Total . . . . .	1.04	1.13
Part-time labor force . . . . .	1.00	1.18	Both sexes, 16 to 19 years . . . . .	1.04	1.24

**Table J. Factors to be used with tables D, F, H, and I to compute the approximate standard errors for levels, rates, and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages, and change in yearly averages**

Characteristic	Factor				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or men . . . . .	1.30	0.89	0.80	0.72	0.70
Women or teenagers (16 to 19 years) . . . . .	1.30	.83	.80	.58	.70
Part time . . . . .	1.40	.74	.80	.46	.70
Labor force data other than agricultural employment and unemployment:					
Total or white . . . . .	1.30	.88	.88	.67	.70
Black or teenagers (16 to 19 years) . . . . .	1.30	.82	.88	.57	.70
Part time . . . . .	1.40	.74	.88	.46	.60
Unemployment:					
Total . . . . .	1.40	.76	.88	.50	.65
Part time . . . . .	1.40	.69	.88	.39	.54

**Table K. Standard errors for estimates of quarterly levels, to be used with CPS earnings data**

(In thousands)

Estimated quarterly level	Characteristic								
	Total			Men			Women		
	Part-time workers	Total or full-time workers		Part-time workers	Total or full-time workers			Total, full-time, or part-time workers	
		Total or white	Black		Total	White	Black	Total or white	Black
10 .	5	5	5	5	5	5	5	5	5
50 .	11	12	12	11	12	12	12	11	11
75 .	13	15	15	13	15	15	15	13	13
100 .	15	17	17	15	17	17	17	15	15
150 .	19	21	21	19	21	21	21	19	19
200 .	22	24	24	22	24	24	24	22	21
250 .	24	27	27	24	27	27	27	24	24
300 .	26	30	30	26	30	30	29	26	26
500 .	34	38	38	34	38	38	37	34	33
750 .	42	47	46	42	47	47	45	42	41
1,000 .	48	54	53	48	54	54	50	48	46
1,500 .	59	66	63	59	66	66	59	59	56
2,000 .	68	76	72	68	76	76	65	68	63
2,500 .	76	85	79	75	84	84	69	75	69
3,000 .	83	93	85	82	92	92	71	82	74
5,000 .	107	119	100	105	117	116	64	105	85
7,500 .	130	145	107	127	140	138	64	127	88
10,000 .	149	165	102	144	157	155	-	145	-
15,000 .	180	198	102	187	183	179	-	173	-
20,000 .	205	224	-	192	199	193	-	195	-
25,000 .	226	244	-	207	209	199	-	211	-
30,000 .	224	261	-	219	212	198	-	224	-
40,000 .	273	286	-	233	201	174	-	242	-
50,000 .	296	301	-	-	160	100	-	249	-
75,000 .	331	304	-	-	160	-	-	-	-
100,000 .	343	255	-	-	-	-	-	-	-

# Establishment Data (Tables B-1 through C-8)

## COLLECTION

Payroll reports provide current information on wage and salary employment and hours and earnings in nonagricultural establishments, by industry and geographic location. Historical statistics are published in *Employment, Hours, and Earnings, United States, 1909-84*, and *Employment, Hours, and Earnings, States and Areas, 1939-82* and their supplements.

### Federal-State cooperation

Under cooperative arrangements, responding establishments report employment, hours, and earnings data to State agencies. State agencies mail the forms to the establishments and examine the returns for consistency, accuracy, and completeness. The States use the reported data to prepare State and area series and also send the reported data to the BLS (Washington Office) for use in preparing the national series. This avoids a duplicate reporting burden on establishments, and, together with the use of similar estimating techniques at the national and State levels, promotes increased comparability between estimates.

### Shuttle schedules

Form BLS 790—Report on Employment, Payroll, and Hours is the name of the data collection schedule. The collection agency returns the schedule to the respondent each month so that the next month's data can be entered on the space allotted for that month. This "shuttle" procedure assures maximum comparability and accuracy of reporting, since the respondent can see the figures that have been reported for previous months.

Form BLS 790 provides for entry of data on the total number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, employment, payroll, and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month.

## CONCEPTS

### Industrial classification

Establishments reporting on Form BLS 790 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. Since January 1980, this information is collected on a supplement to the quarterly unemployment insurance tax reports filed by employers. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the

industry indicated by the principal product or activity.

All data on employment, hours, and earnings for the Nation and for States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual (SICM)*, Office of Management and Budget. The BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sector.

### Industry employment

Employment data, except those for the Federal Government, refer to persons on establishment payrolls who received pay for any part of the pay period which includes the 12th of the month. For Federal Government establishments, employment figures represent the number of persons who occupied positions on the last day of the calendar month. Intermittent workers are counted if they performed any service during the month.

The data exclude proprietors, the self-employed, unpaid volunteer or family workers, farm workers, and domestic workers. Salaried officers of corporations are included. Government employment covers only civilian employees; military personnel are excluded. Employees of the Central Intelligence Agency and the National Security Agency also are excluded.

Persons on establishment payrolls who are on paid sick leave (when pay is received directly from the firm), on paid holiday, on paid vacation, or who work during a part of the pay period even though they are unemployed or on strike during the rest of the period are counted as employed. Not counted as employed are persons who are on layoff, on leave without pay, on strike for the entire period, or who were hired but have not yet reported during the period.

*Indexes of diffusion of employment change (table B-7).* These indexes measure the dispersion among industries of the change in employment over the specified time span. The overall indexes are calculated from 349 seasonally adjusted employment series (three-digit industries) covering all nonagricultural payroll employment in the private sector. The manufacturing diffusion indexes are based on 141 three-digit industries.

To derive the indexes, each component industry is assigned a value of 0, 50, or 100 percent, depending on whether its employment showed a decrease, no change, or an increase, respectively, over the time span. The average value (mean) is then calculated, and this percent is the diffusion index number.

The reference point for diffusion analysis is 50 percent, the value which indicates that the same number of component industries had increased as had decreased. Index numbers above 50 show that more industries had increasing employment, and

values below 50 indicate that more had decreasing employment. The margin between the percent that increased and the percent that decreased is equal to the difference between the index and its complement, i.e., 100 minus the index. For example, an index of 65 percent means that 30 percent more industries had increasing employment than had decreasing employment ( $65 - (100 - 65) = 30$ ). However, for dispersion analysis, the distance of the index number from the 50-percent reference point is the most significant observation.

Although diffusion indexes are commonly interpreted as showing the percent of components that increased over the time span, it should be remembered that the index reflects half of the unchanged components as well. (This is the effect of assigning a value of 50 percent to the unchanged components when computing the index.)

### Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in construction, and nonsupervisory employees in private service-producing industries.

*Production and related workers* include working supervisors and all nonsupervisory workers (including group leaders and trainees) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping, trucking, hauling, maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with the above production operations.

*Construction workers* include the following employees in the construction division: Working supervisors, qualified craft workers, mechanics, apprentices, helpers, laborers, etc., engaged in new work, alterations, demolition, repair, maintenance, etc., whether working at the site of construction or working in shops or yards at jobs (such as precutting and preassembling) ordinarily performed by members of the construction trades.

*Nonsupervisory employees* include employees (not above the working supervisory level) such as office and clerical workers, repairers, salespersons, operators, drivers, physicians, lawyers, accountants, nurses, social workers, research aides, teachers, drafters, photographers, beauticians, musicians, restaurant workers, custodial workers, attendants, line installers and repairers, laborers, janitors, guards, and other employees at similar occupational levels whose services are closely associated with those of the employees listed.

*Payroll* covers the payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of the pay period which includes the 12th of the month. The payroll is reported before deductions of any kind, e.g., for old-age and unemployment insurance, group insurance, withholding tax, bonds, or union dues; also included is pay for overtime, holidays, vacation, and sick leave paid directly by the firm. Bonuses (unless

earned and paid regularly each pay period); other pay not earned in the pay period reported (e.g., retroactive pay); tips; and the value of free rent, fuel, meals, or other payment in kind are excluded. "Fringe benefits" (such as health and other types of insurance, contributions to retirement, etc., paid by the employer) are also excluded.

*Hours* cover the hours paid for during the pay period which includes the 12th of the month for production, construction, or nonsupervisory workers. Included are hours paid for holidays, vacations, and for sick leave when pay is received directly from the firm.

*Overtime hours* cover hours worked by production or related workers for which overtime premiums were paid because the hours were in excess of the number of hours of either the straight-time workday or the workweek during the pay period which included the 12th of the month. Weekend and holiday hours are included only if overtime premiums were paid. Hours for which only shift differential, hazard, incentive, or other similar types of premiums were paid are excluded.

*Average weekly hours.* The workweek information relates to the average hours for which pay was received and is different from standard or scheduled hours. Such factors as unpaid absenteeism, labor turnover, part-time work, and stoppages cause average weekly hours to be lower than scheduled hours of work for an establishment. Group averages further reflect changes in the workweek of component industries.

*Indexes of aggregate weekly hours.* The indexes of aggregate weekly hours are prepared by dividing the current month's aggregate by the average of the 12 monthly figures for 1977. For basic industries, the hours aggregates are the product of average weekly hours and production worker or nonsupervisory worker employment. At all higher levels of industry aggregation, hours aggregates are the sum of the component aggregates.

*Average overtime hours.* The overtime hours represent that portion of the average weekly hours which exceeded regular hours and for which overtime premiums were paid. If an employee were to work on a paid holiday at regular rates, receiving as total compensation his or her holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.

Since overtime hours are premium hours by definition, weekly hours and overtime hours do not necessarily move in the same direction from month to month; for example, overtime premiums may be paid for hours in excess of the straight-time workday although less than a full week is worked. Diverse trends at the industry group level also may be caused by a marked change in hours for a component industry where little or no overtime was worked in both the previous and current months. In addition, such factors as work stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on average hours.

*Average hourly earnings.* Average hourly earnings are on a "gross" basis. They reflect not only changes in basic hourly and incentive wage rates but also such variable factors as premium pay for overtime and late-shift work and changes in output of workers paid on an incentive plan. They also reflect shifts in the number of employees between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments. Averages for groups and divisions further reflect changes in average hourly earnings for individual industries.

Averages of hourly earnings differ from wage rates. Earnings are the actual return to the worker for a stated period of time; rates are the amount stipulated for a given unit of work or time. The earnings series do not measure the level of total labor costs on the part of the employer since the following are excluded: Irregular bonuses, retroactive items, payments of various welfare benefits, payroll taxes paid by employers, and earnings for those employees not covered under production worker, construction worker, or nonsupervisory employee definitions.

*Average hourly earnings, including lump-sum wage payments.* These series are compiled only for aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing. The same concepts and estimation methods apply to these series as apply to the average hourly earnings series described above; the one difference between the series is definitional. The payroll data used to calculate this series include lump-sum payments made to production workers in lieu of general wage rate increases; such payments are excluded from the definition of gross payrolls used to calculate the other average hourly earnings series.

For each sample establishment in SIC 3721 and SIC 3761 covered by a lump-sum agreement, the reported payroll data are adjusted to include a prorated portion of the lump-sum payment. Such payments are generally made once a year and cover the following 12-month period. In order to spread the payment across this time period, a prorated portion of the payment is added to the payroll each month. This prorated portion is adjusted by an exit rate to reduce the lump-sum amount to account for persons who received the payment but left before the payment allocation period expired.

*Average hourly earnings excluding overtime.* Average hourly earnings, excluding overtime premium pay, are computed by dividing the total production worker payroll for the industry group by the sum of total production worker hours and one-half of total overtime hours. No adjustments are made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

*Railroad hours and earnings.* The figures for Class I railroads (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC

group I) who received pay during the month. Average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees, as defined above. Average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

*Average weekly earnings.* These estimates are derived by multiplying average weekly hours estimates by average hourly earnings estimates. Therefore, weekly earnings are affected not only by changes in average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as the proportion of part-time workers, stoppages for varying reasons, labor turnover during the survey period, and absenteeism for which employees are not paid may cause the average workweek to fluctuate.

Long-time trends of average weekly earnings can be affected by structural changes in the makeup of the work force. For example, persistent long-term increases in the proportion of part-time workers in retail trade and many of the services industries have reduced average workweeks in these industries and have affected the average weekly earnings series.

*Real earnings,* or earnings in constant dollars, are calculated from the earnings averages for the current month using a deflator derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

## ESTIMATING METHODS

The principal features of the procedure used to estimate employment for the establishment statistics are (1) the use of the "link relative" technique, which is a form of ratio estimation; (2) periodic adjustment of employment levels to new benchmarks; and (3) the use of size and regional stratification.

### The "link relative" technique

From a sample composed of establishments reporting for both the previous and current months, the ratio of current-month employment to that of the previous month is computed. This is called a "link relative." The estimates of employment (all employees, including production and nonproduction workers together) for the current month are obtained by multiplying the estimates for the previous month by these link relatives. In addition, bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past benchmark comparisons. Beginning with data for April 1983, these factors are modified by changes in the sample link relatives for the most recent quarter. Other features of the general procedures are described in table L.

### Size and regional stratification

A number of industries are stratified by size of establish-

ment and/or by region, and the stratified production or non-supervisory worker data are used to weight the hours and earnings for aggregation into broader industry groupings. Accordingly, the basic estimating cell for an employment, hours, or earnings series, as the term is used in the summary of computational methods in table L, may be a whole industry or a size stratum, a region stratum, or a size stratum of a region within an industry.

### Benchmark adjustments

Employment estimates are compared periodically with

benchmarks (comprehensive counts of employment) for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1988 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by State agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonagricultural payrolls in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the

**Table L. Summary of methods for computing industry statistics on employment, hours, and earnings**

Employment, hours, and earnings	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry level (division and, where stratified, industry)
Monthly data		
All employees .	All-employee estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months. <sup>1</sup>	Sum of all-employee estimates for component cells.
Production or nonsupervisory workers, women employees .	All-employee estimate for current month multiplied by (1) ratio of production or nonsupervisory workers to all employees in sample establishments for current month, (2) estimated ratio of women to all employees. <sup>2</sup>	Sum of production or nonsupervisory worker estimates, or estimates of women employees, for component cells.
Average weekly hours .	Production or nonsupervisory worker hours divided by number of production or nonsupervisory workers. <sup>2</sup>	Average, weighted by production or nonsupervisory worker employment, of the average weekly hours for component cells.
Average weekly overtime hours .	Production worker overtime hours divided by number of production workers. <sup>2</sup>	Average, weighted by production worker employment, of the average weekly overtime hours for component cells.
Average hourly earnings .	Total production or nonsupervisory worker payroll divided by total production or nonsupervisory worker hours. <sup>2</sup>	Average, weighted by aggregate hours, of the average hourly earnings for component cells.
Average weekly earnings .	Product of average weekly hours and average hourly earnings.	Product of average weekly hours and average hourly earnings.
Annual average data		
All employees, women employees, and production or nonsupervisory workers .	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Average weekly hours .	Annual total of aggregate hours (production or nonsupervisory worker employment multiplied by average weekly hours) divided by annual sum of employment	Annual total of aggregate hours for production or nonsupervisory workers divided by annual sum of employment for these workers.
Average weekly overtime hours .	Annual total of aggregate overtime hours (production worker employment multiplied by average weekly overtime hours) divided by annual sum of employment.	Annual total of aggregate overtime hours for production workers divided by annual sum of employment for these workers.
Average hourly earnings .	Annual total of aggregate payrolls (product of production or nonsupervisory worker employment by weekly hours and hourly earnings) divided by annual aggregate hours.	Annual total of aggregate payrolls divided by annual aggregate hours.
Average weekly earnings .	Product of average weekly hours and average hourly earnings.	Product of average weekly hours and average hourly earnings.

<sup>1</sup> The estimates are computed by multiplying the above product by bias adjustment factors, which compensate for the underrepresentation of newly formed enterprises and other sources of bias in the sample.

<sup>2</sup> The sample production-worker ratio, women-worker ratio, average weekly hours, average overtime hours, and average hourly earnings are modified by

a wedging technique designed to compensate for changes in the sample arising mainly from the voluntary character of the reporting. The wedging procedure accepts the advantage of continuity from the use of the matched sample and, at the same time, tapers or wedges the estimate toward the level of the latest sample average.

Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1988 benchmark adjustment is shown in table M.

Data for all months since the last benchmark to which the series has been adjusted are subject to revision. Revised data are published as soon as possible after each benchmark revision.

## THE SAMPLE

### Design

The sampling plan used in the establishment survey is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the average size of establishments. Under this type of design, large establishments fall into the sample with certainty. The size of the sample for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a larger percent of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments, with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclu-

**Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1988**

(In thousands)

Industry	Benchmark	Estimate	Percent difference
Total . . . . .	103,835	104,161	-0.3
Mining . . . . .	711	723	-1.7
Construction . . . . .	4,686	4,787	-2.2
Manufacturing . . . . .	19,171	19,302	-.7
Transportation and public utilities . . . . .	5,437	5,473	-.7
Wholesale trade . . . . .	5,926	6,016	-1.5
Retail trade . . . . .	18,551	18,612	-.3
Finance, insurance, and real estate . . . . .	6,594	6,599	-.1
Services . . . . .	25,103	24,978	.5
Government . . . . .	17,656	17,671	-.1

sion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than do establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

In the context of the BLS establishment survey program, with its emphasis on producing timely data at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after the reference period, and, at a somewhat later date, statistics in considerably greater industrial detail.

### Coverage

The BLS sample of establishment employment and payrolls is the largest monthly sampling operation in the field of social statistics. Table N shows the latest benchmarks and the approximate proportion of total employment in each industry division covered by the group of establishments furnishing monthly employment data. The coverage for individual industries within the division may vary from the proportions shown.

**Table N. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1988**

Industry	Bench- marks (thou- sands)	Sample coverage <sup>1</sup>		
		Number of establish- ments	Employees (thou- sands)	Percent of benchmarks
Total . . . . .	103,835	262,856	38,922	37
Mining . . . . .	711	3,361	276	39
Construction . . . . .	4,686	24,924	917	20
Manufacturing . . . . .	19,171	49,889	9,483	49
Transportation and public utilities . . . . .	5,437	214,091	22,482	46
Wholesale trade . . . . .	5,926	22,810	1,062	18
Retail trade . . . . .	18,551	49,015	3,704	20
Finance, insurance, and real estate . . . . .	6,594	19,711	2,126	32
Services . . . . .	25,103	58,713	5,795	23
Government:				
Federal . . . . .	2,964	( <sup>3</sup> )	2,964	100
State . . . . .	4,151	4,883	3,406	82
Local . . . . .	10,541	15,459	6,707	64

<sup>1</sup> Counts reflect reports used in final estimates. Since not all establishments report payroll and hours information, hours and earnings estimates are based on a smaller sample than employment estimates.

<sup>2</sup> The Interstate Commerce Commission provides a complete count of employment for Class I railroads.

<sup>3</sup> Total Federal employment counts for use in national estimates are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 5,000 reports covering about 56 percent of employment in Federal establishments.

## Reliability

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a link relative technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may accumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table O presents the average percent revisions of the five most recent benchmarks for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for basic estimating cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors, which may be expressed as

**Table O. Average benchmark revision in employment estimates and relative errors for average weekly hours and average hourly earnings by industry**

(In percent)

Industry	Average benchmark revision in estimates of employment <sup>1</sup>	Relative error <sup>2</sup>	
		Average weekly hours	Average hourly earnings
Total	0.2	—	—
Total private . . . . .	.3	0.1	0.2
Mining . . . . .	2.2	1.0	1.3
Construction . . . . .	1.8	.2	.5
Manufacturing . . . . .	.7	.1	.2
Durable goods . . . . .	.7	.1	.3
Nondurable goods . . . . .	.9	.1	.2
Transportation and public utilities . . . . .	.4	.7	.6
Wholesale trade . . . . .	1.0	.2	.4
Retail trade . . . . .	.7	.2	.4
Finance, insurance, and real estate . . . . .	.3	.2	.4
Services . . . . .	.3	.4	.6
Government <sup>3</sup> . . . . .	.3	—	—

<sup>1</sup> The average percent revision in employment for the 1984-88 benchmarks.

<sup>2</sup> Relative errors relate to 1982 data.

<sup>3</sup> Estimates for government are based on a total count for Federal Government provided by the Office of Personnel Management and a sample of State and local government reports.

relative errors of the estimate. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors for major industries are presented in table O and for individual industries with the specified number of employees in table P. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

One measure of the reliability of the employment estimates for individual industries is the root-mean-square error (RMSE). The measure is the standard deviation adjusted for the bias in estimates:

$$RMSE = \sqrt{(\text{standard deviation})^2 + (\text{bias})^2}$$

If the bias is small, the chances are about 2 out of 3 that an estimate from the sample would differ from its benchmark by less than the root-mean-square error. The chances are about 19 out of 20 that the difference would be less than twice the root-mean-square error.

Approximations of the root-mean-square errors (based on the most recent benchmark revisions) of differences between final estimates and benchmarks are presented in table P.

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table Q presents root-mean-square errors of the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are normally not greater than 0.1 of an hour for weekly hours and 1 cent for hourly earnings.

## STATISTICS FOR STATES AND AREAS

State and area employment, hours, and earnings data are collected and prepared by State agencies in cooperation with BLS. The area statistics relate to metropolitan areas.

**Table P. Root-mean-square errors of differences between benchmarks and estimates of employment and average relative errors for average weekly hours and average hourly earnings**

Size of employment estimate	Root-mean-square error of employment estimates <sup>1</sup>	Relative error <sup>2</sup> (in percent)	
		Average weekly hours	Average hourly earnings
50,000 . . . . .	2,100	2.2	4.0
100,000 . . . . .	3,900	1.3	2.3
200,000 . . . . .	5,600	1.1	2.0
500,000 . . . . .	14,000	.9	1.6
1,000,000 . . . . .	15,000	.8	1.2
2,000,000 . . . . .	26,000	.5	.9

<sup>1</sup> Assuming 12-month intervals between benchmark revisions.

<sup>2</sup> Relative errors relate to 1982 data.



Definitions for all areas are published each year in the issue of *Employment and Earnings* that contains State and area annual averages (usually the May issue). Changes in definitions are noted as they occur. Additional industry detail may be obtained from the State agencies listed on the inside back cover of each issue. These statistics are based on the same

establishment reports used by BLS for preparing national estimates. For employment, the sum of the State figures may differ slightly from the equivalent official U.S. totals on a national basis, because some States have more recent benchmarks than others and because of the effects of differing industrial and geographic stratification.

**Table Q. Errors of preliminary employment estimates**

Industry	Root-mean-square error of—		Industry	Root-mean-square error of—	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Total	88,900	89,500	Nondurable goods—Continued		
Total private	61,300	58,900	Chemicals and allied products	2,600	2,800
Goods-producing industries	21,200	19,800	Petroleum and coal products	1,200	1,200
Mining	4,400	4,200	Rubber and misc. plastics products	1,600	1,600
Oil and gas extraction	3,800	3,300	Leather and leather products	1,700	1,600
Construction	14,400	15,100	Service-producing industries	85,400	85,700
General building contractors	4,900	5,100	Transportation and public utilities	14,600	13,000
Manufacturing	18,200	18,300	Transportation	16,600	16,000
Durable goods	13,700	12,300	Communication and public utilities	6,500	6,100
Lumber and wood products	2,200	2,000	Wholesale trade	8,700	7,700
Furniture and fixtures	1,700	1,600	Durable goods	5,800	5,300
Stone, clay, and glass products	1,600	1,500	Nondurable goods	5,000	4,400
Primary metal industries	4,300	4,300	Retail trade	38,600	34,400
Blast furnaces and basic steel products	3,300	3,100	General merchandise stores	22,800	20,400
Fabricated metal products	2,400	2,200	Food stores	6,800	6,000
Machinery, except electrical	5,700	6,800	Automotive dealers and service stations	4,200	5,100
Electrical and electronic equipment	4,900	4,900	Eating and drinking places	10,100	9,500
Transportation equipment	7,700	7,000	Finance, insurance, and real estate	8,700	7,600
Motor vehicles and equipment	6,500	6,600	Finance	4,100	3,900
Instruments and related products	2,100	2,200	Insurance	3,700	3,100
Miscellaneous manufacturing	1,800	1,800	Real estate	5,000	4,000
Nondurable goods	8,500	8,400	Services	36,600	34,900
Food and kindred products	5,600	5,600	Business services	11,700	10,700
Tobacco manufactures	1,500	1,400	Health services	10,200	10,000
Textile mill products	1,800	1,700	Government	59,700	53,500
Apparel and other textile products	4,500	4,000	Federal	15,900	11,300
Paper and allied products	1,600	1,400	State	22,000	20,000
Printing and publishing	2,100	2,000	Local	34,600	34,500

NOTE: Data are based on differences from December 1983 through December 1988.

## Productivity Data (Tables C-9 through C-11)

### COLLECTION

Productivity data are compiled by the Bureau of Labor Statistics from establishment and household survey labor input data and from measures of compensation and output supplied by the U.S. Department of Commerce and the Federal Reserve Board.

### CONCEPTS

*Hours* of wage and salary workers in nonagricultural establishments (table C-9) refer to hours paid for all employees—production workers, nonsupervisory workers, and salaried workers. For productivity and cost measures (tables C-10, 11), hours of all persons include hours of employees, proprietors, and unpaid family workers. Labor input is measured by hours at the work site.

*Output* is the constant-dollar market value of final goods and services produced in a given period. Indexes of *output per hour* of all persons (productivity) measure changes in the volume of goods and services produced per hour at work.

*Compensation per hour* includes wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and supplementary payments for the self-employed, except for nonfinancial corporations, in which there are no self-employed.

*Real compensation per hour* is compensation per hour adjusted by the Consumer Price Index for All Urban Consumers (CPI-U).

*Unit labor costs* measure the labor compensation cost required to produce one unit of output and are derived by dividing compensation per hour by output per hour.

*Unit nonlabor payments* include profits, capital consump-

tion allowances, interest, rental income of persons, and indirect taxes per unit of output. They are computed by subtracting compensation of all persons from the current-dollar gross product originating in the sector and dividing by output. In these tables, *unit nonlabor costs* contain all the components of unit nonlabor payments except unit profits.

*Unit profits* include corporate profits and inventory valuation and capital consumption adjustments per unit of output.

The *implicit price deflator* is derived by dividing the current-dollar estimate of gross product by the constant-dollar estimate, making the deflator, in effect, a price index for gross product of the sector reported.

### NOTES ON THE DATA

For the business sector and the nonfarm business sector, these indexes relate to the gross domestic product less general government, households and institutions, owner-occupied housing, and the statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the gross domestic product of nonfinancial corporate business. All measures are seasonally adjusted.

Manufacturing output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis.

Compensation and hours data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics. Historical statistics for most productivity measures appear in *Trends in Multifactor Productivity, 1948-81*, BLS Bulletin 2178. Additional information may be obtained from the Office of Productivity and Technology (202-523-9261).

## State and Area Labor Force Data (D table)

### FEDERAL-STATE COOPERATIVE PROGRAM

Labor force and unemployment estimates for States, labor market areas (LMA's), and other areas covered under Federal assistance programs are developed by State employment security agencies under a Federal-State cooperative program. The local unemployment estimates which are derived from standardized procedures developed by BLS are the basis for determining eligibility of an area for benefits under Federal programs such as the Job Training and Partnership Act, the Economic Dislocation and Worker Adjustment Assistance Act, and the Urban Development Action Grant program.

Annual average data for the States and areas shown in table

D are published in *Employment and Earnings* (usually the May issue). For regions, States, selected metropolitan areas, and central cities, annual average data classified by selected demographic, social, and economic characteristics are published in the BLS bulletin, *Geographic Profile of Employment and Unemployment*.

Labor force estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The report "Unemployment in States and Local Areas" is published monthly through GPO and is available in microfiche form only, on a subscription basis.

## ESTIMATING METHODS

Monthly labor force, employment, and unemployment estimates are prepared for the 50 States, the District of Columbia, and over 2,600 labor market areas. The estimation methods are described below for States (and the District of Columbia) and for sub-State areas. A more detailed description of the estimation procedure is contained in the BLS document, "Manual for Developing Local Area Unemployment Statistics."

### Estimates for States

*Current monthly estimates.* The civilian labor force and unemployment estimates for the 11 largest States—California, Florida, Illinois, Massachusetts, Michigan, New Jersey, New York, North Carolina, Ohio, Pennsylvania, and Texas—are sufficiently reliable to be taken directly from the Current Population Survey (CPS) on a monthly basis. These are termed "direct-use States." For a description of the CPS concepts, see "Household Data," above.

For the 39 smaller States and the District of Columbia, which do not use the CPS directly each month, regression models (sets of equations) are used to develop employment and unemployment estimates. These, then, are the "non-direct-use" States. The regression techniques are based on historical and current relationships found within each State's economy as reflected in the different sources of data that are available for each State—the CPS, the Current Employment Statistics (CES) survey, and the unemployment insurance (UI) system. When the estimation procedures were introduced in 1989, over 10 years of data were used to develop the equations for each State. While all the State models have important variables in common, they differ somewhat from one another so as to better reflect individual State characteristics.

Two models—one for employment and one for the unemployment rate—are used for each State. The unemployment rate, rather than the unemployment level, is modeled, primarily because the rate is usually more meaningful for economic analysis.

The employment models use the CES estimates of nonfarm wage and salary jobs and also include data for employed persons not covered or only partially covered by the CES survey. Typically, these are agricultural workers, the self-employed, unpaid family workers, and private household workers.

The unemployment rate models also include different types of data. Data for UI claimants (without earnings due to employment) are used to represent most of the experienced unemployed. The models also include an employment-to-population ratio which reflects both the business cycle and the experienced unemployed not covered by the UI claims data. New entrants and reentrants into the labor force are also reflected in the models. For some States, the models include variables which reflect seasonal factors not reflected in the other data used, such as the large increase in the labor force at the end of the school year.

In both the employment and unemployment rate models,

an important feature is the use of a technique that allows the equations to adjust automatically to structural changes that occur. The models are termed "variable coefficient models" because they include a built-in tuning mechanism, known as the Kalman Filter, which revises a model's coefficients when the new data that become available each month indicate that changes in the data relationships have taken place. Once the estimates are developed from the models, the unemployment level and labor force estimates are calculated.

*Benchmark correction procedures.* Once each year, monthly estimates for the 39 non-direct-use States and the District of Columbia are adjusted, or benchmarked, by BLS to the annual average CPS estimates. The benchmarking technique employs a procedure (called the Denton method) which adjusts the annual average of the models to equal the CPS annual average, while preserving, as much as possible, the original monthly seasonal pattern of the model estimates.

In the 11 direct-use States, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal the CPS annual averages.

### Estimates for sub-State areas

Monthly labor force and employment estimates for two large sub-state areas—New York City and the Los Angeles-Long Beach metropolitan area—are obtained directly from the CPS. Estimates for all other sub-state areas, more than 2,600 labor market areas (LMA's), are prepared through indirect estimation techniques, described below.

*Preliminary estimate—employment.* The total civilian employment estimates are based on CES data. These "place-of-work" estimates must be adjusted to refer to place-of-residence as used in the CPS. Factors for adjusting from place-of-work to place-of-residence have been developed for several categories of employment on the basis of employment relationships at the time of the 1980 decennial census. These factors are applied to the CES estimates for the current period to obtain adjusted employment estimates, to which are added estimates for employment not represented in the CES—agriculture, nonagricultural self-employed and unpaid family workers, and private household workers.

*Preliminary estimate—unemployment.* In the current month, the estimate of unemployment is an aggregate of the estimates for each of three categories: (1) persons who were previously employed in industries covered by State UI laws; (2) those previously employed in industries not covered by these laws; and (3) those who were entering the civilian labor force for the first time or reentering after a period of separation.

*Sub-State adjustment for additivity.* Estimates of employment and unemployment are prepared for the State and LMA's within the State. The LMA estimates geographically exhaust the entire State. Thus, a proportional adjustment must be applied to all sub-State LMA estimates to ensure that they add to the independently estimated State totals for employment and unemployment.

*Benchmark correction.* At the end of each year, sub-State estimates are revised. The revisions incorporate any changes in the inputs, such as revisions in the CES-based employment figures, corrections in claims counts, and updated historical

relationships. The corrected estimates are then readjusted to add to the revised (benchmarked) State estimates of employment and unemployment.

## Seasonal Adjustment

Over the course of a year, the size of the Nation's labor force, the levels of employment and unemployment, and other measures of labor market activity undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make it easier to observe the cyclical and other nonseasonal movements in the series. In evaluating 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 are also affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment-based data are published monthly in *Employment and Earnings*.

Since January 1980, national labor force data have been seasonally adjusted with a procedure called *X-11 ARIMA* (Auto-Regressive Integrated Moving Average), which was developed at Statistics Canada as an extension of the standard X-11 method. A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method* by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564E, January 1983.

At the beginning of each calendar year, projected seasonal adjustment factors are calculated for use during the January–June period. In July of each year, BLS calculates and publishes in *Employment and Earnings* projected seasonal adjustment factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years are made only at the beginning of each calendar year. However, as a result of the revisions to the estimates for 1970–81 based on 1980 census population counts, revisions to seasonally adjusted series in early 1982 were carried back to 1970.

All labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment—data for four sex-age groups (men and women under and over 20 years of age)

are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. The seasonally adjusted figure for the labor force is a sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force. Because of the independent seasonal adjustment of various series, components will not necessarily add to totals.

Revised seasonally adjusted data for selected labor force series based on the experience through December, new seasonal adjustment factors to be used to calculate the civilian unemployment rate for the first 6 months of the following year, and a description of the current seasonal adjustment procedure are published in each January issue of *Employment and Earnings*. Revised seasonally adjusted data covering the revision period for a broader range of labor force series are published in the February issue of this publication.

Since the early 1980's, the BLS has also used the X-11 ARIMA procedure to seasonally adjust establishment-based employment, hours, and earnings data. The X-11 ARIMA program has been run once each year after benchmarking and seasonal adjustment factors have been projected and published for 12 months ahead (April–March). Beginning in June 1989, with the introduction of the March 1988 benchmarks, the Bureau introduced a modification to this procedure to parallel that used in seasonally adjusting household survey data. Projected seasonal adjustment factors are calculated and published twice a year. Revisions of historical data will continue to be made once a year, coincident with benchmark revisions.

All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series.

Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and

multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1977 base. For total private, total goods-producing, total private service-producing, and major industry divisions, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1977 base.

Seasonally adjusted data are not published for a number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. These failed or unsatisfactory seasonally adjusted series, however, are used in the aggregation to broader level seasonally adjusted series.

Seasonal adjustment factors for Federal Government

employment are derived from unadjusted data which include Christmas temporary workers employed by the Postal Service. The number of temporary census takers for the 1980 decennial census, however, are removed prior to the calculation of seasonal adjustment factors.

BLS has developed an extension of X-11 ARIMA to allow it to adjust more adequately for the effects of the presence or absence of religious holidays in the April survey reference period and of Labor Day in the September reference period. This extension was applied for the first time at the end of 1989 to three persons-at-work labor force series which tested as having significant and well-defined effects in their April data associated with the timing of Easter. This extension was also used for the seasonal adjustment of many of the establishment-based series on average weekly hours and manufacturing overtime hours, starting with the computation of the projected factors for the period beginning in April 1990.

**U.S. DEPARTMENT OF LABOR  
Bureau of Labor Statistics**

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	X IDAHO Department of Employment, 317 Main St., Boise 83735	III PENNSYLVANIA Department of Labor and Industry, Research and Statistics Division, Room 1216, 7th and Forster Sts., Harrisburg 17121
	V ILLINOIS Department of Employment Security, (2 South), 401 South State St., Chicago 60605	II PUERTO RICO Department of Labor and Human Resources, Bureau of Labor Statistics, 17th Fl., 505 Munoz Rivera Avenue, Hato Rey 00918 (CES), Bureau of Employment Security, Research and Analysis Section, 15th Fl., 505 Munoz Rivera Avenue, Hato Rey 00918 (LAUS)
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	VII IOWA Department of Employment Services, 1000 East Grand Avenue, Des Moines 50319	IV SOUTH CAROLINA Employment Security Commission, Labor Market Information Division, P.O. Box 995, Columbia 29202
	VII KANSAS Department of Human Resources, 401 Topeka Avenue, Topeka 66603	VIII SOUTH DAKOTA Department of Labor, Labor Market Information Center, P.O. Box 4730, Aberdeen 57401
	IV KENTUCKY Department for Employment Services, Labor Market Research and Analysis Branch, 275 East Main St., Frankfort 40621	IV TENNESSEE Department of Employment Security, Research and Statistics Division, 519 Cordell Hull Office Bldg., Nashville 37219
	VI LOUISIANA Department of Labor, Research and Statistics Section, 1001 North 23rd St., Baton Rouge 70804-9094	VI TEXAS Employment Commission, Room 208-T, 1117 Trinity St., Austin 78778
	I MAINE Department of Labor, Division of Economic Analysis and Research, 20 Union St., Augusta 04330	VIII UTAH Department of Employment Security, Labor Market Information Services, P.O. Box 11249, Salt Lake City 84147
	III MARYLAND Department of Employment and Training, Research and Analysis Division, 1100 North Eutaw St., Baltimore 21201	I VERMONT Department of Employment and Training, Office of Policy and Public Information, P.O. Box 488, Montpelier 05602
	I MASSACHUSETTS Department of Employment and Training, Government Center, Charles F. Hurley Bldg., Boston 02114	III VIRGINIA Employment Commission, Economic Information Services, P.O. Box 1358, Richmond 23211
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	IV MISSISSIPPI Employment Security Commission, Labor Market Information Division, P.O. Box 1699, Jackson 39215-1699	III WEST VIRGINIA Department of Employment Security, Division of Labor and Economic Security, 112 California Avenue, Charleston 25305
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