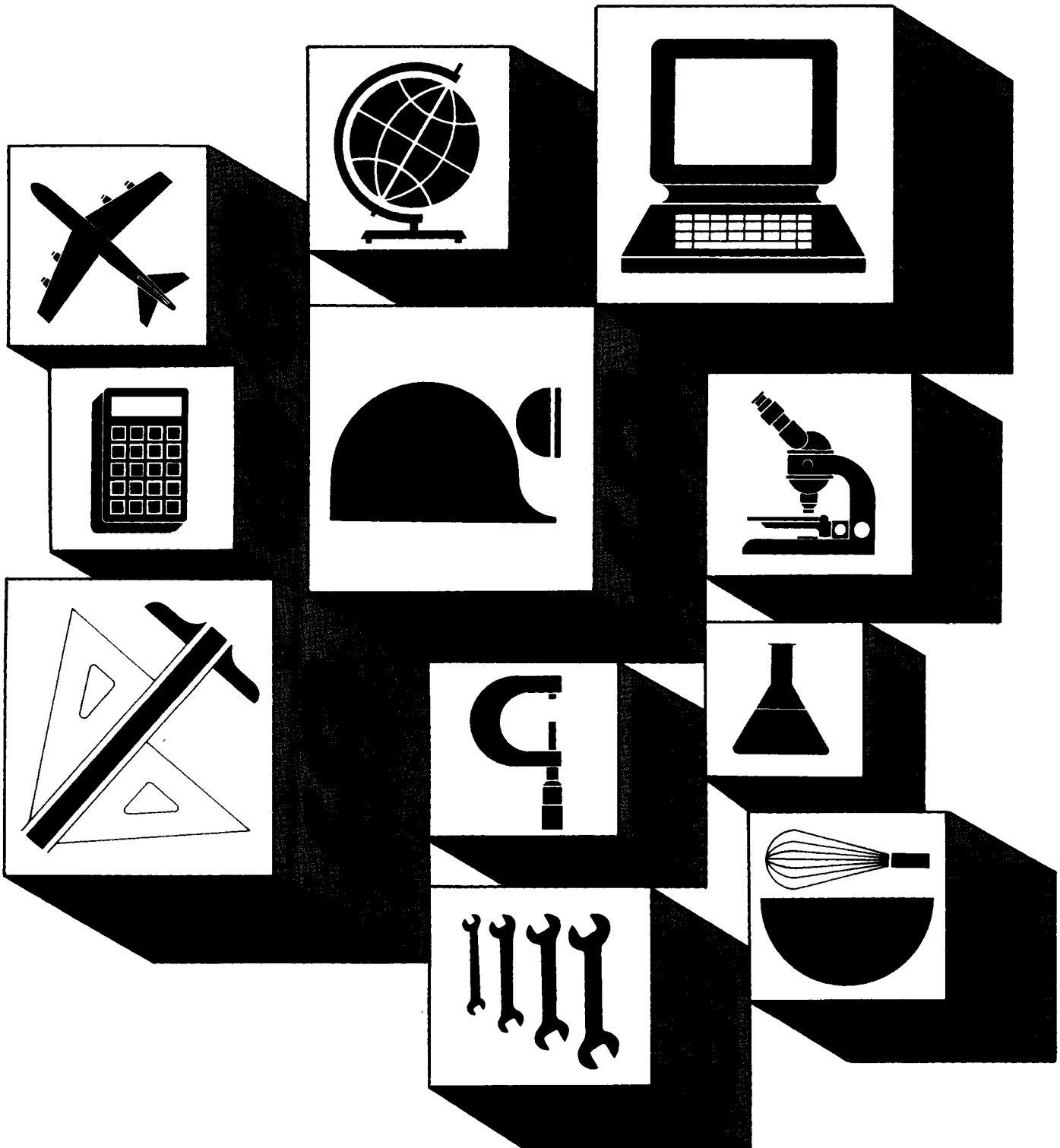




EMPLOYMENT AND EARNINGS

U.S. Department of Labor
Bureau of Labor Statistics
November 1989





U.S. DEPARTMENT OF LABOR
Elizabeth Dole, Secretary

BUREAU OF LABOR STATISTICS
Janet L. Norwood, *Commissioner*

Employment and Earnings is prepared in the Office of Employment and Unemployment Statistics in collaboration with the Office of Publications. The data are collected by the Bureau of the Census (Department of Commerce) and State employment security agencies, in cooperation with the Bureau of Labor Statistics. A brief description of the cooperative statistical programs of the BLS with these agencies is presented in the Explanatory Notes. The State agencies are listed on the inside back cover.

Employment and Earnings may be ordered through the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Subscription price per year \$25 domestic and \$31.25 foreign. Single copy \$8.50 domestic and \$10.63 foreign. Annual supplement \$14 domestic and \$17.50 foreign. Prices are subject to change by the U.S. Government Printing Office.

Correspondence concerning subscriptions, including address changes and missing issues, should be sent to the Superintendent of Documents. Phone (202) 275-3054. Communications on material in this publication should be addressed to: Editors, *Employment and Earnings*, Bureau of Labor Statistics, Washington, DC 20212, or phone: Gloria P. Green (202) 523-1959.

Second class postage paid at Washington, DC, and at additional mailing addresses.

Material in this publication is in the public domain and, with appropriate credit, may be reproduced without permission.

ISSN 0013-6840

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.
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
Revised historical national data	Supplement ¹
State and area annual averages	May
Area definitions	May

State and area labor force data

Annual averages	May
-----------------	-----

¹ The latest supplement was published in August 1989.

Employment and Earnings

Vol. 36 No. 11 November 1989

Editors: Gloria Peterson Green, Rosalie K. Epstein

Contents

	<i>Page</i>
List of statistical tables	2
Employment and unemployment developments, October 1989	5
New seasonal adjustment factors for the establishment data series	6
Statistical tables:	
Historical—	
Household data	12
Establishment data:	
Employment	49
Hours and earnings	87
Not seasonally adjusted—	
Household data	15
Establishment data:	
Employment:	
National	50
State and area	68
Hours and earnings:	
National	90
State and area	112
State and area labor force data	119
Seasonally adjusted—	
Household data	42
Establishment data:	
Employment	62
Hours and earnings	109
Productivity data	116
Explanatory notes	125

MONTHLY HOUSEHOLD DATA

Page

Employment Status

A- 1.	Employment status of the noninstitutional population 16 years and over, 1955 to date	12
A- 2.	Employment status of the noninstitutional population 16 years and over by sex, 1978 to date .	13
A- 3.	Employment status of the civilian noninstitutional population 16 years and over, 1955 to date .	14
A- 4.	Employment status of the civilian noninstitutional population by age, sex, and race	15
A- 5.	Employment status of the black-and-other civilian noninstitutional population by age and sex .	18
A- 6.	Employment status of the civilian noninstitutional population by race, sex, and age	19
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 .	20
A- 8.	Employment status of male Vietnam-era veterans and nonveterans by age .	22
A- 9.	Employed and unemployed full- and part-time workers by sex, age, and race	23
A-10.	Employment status of persons in families by family relationship .	24

Characteristics of the Unemployed

A-11.	Unemployed persons by marital status, race, age, and sex .	25
A-12.	Unemployed persons by occupation and sex	26
A-13.	Unemployed persons by industry and sex	27
A-14.	Unemployed persons by reason for unemployment, sex, and race	28
A-15.	Unemployed persons by reason for unemployment, sex, age, and duration of unemployment .	29
A-16.	Unemployed persons by duration of unemployment	29
A-17.	Unemployed persons by sex, age, race, marital status, and duration of unemployment .	30
A-18.	Unemployed persons by occupation, industry, and duration of unemployment .	31
A-19.	Unemployed jobseekers by sex, age, race, and jobsearch methods used	32
A-20.	Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used .	32

Characteristics of the Employed

A-21.	Employed civilians in agriculture and nonagricultural industries by age and sex .	33
A-22.	Employed civilians by occupation, sex, and age .	34
A-23.	Employed civilians by occupation, race, and sex . .	35
A-24.	Employed civilians by age, sex, and class of worker .	36
A-25.	Employed civilians by industry and occupation	37
A-26.	Employed civilians with a job but not at work by reason, sex, and pay status .	37
A-27.	Persons at work by hours of work and type of industry	38
A-28.	Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry, and usual status	38
A-29.	Persons at work in nonagricultural industries by class of worker and full- or part-time status .	39
A-30.	Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status	40
A-31.	Persons at work in nonfarm occupations by sex and full- or part-time status .	41

Seasonally Adjusted Employment and Unemployment Data

A-32.	Employment status of the noninstitutional population, including Armed Forces stationed in the United States, by sex, seasonally adjusted	42
A-33.	Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted .	43
A-34.	Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted	44
A-35.	Employed civilians by selected social and economic categories, seasonally adjusted .	45
A-36.	Employed civilians by sex and age, seasonally adjusted . .	46
A-37.	Unemployed persons by sex and age, seasonally adjusted .	46
A-38.	Unemployment rates by sex and age, seasonally adjusted .	47
A-39.	Selected unemployment indicators, seasonally adjusted	47
A-40.	Unemployed persons by duration of unemployment, seasonally adjusted .	48
A-41.	Unemployed persons by reason for unemployment, seasonally adjusted .	48

MONTHLY ESTABLISHMENT DATA

Page

Employment--National

B- 1.	Employees on nonagricultural payrolls by major industry, 1937 to date .	49
B- 2.	Employees on nonagricultural payrolls by detailed industry	50
B- 3.	Women employees on nonagricultural payrolls by major industry and manufacturing group .	61
B- 4.	Employees on nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	62
B- 5.	Women employees on nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	63
B- 6.	Production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	64
B- 7.	Diffusion indexes of employment change, seasonally adjusted .	65

Employment--States and Areas

B- 8.	Employees on nonagricultural payrolls in States and selected areas by major industry .	68
-------	--	----

Hours and Earnings--National

C- 1.	Average hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls by major industry, 1964 to date	87
C- 2.	Average hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls by detailed industry	90
C- 2a.	Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing	106
C- 3.	Average hourly earnings, excluding overtime, of production workers on manufacturing payrolls .	107
C- 4.	Average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls by major industry, in current and constant (1977) dollars	108
C- 5.	Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	109
C- 6.	Indexes of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted .	110
C- 7.	Average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted .	111

Hours and Earnings--States and areas

C- 8.	Average hours and earnings of production workers on manufacturing payrolls in States and selected areas .	112
-------	--	-----

PRODUCTIVITY DATA

C- 9.	Hours of wage and salary workers in nonagricultural establishments by major industry, seasonally adjusted	116
C-10.	Indexes of productivity, hourly compensation, unit costs, and prices, seasonally adjusted .	117
C-11.	Percent changes from the preceding quarter and year in productivity, hourly compensation, unit costs, and prices, seasonally adjusted annual rates	118

MONTHLY STATE AND AREA LABOR FORCE DATA

D- 1.	Labor force status by State and selected metropolitan areas .	119
-------	---	-----

Scheduled Release Dates			
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>
November	December 8	February	March 9
December	January 5	March	April 6
January	February 2	April	May 4

Employment and Unemployment Developments, October 1989

Nonfarm payroll employment rose moderately in October and unemployment was unchanged. The overall jobless rate remained at 5.2 percent, and the civilian worker rate remained at 5.3 percent.

The number of employees on nonagricultural payrolls, as measured by the survey of business establishments, rose by 235,000, with most of the growth occurring in government and services. Total civilian employment, as measured by the survey of households, was essentially unchanged.

Unemployment

The number of unemployed persons, at 6.6 million, and the civilian worker unemployment rate, 5.3 percent, were unchanged in October. Both measures have shown little movement since September 1988. The unemployment rate for adult men edged down to 4.5 percent in October, and that for adult women edged up to 4.7 percent, returning both rates to about their August values. Jobless rates were essentially unchanged for teenagers (14.9 percent), whites (4.4 percent), blacks (11.8 percent), and Hispanics (7.9 percent). (See tables A-33 and A-34.)

Civilian employment and the labor force

Total civilian employment was about unchanged in October, at a seasonally adjusted level of 117.5 million. Although employment has changed little since June, it is about 2 million higher than a year earlier. The employment-population ratio, at 62.9 percent in October, has also changed little over the past several months, but is well above last October's 62.4 percent. (See table A-33.)

The seasonally adjusted civilian labor force was unchanged in October, at 124.1 million, and has shown no growth since June. The civilian labor force participation rate, 66.4 percent, remained at the September level. (See table A-33.)

Industry payroll employment

Total nonagricultural payroll employment increased by 235,000 in October to 109.3 million, seasonally adjusted. Employment growth continued in the service-producing sector, while the number of goods-producing jobs was unchanged over the month, following a sharp decline in September. (See table B-4.) Within the goods sector, factory employment was little changed in October at 19.5 million,

after falling sharply in the prior month. However, employment in durable goods continued to decline. This was led by a drop of 15,000 jobs in the auto industry; since January, employment in that industry has decreased by 50,000. Employment in fabricated metal products and electrical equipment also continued to trend downward. An over-the-month decline in the machinery industry primarily reflected a strike. In contrast, there were small over-the-month employment gains in several nondurable goods industries. Jobs in the oil and gas extraction component of the mining industry continued to edge up, while the number of construction jobs was about unchanged.

In the service-producing sector, the largest over-the-month gain occurred in local government (95,000), primarily in local education. Another major component of the overall increase was the services industry itself, where employment rose by 85,000, partly reflecting continued strong gains in health services. Employment in the transportation industry rose by 25,000 in October, while the number of wholesale and retail trade jobs was little changed over the month.

Weekly hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls edged up by 0.1 hour in October to 34.8 hours, seasonally adjusted. However, the manufacturing workweek, at 40.8 hours, was down 0.3 hour; this was due in part to declines in the aircraft industry, where a strike affected hours at work but not the employment counts (because the strike started after the pay period began). Factory overtime was unchanged at 3.8 hours. (See table C-5.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls increased by 0.5 percent to 129.4 (1977 = 100), after seasonal adjustment. The index for manufacturing fell 0.6 percent to 95.3. (See table C-6.)

Hourly and weekly earnings

Average hourly earnings of private nonagricultural production or nonsupervisory workers increased 0.7 percent in October, seasonally adjusted, while average weekly earnings rose by 1 percent. Prior to seasonal adjustment, average hourly earnings increased by 6 cents to \$9.83 and average weekly earnings, at \$343.07, were up \$3.07. Over the year, both average hourly and weekly earnings increased 4 percent. (See tables C-1 and C-7.)

New Seasonal Adjustment Factors for the Establishment Data Series

*Fred R. Cronkhite

Prior to 1989, the Bureau of Labor Statistics computed and published factors once a year for use in the seasonal adjustment of the establishment-based employment, hours, and earnings data for all months of the year. The new standard practice, initiated earlier this year, is to compute and publish factors twice a year for these data. Factors for April to September 1989 were published in the June 1989 issue of *Employment and Earnings*. Factors released with this issue are for the period October 1989 to March 1990. Historical seasonally adjusted data for all series will continue to be revised and published on an annual basis, with the release of the March benchmark levels.

The seasonal adjustment factors provided herein were derived using data through September 1989. The factors for all published series are shown in tables 1 through 6. For a small number of 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 can be found in the January 1989 issue of *Employment and Earnings* in an article entitled "Revision of Seasonally Adjusted Labor Force Series." Additional information on the establishment series can be found in the June issue of this publication in the article "BLS Establishment Estimates Revised to March 1988 Benchmarks."

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 for many series 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	1989			1990		
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total¹						
Mining	101.2	101.0	100.2	98.4	97.8	98.2
Oil and gas extraction	100.9	101.1	101.1	99.9	98.7	98.5
Construction	104.8	102.6	98.8	91.9	90.1	92.1
General building contractors	104.2	102.5	100.0	93.8	91.9	93.3
Manufacturing¹						
Durable goods¹						
Lumber and wood products	101.4	100.2	98.9	96.9	97.0	97.4
Furniture and fixtures ²	100.9	101.2	101.0	100.3	100.1	99.9
Stone, clay, and glass products	101.3	100.7	99.0	96.6	96.2	97.7
Primary metal industries	99.8	100.1	100.2	100.1	100.0	100.2
Blast furnaces and basic steel products	99.4	99.7	100.0	100.0	99.7	100.0
Fabricated metal products	100.6	100.6	100.6	99.8	99.7	99.7
Machinery, except electrical ²	99.8	99.9	100.3	100.1	100.2	100.2
Electrical and electronic equipment	100.4	100.5	100.6	100.2	99.8	99.6
Transportation equipment	100.1	100.7	101.0	99.9	100.1	100.0
Motor vehicles and equipment	100.3	101.1	101.6	99.0	99.9	100.0
Instruments and related products	99.9	100.1	100.4	99.9	99.8	99.9
Miscellaneous manufacturing	102.3	101.9	99.7	97.6	98.6	99.5
Nondurable goods¹						
Food and kindred products ²	102.7	101.1	99.4	97.2	96.7	96.6
Tobacco manufactures	106.0	103.3	106.1	104.6	101.8	98.0
Textile mill products	100.4	100.4	100.2	99.6	99.8	99.8
Apparel and other textile products	100.8	100.6	99.9	99.2	100.1	100.3
Paper and allied products	100.2	100.2	100.2	99.5	99.3	99.5
Printing and publishing	99.9	100.4	100.5	99.9	100.0	100.1
Chemicals and allied products	99.9	99.8	99.7	99.4	99.5	99.7
Petroleum and coal products	100.8	100.2	98.8	97.9	97.3	98.0
Rubber and miscellaneous plastics products	100.2	100.2	100.2	99.7	100.0	100.2
Leather and leather products	101.2	101.4	100.2	98.9	99.2	99.4
Transportation and public utilities¹						
Transportation	101.4	101.2	101.4	98.5	98.3	98.7
Communication and public utilities	99.9	99.9	99.8	99.5	99.4	99.5
Wholesale trade¹						
Durable goods	100.1	100.0	100.0	99.5	99.4	99.6
Nondurable goods	100.8	100.4	100.1	98.8	98.7	99.0
Retail trade	100.2	101.5	103.2	98.5	97.4	97.9
General merchandise stores	100.5	106.6	112.1	102.7	97.1	96.4
Food stores	100.2	101.1	102.1	99.5	99.0	98.8
Automotive dealers and service stations	100.3	99.8	99.5	98.8	98.6	99.0
Eating and drinking places	100.1	99.4	99.4	95.2	95.8	97.4
Finance, insurance, and real estate¹						
Finance	99.6	99.7	99.9	99.8	99.7	99.8
Insurance	99.8	99.9	100.0	99.8	99.9	99.9
Real estate	100.0	99.2	98.9	96.3	96.2	97.1
Services	100.4	99.9	99.6	98.2	98.9	99.6
Business services	101.0	100.6	100.5	98.3	98.3	98.9
Health services	100.0	99.9	99.9	99.7	99.8	99.9
Government¹						
Federal	99.5	99.6	100.0	99.4	99.5	99.8
State	102.5	103.0	102.1	99.1	102.2	102.7
Local	101.3	102.7	102.1	100.4	102.0	102.5

¹ Seasonally adjusted data are derived by aggregation of the component series.

² 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	1989			1990		
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total¹						
Mining	99.8	99.8	100.3	99.2	98.9	99.6
Construction²	101.2	100.7	99.7	97.6	97.1	97.8
Manufacturing¹						
Durable goods¹						
Lumber and wood products	101.0	99.6	99.0	97.8	97.6	98.4
Furniture and fixtures	100.6	101.1	101.2	100.5	100.2	100.4
Stone, clay, and glass products	100.2	99.9	99.8	98.6	98.5	99.1
Primary metal industries	100.2	100.3	99.9	99.6	99.8	100.2
Fabricated metal products	100.6	100.7	100.5	99.8	99.6	99.7
Machinery, except electrical	99.7	99.9	100.2	100.1	100.2	100.1
Electrical and electronic equipment	100.8	100.9	100.8	100.1	99.7	99.5
Transportation equipment	100.1	100.5	100.6	100.1	100.0	99.8
Instruments and related products	99.9	100.2	100.4	100.0	100.0	99.9
Miscellaneous manufacturing	103.8	102.9	99.5	96.5	97.8	99.1
Nondurable goods¹						
Food and kindred products ²	104.5	102.0	99.5	95.6	95.2	94.9
Tobacco manufactures	109.6	106.6	107.7	105.3	102.9	96.9
Textile mill products	100.4	100.5	100.1	99.3	99.5	99.8
Apparel and other textile products	100.8	100.6	99.9	99.3	100.3	100.5
Paper and allied products	100.5	100.6	100.2	98.7	98.4	98.9
Printing and publishing	99.8	100.3	100.3	99.9	99.9	100.1
Chemicals and allied products	100.0	99.7	99.5	99.2	99.3	99.5
Petroleum and coal products	(³)	(³)	(³)	(³)	(³)	(³)
Rubber and miscellaneous plastics products	100.5	100.5	100.5	100.0	99.9	100.2
Leather and leather products	101.8	101.7	99.9	98.6	98.8	99.0
Transportation and public utilities	100.8	100.6	100.6	99.6	99.5	99.7
Wholesale trade	100.8	100.7	100.6	99.4	99.4	99.5
Retail trade	100.5	102.4	104.6	98.7	97.1	97.5
Finance, insurance, and real estate	99.7	99.8	100.0	99.5	99.5	99.7
Services	100.4	100.1	100.0	98.9	99.6	100.1
Government¹						
Federal	99.5	99.6	99.8	99.2	99.4	99.7
State	102.6	103.2	102.4	99.6	102.7	103.0
Local	102.4	104.1	103.2	101.6	103.3	103.8

¹ Seasonally adjusted data are derived by aggregation of the component series.

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

³ 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 workers¹ on private nonagricultural payrolls by industry

Industry	1989			1990		
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total private²						
Mining	101.6	101.8	100.8	98.1	97.4	97.7
Construction	106.2	103.3	98.5	89.7	87.9	90.2
Manufacturing²						
Durable goods²						
Lumber and wood products	101.4	100.2	98.9	96.6	96.8	97.1
Furniture and fixtures	101.0	101.4	101.3	100.5	100.2	100.1
Stone, clay, and glass products	101.6	100.8	98.8	95.9	95.5	97.3
Primary metal industries	99.9	100.2	100.2	100.1	99.9	100.3
Blast furnaces and basic steel products	98.6	98.9	99.3	99.7	99.6	100.4
Fabricated metal products	100.8	100.8	100.6	99.7	99.6	99.7
Machinery, except electrical ³	99.8	100.0	100.4	100.3	100.3	100.5
Electrical and electronic equipment	100.8	100.9	100.9	100.4	99.9	99.5
Transportation equipment	100.1	101.0	101.4	100.1	100.5	100.2
Motor vehicles and equipment	100.5	101.6	102.0	99.1	99.9	100.2
Instruments and related products	99.8	100.2	100.5	99.8	99.9	100.0
Miscellaneous manufacturing	102.9	102.6	99.4	96.7	98.2	99.2
Nondurable goods²						
Food and kindred products	103.6	101.5	99.2	96.3	95.9	95.7
Tobacco manufactures	107.7	104.9	108.3	105.8	102.6	97.6
Textile mill products	100.3	100.3	100.0	99.6	99.7	99.9
Apparel and other textile products	100.9	100.8	99.8	99.1	100.1	100.5
Paper and allied products	100.2	100.2	100.2	99.4	99.3	99.5
Printing and publishing	99.8	100.5	100.8	99.9	99.9	100.1
Chemicals and allied products	99.7	99.5	99.6	99.1	99.6	99.8
Petroleum and coal products	101.5	100.3	98.5	97.0	96.2	97.1
Rubber and miscellaneous plastics products	100.2	100.4	100.3	99.6	100.1	100.4
Leather and leather products	101.4	101.5	100.0	98.9	99.2	99.1
Transportation and public utilities	100.9	100.8	100.9	98.8	98.6	98.9
Wholesale trade	100.4	100.2	100.0	99.0	98.9	99.2
Retail trade	100.4	101.6	103.5	98.4	97.2	97.7
Finance, insurance, and real estate	99.7	99.6	99.8	98.8	98.7	99.0
Services	100.4	99.9	99.6	98.0	98.9	99.6

¹ 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.

² Seasonally adjusted data are derived by aggregation of the component series.

³ 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 workers¹ on private nonagricultural payrolls by industry

Industry	1989			1990		
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total private²						
Mining	(³)	(³)	(³)	(³)	(³)	(³)
Construction	(³)	(³)	(³)	(³)	(³)	(³)
Manufacturing²						
Durable goods²						
Lumber and wood products ⁴	100.5	99.4	100.3	98.4	98.8	99.4
Furniture and fixtures	101.7	101.1	102.9	99.1	98.5	99.6
Stone, clay, and glass products	101.3	100.3	99.7	97.8	97.4	99.2
Primary metal industries	99.8	100.5	101.4	100.2	100.0	100.2
Blast furnaces and basic steel products ⁴	99.3	100.1	101.0	100.0	99.8	99.9
Fabricated metal products	100.2	101.0	102.2	100.3	99.4	99.8
Machinery, except electrical	99.9	100.6	102.3	100.3	99.8	100.2
Electrical and electronic equipment	100.2	101.1	102.5	100.6	99.3	99.6
Transportation equipment	100.2	101.2	101.7	100.3	100.0	100.8
Motor vehicles and equipment	100.2	101.3	101.7	100.1	100.1	101.2
Instruments and related products	99.9	100.9	102.1	100.3	99.9	100.3
Miscellaneous manufacturing	101.1	101.3	101.7	99.6	99.3	99.9
Nondurable goods²						
Food and kindred products	100.7	100.9	101.4	99.5	98.2	98.5
Tobacco manufactures	(³)	(³)	(³)	(³)	(³)	(³)
Textile mill products	100.5	100.9	101.1	99.3	99.2	99.6
Apparel and other textile products	100.5	100.8	101.0	99.3	99.4	99.9
Paper and allied products	100.2	100.6	101.9	100.1	99.3	99.3
Printing and publishing	100.3	100.6	101.7	99.3	99.4	100.2
Chemicals and allied products	99.7	100.6	101.3	100.1	99.8	100.0
Petroleum and coal products	(³)	(³)	(³)	(³)	(³)	(³)
Rubber and miscellaneous plastics products	100.2	100.7	101.8	100.4	99.7	99.9
Leather and leather products	100.5	100.0	101.4	99.4	98.2	98.8
Transportation and public utilities⁴	100.2	100.1	100.1	99.2	99.3	99.5
Wholesale trade	100.4	100.0	100.4	99.6	99.3	99.5
Retail trade	99.7	99.3	101.6	97.5	97.9	98.5
Finance, insurance, and real estate	(³)	(³)	(³)	(³)	(³)	(³)
Services	100.0	99.9	99.8	99.6	99.6	99.5

¹ 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.

² Seasonally adjusted data are derived by aggregation of the component series.

³ 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.

⁴ 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	1989			1990		
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Manufacturing¹						
Durable goods	103.9	106.3	109.8	97.8	97.6	98.7
Nondurable goods	104.9	104.3	104.2	96.4	93.7	96.2

¹ Seasonally adjusted data are derived by aggregation of the component series.

Table 6. Seasonal adjustment factors for average hourly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry

Industry division	1989			1990		
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Total private²						
Mining	(³)	(³)	(³)	(³)	(³)	(³)
Construction	100.6	99.9	100.3	100.6	99.9	100.0
Manufacturing	99.7	100.1	100.6	100.4	100.1	100.2
Excluding overtime	99.6	99.9	100.4	100.5	100.3	100.2
Transportation and public utilities	100.1	100.5	100.4	100.1	100.2	99.7
Wholesale trade⁴	99.6	100.1	100.3	100.4	100.4	100.0
Retail trade	100.1	100.4	100.1	100.7	100.3	100.1
Finance, insurance, and real estate⁴	99.4	100.2	99.7	100.7	101.2	100.5
Services	100.1	100.7	100.7	101.1	101.0	100.5

¹ 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.

² Seasonally adjusted data are derived by aggregation of the component series.

³ 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.

⁴ 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, 1955 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				
Annual averages												
1955	111,747	67,087	60.0	64,234	2,064	62,170	6,450	55,722	2,852	4.3	44,660	
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 ¹	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 ¹	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 ¹	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091	
1973 ¹	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 ¹	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 ¹	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	
Monthly data, seasonally adjusted²												
1988:												
October	186,801	123,778	66.3	117,260	1,687	115,573	3,238	112,335	6,518	5.3	63,023	
November	186,949	124,215	66.4	117,652	1,705	115,947	3,238	112,709	6,563	5.3	62,734	
December	187,098	124,259	66.4	117,705	1,696	116,009	3,193	112,816	6,554	5.3	62,839	
1989:												
January	187,340	125,124	66.8	118,407	1,696	116,711	3,300	113,411	6,716	5.4	62,216	
February	187,461	124,865	66.6	118,537	1,684	116,853	3,223	113,630	6,328	5.1	62,596	
March	187,581	124,948	66.6	118,820	1,684	117,136	3,206	113,930	6,128	4.9	62,633	
April	187,708	125,343	66.8	118,797	1,684	117,113	3,104	114,009	6,546	5.2	62,365	
May	187,854	125,293	66.7	118,888	1,673	117,215	3,112	114,102	6,395	5.1	62,571	
June	187,995	125,768	66.9	119,207	1,666	117,541	3,096	114,445	6,561	5.2	62,228	
July	188,149	125,622	66.8	119,125	1,666	117,459	3,219	114,240	6,497	5.2	62,527	
August	188,286	125,706	66.8	119,285	1,688	117,597	3,307	114,290	6,421	5.1	62,580	
September	188,428	125,742	66.7	119,158	1,702	117,456	3,257	114,199	6,584	5.2	62,686	
October	188,580	125,814	66.7	119,254	1,709	117,545	3,217	114,327	6,561	5.2	62,766	

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

² 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.

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1978 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				
Annual averages												
MEN												
1978 ¹	78,107	61,151	78.3	58,010	1,531	56,479	2,718	53,761	3,142	5.1	18,956	
1979	79,509	82,215	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	8.8	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	76.8	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	57,358	4,521	8.9	20,058	
1986 ¹	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	
Monthly data, seasonally adjusted²												
1988:												
October	89,637	68,569	76.5	64,976	1,526	63,450	2,544	60,906	3,593	5.2	21,068	
November	89,716	68,686	76.6	65,074	1,542	63,532	2,533	60,999	3,612	5.3	21,030	
December	89,792	68,638	76.4	65,055	1,534	63,521	2,477	61,044	3,583	5.2	21,154	
1989:												
January	89,914	69,032	76.8	65,322	1,532	63,790	2,501	61,289	3,710	5.4	20,882	
February	89,973	69,113	76.8	65,572	1,521	64,051	2,509	61,542	3,540	5.1	20,860	
March	90,032	69,190	76.9	65,920	1,521	64,399	2,497	61,902	3,270	4.7	20,842	
April	90,094	69,360	77.0	65,767	1,521	64,246	2,440	61,806	3,593	5.2	20,734	
May	90,167	69,114	76.7	65,713	1,511	64,202	2,447	61,755	3,401	4.9	21,053	
June	90,237	69,507	77.0	66,110	1,501	64,609	2,455	62,154	3,397	4.9	20,730	
July	90,315	69,245	76.7	65,961	1,499	64,462	2,552	61,909	3,284	4.7	21,070	
August	90,384	69,337	76.7	65,934	1,519	64,415	2,622	61,792	3,403	4.9	21,047	
September	90,456	69,272	76.6	65,601	1,531	64,070	2,519	61,551	3,672	5.3	21,184	
October	90,535	69,606	76.9	66,030	1,533	64,497	2,525	61,972	3,576	5.1	20,929	
Annual averages												
WOMEN												
1978 ¹	85,434	42,731	50.0	39,669	100	39,569	669	38,900	3,061	7.2	42,703	
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	46,829	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 ¹	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	56.1	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	
Monthly data, seasonally adjusted²												
1988:												
October	97,164	55,209	56.8	52,284	161	52,123	694	51,429	2,925	5.3	41,955	
November	97,234	55,529	57.1	52,578	163	52,415	705	51,710	2,951	5.3	41,705	
December	97,306	55,621	57.2	52,650	162	52,488	716	51,772	2,971	5.3	41,685	
1989:												
January	97,427	56,091	57.6	53,085	164	52,921	799	52,122	3,006	5.4	41,336	
February	97,488	55,752	57.2	52,965	163	52,802	713	52,089	2,787	5.0	41,736	
March	97,550	55,758	57.2	52,900	163	52,737	709	52,028	2,858	5.1	41,792	
April	97,614	55,983	57.4	53,029	163	52,866	663	52,203	2,953	5.3	41,631	
May	97,687	56,169	57.5	53,175	162	53,013	666	52,347	2,994	5.3	41,518	
June	97,758	56,261	57.6	53,097	165	52,932	641	52,290	3,164	5.6	41,497	
July	97,834	56,377	57.6	53,164	167	52,997	666	52,331	3,213	5.7	41,457	
August	97,902	56,370	57.6	53,352	169	53,183	685	52,498	3,018	5.4	41,532	
September	97,972	56,470	57.6	53,557	171	53,386	738	52,648	2,912	5.2	41,502	
October	98,045	56,208	57.3	53,224	176	53,048	692	52,356	2,985	5.3	41,837	

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

² The population and Armed Forces figures are not adjusted for seasonal variation.

**HOUSEHOLD DATA
HISTORICAL**

A-3. Employment status of the civilian noninstitutional population 16 years and over, 1955 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
Annual averages								
1955	109,683	65,023	59.3	62,170	2,852	4.4	4.2	4.9
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 ¹	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 ¹	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 ¹	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
1973 ¹	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 ¹	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 ¹	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
Monthly data, seasonally adjusted ²								
1988:								
October	185,114	122,091	66.0	115,573	6,518	5.3	5.4	5.3
November	185,244	122,510	66.1	115,947	6,563	5.4	5.4	5.3
December	185,402	122,563	66.1	116,009	6,554	5.3	5.3	5.4
1989:								
January	185,644	123,428	66.5	116,711	6,716	5.4	5.5	5.4
February	185,777	123,181	66.3	116,853	6,328	5.1	5.2	5.0
March	185,897	123,264	66.3	117,136	6,128	5.0	4.8	5.1
April	186,024	123,659	66.5	117,113	6,546	5.3	5.3	5.3
May	186,181	123,610	66.4	117,215	6,395	5.2	5.0	5.3
June	186,329	124,102	66.6	117,541	6,561	5.3	5.0	5.6
July	186,483	123,956	66.5	117,459	6,497	5.2	4.8	5.7
August	186,598	124,018	66.5	117,597	6,421	5.2	5.0	5.4
September	186,726	124,040	66.4	117,456	6,584	5.3	5.4	5.2
October	186,871	124,105	66.4	117,545	6,561	5.3	5.3	5.3

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

Explanatory Notes.

² 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	October 1989										
	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						
TOTAL											
16 years and over	186,871	124,416	66.6	118,194	6,222	5.0	62,455	26,406	8,733	3,424	23,893
16 to 19 years	14,107	7,603	53.9	6,481	1,122	14.8	6,503	425	5,650	27	401
16 to 17 years	6,746	3,011	44.6	2,525	466	16.1	3,735	88	3,493	12	142
18 to 19 years	7,361	4,593	62.4	3,956	637	13.9	2,768	337	2,157	16	259
20 to 24 years	17,901	13,891	77.6	12,743	1,148	8.3	4,010	1,388	1,924	103	595
25 to 54 years	104,159	87,470	84.0	83,963	3,508	4.0	16,688	11,266	1,105	1,324	2,993
25 to 34 years	42,850	36,177	84.4	34,417	1,759	4.9	6,673	4,623	704	294	1,052
35 to 44 years	21,064	17,777	84.4	16,856	922	5.2	3,286	2,212	440	124	510
45 to 54 years	21,786	18,399	84.5	17,562	838	4.6	3,387	2,410	264	171	542
55 to 64 years	36,375	31,132	85.6	30,003	1,129	3.6	5,243	3,552	301	514	876
65 to 74 years	19,504	16,572	85.0	15,975	597	3.6	2,932	2,013	204	264	451
75 years and over	16,871	14,560	86.3	14,029	531	3.6	2,311	1,539	97	250	425
16 to 19 years	24,934	20,161	80.9	19,542	620	3.1	4,772	3,092	101	515	1,085
20 to 24 years	13,564	11,376	83.9	11,028	349	3.1	2,188	1,465	66	205	451
25 to 29 years	11,369	8,785	77.3	8,514	271	3.1	2,584	1,627	34	310	614
30 to 34 years	21,402	11,974	55.9	11,629	345	2.9	9,428	4,397	23	759	4,249
35 to 39 years	10,641	7,110	66.8	6,889	221	3.1	3,530	1,918	16	377	1,219
40 to 44 years	10,761	4,864	45.2	4,740	124	2.5	5,898	2,480	7	381	3,030
45 to 49 years	29,303	3,477	11.9	3,377	100	2.9	25,826	8,929	30	1,211	15,855
50 to 54 years	10,036	2,103	21.0	2,039	65	3.1	7,933	2,865	13	297	4,758
55 to 59 years	7,818	874	11.2	846	28	3.1	6,945	2,362	3	201	4,378
60 to 64 years	11,449	501	4.4	493	8	1.6	10,948	3,702	14	713	6,519
65 to 69 years											
70 to 74 years											
75 years and over											
Men											
16 years and over	89,002	67,928	76.3	64,684	3,243	4.8	21,074	548	4,340	1,937	14,250
16 to 19 years	7,098	3,954	55.7	3,317	637	16.1	3,143	17	2,927	10	190
16 to 17 years	3,458	1,563	45.2	1,269	294	18.8	1,895	10	1,806	5	75
18 to 19 years	3,640	2,392	65.7	2,048	344	14.4	1,248	7	1,121	6	115
20 to 24 years	8,685	7,320	84.3	6,706	614	8.4	1,365	33	965	78	288
25 to 54 years	50,933	47,850	93.9	46,115	1,735	3.6	3,083	182	442	859	1,800
25 to 34 years	21,066	19,951	94.7	19,104	847	4.2	1,115	65	330	187	534
35 to 44 years	10,328	9,737	94.3	9,273	464	4.8	591	44	215	81	251
45 to 54 years	10,738	10,214	95.1	9,831	382	3.7	524	21	114	106	283
55 to 64 years	17,791	16,860	94.8	16,311	548	3.3	931	53	93	335	450
65 to 74 years	9,569	9,074	94.8	8,783	291	3.2	495	27	69	174	225
75 years and over	8,222	7,786	94.7	7,529	257	3.3	436	26	24	161	225
16 to 19 years	12,076	11,039	91.4	10,699	340	3.1	1,037	64	19	338	618
20 to 24 years	6,599	6,153	93.2	5,959	194	3.2	446	37	13	141	256
25 to 29 years	5,477	4,886	89.2	4,740	146	3.0	591	27	6	197	360
30 to 34 years	10,103	6,792	67.2	6,591	202	3.0	3,311	95	3	482	2,731
35 to 39 years	5,074	4,006	78.9	3,882	124	3.1	1,068	44	2	243	780
40 to 44 years	5,029	2,786	55.4	2,709	77	2.8	2,243	51	1	239	1,951
45 to 49 years	12,183	2,011	16.5	1,956	55	2.7	10,173	221	3	507	9,441
50 to 54 years	4,554	1,216	26.7	1,184	32	2.7	3,338	67		164	3,107
55 to 59 years	3,394	503	14.8	482	21	4.3	2,891	53		107	2,731
60 to 64 years	4,235	291	6.9	290	1	.4	3,944	101	3	236	3,603
65 to 69 years											
70 to 74 years											
75 years and over											
Women											
16 years and over	97,869	56,488	57.7	53,509	2,979	5.3	41,381	25,858	4,393	1,487	9,644
16 to 19 years	7,009	3,649	52.1	3,164	485	13.3	3,360	408	2,724	17	211
16 to 17 years	3,288	1,448	44.0	1,256	192	13.3	1,840	78	1,688	7	67
18 to 19 years	3,721	2,201	59.1	1,908	293	13.3	1,520	330	1,036	10	144
20 to 24 years	9,215	6,570	71.3	6,037	533	8.1	2,645	1,356	958	25	306
25 to 54 years	53,226	39,620	74.4	37,848	1,772	4.5	13,605	11,084	664	465	1,393
25 to 34 years	21,784	16,226	74.5	15,313	913	5.6	5,558	4,558	374	108	519
35 to 44 years	10,736	8,040	74.9	7,583	457	5.7	2,696	2,169	225	43	259
45 to 54 years	11,048	8,186	74.1	7,730	455	5.6	2,863	2,389	149	65	259
55 to 64 years	18,584	14,273	76.8	13,692	580	4.1	4,312	3,498	208	180	426
65 to 74 years	9,935	7,499	75.5	7,192	307	4.1	2,437	1,986	135	90	226
75 years and over	8,649	6,774	78.3	6,500	274	4.0	1,875	1,513	73	90	199
16 to 19 years	12,858	9,122	70.9	8,843	279	3.1	3,736	3,027	82	177	449
20 to 24 years	6,965	5,223	75.0	5,068	155	3.0	1,742	1,428	54	64	195
25 to 29 years	5,892	3,899	66.2	3,774	124	3.2	1,994	1,599	28	113	253
30 to 34 years	11,299	5,182	45.9	5,039	143	2.8	6,117	4,302	20	276	1,518
35 to 39 years	5,567	3,104	55.8	3,008	97	3.1	2,462	1,874	14	135	439
40 to 44 years	5,732	2,077	36.2	2,031	46	2.2	3,655	2,428	6	142	1,079
45 to 49 years	17,120	1,467	8.6	1,422	45	3.1	15,653	8,708	27	704	6,215
50 to 54 years	5,483	887	16.2	855	32	3.6	4,596	2,798	13	133	1,651
55 to 59 years	4,424	370	8.4	364	6	1.6	4,053	2,309	3	94	1,648
60 to 64 years	7,213	209	2.9	202	7	3.3	7,004	3,601	11	476	2,916
65 to 69 years											
70 to 74 years											
75 years and over											

**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	October 1989										
	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					
WHITE											
16 years and over	159,644	106,780	66.9	102,291	4,489	4.2	52,865	22,928	6,647	2,535	20,755
16 to 19 years	11,423	6,484	56.8	5,680	804	12.4	4,939	328	4,308	20	283
16 to 17 years	5,409	2,611	48.3	2,232	379	14.5	2,798	68	2,817	9	105
18 to 19 years	8,014	3,672	64.4	3,448	425	11.0	2,141	260	1,691	11	179
20 to 24 years	14,785	11,701	79.1	10,905	797	6.8	3,084	1,124	1,486	72	402
25 to 54 years	88,451	74,890	84.7	72,984	2,506	3.3	13,561	9,555	804	930	2,272
25 to 34 years	35,929	30,811	85.2	29,420	1,192	3.9	5,318	3,861	502	200	755
25 to 29 years	17,814	15,009	85.2	14,408	600	4.0	2,605	1,820	319	97	369
30 to 34 years	18,315	15,603	85.2	15,011	591	3.8	2,713	2,041	183	103	386
35 to 44 years	31,071	26,755	86.1	25,939	817	3.1	4,316	3,056	226	368	665
35 to 39 years	16,514	14,116	85.5	13,718	398	2.8	2,398	1,741	149	181	326
40 to 44 years	14,557	12,639	86.8	12,220	419	3.3	1,918	1,315	77	187	338
45 to 54 years	21,451	17,524	81.7	17,026	498	2.8	3,927	2,838	76	362	852
45 to 49 years	11,687	9,909	84.8	9,637	272	2.7	1,778	1,224	49	143	363
50 to 54 years	9,764	7,815	78.0	7,389	226	3.0	2,149	1,414	27	219	489
55 to 64 years	18,672	10,587	58.7	10,287	300	2.8	8,084	3,849	21	541	3,674
55 to 59 years	9,220	6,270	68.0	6,081	189	3.0	2,949	1,663	14	256	1,017
60 to 64 years	9,452	4,317	45.7	4,206	110	2.6	5,135	2,186	7	285	2,657
65 years and over	26,313	3,117	11.8	3,035	82	2.6	23,196	8,072	28	972	14,123
65 to 69 years	8,931	1,884	21.1	1,826	58	3.1	7,047	2,545	14	233	4,255
70 to 74 years	7,035	780	11.1	763	17	2.1	6,255	2,141	3	168	3,942
75 years and over	10,348	453	4.4	445	8	1.7	9,895	3,386	11	571	5,926
Men											
16 years and over	76,828	59,032	77.0	56,639	2,393	4.1	17,596	450	3,295	1,438	12,414
16 to 19 years	5,764	3,373	58.5	2,904	468	13.9	2,392	14	2,226	6	145
16 to 17 years	2,787	1,356	49.0	1,127	229	16.9	1,412	8	1,340	4	60
18 to 19 years	2,997	2,017	67.3	1,778	239	11.9	980	7	886	2	85
20 to 24 years	7,232	6,202	85.8	5,780	422	6.8	1,030	31	760	50	189
25 to 54 years	43,799	41,558	94.9	40,273	1,285	3.1	2,241	131	305	625	1,180
25 to 34 years	17,895	17,126	95.7	16,520	605	3.5	769	38	237	125	369
25 to 29 years	8,740	8,309	95.1	7,992	317	3.8	431	24	164	63	180
30 to 34 years	9,155	8,817	96.3	8,528	289	3.3	338	14	73	62	189
35 to 44 years	15,390	14,709	95.6	14,305	405	2.6	680	41	58	264	318
35 to 39 years	8,209	7,857	95.7	7,654	203	2.6	352	24	43	134	151
40 to 44 years	7,181	6,852	95.4	6,651	202	2.9	328	17	15	129	167
45 to 54 years	10,515	9,723	92.5	9,448	275	2.8	792	52	11	237	493
45 to 49 years	5,744	5,416	94.3	5,263	153	2.8	328	27	7	92	202
50 to 54 years	4,770	4,307	90.3	4,185	122	2.8	463	25	3	144	291
55 to 64 years	8,871	6,070	68.4	5,896	174	2.9	2,801	79	2	346	2,374
55 to 59 years	4,429	3,579	80.8	3,474	106	3.0	850	32	1	164	652
60 to 64 years	4,442	2,491	56.1	2,423	68	2.7	1,951	47	1	182	1,722
65 years and over	10,961	1,829	16.7	1,785	43	2.4	9,132	195	1	409	8,527
65 to 69 years	4,080	1,101	27.0	1,070	31	2.8	2,979	55	-	128	2,796
70 to 74 years	3,059	460	15.0	449	11	2.4	2,599	50	-	91	2,458
75 years and over	3,822	268	7.0	267	1	.4	3,554	91	1	190	3,273
Women											
16 years and over	83,017	47,748	57.5	45,652	2,096	4.4	35,269	22,477	3,351	1,099	8,341
16 to 19 years	5,659	3,111	55.0	2,776	336	10.8	2,548	314	2,082	14	139
16 to 17 years	2,642	1,256	47.5	1,105	150	12.0	1,386	60	1,277	5	45
18 to 19 years	3,017	1,855	61.5	1,670	185	10.0	1,161	254	805	9	94
20 to 24 years	7,553	5,499	72.8	5,124	375	6.8	2,054	1,093	726	23	213
25 to 54 years	44,652	33,332	74.6	32,111	1,221	3.7	11,320	9,424	499	305	1,092
25 to 34 years	18,034	13,486	74.8	12,900	586	4.3	4,549	3,822	265	75	386
25 to 29 years	8,874	6,700	75.5	6,416	263	4.2	2,174	1,796	155	34	189
30 to 34 years	9,161	6,786	74.1	6,483	303	4.5	2,375	2,026	110	41	197
35 to 44 years	15,681	12,046	76.8	11,634	412	3.4	3,635	3,016	169	104	346
35 to 39 years	8,305	6,259	75.4	6,065	194	3.1	2,046	1,717	107	46	175
40 to 44 years	7,376	5,787	78.5	5,569	218	3.8	1,589	1,298	62	58	171
45 to 54 years	10,938	7,800	71.3	7,577	223	2.9	3,136	2,586	65	125	360
45 to 49 years	5,943	4,493	75.6	4,374	119	2.7	1,450	1,197	41	51	161
50 to 54 years	4,993	3,308	66.2	3,204	104	3.1	1,686	1,389	24	75	198
55 to 64 years	9,800	4,517	46.1	4,391	126	2.8	5,284	3,769	19	195	1,301
55 to 59 years	4,791	2,691	56.2	2,608	83	3.1	2,100	1,630	12	92	365
60 to 64 years	5,010	1,826	36.4	1,783	42	2.3	3,184	2,139	6	104	935
65 years and over	15,352	1,288	8.4	1,249	39	3.0	14,064	7,877	27	563	5,596
65 to 69 years	4,850	783	16.1	757	27	3.4	4,067	2,490	14	105	1,459
70 to 74 years	3,976	320	8.1	314	6	1.8	3,655	2,092	3	77	1,484
75 years and over	6,526	185	2.8	178	7	3.6	6,341	3,296	10	381	2,654

**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	October 1989										
	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					
BLACK											
16 years and over	21,108	13,504	64.0	11,988	1,516	11.2	7,604	2,635	1,562	794	2,613
16 to 19 years	2,180	885	40.6	598	287	32.4	1,295	89	1,093	8	105
16 to 17 years	1,102	314	28.5	222	92	29.2	788	20	732	3	33
18 to 19 years	1,078	571	53.0	376	195	34.1	507	69	361	5	72
20 to 24 years	2,481	1,756	70.8	1,438	318	18.1	725	207	311	30	177
25 to 54 years	11,851	9,518	80.3	8,663	855	9.0	2,333	1,225	155	345	607
25 to 34 years	5,298	4,311	81.4	3,811	500	11.6	987	557	96	79	254
25 to 29 years	2,649	2,156	81.4	1,856	300	13.9	493	286	58	22	128
30 to 34 years	2,649	2,155	81.4	1,955	200	9.3	494	272	38	58	126
35 to 44 years	3,944	3,246	82.3	2,986	260	8.0	698	334	50	129	185
35 to 39 years	2,221	1,823	82.1	1,657	167	9.1	398	179	34	77	108
40 to 44 years	1,724	1,423	82.5	1,329	93	6.6	301	155	16	52	78
45 to 54 years	2,608	1,961	75.2	1,866	95	4.8	647	334	9	137	168
45 to 49 years	1,389	1,075	77.4	1,016	59	5.5	314	185	5	53	71
50 to 54 years	1,219	886	72.7	850	36	4.1	333	149	4	84	97
55 to 64 years	2,128	1,043	49.0	1,005	38	3.7	1,084	418	2	192	473
55 to 59 years	1,104	642	58.1	616	26	4.0	462	196	2	106	159
60 to 64 years	1,024	402	39.2	389	13	3.1	622	222		86	314
65 years and over	2,470	302	12.2	284	17	5.8	2,168	696	2	220	1,251
65 to 69 years	921	177	19.2	170	7	3.8	744	270		64	411
70 years and over	1,549	125	8.1	114	11	8.6	1,424	426	2	156	840
Men											
16 years and over	9,479	6,675	70.4	5,940	735	11.0	2,804	76	757	452	1,519
16 to 19 years	1,082	457	42.2	310	147	32.2	626	2	579	4	40
16 to 17 years	567	160	28.2	108	52	32.8	407	2	392	1	12
18 to 19 years	515	297	57.6	202	95	31.9	219	-	187	3	29
20 to 24 years	1,138	889	78.1	722	166	18.7	249	1	130	27	91
25 to 54 years	5,301	4,650	87.7	4,261	389	8.4	651	41	45	209	355
25 to 34 years	2,385	2,142	89.8	1,928	214	10.0	244	20	27	52	145
25 to 29 years	1,185	1,074	90.6	934	140	13.0	111	16	18	15	63
30 to 34 years	1,200	1,068	89.0	994	74	6.9	132	4	9	37	82
35 to 44 years	1,760	1,548	88.0	1,417	131	8.5	212	13	17	65	117
35 to 39 years	992	880	88.7	800	80	9.1	112	4	10	36	62
40 to 44 years	769	669	87.0	618	51	7.6	100	9	7	29	55
45 to 54 years	1,155	959	83.0	915	44	4.6	196	9	1	92	94
45 to 49 years	617	523	84.9	498	25	4.8	93	9	2	41	42
50 to 54 years	539	436	81.0	417	19	4.4	102	-		51	52
55 to 64 years	961	529	55.0	508	21	3.9	432	15	1	118	298
55 to 59 years	500	317	63.3	304	13	4.0	184	11	1	66	106
60 to 64 years	461	213	46.1	204	8	3.9	249	4		52	192
65 years and over	996	151	15.1	139	11	7.5	846	16	2	93	734
65 to 69 years	382	91	23.9	90	1	1.1	291	9		36	246
70 years and over	615	60	9.7	49	10	(¹)	555	7	2	57	488
Women											
16 years and over	11,630	6,829	58.7	6,048	782	11.4	4,800	2,559	805	342	1,094
16 to 19 years	1,097	428	39.0	289	140	32.6	669	87	514	4	65
16 to 17 years	535	154	28.8	115	39	25.6	381	18	340	2	21
18 to 19 years	563	274	48.8	174	100	36.6	288	69	174	1	44
20 to 24 years	1,343	867	64.6	715	152	17.5	476	206	181	2	87
25 to 54 years	6,550	4,869	74.3	4,402	466	9.6	1,681	1,184	110	136	252
25 to 34 years	2,912	2,169	74.5	1,883	286	13.2	743	537	69	28	109
25 to 29 years	1,464	1,082	73.9	922	160	14.8	382	270	40	7	65
30 to 34 years	1,448	1,087	75.1	961	126	11.6	361	267	29	21	44
35 to 44 years	2,184	1,698	77.7	1,568	129	7.6	486	322	32	64	69
35 to 39 years	1,229	944	76.8	857	87	9.2	286	176	24	41	45
40 to 44 years	955	754	79.0	712	42	5.6	201	146	8	23	23
45 to 54 years	1,453	1,002	68.9	951	51	5.1	452	325	8	44	74
45 to 49 years	773	552	71.4	518	34	6.1	221	176	4	12	29
50 to 54 years	681	450	66.1	433	17	3.8	231	149	4	33	45
55 to 64 years	1,166	514	44.1	497	17	3.4	652	403	1	74	175
55 to 59 years	604	325	53.9	312	13	4.1	278	185	1	39	53
60 to 64 years	562	189	33.6	185	4	2.3	374	218		34	122
65 years and over	1,473	151	10.2	145	6	4.1	1,323	679		127	516
65 to 69 years	539	86	15.9	80	6	6.7	453	260		28	165
70 years and over	935	65	7.0	65	-	(¹)	869	419		99	352

¹ 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	October 1989								
	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	
TOTAL									
16 years and over	27,227	17,636	64.8	15,902	185	15,717	1,734	9.8	9,591
16 to 19 years	2,683	1,119	41.7	801	5	796	319	28.5	1,564
16 to 17 years	1,336	399	29.9	292	3	289	107	26.7	937
18 to 19 years	1,347	720	53.5	508	2	506	212	29.4	627
20 to 24 years	3,115	2,189	70.3	1,821	17	1,821	351	16.0	926
25 to 54 years	15,708	12,580	80.1	11,579	117	11,462	1,001	8.0	3,128
25 to 34 years	6,921	5,565	80.4	4,998	36	4,962	568	10.2	1,355
25 to 29 years	3,450	2,769	80.3	2,447	24	2,423	322	11.6	681
30 to 34 years	3,471	2,796	80.6	2,550	12	2,539	246	8.8	675
35 to 44 years	5,304	4,377	82.5	4,065	48	4,016	312	7.1	927
35 to 39 years	2,990	2,456	82.1	2,256	22	2,234	200	8.1	534
40 to 44 years	2,314	1,921	83.0	1,809	26	1,782	112	5.8	393
45 to 54 years	3,483	2,638	75.7	2,516	33	2,484	122	4.6	845
45 to 49 years	1,877	1,468	78.2	1,391	20	1,370	77	5.2	409
50 to 54 years	1,606	1,170	72.9	1,125	12	1,113	45	3.8	436
55 to 64 years	2,731	1,387	50.8	1,342	34	1,308	45	3.3	1,344
55 to 59 years	1,421	840	59.1	808	16	792	32	3.8	581
60 to 64 years	1,310	547	41.8	534	17	517	13	2.4	762
65 years and over	2,990	360	12.1	343	12	331	18	4.9	2,630
65 to 69 years	1,106	219	19.8	212	6	207	7	3.1	887
70 to 74 years	784	94	11.9	83	5	78	11	11.7	690
75 years and over	1,101	48	4.3	47	1	46	-	(¹)	1,053
Men									
16 years and over	12,374	8,896	71.9	8,045	156	7,888	851	9.6	3,479
16 to 19 years	1,333	582	43.6	413	5	408	169	29.1	752
16 to 17 years	691	207	30.0	142	3	139	65	31.3	484
18 to 19 years	643	375	58.3	270	2	268	104	27.9	268
20 to 24 years	1,453	1,118	77.0	926	17	908	192	17.2	335
25 to 54 years	7,134	6,292	88.2	5,842	94	5,748	450	7.2	842
25 to 34 years	3,171	2,825	89.1	2,584	30	2,555	241	8.5	346
25 to 29 years	1,588	1,429	90.0	1,281	19	1,262	148	10.3	159
30 to 34 years	1,583	1,397	88.2	1,303	11	1,293	93	6.7	187
35 to 44 years	2,401	2,150	89.5	2,007	41	1,966	143	6.7	251
35 to 39 years	1,360	1,217	89.5	1,129	19	1,110	88	7.2	143
40 to 44 years	1,041	934	89.7	878	22	855	56	6.0	108
45 to 54 years	1,561	1,316	84.3	1,251	24	1,227	65	5.0	245
45 to 49 years	855	737	86.2	696	12	684	41	5.6	118
50 to 54 years	707	579	82.0	555	11	543	24	4.2	127
55 to 64 years	1,232	722	58.6	694	31	663	28	3.8	510
55 to 59 years	645	428	66.1	408	15	393	18	4.3	219
60 to 64 years	587	296	50.4	286	16	270	9	3.2	291
65 years and over	1,222	182	14.9	170	9	162	11	6.2	1,040
65 to 69 years	473	115	24.3	114	6	109	1	.9	358
70 to 74 years	335	43	12.9	33	2	31	10	(¹)	292
75 years and over	413	23	5.7	24	1	22	-	(¹)	390
Women									
16 years and over	14,853	8,740	58.8	7,857	29	7,829	863	10.1	6,112
16 to 19 years	1,350	538	39.8	388	-	388	150	27.8	812
16 to 17 years	645	192	29.8	150	-	150	42	21.8	453
18 to 19 years	704	345	49.0	238	-	238	108	31.1	359
20 to 24 years	1,662	1,071	64.4	913	-	913	158	14.8	591
25 to 54 years	8,574	6,288	73.3	5,737	23	5,714	551	8.8	2,286
25 to 34 years	3,750	2,740	73.1	2,413	6	2,407	327	11.9	1,010
25 to 29 years	1,862	1,340	72.0	1,167	5	1,161	174	13.0	522
30 to 34 years	1,888	1,400	74.1	1,247	1	1,246	153	10.9	488
35 to 44 years	2,903	2,226	76.7	2,058	8	2,051	168	7.6	676
35 to 39 years	1,630	1,239	76.0	1,127	3	1,124	112	9.1	391
40 to 44 years	1,273	987	77.6	931	4	927	56	5.7	285
45 to 54 years	1,921	1,321	68.8	1,265	9	1,256	56	4.3	600
45 to 49 years	1,022	731	71.5	695	8	686	36	4.9	292
50 to 54 years	899	591	65.7	571	1	570	20	3.4	308
55 to 64 years	1,499	665	44.4	648	2	645	17	2.6	834
55 to 59 years	776	413	53.3	400	1	398	14	3.3	363
60 to 64 years	723	252	34.8	248	1	247	4	1.6	471
65 years and over	1,768	179	10.1	172	3	169	6	3.6	1,590
65 to 69 years	632	104	16.5	98	-	98	6	5.5	528
70 to 74 years	448	50	11.2	50	3	47	-	(¹)	398
75 years and over	687	24	3.5	24	-	24	-	(¹)	663

¹ Data not shown where base is less than 75,000.

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	
	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
TOTAL								
Civilian noninstitutional population	185,114	186,871	80,851	81,905	89,807	90,860	14,456	14,107
Civilian labor force	122,432	124,416	63,023	63,973	51,809	52,839	7,599	7,603
Percent of population	66.1	66.6	78.0	78.1	57.7	58.2	52.6	53.9
Employed	116,250	118,194	60,405	61,367	49,379	50,345	6,465	6,481
Agriculture	3,316	3,309	2,400	2,401	678	686	238	221
Nonagricultural industries	112,934	114,885	58,005	58,966	48,701	49,659	6,228	6,260
Unemployed	6,182	6,222	2,618	2,606	2,430	2,494	1,134	1,122
Unemployment rate	5.0	5.0	4.2	4.1	4.7	4.7	14.9	14.8
Not in labor force	62,682	62,455	17,828	17,931	37,998	38,021	6,856	6,503
White								
Civilian noninstitutional population	158,524	159,644	70,090	70,864	76,658	77,358	11,777	11,423
Civilian labor force	105,295	106,780	54,924	55,659	43,814	44,637	6,557	6,484
Percent of population	66.4	66.9	78.4	78.5	57.2	57.7	55.7	56.8
Employed	100,723	102,291	52,930	53,735	42,093	42,876	5,700	5,680
Agriculture	3,133	3,124	2,247	2,250	651	658	235	216
Nonagricultural industries	97,590	99,168	50,683	51,485	41,442	42,218	5,465	5,464
Unemployed	4,572	4,489	1,994	1,924	1,721	1,761	857	804
Unemployment rate	4.3	4.2	3.6	3.5	3.9	3.9	13.1	12.4
Not in labor force	53,229	52,865	15,166	15,204	32,843	32,721	5,220	4,939
Black								
Civilian noninstitutional population	20,786	21,108	8,257	8,396	10,348	10,532	2,181	2,180
Civilian labor force	13,307	13,504	6,147	6,218	6,309	6,401	851	885
Percent of population	64.0	64.0	74.4	74.1	61.0	60.8	39.0	40.6
Employed	11,873	11,988	5,593	5,630	5,681	5,759	600	598
Agriculture	135	128	116	104	18	18	2	6
Nonagricultural industries	11,738	11,860	5,477	5,527	5,663	5,741	598	592
Unemployed	1,434	1,516	554	588	628	642	252	287
Unemployment rate	10.8	11.2	9.0	9.5	10.0	10.0	29.5	32.4
Not in labor force	7,479	7,604	2,109	2,178	4,040	4,131	1,330	1,295

**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	October 1989									
	Civilian noninstitutional population	Civilian labor force								
		Total	Percent of population	Employed			Unemployed			
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	Percent of labor force
TOTAL ENROLLED										
Total, 16 to 24 years	15,208	7,697	50.6	6,924	1,432	5,492	774	94	680	10.1
16 to 19 years	10,378	4,732	45.6	4,139	417	3,722	593	56	537	12.5
20 to 24 years	4,829	2,965	61.4	2,784	1,015	1,769	181	38	143	6.1
High school	7,231	3,204	44.3	2,732	198	2,534	472	45	427	14.7
College	7,977	4,494	56.3	4,192	1,234	2,958	301	49	253	6.7
Full-time students	6,721	3,344	49.8	3,097	453	2,644	247	25	222	7.4
Part-time students	1,255	1,149	91.6	1,095	781	314	54	24	31	4.7
Men, 16 to 24 years	7,638	3,774	49.4	3,317	722	2,596	457	59	398	12.1
16 to 19 years	5,296	2,377	44.9	2,021	230	1,791	356	39	317	15.0
20 to 24 years	2,342	1,397	59.7	1,296	492	805	101	20	81	7.2
High school	3,844	1,722	44.8	1,420	143	1,277	302	31	271	17.5
College	3,793	2,052	54.1	1,897	578	1,319	155	28	127	7.6
Full-time students	3,269	1,566	47.9	1,437	244	1,194	128	12	116	8.2
Part-time students	524	486	92.7	460	334	125	27	16	11	5.5
Women, 16 to 24 years	7,570	3,923	51.8	3,607	711	2,896	317	35	282	8.1
16 to 19 years	5,082	2,355	46.3	2,118	187	1,931	237	17	220	10.1
20 to 24 years	2,488	1,568	63.0	1,488	523	965	80	18	62	5.1
High school	3,387	1,482	43.8	1,311	55	1,257	170	14	156	11.5
College	4,183	2,441	58.4	2,295	656	1,639	146	21	126	6.0
Full-time students	3,452	1,778	51.5	1,660	209	1,450	119	13	106	6.7
Part-time students	731	663	90.7	635	447	189	28	7	20	4.2
White										
Total, 16 to 24 years	12,423	6,641	53.5	6,083	1,243	4,840	558	64	494	8.4
16 to 19 years	8,387	4,072	48.5	3,635	363	3,272	437	33	404	10.7
20 to 24 years	4,036	2,570	63.7	2,449	881	1,568	121	31	90	4.7
Men	6,276	3,291	52.4	2,945	637	2,309	345	44	302	10.5
Women	6,146	3,350	54.5	3,138	607	2,531	212	20	192	6.3
High school	5,685	2,729	48.0	2,379	162	2,217	349	33	316	12.8
College	6,737	3,913	58.1	3,704	1,081	2,623	209	31	178	5.3
Full-time students	5,677	2,936	51.7	2,754	396	2,358	182	20	162	6.2
Part-time students	1,061	977	92.1	950	685	265	27	11	16	2.7
Black										
Total, 16 to 24 years	2,118	753	35.6	566	133	433	187	29	158	24.9
16 to 19 years	1,570	482	30.7	345	30	314	137	23	114	28.4
20 to 24 years	548	271	49.5	221	103	118	51	6	44	18.6
Men	1,020	327	32.1	238	57	181	89	15	74	27.3
Women	1,098	426	38.8	328	77	251	98	15	84	23.0
High school	1,250	362	28.9	254	23	231	107	12	95	29.7
College	868	392	45.1	312	110	201	80	17	63	20.4
Full-time students	732	270	36.9	215	49	166	55	5	50	20.3
Part-time students	137	122	89.0	96	61	35	25	13	13	20.7
Hispanic origin										
Total, 16 to 24 years	1,169	537	46.0	475	149	325	63	15	48	11.7
16 to 19 years	873	343	39.3	300	56	244	43	10	33	12.5
20 to 24 years	296	194	65.7	174	93	81	20	5	15	10.2
Men	616	301	48.9	255	98	156	46	10	36	15.4
Women	553	236	42.7	220	51	169	16	4	12	6.9
High school	717	249	34.7	208	47	160	41	14	28	16.6
College	452	288	63.7	267	102	165	21	1	20	7.4
Full-time students	334	183	54.7	164	31	133	19	-	19	10.2
Part-time students	119	106	89.0	103	71	32	3	1	1	2.5

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	October 1989									
	Civilian noninstitutional population	Civilian labor force								Percent of labor force
		Total	Percent of population	Employed			Unemployed			
				Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	
TOTAL NOT ENROLLED										
Total, 16 to 24 years	16,799	13,797	82.1	12,300	10,662	1,639	1,496	1,326	170	10.8
16 to 19 years	3,728	2,871	77.0	2,342	1,772	570	530	457	72	18.4
20 to 24 years	13,071	10,925	83.6	9,959	8,890	1,069	967	869	98	8.8
Less than 4 years of high school	4,021	2,676	66.6	2,129	1,745	384	547	478	69	20.5
4 years of high school	8,626	7,262	84.2	6,548	5,609	939	715	631	84	9.8
1 to 3 years of college	2,644	2,400	90.8	2,262	2,013	250	138	124	14	5.7
4 years of college or more	1,509	1,458	96.6	1,361	1,296	66	96	93	3	6.6
Men, 16 to 24 years	8,145	7,501	92.1	6,706	6,038	668	795	757	38	10.6
16 to 19 years	1,801	1,577	87.6	1,296	1,038	258	281	261	20	17.8
20 to 24 years	6,343	5,923	93.4	5,410	5,000	410	514	495	18	8.7
Less than 4 years of high school	2,104	1,795	85.3	1,469	1,262	207	326	307	18	18.1
4 years of high school	4,161	3,893	93.6	3,535	3,187	347	358	343	15	9.2
1 to 3 years of college	1,213	1,167	96.2	1,110	1,009	101	57	55	3	4.9
4 years of college or more	667	646	96.9	592	579	13	54	51	3	8.4
Women, 16 to 24 years	8,655	6,296	72.7	5,595	4,624	971	701	569	132	11.1
16 to 19 years	1,927	1,294	67.1	1,045	734	312	248	196	52	19.2
20 to 24 years	6,728	5,002	74.3	4,549	3,890	659	453	373	80	9.1
Less than 4 years of high school	1,917	881	46.0	660	482	177	222	171	51	25.2
4 years of high school	4,465	3,369	75.5	3,013	2,421	592	356	288	69	10.6
1 to 3 years of college	1,430	1,234	86.2	1,153	1,004	149	81	69	11	6.5
4 years of college or more	842	812	96.4	769	717	53	42	42	1	5.2
White										
Total, 16 to 24 years	13,786	11,544	83.7	10,501	9,175	1,326	1,043	913	130	9.0
16 to 19 years	3,036	2,412	79.4	2,045	1,561	484	367	321	46	15.2
20 to 24 years	10,750	9,132	84.9	8,456	7,614	842	676	592	84	7.4
Men	6,720	6,284	93.5	5,739	5,235	504	545	510	35	8.7
Women	7,066	5,260	74.4	4,762	3,940	822	498	403	95	9.5
Less than 4 years of high school	3,241	2,238	69.0	1,845	1,519	326	393	344	48	17.6
4 years of high school	7,039	6,037	85.8	5,561	4,819	742	476	411	65	7.9
1 to 3 years of college	2,180	1,982	90.9	1,883	1,686	197	99	85	14	5.0
4 years of college or more	1,327	1,287	97.0	1,213	1,152	62	74	72	2	5.8
Black										
Total, 16 to 24 years	2,542	1,888	74.3	1,470	1,205	265	418	381	36	22.1
16 to 19 years	610	403	66.2	253	184	70	150	127	23	37.2
20 to 24 years	1,933	1,485	76.8	1,217	1,021	196	268	254	13	18.0
Men	1,200	1,018	84.8	794	649	145	224	221	3	22.0
Women	1,342	870	64.8	676	556	120	194	160	34	22.2
Less than 4 years of high school	645	364	56.5	221	167	53	144	124	20	39.4
4 years of high school	1,387	1,059	76.4	834	671	163	225	209	16	21.2
1 to 3 years of college	388	349	90.0	315	268	47	34	34	-	9.7
4 years of college or more	123	116	93.9	100	98	2	16	15	1	13.5
Hispanic origin										
Total, 16 to 24 years	2,265	1,672	73.8	1,461	1,281	179	212	191	21	12.7
16 to 19 years	497	326	65.6	253	190	63	73	66	6	22.3
20 to 24 years	1,768	1,347	76.1	1,207	1,091	116	139	124	15	10.3
Men	1,153	1,069	92.7	927	848	80	142	132	10	13.3
Women	1,112	603	54.2	533	434	100	70	59	11	11.6
Less than 4 years of high school	1,140	746	65.5	641	562	78	106	95	10	14.2
4 years of high school	885	710	80.1	624	540	84	85	77	8	12.0
1 to 3 years of college	192	171	89.1	155	142	14	16	14	2	9.3
4 years of college or more	48	45	(²)	40	37	3	5	5	-	(²)

¹ 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.

² 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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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							
	Oct. 1988	Oct. 1989	Total		Employed		Unemployed			
			Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Number		Percent of labor force	
							Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
VIETNAM-ERA VETERANS										
Total, 30 years and over	7,899	7,927	7,318	7,251	7,069	6,994	249	257	3.4	3.5
30 to 44 years	5,799	5,368	5,524	5,079	5,334	4,908	190	171	3.4	3.4
30 to 34 years	622	423	582	379	537	364	45	15	7.7	4.0
35 to 39 years	2,034	1,644	1,937	1,538	1,871	1,486	66	51	3.4	3.3
40 to 44 years	3,143	3,301	3,005	3,163	2,926	3,058	79	105	2.6	3.3
45 years and over	2,100	2,559	1,794	2,171	1,735	2,086	59	86	3.3	3.9
NONVETERANS										
Total, 30 to 44 years	20,707	21,789	19,703	20,699	18,974	19,988	729	710	3.7	3.4
30 to 34 years	9,165	9,434	8,768	8,999	8,410	8,668	358	331	4.1	3.7
35 to 39 years	6,997	7,549	6,657	7,185	6,418	6,958	239	227	3.6	3.2
40 to 44 years	4,545	4,806	4,278	4,515	4,146	4,362	132	152	3.1	3.4

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 30 to 44 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

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

(In thousands)

Sex, age, and race	October 1989							
	Employed						Unemployed	
	Full time			Part time			Looking for full-time work	Looking for part-time work
	Total	Full-time schedules ¹	Part time for economic reasons, usually work full time	Total	Voluntary ¹	Part time for economic reasons, usually work part time		
TOTAL								
Total, 16 years and over	97,996	96,434	1,562	20,198	17,325	2,873	4,751	1,471
16 to 19 years	2,189	2,114	74	4,292	3,975	317	513	609
16 to 17 years	228	216	12	2,297	2,242	55	101	385
18 to 19 years	1,961	1,899	62	1,995	1,733	262	413	224
20 years and over	95,807	94,320	1,487	15,906	13,350	2,556	4,238	862
20 to 24 years	9,905	9,663	242	2,838	2,346	492	907	241
25 years and over	85,902	84,657	1,245	13,067	11,004	2,063	3,331	622
25 to 54 years	74,682	73,616	1,066	9,281	7,619	1,662	3,031	476
55 years and over	11,220	11,041	179	3,787	3,385	402	300	145
Men, 16 years and over	58,129	57,225	905	6,555	5,351	1,204	2,649	594
16 to 19 years	1,268	1,222	46	2,049	1,887	162	300	337
20 years and over	56,861	56,003	858	4,506	3,463	1,043	2,349	257
20 to 24 years	5,491	5,350	141	1,215	961	253	515	99
25 years and over	51,370	50,653	718	3,291	2,502	789	1,833	158
25 to 54 years	44,364	43,742	621	1,751	1,118	633	1,646	89
55 years and over	7,006	6,910	96	1,540	1,385	156	187	69
Women, 16 years and over	39,866	39,209	657	13,643	11,974	1,669	2,102	877
16 to 19 years	921	892	28	2,243	2,087	156	213	272
20 years and over	38,946	38,317	629	11,400	9,887	1,513	1,889	605
20 to 24 years	4,414	4,312	101	1,624	1,385	239	391	142
25 years and over	34,532	34,004	528	9,776	8,502	1,274	1,497	464
25 to 54 years	30,318	29,874	445	7,530	6,501	1,028	1,385	387
55 years and over	4,214	4,131	83	2,246	2,000	246	112	76
White								
Men, 16 years and over	50,976	50,204	772	5,663	4,725	938	1,936	456
16 to 19 years	1,122	1,086	36	1,782	1,657	125	213	255
20 years and over	49,854	49,118	736	3,881	3,068	813	1,723	202
20 to 24 years	4,750	4,626	124	1,030	843	187	340	82
25 years and over	45,104	44,492	612	2,851	2,225	626	1,382	120
25 to 54 years	38,826	38,291	536	1,447	953	494	1,214	71
55 years and over	6,278	6,202	76	1,404	1,271	132	168	49
Women, 16 years and over	33,478	32,952	525	12,174	10,833	1,342	1,427	669
16 to 19 years	802	778	24	1,974	1,840	134	141	194
20 years and over	32,676	32,174	502	10,200	8,993	1,207	1,286	475
20 to 24 years	3,745	3,663	82	1,380	1,206	174	282	92
25 years and over	28,931	28,511	420	8,821	7,787	1,034	1,004	382
25 to 54 years	25,261	24,914	347	6,850	6,005	845	909	312
55 years and over	3,670	3,596	74	1,970	1,782	189	95	70
Black								
Men, 16 years and over	5,301	5,194	107	639	416	223	623	112
16 to 19 years	114	106	8	196	163	33	79	68
20 years and over	5,187	5,088	99	443	253	190	543	44
20 to 24 years	592	575	17	130	73	57	157	9
25 years and over	4,595	4,513	83	313	180	133	386	35
25 to 54 years	4,063	3,993	70	198	87	111	371	18
55 years and over	532	520	12	115	93	22	15	17
Women, 16 years and over	4,969	4,853	116	1,079	811	268	595	187
16 to 19 years	101	95	5	188	173	15	71	69
20 years and over	4,868	4,758	111	891	638	253	524	118
20 to 24 years	532	515	17	184	128	55	104	48
25 years and over	4,336	4,243	94	707	510	197	420	70
25 to 54 years	3,931	3,846	84	471	327	144	403	64
55 years and over	405	396	9	236	183	53	18	6

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Family relationship	October 1989									
	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 ¹	99,835	67.0	94,712	5,123	5.1	49,116	21,402	7,890	2,400	17,424
Husbands	40,286	78.3	39,252	1,034	2.6	11,138	182	210	928	9,817
With employed wife	26,790	92.3	26,211	579	2.2	2,229	55	115	314	1,745
With unemployed wife	1,048	92.4	973	76	7.2	86	-	8	22	56
With wife not in labor force	12,448	58.5	12,068	380	3.0	8,823	127	88	591	8,017
Wives	30,153	58.6	29,018	1,135	3.8	21,271	16,769	410	380	3,712
With employed husband	27,184	69.3	26,211	973	3.6	12,068	10,565	343	143	1,016
With unemployed husband	654	63.3	579	76	11.6	380	320	20	6	33
With husband not in labor force	2,315	20.8	2,229	86	3.7	8,823	5,884	46	231	2,663
Relatives in married-couple families	12,750	63.8	11,489	1,261	9.9	7,229	634	5,068	353	1,174
16 to 19 years	4,665	52.7	4,116	549	11.8	4,181	107	3,877	11	185
20 to 24 years	4,491	75.8	4,098	393	8.8	1,434	133	1,068	44	190
25 years and over	3,594	69.0	3,275	319	8.9	1,614	394	123	298	799
Women who maintain families	6,944	62.6	6,399	544	7.8	4,157	2,703	236	277	941
Relatives in families maintained by women	5,662	60.2	4,787	875	15.5	3,739	768	1,594	321	1,056
16 to 19 years	1,553	50.5	1,191	363	23.3	1,523	89	1,271	12	151
20 to 24 years	1,527	74.3	1,283	245	16.0	530	106	266	30	127
25 years and over	2,580	60.5	2,313	267	10.3	1,686	573	57	279	778
Men who maintain families	2,242	79.0	2,136	104	4.6	594	45	27	73	449
Relatives in families maintained by men	1,797	64.5	1,627	170	9.4	988	301	345	68	273
16 to 19 years	272	49.4	229	43	15.8	279	21	241	-	18
20 to 24 years	483	77.6	442	42	8.6	139	42	65	3	30
25 years and over	1,041	64.6	956	85	8.2	570	238	39	65	225

¹ 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	
	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
Total, 16 years and over	3,267	3,243	4.9	4.8	2,915	2,979	5.3	5.3
Married, spouse present	1,182	1,150	2.8	2.7	1,114	1,219	3.7	3.9
Widowed, divorced, or separated	441	390	6.6	5.4	622	635	5.7	5.6
Single (never married)	1,644	1,703	9.0	9.2	1,178	1,125	8.4	8.1
White, 16 years and over	2,477	2,393	4.3	4.1	2,095	2,096	4.5	4.4
Married, spouse present	974	937	2.6	2.5	950	1,018	3.5	3.7
Widowed, divorced, or separated	328	282	5.9	4.7	413	407	4.8	4.5
Single (never married)	1,175	1,173	7.8	7.7	732	671	6.5	6.0
Black, 16 years and over	710	735	10.7	11.0	724	782	10.8	11.4
Married, spouse present	178	163	5.5	5.2	128	145	5.4	5.9
Widowed, divorced, or separated	96	100	9.9	9.8	187	215	9.5	10.8
Single (never married)	435	471	17.9	18.7	410	421	17.5	17.8
Total, 25 years and over	2,007	1,991	3.6	3.5	1,896	1,961	4.2	4.2
Married, spouse present	1,073	1,078	2.7	2.7	972	1,032	3.4	3.6
Widowed, divorced, or separated	416	365	6.4	5.2	538	579	5.2	5.3
Single (never married)	516	549	5.9	6.1	386	349	6.2	5.5
White, 25 years and over	1,550	1,502	3.2	3.0	1,362	1,386	3.6	3.5
Married, spouse present	882	877	2.4	2.4	824	851	3.3	3.3
Widowed, divorced, or separated	309	267	5.8	4.6	349	364	4.2	4.2
Single (never married)	359	359	5.0	4.9	189	171	4.0	3.5
Black, 25 years and over	399	421	7.6	7.9	472	490	8.7	8.9
Married, spouse present	164	154	5.4	5.1	113	130	5.1	5.7
Widowed, divorced, or separated	91	90	9.7	9.0	169	204	8.8	10.4
Single (never married)	146	177	11.7	13.4	190	157	14.5	12.1

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-12. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
Total, 16 years and over	6,182	6,222	5.0	5.0	4.9	4.8	5.3	5.3
Managerial and professional specialty	583	593	1.9	1.9	1.5	1.6	2.5	2.2
Executive, administrative, and managerial	291	337	2.0	2.2	1.5	1.9	2.8	2.6
Professional specialty	292	256	1.9	1.6	1.4	1.3	2.3	1.8
Technical, sales, and administrative support	1,455	1,541	3.9	4.1	3.7	3.3	4.0	4.5
Technicians and related support	94	99	2.5	2.7	2.8	3.3	2.2	2.2
Sales occupations	672	664	4.6	4.5	3.4	3.0	5.8	6.1
Administrative support, including clerical	689	777	3.6	4.0	4.6	4.0	3.4	4.1
Service occupations	1,130	1,032	6.8	6.3	6.3	6.2	7.1	6.3
Private household	53	41	5.5	4.9	(¹)	(¹)	4.9	4.8
Protective service	97	62	4.7	3.2	4.2	2.7	7.2	5.7
Service, except private household and protective	980	928	7.3	6.8	7.1	7.4	7.4	6.5
Precision production, craft, and repair	712	652	5.0	4.5	4.9	4.4	5.1	5.4
Mechanics and repairers	176	147	3.9	3.2	3.8	3.1	7.3	5.0
Construction trades	345	348	6.3	6.1	6.2	6.0	10.5	9.6
Other precision production, craft, and repair	190	156	4.3	3.7	4.4	3.3	4.1	4.9
Operators, fabricators, and laborers	1,368	1,438	7.0	7.3	6.6	6.9	8.1	8.7
Machine operators, assemblers, and inspectors	616	632	6.9	7.2	6.0	6.0	8.2	8.8
Transportation and material moving occupations	210	267	4.1	5.0	4.1	4.9	3.8	5.5
Handlers, equipment cleaners, helpers, and laborers	542	538	9.8	9.9	9.8	10.0	9.8	9.8
Construction laborers	141	104	13.5	12.4	13.2	12.6	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	401	435	9.0	9.5	8.8	9.4	9.5	9.8
Farming, forestry, and fishing	238	233	6.3	6.3	6.2	6.2	6.7	6.8
No previous work experience	678	695	-	-	-	-	-	-
16 to 19 years	458	415	-	-	-	-	-	-
20 to 24 years	120	132	-	-	-	-	-	-
25 years and over	100	148	-	-	-	-	-	-

¹ Data not shown where base is less than 75,000.

A-13. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
Total, 16 years and over	6,182	6,222	5.0	5.0	4.9	4.8	5.3	5.3
Nonagricultural private wage and salary workers	4,709	4,693	5.2	5.1	5.0	4.8	5.3	5.4
Mining	63	32	8.1	4.7	8.8	5.6	4.2	-
Construction	519	473	8.2	7.4	8.6	7.6	4.4	5.3
Manufacturing	1,085	1,138	5.0	5.1	4.5	4.5	5.9	6.4
Durable goods	589	636	4.6	4.8	4.4	4.4	5.0	5.9
Lumber and wood products	51	41	6.9	5.5	7.4	6.1	3.5	2.8
Furniture and fixtures	27	40	3.9	5.9	3.6	6.4	4.5	4.7
Stone, clay, and glass products	39	46	6.3	6.3	5.2	5.6	11.2	8.9
Primary metal industries	27	29	3.2	3.3	3.5	3.1	.6	4.4
Fabricated metal products	72	93	5.4	7.3	5.0	6.6	6.3	9.4
Machinery, except electrical	108	93	4.2	3.6	4.1	2.9	4.4	5.6
Electrical machinery, equipment, and supplies	71	105	3.4	4.9	2.4	4.8	4.9	5.0
Transportation equipment	139	127	5.1	4.7	4.9	4.1	5.9	6.7
Automobiles	59	81	4.6	6.5	3.7	6.1	8.3	8.2
Other transportation equipment	80	46	5.5	3.1	5.9	2.4	3.9	5.6
Professional and photographic equipment	21	31	3.2	4.0	2.9	3.6	3.6	4.6
Other durable goods industries	34	31	6.6	5.6	7.6	4.8	4.6	7.2
Nondurable goods	496	502	5.5	5.5	4.7	4.5	6.6	6.9
Food and kindred products	135	113	7.6	6.0	6.4	5.6	9.7	6.7
Textile mill products	38	39	5.2	5.5	5.0	2.6	5.4	8.4
Apparel and other textile products	90	85	7.2	6.7	6.8	4.8	7.3	7.3
Paper and allied products	19	45	2.6	5.7	2.7	3.6	2.3	12.0
Printing and publishing	83	96	4.5	5.1	4.2	4.3	4.8	6.1
Chemicals and allied products	44	32	3.3	2.5	2.7	2.4	4.7	2.6
Rubber and miscellaneous plastics products	51	68	5.7	8.3	5.0	8.9	7.1	7.2
Other nondurable goods industries	36	23	8.1	5.9	7.3	3.7	9.9	9.5
Transportation and public utilities	198	223	3.2	3.6	3.4	3.5	2.7	3.7
Transportation	154	166	4.2	4.5	4.3	4.4	3.9	4.8
Communications and other public utilities	45	56	1.7	2.2	1.9	1.9	1.5	2.7
Wholesale and retail trade	1,331	1,338	5.8	5.6	4.8	4.5	6.7	6.9
Wholesale trade	134	197	3.0	4.2	2.3	3.3	4.7	6.5
Retail trade	1,197	1,141	6.4	6.0	5.7	4.9	7.0	7.0
Finance, insurance, and real estate	241	218	3.3	3.0	3.6	2.1	3.1	3.5
Service industries	1,272	1,273	4.9	4.9	4.7	5.2	5.1	4.7
Professional services	432	450	3.0	3.0	2.4	2.8	3.3	3.1
Other service industries	840	823	7.4	7.3	6.5	7.1	8.2	7.5
Agricultural wage and salary workers	173	172	9.4	9.2	9.1	9.2	10.4	8.9
Government, self-employed, and unpaid family workers	623	662	2.2	2.3	2.0	2.2	2.4	2.3
No previous work experience	678	695	-	-	-	-	-	-

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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	
	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
NUMBER OF UNEMPLOYED												
Total unemployed	6,182	6,222	2,618	2,606	2,430	2,494	1,134	1,122	4,572	4,489	1,434	1,516
Job losers	2,641	2,625	1,632	1,604	830	849	180	171	1,962	1,942	618	615
On layoff	691	620	440	365	217	231	34	25	550	509	127	91
Other job losers	1,950	2,004	1,192	1,239	613	619	146	146	1,412	1,432	491	524
Job leavers	1,059	1,052	421	381	457	459	182	212	851	823	177	187
Reentrants	1,805	1,933	486	522	1,004	1,033	316	378	1,295	1,367	448	482
New entrants	676	613	79	99	140	152	457	362	465	357	191	232
PERCENT DISTRIBUTION												
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	42.7	42.2	62.3	61.6	34.1	34.1	15.9	15.3	42.9	43.3	43.1	40.6
On layoff	11.2	10.0	16.8	14.0	8.9	9.2	3.0	2.2	12.0	11.3	8.9	6.0
Other job losers	31.5	32.2	45.5	47.6	25.2	24.8	12.9	13.0	30.9	31.9	34.2	34.6
Job leavers	17.1	16.9	16.1	14.6	18.8	18.4	16.0	18.9	18.6	18.3	12.4	12.3
Reentrants	29.2	31.1	18.6	20.0	41.3	41.4	27.8	33.7	28.3	30.5	31.2	31.8
New entrants	10.9	9.9	3.0	3.8	5.8	6.1	40.3	32.2	10.2	7.9	13.3	15.3
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	2.2	2.1	2.6	2.5	1.6	1.6	2.3	2.3	1.8	1.8	4.6	4.6
Job leavers .....	.9	.8	.7	.6	.9	.9	2.4	2.8	.8	.8	1.3	1.4
Reentrants	1.5	1.6	.8	.8	1.9	2.0	4.2	5.0	1.2	1.3	3.4	3.6
New entrants .....	.6	.5	.1	.2	.3	.3	6.0	4.8	.4	.3	1.4	1.7

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

(Percent distribution)

Reason, sex, and age	October 1989						
	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	6,222	100.0	50.3	29.9	19.7	10.0	9.7
Job losers	2,625	100.0	44.3	30.4	25.4	12.5	12.9
On layoff	620	100.0	60.6	24.1	15.3	10.0	5.3
Other job losers	2,004	100.0	39.2	32.3	28.5	13.3	15.2
Job leavers	1,052	100.0	55.5	30.8	13.7	6.9	6.8
Reentrants	1,933	100.0	54.8	30.2	15.0	7.6	7.4
New entrants	613	100.0	53.3	25.7	21.0	12.5	8.5
Men, 20 years and over	2,606	100.0	42.9	29.6	27.5	12.0	15.4
Job losers	1,604	100.0	43.1	29.2	27.7	11.7	16.1
On layoff	365	100.0	63.4	23.3	13.3	8.1	5.2
Other job losers	1,239	100.0	37.1	30.9	32.0	12.7	19.3
Job leavers	381	100.0	44.4	31.7	23.9	11.5	12.3
Reentrants	522	100.0	42.8	30.8	26.3	11.8	14.5
New entrants	99	100.0	34.3	22.7	43.0	21.2	21.9
Women, 20 years and over	2,494	100.0	53.2	31.2	15.6	9.1	6.5
Job losers	849	100.0	43.1	32.4	24.6	15.5	9.1
On layoff	231	100.0	55.4	25.7	18.8	13.9	5.0
Other job losers	619	100.0	38.5	34.9	26.7	16.1	10.6
Job leavers	459	100.0	57.6	33.6	8.8	4.5	4.3
Reentrants	1,033	100.0	58.5	30.4	11.1	5.7	5.3
New entrants	152	100.0	60.2	23.3	16.5	9.7	6.7
Both sexes, 16 to 19 years	1,122	100.0	61.3	27.7	11.0	7.4	3.6
Job losers	171	100.0	61.5	31.5	7.0	5.2	1.8
On layoff	25	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	146	100.0	60.5	33.2	6.3	5.7	.6
Job leavers	212	100.0	70.7	23.2	6.1	3.7	2.5
Reentrants	378	100.0	61.2	28.7	10.0	6.8	3.2
New entrants	362	100.0	55.7	27.5	16.9	11.2	5.6

¹ 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	
	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
Total, 16 years and over	6,182	6,222	100.0	100.0	4,694	4,751	100.0	100.0
Less than 5 weeks	3,056	3,132	49.4	50.3	2,102	2,170	44.8	45.7
5 to 14 weeks	1,747	1,862	28.3	29.9	1,380	1,477	29.4	31.1
5 to 10 weeks	1,380	1,441	22.3	23.2	1,058	1,115	22.5	23.5
11 to 14 weeks	367	421	5.9	6.8	322	361	6.9	7.6
15 weeks and over	1,379	1,228	22.3	19.7	1,213	1,105	25.8	23.3
15 to 26 weeks	660	624	10.7	10.0	570	567	12.1	11.9
27 weeks and over	719	605	11.6	9.7	643	538	13.7	11.3
27 to 51 weeks	275	252	4.4	4.0	242	230	5.2	4.8
52 weeks and over	444	353	7.2	5.7	401	308	8.5	6.5
Average (mean) duration, in weeks	13.1	11.6	-	-	14.8	13.0	-	-
Median duration, in weeks	5.1	4.5	-	-	6.2	5.5	-	-

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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	
								Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
	October 1989										
Total, 16 years and over	6,222	3,132	1,862	624	605	11.6	4.5	49.4	50.3	22.3	19.7
16 to 19 years	1,122	688	311	83	41	7.0	3.7	60.3	61.3	12.2	11.0
20 to 24 years	1,148	617	346	117	67	9.3	4.2	56.1	53.8	18.5	16.0
25 to 34 years	1,759	881	522	157	200	12.0	4.5	47.8	50.1	21.1	20.3
35 to 44 years	1,129	461	373	136	159	15.0	6.6	44.3	40.8	27.3	26.1
45 to 54 years	620	292	178	70	80	14.3	5.3	38.3	47.1	35.3	24.1
55 to 64 years	345	149	98	52	47	15.5	6.7	37.3	43.1	32.2	28.6
65 years and over	100	44	35	10	11	13.9	5.0	38.6	44.2	41.1	21.0
Men, 16 years and over	3,243	1,515	963	346	418	13.9	5.2	45.7	46.7	25.7	23.6
16 to 19 years	637	398	191	32	16	6.2	3.6	58.0	62.4	13.3	7.7
20 to 24 years	614	282	205	73	55	11.2	5.3	54.3	45.8	20.2	20.7
25 to 34 years	847	371	242	92	141	15.4	5.8	44.1	43.9	24.6	27.6
35 to 44 years	548	204	165	68	111	19.5	8.1	36.6	37.3	33.1	32.7
45 to 54 years	340	159	90	37	55	17.0	5.5	32.1	46.7	43.1	26.9
55 to 64 years	202	83	47	38	33	19.1	8.0	34.6	41.4	33.8	35.5
65 years and over	55	17	24	6	7	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	2,979	1,616	899	277	186	9.1	4.1	53.7	54.2	18.5	15.6
16 to 19 years	485	290	120	51	24	8.0	3.8	63.5	59.7	10.8	15.5
20 to 24 years	533	336	141	45	12	7.2	3.6	58.1	63.0	16.7	10.7
25 to 34 years	913	510	280	65	59	9.0	4.0	51.3	55.8	17.8	13.5
35 to 44 years	580	256	208	67	49	10.7	5.5	51.9	44.2	21.5	19.9
45 to 54 years	279	133	89	33	25	11.1	5.0	45.5	47.6	26.2	20.7
55 to 64 years	143	65	51	14	13	10.5	5.6	41.5	45.4	29.8	18.8
65 years and over	45	27	11	4	4	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,489	2,300	1,338	429	422	11.5	4.4	50.2	51.2	21.8	19.0
Men	2,393	1,128	717	247	301	14.0	5.2	45.2	47.2	26.5	22.9
Women	2,096	1,171	621	183	121	8.8	4.0	56.2	55.9	16.2	14.5
Black, 16 years and over	1,516	707	458	180	171	12.3	5.2	47.4	46.6	23.4	23.2
Men	735	317	217	92	109	14.3	5.9	47.2	43.2	24.2	27.4
Women	782	390	242	88	63	10.4	4.5	47.7	49.9	22.6	19.2
Men, 16 years and over:											
Married, spouse present	1,150	467	365	153	164	15.4	6.4	38.6	40.6	31.7	27.7
Widowed, divorced, or separated	390	178	91	49	72	17.6	7.3	41.9	45.6	29.0	31.0
Single (never married)	1,703	870	507	144	182	12.0	4.4	51.7	51.1	20.5	19.1
Women, 16 years and over:											
Married, spouse present	1,219	679	404	77	59	8.3	4.0	53.0	55.7	19.1	11.2
Widowed, divorced, or separated	635	299	191	80	65	11.7	5.1	50.8	47.1	21.0	22.8
Single (never married)	1,125	639	304	120	62	8.7	4.0	55.8	56.8	16.6	16.2

¹ Data not shown where base is less than 75,000.

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	
	October 1989							Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
OCCUPATION											
Managerial and professional specialty	593	249	218	54	72	13.2	6.0	40.1	42.0	25.1	21.2
Technical, sales, and administrative support	1,541	810	464	148	120	10.3	4.3	49.0	52.6	21.3	17.4
Service occupations	1,032	537	328	97	70	9.9	4.3	54.6	52.0	15.1	16.2
Precision production, craft, and repair	652	317	171	75	89	14.3	4.9	47.2	48.6	24.9	25.0
Operators, fabricators, and laborers	1,438	674	436	163	165	12.6	5.1	50.1	46.9	26.6	22.9
Farming, forestry, and fishing	233	154	48	8	24	10.6	3.4	46.8	66.1	16.5	13.3
INDUSTRY¹											
Agriculture	172	114	38	10	11	9.2	3.4	46.1	66.3	14.0	11.6
Construction	486	245	134	50	58	12.4	4.5	51.1	50.4	21.3	22.2
Manufacturing	1,143	526	335	144	138	12.9	5.3	45.6	46.0	28.1	24.7
Durable goods	639	296	178	87	78	13.4	5.3	35.8	46.3	35.6	25.8
Nondurable goods	505	231	157	58	59	12.2	5.4	57.2	45.7	19.2	23.2
Transportation and public utilities	274	138	77	25	34	13.2	4.5	43.3	50.4	30.5	21.5
Wholesale and retail trade	1,342	723	393	116	110	10.4	4.2	53.5	53.9	17.3	16.8
Finance and service industries	1,726	835	561	176	152	11.3	4.9	50.8	48.4	19.7	19.1
Public administration	152	75	51	12	14	11.9	4.6	44.5	49.3	28.8	17.1
No previous work experience	695	376	180	76	62	11.9	4.2	51.6	54.1	25.2	19.9

¹ 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	October 1989								
	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	
Total, 16 years and over	6,222	5,474	20.6	8.5	73.8	40.0	19.5	3.9	1.66
16 to 19 years	1,122	1,074	11.1	4.4	78.5	25.6	17.4	3.2	1.40
20 to 24 years	1,148	1,044	19.0	8.2	76.7	41.5	16.5	3.4	1.65
25 to 34 years	1,759	1,509	26.8	8.3	72.0	44.6	20.6	3.3	1.76
35 to 44 years	1,129	1,003	23.3	10.4	72.4	44.9	20.9	4.3	1.76
45 to 54 years	620	484	24.0	13.7	73.1	45.4	22.5	5.5	1.84
55 to 64 years	345	275	17.9	9.3	63.3	38.8	19.2	8.1	1.56
65 years and over	100	86	6.3	11.6	67.6	34.1	33.2	.2	1.53
Men, 16 years and over	3,243	2,798	22.3	9.7	73.9	38.1	24.0	4.3	1.72
16 to 19 years	637	598	12.3	3.7	74.8	23.8	21.2	3.6	1.39
20 to 24 years	614	558	21.4	8.5	76.5	38.4	20.7	3.1	1.69
25 to 34 years	847	708	30.2	11.2	73.0	44.0	25.6	3.2	1.87
35 to 44 years	548	475	26.0	12.5	73.9	44.6	29.9	4.6	1.92
45 to 54 years	340	247	26.4	15.9	77.8	42.5	22.5	7.9	1.93
55 to 64 years	202	164	15.2	10.6	60.5	36.8	16.4	11.5	1.51
65 years and over	55	48	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	2,979	2,676	18.8	7.2	73.8	41.9	14.9	3.4	1.60
16 to 19 years	485	476	9.6	5.3	83.2	27.8	12.6	2.7	1.41
20 to 24 years	533	485	16.3	7.9	76.9	45.1	11.6	3.8	1.62
25 to 34 years	913	801	23.9	5.8	71.1	45.2	16.2	3.4	1.65
35 to 44 years	580	528	20.9	8.4	71.1	45.1	12.7	4.0	1.62
45 to 54 years	279	237	21.5	11.5	68.3	48.3	22.5	3.0	1.75
55 to 64 years	143	111	21.8	7.3	67.3	41.9	23.2	3.2	1.65
65 years and over	45	38	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	4,489	3,873	20.4	8.6	74.5	41.2	19.7	4.0	1.68
Men	2,393	2,023	22.6	10.6	75.7	37.5	23.9	4.4	1.75
Women	2,096	1,850	17.9	6.4	73.3	45.3	15.0	3.6	1.61
Black, 16 years and over	1,516	1,408	21.0	8.1	72.6	35.8	18.6	3.5	1.60
Men	735	680	21.0	7.7	70.9	37.8	23.1	3.7	1.64
Women	782	729	20.9	8.5	74.2	33.9	14.4	3.2	1.55

¹ 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	October 1989								
	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	
Total, 16 years and over	6,222	5,474	20.6	8.5	73.8	40.0	19.5	3.9	1.66
Job losers ¹	2,625	1,977	28.1	9.0	77.5	44.5	23.8	3.5	1.86
Job leavers	1,052	1,024	15.5	8.2	73.2	41.5	14.4	3.4	1.56
Reentrants	1,933	1,865	16.8	9.0	70.7	37.6	17.6	5.3	1.57
New entrants	613	608	16.5	6.0	72.8	29.7	20.4	1.9	1.47
Men, 16 years and over	3,243	2,798	22.3	9.7	73.9	38.1	24.0	4.3	1.72
Job losers ¹	1,711	1,310	27.2	10.1	78.0	41.1	27.0	4.0	1.87
Job leavers	496	484	16.5	8.9	73.5	37.7	17.5	4.1	1.58
Reentrants	745	715	19.9	11.3	66.8	36.8	23.2	6.3	1.64
New entrants	291	290	15.1	4.8	73.4	28.3	23.2	1.6	1.46
Women, 16 years and over	2,979	2,676	18.8	7.2	73.8	41.9	14.9	3.4	1.60
Job losers ¹	913	668	29.8	6.8	76.4	51.2	17.5	2.5	1.84
Job leavers	556	540	14.5	7.5	72.9	44.9	11.5	2.7	1.54
Reentrants	1,188	1,150	14.8	7.5	73.1	38.2	14.1	4.6	1.52
New entrants	322	318	17.7	7.0	72.2	31.1	18.0	2.1	1.48

¹ 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.

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

(In thousands)

Industry and age	Total		Men		Women	
	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
All industries	116,250	118,194	63,658	64,684	52,592	53,509
16 to 19 years	6,465	6,481	3,252	3,317	3,213	3,164
16 to 17 years	2,532	2,525	1,288	1,269	1,243	1,256
18 to 19 years	3,934	3,956	1,964	2,048	1,970	1,908
20 to 24 years	13,195	12,743	6,861	6,706	6,334	6,037
25 to 54 years	81,685	83,963	44,982	46,115	36,704	37,848
25 to 34 years	33,960	34,417	18,987	19,104	14,973	15,313
35 to 44 years	28,969	30,003	15,764	16,311	13,204	13,692
45 to 54 years	18,757	19,542	10,230	10,699	8,527	8,843
55 to 64 years	11,621	11,629	6,616	6,591	5,005	5,039
55 to 59 years	6,940	6,889	3,943	3,882	2,996	3,008
60 to 64 years	4,681	4,740	2,672	2,709	2,009	2,031
65 years and over	3,284	3,377	1,948	1,956	1,336	1,422
Agriculture	3,316	3,309	2,598	2,589	718	720
16 to 19 years	238	221	198	188	40	33
16 to 17 years	106	106	85	92	22	14
18 to 19 years	132	116	113	96	19	20
20 to 24 years	320	344	268	276	52	68
25 to 54 years	1,955	1,997	1,480	1,515	476	482
25 to 34 years	800	810	643	632	157	177
35 to 44 years	645	713	461	533	184	180
45 to 54 years	510	474	376	349	134	125
55 to 64 years	471	442	369	362	102	79
55 to 59 years	271	229	219	185	52	44
60 to 64 years	200	212	150	177	49	35
65 years and over	332	305	283	248	49	57
Nonagricultural industries	112,934	114,885	61,060	62,096	51,874	52,789
16 to 19 years	6,228	6,260	3,055	3,129	3,173	3,130
16 to 17 years	2,426	2,419	1,204	1,177	1,222	1,242
18 to 19 years	3,802	3,841	1,851	1,952	1,951	1,889
20 to 24 years	12,874	12,400	6,592	6,430	6,282	5,969
25 to 54 years	79,731	81,966	43,501	44,600	36,229	37,365
25 to 34 years	33,159	33,608	18,344	18,472	14,816	15,136
35 to 44 years	28,323	29,290	15,303	15,778	13,020	13,512
45 to 54 years	18,248	19,068	9,854	10,350	8,393	8,718
55 to 64 years	11,150	11,188	6,247	6,228	4,903	4,959
55 to 59 years	6,668	6,660	3,725	3,697	2,944	2,963
60 to 64 years	4,481	4,528	2,522	2,532	1,959	1,996
65 years and over	2,952	3,072	1,665	1,708	1,287	1,365

**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	
	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
Total	116,250	118,194	63,658	64,684	60,405	61,367	52,592	53,509	49,379	50,345
Managerial and professional specialty	29,616	31,224	16,285	17,023	16,218	16,903	13,331	14,201	13,215	14,068
Executive, administrative, and managerial	14,230	15,146	8,651	9,144	8,624	9,093	5,578	6,002	5,535	5,961
Officials and administrators, public administration	516	627	293	372	292	372	222	255	222	255
Other executive, administrative, and managerial	9,985	10,523	6,547	6,758	6,521	6,711	3,438	3,765	3,409	3,738
Management-related occupations	3,729	3,996	1,811	2,014	1,811	2,010	1,918	1,982	1,904	1,968
Professional specialty	15,387	16,078	7,634	7,879	7,594	7,810	7,753	8,199	7,680	8,107
Engineers	1,786	1,860	1,684	1,707	1,682	1,707	102	154	102	150
Mathematical and computer scientists	756	942	465	585	465	580	291	357	288	354
Natural scientists	405	371	306	266	306	262	100	106	100	106
Health diagnosing occupations	880	889	714	725	714	726	167	163	167	163
Health assessment and treating occupations	2,209	2,260	311	349	308	345	1,899	1,910	1,898	1,905
Teachers, college and university	743	780	443	490	443	490	300	290	295	286
Teachers, except college and university	3,985	4,202	1,071	1,095	1,061	1,080	2,914	3,107	2,879	3,072
Lawyers and judges	766	844	614	644	614	644	152	200	147	197
Other professional specialty occupations	3,855	3,930	2,027	2,017	2,000	1,976	1,828	1,912	1,804	1,873
Technical, sales, and administrative support	35,819	36,009	12,602	12,621	12,047	11,926	23,216	23,388	21,452	21,624
Technicians and related support	3,604	3,543	1,831	1,850	1,810	1,835	1,773	1,693	1,752	1,667
Health technologists and technicians	1,369	1,274	248	210	246	208	1,121	1,064	1,108	1,052
Engineering and science technicians	1,101	1,141	875	907	862	896	226	234	220	226
Technicians, except health, engineering, and science	1,134	1,128	708	733	702	730	426	396	424	389
Sales occupations	13,879	14,006	7,069	7,131	6,723	6,697	6,811	6,875	5,738	5,826
Supervisors and proprietors	3,643	3,933	2,407	2,562	2,401	2,532	1,236	1,371	1,204	1,338
Sales representatives, finance and business services	2,540	2,303	1,469	1,316	1,449	1,299	1,071	987	1,022	952
Sales representatives, commodities, except retail	1,543	1,618	1,271	1,275	1,266	1,274	272	344	269	336
Sales workers, retail and personal services	6,090	6,084	1,908	1,960	1,594	1,574	4,182	4,124	3,197	3,152
Sales-related occupations	63	68	13	18	13	18	50	50	46	48
Administrative support, including clerical	18,336	18,460	3,702	3,640	3,514	3,394	14,633	14,820	13,961	14,132
Supervisors	716	749	315	309	313	308	401	441	398	439
Computer equipment operators	898	815	294	309	281	296	604	506	574	488
Secretaries, stenographers, and typists	4,876	4,823	84	95	84	86	4,792	4,728	4,609	4,578
Financial records processing	2,477	2,424	219	196	215	191	2,258	2,228	2,200	2,192
Mail and message distributing	980	927	623	600	602	583	357	326	341	315
Other administrative support, including clerical	8,389	8,722	2,167	2,131	2,018	1,930	6,222	6,591	5,839	6,121
Service occupations	15,409	15,407	5,954	6,030	5,091	5,072	9,455	9,377	8,419	8,417
Private household	915	798	30	28	18	16	885	771	756	650
Protective service	1,990	1,883	1,718	1,588	1,683	1,550	273	295	262	286
Service, except private household and protective	12,503	12,726	4,206	4,414	3,390	3,506	8,298	8,312	7,402	7,481
Food service	5,137	5,335	1,898	2,134	1,282	1,424	3,239	3,200	2,608	2,621
Health service	1,953	1,965	196	188	183	173	1,757	1,777	1,687	1,696
Cleaning and building service	3,018	3,040	1,694	1,718	1,552	1,577	1,324	1,322	1,256	1,270
Personal service	2,395	2,387	417	374	374	332	1,978	2,013	1,850	1,894
Precision production, craft, and repair	13,663	13,930	12,453	12,703	12,132	12,433	1,210	1,226	1,167	1,193
Mechanics and repairers	4,333	4,482	4,192	4,312	4,077	4,217	140	170	136	170
Construction trades	5,113	5,404	5,005	5,289	4,864	5,154	108	114	104	111
Other precision production, craft, and repair	4,217	4,044	3,255	3,102	3,191	3,062	962	942	927	912
Operators, fabricators, and laborers	18,206	18,145	13,431	13,402	12,241	12,366	4,775	4,743	4,557	4,509
Machine operators, assemblers, and inspectors	8,271	8,160	4,821	4,854	4,614	4,686	3,450	3,306	3,357	3,188
Manufacturing industries	6,862	6,704	3,971	3,947	3,831	3,825	2,891	2,757	2,825	2,670
Durable goods	3,790	3,675	2,607	2,513	2,524	2,451	1,182	1,161	1,160	1,135
Nondurable goods	3,072	3,030	1,364	1,433	1,307	1,375	1,708	1,596	1,665	1,534
Nonmanufacturing industries	1,409	1,456	850	907	783	861	559	549	533	518
Transportation and material moving occupations	4,960	5,113	4,487	4,629	4,362	4,494	473	484	462	465
Motor vehicle operators	3,707	3,768	3,278	3,336	3,167	3,216	429	432	418	415
Other transportation and material moving occupations	1,253	1,345	1,209	1,293	1,195	1,278	44	52	44	50
Handlers, equipment cleaners, helpers, and laborers	4,975	4,872	4,122	3,919	3,265	3,186	853	953	738	856
Construction laborers	902	733	881	705	786	651	22	28	19	24
Other handlers, equipment cleaners, helpers, and laborers	4,072	4,139	3,241	3,213	2,479	2,535	831	926	719	831
Farming, forestry, and fishing	3,537	3,478	2,932	2,905	2,676	2,667	605	573	569	534
Farm operators and managers	1,350	1,338	1,135	1,125	1,131	1,098	215	212	213	208
Other farming, forestry, and fishing occupations	2,187	2,141	1,797	1,780	1,546	1,570	390	361	356	326

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
TOTAL						
Total, 16 years and over (thousands)	116,250	118,194	63,658	64,684	52,592	53,509
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	25.5	26.4	25.6	26.3	25.3	26.5
Executive, administrative, and managerial	12.2	12.8	13.6	14.1	10.6	11.2
Professional specialty	13.2	13.6	12.0	12.2	14.7	15.3
Technical, sales, and administrative support	30.8	30.5	19.8	19.5	44.1	43.7
Technicians and related support	3.1	3.0	2.9	2.9	3.4	3.2
Sales occupations	11.9	11.9	11.1	11.0	13.0	12.8
Administrative support, including clerical	15.8	15.6	5.8	5.6	27.8	27.7
Service occupations	13.3	13.0	9.4	9.3	18.0	17.5
Private household .....	.8	.7	(¹)	-	1.7	1.4
Protective service	1.7	1.6	2.7	2.5	.5	.6
Service, except private household and protective	10.8	10.8	6.6	6.8	15.8	15.5
Precision production, craft, and repair	11.8	11.8	19.6	19.6	2.3	2.3
Operators, fabricators, and laborers	15.7	15.4	21.1	20.7	9.1	8.9
Machine operators, assemblers, and inspectors	7.1	6.9	7.6	7.5	6.6	6.2
Transportation and material moving occupations	4.3	4.3	7.0	7.2	.9	.9
Handlers, equipment cleaners, helpers, and laborers	4.3	4.1	6.5	6.1	1.6	1.8
Farming, forestry, and fishing	3.0	2.9	4.6	4.5	1.2	1.1
White						
Total, 16 years and over (thousands)	100,723	102,291	55,789	56,639	44,934	45,652
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	26.7	27.5	26.8	27.5	26.5	27.5
Executive, administrative, and managerial	13.0	13.5	14.5	14.9	11.2	11.7
Professional specialty	13.6	14.0	12.3	12.6	15.3	15.8
Technical, sales, and administrative support	31.1	30.8	20.0	19.7	44.8	44.6
Technicians and related support	3.1	3.0	2.9	2.9	3.3	3.1
Sales occupations	12.5	12.4	11.8	11.7	13.3	13.4
Administrative support, including clerical	15.6	15.4	5.3	5.2	28.2	28.2
Service occupations	12.0	11.8	8.4	8.2	16.5	16.2
Private household .....	.7	.5	(¹)	-	1.5	1.2
Protective service	1.6	1.5	2.5	2.3	.4	.5
Service, except private household and protective	9.7	9.7	5.8	5.9	14.6	14.5
Precision production, craft, and repair	12.1	12.2	20.1	20.2	2.3	2.2
Operators, fabricators, and laborers	14.8	14.5	19.9	19.6	8.6	8.2
Machine operators, assemblers, and inspectors	6.7	6.5	7.2	7.2	6.1	5.7
Transportation and material moving occupations	4.1	4.2	6.7	6.8	.9	.9
Handlers, equipment cleaners, helpers, and laborers	4.0	3.8	6.0	5.6	1.6	1.6
Farming, forestry, and fishing	3.2	3.2	4.8	4.7	1.3	1.2
Black						
Total, 16 years and over (thousands)	11,873	11,988	5,906	5,940	5,967	6,048
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	14.4	16.3	11.9	14.0	17.0	18.6
Executive, administrative, and managerial	6.2	7.6	5.5	7.4	7.0	7.7
Professional specialty	8.2	8.8	6.4	6.5	10.0	10.9
Technical, sales, and administrative support	28.3	27.8	17.3	17.2	39.2	38.3
Technicians and related support	2.8	2.8	2.1	2.3	3.5	3.3
Sales occupations	7.7	7.5	5.1	5.5	10.3	9.5
Administrative support, including clerical	17.7	17.6	10.0	9.4	25.3	25.5
Service occupations	23.2	23.2	17.4	18.7	29.0	27.7
Private household	1.7	1.7	.2	.1	3.3	3.3
Protective service	2.9	2.6	4.5	4.3	1.3	.9
Service, except private household and protective	18.6	18.9	12.6	14.3	24.4	23.4
Precision production, craft, and repair	8.9	8.7	15.9	15.2	2.0	2.2
Operators, fabricators, and laborers	23.4	22.4	34.3	32.0	12.6	12.9
Machine operators, assemblers, and inspectors	10.6	9.8	11.7	10.5	9.6	9.1
Transportation and material moving occupations	5.9	6.0	10.7	11.2	1.2	.9
Handlers, equipment cleaners, helpers, and laborers	6.8	6.6	11.9	10.3	1.9	2.9
Farming, forestry, and fishing	1.7	1.6	3.2	2.9	.3	.3

¹ Less than 0.05 percent.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Age and sex	October 1989								
	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	105,830	1,001	17,846	86,983	8,784	271	1,707	1,481	120
16 to 19 years	6,198	157	284	5,757	50	11	164	37	20
16 to 17 years	2,402	121	62	2,220	9	8	69	19	17
18 to 19 years	3,796	37	223	3,536	41	3	95	17	3
20 to 24 years	12,084	74	1,081	10,929	305	10	289	43	12
25 to 34 years	31,608	149	4,445	27,015	1,942	58	530	259	22
35 to 44 years	26,554	177	5,629	20,749	2,647	89	338	356	20
45 to 54 years	17,085	156	3,888	13,041	1,940	43	189	269	17
55 to 64 years	9,861	171	2,091	7,599	1,288	39	126	303	13
55 to 59 years	5,920	85	1,284	4,551	718	23	70	151	8
60 to 64 years	3,941	86	807	3,048	570	16	56	151	5
65 years and over	2,440	117	428	1,895	613	20	73	216	17
Men, 16 years and over	56,345	139	8,183	48,022	5,711	40	1,346	1,211	32
16 to 19 years	3,098	35	105	2,959	27	4	139	34	15
16 to 17 years	1,171	26	24	1,121	3	3	61	17	14
18 to 19 years	1,927	9	81	1,838	24	1	78	17	2
20 to 24 years	6,222	13	488	5,722	202	6	232	37	7
25 to 34 years	17,261	23	2,095	15,144	1,201	10	412	218	3
35 to 44 years	14,045	22	2,526	11,498	1,731	2	256	276	1
45 to 54 years	9,096	16	1,808	7,273	1,253	2	146	203	-
55 to 64 years	5,361	20	961	4,380	857	11	105	257	-
55 to 59 years	3,225	7	584	2,633	467	4	58	128	-
60 to 64 years	2,136	13	377	1,747	390	6	48	129	1
65 years and over	1,262	12	202	1,048	441	5	56	187	5
Women, 16 years and over	49,486	861	9,663	38,961	3,073	231	361	270	89
16 to 19 years	3,100	122	180	2,798	23	7	26	3	5
16 to 17 years	1,231	94	38	1,099	5	5	8	2	3
18 to 19 years	1,869	28	142	1,699	18	2	17	1	1
20 to 24 years	5,862	61	594	5,208	103	4	57	6	5
25 to 34 years	14,347	126	2,350	11,871	741	48	118	41	18
35 to 44 years	12,509	155	3,103	9,251	916	87	81	79	19
45 to 54 years	7,989	141	2,080	5,768	687	41	42	66	17
55 to 64 years	4,500	151	1,130	3,219	431	28	20	46	13
55 to 59 years	2,695	78	699	1,918	251	18	12	24	8
60 to 64 years	1,806	74	431	1,301	181	10	8	22	5
65 years and over	1,178	105	226	847	172	15	16	29	12

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-25. Employed civilians by industry and occupation

(In thousands)

Industry	October 1989												
	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 ¹		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture	3,309	113	72	21	22	112		29	25	12	80	20	2,803
Mining	674	94	52	14	12	73		3	218	44	135	27	1
Construction	7,908	1,025	153	40	62	437		37	4,622	122	582	814	16
Manufacturing	21,596	2,663	1,808	736	799	2,397	-	360	4,002	6,704	839	1,206	81
Durable goods	12,862	1,616	1,270	531	338	1,383		207	2,743	3,675	448	574	78
Nondurable goods	8,734	1,047	538	205	461	1,014		154	1,259	3,030	391	632	2
Transportation and public utilities	8,027	927	474	263	307	2,136		245	1,255	93	1,852	470	6
Wholesale and retail trade	24,521	2,116	480	108	1,127	2,481	-	4,412	1,611	305	997	1,833	53
Wholesale trade	4,840	550	111	33	1,921	852		36	366	147	477	316	29
Retail trade	19,681	1,566	369	74	8,206	1,629		4,375	1,244	158	519	1,517	24
Finance, insurance, and real estate	7,934	2,140	220	124	1,836	3,082	-	265	129	21	15	28	74
Services	38,702	4,814	12,032	2,012	831	6,287	798	7,918	1,852	829	539	411	377
Private households	1,007	2	7	3	-	7	798	81	12	-	3	26	70
Other service industries	37,695	4,812	12,025	2,010	831	6,280	-	7,837	1,840	830	536	385	307
Professional services	25,322	2,689	10,636	1,643	135	4,611		4,545	371	237	309	72	75
Public administration	5,524	1,253	787	226	10	1,455		1,339	216	31	76	62	69

¹ 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					
	Oct. 1988	Oct. 1989	Total		Wage and salary workers ¹			
			Oct. 1988	Oct. 1989	Paid absences		Unpaid absences	
					Oct. 1988	Oct. 1989	Oct. 1988	Oct. 1989
Total, 16 years and over	4,619	4,727	4,525	4,630	2,415	2,396	1,712	1,785
Vacation	2,205	2,216	2,177	2,176	1,605	1,579	407	409
Illness	1,320	1,407	1,299	1,376	537	555	700	705
Bad weather	13	30	11	30	(²)	(²)	(²)	(²)
Industrial dispute	32	106	32	106	(²)	(²)	(²)	(²)
All other reasons	1,049	968	1,006	941	273	262	605	671
Men, 16 years and over	2,307	2,469	2,231	2,394	1,284	1,285	729	852
Vacation	1,223	1,276	1,203	1,247	914	934	192	206
Illness	625	703	608	679	267	266	318	350
All other reasons ³	460	489	420	467	103	85	219	296
Women, 16 years and over	2,312	2,258	2,293	2,236	1,131	1,110	983	933
Vacation	982	939	973	929	692	645	216	203
Illness	695	704	691	697	270	289	383	355
All other reasons ³	635	615	630	610	169	175	385	375

¹ Excludes private household workers.

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

³ 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.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

Hours of work	October 1989					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	113,466	3,211	110,255	100.0	100.0	100.0
1 to 34 hours	29,616	790	28,826	26.1	24.6	26.1
1 to 4 hours	852	31	821	.8	1.0	.7
5 to 14 hours	4,659	161	4,498	4.1	5.0	4.1
15 to 29 hours	13,363	399	12,964	11.8	12.4	11.8
30 to 34 hours	10,743	200	10,543	9.5	6.2	9.6
35 hours and over	83,850	2,421	81,429	73.9	75.4	73.9
35 to 39 hours	6,881	137	6,744	6.1	4.3	6.1
40 hours	41,787	568	41,219	36.8	17.7	37.4
41 hours and over	35,182	1,716	33,466	31.0	53.4	30.4
41 to 48 hours	12,054	240	11,814	10.6	7.5	10.7
49 to 59 hours	12,984	457	12,527	11.4	14.2	11.4
60 hours and over	10,144	1,019	9,125	8.9	31.7	8.3
Average hours, total at work	39.5	47.9	39.3	-	-	-
Average hours, workers on full-time schedules	43.9	55.2	43.5	-	-	-

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	October 1989					
	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	29,616	10,431	19,185	28,826	10,181	18,645
Economic reasons	4,435	1,562	2,873	4,216	1,448	2,768
Slack work	2,240	1,272	968	2,084	1,166	918
Material shortages or repairs to plant and equipment	73	73	-	68	68	-
New job started during week	159	159	-	158	158	-
Job terminated during week	58	58	-	56	56	-
Could find only part-time work	1,905	-	1,905	1,851	-	1,851
Other reasons	25,182	8,869	16,313	24,610	8,734	15,876
Does not want, or unavailable for, full-time work	13,696	-	13,696	13,359	-	13,359
Vacation	1,542	1,542	-	1,526	1,526	-
Illness	1,457	1,305	152	1,427	1,287	140
Bad weather	184	184	-	146	146	-
Industrial dispute	19	19	-	19	19	-
Legal or religious holiday	4,244	4,244	-	4,236	4,236	-
Full time for this job	1,823	-	1,823	1,780	-	1,780
All other reasons	2,216	1,575	641	2,118	1,520	598
Average hours:						
Economic reasons	22.5	24.7	21.3	22.5	24.9	21.3
Other reasons	22.4	28.2	19.3	22.5	28.2	19.3
Worked 30 to 34 hours:						
Economic reasons	1,552	740	812	1,487	698	789
Other reasons	9,191	6,084	3,107	9,056	6,029	3,027

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

(Numbers in thousands)

Industry	October 1989								
	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	110,255	4,216	15,876	90,163	56,697	11,814	21,652	39.3	43.5
Wage and salary workers	101,610	3,622	14,281	83,707	53,813	11,231	18,663	39.1	43.2
Mining	600	12	14	575	287	91	197	46.4	47.6
Construction	6,119	305	265	5,549	3,601	658	1,289	41.3	43.4
Manufacturing	20,326	412	727	19,187	11,958	3,256	3,973	42.1	43.3
Durable goods	12,097	167	293	11,636	7,208	1,963	2,465	42.6	43.4
Nondurable goods	8,229	245	434	7,550	4,751	1,292	1,507	41.5	43.2
Transportation and public utilities	7,182	139	440	6,604	4,119	857	1,628	42.3	44.2
Wholesale and retail trade	21,670	1,185	5,296	15,189	8,830	2,394	3,964	37.1	44.3
Finance, insurance, and real estate	7,000	79	650	6,271	4,293	690	1,289	39.7	41.9
Service industries	33,455	1,443	6,663	25,349	16,908	2,880	5,561	37.2	42.9
Private households	971	128	458	385	252	38	95	26.1	45.4
All other industries	32,484	1,315	6,205	24,964	16,656	2,842	5,466	37.5	42.8
Public administration	5,258	48	226	4,984	3,816	405	763	39.6	40.7
Self-employed workers	8,374	578	1,473	6,323	2,800	569	2,954	40.9	48.2
Unpaid family workers	271	16	122	133	84	14	35	33.1	43.9

**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	October 1989							
	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		
TOTAL								
Total, 16 years and over	110,255	4,216	15,876	90,163	56,697	33,466	39.3	43.5
16 to 19 years	6,125	381	3,773	1,972	1,512	459	24.6	40.2
16 to 17 years	2,352	67	2,107	178	144	34	17.0	37.4
18 to 19 years	3,773	314	1,666	1,793	1,369	425	29.3	40.5
20 years and over	104,130	3,835	12,104	88,191	55,185	33,006	40.1	43.6
20 to 24 years	12,039	710	2,224	9,105	6,273	2,832	37.0	42.4
25 years and over	92,091	3,125	9,879	79,086	48,912	30,175	40.5	43.8
25 to 44 years	60,507	2,040	5,369	53,098	32,280	20,818	41.1	43.9
45 to 64 years	28,718	958	3,147	24,613	15,704	8,909	40.3	43.5
65 years and over	2,866	128	1,363	1,374	927	447	29.6	42.7
Men, 16 years and over	59,702	1,936	4,725	53,041	29,556	23,485	42.4	45.2
16 to 19 years	3,059	198	1,736	1,125	839	286	26.2	41.0
16 to 17 years	1,140	27	996	117	91	26	18.4	38.8
18 to 19 years	1,920	171	741	1,008	748	260	30.8	41.3
20 years and over	56,643	1,739	2,988	51,916	28,716	23,200	43.2	45.3
20 to 24 years	6,257	378	908	4,971	3,151	1,820	38.8	43.6
25 years and over	50,385	1,361	2,080	46,945	25,565	21,380	43.8	45.4
25 to 44 years	33,081	923	723	31,435	16,627	14,808	44.6	45.7
45 to 64 years	15,722	387	651	14,684	8,420	6,264	43.4	44.9
65 years and over	1,582	51	706	825	516	309	31.5	43.8
Women, 16 years and over	50,553	2,280	11,152	37,122	27,141	9,980	35.6	41.2
16 to 19 years	3,066	183	2,036	846	673	173	22.9	39.1
16 to 17 years	1,212	40	1,111	61	53	8	15.6	(¹)
18 to 19 years	1,853	143	925	786	620	165	27.7	39.4
20 years and over	47,487	2,096	9,115	36,275	26,469	9,807	36.4	41.3
20 to 24 years	5,782	332	1,316	4,134	3,122	1,012	35.0	41.0
25 years and over	41,705	1,764	7,799	32,142	23,347	8,795	36.6	41.3
25 to 44 years	27,426	1,116	4,646	21,664	15,654	6,010	37.0	41.2
45 to 64 years	12,996	570	2,496	9,930	7,283	2,647	36.6	41.4
65 years and over	1,284	77	657	550	411	138	27.2	41.1
RACE								
White, 16 years and over	95,166	3,387	14,250	77,529	47,181	30,349	39.4	43.8
Men	52,075	1,566	4,152	46,357	24,894	21,463	42.6	45.4
Women	43,091	1,821	10,098	31,172	22,286	8,886	35.5	41.4
Black, 16 years and over	11,347	695	1,113	9,539	7,349	2,190	38.1	41.4
Men	5,623	310	377	4,936	3,531	1,405	40.1	42.8
Women	5,724	385	736	4,603	3,819	784	36.2	40.0
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	37,846	843	1,472	35,531	18,830	16,702	44.2	45.7
Widowed, divorced, or separated	6,259	210	268	5,781	3,266	2,516	43.2	45.0
Single (never married)	15,597	884	2,984	11,728	7,460	4,268	37.5	43.5
Women, 16 years and over:								
Married, spouse present	28,082	1,099	6,417	20,566	15,286	5,280	35.5	41.0
Widowed, divorced, or separated	10,127	544	1,267	8,316	5,826	2,490	38.2	41.9
Single (never married)	12,344	637	3,467	8,240	6,030	2,210	33.6	41.2

¹ 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	October 1989								
	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 over¹	110,089	4,196	15,830	90,063	56,515	11,824	21,725	39.3	43.6
Managerial and professional specialty	30,013	483	2,927	26,604	14,511	3,405	8,688	42.0	44.9
Executive, administrative, and managerial	14,554	144	790	13,620	7,089	1,653	4,878	44.0	45.6
Professional specialty	15,459	339	2,136	12,984	7,422	1,752	3,810	40.2	44.3
Technical, sales, and administrative support	34,555	1,007	6,556	26,991	18,186	3,396	5,410	37.6	42.4
Technicians and related support	3,402	62	409	2,930	2,018	388	524	39.4	42.3
Sales occupations	13,437	540	2,959	9,938	5,056	1,372	3,511	39.1	45.9
Administrative support, including clerical	17,715	405	3,187	14,123	11,113	1,636	1,375	36.0	40.0
Service occupations	14,808	1,216	4,276	9,316	6,622	1,050	1,644	34.0	42.7
Private household	772	90	380	301	200	35	66	25.8	44.7
Protective service	1,779	34	157	1,588	924	242	422	43.0	45.7
Service, except private household and protective	12,256	1,091	3,739	7,426	5,498	773	1,156	33.3	42.0
Precision production, craft, and repair	13,298	540	437	12,321	7,763	1,712	2,847	42.0	43.6
Operators, fabricators, and laborers	17,415	951	1,633	14,831	9,433	2,261	3,137	40.4	43.7
Machine operators, assemblers, and inspectors	7,851	333	380	7,138	4,816	1,178	1,144	40.8	42.6
Transportation and material moving occupations	4,862	209	409	4,244	2,168	572	1,504	43.6	46.8
Handlers, equipment cleaners, helpers, and laborers	4,702	409	844	3,449	2,449	510	490	36.2	42.0
Men, 16 years and over¹	59,396	1,916	4,634	52,845	29,305	7,253	16,287	42.4	45.2
Managerial and professional specialty	16,389	209	825	15,355	7,139	1,939	6,277	45.1	46.8
Executive, administrative, and managerial	8,790	71	281	8,438	3,768	995	3,675	46.1	47.2
Professional specialty	7,599	138	544	6,917	3,371	944	2,602	43.9	46.4
Technical, sales, and administrative support	12,132	211	1,255	10,666	5,549	1,506	3,611	42.5	45.6
Technicians and related support	1,777	23	107	1,647	1,033	224	390	41.6	43.4
Sales occupations	6,888	112	738	6,038	2,520	813	2,705	44.4	47.9
Administrative support, including clerical	3,467	76	410	2,980	1,996	469	516	39.0	42.3
Service occupations	5,836	379	1,187	4,270	2,835	523	912	37.3	43.9
Private household	28	6	18	5	2	-	3	(²)	(²)
Protective service	1,504	28	105	1,371	779	207	386	44.2	46.3
Service, except private household and protective	4,305	346	1,064	2,895	2,053	317	524	35.1	42.7
Precision production, craft, and repair	12,134	503	308	11,323	7,010	1,584	2,729	42.3	43.8
Operators, fabricators, and laborers	12,905	615	1,059	11,231	6,773	1,701	2,758	41.4	44.5
Machine operators, assemblers, and inspectors	4,702	132	161	4,409	2,751	756	902	42.4	43.7
Transportation and material moving occupations	4,404	153	263	3,988	2,017	538	1,433	44.6	47.0
Handlers, equipment cleaners, helpers, and laborers	3,798	329	635	2,834	2,004	407	423	36.6	42.2
Women, 16 years and over¹	50,693	2,280	11,195	37,218	27,209	4,571	5,438	35.6	41.2
Managerial and professional specialty	13,624	273	2,102	11,249	7,372	1,466	2,410	38.4	42.4
Executive, administrative, and managerial	5,764	73	509	5,182	3,321	658	1,203	40.6	42.9
Professional specialty	7,860	200	1,593	6,067	4,051	808	1,208	36.7	41.9
Technical, sales, and administrative support	22,423	796	5,301	16,326	12,637	1,890	1,798	34.9	40.3
Technicians and related support	1,625	39	302	1,283	985	165	134	36.9	40.9
Sales occupations	6,549	428	2,222	3,900	2,535	559	806	33.6	42.7
Administrative support, including clerical	14,248	329	2,777	11,143	9,117	1,167	859	35.3	39.4
Service occupations	8,972	837	3,090	5,045	3,787	527	732	31.9	41.7
Private household	744	85	363	297	197	36	64	26.1	44.7
Protective service	276	7	52	217	145	35	36	36.8	42.0
Service, except private household and protective	7,952	745	2,674	4,532	3,444	455	632	32.3	41.5
Precision production, craft, and repair	1,164	37	128	999	753	128	118	38.1	40.9
Operators, fabricators, and laborers	4,511	337	574	3,600	2,661	560	379	37.2	41.1
Machine operators, assemblers, and inspectors	3,149	201	220	2,728	2,065	422	242	38.5	40.9
Transportation and material moving occupations	458	56	146	256	151	35	71	33.9	43.6
Handlers, equipment cleaners, helpers, and laborers	904	80	208	615	445	103	67	34.7	40.9

¹ Excludes farming, forestry, and fishing occupations.

² 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	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
TOTAL													
Noninstitutional population ¹	186,801	186,949	187,098	187,340	187,461	187,581	187,708	187,854	187,995	188,149	188,286	188,428	188,580
Labor force ²	123,778	124,215	124,259	125,124	124,865	124,948	125,343	125,283	125,768	125,622	125,706	125,742	125,814
Percent of population ²	66.3	66.4	66.4	66.8	66.6	66.6	66.8	66.7	66.9	66.8	66.8	66.7	66.7
Total employed ³	117,260	117,652	117,705	118,407	118,537	118,820	118,797	118,888	119,207	119,125	119,285	119,158	119,254
Employment-population ratio ³	62.8	62.9	62.9	63.2	63.2	63.3	63.3	63.3	63.4	63.3	63.4	63.2	63.2
Resident Armed Forces	1,687	1,705	1,696	1,696	1,684	1,684	1,684	1,673	1,666	1,666	1,668	1,702	1,709
Civilian employed	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541	117,459	117,597	117,456	117,545
Agriculture	3,238	3,238	3,193	3,300	3,223	3,206	3,104	3,112	3,096	3,219	3,307	3,257	3,217
Nonagricultural industries	112,335	112,709	112,816	113,411	113,630	113,930	114,009	114,102	114,445	114,240	114,290	114,199	114,327
Unemployed	6,518	6,563	6,554	6,716	6,328	6,128	6,546	6,395	6,561	6,497	6,421	6,584	6,561
Unemployment rate ⁴	5.3	5.3	5.3	5.4	5.1	4.9	5.2	5.1	5.2	5.2	5.1	5.2	5.2
Not in labor force	63,023	62,734	62,839	62,216	62,596	62,633	62,365	62,571	62,228	62,527	62,580	62,686	62,766
Men													
Noninstitutional population ¹	89,637	89,716	89,792	89,914	89,973	90,032	90,094	90,167	90,237	90,315	90,384	90,456	90,535
Labor force ²	68,569	68,686	68,638	69,032	69,113	69,190	69,360	69,114	69,507	69,245	69,337	69,272	69,606
Percent of population ²	76.5	76.6	76.4	76.8	76.8	76.9	77.0	76.7	77.0	76.7	76.7	76.6	76.9
Total employed ³	64,976	65,074	65,055	65,322	65,572	65,920	65,767	65,713	66,110	65,961	65,934	65,601	66,030
Employment-population ratio ³	72.5	72.5	72.5	72.6	72.9	73.2	73.0	72.9	73.3	73.0	72.9	72.5	72.9
Resident Armed Forces	1,526	1,542	1,534	1,532	1,521	1,521	1,521	1,511	1,501	1,499	1,519	1,531	1,533
Civilian employed	63,450	63,532	63,521	63,790	64,051	64,399	64,246	64,202	64,609	64,462	64,415	64,070	64,497
Unemployed	3,593	3,612	3,583	3,710	3,540	3,270	3,593	3,401	3,397	3,284	3,403	3,672	3,576
Unemployment rate ⁴	5.2	5.3	5.2	5.4	5.1	4.7	5.2	4.9	4.9	4.7	4.9	5.3	5.1
Not in labor force	21,068	21,030	21,154	20,882	20,860	20,842	20,734	21,053	20,730	21,070	21,047	21,184	20,929
Women													
Noninstitutional population ¹	97,164	97,234	97,306	97,427	97,488	97,550	97,614	97,687	97,758	97,834	97,902	97,972	98,045
Labor force ²	55,209	55,529	55,621	56,091	55,752	55,758	55,983	56,169	56,261	56,377	56,370	56,470	56,208
Percent of population ²	56.8	57.1	57.2	57.6	57.2	57.2	57.4	57.5	57.6	57.6	57.6	57.6	57.3
Total employed ³	52,284	52,578	52,650	53,085	52,965	52,900	53,029	53,175	53,097	53,164	53,352	53,557	53,224
Employment-population ratio ³	53.8	54.1	54.1	54.5	54.3	54.2	54.3	54.4	54.3	54.3	54.5	54.7	54.3
Resident Armed Forces	161	163	162	164	163	163	163	162	165	167	169	171	176
Civilian employed	52,123	52,415	52,488	52,921	52,802	52,737	52,866	53,013	52,932	52,997	53,183	53,386	53,048
Unemployed	2,925	2,951	2,971	3,006	2,787	2,858	2,953	2,994	3,164	3,213	3,018	2,912	2,985
Unemployment rate ⁴	5.3	5.3	5.3	5.4	5.0	5.1	5.3	5.3	5.6	5.7	5.4	5.2	5.3
Not in labor force	41,955	41,705	41,685	41,336	41,736	41,792	41,631	41,518	41,497	41,457	41,532	41,502	41,837

¹ Includes members of the Armed Forces stationed in the United States.

² Labor force as a percent of the noninstitutional population.

³ Total employment as a percent of the noninstitutional population.

⁴ 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.

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

(Numbers in thousands)

Employment status, sex, and age	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
TOTAL													
Civilian noninstitutional population ¹	185,114	185,244	185,402	185,644	185,777	185,897	186,024	186,181	186,329	186,483	186,598	186,726	186,871
Civilian labor force	122,091	122,510	122,563	123,428	123,181	123,264	123,659	123,610	124,102	123,956	124,018	124,040	124,105
Percent of population	66.0	66.1	66.1	66.5	66.3	66.3	66.5	66.4	66.6	66.5	66.5	66.4	66.4
Employed	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541	117,459	117,597	117,456	117,545
Employment-population ratio ²	62.4	62.6	62.6	62.9	62.9	63.0	63.0	63.0	63.1	63.0	63.0	62.9	62.9
Unemployed	6,518	6,563	6,554	6,716	6,328	6,128	6,546	6,395	6,561	6,497	6,421	6,584	6,561
Unemployment rate	5.3	5.4	5.3	5.4	5.1	5.0	5.3	5.2	5.3	5.2	5.2	5.3	5.3
Men, 20 years and over													
Civilian noninstitutional population ¹	80,851	80,924	81,001	81,162	81,256	81,333	81,413	81,524	81,592	81,679	81,754	81,790	81,905
Civilian labor force	62,915	62,995	63,002	63,358	63,490	63,557	63,709	63,503	63,831	63,656	63,643	63,721	63,883
Percent of population	77.8	77.8	77.8	78.1	78.1	78.1	78.3	77.9	78.2	77.9	77.8	77.9	78.0
Employed	60,004	59,999	60,049	60,420	60,636	60,869	60,757	60,798	61,093	60,921	60,853	60,683	60,981
Employment-population ratio ²	74.2	74.1	74.1	74.4	74.6	74.8	74.6	74.6	74.9	74.6	74.4	74.2	74.5
Agriculture	2,315	2,313	2,292	2,277	2,320	2,317	2,252	2,284	2,256	2,342	2,364	2,339	2,309
Nonagricultural industries	57,689	57,686	57,757	58,143	58,316	58,552	58,505	58,514	58,837	58,579	58,489	58,344	58,673
Unemployed	2,911	2,996	2,953	2,938	2,853	2,688	2,952	2,705	2,737	2,734	2,790	3,038	2,902
Unemployment rate	4.6	4.8	4.7	4.6	4.5	4.2	4.6	4.3	4.3	4.3	4.4	4.8	4.5
Not in labor force	17,936	17,929	17,999	17,804	17,766	17,776	17,704	18,021	17,761	18,023	18,111	18,069	18,022
Women, 20 years and over													
Civilian noninstitutional population ¹	89,807	89,887	89,954	90,072	90,153	90,242	90,318	90,432	90,526	90,607	90,684	90,771	90,860
Civilian labor force	51,201	51,558	51,587	51,998	51,821	51,851	51,992	52,171	52,231	52,463	52,373	52,443	52,239
Percent of population	57.0	57.4	57.3	57.7	57.5	57.5	57.6	57.7	57.9	57.8	57.8	57.8	57.5
Employed	48,788	49,113	49,165	49,543	49,514	49,484	49,544	49,690	49,661	49,850	49,905	50,089	49,767
Employment-population ratio ²	54.3	54.6	54.7	55.0	54.9	54.8	54.9	54.9	54.9	55.0	55.0	55.2	54.8
Agriculture	640	640	646	715	666	664	615	628	610	627	644	701	648
Nonagricultural industries	48,148	48,473	48,519	48,827	48,849	48,819	48,929	49,062	49,051	49,223	49,261	49,388	49,119
Unemployed	2,413	2,445	2,422	2,455	2,306	2,367	2,448	2,480	2,570	2,613	2,468	2,353	2,472
Unemployment rate	4.7	4.7	4.7	4.7	4.5	4.6	4.7	4.8	4.9	5.0	4.7	4.5	4.7
Not in labor force	38,606	38,329	38,367	38,074	38,332	38,391	38,326	38,261	38,295	38,144	38,311	38,328	38,621
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	14,456	14,433	14,447	14,410	14,367	14,323	14,293	14,224	14,211	14,196	14,160	14,166	14,107
Civilian labor force	7,975	7,957	7,974	8,071	7,871	7,856	7,958	7,936	8,040	7,837	8,003	7,876	7,983
Percent of population	55.2	55.1	55.2	56.0	54.8	54.9	55.7	55.8	56.6	55.2	56.5	55.6	56.6
Employed	6,781	6,835	6,795	6,748	6,703	6,783	6,812	6,726	6,786	6,687	6,840	6,683	6,796
Employment-population ratio ²	46.9	47.4	47.0	46.8	46.7	47.4	47.7	47.3	47.8	47.1	48.3	47.2	48.2
Agriculture	283	285	255	307	237	224	237	200	230	249	300	216	260
Nonagricultural industries	6,498	6,550	6,540	6,441	6,466	6,559	6,575	6,526	6,556	6,438	6,540	6,467	6,536
Unemployed	1,194	1,122	1,179	1,323	1,168	1,073	1,146	1,210	1,254	1,150	1,163	1,193	1,187
Unemployment rate	15.0	14.1	14.8	16.4	14.8	13.7	14.4	15.2	15.6	14.7	14.5	15.1	14.9
Not in labor force	6,481	6,476	6,473	6,339	6,496	6,467	6,335	6,288	6,171	6,359	6,157	6,290	6,124

¹ The population figures are not adjusted for seasonal variation.

² 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	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
WHITE													
Civilian noninstitutional population ¹	158,524	158,603	158,705	158,865	158,947	159,020	159,098	159,200	159,297	159,400	159,470	159,549	159,644
Civilian labor force	105,051	105,395	105,411	106,106	105,798	105,988	106,312	106,164	106,455	106,424	106,446	106,325	106,544
Percent of population	66.3	66.5	66.4	66.8	66.6	66.7	66.8	66.7	66.8	66.8	66.8	66.6	66.7
Employed	100,199	100,543	100,567	101,183	101,278	101,554	101,458	101,465	101,693	101,581	101,670	101,535	101,816
Employment-population ratio ²	63.2	63.4	63.4	63.7	63.7	63.9	63.8	63.7	63.8	63.7	63.8	63.6	63.8
Unemployed	4,852	4,852	4,844	4,923	4,521	4,434	4,854	4,699	4,762	4,843	4,777	4,791	4,728
Unemployment rate	4.6	4.6	4.6	4.6	4.3	4.2	4.6	4.4	4.5	4.6	4.5	4.5	4.4
Men, 20 years and over													
Civilian labor force	54,861	54,922	54,898	55,213	55,308	55,382	55,448	55,249	55,557	55,437	55,377	55,413	55,605
Percent of population	78.3	78.3	78.2	78.5	78.6	78.6	78.7	78.3	78.7	78.4	78.3	78.3	78.5
Employed	52,612	52,624	52,636	53,007	53,197	53,387	53,248	53,248	53,500	53,343	53,282	53,097	53,468
Employment-population ratio ²	75.1	75.0	75.0	75.4	75.6	75.8	75.5	75.5	75.8	75.5	75.3	75.0	75.5
Unemployed	2,249	2,298	2,262	2,205	2,111	1,995	2,202	2,001	2,057	2,094	2,095	2,316	2,138
Unemployment rate	4.1	4.2	4.1	4.0	3.8	3.6	4.0	3.6	3.7	3.8	3.8	4.2	3.8
Women, 20 years and over													
Civilian labor force	43,298	43,625	43,644	43,936	43,770	43,780	44,016	44,084	44,050	44,302	44,169	44,192	44,123
Percent of population	56.5	56.9	56.9	57.2	56.9	56.9	57.2	57.2	57.1	57.4	57.2	57.2	57.0
Employed	41,583	41,889	41,930	42,201	42,177	42,115	42,207	42,282	42,236	42,411	42,372	42,527	42,368
Employment-population ratio ²	54.2	54.6	54.6	54.9	54.8	54.7	54.8	54.9	54.8	55.0	54.9	55.0	54.8
Unemployed	1,715	1,736	1,714	1,734	1,593	1,665	1,810	1,803	1,814	1,891	1,798	1,665	1,756
Unemployment rate	4.0	4.0	3.9	3.9	3.6	3.8	4.1	4.1	4.1	4.3	4.1	3.8	4.0
Both sexes, 16 to 19 years													
Civilian labor force	6,892	6,848	6,869	6,958	6,720	6,826	6,848	6,831	6,848	6,685	6,900	6,720	6,815
Percent of population	58.5	58.3	58.6	59.6	57.7	58.7	59.0	59.0	59.2	57.9	60.0	58.6	59.7
Employed	6,004	6,030	6,001	5,975	5,904	6,052	6,005	5,936	5,957	5,827	6,016	5,910	5,981
Employment-population ratio ²	51.0	51.3	51.2	51.1	50.7	52.1	51.8	51.3	51.5	50.5	52.3	51.6	52.4
Unemployed	888	818	868	983	816	774	843	895	891	858	884	810	834
Unemployment rate	12.9	11.9	12.6	14.1	12.1	11.3	12.3	13.1	13.0	12.8	12.8	12.1	12.2
Men	14.4	12.6	13.4	16.4	14.0	12.3	13.1	14.8	13.4	12.4	12.9	13.3	13.9
Women	11.3	11.3	11.8	11.7	10.2	10.2	11.5	11.2	12.6	13.4	12.7	10.8	10.4
BLACK													
Civilian noninstitutional population ¹	20,786	20,811	20,842	20,877	20,905	20,930	20,956	20,986	21,012	21,038	21,060	21,085	21,108
Civilian labor force	13,290	13,330	13,405	13,477	13,476	13,425	13,287	13,444	13,600	13,555	13,448	13,515	13,491
Percent of population	63.9	64.1	64.3	64.6	64.5	64.1	63.4	64.1	64.7	64.4	63.9	64.1	63.9
Employed	11,807	11,831	11,856	11,860	11,873	11,961	11,846	11,968	11,982	12,082	11,958	11,940	11,902
Employment-population ratio ²	56.8	56.8	56.9	56.8	56.8	57.1	56.5	57.0	57.0	57.4	56.8	56.6	56.4
Unemployed	1,483	1,499	1,549	1,617	1,603	1,464	1,442	1,476	1,618	1,473	1,490	1,574	1,589
Unemployment rate	11.2	11.2	11.6	12.0	11.9	10.9	10.8	11.0	11.9	10.9	11.1	11.6	11.8
Men, 20 years and over													
Civilian labor force	6,157	6,146	6,179	6,226	6,199	6,230	6,171	6,207	6,200	6,205	6,189	6,247	6,236
Percent of population	74.6	74.3	74.6	75.0	74.6	74.8	74.0	74.3	74.1	74.1	73.8	74.7	74.3
Employed	5,566	5,545	5,561	5,576	5,549	5,620	5,554	5,622	5,619	5,629	5,580	5,620	5,596
Employment-population ratio ²	67.4	67.1	67.1	67.2	66.7	67.5	66.6	67.3	67.2	67.2	66.6	67.2	66.7
Unemployed	591	601	618	650	650	611	617	586	581	576	609	627	640
Unemployment rate	9.6	9.8	10.0	10.4	10.5	9.8	10.0	9.4	9.4	9.3	9.8	10.0	10.3
Women, 20 years and over													
Civilian labor force	6,234	6,280	6,316	6,369	6,349	6,315	6,227	6,340	6,405	6,394	6,359	6,356	6,320
Percent of population	60.2	60.6	60.9	61.2	61.0	60.5	59.6	60.6	61.2	61.0	60.5	60.4	60.0
Employed	5,620	5,663	5,654	5,706	5,697	5,739	5,677	5,740	5,732	5,759	5,762	5,748	5,691
Employment-population ratio ²	54.3	54.6	54.5	54.9	54.7	55.0	54.3	54.9	54.7	54.9	54.9	54.6	54.0
Unemployed	614	617	662	663	651	576	550	600	674	635	597	607	629
Unemployment rate	9.8	9.8	10.5	10.4	10.3	9.1	8.8	9.5	10.5	9.9	9.4	9.6	10.0

See footnotes at end of table.

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	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	899	904	910	881	928	880	889	897	994	956	900	912	935
Percent of population	41.2	41.5	41.7	40.5	42.7	40.5	40.9	41.3	45.7	44.0	41.4	41.5	42.9
Employed	621	623	641	577	627	602	615	606	631	694	616	572	615
Employment-population ratio ²	28.5	28.6	29.4	26.5	28.8	27.7	28.3	27.9	29.0	31.9	28.3	26.0	28.2
Unemployed	278	281	269	304	301	278	274	291	363	262	284	340	320
Unemployment rate	30.9	31.1	29.6	34.5	32.4	31.6	30.8	32.4	36.5	27.4	31.6	37.3	34.2
Men	32.8	32.1	29.8	36.7	33.1	28.6	35.5	36.9	33.5	22.1	30.0	34.1	32.4
Women	28.6	29.9	29.3	32.0	31.6	34.8	26.2	28.4	40.2	33.1	33.4	40.3	36.1
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	13,458	13,495	13,533	13,564	13,606	13,649	13,690	13,731	13,772	13,813	13,853	13,894	13,936
Civilian labor force	9,075	9,148	9,133	9,205	9,219	9,210	9,262	9,428	9,272	9,433	9,364	9,326	9,311
Percent of population	67.4	67.8	67.5	67.9	67.8	67.5	67.7	68.7	67.3	68.3	67.6	67.1	66.8
Employed	8,368	8,419	8,441	8,434	8,596	8,607	8,495	8,686	8,524	8,587	8,521	8,550	8,580
Employment-population ratio ²	62.2	62.4	62.4	62.2	63.2	63.1	62.1	63.3	61.9	62.2	61.5	61.5	61.6
Unemployed	707	729	692	771	624	603	767	742	748	846	843	776	731
Unemployment rate	7.8	8.0	7.6	8.4	6.8	6.5	8.3	7.9	8.1	9.0	9.0	8.3	7.9

¹ The population figures are not adjusted for seasonal variation.
² 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	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
CHARACTERISTIC													
Total	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541	117,459	117,597	117,456	117,545
Married men, spouse present	40,504	40,407	40,483	40,925	40,928	41,083	40,890	40,902	41,102	41,089	40,636	40,572	40,775
Married women, spouse present	28,890	28,995	29,053	29,589	29,412	29,569	29,656	29,739	29,481	29,552	29,220	29,461	29,475
Women who maintain families	6,344	6,375	6,399	6,416	6,385	6,256	6,243	6,331	6,403	6,456	6,342	6,437	6,348
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,661	1,672	1,698	1,684	1,645	1,656	1,554	1,610	1,550	1,695	1,803	1,671	1,680
Self-employed workers	1,405	1,450	1,349	1,387	1,419	1,403	1,419	1,358	1,412	1,434	1,420	1,441	1,413
Unpaid family workers	177	125	149	189	150	138	124	127	126	126	137	135	121
Nonagricultural industries:													
Wage and salary workers	103,733	103,770	103,904	104,510	104,797	104,982	104,985	105,245	105,519	105,321	105,259	105,355	105,413
Government	17,240	17,387	17,423	17,393	17,311	17,382	17,180	17,230	17,261	17,519	17,591	17,619	17,582
Private industries	86,493	86,383	86,481	87,117	87,486	87,600	87,806	88,015	88,259	87,803	87,668	87,737	87,830
Private households	1,152	1,209	1,210	1,196	1,135	1,163	1,117	1,128	1,140	1,093	1,146	1,054	968
Other industries	85,341	85,174	85,271	85,921	86,350	86,437	86,689	86,887	87,118	86,710	86,522	86,682	86,862
Self-employed workers	8,479	8,619	8,602	8,718	8,517	8,645	8,671	8,516	8,570	8,606	8,625	8,569	8,680
Unpaid family workers	232	300	266	298	285	332	281	322	241	239	264	296	285
PERSONS AT WORK PART TIME¹													
All industries:													
Part time for economic reasons	4,963	5,061	5,321	5,097	4,981	4,968	5,143	4,837	4,957	4,750	4,785	4,882	4,728
Slack work	2,220	2,279	2,549	2,302	2,303	2,232	2,373	2,296	2,318	2,311	2,282	2,330	2,336
Could only find part-time work	2,399	2,375	2,410	2,352	2,333	2,393	2,425	2,343	2,289	2,138	2,107	2,171	2,037
Voluntary part time	15,161	15,446	15,363	15,401	15,126	15,561	15,498	15,316	15,416	15,652	15,614	15,542	15,303
Nonagricultural industries:													
Part time for economic reasons	4,727	4,819	5,033	4,837	4,697	4,709	4,930	4,609	4,801	4,505	4,553	4,612	4,466
Slack work	2,095	2,116	2,377	2,144	2,105	2,048	2,243	2,102	2,190	2,185	2,129	2,174	2,178
Could only find part-time work	2,319	2,288	2,307	2,283	2,272	2,317	2,369	2,301	2,236	2,057	2,024	2,090	1,975
Voluntary part time	14,679	14,986	14,928	14,970	14,688	15,127	15,060	14,976	14,977	15,219	15,094	15,109	14,865

¹ 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	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541	117,459	117,597	117,456	117,545
16 to 24 years	19,930	19,877	19,852	19,741	19,797	19,996	19,899	19,784	19,959	19,796	19,877	19,457	19,506
16 to 19 years	6,781	6,835	6,795	6,748	6,703	6,783	6,812	6,726	6,786	6,687	6,840	6,683	6,796
16 to 17 years	2,689	2,770	2,686	2,602	2,563	2,639	2,639	2,593	2,526	2,439	2,563	2,560	2,672
18 to 19 years	4,090	4,045	4,150	4,125	4,163	4,186	4,177	4,123	4,221	4,244	4,245	4,138	4,117
20 to 24 years	13,149	13,042	13,057	12,993	13,095	13,213	13,088	13,059	13,173	13,109	13,038	12,774	12,710
25 years and over	95,619	96,062	96,151	96,988	97,020	97,125	97,167	97,384	97,602	97,740	97,758	98,010	97,984
25 to 54 years	80,950	81,242	81,399	82,036	82,160	82,165	82,204	82,436	82,721	82,852	83,066	83,178	83,252
55 years and over	14,690	14,790	14,771	14,924	14,803	14,933	14,928	14,948	14,863	14,912	14,727	14,830	14,801
Men, 16 years and over	63,450	63,532	63,521	63,790	64,051	64,399	64,246	64,202	64,609	64,462	64,415	64,070	64,497
16 to 24 years	10,303	10,379	10,288	10,198	10,377	10,530	10,385	10,243	10,412	10,303	10,301	10,015	10,235
16 to 19 years	3,446	3,533	3,472	3,370	3,415	3,530	3,489	3,403	3,515	3,540	3,562	3,386	3,516
16 to 17 years	1,404	1,433	1,385	1,270	1,298	1,377	1,338	1,304	1,296	1,273	1,379	1,260	1,376
18 to 19 years	2,040	2,105	2,135	2,088	2,134	2,179	2,149	2,089	2,206	2,264	2,163	2,134	2,128
20 to 24 years	6,857	6,846	6,816	6,828	6,962	7,000	6,896	6,839	6,897	6,763	6,739	6,628	6,720
25 years and over	53,136	53,152	53,227	53,573	53,659	53,897	53,842	53,949	54,222	54,208	54,155	54,079	54,246
25 to 54 years	44,669	44,712	44,779	45,001	45,091	45,278	45,163	45,398	45,619	45,644	45,725	45,646	45,809
55 years and over	8,482	8,436	8,470	8,563	8,536	8,603	8,643	8,543	8,589	8,605	8,430	8,427	8,478
Women, 16 years and over	52,123	52,415	52,488	52,921	52,802	52,737	52,866	53,013	52,932	52,997	53,183	53,386	53,048
16 to 24 years	9,627	9,498	9,564	9,543	9,420	9,466	9,515	9,541	9,547	9,493	9,576	9,443	9,270
16 to 19 years	3,335	3,302	3,323	3,378	3,287	3,253	3,323	3,322	3,271	3,147	3,278	3,297	3,280
16 to 17 years	1,285	1,337	1,301	1,332	1,265	1,262	1,301	1,289	1,230	1,166	1,184	1,300	1,296
18 to 19 years	2,050	1,940	2,015	2,037	2,029	2,007	2,028	2,034	2,015	1,980	2,082	2,004	1,989
20 to 24 years	6,292	6,196	6,241	6,165	6,133	6,213	6,192	6,219	6,276	6,346	6,298	6,146	5,990
25 years and over	42,483	42,910	42,924	43,415	43,361	43,228	43,325	43,434	43,379	43,533	43,603	43,931	43,737
25 to 54 years	36,281	36,530	36,620	37,035	37,069	36,886	37,042	37,039	37,102	37,208	37,341	37,533	37,443
55 years and over	6,208	6,354	6,301	6,361	6,267	6,331	6,285	6,404	6,274	6,306	6,297	6,403	6,323

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

(In thousands)

Sex and age	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over	6,518	6,563	6,554	6,716	6,328	6,128	6,546	6,395	6,561	6,497	6,421	6,584	6,561
16 to 24 years	2,429	2,363	2,421	2,663	2,316	2,182	2,344	2,303	2,544	2,381	2,420	2,444	2,430
16 to 19 years	1,194	1,122	1,179	1,323	1,168	1,073	1,146	1,210	1,254	1,150	1,163	1,193	1,187
16 to 17 years	559	520	535	581	572	477	463	500	535	529	565	518	539
18 to 19 years	629	599	637	751	605	597	667	701	737	603	609	683	643
20 to 24 years	1,235	1,241	1,242	1,340	1,148	1,109	1,198	1,093	1,290	1,231	1,257	1,251	1,243
25 years and over	4,061	4,193	4,125	4,101	4,026	3,921	4,191	4,074	4,036	4,099	4,031	4,182	4,116
25 to 54 years	3,651	3,739	3,687	3,632	3,559	3,542	3,761	3,628	3,503	3,641	3,556	3,698	3,644
55 years and over	419	433	457	474	466	396	451	453	515	485	468	461	457
Men, 16 years and over	3,593	3,612	3,583	3,710	3,540	3,270	3,593	3,401	3,397	3,284	3,403	3,672	3,576
16 to 24 years	1,376	1,274	1,280	1,494	1,302	1,128	1,238	1,270	1,358	1,196	1,328	1,380	1,366
16 to 19 years	682	616	630	772	687	582	641	696	660	550	613	634	674
16 to 17 years	318	300	290	330	317	258	274	301	323	268	290	311	315
18 to 19 years	360	314	333	455	379	330	368	390	347	270	315	334	359
20 to 24 years	694	658	650	722	615	546	597	574	698	646	715	746	692
25 years and over	2,195	2,331	2,296	2,245	2,246	2,136	2,344	2,099	2,057	2,095	2,106	2,324	2,198
25 to 54 years	1,946	2,050	1,999	1,986	1,943	1,890	2,076	1,845	1,768	1,840	1,800	1,992	1,923
55 years and over	266	275	286	269	303	246	283	258	270	274	291	313	273
Women, 16 years and over	2,925	2,951	2,971	3,006	2,787	2,858	2,953	2,994	3,164	3,213	3,018	2,912	2,985
16 to 24 years	1,053	1,089	1,141	1,169	1,014	1,054	1,106	1,034	1,186	1,185	1,092	1,064	1,064
16 to 19 years	512	506	549	551	481	491	505	514	594	600	550	559	513
16 to 17 years	241	220	245	251	255	219	189	199	212	261	275	207	224
18 to 19 years	269	285	304	296	226	267	299	311	390	333	294	349	284
20 to 24 years	541	583	592	618	533	563	601	520	592	585	542	505	551
25 years and over	1,866	1,862	1,829	1,856	1,780	1,784	1,847	1,975	1,979	2,004	1,925	1,858	1,919
25 to 54 years	1,705	1,689	1,688	1,646	1,616	1,652	1,685	1,782	1,735	1,801	1,756	1,705	1,720
55 years and over	153	158	171	205	164	151	169	195	245	211	178	147	184

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

(Civilian workers)

Sex and age	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over	5.3	5.4	5.3	5.4	5.1	5.0	5.3	5.2	5.3	5.2	5.2	5.3	5.3
16 to 24 years	10.9	10.6	10.9	11.9	10.5	9.8	10.5	10.4	11.3	10.7	10.9	11.2	11.1
16 to 19 years	15.0	14.1	14.8	16.4	14.8	13.7	14.4	15.2	15.6	14.7	14.5	15.1	14.9
16 to 17 years	17.2	15.8	16.6	18.3	18.2	15.3	14.9	16.2	17.5	17.8	18.1	16.8	16.8
18 to 19 years	13.3	12.9	13.3	15.4	12.7	12.5	13.8	14.5	14.9	12.4	12.5	14.2	13.5
20 to 24 years	8.6	8.7	8.7	9.3	8.1	7.7	8.4	7.7	8.9	8.6	8.8	8.9	8.9
25 years and over	4.1	4.2	4.1	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0	4.1	4.0
25 to 54 years	4.3	4.4	4.3	4.2	4.2	4.1	4.4	4.2	4.1	4.2	4.1	4.3	4.2
55 years and over	2.8	2.8	3.0	3.1	3.1	2.6	2.9	2.9	3.3	3.1	3.1	3.0	3.0
Men, 16 years and over	5.4	5.4	5.3	5.5	5.2	4.8	5.3	5.0	5.0	4.8	5.0	5.4	5.3
16 to 24 years	11.8	10.9	11.1	12.8	11.1	9.7	10.7	11.0	11.5	10.4	11.4	12.1	11.8
16 to 19 years	16.5	14.8	15.4	18.6	16.7	14.2	15.5	17.0	15.8	13.4	14.7	15.8	16.1
16 to 17 years	18.5	17.3	17.3	20.6	19.6	15.8	17.0	18.8	20.0	17.4	17.4	19.8	18.6
18 to 19 years	15.0	13.0	13.5	17.9	15.1	13.2	14.6	15.7	13.6	10.7	12.7	13.5	14.4
20 to 24 years	9.2	8.8	8.7	9.6	8.1	7.2	8.0	7.7	9.2	8.7	9.6	10.1	9.3
25 years and over	4.0	4.2	4.1	4.0	4.0	3.8	4.2	3.7	3.7	3.7	3.7	4.1	3.9
25 to 54 years	4.2	4.4	4.3	4.2	4.1	4.0	4.4	3.9	3.7	3.9	3.8	4.2	4.0
55 years and over	3.0	3.2	3.3	3.0	3.4	2.8	3.2	2.9	3.0	3.1	3.3	3.6	3.1
Women, 16 years and over	5.3	5.3	5.4	5.4	5.0	5.1	5.3	5.3	5.6	5.7	5.4	5.2	5.3
16 to 24 years	9.9	10.3	10.7	10.9	9.7	10.0	10.4	9.8	11.0	11.1	10.2	10.1	10.3
16 to 19 years	13.3	13.3	14.2	14.0	12.8	13.1	13.2	13.4	15.4	16.0	14.4	14.5	13.5
16 to 17 years	15.8	14.1	15.8	15.9	16.8	14.8	12.7	13.4	14.7	18.3	18.8	13.7	14.7
18 to 19 years	11.6	12.8	13.1	12.7	10.0	11.7	12.8	13.3	16.2	14.4	12.4	14.8	12.5
20 to 24 years	7.9	8.6	8.7	9.1	8.0	8.3	8.9	7.7	8.6	8.4	7.9	7.6	8.4
25 years and over	4.2	4.2	4.1	4.1	3.9	4.0	4.1	4.4	4.4	4.4	4.2	4.1	4.2
25 to 54 years	4.5	4.4	4.4	4.3	4.2	4.3	4.4	4.6	4.5	4.6	4.5	4.3	4.4
55 years and over	2.4	2.4	2.6	3.1	2.5	2.3	2.6	3.0	3.8	3.2	2.7	2.2	2.8

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
CHARACTERISTIC													
Total (all civilian workers)	5.3	5.4	5.3	5.4	5.1	5.0	5.3	5.2	5.3	5.2	5.2	5.3	5.3
Men, 20 years and over	4.6	4.8	4.7	4.6	4.5	4.2	4.6	4.3	4.3	4.3	4.4	4.8	4.5
Women, 20 years and over	4.7	4.7	4.7	4.7	4.5	4.6	4.7	4.8	4.9	5.0	4.7	4.5	4.7
Both sexes, 16 to 19 years	15.0	14.1	14.8	16.4	14.8	13.7	14.4	15.2	15.6	14.7	14.5	15.1	14.9
White	4.6	4.6	4.6	4.6	4.3	4.2	4.6	4.4	4.5	4.6	4.5	4.5	4.4
Black and other	9.8	10.0	10.0	10.6	10.6	9.8	9.6	9.5	10.3	9.6	9.5	10.1	10.3
Black	11.2	11.2	11.6	12.0	11.9	10.9	10.8	11.0	11.9	10.9	11.1	11.6	11.8
Hispanic origin	7.8	8.0	7.6	8.4	6.8	6.5	8.3	7.9	8.1	9.0	9.0	8.3	7.9
Married men, spouse present	3.1	3.3	3.1	3.1	3.1	2.9	3.2	2.9	2.8	2.9	3.1	3.4	3.0
Married women, spouse present	3.7	3.8	3.7	3.6	3.4	3.5	4.0	3.8	3.8	3.8	3.9	3.8	4.0
Women who maintain families	7.9	7.7	8.2	8.0	8.0	7.9	7.6	8.3	7.9	8.7	8.0	7.6	7.6
Full-time workers	5.0	5.0	5.1	5.0	4.8	4.8	5.0	4.8	4.8	4.9	4.9	5.0	4.9
Part-time workers	7.4	7.1	7.0	7.9	7.3	6.2	7.2	6.9	7.7	7.2	6.9	7.3	7.1
Unemployed 15 weeks and over ¹	1.3	1.2	1.2	1.2	1.1	1.1	1.2	1.1	1.0	1.2	1.1	1.1	1.1
Labor force time lost ²	6.1	6.2	6.3	6.2	5.9	5.8	6.0	5.9	6.1	6.0	5.9	5.9	5.8
INDUSTRY													
Nonagricultural private wage and salary workers	5.4	5.5	5.4	5.6	5.1	5.0	5.4	5.2	5.3	5.4	5.4	5.4	5.3
Goods-producing industries	6.4	6.4	6.4	6.4	6.1	5.8	6.0	5.8	6.2	6.2	6.4	6.3	6.2
Mining	8.8	8.9	7.7	6.1	8.0	7.0	5.6	4.5	3.7	5.5	6.5	8.5	5.1
Construction	10.0	10.6	10.4	10.4	10.0	9.4	9.7	9.3	10.0	10.5	10.3	10.4	9.0
Manufacturing	5.3	5.1	5.2	5.3	4.9	4.8	4.9	4.9	5.2	5.0	5.2	5.1	5.4
Durable goods	5.0	4.9	5.0	5.0	4.4	4.7	4.7	4.5	4.6	4.7	4.8	4.7	5.2
Nondurable goods	5.7	5.3	5.5	5.7	5.5	4.9	5.2	5.5	6.1	5.5	5.9	5.5	5.6
Service-producing industries	4.9	5.1	4.9	5.2	4.7	4.6	5.1	4.9	4.9	5.0	4.9	5.0	4.9
Transportation and public utilities	3.5	4.0	3.8	3.8	3.9	3.9	4.0	4.0	4.4	4.2	3.6	4.7	3.9
Wholesale and retail trade	6.0	6.2	6.3	6.3	5.6	5.6	5.9	5.5	6.0	6.2	6.0	5.8	5.8
Finance and service industries	4.5	4.6	4.1	4.7	4.3	4.1	4.8	4.7	4.3	4.4	4.4	4.5	4.4
Government workers	2.6	2.5	2.7	2.7	2.7	2.6	2.7	2.9	3.0	2.8	2.7	2.8	2.7
Agricultural wage and salary workers	10.2	9.3	8.8	9.5	8.9	8.9	10.5	10.3	11.0	8.5	8.6	7.7	10.0

¹ Unemployment as a percent of the civilian labor force.

² 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	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
DURATION													
Less than 5 weeks	3,059	3,117	3,029	3,181	3,247	3,055	3,090	3,041	3,309	3,149	3,071	3,156	3,138
5 to 14 weeks	1,835	1,935	2,039	2,081	1,865	1,821	2,034	2,017	1,999	1,927	2,011	2,036	1,972
15 weeks and over	1,554	1,502	1,495	1,512	1,304	1,310	1,426	1,313	1,258	1,472	1,305	1,370	1,374
15 to 26 weeks	788	787	758	757	665	648	689	702	659	846	737	789	728
27 weeks and over	766	715	737	755	639	663	737	611	599	626	567	581	646
Average (mean) duration, in weeks	13.4	12.6	12.8	12.7	12.1	12.4	12.7	11.8	11.1	12.0	11.3	11.4	11.8
Median duration, in weeks	5.7	5.6	5.8	5.7	5.3	5.4	5.4	5.3	5.5	5.6	5.0	5.0	4.9
PERCENT DISTRIBUTION													
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	47.4	47.6	46.2	47.0	50.6	49.4	47.2	47.7	50.4	48.1	48.1	48.1	48.4
5 to 14 weeks	28.5	29.5	31.1	30.7	29.1	29.4	31.1	31.7	30.4	29.4	31.5	31.0	30.4
15 weeks and over	24.1	22.9	22.8	22.3	20.3	21.2	21.8	20.6	19.2	22.5	20.4	20.9	21.2
15 to 26 weeks	12.2	12.0	11.5	11.2	10.4	10.5	10.5	11.0	10.0	12.9	11.5	12.0	11.2
27 weeks and over	11.9	10.9	11.2	11.1	10.0	10.7	11.3	9.6	9.1	9.6	8.9	8.8	10.0

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

(Numbers in thousands)

Reasons for unemployment	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
NUMBER OF UNEMPLOYED													
Job losers	2,951	3,031	3,066	3,121	2,876	2,831	2,984	2,724	2,765	2,920	2,984	2,915	2,917
On layoff	844	814	819	827	774	808	847	790	806	822	873	828	753
Other job losers	2,107	2,217	2,247	2,294	2,102	2,023	2,137	1,934	1,958	2,097	2,111	2,087	2,163
Job leavers	984	963	998	985	985	885	978	1,114	1,023	1,010	1,040	1,039	979
Reentrants	1,747	1,766	1,725	1,835	1,740	1,730	1,894	1,852	2,051	1,934	1,768	1,946	1,891
New entrants	747	799	799	780	765	713	671	683	742	724	628	629	685
PERCENT DISTRIBUTION													
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	45.9	46.2	46.5	46.4	45.2	46.0	45.7	42.7	42.0	44.3	46.5	44.6	45.1
On layoff	13.1	12.4	12.4	12.3	12.2	13.1	13.0	12.4	12.3	12.5	13.6	12.7	11.6
Other job losers	32.8	33.8	34.1	34.1	33.0	32.8	32.7	30.3	29.8	31.8	32.9	32.0	33.4
Job leavers	15.3	14.7	15.1	14.7	15.5	14.4	15.0	17.5	15.5	15.3	16.2	15.9	15.1
Reentrants	27.2	26.9	26.2	27.3	27.3	28.1	29.0	29.1	31.2	29.4	27.5	29.8	29.2
New entrants	11.6	12.2	12.1	11.6	12.0	11.6	10.3	10.7	11.3	11.0	9.8	9.6	10.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.4	2.5	2.5	2.5	2.3	2.3	2.4	2.2	2.2	2.4	2.4	2.4	2.4
Job leavers .....	.8	.8	.8	.8	.8	.7	.8	.9	.8	.8	.8	.8	.8
Reentrants	1.4	1.4	1.4	1.5	1.4	1.4	1.5	1.5	1.7	1.6	1.4	1.6	1.5
New entrants .....	.6	.7	.7	.6	.6	.6	.5	.6	.6	.6	.5	.5	.6

**ESTABLISHMENT DATA
HISTORICAL EMPLOYMENT**

B-1. Employees on nonagricultural payrolls by major industry, 1937 to date

(In thousands)

Year and month	Total	Total private	Goods-producing				Service-producing								
			Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Services	Government		
													Federal	State	Local
Annual averages															
1937	31,011	27,255	12,936	1,015	1,127	10,794	18,075	3,134	(1)	(1)	1,417	3,503	(1)	(1)	(1)
1938	29,194	25,311	11,401	891	1,070	9,440	17,793	2,863	(1)	(1)	1,410	3,458	(1)	(1)	(1)
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	(1)	(1)
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	(1)	(1)
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	(1)	(1)
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	(1)	(1)
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	(1)	(1)
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	(1)	(1)
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	(1)	(1)
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	(1)	(1)
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	(1)	(1)
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	(1)	(1)
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	(1)	(1)
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	(1)	(1)
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	(1)	(1)
1952	48,793	42,185	20,198	898	2,668	16,632	28,595	4,248	2,812	7,192	2,035	5,699	2,420	(1)	(1)
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	(1)	(1)
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	(1)	(1)
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	31,899	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 ²	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	18,623	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	19,036	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	86,212	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
Monthly data, seasonally adjusted															
1988:															
October	106,475	88,991	25,384	717	5,162	19,505	81,091	5,596	6,086	19,229	6,710	25,986	2,986	4,081	10,417
November	106,824	89,299	25,460	712	5,191	19,557	81,364	5,616	6,104	19,282	6,726	26,111	2,983	4,085	10,457
December	107,097	89,574	25,513	711	5,213	19,589	81,584	5,634	6,125	19,328	6,744	26,230	2,981	4,085	10,457
1989:															
January	107,442	89,897	25,626	711	5,267	19,648	81,816	5,654	6,146	19,407	6,746	26,318	2,978	4,084	10,483
February	107,711	90,124	25,629	711	5,270	19,648	82,082	5,667	6,171	19,460	6,763	26,434	2,982	4,095	10,510
March	107,888	90,291	25,646	714	5,252	19,680	82,242	5,666	6,197	19,488	6,774	26,520	2,982	4,102	10,513
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	82,638	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 ^P	109,088	91,185	25,607	730	5,321	19,556	83,481	5,711	6,264	19,629	6,851	27,123	3,016	4,214	10,673
October ^P	109,321	91,324	25,604	732	5,329	19,543	83,717	5,738	6,270	19,653	6,852	27,207	3,004	4,224	10,769

¹ Not available.

² 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.

^P = 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 1985) 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 ¹				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Total		106,601	107,279	108,666	109,477	110,124			-		
Total private		89,416	89,571	91,973	91,871	91,896	72,456	72,596	74,547	74,424	74,472
Mining		728	725	739	739	741	526	523	534	534	535
Metal mining	10	53.4	54.1	64.6	64.2		41.7	42.2	51.3	51.1	
Iron ores	101	8.4	8.4	9.7	9.6		6.8	6.9	8.1	8.0	
Copper ores	102	13.4	13.5	14.2	14.2		10.3	10.4	11.3	11.4	
Coal mining	11,12	149.8	149.4	143.9	144.4	-	122.5	122.4	118.1	118.7	
Bituminous coal and lignite mining	12	147.6	147.3	141.8	142.1	-	120.6	120.6	116.3	116.8	
Oil and gas extraction	13	406.5	404.2	409.3	410.5	413.2	270.6	268.3	271.7	272.5	
Crude petroleum, natural gas, and natural gas liquids ...	131,2	199.0	198.4	198.1	196.1	-	99.2	98.9	97.2	95.3	-
Oil and gas field services	138	207.5	205.8	211.2	214.4	-	171.4	169.4	174.5	177.2	
Nonmetallic minerals, except fuels	14	118.1	117.2	121.2	120.0		90.9	89.9	92.9	91.9	
Crushed and broken stone	142	42.9	42.4	43.3	43.0	-	33.9	33.5	34.4	34.1	-
Sand and gravel	144	37.7	37.1	38.9	38.8		-	-	-	-	
Chemical and fertilizer minerals	147	17.1	17.5	18.0	17.6		-	-	-	-	
Construction		5,442	5,415	5,677	5,603	5,585	4,304	4,277	4,485	4,421	4,401
General building contractors	15	1,426.3	1,420.6	1,481.8	1,449.2	1,444.5	1,056.7	1,051.2	1,096.4	1,067.1	
Residential building construction	152	765.1	759.1	801.3	783.5	-	555.9	549.8	581.0	565.5	
Operative builders	153	48.0	47.7	46.9	46.3	-	21.8	21.4	21.1	20.8	-
Nonresidential building construction	154	613.2	613.8	633.6	619.4	-	479.0	480.0	494.3	480.8	-
Heavy construction contractors	16	848.1	842.9	881.0	881.1		719.0	714.2	745.4	745.2	
Highway and street construction	161	294.1	288.2	290.3	288.5		248.6	243.2	244.1	242.9	
Heavy construction, except highway	162	554.0	554.7	590.7	592.6		470.4	471.0	501.3	502.3	
Special trade contractors	17	3,167.8	3,151.7	3,314.5	3,272.9		2,527.9	2,511.3	2,642.8	2,608.2	-
Plumbing, heating, and air conditioning	171	679.8	681.9	691.0	682.3	-	508.7	510.3	513.8	507.1	
Painting, paper hanging, and decorating	172	185.9	183.6	199.3	194.5		158.0	155.4	169.2	165.2	-
Electrical work	173	565.0	565.3	580.5	572.5		444.0	443.3	452.9	445.8	
Masonry, stonework, and plastering	174	535.1	524.4	548.4	551.8	-	463.2	452.9	473.6	476.4	
Carpentering and flooring	175	199.9	198.3	213.0	210.0	-	155.9	153.6	168.7	167.2	
Roofing and sheet metal work	176	224.1	226.1	241.8	237.8	-	179.8	182.1	195.9	192.7	
Manufacturing		19,587	19,615	19,722	19,718	19,647	13,413	13,433	13,452	13,473	13,415
Durable goods		11,524	11,558	11,534	11,540	11,493	7,712	7,739	7,667	7,690	7,658
Lumber and wood products	24	783.0	781.2	786.4	780.0	773.7	653.2	650.4	654.2	648.2	642.1
Logging camps and logging contractors	241	94.7	97.7	100.9	101.1	-	78.3	81.5	83.9	84.0	-
Sawmills and planing mills	242	210.2	209.1	210.7	209.2		185.0	183.5	184.1	183.2	-
Sawmills and planing mills, general	2421	171.8	170.5	172.0	170.2		151.2	149.6	150.3	148.9	-
Hardwood dimension and flooring	2426	34.9	35.0	35.3	35.6		30.8	30.8	31.0	31.4	-
Millwork, plywood, and structural members	243	274.0	270.1	273.5	270.1	-	225.6	221.1	224.1	220.7	
Millwork	2431	108.8	106.6	108.5	106.7		88.2	85.7	87.3	85.7	
Wood kitchen cabinets	2434	72.8	72.2	71.8	71.1	-	58.4	57.5	57.4	56.6	-
Hardwood veneer and plywood	2435	24.4	24.6	24.6	24.4		21.2	21.3	21.4	21.1	
Softwood veneer and plywood	2436	38.5	37.7	37.1	36.9		34.7	34.0	33.4	33.2	-
Wood containers	244	43.9	43.9	43.5	42.9	-	37.2	37.2	36.8	36.1	
Wood buildings and mobile homes	245	72.9	72.5	72.5	71.5	-	55.7	55.2	55.7	54.8	-
Mobile homes	2451	48.5	48.7	50.6	50.0	-	39.8	39.9	41.5	40.9	
Miscellaneous wood products	249	87.3	87.9	85.3	85.2	-	71.4	71.9	69.6	69.4	-

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 ¹				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Durable goods—Continued											
Furniture and fixtures	25	531.5	535.8	527.0	529.7	529.6	425.4	429.3	419.4	422.2	422.7
Household furniture	251	307.7	311.4	301.9	304.3	-	260.4	263.8	254.0	256.3	-
Wood household furniture	2511	138.4	138.7	135.1	135.9	-	121.2	121.4	117.9	118.5	-
Upholstered household furniture	2512	100.6	101.4	101.6	101.3	-	84.5	85.3	84.6	84.6	-
Metal household furniture	2514	24.4	26.6	21.6	22.3	-	19.4	21.5	16.7	17.5	-
Mattresses and bedsprings	2515	30.9	30.6	30.2	30.5	-	24.1	23.7	23.2	23.5	-
Office furniture	252	70.7	70.6	69.5	69.2	-	53.4	53.2	51.8	51.8	-
Public building and related furniture	253	33.8	34.2	34.5	34.2	-	26.5	26.9	27.2	27.0	-
Partitions and fixtures	254	80.8	80.8	82.3	83.1	-	59.2	59.1	60.0	60.6	-
Miscellaneous furniture and fixtures	259	38.5	38.8	38.8	38.9	-	25.9	26.3	26.4	26.5	-
Stone, clay, and glass products	32	611.6	611.0	613.2	608.3	606.3	477.4	476.7	477.8	473.8	472.5
Flat glass	321	15.9	16.0	16.5	16.3	-	12.5	12.7	13.3	13.1	-
Glass and glassware, pressed or blown	322	86.5	86.1	83.9	83.8	-	74.7	74.5	72.4	72.6	-
Glass containers	3221	43.8	44.1	42.8	42.4	-	39.8	40.1	38.9	38.6	-
Pressed and blown glass, nec	3229	42.7	42.0	41.1	41.4	-	34.9	34.4	33.5	34.0	-
Products of purchased glass	323	55.2	55.3	56.0	55.9	-	41.9	42.0	43.1	42.8	-
Cement, hydraulic	324	19.7	19.6	19.9	19.4	-	15.0	14.9	15.3	14.8	-
Structural clay products	325	39.0	39.1	38.2	37.7	-	30.7	30.8	29.6	29.1	-
Pottery and related products	326	37.7	37.9	38.7	38.4	-	30.0	30.3	30.9	30.7	-
Concrete, gypsum, and plaster products	327	222.8	221.7	224.0	221.7	-	172.7	170.9	172.9	171.1	-
Concrete block and brick	3271	21.3	21.1	19.9	19.5	-	13.9	13.8	13.0	12.7	-
Concrete products, nec	3272	74.7	75.0	76.9	76.6	-	57.0	57.0	58.6	58.4	-
Ready-mixed concrete	3273	106.9	105.6	107.3	106.0	-	86.4	84.6	85.9	84.8	-
Misc. nonmetallic mineral products	329	120.3	120.7	120.7	119.6	-	88.6	89.2	88.6	87.7	-
Abrasive products	3291	22.1	22.2	22.7	22.5	-	15.3	15.5	16.2	16.0	-
Asbestos products	3292	8.9	8.8	8.7	8.6	-	6.6	6.6	6.5	6.3	-
Mineral wool	3296	26.7	27.0	26.7	26.6	-	-	-	-	-	-
Primary metal industries	33	781.1	781.4	782.7	779.0	773.8	599.9	599.8	596.7	594.7	590.5
Blast furnaces and basic steel products	331	276.7	275.4	276.3	273.5	270.6	214.6	212.9	213.1	210.8	208.8
Blast furnaces and steel mills	3312	207.9	206.9	207.9	205.8	-	162.7	161.2	161.9	160.3	-
Steel pipe and tubes	3317	24.9	24.8	24.7	24.5	-	18.8	18.8	18.6	18.4	-
Iron and steel foundries	332	142.0	142.7	143.3	143.7	-	114.5	115.3	114.5	115.3	-
Gray iron foundries	3321	87.3	87.7	86.7	87.4	-	71.7	72.2	71.0	72.0	-
Malleable iron foundries	3322	9.6	9.5	8.9	8.9	-	7.3	7.2	6.8	6.8	-
Steel foundries, nec	3325	30.2	30.3	31.4	31.1	-	23.8	23.9	24.6	24.3	-
Primary nonferrous metals	333	45.1	45.0	45.7	44.7	-	33.5	33.5	34.0	33.2	-
Primary aluminum	3334	26.9	26.8	27.0	26.2	-	20.5	20.5	20.8	20.1	-
Nonferrous rolling and drawing	335	181.5	182.0	181.0	180.6	-	130.9	131.2	129.6	129.8	-
Copper rolling and drawing	3351	23.4	23.5	23.5	23.4	-	18.0	18.1	18.0	17.9	-
Aluminum sheet, plate, and foil	3353	28.4	28.3	27.8	27.0	-	19.5	19.4	18.4	18.0	-
Nonferrous wire drawing and insulating	3357	77.7	78.2	76.6	77.3	-	56.8	57.3	55.9	56.7	-
Nonferrous foundries	336	90.2	90.7	89.9	89.9	-	72.7	73.0	71.2	71.2	-
Aluminum foundries	3361	55.3	55.3	53.3	53.0	-	45.4	45.2	42.9	42.7	-
Fabricated metal products	34	1,443.9	1,451.2	1,437.3	1,446.4	1,441.6	1,078.5	1,085.0	1,064.0	1,072.7	1,068.9
Metal cans and shipping containers	341	52.6	51.9	53.4	53.3	-	45.3	44.7	46.1	46.0	-
Metal cans	3411	42.1	41.3	42.4	42.2	-	36.6	35.9	37.0	36.8	-
Cutlery, hand tools, and hardware	342	138.8	139.0	132.4	134.0	-	102.7	103.1	97.0	98.8	-
Hand and edge tools, and hand saws and blades	3423,5	46.7	47.0	45.1	45.3	-	33.8	34.2	32.7	33.1	-
Hardware, nec	3429	80.8	80.7	75.8	77.1	-	61.1	61.1	56.3	57.6	-
Plumbing and heating, except electric	343	61.2	61.4	60.6	61.0	-	44.6	45.1	43.4	44.2	-
Plumbing fittings and brass goods	3432	24.8	24.9	25.9	25.4	-	18.2	18.3	19.0	18.7	-
Heating equipment, except electric	3433	22.8	23.0	22.6	23.0	-	16.0	16.3	15.4	15.9	-
Fabricated structural metal products	344	436.4	436.9	439.2	439.9	-	314.1	314.7	314.5	314.6	-
Fabricated structural metal	3441	78.5	78.4	79.0	79.2	-	57.2	56.8	56.9	57.1	-
Metal doors, sash, and trim	3442	84.2	83.2	84.5	84.6	-	61.9	61.1	62.3	62.0	-
Fabricated plate work (boiler shops)	3443	105.2	106.1	107.7	108.4	-	71.2	72.0	72.3	72.9	-
Sheet metal work	3444	100.8	101.4	101.1	100.9	-	75.8	76.3	75.9	75.5	-
Architectural metal work	3446	33.4	33.7	33.3	33.2	-	24.8	25.2	24.2	24.2	-

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 ¹				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc	345	101.1	101.4	99.1	100.4	-	77.7	77.6	75.5	76.4	
Screw machine products	3451	50.3	50.3	48.6	49.4	-	41.5	41.2	39.5	40.1	
Bolts, nuts, rivets, and washers	3452	50.8	51.1	50.5	51.0	-	36.2	36.4	36.0	36.3	
Metal forgings and stampings	346	230.5	233.7	226.2	231.5		183.6	186.7	178.9	183.6	
Iron and steel forgings	3462	31.9	32.1	32.0	33.2		24.5	24.5	24.6	25.7	
Automotive stampings	3465	102.2	105.0	98.3	101.9		86.0	88.7	81.7	85.0	
Metal stampings, nec	3469	83.9	84.0	83.3	83.8	-	63.9	64.2	63.0	63.4	
Metal services, nec	347	122.5	125.1	129.1	130.2		98.0	100.4	102.5	103.2	
Plating and polishing	3471	80.0	81.6	83.8	84.1		64.4	65.9	67.2	67.3	
Metal coating and allied services	3479	42.5	43.5	45.3	46.1		33.6	34.5	35.3	35.9	
Ordnance and accessories, nec	348	76.2	75.8	71.0	70.5		48.3	47.6	42.9	42.7	
Ammunition, except for small arms, nec	3483	42.2	42.0	39.6	39.0		24.0	23.5	21.0	20.6	
Misc. fabricated metal products	349	224.6	226.0	226.3	225.6		164.2	165.1	163.2	163.2	
Valves and pipe fittings	3494	76.6	76.7	78.4	77.9		51.8	51.9	52.4	52.1	
Misc. fabricated wire products	3496	54.4	55.0	56.1	55.5		41.6	42.2	42.5	42.0	
Machinery, except electrical	35	2,094.6	2,105.3	2,140.9	2,145.6	2,135.3	1,259.7	1,267.4	1,291.1	1,297.8	1,291.6
Engines and turbines	351	94.7	95.6	96.8	96.9	-	62.5	63.0	62.7	62.7	-
Turbines and turbine generator sets	3511	25.3	25.7	28.7	28.9		14.8	15.1	16.6	16.8	
Internal combustion engines, nec	3519	69.4	69.9	68.1	68.0		47.7	47.9	46.1	45.9	
Farm and garden machinery	352	103.1	104.0	106.5	107.9		73.7	74.5	75.9	77.9	
Farm machinery and equipment	3523	76.8	76.5	80.9	80.2		53.3	53.1	56.9	56.5	
Construction and related machinery	353	230.1	230.1	236.6	237.4	-	140.8	140.8	144.7	145.3	
Construction machinery	3531	82.8	82.8	84.9	86.3	-	51.5	51.7	52.6	53.3	
Mining machinery	3532	16.5	16.5	16.7	16.7		10.1	10.1	10.2	10.2	
Oil field machinery	3533	42.3	42.3	42.2	41.4	-	25.5	25.2	24.7	24.4	
Conveyors and conveying equipment	3535	35.4	35.2	36.5	36.6		19.0	18.9	19.7	19.7	
Industrial trucks and tractors	3537	27.2	27.1	28.8	28.7		18.8	18.7	19.8	19.7	
Metalworking machinery	354	318.7	321.3	334.7	337.0	-	229.6	231.4	240.5	242.7	-
Machine tools, metal cutting types	3541	49.9	50.5	53.8	54.1	-	32.0	32.4	34.7	35.1	-
Machine tools, metal forming types	3542	18.7	18.8	19.5	19.6		12.0	12.1	12.4	12.6	-
Special dies, tools, jigs, and fixtures	3544	150.6	151.8	156.4	158.3	-	115.9	116.6	120.6	122.2	-
Machine tool accessories	3545	58.8	59.3	62.0	62.1	-	42.0	42.4	44.0	44.0	-
Power driven hand tools	3546	22.5	22.6	23.5	23.5	-	16.4	16.4	16.4	16.3	-
Special industry machinery	355	174.0	174.6	178.1	178.7	-	104.4	104.6	105.9	106.6	-
Food products machinery	3551	35.4	35.4	35.8	36.0	-	21.2	21.3	21.5	21.7	-
Textile machinery	3552	21.0	20.9	20.9	20.9		14.0	13.9	13.9	13.8	
Printing trades machinery	3555	29.1	29.3	29.0	28.9	-	17.7	17.5	16.8	16.7	
General industrial machinery	356	250.3	251.9	256.6	256.9		161.5	162.9	165.6	166.1	
Pumps and pumping equipment	3561	44.5	44.9	45.9	46.1		25.7	25.7	26.8	26.9	
Ball and roller bearings	3562	42.5	42.5	43.7	44.1		32.9	33.0	34.0	34.4	
Air and gas compressors	3563	22.3	22.3	22.7	22.3		13.0	13.1	12.7	12.5	
Blowers and fans	3564	30.8	31.1	31.8	31.7		19.9	20.2	21.3	21.3	
Speed changers, drives, and gears	3566	17.2	17.3	17.6	17.6		11.9	11.9	12.2	12.3	
Power transmission equipment, nec	3568	18.4	18.5	18.8	18.7		12.4	12.6	12.8	12.7	
Office and computing machines	357	474.6	475.8	476.5	475.0		153.6	153.7	158.0	157.1	
Electronic computing equipment	3573	419.3	420.7	421.0	419.7		128.3	128.5	132.5	131.2	
Refrigeration and service machinery	358	184.3	185.4	186.8	187.1		132.6	133.7	134.4	135.0	
Refrigeration and heating equipment	3585	128.3	129.2	131.0	131.7		94.8	95.8	97.3	98.1	-
Misc. machinery, except electrical	359	264.8	266.6	268.3	268.7		201.0	202.8	203.4	204.4	-
Carburetors, pistons, rings, and valves	3592	30.9	30.9	28.1	28.3		24.5	24.6	21.8	22.1	-
Machinery, except electrical, nec	3599	233.9	235.7	240.2	240.4	-	176.5	178.2	181.6	182.3	
Electrical and electronic equipment	36	2,077.8	2,081.7	2,033.6	2,029.7	2,025.4	1,233.3	1,237.6	1,191.9	1,194.4	1,193.7
Electric distributing equipment	361	107.2	107.8	106.0	106.3	-	76.5	76.9	74.8	75.3	-
Transformers	3612	53.1	53.4	52.3	52.0		38.3	38.6	37.6	37.2	
Switchgear and switchboard apparatus	3613	54.1	54.4	53.7	54.3		38.2	38.3	37.2	38.1	
Electrical industrial apparatus	362	185.1	184.9	185.4	184.8		129.6	129.3	129.0	129.1	
Motors and generators	3621	91.0	90.7	89.6	89.9		71.5	71.2	70.2	70.9	
Industrial controls	3622	59.8	59.8	61.1	60.7		35.1	35.1	35.9	35.7	
Household appliances	363	141.9	142.5	138.0	138.3		115.2	115.8	110.3	110.9	
Household refrigerators and freezers	3632	29.0	28.7	27.9	27.0	-	23.8	23.6	22.9	22.1	
Household laundry equipment	3633	22.8	22.9	23.0	23.0		18.6	18.7	18.4	18.5	
Electric housewares and fans	3634	39.0	39.3	38.2	38.9		31.2	31.4	29.9	30.7	

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 ¹				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Durable goods—Continued											
Electrical and electronic equipment—Continued											
Electric lighting and wiring equipment	364	199.0	200.4	195.1	197.8		144.0	145.0	140.3	143.3	
Electric lamps	3641	26.5	26.6	25.7	26.1		22.6	22.5	21.8	22.3	
Current-carrying wiring devices	3643	78.7	78.6	75.9	76.2		51.2	51.2	49.0	49.6	
Noncurrent-carrying wiring devices	3644	16.5	16.5	16.6	16.6		12.1	12.2	12.4	12.3	
Residential lighting fixtures	3645	28.1	28.8	28.1	28.6		21.5	22.0	21.0	21.5	
Radio and TV receiving equipment	365	88.1	89.2	95.8	96.4		61.8	62.9	68.0	68.4	
Radio and TV receiving sets	3651	64.7	65.5	71.4	71.8	-	43.8	44.7	49.1	49.1	
Communication equipment	366	562.6	559.5	537.7	533.3	-	235.1	233.8	215.8	213.7	
Telephone and telegraph apparatus	3661	110.9	110.3	102.4	101.0		66.2	66.0	60.5	59.3	
Radio and TV communication equipment	3662	451.7	449.2	435.3	432.3		168.9	167.8	155.3	154.4	
Electronic components and accessories	367	637.0	637.9	619.3	614.7		359.8	360.3	345.1	343.9	
Electronic tubes	3671-3	38.9	38.7	38.4	38.6		25.2	25.0	24.1	24.2	
Semiconductors and related devices	3674	264.9	265.3	259.7	257.3	-	105.2	105.3	98.0	98.1	
Electronic components, nec	3679	256.5	256.7	249.8	248.2		172.3	172.6	170.8	169.9	
Misc. electrical equipment and supplies	369	156.9	159.5	156.3	158.1	-	111.3	113.6	108.6	109.8	
Storage batteries	3691	29.6	30.4	28.9	29.6		22.7	23.2	22.1	22.7	
Engine electrical equipment	3694	68.5	70.3	68.3	69.3		52.4	54.2	52.0	52.6	
Transportation equipment	37	2,053.1	2,059.8	2,032.8	2,044.3	2,026.4	1,281.3	1,286.7	1,252.5	1,266.1	1,252.1
Motor vehicles and equipment	371	865.5	870.4	846.4	850.6	832.1	676.8	681.3	650.2	654.6	638.5
Motor vehicles and car bodies	3711	359.9	363.4	354.4	355.9	-	272.8	276.1	261.4	263.2	-
Truck and bus bodies	3713	43.7	43.3	44.2	43.4		34.1	33.8	34.5	33.8	
Motor vehicle parts and accessories	3714	408.8	410.7	401.3	403.4		327.9	329.3	318.0	320.7	
Truck trailers	3715	31.8	31.4	29.2	29.0	-	25.2	25.1	23.1	22.9	
Aircraft and parts	372	694.4	693.1	699.6	704.6		336.7	335.7	335.7	340.8	
Aircraft	3721	367.1	367.8	383.3	384.2		160.3	161.2	168.0	169.1	
Aircraft engines and engine parts	3724	154.0	153.0	147.1	151.2		76.5	76.5	71.7	75.3	
Aircraft equipment, nec	3728	173.3	172.3	169.2	169.2		99.9	98.0	96.0	96.4	
Ship and boat building and repairing	373	185.9	188.6	181.9	183.4		137.9	139.5	133.6	136.0	
Ship building and repairing	3731	115.5	117.9	120.1	121.2	-	79.9	80.9	83.1	85.3	
Boat building and repairing	3732	70.4	70.7	61.8	62.2		58.0	58.6	50.5	50.7	
Railroad equipment	374	34.1	34.8	38.9	40.4	-	25.3	25.9	29.0	30.1	
Guided missiles, space vehicles, and parts	376	212.0	212.7	206.7	206.0	-	63.3	63.7	63.7	64.1	
Guided missiles and space vehicles	3761	154.5	155.2	152.5	152.2	-	43.6	43.9	43.3	43.7	
Miscellaneous transportation equipment	379	50.1	49.1	46.5	46.6		33.6	32.9	31.1	31.3	
Travel trailers and campers	3792	21.4	20.7	18.9	19.0		16.7	16.1	14.7	14.9	
Instruments and related products	38	755.0	757.6	783.1	779.1	780.2	416.7	418.6	430.4	430.3	431.3
Engineering and scientific instruments	381	96.4	96.5	99.7	99.5	-	43.5	43.6	46.3	46.3	-
Measuring and controlling devices	382	263.0	264.0	271.8	271.1		151.3	151.7	154.4	154.5	
Environmental controls	3822	49.2	48.9	49.8	49.5		32.5	32.2	33.4	33.1	
Process control instruments	3823	60.2	60.6	63.8	63.4	-	32.2	32.5	34.1	33.9	
Instruments to measure electricity	3825	107.4	107.7	110.3	109.9	-	54.9	55.1	55.0	55.4	
Optical instruments and lenses	383	29.9	30.0	30.3	30.2		15.4	15.5	16.2	16.2	
Medical instruments and supplies	384	202.7	203.6	212.6	212.6	-	122.3	123.1	127.1	127.3	
Surgical and medical instruments	3841	100.5	100.4	106.4	106.3	-	58.1	58.3	61.4	61.6	
Surgical appliances and supplies	3842	87.7	88.6	91.2	91.4		56.0	56.6	57.3	57.3	
Ophthalmic goods	385	39.2	39.1	40.2	40.5		27.1	26.9	27.9	28.0	
Photographic equipment and supplies	386	112.0	112.6	117.1	113.8	-	48.2	48.9	50.2	49.6	
Watches, clocks, and watchcases	387	11.8	11.8	11.4	11.4		8.9	8.9	8.3	8.4	
Miscellaneous manufacturing	39	391.9	393.0	396.5	398.1	401.1	286.6	287.1	288.9	289.8	292.2
Jewelry, silverware, and plated ware	391	55.3	55.4	54.2	55.5	-	39.0	39.6	38.5	39.3	-
Jewelry, precious metal	3911	39.6	39.6	39.2	40.2		27.9	28.2	27.6	28.3	
Musical instruments	393	13.2	13.2	13.0	13.1	-	11.0	11.0	10.8	10.8	
Toys and sporting goods	394	105.4	105.5	107.4	107.1		78.8	78.5	78.6	78.4	
Dolls, games, toys, and children's vehicles	3942,4	47.3	47.5	47.7	48.0		34.5	34.4	34.2	34.4	
Sporting and athletic goods, nec	3949	58.1	58.0	59.7	59.1		44.3	44.1	44.4	44.0	
Pens, pencils, office, and art supplies	395	33.5	33.5	34.3	34.0	-	23.5	23.6	23.9	23.5	-
Costume jewelry and notions	396	42.8	42.1	46.0	45.6		33.6	32.4	37.3	36.5	-
Costume jewelry	3961	22.4	21.9	25.2	25.4	-	17.3	16.7	20.5	20.4	
Miscellaneous manufactures	399	141.7	143.3	141.6	142.8	-	100.7	102.0	99.8	101.3	
Signs and advertising displays	3993	62.0	62.8	61.8	61.8	-	42.9	43.3	42.7	42.6	

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 ¹				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Nondurable goods		8,063	8,057	8,188	8,178	8,154	5,701	5,694	5,785	5,783	5,757
Food and kindred products	20	1,707.8	1,685.7	1,752.4	1,761.0	1,729.0	1,230.2	1,210.4	1,273.3	1,281.3	1,250.9
Meat products	201	405.3	408.6	427.9	427.4	-	343.4	346.6	363.9	363.7	-
Meat packing plants	2011	142.1	142.5	145.9	146.1	-	118.9	119.5	122.4	122.8	-
Sausages and other prepared meats	2013	81.2	82.2	84.1	84.0	-	59.8	60.7	62.2	62.1	-
Poultry dressing plants	2016	159.7	161.3	173.8	173.5	-	144.9	146.3	157.8	157.5	-
Dairy products	202	159.3	157.0	160.7	157.6	-	96.1	95.0	99.4	96.4	-
Cheese, natural and processed	2022	42.2	42.4	43.5	42.8	-	32.2	32.4	33.6	33.0	-
Fluid milk	2026	76.5	75.8	75.3	74.6	-	37.8	37.7	38.2	37.3	-
Preserved fruits and vegetables	203	303.2	274.7	322.7	332.4	-	256.6	228.5	274.7	284.0	-
Canned specialties	2032	25.1	24.1	26.4	27.1	-	18.4	17.6	19.9	20.6	-
Canned fruits and vegetables	2033	123.2	96.7	138.4	142.7	-	107.5	81.8	122.1	126.2	-
Frozen fruits and vegetables	2037	57.6	57.4	60.5	62.2	-	51.5	51.1	54.4	56.2	-
Grain mill products	204	126.2	126.9	129.5	130.4	-	88.0	89.2	90.1	91.1	-
Flour and other grain mill products	2041	22.1	22.0	23.8	23.9	-	15.3	15.5	15.9	16.1	-
Prepared feeds, nec	2048	42.8	43.1	42.9	43.0	-	27.2	27.4	27.1	27.3	-
Bakery products	205	204.5	204.7	205.0	205.6	-	125.7	125.6	126.3	126.8	-
Bread, cake, and related products	2051	157.0	157.5	159.3	158.9	-	88.8	89.1	91.2	90.8	-
Cookies and crackers	2052	47.5	47.2	45.7	46.7	-	36.9	36.5	35.1	36.0	-
Sugar and confectionery products	206	102.2	111.7	99.8	106.2	-	81.1	90.1	77.7	84.1	-
Cane and beet sugar	2061-3	20.1	25.6	17.4	19.8	-	15.8	21.0	13.3	15.5	-
Confectionery products	2065	60.1	64.2	60.3	64.1	-	50.4	54.2	49.7	53.7	-
Fats and oils	207	31.8	32.8	31.1	31.1	-	23.2	24.2	22.8	22.7	-
Beverages	208	206.0	201.6	203.2	202.1	-	89.5	86.5	87.2	86.5	-
Malt beverages	2082	41.9	41.6	41.6	41.1	-	25.1	24.8	25.7	25.5	-
Bottled and canned soft drinks	2086	115.7	113.5	115.3	113.5	-	39.0	37.5	38.7	37.2	-
Misc. food and kindred products	209	169.3	167.7	172.5	168.2	-	126.6	124.7	131.2	126.0	-
Tobacco manufactures	21	58.1	58.7	52.2	53.5	53.7	43.4	44.1	38.5	40.6	40.6
Cigarettes	211	40.8	40.8	38.5	36.7	-	30.0	30.1	28.3	27.3	-
Textile mill products	22	730.0	728.9	729.0	727.7	728.5	632.8	631.4	629.9	628.0	629.0
Weaving mills, cotton	221	98.9	98.2	95.7	95.9	-	89.5	88.8	86.1	86.5	-
Weaving mills, synthetics	222	90.5	90.5	90.6	90.6	-	80.1	80.1	80.2	80.1	-
Weaving and finishing mills, wool	223	18.9	19.0	19.4	19.2	-	15.3	15.4	15.6	15.5	-
Narrow fabric mills	224	24.3	24.5	24.8	24.8	-	20.9	21.0	21.1	21.1	-
Knitting mills	225	211.2	210.3	214.0	212.8	-	186.3	185.6	188.4	186.5	-
Women's hosiery, except socks	2251	32.8	32.7	32.6	32.4	-	29.8	29.6	29.2	28.9	-
Hosiery, nec	2252	36.4	36.3	38.4	38.3	-	32.8	32.7	34.9	34.7	-
Knit outerwear mills	2253	71.0	70.7	71.8	71.1	-	63.3	63.1	63.8	62.9	-
Knit underwear mills	2254	26.3	26.1	25.3	24.9	-	22.2	22.1	21.3	20.9	-
Circular knit fabric mills	2257	25.5	25.6	27.5	27.7	-	22.2	22.4	24.0	24.1	-
Textile finishing, except wool	226	60.8	60.5	61.7	62.4	-	50.2	50.0	50.5	51.0	-
Finishing plants, cotton	2261	25.4	25.4	25.7	26.2	-	20.9	21.0	20.9	21.2	-
Finishing plants, synthetics	2262	21.6	21.6	21.8	22.1	-	17.4	17.4	17.4	17.7	-
Floor covering mills	227	61.0	61.2	63.1	63.0	-	49.5	49.6	51.4	51.3	-
Yarn and thread mills	228	107.9	108.3	104.0	103.5	-	96.8	96.8	93.4	93.0	-
Yarn mills, except wool	2281	80.8	81.3	78.7	78.1	-	73.2	73.4	70.9	70.5	-
Throwing and winding mills	2282	14.9	15.0	13.9	14.0	-	13.2	13.2	12.5	12.5	-
Miscellaneous textile goods	229	56.5	56.4	55.7	55.5	-	44.2	44.1	43.2	43.0	-
Apparel and other textile products	23	1,090.8	1,092.8	1,093.5	1,090.6	1,091.4	917.7	921.5	921.3	920.1	919.6
Men's and boys' suits and coats	231	58.7	58.4	54.7	54.2	-	51.0	50.6	46.6	46.0	-
Men's and boys' furnishings	232	300.4	298.2	301.2	300.5	-	258.7	257.6	260.0	259.8	-
Men's and boys' shirts and nightwear	2321	75.6	75.4	75.7	75.7	-	64.5	64.4	65.1	65.4	-
Men's and boys' separate trousers	2327	50.5	50.6	48.7	48.7	-	43.8	44.0	41.7	41.8	-
Men's and boys' work clothing	2328	90.0	88.2	92.2	92.0	-	78.6	76.7	80.7	80.5	-
Women's and misses' outerwear	233	338.5	340.9	334.5	331.1	-	282.0	284.7	279.5	276.9	-
Women's and misses' blouses and waists	2331	44.1	44.0	42.2	41.6	-	36.3	36.3	34.8	34.5	-
Women's and misses' dresses	2335	76.4	77.6	74.8	72.9	-	63.2	64.3	61.8	59.9	-
Women's and misses' suits and coats	2337	39.1	38.4	40.1	39.6	-	32.6	31.6	33.5	33.1	-
Women's and misses' outerwear, nec	2339	178.9	180.9	177.4	177.0	-	149.9	152.5	149.4	149.4	-

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 ¹				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a
Nondurable goods—Continued											
Apparel and other textile products—Continued											
Women's and children's undergarments	234	70.9	71.2	69.5	68.9	-	58.8	59.1	57.6	57.2	-
Women's and children's underwear	2341	57.3	57.3	55.7	55.4	-	49.3	49.3	48.1	47.8	-
Brassieres and allied garments	2342	13.6	13.9	13.8	13.5	-	9.5	9.8	9.5	9.4	-
Children's outerwear	236	57.5	57.1	56.6	56.7	-	48.3	47.8	47.9	47.8	-
Children's dresses and blouses	2361	22.2	22.3	21.8	21.7	-	19.3	19.3	19.0	19.0	-
Misc. apparel and accessories	238	43.5	43.7	45.0	45.2	-	35.8	36.1	37.1	37.5	-
Misc. fabricated textile products	239	203.8	205.4	213.1	214.8	-	169.1	171.4	177.2	179.3	-
Curtains and draperies	2391	25.7	25.7	26.8	26.6	-	21.1	21.2	22.3	22.2	-
House furnishings, nec	2392	54.8	56.1	57.7	58.1	-	46.7	47.7	48.5	48.9	-
Automotive and apparel trimmings	2396	43.4	43.4	44.0	45.5	-	36.3	37.2	36.8	38.2	-
Paper and allied products	26	694.5	696.0	704.0	698.9	699.9	524.5	524.9	530.4	527.9	529.0
Paper and pulp mills	261,2,6	193.0	193.3	197.5	194.4	-	146.1	146.3	150.0	147.5	-
Paper mills, except building paper	262	172.5	172.7	177.0	174.2	-	130.1	130.1	133.6	131.4	-
Paperboard mills	263	52.5	52.2	53.7	52.8	-	40.0	39.7	41.0	40.6	-
Misc. converted paper products	264	241.0	241.8	241.3	240.1	-	176.8	176.9	175.3	175.8	-
Paper coating and glazing	2641	60.3	60.4	61.3	60.4	-	36.3	35.9	35.5	35.8	-
Envelopes	2642	26.9	27.1	26.2	26.1	-	20.8	20.9	20.3	20.2	-
Bags, except textile bags	2643	53.3	53.5	53.3	53.6	-	41.9	42.1	41.8	42.1	-
Paperboard containers and boxes	265	208.0	208.7	211.5	211.6	-	161.6	162.0	164.1	164.0	-
Folding paperboard boxes	2651	45.9	46.1	47.0	47.4	-	36.5	36.7	37.5	37.8	-
Corrugated and solid fiber boxes	2653	112.7	113.1	114.0	113.8	-	84.9	85.1	85.8	85.5	-
Sanitary food containers	2654	22.8	22.4	22.3	21.9	-	19.3	18.9	18.7	18.4	-
Printing and publishing	27	1,566.7	1,575.2	1,606.3	1,605.5	1,612.0	873.5	879.4	889.1	887.8	891.4
Newspapers	271	474.4	476.5	476.8	476.1	-	169.9	170.9	166.5	166.3	-
Periodicals	272	130.4	131.7	136.8	136.4	-	46.3	47.0	48.5	48.7	-
Books	273	114.0	113.2	120.4	118.0	-	59.5	58.3	63.0	60.7	-
Book publishing	2731	83.8	83.3	89.3	87.6	-	35.3	34.3	38.1	36.5	-
Book printing	2732	30.2	29.9	31.1	30.4	-	24.2	24.0	24.9	24.2	-
Miscellaneous publishing	274	79.0	79.4	82.9	83.0	-	39.5	40.0	40.9	40.5	-
Commercial printing	275	558.6	562.0	571.5	574.1	-	406.8	410.1	414.9	416.5	-
Commercial printing, letterpress	2751	172.7	172.8	177.5	178.3	-	123.9	124.2	127.6	128.1	-
Commercial printing, lithographic	2752	359.2	362.2	366.9	368.7	-	261.6	264.3	265.6	266.6	-
Manifold business forms	276	49.2	49.2	48.8	49.0	-	33.8	33.7	33.1	33.4	-
Blankbooks and bookbinding	278	77.7	78.7	82.9	82.4	-	61.3	62.1	64.4	63.7	-
Printing trade services	279	58.4	59.4	60.8	60.7	-	43.2	44.0	44.5	44.5	-
Chemicals and allied products	28	1,074.4	1,073.5	1,104.2	1,096.8	1,094.6	602.6	600.6	621.7	616.7	614.8
Industrial inorganic chemicals	281	133.4	132.7	136.2	135.6	-	67.3	66.5	70.7	70.4	-
Industrial inorganic chemicals, nec	2819	90.6	89.8	91.5	91.4	-	49.2	48.3	48.5	48.3	-
Plastics materials and synthetics	282	178.8	179.6	189.3	187.9	-	117.7	117.9	124.1	123.4	-
Plastics materials and resins	2821	83.7	83.9	88.7	87.9	-	49.7	49.7	52.4	52.1	-
Organic fibers, noncellulosic	2824	66.4	66.9	71.1	70.4	-	47.5	47.7	50.9	50.4	-
Drugs	283	234.0	233.6	244.8	242.9	-	102.7	102.6	107.8	106.8	-
Pharmaceutical preparations	2834	192.9	192.7	201.7	200.2	-	83.1	83.2	89.0	88.4	-
Soap, cleaners, and toilet goods	284	164.4	163.3	163.8	162.4	-	106.3	104.8	103.5	102.4	-
Soap and other detergents	2841	44.2	44.1	43.9	43.6	-	27.4	27.4	27.5	27.4	-
Polishing, sanitation, and finishing preparations	2842,3	44.3	44.5	46.1	45.9	-	25.2	25.3	25.8	25.4	-
Toilet preparations	2844	75.9	74.7	73.8	72.9	-	53.7	52.1	50.2	49.6	-
Paints and allied products	285	63.5	63.6	64.4	63.8	-	31.6	31.6	32.9	32.2	-
Industrial organic chemicals	286	147.2	147.5	150.7	150.2	-	85.3	85.1	89.2	88.6	-
Cyclic crudes and intermediates	2865	30.0	30.2	31.0	31.0	-	18.5	18.5	19.2	19.2	-
Gum, wood, and industrial organic chemicals, nec	2861,9	117.2	117.3	119.7	119.2	-	66.8	66.6	70.0	69.4	-
Agricultural chemicals	287	51.3	51.5	52.7	52.3	-	32.3	32.6	32.2	32.1	-
Miscellaneous chemical products	289	101.8	101.7	102.3	101.7	-	59.4	59.5	61.3	60.8	-
Petroleum and coal products	29	164.2	163.5	166.4	165.3	165.1	107.8	107.3	109.5	109.2	109.1
Petroleum refining	291	122.7	122.2	124.5	123.4	-	78.3	78.1	79.5	79.3	-
Paving and roofing materials	295	28.9	28.8	28.9	28.9	-	22.6	22.3	22.7	22.6	-

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 ¹				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Nondurable goods—Continued											
Rubber and misc. plastics products	30	830.7	837.5	838.1	837.6	839.5	647.7	653.8	653.2	654.3	656.1
Tires and inner tubes	301	82.3	84.6	86.2	84.6	-	60.4	62.9	64.8	64.3	-
Rubber and plastics footwear	302	11.2	11.3	10.1	11.3	-	9.3	9.3	8.2	9.4	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	26.6	27.1	27.1	27.2	-	19.7	20.1	20.1	20.5	-
Fabricated rubber products, nec	306	101.4	101.8	98.2	98.7	-	78.0	78.3	74.8	75.6	-
Miscellaneous plastics products	307	609.2	612.7	616.5	615.8	-	480.3	483.2	485.3	484.5	-
Leather and leather products	31	145.8	145.5	142.1	141.1	140.7	120.9	120.3	118.3	117.4	116.8
Leather tanning and finishing	311	13.6	13.6	14.3	14.3	-	11.4	11.3	12.0	12.0	-
Footwear, except rubber	314	83.2	82.8	80.1	78.8	-	71.1	70.5	68.6	67.3	-
Men's footwear, except athletic	3143	36.8	37.0	34.2	33.8	-	29.8	29.9	28.1	27.6	-
Women's footwear, except athletic	3144	28.5	28.0	28.2	27.8	-	25.2	24.7	25.1	24.7	-
Luggage	316	11.9	11.8	11.9	11.8	-	8.7	8.7	8.8	8.8	-
Handbags and personal leather goods	317	17.6	17.6	16.7	16.9	-	13.8	13.8	13.3	13.5	-
Transportation and public utilities		5,627	5,645	5,617	5,757	5,786	4,677	4,697	4,665	4,795	4,823
Transportation		3,410	3,432	3,521	3,594	3,623	-	-	-	-	-
Railroad transportation	40	302.3	301.4	298.0	296.2	-	-	-	-	-	-
Class I railroads ²	4011	261.6	260.7	254.0	252.2	-	-	-	-	-	-
Local and interurban passenger transit	41	324.1	330.3	279.3	348.4	-	297.1	303.8	250.3	318.4	-
Local and suburban transportation	411	122.1	122.2	131.1	132.7	-	110.8	111.2	116.3	118.1	-
Taxicabs	412	35.0	35.3	34.0	34.5	-	-	-	-	-	-
Intercity highway transportation	413	29.6	29.8	29.5	29.8	-	26.7	26.9	26.8	26.9	-
School buses	415	108.6	113.5	54.1	118.5	-	-	-	-	-	-
Trucking and warehousing	42	1,609.2	1,628.1	1,689.5	1,693.5	-	1,404.0	1,421.7	1,478.9	1,480.5	-
Trucking and trucking terminals	421,3	1,488.8	1,500.6	1,567.6	1,567.3	-	1,302.3	1,313.0	1,376.9	1,375.1	-
Public warehousing	422	120.4	127.5	121.9	126.2	-	101.7	108.7	102.0	105.4	-
Water transportation	44	180.1	174.9	185.6	181.3	-	-	-	-	-	-
Local water transportation	445	30.7	29.8	33.8	32.8	-	-	-	-	-	-
Water transportation services	446	97.8	93.7	100.2	97.5	-	-	-	-	-	-
Transportation by air	45	655.9	654.9	702.9	710.2	-	-	-	-	-	-
Air transportation	451,2	566.7	564.8	604.8	612.1	-	-	-	-	-	-
Air transportation services	458	89.2	90.1	98.1	98.1	-	-	-	-	-	-
Pipe lines, except natural gas	46	18.5	18.3	19.5	19.0	-	13.1	12.9	14.1	13.7	-
Transportation services	47	320.2	323.6	346.0	345.5	-	-	-	-	-	-
Freight forwarding	471	71.2	73.0	77.0	77.3	-	-	-	-	-	-
Communication and public utilities		2,217	2,213	2,096	2,163	2,163	-	-	-	-	-
Communication	48	1,283.1	1,280.1	1,147.7	1,224.0	-	967.6	967.7	847.2	920.6	-
Telephone communication	481	896.9	894.1	749.3	825.1	-	656.5	656.1	524.4	596.7	-
Radio and television broadcasting	483	240.5	240.1	246.5	246.9	-	197.8	197.9	203.6	204.3	-
Radio broadcasting	4832	120.0	119.7	123.1	122.4	-	-	-	-	-	-
Television broadcasting	4833	120.5	120.4	123.4	124.5	-	-	-	-	-	-
Electric, gas, and sanitary services	49	933.6	932.7	947.8	939.3	-	736.6	736.0	750.6	741.0	-
Electric services	491	453.2	452.8	452.5	447.6	-	344.4	344.7	347.5	342.6	-
Gas production and distribution	492	165.4	165.4	170.5	167.8	-	130.7	130.5	134.4	131.7	-
Combination utility services	493	193.5	193.0	195.5	194.2	-	158.4	157.9	158.9	156.9	-
Sanitary services	495	92.6	92.8	99.3	100.1	-	80.4	80.5	86.2	86.7	-
Wholesale trade		6,090	6,111	6,293	6,282	6,294	4,909	4,927	5,073	5,056	5,070
Durable goods	50	3,591	3,604	3,727	3,717	3,721	2,870	2,881	2,980	2,965	-
Motor vehicles and automotive equipment	501	433.7	433.4	439.2	436.9	-	348.6	348.8	355.3	352.4	-
Automobiles and other motor vehicles	5012	120.3	120.6	123.9	123.2	-	-	-	-	-	-
Automotive parts and supplies	5013	282.7	282.0	283.9	282.3	-	-	-	-	-	-

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 ¹				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Wholesale trade—Continued											
Durable goods—Continued											
Furniture and home furnishings	502	152.6	154.1	156.2	155.5		123.0	124.4	126.5	125.8	
Furniture	5021	70.1	70.6	72.5	72.0		-	-	-	-	
Home furnishings	5023	82.5	83.5	83.7	83.5		-	-	-	-	
Lumber and construction materials	503	229.5	229.8	242.9	241.6		188.1	188.4	199.9	198.1	
Lumber, plywood, and millwork	5031	118.6	119.0	125.4	124.5		-	-	-	-	
Construction materials, nec	5039	110.9	110.8	117.5	117.1		-	-	-	-	
Sporting goods, toys, and hobby goods	504	89.9	91.0	99.2	98.8		72.9	73.7	79.5	78.9	
Metals and minerals, except petroleum	505	141.1	142.1	144.9	144.7		112.0	112.6	115.1	114.7	
Electrical goods	506	508.0	512.0	531.8	532.9		389.9	393.4	404.1	404.2	
Electrical apparatus and equipment	5063	265.3	267.8	279.5	280.9		-	-	-	-	
Electrical appliances, TV and radios	5064	66.2	67.5	69.4	69.2		-	-	-	-	
Electronic parts and equipment	5065	176.5	176.7	182.9	182.8		-	-	-	-	
Hardware, plumbing, and heating equipment	507	280.5	280.8	284.7	282.8		226.4	226.9	231.2	229.5	
Hardware	5072	97.8	97.6	97.2	96.6		-	-	-	-	
Plumbing and hydronic heating supplies	5074	114.3	115.4	117.2	116.9		-	-	-	-	
Machinery, equipment, and supplies	508	1,529.5	1,530.1	1,587.0	1,583.0		1,226.7	1,226.9	1,274.3	1,268.1	
Commercial machines and equipment	5081	549.2	550.4	560.5	560.7	-	-	-	-	-	
Construction and mining machinery	5082	82.6	82.7	87.0	87.0		-	-	-	-	
Farm machinery and equipment	5083	118.4	117.4	126.9	125.6		-	-	-	-	
Industrial machinery and equipment	5084	336.2	337.0	352.2	352.0		-	-	-	-	
Industrial supplies	5085	139.8	140.1	148.2	147.6	-	-	-	-	-	
Professional equipment and supplies	5086	177.3	176.9	180.7	179.4		-	-	-	-	
Miscellaneous durable goods	509	226.4	230.9	240.7	240.6		182.7	186.0	194.4	193.7	
Scrap and waste materials	5093	106.0	107.8	113.2	113.6		-	-	-	-	
Nondurable goods	51	2,499	2,507	2,566	2,565	2,573	2,039	2,046	2,093	2,091	
Paper and paper products	511	220.8	221.1	230.3	230.1	-	178.4	179.2	185.4	185.2	
Drugs, proprietaries, and sundries	512	182.3	183.8	189.1	188.7		152.7	154.5	158.4	158.0	
Apparel, piece goods, and notions	513	192.5	195.0	205.4	206.0		148.6	151.0	159.4	160.0	
Groceries and related products	514	837.9	835.2	846.7	845.8		707.0	704.1	715.8	714.4	
Groceries, general line	5141	265.9	266.3	276.5	275.5		-	-	-	-	
Meats and meat products	5147	65.4	65.9	67.5	66.6		-	-	-	-	
Fresh fruits and vegetables	5148	111.3	108.1	102.1	105.4		-	-	-	-	
Chemicals and allied products	516	126.2	126.3	130.8	129.3		92.6	92.5	95.2	94.1	
Petroleum and petroleum products	517	204.4	203.8	210.2	208.2		160.4	159.7	165.8	164.1	
Petroleum bulk stations and terminals	5171	85.2	85.0	88.8	88.2		-	-	-	-	
Petroleum products, nec	5172	119.2	118.8	121.4	120.0		-	-	-	-	
Beer, wine, and distilled beverages	518	152.3	151.0	157.5	155.3		125.0	123.7	129.4	127.1	
Beer and ale	5181	97.0	95.7	101.4	99.5		-	-	-	-	
Wines and distilled beverages	5182	55.3	55.3	56.1	55.8		-	-	-	-	
Miscellaneous nondurable goods	519	450.6	451.6	473.5	473.4		365.3	365.6	383.4	383.0	
Farm supplies	5191	153.0	152.0	159.4	161.4		-	-	-	-	
Retail trade		19,266	19,281	19,758	19,708	19,692	17,058	17,069	17,510	17,439	17,437
Building materials and garden supplies	52	777.8	774.3	784.9	773.6		643.7	640.2	652.3	641.3	
Lumber and other building materials	521	437.4	433.8	438.3	431.4		367.6	364.4	371.7	365.0	
Hardware stores	525	161.8	162.2	169.8	168.6		134.5	134.6	140.1	138.8	
General merchandise stores	53	2,404.8	2,463.4	2,429.4	2,434.5	2,477.2	2,216.7	2,273.3	2,258.1	2,261.7	
Department stores	531	1,990.2	2,036.1	2,011.5	2,019.2	-	1,845.3	1,889.8	1,881.6	1,888.6	
Variety stores	533	236.8	243.2	230.4	229.5		216.6	222.5	212.0	210.6	
Misc. general merchandise stores	539	177.8	184.1	187.5	185.8		154.8	161.0	164.5	162.5	
Food stores	54	3,123.2	3,154.2	3,299.1	3,294.1	3,323.2	2,874.8	2,905.6	3,037.3	3,028.6	
Grocery stores	541	2,772.8	2,796.3	2,917.1	2,910.3	-	2,566.6	2,590.2	2,700.5	2,690.7	-
Meat markets and freezer provisioners	542	53.9	54.5	56.4	57.4		-	-	-	-	
Dairy products stores	545	27.0	28.2	35.3	35.6		-	-	-	-	
Retail bakeries	546	170.4	172.7	177.1	178.0		153.9	156.0	159.6	159.5	
Automotive dealers and service stations	55	2,132.9	2,131.6	2,182.2	2,175.4	2,175.7	1,783.7	1,779.9	1,824.6	1,816.1	-
New and used car dealers	551,2	1,047.6	1,048.4	1,046.7	1,046.7	-	869.0	868.5	869.0	868.4	
Auto and home supply stores	553	342.8	344.3	363.4	363.0		277.2	278.1	292.5	292.0	
Gasoline service stations	554	634.9	634.1	648.9	645.8	-	551.5	550.4	563.8	560.2	

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 ¹				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ²	Oct. 1989 ²	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ²	Oct. 1989 ²
Retail trade—Continued											
Apparel and accessory stores	56	1,156.4	1,170.5	1,189.8	1,173.9	-	975.1	986.2	1,001.7	983.9	-
Men's and boys' clothing and furnishings	561	105.4	107.0	105.4	104.2	-	85.2	86.4	84.4	83.2	-
Women's ready-to-wear stores	562	407.3	414.0	415.2	413.2	-	342.2	347.4	346.8	344.4	-
Family clothing stores	565	269.5	274.5	282.9	271.9	-	233.8	238.8	246.3	234.7	-
Shoe stores	566	223.0	224.6	234.2	232.5	-	185.8	186.3	194.9	192.6	-
Furniture and home furnishings stores	57	796.2	805.6	804.9	807.4	-	651.4	659.6	658.8	661.6	-
Furniture and home furnishings stores	571	460.5	466.8	472.6	472.0	-	375.0	380.4	383.8	383.7	-
Furniture stores	5712	284.2	287.4	290.6	291.0	-	-	-	-	-	-
Household appliance stores	572	85.8	85.5	76.2	76.0	-	72.0	71.7	63.4	63.0	-
Radio, television, and music stores	573	249.9	253.3	256.1	259.4	-	204.4	207.5	211.6	214.9	-
Radio and television stores	5732	175.5	178.1	178.9	180.2	-	-	-	-	-	-
Music stores	5733	74.4	75.2	77.2	79.2	-	-	-	-	-	-
Eating and drinking places	58	6,449.7	6,317.6	6,576.8	6,551.0	6,409.0	5,874.6	5,749.9	5,990.8	5,953.7	-
Miscellaneous retail	59	2,424.5	2,463.5	2,490.8	2,498.3	-	2,038.3	2,074.6	2,086.1	2,092.3	-
Drug stores and proprietary stores	591	587.9	589.8	606.1	606.2	-	501.3	503.3	513.3	513.1	-
Liquor stores	592	121.7	123.1	125.4	124.8	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	858.1	879.7	887.5	894.3	-	718.0	738.2	738.8	745.1	-
Sporting goods and bicycle shops	5941	154.5	158.7	164.1	164.0	-	-	-	-	-	-
Book stores	5942	90.2	88.9	89.2	95.1	-	-	-	-	-	-
Stationery stores	5943	82.3	83.3	84.7	85.0	-	-	-	-	-	-
Jewelry stores	5944	155.6	157.9	158.9	160.4	-	-	-	-	-	-
Gift, novelty, and souvenir shops	5947	182.9	183.9	198.7	194.9	-	-	-	-	-	-
Sewing, needlework, and piece goods	5949	62.7	65.0	62.8	64.0	-	-	-	-	-	-
Nonstore retailers	596	286.5	289.0	258.9	263.4	-	256.5	259.2	229.2	233.6	-
Mail order houses	5961	145.3	148.0	126.2	129.8	-	-	-	-	-	-
Merchandising machine operators	5962	86.1	86.3	85.5	86.3	-	-	-	-	-	-
Fuel and ice dealers	598	109.3	113.2	115.1	116.2	-	90.5	94.4	95.3	96.2	-
Retail stores, nec	599	381.7	388.6	410.9	406.3	-	308.5	313.7	336.4	331.9	-
Finance, insurance, and real estate³		6,706	6,693	6,920	6,860	6,835	4,866	4,851	5,038	4,977	4,956
Finance		3,282	3,280	3,359	3,336	3,327	-	-	-	-	-
Banking	60	1,735.0	1,732.9	1,797.7	1,784.1	-	1,236.3	1,233.8	1,282.8	1,270.4	-
Commercial and stock savings banks	602	1,552.2	1,549.1	1,591.6	1,578.8	-	1,103.4	1,100.4	1,133.1	1,121.7	-
State banks, Federal Reserve	6022	315.1	314.5	317.8	315.3	-	-	-	-	-	-
State banks, not Federal Reserve	6023,4	360.0	359.7	372.9	368.5	-	-	-	-	-	-
Mutual savings banks	603	79.0	79.0	80.9	79.2	-	-	-	-	-	-
Credit agencies other than banks	61	896.6	897.6	912.0	907.3	-	668.4	669.0	685.8	681.7	-
Savings and loan associations	612	399.4	400.1	405.4	401.0	-	302.5	303.3	308.2	304.3	-
Federal savings and loan associations	6122	229.9	230.8	235.0	231.8	-	-	-	-	-	-
State associations, insured	6123	164.4	164.2	165.3	164.1	-	-	-	-	-	-
Personal credit institutions	614	257.3	258.2	268.3	268.6	-	199.3	200.0	208.7	208.8	-
Business credit institutions	615	59.6	60.5	68.4	68.7	-	-	-	-	-	-
Mortgage bankers and brokers	616	157.2	156.1	148.1	147.3	-	-	-	-	-	-
Security, commodity brokers, and services	62	443.0	442.4	435.1	431.5	-	-	-	-	-	-
Security brokers and dealers	621	347.6	346.8	334.9	332.5	-	-	-	-	-	-
Holding and other investment offices	67	207.2	206.6	214.5	212.9	-	-	-	-	-	-
Insurance		2,087	2,094	2,143	2,132	2,136	-	-	-	-	-
Insurance carriers	63	1,443.4	1,446.7	1,478.2	1,471.1	-	965.7	967.5	986.4	978.2	-
Life insurance	631	574.6	574.7	578.3	575.2	-	343.1	343.4	350.7	346.9	-
Medical service and health insurance	632	219.3	221.9	235.7	235.5	-	177.0	179.0	190.3	189.9	-
Fire, marine, and casualty insurance	633	541.0	541.4	550.5	547.2	-	363.4	362.6	357.9	354.2	-
Title insurance	636	58.9	58.6	60.2	60.0	-	-	-	-	-	-
Insurance agents, brokers, and service	64	643.6	647.0	664.5	661.1	-	-	-	-	-	-

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 ¹				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Finance, insurance, and real estate—Continued											
Real estate, and combined real estate, insurance, etc		1,337	1,319	1,418	1,392	1,372					
Real estate	65	1,327.4	1,309.3	1,409.0	1,383.4						
Real estate operators and lessors	651	576.8	565.2	614.1	601.9						
Real estate agents and managers	653	544.3	540.5	570.6	561.8						
Subdividers and developers	655	174.6	172.1	191.3	186.8						
Combined real estate, insurance, etc	66	9.2	9.3	9.0	9.0						
Services		25,970	26,086	27,247	27,204	27,316	22,703	22,819	23,790	23,729	23,835
Hotels and other lodging places	70	1,606.3	1,563.5	1,729.3	1,648.7		-	-	-	-	
Hotels, motels, and tourist courts	701	1,562.1	1,523.2	1,633.1	1,597.3		1,395.5	1,359.2	1,456.4	1,420.3	
Personal services	72	1,157.9	1,165.6	1,166.3	1,177.1		-	-	-	-	
Laundry, cleaning, and garment services	721	414.2	415.3	409.9	411.2		367.9	369.1	364.5	365.3	
Photographic studios, portrait	722	59.2	62.7	59.0	61.9		-	-	-	-	
Beauty shops	723	365.9	364.6	367.3	369.4		326.5	324.9	327.6	329.6	
Funeral service and crematories	726	79.7	79.8	81.8	81.6		-	-	-	-	
Business services	73	5,701.8	5,723.5	5,864.2	5,882.2	5,889.1	4,893.6	4,908.7	4,998.4	5,010.6	
Advertising	731	241.6	244.4	260.6	258.7	-	178.5	180.7	193.1	192.5	
Advertising agencies	7311	173.7	176.0	189.4	187.6		-	-	-	-	
Credit reporting and collection	732	91.6	91.5	96.7	96.3		-	-	-	-	
Mailing, reproduction, and stenographic	733	221.5	226.5	246.5	251.6		-	-	-	-	
Services to buildings	734	811.9	805.3	817.0	813.6		734.0	727.6	740.0	736.3	
Personnel supply services	736	1,419.4	1,417.3	1,373.6	1,388.2		-	-	-	-	
Employment agencies	7361	229.2	232.9	216.7	216.7		-	-	-	-	
Temporary help supply services	7362	1,083.3	1,078.2	1,054.1	1,067.8		-	-	-	-	
Computer and data processing services	737	693.8	702.6	774.8	775.4		538.3	545.3	601.1	598.9	
Computer programming and software	7372	316.4	321.3	360.8	362.1		-	-	-	-	
Data processing services	7374	259.2	262.8	287.9	288.2		-	-	-	-	
Miscellaneous business services	739	2,210.0	2,223.9	2,281.7	2,285.0		-	-	-	-	
Research development laboratories, nec	7391	215.8	215.0	221.1	219.2		-	-	-	-	
Management and public relations	7392	535.4	537.0	554.5	553.1		-	-	-	-	
Detective and protective services	7393	472.8	472.8	482.6	485.7		-	-	-	-	
Equipment rental and leasing	7394	267.9	268.3	281.1	280.3		-	-	-	-	
Photofinishing laboratories	7395	86.7	88.9	82.3	84.2		-	-	-	-	
Auto repair, services, and garages	75	852.9	857.8	910.1	910.8		704.9	708.7	749.3	750.0	
Automotive rentals, without drivers	751	168.9	169.2	188.9	190.2		-	-	-	-	
Automotive repair shops	753	497.2	498.9	530.7	529.6		410.3	411.1	434.3	433.1	
Miscellaneous repair services	76	352.4	351.5	365.1	364.5		288.1	287.4	300.6	299.6	
Electrical repair shops	762	112.4	113.1	125.7	125.2		-	-	-	-	
Motion pictures	78	250.7	237.5	282.7	271.2		210.1	198.0	240.9	229.5	
Motion picture production and services	781	123.0	119.2	144.2	144.0		97.5	94.0	118.3	117.7	
Motion picture theaters	783	109.8	100.6	120.4	110.1		-	-	-	-	
Amusement and recreation services	79	975.8	891.6	1,153.8	1,037.2		838.2	769.2	1,019.3	904.9	
Health services	80	7,229.2	7,266.7	7,717.7	7,734.0	7,766.7	6,426.1	6,455.1	6,859.6	6,871.4	
Offices of physicians	801	1,127.2	1,134.4	1,220.6	1,224.3	-	924.0	929.0	997.6	1,000.2	
Offices of dentists	802	489.9	491.5	516.1	517.2		428.9	429.8	450.6	452.0	
Nursing and personal care facilities	805	1,330.1	1,331.8	1,400.6	1,399.4		1,201.7	1,201.8	1,266.3	1,265.0	
Skilled nursing care facilities	8051	921.5	923.1	969.5	969.4		-	-	-	-	
Nursing and personal care, nec	8059	408.6	408.7	431.1	430.0		-	-	-	-	
Hospitals	806	3,337.9	3,353.4	3,523.9	3,530.0		3,052.7	3,064.9	3,224.9	3,229.5	
General medical and surgical hospitals	8062	3,088.6	3,102.0	3,260.7	3,267.3		-	-	-	-	
Psychiatric hospitals	8063	92.4	93.0	96.9	96.4		-	-	-	-	
Specialty hospitals, excluding psychiatric	8069	156.9	158.4	166.3	166.3		-	-	-	-	
Medical and dental laboratories	807	151.6	155.4	174.0	174.4		-	-	-	-	
Outpatient care facilities	808	275.1	279.1	324.9	328.0		-	-	-	-	

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 ¹				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Services—Continued											
Legal services	81	855.2	861.4	914.6	899.1	-	712.8	717.4	760.2	742.9	
Educational services	82	1,544.9	1,690.4	1,408.5	1,601.5						
Elementary and secondary schools	821	391.9	404.1	358.8	398.0	-					
Colleges and universities	822	944.0	1,069.8	806.6	965.8	-					
Correspondence and vocational schools	824	94.0	97.2	103.4	104.4			-			
Social services	83	1,619.8	1,642.4	1,720.0	1,747.1	-					
Individual and family services	832	338.9	341.8	357.9	350.4						
Job training and related services	833	230.2	233.0	257.9	239.3	-					
Residential care	836	396.5	398.5	432.7	432.1						
Museums, botanical and zoological gardens	84	51.7	51.9	55.7	53.1	-		-			
Membership organizations	86	1,724.5	1,733.6	1,802.7	1,752.5	-					
Business associations	861	100.5	99.6	103.5	100.4			-			
Labor organizations	863	133.8	135.1	131.6	134.3	-	-				
Civic and social associations	864	371.2	379.0	441.8	396.1				-		
Miscellaneous services	89	1,392.9	1,396.8	1,472.7	1,462.7		1,115.4	1,118.6	1,176.6	1,163.2	
Engineering and architectural services	891	733.0	733.6	774.7	764.9	-	610.2	609.5	642.5	632.8	
Noncommercial research organizations	892	133.7	135.4	151.1	149.2	-	-	-	-	-	
Accounting, auditing, and bookkeeping	893	493.1	494.7	510.5	508.6	-	373.8	376.7	387.4	382.9	
Government		17,185	17,708	16,693	17,606	18,228					
Federal Government⁴		2,968	2,968	3,011	2,998	2,989					
Executive, by agency ⁴		2,909.1	2,909.1	2,951.1	-						
Department of Defense		951.0	951.3	983.3	-			-		-	
Postal Service ⁵		828.3	830.0	829.2				-		-	
Other executive agencies		1,129.8	1,127.8	1,138.6				-		-	
Legislative		37.5	37.3	38.3							
Judicial		21.3	21.1	21.6							
Federal government, by industry:											
Manufacturing activities		121.2	121.2	125.2	124.3	-		-			
Shipbuilding and repairing	3731	73.8	74.1	74.4	73.6	-					
Transportation and public utilities, except Postal											
Service		39.4	38.6	38.9	39.8	-		-		-	
Services		433.1	436.5	439.6	444.2	-					
Hospitals	806	248.0	247.2	251.2	251.3	-		-			
State government		4,016	4,179	3,926	4,138	4,330					
Hospitals	806	445.8	447.2	449.4	449.2	-					
Education	82	1,545.5	1,723.5	1,359.8	1,594.1				-		
General administration, including executive, legislative, and judicial functions		1,494.8	1,482.4	1,562.3	1,550.2				-		
Local government		10,201	10,561	9,756	10,470	10,909			-		
Transportation and public utilities		490.5	490.4	503.1	498.4	-					
Hospitals	806	626.6	628.0	653.1	657.7	-					
Education	82	5,566.0	5,979.3	4,761.8	5,699.4	-					
General administration, including executive, legislative, and judicial functions		3,169.0	3,131.7	3,439.9	3,246.6	-					

¹ 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.

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

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

⁴ Prepared by the Office of Personnel Management. Data relate to

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

⁵ Includes rural mail carriers.

- Data not available.

^p = 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	July 1988	Aug. 1988	June 1989	July 1989	Aug. 1989
Total	48,402	48,510	51,094	50,178	50,265
Total private	40,276	40,450	41,907	41,767	41,900
Goods-producing	7,004	7,097	7,202	7,131	7,222
Mining	98	99	99	99	100
Construction	562	565	584	589	592
Manufacturing	6,344	6,433	6,519	6,443	6,530
Durable goods	3,054	3,076	3,116	3,074	3,094
Lumber and wood products	127	127	128	126	127
Furniture and fixtures	160	163	166	164	164
Stone, clay, and glass products	123	123	125	124	124
Primary metal industries	104	106	109	106	108
Fabricated metal products	321	324	328	321	324
Machinery, except electrical	462	461	477	474	472
Electrical and electronic equipment	860	867	850	839	845
Transportation equipment	399	396	410	404	406
Instruments and related products	326	330	339	339	340
Miscellaneous manufacturing	174	181	184	177	185
Nondurable goods	3,290	3,357	3,403	3,369	3,436
Food and kindred products	537	563	537	564	586
Tobacco manufactures	16	18	16	16	17
Textile mill products	346	351	355	348	353
Apparel and other textile products	837	861	879	840	867
Paper and allied products	171	172	174	175	176
Printing and publishing	676	679	709	708	707
Chemicals and allied products	315	316	329	327	330
Petroleum and coal products	25	25	27	27	27
Rubber and misc. plastics products	285	286	293	286	290
Leather and leather products	82	87	84	79	84
Service-producing	41,398	41,413	43,892	43,047	43,043
Transportation and public utilities	1,581	1,585	1,653	1,634	1,566
Wholesale trade	1,806	1,811	1,897	1,897	1,905
Retail trade	10,154	10,203	10,449	10,407	10,475
Finance, insurance, and real estate	4,207	4,210	4,301	4,316	4,326
Services	15,524	15,544	16,405	16,382	16,406
Government	8,126	8,060	9,187	8,411	8,365
Federal	1,069	1,065	1,082	1,085	1,076
State	1,871	1,875	1,974	1,919	1,919
Local	5,186	5,120	6,131	5,407	5,370

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	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^P	Oct. ^P
Total	106,475	106,824	107,097	107,442	107,711	107,888	108,101	108,310	108,607	108,767	108,887	109,088	109,321
Total private	88,991	89,299	89,574	89,897	90,124	90,291	90,475	90,623	90,884	91,016	91,083	91,185	91,324
Goods-producing	25,384	25,460	25,513	25,626	25,629	25,646	25,671	25,672	25,648	25,669	25,694	25,607	25,604
Mining	717	712	711	711	711	714	720	722	715	706	729	730	732
Oil and gas extraction	400	396	394	393	394	397	400	401	402	404	405	408	410
Construction	5,162	5,191	5,213	5,267	5,270	5,252	5,279	5,283	5,283	5,314	5,321	5,321	5,329
General building contractors	1,363	1,375	1,380	1,404	1,398	1,380	1,377	1,388	1,384	1,391	1,403	1,396	1,386
Manufacturing	19,505	19,557	19,589	19,648	19,648	19,680	19,672	19,667	19,650	19,649	19,644	19,556	19,543
Durable goods	11,509	11,545	11,565	11,605	11,594	11,604	11,600	11,594	11,567	11,549	11,551	11,477	11,449
Lumber and wood products	770	775	780	784	778	777	772	771	769	767	763	759	763
Furniture and fixtures	531	532	532	532	534	535	537	534	534	536	529	528	525
Stone, clay, and glass products	603	605	607	607	608	607	606	604	603	602	601	596	599
Primary metal industries	783	784	785	786	786	788	788	787	787	785	786	776	775
Blast furnaces and basic steel products	277	277	276	276	276	276	275	276	276	277	276	273	272
Fabricated metal products	1,442	1,445	1,449	1,458	1,458	1,457	1,454	1,452	1,449	1,446	1,443	1,438	1,433
Machinery, except electrical	2,110	2,120	2,126	2,134	2,138	2,143	2,144	2,150	2,151	2,154	2,152	2,148	2,140
Electrical and electronic equipment	2,073	2,075	2,067	2,065	2,062	2,060	2,058	2,050	2,041	2,040	2,034	2,024	2,017
Transportation equipment	2,055	2,060	2,063	2,079	2,067	2,071	2,073	2,076	2,062	2,046	2,068	2,036	2,024
Motor vehicles and equipment	865	867	867	882	871	869	875	876	861	844	873	844	830
Instruments and related products	758	762	767	770	772	776	777	778	779	781	782	780	781
Miscellaneous manufacturing	384	387	389	390	391	390	391	392	392	392	393	392	392
Nondurable goods	7,996	8,012	8,024	8,043	8,054	8,076	8,072	8,073	8,083	8,100	8,093	8,079	8,094
Food and kindred products	1,644	1,648	1,646	1,650	1,650	1,655	1,657	1,656	1,663	1,678	1,667	1,677	1,684
Tobacco manufactures	55	56	56	56	56	56	54	53	52	53	52	51	51
Textile mill products	726	725	724	728	728	729	728	728	729	730	727	723	726
Apparel and other textile products	1,083	1,088	1,090	1,092	1,096	1,101	1,098	1,095	1,093	1,094	1,095	1,085	1,083
Paper and allied products	695	695	696	696	696	697	696	697	697	701	700	697	699
Printing and publishing	1,577	1,581	1,588	1,595	1,595	1,600	1,601	1,603	1,607	1,609	1,611	1,612	1,614
Chemicals and allied products	1,074	1,075	1,079	1,084	1,085	1,088	1,090	1,094	1,096	1,091	1,097	1,095	1,096
Petroleum and coal products	162	162	162	160	161	161	162	162	163	163	163	163	164
Rubber and misc. plastics products	836	839	840	839	843	845	843	843	841	841	841	837	838
Leather and leather products	144	143	143	143	144	144	143	142	142	140	140	139	139
Service-producing	81,091	81,364	81,584	81,816	82,082	82,242	82,430	82,638	82,959	83,098	83,193	83,481	83,717
Transportation and public utilities	5,596	5,616	5,634	5,654	5,667	5,666	5,682	5,700	5,716	5,736	5,618	5,711	5,738
Transportation	3,381	3,402	3,421	3,439	3,453	3,452	3,467	3,484	3,500	3,524	3,539	3,548	3,573
Communication and public utilities	2,215	2,214	2,213	2,215	2,214	2,214	2,215	2,216	2,216	2,212	2,079	2,163	2,165
Wholesale trade	6,086	6,104	6,125	6,146	6,171	6,197	6,206	6,222	6,230	6,237	6,256	6,264	6,270
Durable goods	3,599	3,612	3,626	3,638	3,657	3,676	3,676	3,685	3,693	3,700	3,708	3,717	3,717
Nondurable goods	2,487	2,492	2,499	2,508	2,514	2,521	2,530	2,537	2,537	2,537	2,548	2,547	2,553
Retail trade	19,229	19,282	19,328	19,407	19,460	19,488	19,489	19,528	19,551	19,586	19,621	19,629	19,653
General merchandise stores	2,447	2,452	2,460	2,472	2,481	2,490	2,492	2,491	2,493	2,482	2,484	2,484	2,465
Food stores	3,149	3,165	3,182	3,200	3,212	3,223	3,233	3,245	3,262	3,274	3,293	3,294	3,317
Automotive dealers and service stations	2,124	2,131	2,136	2,143	2,150	2,155	2,159	2,159	2,155	2,155	2,152	2,156	2,169
Eating and drinking places	6,314	6,322	6,328	6,323	6,332	6,322	6,335	6,348	6,362	6,370	6,385	6,397	6,403
Finance, insurance, and real estate	6,710	6,726	6,744	6,746	6,763	6,774	6,776	6,790	6,808	6,815	6,836	6,851	6,852
Finance	3,293	3,299	3,307	3,308	3,311	3,316	3,312	3,320	3,320	3,324	3,336	3,343	3,340
Insurance	2,098	2,102	2,110	2,109	2,116	2,117	2,119	2,123	2,129	2,131	2,137	2,138	2,140
Real estate	1,319	1,325	1,327	1,329	1,336	1,341	1,345	1,347	1,359	1,360	1,363	1,370	1,372
Services	25,986	26,111	26,230	26,318	26,434	26,520	26,651	26,711	26,931	26,973	27,058	27,123	27,207
Business services	5,667	5,682	5,715	5,707	5,729	5,736	5,760	5,776	5,799	5,786	5,800	5,830	5,831
Health services	7,267	7,313	7,359	7,396	7,442	7,488	7,528	7,570	7,616	7,648	7,695	7,734	7,767
Government	17,484	17,525	17,523	17,545	17,587	17,597	17,626	17,687	17,723	17,751	17,804	17,903	17,997
Federal	2,986	2,983	2,981	2,978	2,982	2,982	2,982	2,999	2,995	3,000	2,999	3,016	3,004
State	4,081	4,085	4,085	4,084	4,095	4,102	4,111	4,119	4,136	4,145	4,154	4,214	4,224
Local	10,417	10,457	10,457	10,483	10,510	10,513	10,533	10,569	10,592	10,606	10,651	10,673	10,769

^P = 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	1988					1989							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Total	49,338	49,488	49,586	49,799	49,963	50,130	50,302	50,414	50,515	50,670	50,894	51,023	51,124
Total private	40,393	40,503	40,602	40,776	40,943	41,093	41,239	41,340	41,418	41,530	41,717	41,794	41,832
Goods-producing	7,049	7,054	7,069	7,095	7,112	7,141	7,152	7,159	7,161	7,166	7,165	7,176	7,167
Mining	98	97	97	97	97	97	97	97	97	97	99	98	99
Construction	554	555	555	557	561	566	571	571	573	577	577	577	580
Manufacturing	6,397	6,402	6,417	6,441	6,454	6,478	6,484	6,491	6,491	6,492	6,489	6,501	6,488
Durable goods	3,084	3,082	3,087	3,097	3,103	3,113	3,111	3,109	3,111	3,108	3,103	3,103	3,099
Lumber and wood products	125	125	125	127	127	127	127	127	127	126	125	124	124
Furniture and fixtures	164	165	165	165	165	166	166	167	167	167	167	169	165
Stone, clay, and glass products	122	121	122	122	123	123	123	123	124	124	123	123	123
Primary metal industries	106	106	106	106	107	108	107	108	108	108	108	107	108
Fabricated metal products	325	325	325	327	327	330	329	328	327	327	326	327	325
Machinery, except electrical	464	465	467	469	469	471	471	471	471	472	474	475	475
Electrical and electronic equipment	868	867	868	869	866	864	863	860	859	853	850	847	846
Transportation equipment	401	399	401	402	405	407	407	408	409	410	409	407	410
Instruments and related products	330	330	331	332	335	337	337	337	338	339	338	341	340
Miscellaneous manufacturing	179	179	177	178	179	180	181	180	182	182	183	183	183
Nondurable goods	3,313	3,320	3,330	3,344	3,351	3,365	3,373	3,382	3,380	3,384	3,386	3,398	3,389
Food and kindred products	520	524	531	535	532	536	537	537	537	537	540	551	540
Tobacco manufactures	18	18	18	18	19	18	19	19	18	17	17	18	18
Textile mill products	349	349	349	350	350	352	352	354	353	353	353	353	352
Apparel and other textile products	863	863	862	867	869	871	874	877	875	873	871	870	869
Paper and allied products	170	171	171	171	171	171	171	171	171	171	172	173	174
Printing and publishing	681	682	685	688	692	697	698	700	702	706	708	709	710
Chemicals and allied products	313	314	315	315	316	318	319	321	322	325	325	324	326
Petroleum and coal products	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Rubber and misc. plastics products	289	289	289	291	292	292	292	293	292	292	291	292	292
Leather and leather products	85	85	85	84	84	84	85	84	84	84	83	82	82
Service-producing	42,289	42,434	42,517	42,704	42,851	42,989	43,150	43,255	43,354	43,504	43,729	43,847	43,957
Transportation and public utilities	1,604	1,604	1,608	1,614	1,621	1,626	1,630	1,629	1,628	1,635	1,645	1,652	1,585
Wholesale trade	1,811	1,820	1,827	1,835	1,845	1,854	1,862	1,866	1,876	1,888	1,893	1,899	1,905
Retail trade	10,171	10,179	10,190	10,213	10,238	10,287	10,318	10,336	10,337	10,373	10,387	10,407	10,444
Finance, insurance, and real estate	4,178	4,188	4,199	4,212	4,222	4,227	4,242	4,249	4,247	4,257	4,271	4,278	4,292
Services	15,580	15,658	15,709	15,807	15,905	15,958	16,035	16,101	16,169	16,211	16,356	16,382	16,439
Government	8,945	8,985	8,984	9,023	9,020	9,037	9,063	9,074	9,097	9,140	9,177	9,229	9,292
Federal	1,059	1,065	1,067	1,066	1,065	1,063	1,064	1,064	1,064	1,070	1,070	1,071	1,070
State	2,003	2,015	2,009	2,013	2,013	2,012	2,017	2,020	2,023	2,034	2,043	2,048	2,050
Local	5,883	5,905	5,908	5,944	5,942	5,962	5,982	5,990	6,010	6,036	6,064	6,110	6,172

¹ 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 workers¹ on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

(In thousands)

Industry	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^p	Oct. ^p
Total private	72,021	72,273	72,494	72,774	72,949	73,101	73,204	73,315	73,555	73,670	73,741	73,789	73,891
Goods-producing	17,865	17,929	17,963	18,065	18,048	18,052	18,053	18,058	18,022	18,047	18,071	17,989	17,982
Mining	515	511	510	510	510	514	519	521	511	503	525	525	527
Construction	4,026	4,053	4,068	4,132	4,112	4,096	4,104	4,111	4,111	4,134	4,145	4,143	4,144
Manufacturing	13,324	13,365	13,385	13,423	13,426	13,442	13,430	13,426	13,400	13,410	13,401	13,321	13,311
Durable goods	7,690	7,717	7,730	7,758	7,749	7,749	7,744	7,735	7,706	7,697	7,696	7,631	7,613
Lumber and wood products	641	645	647	652	648	646	642	641	638	636	633	630	633
Furniture and fixtures	425	426	426	426	427	428	428	427	426	427	421	421	419
Stone, clay, and glass products	469	470	472	473	474	472	471	469	468	468	467	463	465
Primary metal industries	600	601	602	603	602	603	603	601	602	601	600	591	591
Blast furnaces and basic steel products	216	217	216	215	215	213	211	210	211	211	214	212	212
Fabricated metal products	1,076	1,079	1,082	1,089	1,087	1,086	1,080	1,079	1,074	1,073	1,069	1,063	1,060
Machinery, except electrical	1,270	1,279	1,285	1,292	1,298	1,298	1,298	1,302	1,303	1,309	1,304	1,299	1,294
Electrical and electronic equipment	1,228	1,233	1,224	1,222	1,218	1,214	1,213	1,205	1,198	1,199	1,195	1,188	1,184
Transportation equipment	1,283	1,283	1,285	1,294	1,286	1,292	1,297	1,297	1,284	1,270	1,291	1,261	1,251
Motor vehicles and equipment	676	676	676	687	677	675	680	681	667	650	677	649	635
Instruments and related products	419	421	425	424	425	427	428	430	429	431	430	431	432
Miscellaneous manufacturing	279	280	282	283	284	283	284	284	284	283	286	284	284
Nondurable goods	5,634	5,648	5,655	5,665	5,677	5,693	5,686	5,691	5,694	5,713	5,705	5,690	5,698
Food and kindred products	1,169	1,173	1,172	1,175	1,177	1,182	1,184	1,184	1,190	1,205	1,197	1,205	1,207
Tobacco manufactures	41	42	42	41	41	41	40	38	38	39	39	38	38
Textile mill products	629	628	628	630	630	630	630	630	630	631	627	624	627
Apparel and other textile products	912	916	919	922	926	930	927	925	922	922	922	915	911
Paper and allied products	524	525	525	524	524	525	524	525	525	528	528	526	528
Printing and publishing	881	883	886	887	888	891	889	891	892	893	894	892	893
Chemicals and allied products	602	602	604	607	608	610	609	614	616	614	617	614	617
Petroleum and coal products	106	106	105	104	105	105	105	106	107	107	107	107	107
Rubber and misc. plastics products	652	655	656	656	659	660	660	660	656	657	658	654	655
Leather and leather products	118	118	118	119	119	119	118	118	118	117	116	115	115
Service-producing	54,156	54,344	54,531	54,709	54,901	55,049	55,151	55,257	55,533	55,623	55,670	55,800	55,909
Transportation and public utilities	4,653	4,671	4,691	4,704	4,718	4,718	4,735	4,752	4,763	4,779	4,665	4,752	4,780
Wholesale trade	4,903	4,917	4,931	4,948	4,970	4,990	4,996	5,007	5,016	5,021	5,038	5,036	5,050
Retail trade	17,017	17,066	17,106	17,171	17,215	17,244	17,235	17,280	17,317	17,338	17,388	17,387	17,368
Finance, insurance, and real estate	4,866	4,873	4,879	4,886	4,893	4,900	4,902	4,918	4,933	4,944	4,954	4,967	4,971
Services	22,717	22,817	22,924	23,000	23,105	23,197	23,283	23,300	23,504	23,541	23,625	23,658	23,740

¹ 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.

^p = 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.

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

(Percent)

Year	Private nonagricultural payrolls, 349 industries ¹											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span												
1977	63.5	60.5	70.3	67.9	68.6	63.8	64.5	61.3	65.9	61.3	67.0	67.9
1978	62.5	64.3	70.2	70.1	64.6	67.6	61.6	62.2	62.0	64.3	70.9	66.6
1979	63.9	61.0	64.8	52.7	61.6	61.3	55.7	53.2	50.7	61.3	54.2	53.9
1980	54.6	53.4	49.7	37.4	40.8	38.0	42.3	59.0	55.7	63.8	59.3	58.6
1981	58.5	52.7	54.0	64.5	57.0	53.3	57.7	51.3	45.8	42.3	40.3	36.0
1982	37.2	47.3	40.1	41.5	49.3	38.1	42.8	39.1	44.7	36.2	40.1	43.6
1983	55.0	47.9	60.2	65.6	66.3	66.5	67.2	68.9	70.1	66.6	67.6	64.6
1984	67.8	70.6	65.2	67.8	63.3	67.2	59.6	61.9	57.2	62.9	59.3	57.7
1985	58.5	52.3	60.2	53.2	58.5	51.4	57.6	60.7	53.6	56.3	56.6	59.7
1986	55.4	53.7	53.2	56.3	55.2	50.7	54.7	56.3	57.9	54.6	58.0	61.7
1987	55.6	59.3	61.0	61.9	58.6	59.7	65.3	60.6	63.0	67.8	64.5	60.7
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	66.3	60.5	61.0	58.2	55.6	59.7	55.6	57.4	^P 47.4	^P 58.2		
Over 3-month span												
1977	70.2	74.5	76.4	79.2	74.8	72.1	69.3	72.1	70.5	73.5	73.6	72.5
1978	71.9	73.8	76.9	76.9	74.9	71.1	69.2	65.8	66.3	73.5	74.8	76.2
1979	69.5	71.8	65.8	66.2	62.0	64.0	58.9	53.3	57.6	58.6	62.2	56.2
1980	56.6	51.4	42.0	38.3	35.5	37.4	42.8	50.9	65.3	66.9	68.5	64.3
1981	59.5	55.6	58.9	64.6	63.3	60.7	57.0	52.4	43.3	40.0	34.0	30.9
1982	31.2	34.8	37.7	41.5	40.3	40.3	34.8	38.3	35.4	35.8	34.0	46.6
1983	48.4	57.0	62.6	71.9	72.1	74.4	72.6	77.2	77.2	74.6	71.6	73.6
1984	74.9	75.5	78.2	72.8	73.6	68.8	67.8	65.5	64.6	62.2	61.9	61.6
1985	58.3	58.3	55.6	59.0	55.4	57.6	56.6	58.7	58.5	56.9	59.5	59.3
1986	57.7	53.0	54.4	55.4	53.3	51.4	52.9	58.7	57.0	59.7	62.0	62.0
1987	60.7	62.0	66.6	65.2	65.8	65.9	67.8	71.1	71.2	72.3	70.9	65.9
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	^P 53.0	^P 55.0			
Over 6-month span												
1977	79.1	81.8	78.7	78.4	78.1	79.7	76.2	76.2	77.5	76.6	78.1	78.4
1978	77.8	81.4	81.2	79.8	78.7	76.2	73.6	76.9	75.6	76.8	76.1	77.8
1979	74.6	73.9	71.2	66.8	63.2	57.9	62.9	59.5	57.7	58.6	60.9	57.7
1980	48.6	44.7	41.1	37.4	37.1	37.5	44.4	51.9	61.2	70.9	68.9	66.2
1981	66.5	65.2	62.9	64.9	61.3	58.0	50.3	43.0	39.0	32.2	32.5	28.7
1982	28.5	29.7	33.0	38.8	37.2	36.8	34.5	33.8	34.8	38.1	39.1	43.1
1983	55.2	62.2	67.3	71.1	76.4	78.2	79.4	79.5	78.2	77.2	78.1	77.7
1984	78.7	78.9	80.2	77.1	74.4	72.6	70.1	68.6	64.9	63.9	61.6	62.6
1985	58.7	59.7	58.2	57.6	58.6	57.6	57.6	56.2	59.5	59.7	58.3	55.6
1986	55.6	56.6	52.7	52.9	53.4	56.0	55.6	57.0	62.3	61.6	62.9	63.2
1987	67.3	65.8	64.8	66.8	67.6	69.5	71.3	73.5	73.2	71.5	71.8	72.2
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	^P 58.5	^P 60.9					
Over 12-month span												
1977	79.2	80.1	81.8	81.9	84.8	84.7	84.5	83.4	83.7	83.0	82.5	82.1
1978	81.9	82.2	81.8	81.9	83.0	82.8	83.4	81.4	81.7	75.8	78.1	75.5
1979	75.9	75.4	74.8	72.1	68.2	66.0	66.0	63.6	59.7	57.6	52.0	48.7
1980	47.0	46.4	46.8	45.3	43.7	43.8	43.6	42.8	44.3	50.6	57.2	62.2
1981	71.2	68.3	68.1	61.3	53.4	48.0	42.3	38.8	36.4	33.1	34.1	32.2
1982	32.4	31.1	29.7	30.4	30.4	31.4	35.0	35.1	38.8	43.4	46.7	51.4
1983	57.0	61.9	66.5	72.8	75.8	77.2	76.8	80.7	80.4	81.4	83.0	81.9
1984	81.7	79.5	78.7	77.1	76.2	74.1	73.1	70.2	69.1	65.2	63.8	61.5
1985	59.5	59.2	59.2	56.9	56.6	58.5	55.9	55.9	56.7	55.6	55.2	53.7
1986	54.4	54.6	53.9	55.6	55.2	56.3	57.2	59.3	60.0	62.0	61.3	63.6
1987	66.6	68.2	68.2	71.8	71.9	72.5	72.2	74.1	75.4	72.5	73.8	76.9
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	^P 69.3	^P 67.9								

See footnotes at end of table.

**ESTABLISHMENT DATA
DIFFUSION INDEXES
SEASONALLY ADJUSTED**

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

(Percent)

Year	Manufacturing payrolls, 141 industries ¹											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span												
1977	66.0	59.9	68.4	70.9	67.0	59.6	60.3	54.3	62.1	57.4	63.1	70.2
1978	63.1	64.5	63.8	65.6	61.0	62.4	56.0	58.5	57.1	62.8	66.3	69.1
1979	60.3	55.0	58.9	50.4	55.7	61.7	50.0	45.0	41.1	57.4	46.8	47.9
1980	48.6	46.1	47.5	28.4	24.8	27.0	28.7	58.2	55.0	63.1	61.7	53.9
1981	53.2	45.0	55.0	63.1	61.3	56.7	56.0	42.2	39.4	30.5	29.4	23.4
1982	27.0	39.4	28.0	31.9	36.2	26.6	34.4	28.4	35.5	26.6	26.2	39.4
1983	53.2	48.6	55.3	67.0	67.4	59.9	68.8	64.9	68.1	70.9	62.4	62.1
1984	61.7	70.6	64.5	63.8	54.6	61.0	56.0	52.8	42.9	52.8	44.7	48.6
1985	46.5	40.4	44.0	37.6	41.5	39.4	47.9	48.6	37.9	44.3	44.0	50.7
1986	48.9	45.0	43.6	43.6	46.5	43.3	38.7	51.1	48.6	45.0	50.7	52.8
1987	44.3	53.9	54.3	55.7	55.3	54.3	62.8	59.9	63.8	59.9	65.6	56.4
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	P 33.3	P 55.3		
Over 3-month span												
1977	70.6	77.0	78.7	78.7	72.0	66.7	62.4	64.9	62.4	67.7	69.1	76.2
1978	77.0	72.3	72.3	69.9	69.1	62.8	61.3	58.2	62.4	67.0	70.9	73.4
1979	64.9	62.8	59.6	59.9	58.5	59.2	50.0	36.5	44.0	43.6	52.5	42.9
1980	44.7	40.4	28.4	20.2	18.4	19.5	27.7	39.7	64.2	67.7	67.4	61.3
1981	51.8	50.4	56.4	64.5	66.7	64.9	55.0	42.6	28.0	25.5	17.7	17.4
1982	17.0	19.1	21.3	22.0	22.0	22.3	18.1	18.8	20.6	16.4	17.7	33.3
1983	46.1	53.9	61.7	71.3	70.9	73.8	70.6	76.2	77.0	74.1	72.0	67.4
1984	71.6	71.6	75.2	65.6	65.2	58.9	57.1	50.7	47.5	42.9	45.7	44.7
1985	43.6	37.9	32.6	33.0	31.2	37.6	40.8	37.9	38.3	36.5	42.9	46.8
1986	45.0	40.8	38.3	38.7	39.4	37.2	37.2	44.0	46.5	47.5	52.5	49.3
1987	52.1	51.4	59.6	61.3	58.5	62.8	67.0	71.6	68.4	70.6	67.7	64.5
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	P 32.6	P 42.2			
Over 6-month span												
1977	81.6	81.9	79.1	77.3	75.2	74.8	67.7	68.4	70.9	75.2	80.5	77.7
1978	77.7	79.8	78.0	72.3	73.0	68.8	63.5	68.1	69.9	71.3	67.0	69.9
1979	68.4	66.3	62.1	58.2	52.1	43.6	48.2	41.5	39.7	40.1	42.6	42.9
1980	33.0	27.0	23.4	16.7	17.4	19.1	26.2	39.7	52.8	70.6	67.4	65.2
1981	65.2	62.8	62.8	68.1	61.7	55.3	40.1	29.1	22.3	17.0	18.4	12.4
1982	10.3	10.6	13.5	20.6	15.6	15.2	12.4	12.1	14.5	18.1	21.3	27.3
1983	46.8	59.6	64.9	67.0	75.5	76.2	78.7	77.3	76.2	73.8	75.9	74.8
1984	75.2	72.3	72.7	70.2	62.1	58.2	54.6	52.5	48.6	44.7	39.4	41.8
1985	35.5	34.8	29.4	31.9	33.3	33.0	31.9	32.6	38.3	40.1	38.3	37.6
1986	37.6	38.7	35.5	33.3	34.0	38.3	37.9	41.1	45.4	49.6	50.4	51.1
1987	57.4	56.7	55.3	62.4	64.9	67.0	67.4	70.6	71.3	69.5	69.5	68.1
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	P 39.7	P 43.3					
Over 12-month span												
1977	77.0	77.7	75.9	76.6	81.2	82.6	84.0	81.9	83.3	80.5	78.0	77.3
1978	75.2	77.7	76.2	77.0	77.0	77.0	75.2	70.6	70.9	65.6	69.1	64.9
1979	67.0	64.2	62.4	57.4	51.8	48.6	48.9	47.5	42.2	36.5	29.1	24.8
1980	20.6	22.3	23.8	25.2	23.0	22.3	21.3	22.7	23.8	30.5	45.7	59.6
1981	72.0	69.1	69.1	52.8	40.4	35.1	27.7	21.6	17.7	15.2	13.8	12.4
1982	12.1	12.4	9.2	11.3	8.2	9.9	13.5	14.2	15.2	21.6	25.5	33.7
1983	43.3	50.0	56.0	66.0	71.6	75.5	76.2	78.4	78.0	78.7	80.1	76.2
1984	77.0	72.3	68.1	66.0	62.4	61.0	57.8	54.6	50.4	44.0	40.1	33.7
1985	31.6	30.9	30.1	28.4	27.7	28.4	29.1	29.8	32.6	30.9	32.6	29.8
1986	30.9	30.1	34.8	34.8	36.2	39.0	38.3	39.7	42.9	46.1	48.6	50.0
1987	55.3	58.5	58.5	63.5	66.3	67.4	71.6	72.7	71.6	69.1	68.4	72.3
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	P 56.0	P 54.3								

¹ 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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a
Alabama	1,551.6	1,576.1	1,584.1	11.0	11.2	11.4	78.7	75.5	75.6
Birmingham	402.9	407.5	408.2	5.1	4.8	4.8	25.6	24.8	24.7
Huntsville	130.4	135.0	135.3	.1	.1	.1	5.9	6.3	6.1
Mobile	163.6	165.2	164.5	.7	.7	.7	9.8	10.4	10.1
Montgomery	128.8	128.3	128.3	.1	.1	.1	8.1	7.6	7.7
Tuscaloosa	61.1	61.9	63.4	2.3	2.6	2.6	3.2	3.1	3.2
Alaska	224.2	239.4	233.7	9.9	11.0	10.9	11.1	11.4	11.3
Arizona	1,406.4	1,403.9	1,443.3	12.2	12.1	12.1	95.0	92.4	92.2
Phoenix	926.9	925.9	947.2	.7	.9	.9	65.2	62.0	62.0
Tucson	245.8	244.3	250.9	1.8	2.1	2.1	17.0	16.7	16.3
Arkansas	872.3	886.4	898.2	4.3	4.4	4.4	35.3	36.4	36.0
Fayetteville-Springdale	51.6	51.7	52.9	(¹)	(¹)	(¹)	1.7	1.8	1.8
Fort Smith	78.1	75.4	75.6	1.0	.9	.9	2.6	2.7	2.7
Little Rock-North Little Rock	240.0	242.9	245.4	.4	.4	.4	10.7	11.0	10.9
Pine Bluff	33.5	33.9	34.2	(¹)	(¹)	(¹)	1.7	2.0	1.9
California	12,167.5	12,342.0	12,499.4	42.3	42.4	42.1	635.8	662.0	665.2
Anaheim-Santa Ana	1,137.7	1,154.1	1,163.2	1.3	1.3	1.3	69.2	71.1	70.9
Bakersfield	162.8	159.5	162.8	14.2	14.1	13.9	9.8	9.8	9.6
Fresno	210.0	209.2	216.4	.6	.6	.6	12.3	12.9	12.4
Los Angeles-Long Beach	4,114.6	4,149.2	4,190.2	9.7	10.0	10.0	151.7	157.9	159.3
Modesto	113.4	121.6	120.3	(¹)	(¹)	(¹)	7.3	8.2	8.0
Oakland	846.7	861.3	879.9	3.3	3.7	3.8	52.3	54.2	54.7
Oxnard-Ventura	215.5	222.9	223.5	2.9	2.9	2.8	14.5	15.6	15.3
Riverside-San Bernardino	625.8	629.4	640.1	1.3	1.3	1.3	55.4	56.8	56.6
Sacramento	577.7	594.1	601.4	.7	.7	.7	36.1	37.6	38.0
San Diego	924.0	949.4	965.3	.8	.8	.8	59.4	62.5	62.7
San Francisco	944.6	954.0	964.0	.9	.9	.9	37.3	37.9	38.6
San Jose	822.2	826.8	827.4	.1	.1	.1	34.6	34.5	35.0
Santa Barbara-Santa Maria-Lompoc	144.5	146.4	147.7	1.5	1.5	1.5	6.9	7.1	7.2
Santa Rosa-Petaluma	129.4	129.1	133.8	.7	.7	.7	9.3	9.8	10.1
Stockton	152.3	150.4	151.7	.1	.1	.1	8.9	9.0	9.0
Vallejo-Fairfield-Napa	131.9	136.4	137.5	.6	.7	.8	10.6	11.4	11.5
Colorado	1,429.8	1,441.3	1,451.0	20.7	21.1	21.1	61.1	62.0	60.9
Boulder-Longmont	108.9	107.4	109.8	.3	.3	.3	3.7	3.8	3.7
Denver	801.9	805.5	809.8	12.8	12.0	12.1	32.4	31.4	30.8
Connecticut	1,676.6	1,682.0	1,696.9	1.6	1.5	1.5	83.8	82.7	82.1
Bridgeport-Milford	203.6	200.1	203.4	(¹)	(¹)	(¹)	9.8	9.8	9.7
Hartford	486.5	484.9	489.1	.4	.4	.4	21.7	22.5	22.1
New Britain	66.5	64.9	66.0	(¹)	(¹)	(¹)	5.4	5.0	4.8
New Haven-Meriden	260.2	264.6	266.9	.4	.4	.4	14.6	15.7	15.5
Stamford	126.5	127.5	127.1	.5	.4	.4	5.8	6.2	6.1
Waterbury	88.0	87.2	88.1	(¹)	(¹)	(¹)	5.1	5.5	5.4
Delaware	332.3	344.5	341.9	.1	.1	.1	22.6	21.0	20.2
Wilmington	282.8	290.4	289.9	.2	.2	.2	19.4	18.5	17.9
District of Columbia	671.0	694.0	688.7	.1	.1	.1	13.2	13.4	13.6
Washington MSA	2,174.1	2,249.4	2,258.4	1.2	1.2	1.2	144.4	154.6	153.8
Florida	5,083.6	5,201.7	5,264.7	9.1	9.5	9.4	351.7	349.7	347.1
Daytona Beach	116.6	119.2	120.2	(¹)	(¹)	(¹)	8.7	8.6	8.5
Fort Lauderdale-Hollywood-Pompano Beach	480.1	487.0	492.5	.4	.3	.3	37.4	36.8	36.9
Fort Myers-Cape Coral	115.9	122.4	123.9	(¹)	(¹)	(¹)	13.0	14.0	13.8
Jacksonville	411.8	417.6	425.6	.6	.6	.7	26.9	27.3	27.6
Melbourne-Titusville-Palm Bay	153.5	158.7	160.1	(¹)	(¹)	(¹)	8.9	8.9	8.9
Miami-Hialeah	856.1	869.4	877.8	.9	.9	.9	40.7	39.2	39.2
Orlando	505.4	516.2	522.5	(¹)	(¹)	(¹)	37.9	37.0	37.3
Pensacola	125.4	125.7	127.4	.4	.4	.4	8.3	8.6	8.5
Sarasota	108.9	112.9	113.9	(¹)	(¹)	(¹)	10.0	10.3	10.4
Tallahassee	114.2	114.1	117.2	(¹)	(¹)	(¹)	5.7	5.6	5.5
Tampa-St. Petersburg-Clearwater	828.8	849.5	858.7	.7	.8	.8	57.7	56.8	56.7
West Palm Beach-Boca Raton-DeLray Beach	338.9	352.2	359.5	(¹)	(¹)	(¹)	30.9	30.2	29.9

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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
Alabama	380.1	387.7	386.5	79.1	80.0	79.6	341.4	345.3	345.9
Birmingham	57.0	57.8	58.8	32.4	32.2	31.9	99.1	101.5	101.7
Huntsville	32.7	33.8	33.7	2.9	3.1	3.1	24.8	25.6	25.6
Mobile	25.4	25.4	25.2	10.1	10.1	9.9	44.0	44.4	44.5
Montgomery	18.9	18.0	17.8	5.0	5.1	5.1	29.4	29.4	29.5
Tuscaloosa	10.1	10.1	10.2	2.0	2.0	2.0	12.8	13.0	13.2
Alaska	17.5	22.0	16.9	18.2	24.7	22.0	43.9	46.1	45.3
Arizona	191.1	189.8	189.9	71.8	73.5	73.2	343.5	356.7	360.0
Phoenix	139.2	139.7	139.7	49.9	51.3	51.1	233.1	239.4	241.1
Tucson	30.2	28.1	28.1	9.0	9.5	9.5	56.6	58.8	60.0
Arkansas	231.0	236.2	235.0	51.8	52.4	53.3	196.5	202.1	202.1
Fayetteville-Springdale	13.1	13.2	13.2	4.7	4.8	4.8	11.8	12.1	12.3
Fort Smith	27.3	25.5	25.1	4.2	4.2	4.3	15.9	15.3	15.2
Little Rock-North Little Rock	35.4	35.4	35.4	17.1	17.7	17.6	57.3	58.1	58.3
Pine Bluff	6.5	6.6	6.5	2.6	2.6	2.6	7.2	7.4	7.4
California	2,173.2	2,186.1	2,184.2	593.1	560.1	605.4	2,890.1	2,957.7	2,965.1
Anaheim-Santa Ana	259.2	258.1	258.2	34.2	30.1	34.4	281.1	292.9	292.3
Bakersfield	10.6	10.4	10.4	7.4	7.5	7.8	38.4	38.4	38.6
Fresno	23.3	22.9	23.6	11.7	10.8	11.7	53.5	53.8	54.1
Los Angeles-Long Beach	902.5	893.1	894.7	205.2	196.2	206.9	955.3	975.1	977.2
Modesto	27.2	32.9	31.1	4.7	4.8	4.8	28.9	29.9	30.1
Oakland	109.7	112.0	112.1	56.8	51.7	60.3	207.0	215.3	216.1
Oxnard-Ventura	30.6	30.9	31.5	11.2	11.5	11.5	52.9	55.5	55.4
Riverside-San Bernardino	81.9	83.0	83.3	30.7	29.9	30.5	155.0	155.7	156.5
Sacramento	43.9	45.0	44.6	25.5	23.6	23.7	139.7	142.7	143.9
San Diego	128.0	133.4	133.4	35.2	32.4	36.1	224.2	233.3	234.1
San Francisco	79.9	80.6	80.4	76.9	74.2	79.4	211.6	214.9	215.4
San Jose	277.1	280.1	278.5	21.5	19.6	22.2	160.4	160.4	160.3
Santa Barbara-Santa Maria-Lompoc	22.1	21.9	21.7	5.0	5.2	5.3	34.9	35.5	35.6
Santa Rosa-Petaluma	20.1	20.2	20.6	5.8	5.5	5.9	33.1	34.1	34.5
Stockton	26.9	26.7	25.8	9.7	9.0	9.6	35.1	34.8	35.2
Vallejo-Fairfield-Napa	13.3	13.5	13.4	4.7	4.4	4.9	31.9	33.6	33.7
Colorado	191.6	192.6	192.5	91.3	91.3	91.3	353.5	360.7	359.7
Boulder-Longmont	30.0	29.5	29.5	2.3	2.3	2.3	23.0	23.4	23.5
Denver	95.5	96.1	95.6	66.8	66.5	66.7	196.8	201.2	200.2
Connecticut	369.1	358.4	367.5	73.4	70.6	72.7	381.8	391.5	392.6
Bridgeport-Milford	57.4	53.9	54.6	8.4	8.2	8.6	46.9	46.6	46.7
Hartford	90.5	85.9	88.1	18.9	18.5	19.2	103.2	104.3	104.8
New Britain	19.4	17.2	18.0	3.1	3.2	3.2	13.6	13.9	14.0
New Haven-Meriden	47.3	46.6	47.3	17.7	18.0	18.2	60.8	62.0	62.2
Stamford	22.9	21.7	21.6	5.5	5.7	5.7	29.3	29.6	29.6
Waterbury	23.7	22.3	22.4	3.0	2.8	3.1	16.9	17.4	17.6
Delaware	69.4	72.5	72.6	14.0	12.9	13.4	73.0	76.7	75.5
Wilmington	58.7	61.9	61.4	14.9	14.5	14.8	59.3	61.2	61.2
District of Columbia	16.1	16.1	15.9	25.2	22.9	25.5	64.1	65.8	66.4
Washington MSA	86.9	86.2	86.4	107.9	105.3	114.9	426.6	442.3	440.9
Florida	538.9	541.5	543.2	260.2	262.2	262.7	1,374.7	1,429.8	1,434.9
Daytona Beach	11.7	11.8	11.8	3.6	3.7	3.8	34.7	36.1	36.0
Fort Lauderdale-Hollywood-Pompano Beach	46.2	46.5	46.6	23.0	22.9	22.9	142.1	146.0	146.2
Fort Myers-Cape Coral	5.8	6.5	6.6	5.2	5.3	5.2	33.7	36.0	36.5
Jacksonville	39.1	39.9	40.4	27.5	27.4	27.7	113.6	117.1	117.5
Melbourne-Titusville-Palm Bay	29.4	30.5	30.6	5.7	6.0	6.1	36.1	37.2	37.2
Miami-Hialeah	93.0	91.0	90.9	69.5	67.0	67.0	233.2	240.9	241.3
Orlando	57.4	56.4	56.3	25.9	26.1	26.1	130.6	134.6	134.9
Pensacola	11.0	11.3	11.3	6.6	6.7	6.8	31.9	32.3	32.2
Sarasota	8.6	8.8	8.7	3.4	3.4	3.4	31.4	33.7	33.6
Tallahassee	5.0	4.9	4.9	2.8	2.8	2.8	24.3	24.9	25.0
Tampa-St. Petersburg-Clearwater	96.1	97.3	97.3	39.2	40.3	40.2	225.8	237.1	237.0
West Palm Beach-Boca Raton-Delray Beach	35.0	34.0	34.5	12.5	13.1	13.2	88.6	96.6	97.8

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	Finance, insurance, and real estate			Services			Government		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
Alabama	70.6	71.8	71.6	288.8	296.5	297.7	301.9	308.1	315.8
Birmingham	28.7	27.9	27.8	94.2	97.2	96.8	60.8	61.3	61.7
Huntsville	3.7	3.9	3.9	30.7	32.1	31.9	29.6	30.1	30.9
Mobile	8.0	7.9	7.9	38.4	39.1	38.9	27.2	27.2	27.3
Montgomery	7.6	7.6	7.6	28.2	29.1	29.2	31.5	31.4	31.3
Tuscaloosa	2.1	2.1	2.1	9.0	9.3	9.4	19.6	19.7	20.7
Alaska	10.7	10.7	10.6	44.3	47.0	45.8	68.6	66.5	70.9
Arizona	92.2	92.4	92.3	358.2	366.6	370.4	242.4	220.4	253.2
Phoenix	73.5	73.7	73.7	241.9	244.0	247.7	123.4	114.9	131.0
Tucson	12.1	11.6	11.6	66.5	69.3	69.7	52.6	48.2	53.6
Arkansas	38.1	38.6	38.3	164.2	173.0	173.3	151.1	143.3	155.8
Fayetteville-Springdale	1.5	1.4	1.5	7.9	8.3	8.2	10.9	10.1	11.1
Fort Smith	2.7	2.6	2.6	16.7	17.1	16.5	7.7	7.1	8.3
Little Rock-North Little Rock	16.0	16.0	15.9	57.1	59.5	59.6	46.0	44.8	47.3
Pine Bluff	1.4	1.3	1.3	6.5	6.9	6.9	7.6	7.1	7.6
California	817.4	833.0	833.5	3,107.0	3,198.2	3,215.5	1,908.6	1,902.5	1,988.4
Anaheim-Santa Ana	92.8	92.1	91.7	284.7	297.5	296.2	115.2	111.0	118.2
Bakersfield	6.4	6.5	6.5	33.4	33.6	33.1	42.6	39.2	42.9
Fresno	12.1	11.9	11.9	51.7	54.2	55.3	44.8	42.1	46.8
Los Angeles-Long Beach	287.6	290.9	291.2	1,108.4	1,130.2	1,139.1	494.2	495.8	511.8
Modesto	4.4	4.3	4.3	23.2	23.6	23.7	17.7	17.9	18.3
Oakland	55.6	56.6	56.7	202.0	210.9	212.8	160.0	156.9	163.4
Oxnard-Ventura	11.4	11.4	11.4	52.2	54.6	55.0	39.8	40.5	40.6
Riverside-San Bernardino	27.9	28.4	28.6	147.6	150.3	151.8	126.0	124.0	131.5
Sacramento	36.3	37.9	38.1	126.4	133.7	133.9	169.1	172.9	178.5
San Diego	64.3	65.9	66.1	248.2	261.9	263.0	163.9	159.2	169.1
San Francisco	111.6	111.6	111.2	292.3	301.5	301.7	134.1	132.4	136.4
San Jose	32.9	33.5	33.2	209.3	215.1	213.0	86.3	83.5	85.1
Santa Barbara-Santa Maria-Lompoc	8.6	8.8	8.8	40.1	40.4	40.7	25.4	26.0	26.9
Santa Rosa-Petaluma	8.6	8.6	8.5	29.1	30.2	30.2	22.7	20.0	23.3
Stockton	8.8	8.6	8.6	31.1	30.9	31.2	31.7	31.3	32.2
Vallejo-Fairfield-Napa	4.6	4.7	4.6	28.7	30.4	30.3	37.5	37.7	38.3
Colorado	94.4	94.9	94.6	351.6	366.7	361.7	265.6	252.0	269.2
Boulder-Longmont	4.0	4.1	4.1	22.9	23.9	23.7	22.7	20.1	22.7
Denver	62.9	63.0	62.7	209.6	216.8	214.6	125.1	118.5	127.1
Connecticut	154.2	156.5	155.3	410.0	420.1	419.0	202.7	200.7	206.2
Bridgeport-Milford	12.9	13.4	13.4	48.5	50.7	50.8	19.7	17.5	19.6
Hartford	75.9	76.6	76.1	113.8	115.8	115.8	62.1	60.9	62.6
New Britain	4.3	4.7	4.7	14.1	14.7	14.7	6.6	6.2	6.6
New Haven-Meriden	16.3	17.1	17.1	71.5	74.3	74.6	31.6	30.5	31.6
Stamford	14.2	14.8	14.8	37.5	38.9	38.1	10.8	10.2	10.8
Waterbury	4.7	4.8	4.7	22.0	22.2	22.3	12.6	12.2	12.6
Delaware	29.8	33.5	33.2	76.9	80.9	80.1	46.5	46.9	46.8
Wilmington	26.4	29.1	28.9	67.7	69.5	69.8	36.2	35.5	35.7
District of Columbia	34.8	35.0	35.1	244.0	253.8	256.2	273.7	286.9	276.1
Washington MSA	128.3	134.6	133.6	707.7	744.9	743.3	571.1	580.4	584.2
Florida	366.0	377.5	377.3	1,404.1	1,472.7	1,470.0	778.9	758.8	820.1
Daytona Beach	6.4	6.2	6.2	32.9	34.2	33.9	18.6	18.6	20.0
Fort Lauderdale-Hollywood-Pompano Beach	39.5	40.0	40.1	130.8	134.4	134.6	60.7	60.1	64.9
Fort Myers-Cape Coral	8.1	8.9	8.8	32.8	34.6	34.7	17.2	17.0	18.2
Jacksonville	39.2	40.1	40.2	104.8	108.8	109.6	60.1	56.4	61.9
Melbourne-Titusville-Palm Bay	5.7	5.9	5.9	46.1	47.7	48.2	21.5	22.4	23.1
Miami-Hialeah	71.0	73.1	73.2	232.7	243.5	244.7	115.1	113.8	120.6
Orlando	33.5	34.4	34.3	161.3	173.8	172.1	58.7	53.7	61.3
Pensacola	5.6	5.6	5.6	32.4	33.0	33.1	29.2	27.8	29.5
Sarasota	8.5	8.6	8.5	33.3	34.7	34.8	13.6	13.4	14.5
Tallahassee	4.9	5.0	5.0	23.9	24.3	24.4	47.3	46.3	49.3
Tampa-St. Petersburg-Clearwater	65.9	66.5	66.2	239.7	251.4	252.1	103.7	99.3	108.4
West Palm Beach-Boca Raton-Delray Beach	28.2	28.9	29.2	100.1	107.4	109.3	43.5	41.9	45.5

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
Georgia	2,903.8	2,933.8	2,940.0	9.0	8.8	8.8	149.3	147.2	145.6
Athens	63.7	64.9	64.8	.1	.1	.1	2.5	2.5	2.5
Atlanta	1,424.2	1,443.9	1,449.4	1.5	1.4	1.4	71.0	69.5	69.3
Augusta	159.0	159.4	159.0	.5	.5	.5	10.2	10.8	10.7
Columbus	95.0	95.4	94.9	.1	.1	.1	5.2	5.3	5.2
Macon-Warner Robins	122.6	123.0	122.7	.1	.1	.1	5.3	5.2	5.0
Savannah	106.3	105.8	106.0	(¹)	(¹)	(¹)	6.5	6.6	6.6
Hawaii	473.1	493.4	488.9	(¹)	(¹)	(¹)	23.8	27.7	28.1
Honolulu	373.1	387.9	384.5	(¹)	(¹)	(¹)	18.8	21.3	21.8
Idaho	360.1	366.2	375.0	3.7	4.0	3.9	17.1	18.1	17.9
Boise City	94.3	98.4	98.8	(²)	(²)	(²)	5.4	5.0	5.0
Illinois	5,123.5	5,161.5	5,189.2	21.4	20.7	20.7	221.6	223.8	218.2
Aurora-Elgin	144.5	147.2	146.1	(¹)	(¹)	(¹)	7.6	8.6	8.5
Bloomington-Normal	60.3	60.9	63.8	(¹)	(¹)	(¹)	1.8	2.5	2.5
Champaign-Urbana-Rantoul	86.9	83.7	88.4	(¹)	(¹)	(¹)	2.8	2.8	2.8
Chicago	3,142.2	3,167.1	3,168.9	2.3	2.2	2.2	139.7	143.4	143.3
Davenport-Rock Island-Moline	156.5	157.4	158.0	(¹)	(¹)	(¹)	5.1	5.1	5.1
Decatur	51.9	52.4	52.6	(¹)	(¹)	(¹)	2.6	2.7	2.7
Joliet	99.3	98.7	99.6	(¹)	(¹)	(¹)	6.0	6.0	6.0
Kankakee	33.2	34.2	34.1	(¹)	(¹)	(¹)	1.2	1.3	1.3
Lake County	202.0	206.7	211.6	(¹)	(¹)	(¹)	10.2	12.5	12.6
Peoria	141.2	143.6	143.4	(¹)	(¹)	(¹)	6.3	6.4	6.2
Rockford	130.4	131.7	131.1	(¹)	(¹)	(¹)	4.7	4.8	4.7
Springfield	100.1	106.1	101.0	(¹)	(¹)	(¹)	3.1	3.1	3.0
Indiana	2,441.2	2,463.9	2,499.1	8.6	8.4	8.4	119.9	129.8	128.4
Anderson	49.9	49.4	50.9	(²)	(²)	(²)	1.5	1.8	1.8
Bloomington	56.2	59.0	62.5	(²)	(²)	(²)	2.5	3.7	3.6
Elkhart-Goshen	104.5	105.6	106.3	(²)	(²)	(²)	3.1	3.3	3.2
Evansville	131.1	132.9	133.8	2.2	2.2	2.2	7.8	7.9	7.6
Fort Wayne	194.4	198.1	198.5	(²)	(²)	(²)	10.0	11.0	10.8
Gary-Hammond	233.0	238.9	243.8	(²)	(²)	(²)	13.7	17.6	17.4
Indianapolis	633.8	648.9	653.4	.8	.9	.9	33.9	37.7	37.2
Lafayette-West Lafayette	66.4	62.2	68.8	(²)	(²)	(²)	3.3	4.1	4.0
Muncie	52.7	50.2	52.2	(²)	(²)	(²)	2.2	2.4	2.3
South Bend-Mishawaka	115.5	117.5	121.5	(²)	(²)	(²)	5.9	7.8	7.7
Terre Haute	54.5	54.2	57.0	.4	.3	.3	2.2	2.5	2.5
Iowa	1,172.5	1,183.3	1,201.2	2.4	2.3	2.3	43.9	44.7	44.0
Cedar Rapids	89.3	90.8	91.1	.1	.1	.1	3.6	3.2	3.2
Des Moines	214.8	220.6	221.1	(¹)	(¹)	(¹)	7.5	7.5	7.5
Dubuque	42.4	40.0	43.0	(¹)	(¹)	(¹)	1.2	1.2	1.1
Sioux City	51.8	53.2	53.5	(¹)	(¹)	(¹)	1.9	1.9	1.8
Waterloo-Cedar Falls	64.3	63.5	66.1	(¹)	(¹)	(¹)	2.4	2.8	2.8
Kansas	1,041.0	1,044.1	1,062.5	10.4	10.1	9.8	45.0	45.9	44.0
Topeka	89.5	89.4	90.3	(¹)	(¹)	(¹)	3.5	3.5	3.4
Wichita	237.2	241.2	245.7	2.1	2.1	2.0	10.8	10.3	10.2
Kentucky	1,382.8	1,396.8	1,402.7	36.1	34.7	34.9	66.2	67.0	66.2
Lexington-Fayette	192.9	197.2	198.8	.3	.2	.2	12.4	13.1	13.2
Louisville	454.5	459.9	456.7	.9	1.2	1.2	22.1	21.9	21.3
Owensboro	34.6	33.8	34.1	.7	.6	.6	2.1	2.0	2.0
Louisiana	1,506.7	1,511.0	1,520.8	57.1	57.3	57.3	87.4	91.2	91.8
Alexandria	45.5	44.9	45.4	.2	.2	.2	2.3	2.2	2.2
Baton Rouge	222.6	219.5	223.3	1.0	1.0	1.0	24.3	24.4	24.0
Houma-Thibodaux	53.5	54.2	54.0	5.9	6.1	6.1	1.7	1.8	1.8
Lafayette	86.1	86.5	86.0	11.6	11.5	11.4	3.5	3.6	3.6
Monroe	54.9	54.4	54.5	.5	.5	.5	2.4	2.4	2.5
New Orleans	515.7	520.8	518.7	15.1	14.9	14.9	22.9	23.1	22.8
Shreveport	130.5	125.7	127.4	3.2	3.2	3.3	6.7	6.2	6.1
Maine	533.0	535.4	536.3	.2	.3	.2	36.9	36.3	35.4
Lewiston-Auburn	41.0	40.7	41.6	(¹)	(¹)	(¹)	2.5	2.5	2.4
Portland	131.4	135.7	136.9	(¹)	(¹)	(¹)	9.4	9.8	9.7

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
Georgia	571.4	563.8	566.3	185.4	185.5	186.5	750.0	760.2	758.4
Athens	15.0	15.2	14.9	1.7	2.0	2.0	14.3	14.2	14.5
Atlanta	178.5	173.4	175.7	122.0	119.9	121.0	403.7	414.1	413.6
Augusta	36.4	36.1	35.8	4.5	4.4	4.3	35.0	35.0	35.0
Columbus	20.5	20.8	20.7	3.5	3.7	3.7	21.2	21.0	20.9
Macon-Warner Robins	19.6	19.0	19.3	5.3	5.3	5.3	28.5	28.2	28.0
Savannah	17.8	17.7	17.6	10.1	10.1	10.2	26.5	26.2	26.0
Hawaii	22.3	22.2	21.9	38.2	39.9	40.2	127.7	130.7	129.7
Honolulu	16.6	16.5	16.0	31.4	32.9	33.1	99.6	101.6	101.2
Idaho	60.2	62.4	64.1	19.4	19.1	19.6	88.7	92.7	93.2
Boise City	13.4	15.0	14.9	5.3	5.3	5.2	23.6	25.2	25.0
Illinois	975.8	982.1	982.0	304.0	304.5	305.5	1,263.4	1,295.5	1,293.0
Aurora-Elgin	38.2	38.7	38.4	3.1	3.0	3.0	39.0	40.3	40.3
Bloomington-Normal	6.3	8.5	8.6	2.7	2.6	2.7	13.1	13.2	13.2
Champaign-Urbana-Rantoul	8.4	8.8	9.0	2.4	2.4	2.4	20.2	19.6	20.0
Chicago	565.9	562.6	561.9	191.7	190.4	191.9	782.6	786.7	788.3
Davenport-Rock Island-Moline	32.5	33.0	32.9	8.0	8.1	8.1	42.8	43.4	43.5
Decatur	13.7	13.8	13.7	5.0	5.1	5.1	11.5	11.6	11.8
Joliet	19.2	19.5	19.3	8.4	8.2	8.2	22.9	22.9	22.9
Kankakee	5.3	5.6	5.6	1.2	1.3	1.3	8.4	8.4	8.5
Lake County	43.6	44.6	45.1	7.1	7.2	7.5	55.4	59.6	59.4
Peoria	34.1	35.7	35.9	6.9	7.0	7.1	33.9	33.8	33.9
Rockford	46.0	45.8	45.7	4.9	5.1	5.0	28.6	28.9	28.8
Springfield	3.7	3.6	3.6	4.9	5.0	5.0	22.4	24.4	22.4
Indiana	638.9	638.2	640.7	126.0	130.1	130.8	580.4	590.8	589.2
Anderson	17.5	16.6	17.7	1.5	1.5	1.5	11.4	11.8	11.8
Bloomington	10.0	10.8	10.2	1.7	1.8	1.8	12.8	12.5	13.2
Elkhart-Goshen	57.1	57.0	56.8	2.9	2.9	3.0	18.9	19.6	19.3
Evansville	31.4	31.5	31.3	6.6	6.7	6.6	34.0	35.0	34.9
Fort Wayne	52.8	53.5	52.7	12.8	13.4	13.4	48.0	49.5	49.2
Gary-Hammond	56.8	58.3	58.3	15.7	15.9	16.0	55.6	59.1	58.9
Indianapolis	106.7	107.4	108.8	39.4	41.4	41.5	163.0	168.5	167.8
Lafayette-West Lafayette	12.6	12.4	13.4	1.9	2.0	2.0	13.3	13.4	13.7
Muncie	11.1	11.0	9.0	2.4	2.3	2.4	12.8	13.2	13.4
South Bend-Mishawaka	22.3	23.3	23.5	5.3	5.5	5.5	30.4	31.1	31.2
Terre Haute	10.2	10.3	10.2	3.0	3.3	3.3	15.0	15.1	15.1
Iowa	230.2	233.7	236.7	55.5	56.4	56.2	300.2	311.1	310.7
Cedar Rapids	23.6	24.1	23.9	5.4	5.5	5.5	21.4	22.0	21.6
Des Moines	25.1	26.6	26.7	12.5	12.7	12.7	56.5	58.1	57.4
Dubuque	12.1	10.8	12.5	1.8	1.8	1.9	10.0	10.3	10.2
Sioux City	9.8	10.6	10.7	3.2	3.4	3.5	13.6	13.8	13.8
Waterloo-Cedar Falls	15.1	15.4	15.4	1.8	1.9	1.9	15.1	15.6	15.7
Kansas	181.5	185.2	183.9	64.9	65.6	66.0	259.6	260.3	260.5
Topeka	8.5	9.1	8.7	6.8	6.6	6.6	21.3	21.8	21.7
Wichita	61.6	63.9	64.1	11.0	11.7	11.8	54.8	54.9	54.6
Kentucky	277.2	282.3	277.4	74.0	75.6	75.4	330.9	335.7	334.8
Lexington-Fayette	31.8	34.4	34.7	8.3	8.4	8.4	42.7	43.4	43.4
Louisville	88.5	87.5	83.8	28.8	29.1	29.1	113.1	111.7	111.6
Owensboro	6.1	6.3	6.3	2.1	2.1	2.0	8.8	8.6	8.7
Louisiana	171.5	173.1	173.1	108.2	109.9	109.4	358.7	363.0	361.1
Alexandria	3.2	3.5	3.4	2.1	2.1	2.1	11.0	10.6	10.6
Baton Rouge	19.2	19.9	19.7	10.4	10.4	10.3	53.1	53.4	53.5
Houma-Thibodaux	4.8	4.5	4.5	6.3	6.2	6.3	13.8	14.0	13.9
Lafayette	7.0	7.1	7.2	6.2	6.0	6.0	23.4	23.6	23.7
Monroe	7.6	7.0	7.2	2.9	2.9	2.9	14.0	13.8	13.5
New Orleans	43.0	43.6	43.8	44.6	44.4	44.3	134.9	134.5	134.2
Shreveport	18.1	17.9	18.0	8.1	8.0	8.0	31.7	31.4	31.1
Maine	109.2	109.8	108.1	21.8	20.6	20.5	130.2	135.5	132.9
Lewiston-Auburn	10.4	10.0	9.9	1.5	1.3	1.4	10.2	10.7	10.9
Portland	17.3	17.1	17.2	5.4	4.7	4.6	39.4	41.8	42.2

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a
Georgia	162.6	164.5	163.3	582.3	600.7	600.2	493.6	503.0	511.0
Athens	2.0	1.9	1.9	10.3	10.2	10.2	17.8	18.8	18.6
Atlanta	104.0	106.0	104.8	342.6	356.2	356.8	200.9	203.5	206.9
Augusta	5.7	5.5	5.5	33.0	33.4	33.4	33.6	33.7	33.7
Columbus	6.5	6.5	6.6	17.4	17.4	17.2	20.5	20.7	20.6
Macon-Warner Robins	7.6	8.0	8.0	23.1	23.2	23.1	33.1	33.9	33.9
Savannah	4.7	4.6	4.4	24.8	24.6	25.0	15.9	16.1	16.3
Hawaii	35.1	35.9	35.9	133.3	138.4	138.5	92.7	98.6	94.6
Honolulu	29.6	30.0	30.1	100.2	103.8	104.1	76.9	81.8	78.2
Idaho	19.7	19.6	19.5	73.9	77.7	78.4	77.4	72.6	78.4
Boise City	7.9	7.9	8.0	21.3	22.6	22.3	17.4	17.4	18.4
Illinois	370.2	376.8	375.3	1,231.9	1,270.9	1,257.7	735.2	687.2	736.8
Aurora-Elgin	8.4	8.7	8.6	32.7	34.2	34.1	15.4	13.7	13.2
Bloomington-Normal	10.0	10.0	10.0	13.2	13.6	13.5	13.2	10.5	13.3
Champaign-Urbana-Rantoul	3.5	3.5	3.5	16.4	17.1	16.8	33.2	29.5	33.9
Chicago	271.4	275.1	273.1	824.5	850.3	846.4	364.1	356.4	361.8
Davenport-Rock Island-Moline	8.2	8.3	8.3	33.0	33.0	33.2	26.9	26.5	26.9
Decatur	2.2	2.2	2.1	11.3	11.8	11.5	5.6	5.2	5.7
Joliet	3.8	3.7	3.7	21.8	22.0	22.2	16.9	16.4	17.3
Kankakee	1.5	1.6	1.5	9.0	9.7	9.3	6.6	6.3	6.6
Lake County	7.0	7.0	7.0	47.0	46.4	47.2	31.3	29.4	32.8
Peoria	7.4	7.6	7.6	36.3	37.4	36.7	16.3	15.7	16.0
Rockford	5.2	5.5	5.4	29.2	30.5	29.8	11.8	11.1	11.7
Springfield	8.0	8.3	8.3	25.2	28.0	25.5	32.7	33.7	33.2
Indiana	120.1	126.8	125.0	483.2	501.6	503.8	364.1	338.2	372.8
Anderson	1.6	1.7	1.7	10.2	10.3	10.5	6.1	5.7	5.9
Bloomington	2.0	2.3	2.4	8.8	9.6	9.6	18.4	18.4	21.7
Elkhart-Goshen	2.7	3.0	3.0	14.2	14.5	14.8	5.8	5.3	6.1
Evansville	5.2	5.4	5.3	31.3	32.3	32.6	12.6	12.0	13.2
Fort Wayne	12.4	13.3	13.0	40.3	42.3	42.9	18.0	15.1	16.5
Gary-Hammond	8.3	8.6	8.5	51.3	52.9	53.1	31.5	26.5	31.6
Indianapolis	48.8	50.0	49.2	146.6	151.3	151.8	94.5	91.6	96.2
Lafayette-West Lafayette	3.1	3.3	3.2	11.2	12.1	12.1	21.0	14.9	20.4
Muncie	1.7	1.7	1.7	11.2	11.4	11.7	11.4	8.2	11.7
South Bend-Mishawaka	8.1	6.5	6.4	34.2	33.1	36.0	11.4	10.3	11.2
Terre Haute	2.0	2.0	2.0	11.2	11.5	11.9	10.5	9.1	11.7
Iowa	66.4	69.2	68.6	266.9	267.3	274.2	207.0	198.6	208.5
Cedar Rapids	4.8	5.1	5.0	21.0	21.5	22.3	9.4	9.3	9.6
Des Moines	29.5	31.3	31.2	54.8	56.0	58.6	28.7	28.2	28.8
Dubuque	1.4	1.5	1.5	12.5	11.4	12.4	3.3	2.9	3.3
Sioux City	2.5	2.6	2.6	14.3	14.4	14.7	6.5	6.5	6.4
Waterloo-Cedar Falls	2.9	2.9	2.9	14.7	14.2	14.7	12.2	10.6	12.6
Kansas	58.5	59.1	58.7	215.5	222.3	223.5	205.6	195.6	216.1
Topeka	6.6	6.7	6.7	21.1	20.9	20.9	21.6	20.7	22.2
Wichita	11.0	10.8	10.8	57.5	59.4	60.4	28.4	28.1	31.8
Kentucky	58.9	59.2	58.9	296.3	303.1	304.7	243.2	239.2	250.4
Lexington-Fayette	9.2	9.3	9.3	42.9	42.3	42.8	45.3	46.1	46.8
Louisville	26.9	26.5	26.2	112.8	121.0	121.1	61.4	61.0	62.4
Owensboro	1.4	1.4	1.4	8.1	8.0	8.1	5.3	4.8	5.0
Louisiana	82.1	79.5	79.6	329.6	329.2	339.6	312.1	307.8	314.9
Alexandria	2.6	2.6	2.5	11.5	11.4	11.6	12.6	12.3	12.8
Baton Rouge	13.8	13.5	13.6	46.3	46.3	46.5	54.5	50.6	54.7
Houma-Thibodaux	2.2	2.1	2.0	9.0	9.6	9.7	9.8	9.9	9.7
Lafayette	3.5	3.5	3.5	18.8	18.9	18.4	12.1	12.3	12.2
Monroe	4.4	4.2	4.2	12.0	12.1	12.2	11.1	11.5	11.5
New Orleans	33.8	32.9	32.9	138.1	138.2	140.5	83.3	89.2	85.3
Shreveport	6.5	6.0	6.0	31.6	30.7	30.8	24.6	22.3	24.1
Maine	25.3	25.8	25.5	117.8	124.7	119.8	91.6	82.4	93.9
Lewiston-Auburn	2.2	2.2	2.2	10.2	10.6	10.8	4.0	3.4	4.0
Portland	12.3	12.0	11.9	31.6	35.4	35.0	16.0	14.8	16.2

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a
Maryland	2,110.8	2,117.7	2,134.1	1.8	1.7	1.7	168.2	167.1	167.8
Baltimore MSA	1,124.2	1,123.8	1,131.2	.3	.3	.3	78.8	79.4	79.1
Baltimore City	471.7	470.4	476.1	(¹)	(¹)	(¹)	20.6	20.6	20.4
Suburban Maryland-D.C.	754.1	757.3	770.1	.5	.5	.5	69.5	69.6	69.0
Massachusetts	3,126.0	3,118.2	3,118.8	1.8	1.4	1.4	152.1	148.0	141.4
Boston	1,754.2	1,734.8	1,746.6	1.0	1.1	1.1	77.0	76.7	73.7
Brockton	74.6	74.8	75.7	(¹)	(¹)	(¹)	4.5	4.8	4.7
Fall River	56.6	55.7	56.2	(¹)	(¹)	(¹)	3.5	3.8	3.8
Fitchburg-Leominster	41.5	40.9	41.5	(¹)	(¹)	(¹)	2.8	2.8	2.8
Lawrence-Haverhill	166.2	165.1	166.8	(¹)	(¹)	(¹)	8.3	8.2	8.0
Lowell	109.2	109.1	109.6	.2	.1	.1	6.2	6.6	6.5
New Bedford	69.1	68.9	69.0	(¹)	(¹)	(¹)	3.7	4.2	4.1
Pittsfield	42.7	44.1	43.3	.1	.1	.1	2.9	3.1	2.9
Springfield	241.4	239.2	241.4	.1	.1	.1	10.9	11.3	10.9
Worcester	208.1	211.7	214.1	.1	.1	.1	11.4	11.3	11.0
Michigan	3,812.1	3,839.6	3,876.0	10.8	11.0	10.5	147.9	148.4	148.4
Ann Arbor	172.2	167.4	173.9	(¹)	(¹)	(¹)	7.0	6.5	6.0
Battle Creek	58.9	59.3	60.0	(¹)	(¹)	(¹)	2.0	2.3	2.3
Benton Harbor	65.8	66.9	66.5	(¹)	(¹)	(¹)	1.7	1.7	1.7
Detroit	1,903.2	1,934.6	1,948.3	.8	.8	.8	70.0	70.8	70.5
Flint	163.6	169.4	172.1	(¹)	(¹)	(¹)	5.7	5.9	6.0
Grand Rapids	334.9	339.8	345.2	(¹)	(¹)	(¹)	18.1	18.5	18.3
Jackson	53.5	55.0	54.7	(¹)	(¹)	(¹)	1.7	1.8	1.8
Kalamazoo	109.6	108.3	112.8	(¹)	(¹)	(¹)	3.8	4.0	4.0
Lansing-East Lansing	209.1	209.0	210.3	(¹)	(¹)	(¹)	7.5	7.0	7.1
Muskegon	58.3	58.6	58.3	(¹)	(¹)	(¹)	2.6	2.8	2.7
Saginaw-Bay City-Midland	157.9	160.2	162.7	(¹)	(¹)	(¹)	8.3	8.3	8.5
Minnesota	2,050.8	2,091.9	2,106.8	7.5	7.8	7.9	90.1	91.9	91.2
Duluth	92.8	92.0	93.5	4.9	5.2	5.2	3.8	3.9	3.8
Minneapolis-St. Paul	1,334.2	1,363.7	1,372.6	(¹)	(¹)	(¹)	59.4	60.6	60.2
Rochester	61.3	62.8	63.8	(²)	(²)	(²)	2.3	2.4	2.5
St. Cloud	72.7	72.6	75.0	(²)	(²)	(²)	4.0	4.4	4.3
Mississippi	905.4	903.0	922.2	6.3	5.8	5.9	37.9	35.3	36.1
Jackson	182.4	184.1	186.8	.9	.8	.9	8.8	8.5	8.4
Missouri	2,261.8	2,264.3	2,290.7	5.4	5.4	5.3	100.2	98.7	96.9
Kansas City	760.5	768.4	775.6	.6	.5	.5	34.6	35.1	34.4
St. Louis	1,150.1	1,155.5	1,165.8	3.3	3.2	3.3	57.8	57.6	56.3
Springfield	114.5	113.3	115.8	.1	.1	.1	4.9	4.8	4.7
Montana	285.1	283.1	286.7	6.4	6.5	6.4	9.9	10.4	10.4
Nebraska	693.6	710.8	715.5	1.6	2.0	1.9	26.0	28.5	27.7
Lincoln	119.4	120.7	122.9	(¹)	(¹)	(¹)	4.4	4.1	4.1
Omaha	310.6	321.0	320.8	.2	.2	.2	12.5	13.0	12.8
Nevada	552.4	579.1	584.6	11.7	13.4	13.3	40.0	45.6	45.5
Las Vegas	314.1	330.9	336.3	.2	.2	.2	24.5	28.9	28.7
Reno	141.4	145.2	145.6	1.4	1.5	1.5	8.5	9.1	9.1
New Hampshire	538.0	534.6	535.7	.7	.7	.7	39.1	36.2	34.5
Manchester	86.6	85.4	85.4	(²)	(²)	(²)	6.6	6.6	6.4
Nashua	96.4	93.1	94.2	.1	.1	.1	4.9	4.4	4.3
Portsmouth-Dover-Rochester	115.1	114.4	113.7	.2	.1	.1	6.5	5.9	5.5
New Jersey	3,662.9	3,705.6	3,690.6	2.4	2.5	2.5	183.6	186.5	183.2
Atlantic City	179.4	191.7	181.8	(¹)	(¹)	(¹)	10.3	12.3	12.2
Bergen-Passaic	673.8	683.4	686.2	.1	.2	.2	34.1	35.7	35.5
Camden	435.5	443.5	443.5	.1	.1	.1	26.0	26.5	26.1
Jersey City	248.6	249.9	251.5	(¹)	(¹)	(¹)	7.4	7.9	7.9
Middlesex-Somerset-Hunterdon	529.6	544.8	542.5	.7	.7	.7	25.3	26.0	26.2
Monmouth-Ocean	332.4	350.2	340.7	(¹)	(¹)	(¹)	21.6	24.2	24.1
Newark	953.6	959.9	964.5	.7	.7	.6	41.1	42.9	42.6
Trenton	198.1	196.6	198.9	(¹)	(¹)	(¹)	5.8	6.5	6.4
Vineland-Millville-Bridgeton	57.9	59.1	59.3	.4	.4	.4	2.5	2.4	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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^p	Sept. 1988	Aug. 1989	Sept. 1989 ^p	Sept. 1988	Aug. 1989	Sept. 1989 ^p
Maryland	210.9	206.9	205.9	97.3	87.1	96.2	534.0	546.1	542.0
Baltimore MSA	134.0	129.9	130.1	55.5	50.9	56.4	276.1	278.9	278.8
Baltimore City	45.7	45.4	45.7	27.8	25.6	28.1	96.5	96.1	96.0
Suburban Maryland-D.C.	35.7	36.2	36.6	28.4	24.3	28.6	199.1	205.0	204.3
Massachusetts	583.8	563.8	563.1	135.6	121.9	125.1	735.6	738.8	736.7
Boston	271.3	261.5	261.2	77.5	69.8	71.1	387.4	380.8	382.7
Brockton	10.8	10.5	10.7	5.2	4.4	4.6	22.5	23.3	23.5
Fall River	15.5	14.5	14.7	2.0	1.6	1.6	14.7	14.7	14.6
Fitchburg-Leominster	12.0	12.0	12.1	1.7	1.3	1.4	10.3	10.1	10.3
Lawrence-Haverhill	50.2	46.8	47.0	7.1	6.4	6.8	37.2	38.7	38.6
Lowell	36.4	35.2	34.9	4.9	5.4	5.6	23.5	23.8	23.8
New Bedford	18.8	17.6	17.6	3.0	2.6	2.8	16.6	16.8	16.8
Pittsfield	10.8	10.9	10.9	1.2	1.0	1.1	9.9	10.6	10.5
Springfield	50.8	49.3	48.8	10.0	9.3	9.9	58.1	58.6	59.5
Worcester	45.0	45.9	46.0	9.6	8.7	8.9	50.2	51.4	51.7
Michigan	952.0	938.2	948.6	154.9	156.6	156.9	897.7	924.5	923.3
Ann Arbor	38.0	33.7	34.0	4.4	4.0	4.0	31.9	33.8	34.8
Battle Creek	15.7	15.7	15.6	1.9	1.8	1.8	12.1	12.5	12.5
Benton Harbor	22.3	22.1	21.7	2.4	2.4	2.5	14.1	15.3	14.9
Detroit	460.9	463.6	469.8	88.2	88.1	88.5	447.3	466.0	464.0
Flint	48.8	49.2	51.3	4.1	4.1	4.2	43.9	46.2	46.6
Grand Rapids	99.9	100.5	100.9	11.8	12.2	12.3	87.6	91.0	92.0
Jackson	13.6	13.8	13.9	4.2	4.2	4.2	12.0	12.6	12.6
Kalamazoo	30.4	30.0	30.2	3.2	3.4	3.4	24.6	26.4	26.6
Lansing-East Lansing	33.8	31.7	31.1	5.4	5.5	5.6	44.8	47.3	47.5
Muskegon	17.3	16.1	16.1	1.9	2.4	2.4	13.7	14.1	14.0
Saginaw-Bay City-Midland	44.0	43.5	43.9	6.9	7.0	7.0	37.1	37.7	37.5
Minnesota	402.5	408.4	405.2	104.3	105.3	108.2	516.3	530.5	528.4
Duluth	8.0	8.0	8.1	5.8	6.1	6.0	23.1	23.4	23.4
Minneapolis-St. Paul	267.4	269.8	267.3	71.6	73.2	74.3	333.6	341.8	340.6
Rochester	11.2	12.0	12.0	1.8	1.8	1.9	12.6	13.0	13.0
St. Cloud	13.6	14.0	14.1	3.7	3.9	3.8	21.4	22.8	22.7
Mississippi	239.9	243.1	243.3	44.6	44.9	45.2	192.6	197.9	197.9
Jackson	21.0	21.1	21.1	13.4	13.4	13.4	42.9	44.2	44.2
Missouri	432.6	435.6	432.2	147.6	148.2	150.0	559.2	563.4	560.8
Kansas City	110.9	111.2	111.0	62.1	62.5	63.7	199.9	199.5	200.0
St. Louis	225.7	227.4	226.8	74.4	74.3	75.2	277.5	283.8	280.9
Springfield	22.0	21.0	21.1	7.1	7.4	7.4	32.0	32.3	32.6
Montana	21.6	21.9	22.0	19.6	19.6	19.6	74.0	76.0	75.0
Nebraska	96.3	99.9	99.5	45.5	47.8	48.1	178.6	183.8	182.5
Lincoln	14.8	15.1	15.3	6.4	6.8	6.9	27.1	27.4	27.4
Omaha	35.7	36.2	36.3	24.2	26.0	26.4	78.1	79.7	78.8
Nevada	25.4	26.3	26.4	29.5	30.4	30.5	111.6	118.7	118.9
Las Vegas	9.8	10.4	10.5	16.6	17.5	17.6	64.7	69.2	69.8
Reno	8.6	9.0	9.0	9.4	9.2	9.2	32.7	34.1	33.9
New Hampshire	119.3	116.8	116.3	18.4	17.7	16.7	137.2	141.2	139.0
Manchester	12.0	11.2	11.2	5.3	5.6	4.5	23.8	23.0	23.2
Nashua	36.4	35.6	35.2	2.7	2.8	2.6	22.5	21.5	21.6
Portsmouth-Dover-Rochester	20.9	20.4	20.2	3.2	3.3	2.9	30.1	32.1	30.5
New Jersey	669.5	660.4	663.6	245.7	232.4	245.4	875.5	887.9	879.9
Atlantic City	8.6	8.5	8.6	6.7	6.1	6.4	43.1	49.8	43.4
Bergen-Passaic	158.6	155.3	156.2	28.1	26.2	28.2	191.1	193.0	193.6
Camden	73.5	73.4	73.4	19.6	18.8	20.0	116.7	118.3	118.4
Jersey City	45.9	45.9	45.9	33.9	33.3	34.1	62.3	62.7	63.1
Middlesex-Somerset-Hunterdon	116.0	116.7	115.9	43.5	44.0	45.4	126.1	128.7	128.9
Monmouth-Ocean	29.4	29.5	29.6	18.1	17.7	19.2	90.4	94.6	89.3
Newark	175.7	169.2	172.4	79.2	74.5	78.3	194.9	196.5	197.0
Trenton	31.9	30.3	30.7	6.6	6.1	6.7	31.6	32.6	32.6
Vineland-Millville-Bridgeton	15.8	15.7	15.8	2.3	2.2	2.3	11.5	12.8	12.5

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	Finance, insurance, and real estate			Services			Government		
	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a
Maryland	131.2	134.3	133.7	571.4	587.4	583.4	396.0	387.1	403.4
Baltimore MSA	78.1	79.1	78.8	299.2	305.0	305.3	202.2	200.3	202.4
Baltimore City	46.2	46.1	46.1	144.5	146.9	148.4	90.4	89.7	91.4
Suburban Maryland-D.C.	44.1	46.4	45.9	219.9	225.6	223.5	156.9	149.7	161.7
Massachusetts	227.3	238.8	234.7	892.7	919.8	920.4	397.1	385.7	396.0
Boston	155.9	161.6	160.3	579.2	589.7	594.6	204.9	193.6	201.9
Brockton	3.3	3.5	3.4	16.1	16.5	16.4	12.2	11.8	12.4
Fall River	3.3	3.7	3.6	10.8	11.1	11.1	6.8	6.3	6.8
Fitchburg-Leominster	1.7	1.7	1.7	8.4	8.7	8.6	4.6	4.3	4.6
Lawrence-Haverhill	6.7	7.2	7.1	35.6	38.4	38.2	21.1	19.4	21.1
Lowell	4.0	4.1	4.0	21.0	21.5	21.6	13.0	12.4	13.1
New Bedford	2.6	2.6	2.6	14.2	14.9	14.7	10.2	10.2	10.4
Pittsfield	2.1	2.1	2.1	11.1	11.8	11.2	4.6	4.5	4.5
Springfield	15.8	16.0	15.7	58.9	59.7	60.3	36.8	34.9	36.2
Worcester	14.8	16.4	16.0	52.8	55.0	56.1	24.2	22.9	24.3
Michigan	185.1	190.6	189.2	861.8	891.1	891.3	601.9	579.3	607.8
Ann Arbor	4.7	5.0	4.9	36.4	39.1	39.6	49.6	45.3	50.5
Battle Creek	3.4	3.6	3.6	12.0	12.1	12.2	11.7	11.3	12.0
Benton Harbor	2.6	2.5	2.5	14.2	14.4	14.4	8.4	8.3	8.7
Detroit	109.2	110.7	110.0	484.5	500.6	499.3	242.2	233.8	245.3
Flint	5.9	6.1	6.1	31.9	33.7	33.7	23.3	24.1	24.2
Grand Rapids	15.3	16.0	15.9	69.8	70.8	72.7	32.3	30.5	32.8
Jackson	2.0	2.0	2.1	9.9	10.3	10.4	9.8	9.9	9.6
Kalamazoo	5.0	5.1	5.1	24.4	25.1	25.1	18.1	14.4	18.4
Lansing-East Lansing	12.6	13.1	13.0	40.3	42.4	42.6	64.1	61.6	62.9
Muskegon	1.4	1.4	1.4	12.2	12.6	12.5	9.0	9.2	9.1
Saginaw-Bay City-Midland	6.3	6.5	6.4	34.2	37.1	37.3	21.0	19.9	21.8
Minnesota	119.8	123.3	123.3	502.3	522.6	527.0	308.0	302.1	315.6
Duluth	3.1	3.2	3.2	22.7	23.0	22.9	21.3	19.2	20.9
Minneapolis-St. Paul	93.4	96.6	96.7	341.4	353.7	358.4	166.8	167.4	174.5
Rochester	1.5	1.6	1.6	25.8	26.7	26.6	6.1	5.3	6.2
St. Cloud	2.3	2.3	2.2	15.8	15.4	16.5	11.9	9.8	11.4
Mississippi	39.1	39.5	39.4	146.7	149.1	152.0	198.3	187.3	202.4
Jackson	14.6	15.0	14.9	40.9	43.0	42.5	39.9	38.1	41.4
Missouri	135.9	138.0	137.0	530.4	543.8	542.6	350.5	331.2	365.9
Kansas City	58.1	58.7	58.4	181.1	188.8	189.7	113.2	112.1	117.9
St. Louis	75.4	76.3	75.4	295.2	302.9	303.7	140.8	130.0	144.2
Springfield	5.1	5.3	5.3	28.7	29.3	29.8	14.6	13.1	14.8
Montana	13.4	13.7	13.5	68.5	70.5	69.2	71.7	64.5	70.6
Nebraska	48.2	49.2	49.1	160.0	167.1	167.4	137.4	132.5	139.3
Lincoln	8.4	8.4	8.2	27.3	28.6	29.5	31.0	30.3	31.5
Omaha	28.9	30.1	29.8	85.0	91.1	91.0	46.0	44.7	45.5
Nevada	25.1	26.8	26.8	241.3	251.5	251.4	67.8	66.4	71.8
Las Vegas	15.6	16.9	17.0	148.4	154.8	155.8	34.3	33.0	36.7
Reno	7.0	7.2	7.2	56.9	58.8	58.5	16.9	16.3	17.2
New Hampshire	32.4	33.8	33.2	120.9	125.4	124.3	70.0	62.8	71.0
Manchester	8.2	8.5	8.5	22.1	22.2	22.7	8.6	8.3	8.9
Nashua	3.7	3.6	3.6	19.3	19.3	19.6	6.8	5.8	7.2
Portsmouth-Dover-Rochester	7.1	7.2	7.2	22.2	22.9	22.3	24.9	22.5	25.0
New Jersey	237.1	246.5	242.4	910.1	945.6	931.1	539.0	543.8	542.5
Atlantic City	7.8	7.9	7.8	77.8	81.5	77.8	25.0	25.5	25.5
Bergen-Passaic	39.4	42.3	41.6	155.3	162.9	162.9	67.1	67.8	68.0
Camden	24.9	26.5	26.2	105.4	109.2	107.7	69.3	70.7	71.8
Jersey City	13.4	14.0	13.9	44.5	43.5	44.9	41.2	42.6	41.7
Middlesex-Somerset-Hunterdon	38.7	39.2	38.9	110.6	117.5	115.3	68.7	72.0	71.2
Monmouth-Ocean	18.8	19.5	19.2	93.9	101.8	97.1	60.1	62.8	62.1
Newark	78.8	81.6	80.9	250.2	258.6	257.7	133.0	135.9	135.0
Trenton	9.6	10.3	10.2	56.8	57.0	57.7	55.8	53.8	54.6
Vineland-Millville-Bridgeton	3.4	3.5	3.5	10.6	10.8	11.0	11.4	11.3	11.4

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	Total			Mining			Construction		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
New Mexico	546.5	554.4	561.6	15.4	15.8	15.9	30.8	31.2	30.4
Albuquerque	238.8	240.7	243.2	.1	.1	.1	15.3	15.1	15.0
Las Cruces	40.5	41.0	42.7	.1	.1	.1	2.2	2.4	2.3
Santa Fe	55.5	57.6	56.7	.1	.1	.1	2.8	2.7	2.6
New York	8,212.1	8,237.4	8,236.3	6.4	6.1	6.0	364.9	374.5	373.2
Albany-Schenectady-Troy	415.2	426.4	427.0	.6	.5	.5	22.4	23.5	23.1
Binghamton	124.2	121.5	123.0	(¹)	(¹)	(¹)	6.2	6.3	6.3
Buffalo	451.5	450.7	455.8	.3	.2	.2	19.4	19.5	19.2
Elmira	40.1	41.5	41.1	(¹)	(¹)	(¹)	1.8	2.1	2.0
Nassau-Suffolk	1,141.7	1,140.7	1,139.3	.2	.2	.2	63.2	63.2	62.8
New York PMSA	4,129.8	4,115.5	4,118.9	1.0	.9	.9	159.0	160.5	161.9
New York City	3,597.6	3,582.1	3,589.4	.5	.4	.4	125.0	126.0	127.4
Niagara Falls	83.7	84.2	84.9	(¹)	(¹)	(¹)	3.7	3.9	3.9
Orange County	105.5	106.9	106.0	(¹)	(¹)	(¹)	6.0	6.4	6.3
Poughkeepsie	120.7	120.5	120.5	(²)	(²)	(²)	7.5	8.4	8.3
Rochester	482.7	487.0	487.8	.9	.8	.7	20.8	22.2	21.8
Rockland County	99.5	100.9	99.9	(²)	(²)	(²)	4.9	5.0	4.9
Syracuse	306.9	305.8	309.1	.2	.2	.2	15.9	17.2	17.0
Utica-Rome	127.3	127.1	127.5	.2	.2	.2	4.7	4.9	4.7
Westchester County	414.1	413.4	410.9	.2	.2	.2	27.4	27.8	27.9
North Carolina	2,992.5	3,005.7	3,051.1	4.9	5.0	5.0	169.1	165.0	163.1
Asheville	81.4	83.4	83.0	.1	.1	.1	4.4	4.7	4.5
Charlotte-Gastonia-Rock Hill	595.8	607.5	610.8	.4	.4	.4	37.2	37.7	37.4
Greensboro-Winston-Salem-High Point	483.0	472.5	482.5	.3	.3	.3	25.0	24.2	23.9
Raleigh-Durham	397.7	400.5	404.9	.4	.3	.3	22.5	22.0	21.6
North Dakota	260.4	259.2	263.6	4.3	4.1	4.1	12.1	12.3	12.1
Bismarck	38.3	39.4	39.7	.2	.2	.2	1.7	1.8	1.8
Fargo-Moorhead	72.9	73.2	75.3	(¹)	(¹)	(¹)	3.9	4.2	4.0
Grand Forks	30.1	29.8	30.7	(¹)	(¹)	(¹)	1.6	1.7	1.6
Ohio	4,731.7	4,807.2	4,848.5	19.8	20.1	20.1	202.0	218.0	217.2
Akron	276.8	278.9	286.5	.7	.7	.8	10.9	11.7	11.7
Canton	160.9	165.1	166.4	.9	1.0	1.0	6.8	7.5	7.5
Cincinnati	711.9	736.7	745.1	.5	.5	.5	33.9	37.2	37.3
Cleveland	911.4	931.6	935.7	1.0	1.1	1.1	30.1	31.3	31.2
Columbus	683.6	701.2	706.6	1.0	1.0	1.0	31.2	34.3	34.2
Dayton-Springfield	442.8	448.2	456.6	.4	.5	.5	19.7	22.0	21.9
Toledo	289.5	291.5	298.7	.3	.3	.3	11.7	13.5	13.6
Youngstown-Warren	197.6	198.9	201.6	.8	.7	.7	8.5	9.7	9.7
Oklahoma	1,141.1	1,131.4	1,143.5	44.5	44.4	43.7	34.9	35.5	35.0
Enid	21.4	21.3	21.2	1.1	1.1	1.0	.7	.8	.7
Lawton	33.2	34.0	34.1	.3	.3	.3	1.1	1.1	1.1
Oklahoma City	412.5	403.4	407.8	11.8	10.3	10.2	12.2	11.5	11.5
Tulsa	299.8	302.7	304.7	14.2	14.7	14.8	10.0	9.0	8.9
Oregon	1,174.2	1,202.7	1,215.1	1.4	1.7	1.7	42.9	47.0	47.2
Eugene-Springfield	110.3	112.0	114.6	.2	.2	.2	4.0	4.6	4.6
Portland	586.2	603.7	609.6	.5	.5	.5	22.6	25.0	25.3
Salem	105.5	108.6	107.9	.1	.1	.1	3.9	4.3	4.3
Pennsylvania	5,072.1	5,084.7	5,121.3	29.4	28.1	28.3	249.8	261.9	258.1
Allentown-Bethlehem	280.4	281.2	283.6	.6	.6	.6	14.5	14.8	14.4
Altoona	52.6	52.6	53.1	(²)	(²)	(²)	2.4	2.4	2.4
Beaver County	49.5	48.6	49.4	(²)	(²)	(²)	1.9	1.5	1.5
Erie	115.2	117.1	117.4	.2	.2	.2	3.9	4.3	4.1
Harrisburg-Lebanon-Carlisle	301.3	307.6	308.0	.3	.3	.3	13.9	14.6	14.5
Johnstown	79.9	81.1	80.0	3.1	3.1	3.1	3.0	3.1	3.0
Lancaster	185.8	188.1	188.6	.4	.4	.4	11.8	12.6	12.2
Philadelphia PMSA	2,169.3	2,168.1	2,167.7	1.1	.9	1.0	109.7	111.4	109.2
Philadelphia City	777.1	772.5	779.5	(²)	(²)	(²)	17.9	18.1	18.1
Pittsburgh	875.4	882.5	890.9	4.8	4.4	4.4	42.5	42.9	42.6

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
New Mexico	40.9	42.5	42.6	28.9	27.8	28.9	132.9	137.0	136.7
Albuquerque	20.4	20.9	20.8	12.7	12.7	13.2	61.1	62.5	62.4
Las Cruces	4.1	3.9	3.9	1.4	1.2	1.3	8.8	9.2	9.3
Santa Fe	1.6	1.7	1.7	1.2	1.0	1.1	10.9	11.6	11.3
New York	1,215.8	1,192.6	1,193.2	414.6	370.9	379.5	1,730.9	1,738.2	1,737.8
Albany-Schenectady-Troy	47.1	47.3	47.2	16.5	14.9	15.2	89.4	93.4	94.1
Binghamton	38.5	36.7	36.2	4.4	4.2	4.1	26.5	26.8	27.2
Buffalo	78.4	76.4	77.5	21.7	19.6	20.0	110.7	114.2	114.8
Elmira	8.7	9.2	9.0	1.4	1.1	1.1	10.6	10.8	10.6
Nassau-Suffolk	167.4	162.1	161.6	49.4	40.9	43.6	309.4	311.7	310.2
New York PMSA	451.4	439.1	441.8	245.5	216.3	219.9	761.3	755.9	761.1
New York City	369.1	358.7	361.9	219.7	194.1	197.1	635.9	630.8	635.6
Niagara Falls	24.2	23.2	23.7	4.1	3.9	4.0	19.5	19.9	19.9
Orange County	15.5	15.0	15.0	6.2	5.8	6.0	28.4	29.2	28.5
Poughkeepsie	30.4	30.8	30.3	3.5	3.3	3.3	22.3	22.5	22.4
Rochester	137.5	139.2	136.1	14.7	14.5	14.9	102.1	104.4	104.2
Rockland County	15.5	15.3	15.3	4.7	3.9	4.2	23.4	24.4	24.2
Syracuse	54.0	53.5	53.5	18.5	17.9	18.0	73.5	73.9	74.2
Utica-Rome	25.1	24.9	24.4	4.3	3.6	3.7	27.4	27.7	27.5
Westchester County	65.1	63.3	62.9	20.4	17.7	18.0	97.6	96.1	96.8
North Carolina	869.2	869.4	872.1	147.7	151.6	151.8	685.3	699.8	701.0
Asheville	19.2	19.3	19.3	3.8	4.0	4.0	19.8	20.0	20.0
Charlotte-Gastonia-Rock Hill	155.1	156.2	156.1	48.8	48.6	48.5	145.7	150.6	150.5
Greensboro-Winston-Salem-High Point	153.2	149.4	148.3	26.6	26.7	26.5	110.8	111.2	111.9
Raleigh-Durham	59.4	62.9	62.9	17.7	17.3	17.3	84.1	84.5	84.9
North Dakota	16.9	16.4	16.6	17.1	17.2	17.4	69.3	69.9	69.9
Bismarck	2.2	2.3	2.2	2.7	2.7	2.7	10.0	10.5	10.5
Fargo-Moorhead	5.2	5.3	5.4	4.8	4.9	5.0	21.6	21.9	22.1
Grand Forks	1.7	1.3	1.6	1.6	1.6	1.7	8.8	8.9	9.1
Ohio	1,110.5	1,109.4	1,112.9	214.8	217.0	217.3	1,144.7	1,182.4	1,183.8
Akron	65.4	66.0	66.0	13.1	13.5	13.5	68.6	71.5	71.9
Canton	45.1	45.5	45.7	5.9	6.2	6.2	40.2	41.8	42.0
Cincinnati	145.8	148.5	149.4	39.1	41.1	41.9	181.8	191.0	191.5
Cleveland	202.8	203.5	204.4	41.8	41.9	41.9	221.8	228.3	228.1
Columbus	103.9	103.4	104.2	30.3	31.2	31.4	175.4	182.2	183.0
Dayton-Springfield	105.4	104.2	104.6	17.1	17.7	17.9	100.6	103.6	103.9
Toledo	63.6	61.6	61.4	13.4	13.7	13.6	71.0	74.5	74.7
Youngstown-Warren	51.8	48.9	49.4	7.7	7.9	7.8	50.6	52.7	52.8
Oklahoma	164.9	165.1	163.7	62.2	63.1	63.0	276.4	276.2	275.4
Enid	1.6	1.6	1.5	2.2	2.1	2.1	6.2	6.0	6.0
Lawton	3.6	3.7	3.8	1.3	1.4	1.3	8.4	8.5	8.3
Oklahoma City	49.2	49.7	49.2	19.5	20.1	20.2	102.3	101.2	101.1
Tulsa	49.7	49.7	50.2	23.3	24.6	24.4	70.6	71.2	71.3
Oregon	222.4	229.5	227.4	61.5	63.8	64.7	299.3	312.4	313.2
Eugene-Springfield	21.1	21.2	21.3	4.4	4.5	4.5	27.7	28.5	29.0
Portland	100.5	103.0	103.1	36.0	37.3	37.5	154.5	162.7	161.5
Salem	19.1	20.4	18.8	3.0	2.9	3.0	23.3	23.6	24.1
Pennsylvania	1,060.2	1,055.5	1,050.9	254.2	233.4	253.8	1,156.9	1,157.5	1,156.0
Allentown-Bethlehem	78.0	76.8	76.3	14.5	13.3	14.1	61.1	61.6	61.6
Altoona	11.1	10.9	10.8	4.6	4.3	4.6	13.8	14.0	14.2
Beaver County	9.7	9.4	9.4	5.0	4.7	4.9	11.7	11.5	11.6
Erie	35.8	35.6	35.8	3.7	3.5	3.5	25.7	27.4	27.1
Harrisburg-Lebanon-Carlisle	52.3	51.3	51.5	18.4	18.1	19.3	67.4	68.4	68.0
Johnstown	13.5	13.9	12.7	5.2	4.8	5.2	17.5	18.3	18.1
Lancaster	59.8	59.3	58.6	7.4	7.2	7.6	44.9	46.8	46.2
Philadelphia PMSA	367.4	364.4	363.5	100.9	93.4	103.9	500.8	503.3	501.2
Philadelphia City	93.8	91.2	91.4	44.0	38.0	42.0	152.5	153.8	155.4
Pittsburgh	124.7	127.6	127.3	47.4	44.3	48.1	224.7	229.0	227.8

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	Finance, insurance, and real estate			Services			Government		
	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a
New Mexico	27.2	27.8	27.6	129.2	135.8	134.1	141.2	136.5	145.4
Albuquerque	15.0	15.4	15.4	66.4	67.5	67.5	47.8	46.5	48.8
Las Cruces	1.7	1.8	1.8	6.4	6.8	7.0	15.8	15.6	17.0
Santa Fe	1.9	2.0	1.9	15.0	15.8	15.1	22.0	22.7	22.9
New York	797.5	808.9	803.2	2,285.5	2,344.4	2,342.2	1,396.5	1,401.9	1,401.2
Albany-Schenectady-Troy	24.3	25.7	25.3	105.0	110.2	107.9	109.8	110.8	113.6
Binghamton	4.3	4.5	4.4	23.3	24.2	24.2	20.9	18.9	20.4
Buffalo	28.0	29.5	29.3	117.4	118.6	120.1	75.4	72.7	74.7
Elmira	1.4	1.4	1.4	9.9	10.2	10.0	6.3	6.7	6.9
Nassau-Suffolk	79.1	80.8	80.0	298.6	309.5	305.7	174.4	172.3	175.1
New York PMSA	575.6	574.0	570.4	1,277.1	1,293.4	1,298.1	658.8	675.3	664.6
New York City	540.6	537.9	534.8	1,127.0	1,139.5	1,146.3	579.7	594.8	586.0
Niagara Falls	2.0	2.1	2.1	17.5	18.1	18.4	12.5	13.0	12.7
Orange County	4.6	4.7	4.6	22.5	23.5	23.1	22.3	22.2	22.4
Poughkeepsie	4.9	5.2	5.1	28.3	28.0	28.2	23.7	22.3	22.8
Rochester	23.0	23.4	23.0	120.0	120.0	122.5	63.6	62.5	64.5
Rockland County	5.3	5.5	5.4	25.3	26.7	25.6	20.5	20.1	20.3
Syracuse	20.2	20.6	20.4	75.1	72.7	76.4	49.5	49.7	49.5
Utica-Rome	7.2	7.7	7.6	28.0	28.4	28.8	30.3	29.8	30.6
Westchester County	29.0	29.9	29.6	119.6	121.9	121.2	54.8	56.5	54.3
North Carolina	131.6	134.6	134.1	530.9	556.5	556.4	453.8	423.8	467.6
Asheville	2.7	2.7	2.6	19.7	21.7	20.7	11.7	10.9	11.8
Charlotte-Gastonia-Rock Hill	37.2	38.1	37.8	107.5	113.4	112.6	63.9	62.5	67.5
Greensboro-Winston-Salem-High Point	24.4	25.0	25.1	90.2	91.0	91.8	52.5	44.7	54.7
Raleigh-Durham	23.4	23.3	23.3	100.4	102.2	103.2	89.8	88.0	91.4
North Dakota	12.3	12.2	12.2	64.5	65.9	66.5	63.9	61.2	64.8
Bismarck	1.6	1.6	1.5	11.3	11.8	12.0	8.6	8.5	8.8
Fargo-Moorhead	4.4	4.5	4.5	19.4	20.3	20.2	13.6	12.1	14.1
Grand Forks	1.1	1.1	1.1	6.8	6.9	6.9	8.5	8.3	8.7
Ohio	251.8	259.0	258.1	1,109.8	1,152.6	1,159.2	678.3	648.7	679.8
Akron	10.7	11.1	11.0	63.3	66.7	66.9	44.1	37.8	44.8
Canton	6.3	6.4	6.4	37.0	39.0	39.1	18.7	17.7	18.6
Cincinnati	42.7	43.9	43.8	180.6	190.3	191.2	87.4	84.2	89.5
Cleveland	57.6	59.7	59.6	242.7	251.8	254.6	113.5	114.1	114.9
Columbus	58.9	60.8	60.5	164.5	171.9	173.0	118.5	116.5	119.4
Dayton-Springfield	18.2	18.8	18.7	109.0	111.8	114.1	72.3	69.7	75.2
Toledo	12.4	12.8	12.7	74.6	78.5	79.1	42.6	36.7	43.2
Youngstown-Warren	8.4	8.4	8.3	46.8	49.1	49.8	23.1	21.5	23.2
Oklahoma	58.8	58.4	57.8	253.3	255.6	258.6	246.1	233.1	246.3
Enid	1.0	1.0	1.0	5.3	5.4	5.6	3.3	3.3	3.3
Lawton	1.5	1.5	1.5	6.1	6.4	6.3	10.9	11.1	11.5
Oklahoma City	24.1	23.8	23.6	97.3	92.4	93.8	96.1	94.4	98.2
Tulsa	17.3	17.5	17.6	77.7	79.7	80.6	37.0	36.3	36.9
Oregon	74.8	76.4	75.6	267.1	274.3	276.5	204.8	197.6	208.8
Eugene-Springfield	5.3	5.6	5.6	25.7	27.2	27.5	21.9	20.2	21.9
Portland	49.4	50.5	50.4	145.2	149.9	151.6	77.5	74.8	79.7
Salem	5.8	6.1	6.1	20.9	21.2	21.7	29.4	30.0	29.8
Pennsylvania	293.7	300.7	298.0	1,345.6	1,383.0	1,387.8	682.3	664.6	688.4
Allentown-Bethlehem	12.6	12.7	12.5	69.4	73.1	73.3	29.7	28.3	30.8
Alltoona	1.9	2.1	2.1	11.3	11.5	11.5	7.5	7.4	7.5
Beaver County	1.7	1.6	1.6	12.0	12.3	12.6	7.5	7.6	7.8
Erie	5.3	5.6	5.6	27.3	28.0	27.8	13.3	12.5	13.3
Harrisburg-Lebanon-Carlisle	18.8	20.8	20.7	65.0	69.1	67.6	65.2	65.0	66.1
Johnstown	4.8	4.5	4.5	19.9	20.4	20.4	12.9	13.0	13.0
Lancaster	7.1	7.6	7.4	39.4	40.7	41.0	15.0	13.5	15.2
Philadelphia PMSA	163.1	163.8	162.1	630.1	639.0	632.3	296.2	291.9	294.5
Philadelphia City	71.1	70.7	70.2	256.4	258.2	261.8	141.4	142.5	140.6
Pittsburgh	52.5	53.9	53.9	274.9	279.5	283.1	103.9	100.9	103.7

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^p	Sept. 1988	Aug. 1989	Sept. 1989 ^p	Sept. 1988	Aug. 1989	Sept. 1989 ^p
Pennsylvania—Continued									
Reading	151.9	153.0	155.3	(²)	(²)	(²)	7.6	8.3	8.1
Scranton—Wilkes-Barre	301.5	303.2	302.2	0.7	0.6	0.6	15.6	16.4	16.2
Williamsport	51.6	51.4	51.8	(²)	(²)	(²)	2.3	2.6	2.5
York	177.1	177.2	179.0	.5	.5	.5	9.8	10.2	10.1
Rhode Island	460.5	455.9	459.3	.2	.2	.2	22.2	23.4	23.3
Pawtucket—Woonsocket—Attleboro	132.9	132.4	133.2	.2	.2	.2	6.4	7.2	7.0
Providence	324.9	325.6	328.2	.1	.1	.1	16.7	17.4	17.3
South Carolina	1,462.1	1,505.9	1,520.1	1.8	1.9	1.9	93.9	98.1	97.2
Charleston	191.9	198.1	199.0	(¹)	(¹)	(¹)	13.2	13.9	13.8
Columbia	229.6	234.7	238.5	(¹)	(¹)	(¹)	14.4	15.5	15.3
Greenville—Spartanburg	324.0	323.9	330.9	(¹)	(¹)	(¹)	22.6	23.6	23.7
South Dakota	267.5	269.6	269.4	2.7	2.7	2.7	11.2	11.9	11.6
Rapid City	35.4	37.3	36.9	.3	.3	.3	2.1	2.2	2.1
Sioux Falls	69.4	69.3	69.8	(¹)	(¹)	(¹)	3.0	3.2	3.1
Tennessee	2,080.3	2,082.2	2,099.3	6.8	6.4	6.3	97.3	95.2	95.5
Chattanooga	196.4	200.4	201.2	.7	.7	.8	8.6	8.8	8.9
Johnson City—Kingsport—Bristol	164.0	164.6	165.4	.4	.5	.5	7.1	7.7	7.7
Knoxville	263.9	259.2	259.8	1.7	1.7	1.7	13.5	11.9	12.3
Memphis	438.5	442.8	447.4	.1	.1	.1	19.0	18.9	19.0
Nashville	483.0	477.2	482.0	.8	.7	.7	27.1	28.6	29.1
Texas	6,682.3	6,776.4	6,808.1	183.9	177.3	175.8	329.4	318.4	317.7
Abilene	49.6	48.6	49.6	2.1	1.9	1.8	2.1	1.8	1.8
Amarillo	77.3	75.8	76.7	1.3	1.3	1.2	3.8	4.0	3.9
Austin	354.3	345.1	355.1	.7	.7	.7	14.5	13.0	13.0
Beaumont—Port Arthur	132.2	134.6	135.2	1.7	2.0	1.9	8.8	9.5	9.7
Brazoria	59.4	60.8	61.2	2.0	2.0	1.9	7.0	7.4	7.2
Brownsville—Harlingen	69.0	69.2	69.8	.1	.1	.1	1.9	2.2	2.3
Bryan—College Station	49.2	48.8	51.2	.7	.6	.6	1.9	1.9	1.9
Corpus Christi	125.0	126.4	127.3	4.3	4.0	4.0	8.3	9.7	9.7
Dallas	1,349.5	1,347.7	1,356.4	18.6	17.3	17.1	53.6	51.7	51.1
El Paso	195.6	197.5	199.7	.1	.1	.1	9.1	8.6	8.2
Ft. Worth—Arlington	530.5	537.8	538.0	3.7	3.8	3.9	22.9	23.3	22.9
Galveston—Texas City	71.4	72.5	71.8	.5	.5	.5	4.5	4.7	4.8
Houston	1,436.9	1,474.8	1,480.0	66.8	66.7	66.7	89.0	91.4	90.6
Killeen—Temple	72.0	72.2	72.7	.1	.1	.1	3.6	3.5	3.3
Laredo	38.6	40.1	41.0	1.9	1.9	1.9	1.1	1.3	1.2
Longview—Marshall	66.6	66.4	66.5	3.7	3.6	3.6	3.5	3.2	3.0
Lubbock	94.0	94.4	96.2	.4	.4	.4	3.4	3.2	3.2
McAllen—Edinburg—Mission	93.5	94.0	95.5	1.0	.9	.9	4.2	4.2	4.3
Midland	44.9	43.4	43.9	10.0	9.4	9.4	1.4	1.5	1.5
Odessa	43.2	41.6	42.3	5.8	5.6	5.7	2.1	1.8	1.8
San Angelo	36.5	35.6	36.0	.5	.5	.5	1.5	1.2	1.1
San Antonio	501.4	502.4	506.3	2.3	2.1	2.1	23.8	22.3	22.2
Sherman—Denison	37.5	36.8	36.8	.1	.1	.1	1.8	1.8	1.8
Texarkana	44.9	45.6	46.5	.1	.1	.1	1.6	1.6	1.6
Tyler	60.3	60.4	61.1	1.9	1.9	2.0	2.0	2.1	2.1
Victoria	27.3	27.8	28.0	1.6	1.3	1.2	1.5	1.6	1.6
Waco	79.5	78.9	80.1	.1	.1	.1	3.8	3.3	3.2
Wichita Falls	51.0	50.1	50.4	1.9	1.8	1.8	2.2	2.0	2.0
Utah	674.9	690.0	704.5	8.1	8.5	8.5	28.2	28.7	29.4
Provo—Orem	84.6	86.1	89.1	(¹)	(¹)	(¹)	2.9	3.0	2.8
Salt Lake City—Ogden	462.8	472.1	478.4	2.5	2.8	2.8	19.7	19.6	19.7
Vermont	253.7	253.6	255.2	.7	.6	.7	19.0	20.7	20.0
Barre—Montpelier	34.1	35.6	35.3	.2	.2	.2	2.1	1.9	1.8
Burlington	77.1	76.1	76.6	(¹)	(¹)	(¹)	4.3	4.8	4.6

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
Pennsylvania—Continued									
Reading	48.3	48.5	48.8	6.8	6.3	6.9	33.9	34.6	34.7
Scranton-Wilkes-Barre	73.0	71.7	71.1	16.3	15.4	16.4	67.8	68.8	68.3
Williamsport	16.6	15.8	15.7	1.9	1.8	1.9	11.4	11.8	11.7
York	61.6	60.7	60.5	7.9	7.5	7.8	42.1	42.8	42.5
Rhode Island									
Pawtucket-Woonsocket-Attleboro	114.4	111.1	112.2	15.8	14.3	14.4	104.8	105.6	105.2
Providence	50.9	48.6	49.2	3.5	3.4	3.3	33.5	33.5	33.6
	71.7	70.1	70.6	12.6	11.5	11.6	70.7	72.0	72.0
South Carolina									
Charleston	384.4	382.5	381.0	62.8	66.4	66.5	331.9	354.6	351.8
Columbia	21.4	21.9	21.2	11.3	11.5	11.6	45.6	46.6	46.2
Greenville-Spartanburg	29.3	30.3	30.1	10.6	10.5	10.6	49.9	51.2	51.0
	102.5	102.1	101.7	12.3	12.8	12.8	74.9	77.0	77.5
South Dakota									
Rapid City	31.2	30.2	29.9	14.1	13.7	14.1	70.2	72.0	71.1
Sioux Falls	3.2	3.3	3.1	2.0	2.1	2.2	10.4	11.7	11.2
	8.7	8.2	8.1	5.4	5.4	5.4	18.6	18.9	18.9
Tennessee									
Chattanooga	509.1	512.9	512.2	110.1	111.0	110.8	490.3	493.5	493.3
Johnson City-Kingsport-Bristol	47.3	48.0	47.4	9.3	9.2	9.0	45.3	45.6	45.9
Knoxville	53.5	55.0	54.4	6.4	6.3	6.3	37.0	36.6	36.4
Memphis	54.7	51.9	52.1	10.3	10.1	10.0	66.4	66.6	67.0
Nashville	56.0	55.8	55.7	41.2	41.8	42.0	117.5	120.7	120.7
	90.2	89.4	89.8	24.2	23.9	23.9	116.7	116.0	116.0
Texas									
Abilene	964.6	971.3	968.6	394.8	404.2	403.5	1,656.4	1,670.9	1,662.7
Amarillo	4.9	5.0	5.0	2.4	2.5	2.4	13.6	13.7	13.7
Austin	9.5	8.6	8.6	5.6	5.6	5.6	22.7	22.3	22.6
Beaumont-Port Arthur	41.6	42.0	41.9	10.4	10.5	10.4	77.1	76.1	76.2
Brazoria	25.2	25.6	25.5	9.5	9.4	9.4	32.1	33.0	32.7
Brownsville-Harlingen	15.5	16.2	16.0	2.7	2.7	2.8	10.9	11.4	11.4
Bryan-College Station	10.2	10.4	10.4	3.2	3.1	3.1	18.1	18.2	18.0
Corpus Christi	3.3	3.6	3.6	1.5	1.5	1.5	10.9	10.7	10.8
Dallas	11.6	11.4	11.4	6.6	6.6	6.5	31.0	32.3	31.9
El Paso	223.4	220.8	220.2	92.5	96.1	96.7	346.7	350.2	350.0
Ft. Worth-Arlington	41.5	42.4	42.2	10.8	11.1	11.0	46.4	48.9	49.2
Galveston-Texas City	121.0	121.2	120.7	30.4	31.9	32.2	138.1	139.7	138.9
Houston	8.0	8.5	8.3	4.8	4.8	4.6	14.2	14.7	14.6
Killeen-Temple	155.5	159.0	158.4	101.0	100.9	100.7	355.3	368.6	366.6
Laredo	8.4	8.6	8.6	2.8	2.7	2.7	16.6	16.7	16.8
Longview-Marshall	1.9	1.8	1.9	4.9	5.5	5.7	11.1	12.7	12.8
Lubbock	15.9	15.4	15.3	3.1	3.2	3.2	17.1	17.4	17.2
McAllen-Edinburg-Mission	7.3	7.7	7.7	4.8	4.6	4.8	28.2	28.0	28.4
Midland	12.3	14.1	14.0	2.9	3.1	3.1	28.9	28.1	28.2
Odessa	2.6	2.5	2.5	2.3	2.2	2.2	10.2	10.0	10.0
San Angelo	4.0	4.0	3.9	2.1	2.1	2.1	12.8	12.6	12.6
San Antonio	5.4	5.4	5.3	3.1	2.8	2.7	9.2	9.0	9.1
Sherman-Denison	47.8	47.7	48.3	18.9	19.0	19.0	129.0	128.5	125.8
Texas City	11.2	11.2	10.9	1.8	1.7	1.7	7.9	8.0	7.8
Tyler	7.4	7.7	7.6	1.9	1.9	2.0	10.5	10.9	10.8
Victoria	10.5	10.4	10.4	2.5	2.6	2.6	16.1	16.2	16.4
Waco	3.0	3.1	3.0	1.4	1.4	1.4	7.6	7.8	7.6
Wichita Falls	14.8	15.2	15.2	3.3	3.4	3.4	18.8	18.9	18.9
	8.2	8.1	8.0	2.6	2.5	2.5	11.8	12.1	12.1
Utah									
Provo-Orem	101.5	104.1	104.7	40.7	41.1	41.5	160.5	168.4	170.1
Salt Lake City-Ogden	13.9	14.5	14.3	2.8	2.9	3.0	17.8	19.1	19.8
	65.5	67.1	67.1	31.4	31.4	31.8	115.1	119.1	120.3
Vermont									
Barre-Montpelier	50.0	49.1	48.7	10.4	9.6	9.7	59.5	60.6	60.1
Burlington	4.7	5.1	5.2	.9	.9	.9	7.4	7.8	7.7
	16.9	16.2	15.9	3.3	3.0	3.0	18.6	19.0	18.9

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
Pennsylvania-Continued									
Reading	8.4	8.7	8.7	30.6	31.7	31.7	16.3	14.9	16.4
Scranton-Wilkes-Barre	13.4	14.0	13.9	74.1	76.5	75.3	40.6	39.8	40.4
Williamsport	2.4	2.5	2.5	10.3	10.7	10.8	6.7	6.2	6.7
York	4.8	5.1	5.0	32.3	33.3	34.3	18.1	17.1	18.3
Rhode Island									
Pawtucket-Woonsocket-Attleboro	26.6	26.8	26.7	118.0	117.3	119.0	58.5	57.2	58.3
Providence	3.9	4.1	4.1	24.3	25.4	25.5	10.2	10.0	10.3
.....	22.5	23.8	23.8	87.8	88.1	89.4	42.8	42.6	43.4
South Carolina									
Charleston	65.4	69.2	68.2	261.3	277.8	280.2	260.6	255.4	273.3
Columbia	8.5	8.8	8.7	40.9	43.2	43.5	50.9	52.1	53.9
Greenville-Spartanburg	17.8	18.5	18.3	45.5	45.9	46.3	61.8	62.4	66.5
.....	12.0	12.1	12.1	57.7	58.0	59.8	41.7	38.0	43.0
South Dakota									
Rapid City	14.7	15.5	15.4	66.0	67.0	66.1	57.4	56.7	58.5
Sioux Falls	1.6	1.6	1.5	8.9	9.4	9.1	7.0	6.7	7.4
.....	6.6	7.0	7.0	19.6	19.9	19.9	7.3	6.6	7.4
Tennessee									
Chattanooga	104.8	106.6	106.1	434.9	446.0	446.8	327.1	310.6	328.3
Johnson City-Kingsport-Bristol	12.7	12.9	12.8	38.7	40.8	41.3	33.9	34.4	35.1
Knoxville	5.4	5.5	5.5	30.3	30.4	30.7	24.0	22.6	23.9
Memphis	9.8	9.8	9.8	57.7	59.8	59.2	49.9	47.4	47.8
Nashville	25.1	26.0	25.9	108.4	110.6	110.9	71.2	68.9	73.1
.....	34.1	34.0	33.9	121.6	119.6	119.8	68.3	65.0	68.8
Texas									
Abilene	440.1	441.9	441.9	1,537.2	1,605.2	1,607.6	1,175.9	1,187.2	1,230.3
Amarillo	2.4	2.5	2.5	13.3	12.8	13.5	8.8	8.4	8.9
Austin	4.3	4.0	4.0	16.9	17.5	17.1	13.2	12.5	13.7
Beaumont-Port Arthur	24.3	23.8	23.9	84.5	86.4	86.5	101.2	92.6	102.5
Brazoria	5.3	5.1	5.2	29.5	30.9	30.3	20.1	19.1	20.5
Brownsville-Harlingen	2.0	1.9	1.9	8.2	8.7	8.7	11.1	10.5	11.3
Bryan-College Station	3.7	3.6	3.6	15.1	15.8	15.5	16.8	15.9	16.9
Corpus Christi	1.6	1.6	1.6	9.0	9.3	9.2	20.3	19.6	22.0
Dallas	6.8	7.0	7.0	29.1	28.7	28.8	27.3	26.7	28.0
El Paso	129.5	126.8	126.0	334.1	340.5	342.2	151.1	144.3	153.1
Ft. Worth-Arlington	8.4	8.5	8.5	39.3	39.2	39.0	40.0	38.8	41.6
Galveston-Texas City	26.6	27.3	27.5	119.9	125.1	123.4	67.9	65.5	68.5
Houston	4.3	4.1	4.1	14.2	14.8	14.5	20.9	20.4	20.4
Killeen-Temple	101.4	99.9	99.8	381.0	402.4	402.2	186.9	185.9	195.0
Laredo	3.0	3.2	3.1	16.3	16.5	16.7	21.2	20.9	21.4
Longview-Marshall	1.6	1.6	1.6	6.3	6.3	6.4	9.8	9.0	9.5
Lubbock	2.6	2.7	2.7	12.4	12.7	12.9	8.3	8.2	8.6
McAllen-Edinburg-Mission	5.4	5.6	5.7	23.1	23.5	23.5	21.4	21.4	22.5
Midland	3.7	3.8	3.8	15.5	16.2	16.3	25.0	23.6	24.9
Odessa	2.3	2.2	2.2	9.5	9.5	9.4	6.6	6.1	6.7
San Angelo	1.7	1.6	1.6	7.1	7.1	7.2	7.6	6.8	7.4
San Antonio	1.8	1.8	1.8	8.1	8.2	8.2	6.9	6.7	7.3
Sherman-Denison	39.6	40.3	40.3	125.3	129.9	129.7	114.7	112.6	118.9
Texarkana	1.7	1.7	1.7	8.6	8.2	8.6	4.4	4.1	4.2
Tyler	1.9	1.9	1.9	9.5	9.7	9.8	12.0	11.8	12.7
Victoria	3.4	3.3	3.3	14.7	14.7	14.6	9.2	9.2	9.7
Waco	1.5	1.5	1.5	5.9	6.0	6.0	4.8	5.1	5.7
Wichita Falls	4.9	4.8	4.9	21.4	20.7	21.8	12.4	12.5	12.6
.....	2.4	2.4	2.3	11.9	11.9	12.0	10.0	9.3	9.7
Utah									
Provo-Orem	33.3	33.2	33.3	161.1	168.3	172.0	141.5	137.7	145.0
Salt Lake City-Ogden	2.2	2.3	2.1	31.7	31.0	33.8	13.3	13.3	13.3
.....	27.2	27.1	27.0	108.6	114.5	115.0	92.9	90.5	94.7
Vermont									
Barre-Montpelier	12.6	13.6	13.3	61.0	62.9	61.7	40.5	36.5	41.0
Burlington	3.0	3.1	3.1	7.5	8.7	8.2	8.3	7.9	8.2
.....	3.6	3.7	3.6	19.1	19.1	18.9	11.3	10.2	11.6

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	Total			Mining			Construction		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
Virginia	2,813.6	2,893.0	2,923.7	15.9	14.7	14.7	204.2	218.0	216.0
Bristol	31.9	31.7	32.9	.1	.1	.1	.9	1.0	1.0
Charlottesville	67.3	65.3	66.9	.1	.1	.1	4.1	4.2	4.1
Danville	42.5	42.6	43.7	.1	.1	.1	2.3	2.8	2.7
Lynchburg	72.4	73.5	74.5	.1	.1	.1	3.8	3.7	3.6
Norfolk-Virginia Beach-Newport News	570.3	574.6	575.8	.1	.2	.2	39.1	40.4	40.2
Northern Virginia	749.9	798.2	799.9	.6	.6	.6	62.7	71.6	71.3
Richmond-Petersburg	454.0	463.9	467.9	.9	1.2	1.2	31.1	33.4	33.0
Roanoke	123.0	123.5	123.9	.1	.1	.1	8.2	8.4	8.4
Washington	1,972.3	2,048.1	2,072.3	3.5	3.6	3.6	105.1	115.8	115.8
Seattle	1,000.0	1,054.1	1,067.0	.7	.6	.7	55.9	58.5	58.0
West Virginia	613.8	613.6	619.8	34.4	34.0	34.2	27.7	28.4	28.2
Charleston	107.9	107.9	109.1	1.9	1.9	1.9	4.8	4.2	4.2
Huntington-Ashland	105.4	106.8	108.0	1.4	1.5	1.5	3.9	4.1	4.3
Parkersburg-Marietta	60.5	61.5	61.1	.6	.6	.7	3.1	3.2	3.2
Wheeling	59.9	60.0	60.2	2.7	2.7	2.7	2.1	2.0	2.1
Wisconsin	2,182.0	2,214.9	2,222.9	2.5	2.9	2.8	76.9	82.7	82.5
Appleton-Oshkosh-Neenah	153.3	154.5	156.0	(¹)	(¹)	(¹)	7.3	8.0	8.1
Eau Claire	57.4	57.3	59.0	(¹)	(¹)	(¹)	1.7	1.5	1.6
Green Bay	97.0	100.5	101.1	(¹)	(¹)	(¹)	3.2	4.1	3.9
Janesville-Beloit	57.3	56.0	57.1	(¹)	(¹)	(¹)	1.7	1.3	1.4
Kenosha	43.7	39.1	39.7	(¹)	(¹)	(¹)	1.7	1.6	1.7
La Crosse	55.3	57.3	58.5	(¹)	(¹)	(¹)	2.1	2.6	2.4
Madison	204.9	208.4	210.3	(¹)	(¹)	(¹)	6.5	6.2	5.6
Milwaukee	722.5	734.5	738.0	(¹)	(¹)	(¹)	23.7	24.6	25.3
Racine	73.5	76.1	76.7	(¹)	(¹)	(¹)	2.1	2.5	2.6
Wausau	48.8	50.8	50.9	(¹)	(¹)	(¹)	2.1	2.5	2.4
Wyoming	189.4	191.2	195.6	19.2	18.7	19.0	11.4	11.8	11.5
Puerto Rico	815.7	812.8	818.2	.8	.8	.8	42.7	41.3	41.1
Caguas	51.8	51.0	51.6	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Mayaguez	56.7	58.4	57.4	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Ponce	53.3	54.4	54.9	.1	.1	.1	4.1	3.6	3.5
San Juan	504.7	503.8	507.0	.4	.4	.4	31.0	30.5	30.6
Virgin Islands	40.3	42.0	(¹)	(¹)	(¹)	(¹)	2.4	2.0	(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	Manufacturing			Transportation and public utilities			Wholesale and retail trade		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
Virginia	429.4	425.5	425.6	148.3	141.7	150.9	638.9	666.4	666.6
Bristol	10.6	10.1	10.9	1.1	1.1	1.1	8.2	8.8	8.7
Charlottesville	8.6	8.7	8.6	2.3	2.3	2.3	13.1	13.8	13.8
Danville	17.2	16.6	17.0	1.0	.9	.9	9.4	10.1	10.1
Lynchburg	22.8	22.9	22.9	2.6	2.3	2.5	16.4	17.1	17.0
Norfolk-Virginia Beach-Newport News	67.9	67.3	66.5	26.9	24.1	26.0	141.4	142.6	140.9
Northern Virginia	35.0	34.0	33.8	54.2	58.0	60.8	163.4	171.5	170.6
Richmond-Petersburg	62.7	61.0	61.3	23.9	21.3	24.0	109.0	114.0	113.7
Roanoke	20.3	19.5	19.4	8.4	8.0	8.4	33.4	34.0	33.6
Washington	346.7	367.3	368.6	104.4	108.3	108.7	487.1	511.4	508.0
Seattle	200.8	219.1	219.7	62.4	66.3	66.9	242.5	255.8	256.3
West Virginia	88.2	86.5	86.2	37.4	34.9	37.6	144.4	149.7	149.8
Charleston	11.0	11.1	11.2	8.6	7.7	8.9	28.5	29.2	29.2
Huntington-Ashland	19.9	20.3	20.5	8.2	7.8	8.0	27.1	27.6	27.7
Parkersburg-Marietta	14.2	14.4	13.9	2.2	2.1	2.3	14.8	14.7	14.6
Wheeling	7.2	7.6	7.4	3.4	3.2	3.4	16.8	16.6	16.5
Wisconsin	561.6	566.3	561.0	100.2	98.8	102.4	514.6	531.4	526.9
Appleton-Oshkosh-Neenah	54.0	53.6	53.4	5.4	5.7	5.8	33.1	33.6	34.4
Eau Claire	11.5	12.1	11.8	3.1	3.1	3.2	15.5	15.4	15.8
Green Bay	25.7	27.3	27.0	7.4	7.3	7.6	24.3	25.1	24.8
Janesville-Beloit	18.5	17.1	17.0	2.0	1.9	2.1	14.0	14.5	14.3
Kenosha	14.1	9.7	9.7	1.6	1.5	1.6	10.1	10.4	10.4
La Crosse	11.1	11.0	11.1	2.3	2.3	2.4	15.8	16.8	17.0
Madison	24.8	25.6	25.1	7.3	7.1	7.4	46.0	47.1	47.9
Milwaukee	174.8	176.1	177.2	35.3	34.7	36.1	165.0	171.7	169.8
Racine	25.9	26.1	26.3	2.3	2.2	2.4	16.6	17.1	17.1
Wausau	13.9	14.5	14.2	2.8	2.8	3.0	11.9	12.6	12.6
Wyoming	9.4	9.4	9.7	13.5	14.8	14.7	42.1	43.7	42.9
Puerto Rico	153.8	158.9	159.1	17.6	16.7	16.6	144.8	147.4	147.1
Caguas	16.3	16.4	16.5	(¹)	(¹)	(¹)	10.9	10.8	10.9
Mayaguez	19.1	20.8	19.8	(¹)	(¹)	(¹)	7.8	7.7	7.7
Ponce	9.6	9.7	10.0	(¹)	(¹)	(¹)	8.4	9.1	9.1
San Juan	65.3	67.1	67.5	14.1	13.5	13.5	99.8	100.6	100.5
Virgin Islands	2.4	2.4	(¹)	2.5	2.6	(¹)	9.1	9.2	(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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
Virginia	151.8	159.2	157.4	684.3	727.2	727.4	540.8	540.3	565.1
Bristol	1.2	1.3	1.3	4.6	4.5	4.5	5.2	4.8	5.3
Charlottesville	3.4	3.3	3.3	12.6	13.3	13.2	23.1	19.6	21.5
Danville	1.3	1.3	1.3	6.1	6.2	6.3	5.1	4.6	5.3
Lynchburg	4.0	4.4	4.4	13.5	14.0	14.6	9.2	9.0	9.4
Norfolk-Virginia Beach-Newport News	27.4	27.5	27.2	139.0	145.4	143.5	128.5	127.1	131.3
Northern Virginia	49.5	53.2	52.6	243.8	265.5	263.8	140.7	143.8	146.4
Richmond-Petersburg	39.2	41.4	41.1	96.2	98.8	98.2	91.0	92.8	95.4
Roanoke	8.3	8.6	8.6	29.4	30.3	30.5	14.9	14.6	14.9
Washington	111.1	116.5	116.2	453.4	474.2	480.0	361.0	351.0	371.4
Seattle	70.7	74.1	73.9	234.2	250.4	252.8	132.8	129.3	138.7
West Virginia	24.2	24.2	24.0	133.5	139.8	139.4	124.0	116.1	120.4
Charleston	6.1	6.2	6.2	26.1	26.8	26.7	20.9	20.8	20.8
Huntington-Ashland	3.8	3.8	3.8	22.8	24.1	23.8	18.3	17.6	18.4
Parkersburg-Marietta	2.3	2.4	2.4	13.7	14.2	14.2	9.6	9.9	9.8
Wheeling	2.8	2.8	2.8	15.9	16.1	16.2	9.0	9.0	9.1
Wisconsin	115.9	121.2	120.1	487.9	501.6	498.5	322.4	310.0	328.7
Appleton-Oshkosh-Neenah	7.2	7.4	7.3	30.1	30.4	30.3	15.9	15.5	16.4
Eau Claire	1.8	1.9	1.8	12.9	13.5	13.4	10.9	9.8	11.4
Green Bay	3.3	3.6	3.6	22.3	22.4	23.2	10.7	10.6	10.9
Janesville-Beloit	1.6	1.7	1.7	12.2	12.6	12.9	7.2	6.8	7.6
Kenosha	1.1	1.3	1.3	8.8	8.8	8.7	6.3	5.8	6.3
La Crosse	1.6	1.7	1.7	14.9	16.0	16.2	7.5	6.9	7.7
Madison	18.5	19.2	18.8	45.3	46.6	46.8	56.3	56.4	58.5
Milwaukee	50.7	52.4	52.2	192.6	197.2	196.3	80.1	77.5	80.8
Racine	2.2	2.4	2.4	16.2	17.5	17.7	8.2	8.3	8.2
Wausau	3.5	3.6	3.6	8.4	9.1	8.9	6.2	5.7	6.2
Wyoming	7.2	7.3	7.2	34.2	38.9	36.4	52.4	46.6	54.2
Puerto Rico	35.8	35.8	35.7	121.0	123.7	124.9	299.3	288.1	292.7
Caguas	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	16.0	15.6	16.0
Mayaguez	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	19.6	18.9	19.1
Ponce	(¹)	(¹)	(¹)	10.0	10.3	10.2	17.7	18.3	18.7
San Juan	28.4	28.8	28.5	87.5	90.1	91.6	178.1	172.8	174.3
Virgin Islands	1.9	2.0	(¹)	8.8	9.2	(¹)	13.2	14.6	(¹)

¹ Not available.
² Combined with construction.
^P = preliminary.

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 1988 benchmarks. Data for the Virgin Islands for August 1989 are preliminary.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

C-1. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by major industry, 1964 to date

Year and month	Total private ¹			Mining			Construction		
	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
Annual averages									
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
Monthly data, not seasonally adjusted									
1988:									
October	34.9	\$9.45	\$329.81	42.6	\$12.79	\$544.85	39.1	\$13.17	\$514.95
November	34.7	9.46	328.26	41.9	12.89	540.09	37.8	13.08	494.42
December	34.9	9.46	330.15	42.8	13.03	557.68	37.3	13.19	491.99
1989:									
January	34.5	9.54	329.13	42.2	13.20	557.04	36.5	13.26	483.99
February	34.3	9.55	327.57	41.7	13.22	551.27	36.2	13.21	478.20
March	34.4	9.56	328.86	42.0	13.15	552.30	37.4	13.26	495.92
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 ^p	34.8	9.77	340.00	43.9	13.17	578.16	38.6	13.47	519.94
October ^p	34.9	9.83	343.07	44.6	13.14	586.04	39.2	13.51	529.59

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

C-1. Average hours and earnings of production or nonsupervisory workers' 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
Monthly data, not seasonally adjusted										
1988:										
October	41.3	\$10.25	\$9.76	\$423.33	39.5	\$12.42	\$490.59	38.2	\$10.10	\$385.82
November	41.5	10.31	9.82	427.87	39.3	12.46	489.68	38.0	10.07	382.66
December	41.7	10.37	9.88	432.43	39.5	12.42	490.59	38.2	10.14	387.35
1989:										
January	41.0	10.37	9.91	425.17	39.3	12.47	490.07	37.9	10.23	387.72
February	40.8	10.38	9.92	423.50	39.1	12.50	488.75	37.8	10.23	386.69
March	41.0	10.41	9.94	426.81	39.2	12.46	488.43	37.9	10.21	386.96
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 ^a	41.2	10.55	10.05	434.66	39.5	12.69	501.26	38.1	10.46	398.53
October ^a	41.0	10.54	10.06	432.14	39.8	12.77	508.25	38.4	10.52	403.97

See footnotes at end of table.

**ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS**

C-1. Average hours and earnings of production or nonsupervisory workers¹ 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
Monthly data, not seasonally adjusted									
1988:									
October	29.1	\$6.39	\$185.95	36.0	\$9.29	\$334.44	32.7	\$9.09	\$297.24
November	28.8	6.43	185.18	35.7	9.27	330.94	32.5	9.11	296.08
December	29.6	6.43	190.33	35.8	9.32	333.66	32.6	9.16	298.62
1989:									
January	28.4	6.48	184.03	36.1	9.46	341.51	32.6	9.25	301.55
February	28.3	6.47	183.10	35.8	9.47	339.03	32.4	9.28	300.67
March	28.5	6.48	184.68	35.8	9.43	337.59	32.4	9.29	301.00
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 ^p	28.9	6.61	191.03	35.7	9.62	343.43	32.6	9.49	309.37
October ^p	28.9	6.63	191.61	36.2	9.77	353.67	32.8	9.60	314.88

¹ 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.

^p = 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' on private nonagricultural payrolls by detailed industry

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Total private		34.8	34.9	34.9	34.8	34.9			-		-
Mining		42.2	42.6	43.2	43.9	44.6				-	
Metal mining	10	42.1	41.6	43.2	43.5						
Iron ores	101	42.1	42.3	42.6	43.3						-
Copper ores	102	43.5	43.5	46.9	47.2						-
Coal mining	11,12	43.1	42.7	42.8	43.6						
Bituminous coal and lignite mining	12	43.2	42.8	42.9	43.6		-				-
Oil and gas extraction	13	40.5	41.5	41.9	42.9						
Crude petroleum, natural gas, and natural gas liquids	131,2	41.6	40.9	41.6	42.6		-				-
Oil and gas field services	138	39.9	41.8	42.2	43.0		-				-
Nonmetallic minerals, except fuels	14	46.1	46.5	47.4	47.2						-
Crushed and broken stone	142	47.7	47.9	48.9	48.5						-
Construction		38.4	39.1	39.0	38.6	39.2				-	-
General building contractors	15	37.8	38.4	38.1	37.8				-		-
Residential building construction	152	36.8	37.3	37.3	37.1		-		-		-
Operative builders	153	38.5	38.9	39.6	38.5						-
Nonresidential building construction	154	38.9	39.6	39.0	38.7	-					-
Heavy construction contractors	16	42.5	43.9	43.4	42.8	-					-
Highway and street construction	161	44.3	46.0	46.2	44.4		-				-
Heavy construction, except highway	162	41.5	42.8	42.1	42.1		-				-
Special trade contractors	17	37.5	38.0	38.0	37.7		-				-
Plumbing, heating, and air conditioning	171	38.7	39.1	39.0	38.8						-
Painting, paper hanging, and decorating	172	36.8	36.6	36.7	35.9	-					-
Electrical work	173	38.7	38.8	39.2	39.4	-					-
Masonry, stonework, and plastering	174	35.2	35.9	35.7	35.3		-				-
Carpentering and flooring	175	35.0	35.4	35.5	34.9		-				-
Roofing and sheet metal work	176	34.9	35.7	35.8	35.1		-				-
Manufacturing		41.3	41.3	40.8	41.2	41.0	4.2	4.1	3.8	4.1	3.9
Durable goods		42.0	42.0	41.3	41.7	41.5	4.3	4.3	3.8	4.1	4.0
Lumber and wood products	24	40.3	41.0	40.4	40.4	40.6	3.8	3.9	3.7	3.8	-
Logging camps and logging contractors	241	37.4	42.2	42.0	41.6	-	4.1	5.5	5.7	5.7	-
Sawmills and planing mills	242	41.5	42.0	41.2	41.4		4.2	4.4	4.4	4.4	-
Sawmills and planing mills, general	2421	41.8	42.3	41.5	41.7	-	4.5	4.6	4.7	4.7	-
Hardwood dimension and flooring	2426	40.3	40.7	40.0	40.1		3.3	3.4	3.3	3.2	-
Millwork, plywood, and structural members	243	40.4	40.4	39.9	40.0		3.6	3.5	3.2	3.3	-
Millwork	2431	40.3	40.0	39.2	39.4		3.1	2.8	2.2	2.5	-
Wood kitchen cabinets	2434	39.3	39.2	39.1	39.5		3.4	3.0	3.0	3.1	-
Hardwood veneer and plywood	2435	40.6	41.4	40.4	41.1		3.4	3.7	3.6	3.8	-
Softwood veneer and plywood	2436	42.8	42.9	42.5	41.9		4.8	5.4	5.1	5.1	-
Wood containers	244	38.9	39.2	38.6	38.8	-	3.4	3.5	3.2	3.6	-
Wood buildings and mobile homes	245	40.2	39.9	39.1	38.2	-	3.5	2.9	2.2	1.9	-
Mobile homes	2451	39.8	39.6	39.1	38.0		3.3	2.8	1.9	1.5	-
Miscellaneous wood products	249	40.5	40.4	40.1	40.2	-	3.2	3.3	2.9	3.1	-
Furniture and fixtures	25	40.1	40.1	39.8	40.1	40.1	3.3	3.1	2.9	3.1	-
Household furniture	251	39.5	39.7	39.2	39.3	-	2.9	2.8	2.5	2.6	-
Wood household furniture	2511	39.7	40.0	39.8	39.7	-	2.9	2.9	2.7	2.7	-
Upholstered household furniture	2512	38.5	39.0	37.9	38.1	-	2.2	2.5	1.8	1.8	-
Metal household furniture	2514	40.5	40.0	39.7	40.0		3.1	2.7	2.7	2.9	-
Mattresses and bedsprings	2515	41.1	39.4	40.8	41.1		4.6	3.3	3.9	4.2	-
Office furniture	252	40.8	40.7	39.7	40.2	-	3.4	3.0	2.4	2.8	-
Public building and related furniture	253	41.4	41.3	41.1	40.5	-	4.6	4.3	4.0	4.0	-
Partitions and fixtures	254	41.4	41.1	41.7	43.1		4.5	4.0	4.5	5.2	-
Miscellaneous furniture and fixtures	259	40.0	39.9	39.9	40.7	-	3.2	2.8	2.8	3.4	-
Stone, clay, and glass products	32	42.8	43.0	42.8	42.6	42.8	5.5	5.6	5.5	5.4	-
Flat glass	321	46.5	46.2	43.7	43.9	-	8.8	8.4	4.8	5.4	-
Glass and glassware, pressed or blown	322	41.7	41.3	41.8	41.6		4.6	4.6	4.9	4.7	-

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Total private		\$9.40	\$9.45	\$9.61	\$9.77	\$9.83	\$327.12	\$329.81	\$335.39	\$340.00	\$343.07
Mining		12.82	12.79	13.11	13.17	13.14	541.00	544.85	566.35	578.16	586.04
Metal mining	10	13.32	13.38	13.64	13.72		560.77	556.61	589.25	596.82	
Iron ores	101	13.64	13.63	14.42	13.91		574.24	576.55	614.29	602.30	
Copper ores	102	11.75	11.60	11.77	12.03		511.13	504.60	552.01	567.82	
Coal mining	11,12	16.06	15.95	16.23	16.37		692.19	681.07	694.64	713.73	
Bituminous coal and lignite mining	12	16.11	16.01	16.28	16.43		695.95	685.23	698.41	716.35	
Oil and gas extraction	13	11.84	11.84	12.30	12.30		479.52	491.36	515.37	527.67	
Crude petroleum, natural gas, and natural gas liquids	131,2	14.53	14.60	15.37	15.49		604.45	597.14	639.39	659.87	
Oil and gas field services	138	10.22	10.26	10.62	10.59		407.78	428.87	448.16	455.37	
Nonmetallic minerals, except fuels	14	11.07	11.10	11.34	11.41		510.33	516.15	537.52	538.55	
Crushed and broken stone	142	10.51	10.58	10.84	10.87		501.33	506.78	530.08	527.20	
Construction		13.16	13.17	13.33	13.47	13.51	505.34	514.95	519.87	519.94	529.59
General building contractors	15	12.33	12.40	12.56	12.71		466.07	476.16	478.54	480.44	
Residential building construction	152	11.69	11.72	12.00	12.12		430.19	437.16	447.60	449.65	
Operative builders	153	11.36	11.59	11.75	12.21		437.36	450.85	465.30	470.09	
Nonresidential building construction	154	13.09	13.17	13.22	13.41		509.20	521.53	515.58	518.97	
Heavy construction contractors	16	12.74	12.71	13.19	13.26		541.45	557.97	572.45	567.53	
Highway and street construction	161	12.71	12.66	13.12	13.25		563.05	582.36	606.14	588.30	
Heavy construction, except highway	162	12.76	12.74	13.23	13.26		529.54	545.27	556.98	558.25	
Special trade contractors	17	13.65	13.65	13.70	13.86		511.88	518.70	520.60	522.52	
Plumbing, heating, and air conditioning	171	13.91	14.00	14.11	14.34		538.32	547.40	550.29	556.39	
Painting, paper hanging, and decorating	172	12.93	12.97	12.88	12.86		475.82	474.70	472.70	461.67	
Electrical work	173	14.81	14.73	14.67	14.82		573.15	571.52	575.06	583.91	
Masonry, stonework, and plastering	174	13.87	13.82	14.06	14.08		488.22	496.14	501.94	497.02	
Carpentering and flooring	175	13.11	13.16	13.10	13.43		458.85	465.86	465.05	468.71	
Roofing and sheet metal work	176	12.10	12.06	12.22	12.33		422.29	430.54	437.48	432.78	
Manufacturing		10.25	10.25	10.44	10.55	10.54	423.33	423.33	425.95	434.66	432.14
Durable goods		10.78	10.79	10.98	11.10	11.08	452.76	453.18	453.47	462.87	459.82
Lumber and wood products	24	8.69	8.77	8.93	8.97	9.00	350.21	359.57	360.77	362.39	365.40
Logging camps and logging contractors	241	10.93	11.32	11.27	11.14	-	408.78	477.70	473.34	463.42	-
Sawmills and planing mills	242	8.85	8.86	9.07	9.13		367.28	372.12	373.68	377.98	
Sawmills and planing mills, general	2421	9.17	9.20	9.40	9.48		383.31	389.16	390.10	395.32	
Hardwood dimension and flooring	2426	7.16	7.13	7.35	7.39		288.55	290.19	294.00	296.34	
Millwork, plywood, and structural members	243	8.69	8.62	8.83	8.90		351.08	348.25	352.32	356.00	
Millwork	2431	8.93	8.78	9.08	9.18		359.88	351.20	355.94	361.69	
Wood kitchen cabinets	2434	8.06	8.08	8.22	8.29		316.76	316.74	321.40	327.46	
Hardwood veneer and plywood	2435	7.00	7.08	7.43	7.45		284.20	293.11	300.17	306.20	
Softwood veneer and plywood	2436	10.21	10.20	10.18	10.25		436.99	437.58	432.65	429.48	
Wood containers	244	6.47	6.47	6.41	6.56		251.68	253.62	247.43	254.53	
Wood buildings and mobile homes	245	8.19	8.20	8.30	8.37		329.24	327.18	324.53	319.73	
Mobile homes	2451	8.29	8.32	8.36	8.40		329.94	329.47	326.88	319.20	
Miscellaneous wood products	249	7.48	7.51	7.69	7.73		302.94	303.40	308.37	310.75	
Furniture and fixtures	25	8.09	8.06	8.29	8.40	8.39	324.41	323.21	329.94	336.84	336.44
Household furniture	251	7.44	7.43	7.67	7.73	-	293.88	294.97	300.66	303.79	-
Wood household furniture	2511	6.95	6.96	7.20	7.23		275.92	278.40	286.56	287.03	
Upholstered household furniture	2512	8.08	8.09	8.32	8.44		311.08	315.51	315.33	321.56	
Metal household furniture	2514	7.48	7.40	8.04	8.05		302.94	296.00	319.19	322.00	
Mattresses and bedspreads	2515	7.92	7.90	8.07	8.09		325.51	311.26	329.26	332.50	
Office furniture	252	9.11	9.10	9.32	9.44		371.69	370.37	370.00	379.49	
Public building and related furniture	253	8.47	8.45	8.74	8.93		350.66	348.99	359.21	361.67	
Partitions and fixtures	254	9.61	9.59	9.64	9.88		397.85	394.15	401.99	425.83	
Miscellaneous furniture and fixtures	259	8.40	8.29	8.43	8.53		336.00	330.77	336.36	347.17	
Stone, clay, and glass products	32	10.55	10.57	10.77	10.79	10.84	451.54	454.51	460.96	459.65	463.95
Flat glass	321	15.20	15.23	14.65	14.78	-	706.80	703.63	640.21	648.84	-
Glass and glassware, pressed or blown	322	11.66	11.78	12.14	12.07		486.22	486.51	507.45	502.11	

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	41.4	40.7	42.0	41.9		5.1	5.3	6.0	5.6	
Pressed and blown glass, nec	3229	42.1	42.1	41.6	41.3		4.0	3.8	3.7	3.7	
Products of purchased glass	323	43.0	42.7	41.3	41.9		4.2	4.3	3.3	3.5	
Cement, hydraulic	324	42.3	41.6	41.7	41.8		3.8	3.2	3.6	3.8	
Structural clay products	325	41.9	42.1	41.6	42.1		4.5	4.5	3.8	4.1	
Pottery and related products	326	40.6	40.7	40.7	40.7		3.7	3.6	3.4	3.5	
Concrete, gypsum, and plaster products	327	43.9	44.6	44.8	44.1		6.9	7.5	7.8	7.4	
Concrete block and brick	3271	46.3	45.9	44.8	46.1		7.6	7.5	7.5	8.1	
Concrete products, nec	3272	42.9	43.4	44.5	44.0		6.1	6.6	6.8	6.8	
Ready-mixed concrete	3273	43.5	44.6	44.7	43.3		7.0	7.7	8.5	7.4	
Misc. nonmetallic mineral products	329	42.6	42.4	42.1	42.1		5.0	4.9	4.5	4.7	
Abrasive products	3291	43.5	43.5	42.8	42.1		4.3	4.5	3.3	3.5	
Asbestos products	3292	42.7	43.0	41.7	43.4		3.6	5.1	4.8	5.2	
Primary metal industries	33	44.0	43.6	42.5	42.9	42.6	5.9	5.7	5.1	5.2	
Blast furnaces and basic steel products	331	44.7	43.9	43.0	43.1	42.9	6.3	6.0	5.5	5.3	
Blast furnaces and steel mills	3312	45.3	44.3	43.3	43.5	-	6.6	6.3	5.6	5.4	
Steel pipe and tubes	3317	42.4	41.9	41.2	41.1		5.0	4.6	5.5	4.8	
Iron and steel foundries	332	43.9	43.9	41.5	42.4		6.0	6.0	4.4	4.8	
Gray iron foundries	3321	44.1	44.1	41.6	42.4		6.4	6.4	4.5	5.1	
Malleable iron foundries	3322	42.1	42.0	40.2	42.0		4.2	4.2	3.0	3.6	
Steel foundries, nec	3325	43.6	43.9	41.1	42.1		5.8	5.9	4.4	4.3	
Primary nonferrous metals	333	43.7	43.0	42.9	43.2		5.0	4.8	4.9	5.1	
Primary aluminum	3334	43.8	42.8	42.7	43.1		4.9	4.6	4.9	5.2	
Nonferrous rolling and drawing	335	44.2	43.9	43.3	43.9		6.6	6.3	6.3	6.7	
Copper rolling and drawing	3351	44.0	43.3	44.4	44.7		6.6	6.3	6.3	6.9	
Aluminum sheet, plate, and foil	3353	45.8	45.3	42.7	43.9		8.5	7.8	7.4	8.4	
Nonferrous wire drawing and insulating	3357	43.7	43.6	42.6	43.2		6.0	6.1	5.7	6.0	
Nonferrous foundries	336	42.0	42.0	40.7	41.2		4.2	4.2	3.2	3.6	
Aluminum foundries	3361	42.3	42.5	40.6	41.2		4.4	4.3	3.1	3.6	
Fabricated metal products	34	42.1	42.0	41.2	41.8	41.8	4.5	4.4	3.7	4.2	
Metal cans and shipping containers	341	45.2	44.9	44.1	44.2	-	6.5	6.4	6.0	6.3	
Metal cans	3411	45.7	45.2	44.1	44.6		6.7	6.6	5.9	6.5	
Cutlery, hand tools, and hardware	342	41.3	41.4	40.8	41.5		3.6	3.7	3.0	3.6	
Hand and edge tools, and hand saws and blades	3423,5	41.2	41.1	40.4	41.0		3.2	3.1	2.5	3.0	
Hardware, nec	3429	41.0	41.2	40.6	41.4		3.7	3.8	3.0	3.6	
Plumbing and heating, except electric	343	41.3	40.9	40.5	41.2		3.9	3.6	3.1	3.6	
Plumbing fittings and brass goods	3432	40.8	40.7	40.1	40.5		2.6	2.8	2.3	2.5	
Heating equipment, except electric	3433	41.4	40.7	40.8	42.3		4.8	4.3	3.5	4.6	
Fabricated structural metal products	344	41.3	41.2	41.3	41.6		4.2	4.0	3.9	4.2	
Fabricated structural metal	3441	42.2	42.2	42.4	43.0		5.2	4.9	4.7	5.2	
Metal doors, sash, and trim	3442	39.8	40.0	39.8	40.2		3.0	2.9	2.7	2.9	
Fabricated plate work (boiler shops)	3443	43.0	42.3	42.0	42.6		4.8	4.2	4.1	4.6	
Sheet metal work	3444	40.1	40.1	40.4	40.6		3.4	3.4	3.5	3.4	
Architectural metal work	3446	41.3	40.8	41.3	40.8		4.9	4.5	4.8	5.0	
Screw machine products, bolts, etc	345	43.3	43.1	41.6	42.1		5.8	5.6	4.4	4.9	
Screw machine products	3451	42.0	41.6	40.5	40.9		4.9	4.7	3.6	4.0	
Bolts, nuts, rivets, and washers	3452	44.8	44.7	42.8	43.4		6.8	6.7	5.3	5.8	
Metal forgings and stampings	346	43.5	43.4	41.1	42.3		5.5	5.6	3.8	4.6	
Iron and steel forgings	3462	43.1	43.2	42.0	42.0		4.9	5.1	4.4	4.3	
Automotive stampings	3465	45.2	45.2	41.5	43.3		6.6	6.9	3.8	5.3	
Metal stampings, nec	3469	41.2	41.3	40.1	41.0		4.1	4.2	3.4	3.7	
Metal services, nec	347	40.9	41.3	40.5	40.9		3.8	3.8	3.4	3.6	
Plating and polishing	3471	40.6	41.0	39.9	40.7		3.6	3.6	2.9	3.3	
Metal coating and allied services	3479	41.5	41.9	41.6	41.3		4.2	4.2	4.3	4.1	
Ordnance and accessories, nec	348	41.9	41.4	40.7	41.6		3.5	3.0	3.1	3.6	
Ammunition, except for small arms, nec	3483	41.2	41.0	39.6	40.5		3.1	2.7	3.0	3.3	
Misc. fabricated metal products	349	41.9	42.0	40.9	41.4		4.1	4.0	3.3	3.8	
Valves and pipe fittings	3494	42.4	42.0	41.3	41.6		4.2	3.8	3.3	3.8	
Misc. fabricated wire products	3496	40.6	40.8	40.1	40.4		4.0	3.9	3.2	3.4	
Machinery, except electrical	35	42.7	42.6	41.7	42.3	42.0	4.6	4.5	4.0	4.3	
Engines and turbines	351	44.2	44.2	41.8	42.1	-	5.0	5.1	3.7	3.8	
Turbines and turbine generator sets	3511	43.2	44.7	43.0	42.8		6.2	8.0	5.8	6.1	
Internal combustion engines, nec	3519	44.5	44.1	41.3	41.9		4.6	4.2	3.0	3.0	
Farm and garden machinery	352	41.3	41.2	40.3	41.2		3.9	3.6	3.3	3.6	
Farm machinery and equipment	3523	41.7	41.4	41.1	42.0		4.7	4.1	3.8	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 workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers	3221	\$12.10	\$12.25	\$12.77	\$12.66		\$500.94	\$498.58	\$536.34	\$530.45	
Pressed and blown glass, nec	3229	11.17	11.25	11.40	11.39		470.26	473.63	474.24	470.41	
Products of purchased glass	323	9.19	9.29	9.38	9.33		395.17	396.68	387.39	390.93	
Cement, hydraulic	324	13.48	13.37	13.65	13.67		570.20	556.19	569.21	571.41	
Structural clay products	325	8.97	9.04	9.12	9.23		375.84	380.58	379.39	388.58	
Pottery and related products	326	9.34	9.32	9.52	9.50		379.20	379.32	387.46	386.65	
Concrete, gypsum, and plaster products	327	10.35	10.37	10.64	10.68		454.37	462.50	476.67	470.99	
Concrete block and brick	3271	9.35	9.35	9.78	9.89		432.91	429.17	438.14	455.93	
Concrete products, nec	3272	9.32	9.37	9.54	9.65		399.83	406.66	424.53	424.60	
Ready-mixed concrete	3273	11.14	11.16	11.46	11.45		484.59	497.74	512.26	495.79	
Misc. nonmetallic mineral products	329	10.62	10.58	10.71	10.79		452.41	448.59	450.89	454.26	
Abrasive products	3291	10.17	10.05	10.08	10.18		442.40	437.18	431.42	428.58	
Asbestos products	3292	10.74	10.88	11.23	11.21		458.60	467.84	468.29	486.51	
Primary metal industries	33	12.24	12.19	12.36	12.45	\$12.50	538.56	531.48	525.30	534.11	\$532.50
Blast furnaces and basic steel products	331	14.07	14.03	14.27	14.36	14.50	628.93	615.92	613.61	618.92	622.05
Blast furnaces and steel mills	3312	14.84	14.78	15.01	15.14	-	672.25	654.75	649.93	658.59	-
Steel pipe and tubes	3317	10.82	10.94	11.20	11.19		458.77	458.39	461.44	459.91	
Iron and steel foundries	332	11.01	11.03	11.03	11.18		483.34	484.22	457.75	474.03	
Gray iron foundries	3321	11.56	11.54	11.53	11.74		509.80	508.91	479.65	497.78	
Malleable iron foundries	3322	11.72	11.86	11.96	12.29		493.41	498.12	480.79	516.18	
Steel foundries, nec	3325	10.29	10.29	10.43	10.46		448.64	451.73	428.67	440.37	
Primary nonferrous metals	333	13.41	13.45	13.72	13.85		586.02	578.35	588.59	598.32	
Primary aluminum	3334	13.72	13.66	13.88	13.97		600.94	584.65	592.68	602.11	
Nonferrous rolling and drawing	335	11.79	11.74	11.83	11.94		521.12	515.39	512.24	524.17	
Copper rolling and drawing	3351	11.03	11.06	11.12	11.22		485.32	478.90	493.73	501.53	
Aluminum sheet, plate, and foil	3353	14.17	13.96	14.33	14.51		648.99	584.65	611.89	636.99	
Nonferrous wire drawing and insulating	3357	11.90	11.94	11.98	12.09		520.03	520.58	510.35	522.29	
Nonferrous foundries	336	9.67	9.63	9.77	9.88		406.14	404.46	397.64	407.06	
Aluminum foundries	3361	9.89	9.85	9.94	10.16		418.35	418.63	403.56	418.59	
Fabricated metal products	34	10.34	10.34	10.50	10.64	10.59	435.31	434.28	432.60	444.75	442.66
Metal cans and shipping containers	341	13.61	13.51	13.86	13.88	-	615.17	606.60	611.23	613.50	-
Metal cans	3411	14.46	14.41	14.78	14.76		660.82	651.33	651.80	658.30	
Cutlery, hand tools, and hardware	342	10.18	10.27	10.41	10.60		420.43	425.18	424.73	439.90	
Hand and edge tools, and hand saws and blades	3423,5	9.35	9.36	9.59	9.68		385.22	384.70	387.44	396.88	
Hardware, nec	3429	10.55	10.67	10.78	11.04		432.55	439.60	437.67	457.06	
Plumbing and heating, except electric	343	9.40	9.42	9.39	9.62		388.22	385.28	380.30	396.34	
Plumbing fittings and brass goods	3432	9.02	8.97	9.06	9.16		368.02	365.08	363.31	370.98	
Heating equipment, except electric	3433	9.22	9.36	9.34	9.57		381.71	380.95	381.07	404.81	
Fabricated structural metal products	344	9.69	9.71	9.95	9.97		400.20	400.05	410.94	414.75	
Fabricated structural metal	3441	10.36	10.38	10.46	10.45		37.19	438.04	443.50	449.35	
Metal doors, sash, and trim	3442	8.12	8.06	8.29	8.37		323.18	322.40	329.94	336.47	
Fabricated plate work (boiler shops)	3443	10.32	10.35	10.70	10.76		443.76	437.81	449.40	458.38	
Sheet metal work	3444	9.90	9.97	10.37	10.32		396.99	399.80	418.95	418.99	
Architectural metal work	3446	9.16	9.23	9.29	9.30		378.31	376.58	383.68	379.44	
Screw machine products, bolts, etc	345	10.11	10.13	10.30	10.41		437.76	436.60	428.48	438.26	
Screw machine products	3451	9.44	9.51	9.74	9.83		396.48	395.62	394.47	402.05	
Bolts, nuts, rivets, and washers	3452	10.82	10.78	10.87	11.01		484.74	481.87	465.24	477.83	
Metal forgings and stampings	346	12.36	12.38	12.39	12.78		537.66	537.29	509.23	540.59	
Iron and steel forgings	3462	12.91	12.79	13.20	13.35		556.42	552.53	554.40	560.70	
Automotive stampings	3465	14.08	14.16	13.96	14.54		636.42	640.03	579.34	629.58	
Metal stampings, nec	3469	9.51	9.49	9.94	9.95		391.81	391.94	398.59	407.95	
Metal services, nec	347	8.29	8.24	8.54	8.56		339.06	340.31	345.87	350.10	
Plating and polishing	3471	8.25	8.25	8.48	8.54		334.95	338.25	338.35	347.58	
Metal coating and allied services	3479	8.36	8.23	8.66	8.60		346.94	344.84	360.26	355.18	
Ordnance and accessories, nec	348	11.44	11.35	11.78	11.78		479.34	469.89	479.45	490.05	
Ammunition, except for small arms, nec	3483	11.00	11.04	11.60	11.63		453.20	452.64	459.36	471.02	
Misc. fabricated metal products	349	9.56	9.55	9.81	9.89		400.56	401.10	401.23	409.45	
Valves and pipe fittings	3494	10.40	10.31	10.68	10.72		440.96	433.02	441.08	445.95	
Misc. fabricated wire products	3496	8.63	8.56	8.43	8.51		350.38	349.25	338.04	343.80	
Machinery, except electrical	35	11.09	11.11	11.32	11.41	11.44	473.54	473.29	472.04	482.64	480.48
Engines and turbines	351	13.71	13.82	14.03	14.06	-	605.98	610.84	586.45	591.93	-
Turbines and turbine generator sets	3511	14.02	14.15	14.43	14.51		605.66	632.51	620.49	621.03	
Internal combustion engines, nec	3519	13.62	13.71	13.88	13.89		606.09	604.61	573.24	581.99	
Farm and garden machinery	352	10.36	10.39	10.61	10.69		427.87	428.07	427.58	440.43	
Farm machinery and equipment	3523	11.03	11.15	11.23	11.45		459.95	461.61	461.55	480.90	

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	43.3	43.0	42.3	42.7		4.1	4.0	4.2	4.4	
Construction machinery	3531	44.5	43.8	42.5	42.9		3.9	3.9	4.5	4.4	
Mining machinery	3532	42.6	42.1	41.1	42.3	-	4.5	4.1	3.8	4.7	-
Oil field machinery	3533	41.5	42.8	41.9	42.9	-	4.2	4.6	4.0	4.8	
Conveyors and conveying equipment	3535	43.4	42.6	43.2	42.7	-	5.0	4.6	5.1	4.9	
Industrial trucks and tractors	3537	41.9	41.7	41.3	40.9	-	3.6	3.2	3.5	3.4	
Metalworking machinery	354	43.9	43.6	42.6	43.2	-	5.7	5.5	4.9	5.3	
Machine tools, metal cutting types	3541	43.5	43.3	43.0	43.6		5.1	4.9	4.9	5.4	
Machine tools, metal forming types	3542	45.3	45.1	43.3	43.7	-	7.1	6.9	5.2	5.9	
Special dies, tools, jigs, and fixtures	3544	44.7	44.3	43.4	43.9		6.4	6.3	5.6	6.0	
Machine tool accessories	3545	42.0	41.8	40.5	41.6		4.5	4.4	3.9	4.2	
Power driven hand tools	3546	43.2	43.3	42.4	42.9		4.4	4.0	3.6	3.7	
Special industry machinery	355	42.5	42.5	41.9	42.4		5.4	4.9	4.6	5.0	
Food products machinery	3551	42.5	42.8	42.7	42.6		4.5	4.3	4.9	4.9	
Textile machinery	3552	42.7	42.7	42.1	42.7		4.0	4.1	3.7	4.2	
Printing trades machinery	3555	39.4	39.6	38.6	39.0		5.6	5.1	4.3	4.6	
General industrial machinery	356	43.3	43.0	41.6	42.2		5.2	4.9	4.1	4.4	
Pumps and pumping equipment	3561	43.9	43.3	41.6	41.4	-	4.7	4.3	3.9	3.8	
Ball and roller bearings	3562	44.3	44.4	42.6	43.8		6.3	6.5	5.4	5.9	
Air and gas compressors	3563	42.8	42.4	42.3	44.3		4.8	4.4	4.4	5.4	
Blowers and fans	3564	41.9	41.5	40.6	40.6		4.3	3.6	3.4	2.9	
Speed changers, drives, and gears	3566	43.3	43.2	41.2	41.5		5.8	5.1	4.8	4.4	
Power transmission equipment, nec	3568	42.1	41.5	41.1	42.2		5.6	4.9	4.3	4.9	
Office and computing machines	357	41.9	41.7	41.5	41.9		3.7	3.5	2.9	3.4	
Electronic computing equipment	3573	41.9	41.8	41.6	42.0		3.6	3.3	3.0	3.6	
Refrigeration and service machinery	358	41.8	41.6	41.6	41.7		3.5	3.3	3.2	3.2	
Refrigeration and heating equipment	3585	42.2	42.1	42.2	42.4		3.7	3.5	3.5	3.4	
Misc. machinery, except electrical	359	42.2	42.0	41.3	41.9		4.7	4.8	4.0	4.3	
Carburetors, pistons, rings, and valves	3592	42.2	42.5	42.3	42.4		4.9	4.8	3.5	3.7	-
Machinery, except electrical, nec	3599	42.2	42.0	41.2	41.9		4.7	4.9	4.1	4.3	
Electrical and electronic equipment	36	41.0	41.0	40.7	41.1	41.1	3.5	3.5	3.1	3.4	-
Electric distributing equipment	361	42.4	42.5	41.3	41.5	-	4.1	4.0	2.8	3.2	
Transformers	3612	42.5	42.3	41.6	41.9	-	3.9	3.8	2.9	3.1	
Switchgear and switchboard apparatus	3613	42.3	42.7	41.0	41.1		4.2	4.2	2.8	3.3	
Electrical industrial apparatus	362	42.0	42.0	41.1	42.0		3.9	3.9	3.0	4.0	
Motors and generators	3621	41.9	41.9	41.1	42.3		4.2	4.2	3.2	4.5	
Industrial controls	3622	40.9	40.9	40.4	41.1		2.8	2.6	2.3	3.0	
Household appliances	363	40.5	40.7	39.5	39.4	-	3.6	3.9	2.8	2.4	-
Household refrigerators and freezers	3632	41.1	40.9	38.5	36.1		4.4	5.2	3.0	1.5	
Household laundry equipment	3633	40.6	40.2	40.6	38.9	-	2.7	2.1	2.5	1.3	
Electric housewares and fans	3634	41.7	41.8	40.9	42.4		4.2	4.3	3.5	4.5	
Electric lighting and wiring equipment	364	40.1	39.9	40.0	40.3		3.2	3.1	2.8	2.9	
Electric lamps	3641	40.6	40.3	40.3	40.7		2.9	2.7	2.6	3.0	
Current-carrying wiring devices	3643	39.3	38.8	39.3	39.8		2.8	2.5	2.8	2.7	
Noncurrent-carrying wiring devices	3644	41.1	41.2	41.6	41.1		3.6	3.8	3.2	3.3	
Residential lighting fixtures	3645	39.2	39.3	38.3	38.6		2.7	2.5	2.4	2.3	
Radio and TV receiving equipment	365	41.9	42.1	39.6	41.1		4.2	4.6	3.3	4.0	
Radio and TV receiving sets	3651	41.7	41.3	38.9	40.3		3.8	3.8	2.7	3.2	
Communication equipment	366	40.7	40.2	41.5	41.6		2.7	2.4	2.6	2.8	
Telephone and telegraph apparatus	3661	41.4	40.9	44.4	44.4		2.8	2.4	3.0	3.4	
Radio and TV communication equipment	3662	40.4	40.0	40.4	40.6	-	2.6	2.4	2.5	2.5	
Electronic components and accessories	367	40.3	40.4	40.4	40.8	-	3.5	3.3	3.4	3.8	
Electronic tubes	3671-3	42.1	42.4	41.5	41.5		4.5	4.3	3.3	3.3	
Semiconductors and related devices	3674	39.9	39.9	39.7	40.2		3.7	3.5	3.9	4.6	
Electronic components, nec	3679	40.7	40.7	40.9	41.6		3.5	3.3	3.5	3.8	
Misc. electrical equipment and supplies	369	43.0	43.5	42.2	42.7	-	4.5	4.8	3.6	4.1	-
Storage batteries	3691	43.5	44.8	42.9	43.1		4.0	5.1	4.4	4.6	-
Engine electrical equipment	3694	43.6	43.5	42.8	43.6		5.6	5.4	4.1	4.6	

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Durable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery	353	\$11.07	\$11.06	\$11.31	\$11.48		\$479.33	\$475.58	\$478.41	\$490.20	
Construction machinery	3531	12.34	12.35	12.57	12.87		549.13	540.93	534.23	552.12	
Mining machinery	3532	11.44	11.31	11.38	11.56		487.34	476.15	467.72	488.99	
Oil field machinery	3533	10.46	10.64	11.07	11.20		434.09	455.39	463.83	480.48	
Conveyors and conveying equipment	3535	10.14	10.03	10.35	10.32		440.08	427.28	447.12	440.66	
Industrial trucks and tractors	3537	10.01	9.84	10.16	10.22		419.42	410.33	419.61	418.00	
Metalworking machinery	354	11.51	11.53	11.75	11.87		505.29	502.71	500.55	512.78	
Machine tools, metal cutting types	3541	11.38	11.42	11.65	11.78	-	495.03	494.49	500.95	513.61	
Machine tools, metal forming types	3542	12.05	11.94	11.99	12.17		545.87	538.49	519.17	531.83	
Special dies, tools, jigs, and fixtures	3544	12.35	12.38	12.57	12.72		552.05	548.43	545.54	558.41	
Machine tool accessories	3545	10.28	10.26	10.53	10.64		431.76	428.87	426.47	442.62	
Power driven hand tools	3546	9.07	9.06	9.41	9.42		391.82	392.30	398.98	404.12	
Special industry machinery	355	11.31	11.28	11.55	11.67		480.68	479.40	483.95	494.81	
Food products machinery	3551	11.11	11.15	11.69	11.73		472.18	477.22	499.16	499.70	
Textile machinery	3552	9.31	9.33	9.71	9.77		397.54	398.39	408.79	417.18	
Printing trades machinery	3555	12.50	12.37	12.59	12.72		492.50	489.85	485.97	496.08	
General industrial machinery	356	10.64	10.67	10.97	11.07		460.71	458.81	456.35	467.15	
Pumps and pumping equipment	3561	11.27	11.28	11.55	11.57		494.75	488.42	480.48	479.00	
Ball and roller bearings	3562	11.01	11.13	11.43	11.63		487.74	494.17	486.92	509.39	
Air and gas compressors	3563	10.55	10.62	10.91	10.81		451.54	450.29	461.49	478.88	
Blowers and fans	3564	9.58	9.52	9.70	9.90		401.40	395.08	393.82	401.94	
Speed changers, drives, and gears	3566	10.79	10.67	11.02	11.25		467.21	460.94	454.02	466.88	
Power transmission equipment, nec	3568	10.64	10.59	10.41	10.44		447.94	439.49	427.85	440.57	
Office and computing machines	357	10.82	10.87	11.16	11.12	-	453.36	453.28	463.14	465.93	
Electronic computing equipment	3573	10.76	10.81	11.14	11.11		450.84	451.86	463.42	466.62	
Refrigeration and service machinery	358	10.65	10.70	10.66	10.74		445.17	445.12	443.46	447.86	
Refrigeration and heating equipment	3585	10.83	10.91	10.73	10.82	-	457.03	459.31	452.81	458.77	
Misc. machinery, except electrical	359	10.73	10.74	10.96	11.04	-	452.81	451.08	452.65	462.58	
Carburetors, pistons, rings, and valves	3592	12.94	12.90	13.08	13.28		546.07	548.25	553.28	563.07	
Machinery, except electrical, nec	3599	10.43	10.44	10.70	10.77		440.15	438.48	440.84	451.26	
Electrical and electronic equipment	36	10.19	10.16	10.40	10.48	\$10.47	417.79	416.56	423.28	430.73	\$430.32
Electric distributing equipment	361	9.47	9.42	9.56	9.65	-	401.53	400.35	394.83	400.48	-
Transformers	3612	9.34	9.26	9.30	9.35	-	396.95	391.70	386.88	391.77	
Switchgear and switchboard apparatus	3613	9.61	9.59	9.82	9.94		406.50	409.49	402.62	408.53	
Electrical industrial apparatus	362	10.08	10.08	10.09	10.29	-	423.36	423.36	414.70	432.18	
Motors and generators	3621	10.05	10.12	10.02	10.25	-	421.10	424.03	411.82	433.58	
Industrial controls	3622	10.00	9.80	9.98	10.21		409.00	400.82	403.19	419.63	
Household appliances	363	10.04	10.07	10.16	9.99	-	406.62	409.85	401.32	393.61	
Household refrigerators and freezers	3632	11.84	11.92	11.85	11.70	-	486.62	487.53	456.23	422.37	
Household laundry equipment	3633	11.98	11.91	11.99	11.89	-	486.39	478.78	486.79	462.52	
Electric housewares and fans	3634	7.48	7.47	7.46	7.46	-	311.92	312.25	305.11	316.30	
Electric lighting and wiring equipment	364	9.61	9.60	9.76	9.87		385.36	383.04	390.40	397.76	
Electric lamps	3641	10.87	10.82	11.18	11.23	-	441.32	436.05	450.55	457.06	
Current-carrying wiring devices	3643	9.41	9.45	9.77	9.76		369.81	366.66	383.96	388.45	
Noncurrent-carrying wiring devices	3644	9.32	9.31	9.37	9.41	-	383.05	383.57	389.79	386.75	
Residential lighting fixtures	3645	7.02	6.85	7.27	7.32	-	275.18	269.21	278.44	282.55	
Radio and TV receiving equipment	365	9.58	9.57	9.56	9.51	-	401.40	402.90	378.58	390.86	
Radio and TV receiving sets	3651	10.02	10.07	9.96	9.94		417.83	415.89	387.44	400.58	
Communication equipment	366	12.21	12.12	12.45	12.66		496.95	487.22	516.68	526.66	
Telephone and telegraph apparatus	3661	11.76	11.56	11.55	11.89		486.86	472.80	512.82	527.92	
Radio and TV communication equipment	3662	12.39	12.34	12.84	12.99		500.56	493.60	518.74	527.39	
Electronic components and accessories	367	9.26	9.25	9.68	9.77	-	373.18	373.70	391.07	398.62	
Electronic tubes	3671-3	11.39	11.36	12.20	12.21		479.52	481.66	506.30	506.72	
Semiconductors and related devices	3674	11.19	11.18	11.81	12.02	-	446.48	446.08	468.86	483.20	
Electronic components, nec	3679	8.26	8.27	8.60	8.62		336.18	336.59	351.74	358.59	
Misc. electrical equipment and supplies	369	10.81	10.75	11.03	11.06	-	464.83	467.63	465.47	472.26	
Storage batteries	3691	11.35	11.55	11.80	12.08		493.73	517.44	506.22	520.65	
Engine electrical equipment	3694	11.47	11.25	11.59	11.51	-	500.09	489.38	496.05	501.84	

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a
Durable goods—Continued											
Transportation equipment	37	43.0	43.1	41.8	42.8	41.6	5.0	5.1	4.3	4.8	-
Motor vehicles and equipment	371	44.1	44.0	41.6	43.4	43.4	5.6	5.7	4.1	4.9	-
Motor vehicles and car bodies	3711	44.7	44.3	40.8	43.7	-	5.8	5.8	3.9	5.0	-
Truck and bus bodies	3713	42.5	42.4	43.0	42.7	-	4.5	4.3	4.6	4.4	-
Motor vehicle parts and accessories	3714	44.0	44.2	42.4	43.6	-	5.7	6.0	4.5	5.1	-
Truck trailers	3715	40.7	40.5	39.4	40.5	-	3.2	2.8	2.2	2.7	-
Aircraft and parts	372	42.5	42.5	42.8	42.7	-	4.8	5.1	5.4	5.5	-
Aircraft	3721	42.3	42.3	42.9	42.6	-	4.7	4.8	5.4	5.6	-
Aircraft engines and engine parts	3724	42.4	42.2	42.2	42.9	-	4.5	5.2	5.4	5.6	-
Aircraft equipment, nec	3728	42.8	43.2	43.1	42.9	-	5.2	5.5	5.3	5.4	-
Ship and boat building and repairing	373	39.8	40.7	40.5	40.5	-	3.3	3.0	3.0	3.2	-
Ship building and repairing	3731	40.1	41.6	41.4	41.3	-	3.6	3.4	3.3	3.4	-
Boat building and repairing	3732	39.5	39.6	39.0	39.2	-	2.9	2.5	2.5	2.8	-
Railroad equipment	374	42.4	43.1	43.1	44.6	-	4.4	4.7	4.5	5.0	-
Guided missiles, space vehicles, and parts	376	43.5	43.5	43.0	43.0	-	4.7	4.7	4.4	4.6	-
Guided missiles and space vehicles	3761	43.6	43.6	42.8	43.1	-	4.7	4.7	4.5	4.8	-
Miscellaneous transportation equipment	379	40.4	40.1	38.9	40.1	-	2.8	2.6	2.3	2.7	-
Travel trailers and campers	3792	38.3	38.5	37.8	39.0	-	2.0	1.8	1.7	2.0	-
Instruments and related products	38	41.6	41.7	40.8	41.0	41.1	3.2	3.2	2.7	2.8	-
Engineering and scientific instruments	381	42.1	42.0	41.9	42.5	-	3.2	3.2	2.8	2.4	-
Measuring and controlling devices	382	41.7	41.2	40.4	40.4	-	3.0	2.9	2.4	2.6	-
Environmental controls	3822	40.1	39.6	39.4	39.9	-	2.4	2.2	2.1	2.2	-
Process control instruments	3823	43.4	43.2	41.7	41.9	-	4.0	4.1	3.2	3.6	-
Instruments to measure electricity	3825	41.0	40.5	40.3	39.9	-	2.6	2.4	2.2	2.1	-
Optical instruments and lenses	383	44.2	44.3	42.7	43.4	-	3.8	3.7	2.7	2.6	-
Medical instruments and supplies	384	40.8	40.9	40.4	40.8	-	3.0	2.8	3.0	3.0	-
Surgical and medical instruments	3841	40.6	40.4	40.6	41.1	-	2.9	2.4	3.4	3.4	-
Surgical appliances and supplies	3842	40.8	41.2	39.9	40.2	-	3.1	3.1	2.4	2.5	-
Ophthalmic goods	385	39.9	39.6	39.4	39.3	-	3.2	3.0	3.0	2.4	-
Photographic equipment and supplies	386	43.2	45.0	42.5	42.5	-	4.1	4.8	3.0	3.2	-
Watches, clocks, and watchcases	387	41.6	42.7	39.2	38.6	-	3.7	4.0	1.3	1.9	-
Miscellaneous manufacturing	39	39.3	39.6	39.2	39.1	39.4	2.7	2.9	2.6	2.8	-
Jewelry, silverware, and plated ware	391	38.5	39.5	37.7	38.2	-	2.5	3.7	1.9	2.3	-
Jewelry, precious metal	3911	37.3	38.8	37.2	37.9	-	2.0	3.5	1.8	2.3	-
Musical instruments	393	40.3	39.7	39.0	38.5	-	2.4	2.2	1.9	1.9	-
Toys and sporting goods	394	39.1	39.2	39.1	39.1	-	2.3	2.2	2.6	2.6	-
Dolls, games, toys, and children's vehicles	3942,4	38.9	38.9	38.5	38.7	-	2.2	2.2	1.8	1.9	-
Sporting and athletic goods, nec	3949	39.2	39.4	39.6	39.4	-	2.3	2.1	3.3	3.0	-
Pens, pencils, office, and art supplies	395	39.3	39.9	40.2	40.9	-	2.6	2.7	2.2	2.9	-
Costume jewelry and notions	396	38.2	38.5	39.2	37.7	-	2.6	2.7	3.3	3.6	-
Costume jewelry	3961	35.8	36.2	38.3	36.0	-	2.1	2.3	3.8	4.1	-
Miscellaneous manufactures	399	40.1	40.3	39.6	39.7	-	3.2	3.4	2.7	2.9	-
Signs and advertising displays	3993	40.2	40.9	39.8	40.2	-	3.4	3.8	3.0	3.3	-
Nondurable goods		40.5	40.3	40.3	40.6	40.3	4.1	3.9	3.8	4.1	3.9
Food and kindred products	20	40.8	40.7	41.2	41.6	41.1	5.0	4.6	5.0	5.4	-
Meat products	201	41.4	40.9	41.0	41.7	-	5.0	4.8	4.7	5.4	-
Meat packing plants	2011	43.1	42.6	41.6	43.2	-	6.4	6.2	5.5	6.9	-
Sausages and other prepared meats	2013	41.8	40.6	41.6	41.5	-	5.4	4.4	5.2	5.5	-
Poultry dressing plants	2016	39.8	39.5	40.3	40.8	-	3.6	3.6	3.8	4.1	-
Dairy products	202	41.4	40.7	40.5	41.3	-	4.7	4.0	4.3	4.7	-
Cheese, natural and processed	2022	40.1	39.4	38.8	39.5	-	4.3	3.5	3.4	3.8	-
Fluid milk	2026	42.8	42.1	41.4	42.4	-	5.4	4.7	4.8	5.4	-
Preserved fruits and vegetables	203	39.7	40.4	41.6	41.7	-	5.3	4.8	6.1	6.5	-
Canned specialties	2032	43.4	43.7	44.6	44.4	-	7.7	5.8	7.4	8.8	-
Canned fruits and vegetables	2033	38.6	39.2	42.7	41.7	-	5.8	5.0	6.9	7.5	-
Frozen fruits and vegetables	2037	39.3	40.0	39.3	41.7	-	5.1	4.8	5.9	6.3	-
Grain mill products	204	45.7	45.0	44.5	45.4	-	7.6	6.9	6.3	7.1	-
Flour and other grain mill products	2041	49.0	47.5	47.4	49.2	-	8.7	8.0	8.1	9.0	-
Prepared feeds, nec	2048	43.8	43.7	43.1	42.9	-	6.8	6.9	6.3	6.3	-
Bakery products	205	40.5	40.3	39.6	40.0	-	4.6	4.2	4.3	4.3	-
Bread, cake, and related products	2051	39.4	39.3	39.0	39.5	-	4.5	4.2	4.4	4.4	-
Cookies and crackers	2052	43.4	42.7	41.3	41.4	-	4.7	4.2	4.2	4.1	-

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a
Durable goods—Continued											
Transportation equipment	37	\$13.44	\$13.45	\$13.70	\$13.89	\$13.86	\$577.92	\$579.70	\$572.66	\$594.49	\$576.58
Motor vehicles and equipment	371	14.10	14.09	14.18	14.48	14.48	621.81	619.96	589.89	628.43	628.43
Motor vehicles and car bodies	3711	16.14	16.08	16.46	16.76	-	721.46	712.34	671.57	732.41	-
Truck and bus bodies	3713	12.11	11.84	11.97	12.14	-	514.68	502.02	514.71	518.38	-
Motor vehicle parts and accessories	3714	13.20	13.24	13.12	13.38	-	580.80	585.21	556.29	583.37	-
Truck trailers	3715	9.19	9.20	9.40	9.47	-	374.03	372.60	370.36	383.54	-
Aircraft and parts	372	13.77	13.79	14.28	14.38	-	585.23	586.08	611.18	614.03	-
Aircraft	3721	(^b)	(^b)	(^b)	(^b)	-	-	-	-	-	-
Aircraft engines and engine parts	3724	\$13.99	\$13.91	\$14.58	\$14.62	-	\$593.18	\$587.00	\$615.28	\$627.20	-
Aircraft equipment, nec	3728	12.65	12.66	12.98	13.00	-	541.42	546.91	559.44	557.70	-
Ship and boat building and repairing	373	10.32	10.29	10.69	10.63	-	410.74	418.80	432.95	430.52	-
Ship building and repairing	3731	11.60	11.55	11.65	11.51	-	465.16	480.48	482.31	475.36	-
Boat building and repairing	3732	8.55	8.47	9.02	9.06	-	337.73	335.41	351.78	355.15	-
Railroad equipment	374	12.24	12.32	12.77	12.91	-	518.98	530.99	550.39	575.79	-
Guided missiles, space vehicles, and parts	376	13.17	13.33	13.83	13.99	-	572.90	579.86	594.69	601.57	-
Guided missiles and space vehicles	3761	(^b)	(^b)	(^b)	(^b)	-	-	-	-	-	-
Miscellaneous transportation equipment	379	\$10.13	\$10.25	\$10.49	\$10.54	-	\$409.25	\$411.03	\$408.06	\$422.65	-
Travel trailers and campers	3792	8.67	8.73	9.33	9.25	-	332.06	336.11	352.67	360.75	-
Instruments and related products	38	9.99	10.08	10.29	10.31	10.35	415.58	420.34	419.83	422.71	425.39
Engineering and scientific instruments	381	11.29	11.33	11.48	11.54	-	475.31	475.86	481.01	490.45	-
Measuring and controlling devices	382	9.71	9.73	10.05	10.11	-	404.91	400.88	406.02	408.44	-
Environmental controls	3822	9.24	9.23	9.30	9.28	-	370.52	365.51	366.42	370.27	-
Process control instruments	3823	9.44	9.48	9.72	9.82	-	409.70	409.54	405.32	411.46	-
Instruments to measure electricity	3825	9.81	9.83	10.34	10.45	-	402.21	398.12	416.70	416.96	-
Optical instruments and lenses	383	11.04	11.01	11.42	11.23	-	487.97	487.74	487.63	487.38	-
Medical instruments and supplies	384	9.00	9.05	9.35	9.31	-	367.20	370.15	377.74	379.85	-
Surgical and medical instruments	3841	9.24	9.34	9.55	9.41	-	375.14	377.34	387.73	386.75	-
Surgical appliances and supplies	3842	8.71	8.73	9.12	9.20	-	355.37	359.68	363.89	369.84	-
Ophthalmic goods	385	7.60	7.75	7.79	7.78	-	303.24	306.90	306.93	305.75	-
Photographic equipment and supplies	386	13.46	13.65	13.52	13.68	-	581.47	614.25	574.60	581.40	-
Watches, clocks, and watchcases	387	7.34	7.44	7.33	7.43	-	305.34	317.69	287.34	286.80	-
Miscellaneous manufacturing	39	8.01	8.10	8.20	8.39	8.42	314.79	320.76	321.44	328.05	331.75
Jewelry, silverware, and plated ware	391	8.56	8.79	8.95	9.04	-	329.56	347.21	337.42	345.33	-
Jewelry, precious metal	3911	8.62	8.90	8.99	9.06	-	321.53	345.32	334.43	343.37	-
Musical instruments	393	8.06	7.99	8.18	8.41	-	324.82	317.20	319.02	323.79	-
Toys and sporting goods	394	7.22	7.27	7.53	7.60	-	282.30	284.98	294.42	297.16	-
Dolls, games, toys, and children's vehicles	3942,4	6.96	7.00	7.24	7.25	-	270.74	272.30	278.74	280.58	-
Sporting and athletic goods, nec	3949	7.42	7.47	7.74	7.86	-	290.86	294.32	306.50	309.68	-
Pens, pencils, office, and art supplies	395	7.94	7.99	8.06	8.28	-	312.04	318.80	324.01	338.65	-
Costume jewelry and notions	396	6.85	6.88	6.91	7.16	-	261.67	264.88	270.87	269.93	-
Costume jewelry	3961	6.51	6.61	6.37	6.62	-	233.06	239.28	243.97	238.32	-
Miscellaneous manufactures	399	8.80	8.86	8.97	9.18	-	352.88	357.06	355.21	364.45	-
Signs and advertising displays	3993	9.20	9.33	9.45	9.72	-	369.84	381.60	376.11	390.74	-
Nondurable goods		9.50	9.49	9.71	9.80	9.80	384.75	382.45	391.31	397.88	394.94
Food and kindred products	20	9.11	9.03	9.28	9.31	9.28	371.69	367.52	382.34	387.30	381.41
Meat products	201	7.65	7.60	7.76	7.85	-	316.71	310.84	318.16	327.35	-
Meat packing plants	2011	8.57	8.48	8.67	8.83	-	369.37	361.25	360.67	381.46	-
Sausages and other prepared meats	2013	9.03	8.94	9.18	9.37	-	377.45	362.96	381.89	388.86	-
Poultry dressing plants	2016	6.38	6.39	6.59	6.58	-	253.92	252.41	265.58	268.46	-
Dairy products	202	9.99	9.94	10.12	10.32	-	413.59	404.56	409.86	426.22	-
Cheese, natural and processed	2022	9.32	9.18	9.47	9.66	-	373.73	361.69	367.44	381.57	-
Fluid milk	2026	10.42	10.32	10.54	10.71	-	445.98	434.47	436.36	454.10	-
Preserved fruits and vegetables	203	8.24	8.12	8.56	8.41	-	327.13	328.05	356.10	350.70	-
Canned specialties	2032	10.27	10.37	10.42	10.53	-	445.72	453.17	464.73	467.53	-
Canned fruits and vegetables	2033	8.32	7.93	8.70	8.46	-	321.15	310.86	371.49	352.78	-
Frozen fruits and vegetables	2037	7.35	7.45	7.48	7.51	-	288.86	298.00	293.96	313.17	-
Grain mill products	204	11.20	11.16	11.25	11.33	-	511.84	502.20	500.63	514.38	-
Flour and other grain mill products	2041	11.01	10.92	11.23	10.98	-	539.49	518.70	532.30	540.22	-
Prepared feeds, nec	2048	8.71	8.75	8.86	8.96	-	381.50	382.38	381.87	384.38	-
Bakery products	205	10.37	10.25	10.55	10.53	-	419.99	413.08	417.78	421.20	-
Bread, cake, and related products	2051	10.28	10.19	10.51	10.45	-	405.03	400.47	409.89	412.78	-
Cookies and crackers	2052	10.56	10.38	10.67	10.74	-	458.30	443.23	440.67	444.64	-

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	40.9	41.3	41.6	41.9	-	4.4	4.4	4.4	4.9	-
Cane and beet sugar	2061-3	41.0	42.2	43.8	43.5	-	6.0	7.0	5.9	7.0	-
Confectionery products	2065	40.3	40.6	40.5	40.9	-	3.9	3.6	3.9	4.1	-
Fats and oils	207	43.0	43.7	43.6	45.0	-	5.9	5.7	6.0	6.6	-
Beverages	208	40.3	40.1	41.6	41.8	-	4.0	3.3	4.2	4.3	-
Malt beverages	2082	42.6	42.4	43.0	43.0	-	5.6	5.3	6.3	5.8	-
Bottled and canned soft drinks	2086	38.8	38.3	41.1	40.8	-	2.8	2.0	3.6	3.2	-
Misc. food and kindred products	209	37.7	38.0	39.7	39.4	-	4.0	3.7	4.8	4.2	-
Tobacco manufactures	21	41.2	41.3	37.3	40.1	40.9	2.6	2.6	.9	3.0	-
Cigarettes	211	41.3	40.9	37.7	39.2	-	2.7	2.5	.6	3.0	-
Textile mill products	22	41.4	41.2	41.3	41.1	40.8	4.3	4.2	4.2	4.2	-
Weaving mills, cotton	221	41.4	41.5	42.3	41.8	-	4.6	4.4	5.0	4.8	-
Weaving mills, synthetics	222	42.4	42.1	41.3	41.2	-	4.7	4.7	4.2	4.2	-
Weaving and finishing mills, wool	223	42.7	42.6	40.5	40.7	-	3.5	3.6	2.9	3.4	-
Narrow fabric mills	224	42.5	41.9	41.4	41.1	-	4.2	4.3	3.7	3.4	-
Knitting mills	225	39.8	39.8	40.3	39.9	-	3.6	3.6	3.8	3.7	-
Women's hosiery, except socks	2251	38.1	38.9	38.3	38.7	-	2.8	3.0	2.4	2.8	-
Hosiery, nec	2252	38.8	39.0	40.3	39.7	-	2.6	2.7	3.9	3.4	-
Knit outerwear mills	2253	40.1	39.3	39.8	39.5	-	4.4	4.0	4.1	4.2	-
Knit underwear mills	2254	39.7	39.5	40.3	39.3	-	2.2	2.0	2.4	1.8	-
Circular knit fabric mills	2257	40.8	41.1	42.4	41.6	-	4.6	5.1	5.1	4.8	-
Textile finishing, except wool	226	42.6	42.3	41.8	42.3	-	5.2	4.8	4.7	5.2	-
Finishing plants, cotton	2261	43.5	43.6	42.7	43.8	-	5.2	5.3	4.8	5.8	-
Finishing plants, synthetics	2262	42.9	42.0	40.9	41.8	-	5.5	4.5	4.5	5.0	-
Floor covering mills	227	44.0	43.2	43.2	41.9	-	5.0	4.7	4.7	4.5	-
Yarn and thread mills	228	40.6	40.4	40.8	40.8	-	4.1	4.0	4.2	4.1	-
Yarn mills, except wool	2281	41.1	40.9	41.4	41.4	-	4.3	4.3	4.5	4.4	-
Throwing and winding mills	2282	38.1	37.8	37.0	37.2	-	2.9	2.4	2.3	2.5	-
Miscellaneous textile goods	229	42.5	42.4	42.2	42.5	-	4.8	4.3	4.2	4.7	-
Apparel and other textile products	23	37.1	37.1	37.1	37.0	37.1	1.9	1.9	1.9	2.0	-
Men's and boys' suits and coats	231	36.9	36.5	34.9	36.0	-	1.5	1.5	1.1	1.1	-
Men's and boys' furnishings	232	36.6	36.6	37.5	37.3	-	1.5	1.3	1.8	1.7	-
Men's and boys' shirts and nightwear	2321	37.2	37.2	38.3	37.7	-	1.4	1.2	1.6	1.7	-
Men's and boys' separate trousers	2327	36.4	36.2	35.7	35.0	-	1.1	1.1	1.5	1.3	-
Men's and boys' work clothing	2328	34.9	35.3	36.7	37.0	-	1.4	1.2	1.9	1.7	-
Women's and misses' outerwear	233	35.5	35.4	35.3	34.8	-	1.5	1.6	1.6	1.5	-
Women's and misses' blouses and waists	2331	35.9	36.4	35.1	34.6	-	1.2	1.3	1.1	1.2	-
Women's and misses' dresses	2335	35.1	35.2	34.6	34.2	-	1.6	1.6	1.6	1.6	-
Women's and misses' suits and coats	2337	36.2	35.9	36.9	35.4	-	2.2	2.1	2.3	2.2	-
Women's and misses' outerwear, nec	2339	35.4	35.2	35.3	34.9	-	1.5	1.5	1.5	1.4	-
Women's and children's undergarments	234	37.8	38.5	37.5	37.9	-	1.8	2.2	1.5	1.7	-
Women's and children's underwear	2341	38.5	39.1	38.1	38.5	-	1.8	2.2	1.6	1.8	-
Brassieres and allied garments	2342	34.4	35.6	34.3	35.1	-	1.6	2.0	.8	1.2	-
Children's outerwear	236	37.1	36.8	37.0	37.5	-	1.8	1.7	1.9	1.8	-
Children's dresses and blouses	2361	36.8	36.5	36.2	37.4	-	1.7	1.3	1.4	1.6	-
Misc. apparel and accessories	238	38.8	39.1	38.0	38.1	-	2.5	2.9	2.1	2.4	-
Misc. fabricated textile products	239	39.7	39.7	39.5	39.6	-	3.4	3.4	2.9	3.4	-
Curtains and draperies	2391	37.5	36.2	37.1	36.5	-	1.5	1.4	2.3	2.3	-
House furnishings, nec	2392	40.2	40.6	40.2	40.5	-	3.7	3.6	3.3	3.5	-
Automotive and apparel trimmings	2396	43.1	43.0	40.5	40.4	-	6.1	6.4	3.7	4.0	-
Paper and allied products	26	43.7	43.3	43.2	43.7	43.4	5.6	5.3	5.0	5.7	-
Paper and pulp mills	261,2,6	45.8	45.2	44.6	45.3	-	6.7	6.3	6.0	6.8	-
Paper mills, except building paper	262	45.9	45.3	45.0	45.8	-	6.8	6.3	6.2	7.1	-
Paperboard mills	263	44.4	44.5	44.8	45.7	-	7.4	7.3	7.2	8.0	-
Misc. converted paper products	264	42.1	41.7	41.8	42.3	-	4.7	4.3	4.0	4.6	-
Paper coating and glazing	2641	43.7	43.1	43.4	43.3	-	4.8	4.3	3.7	4.5	-
Envelopes	2642	41.3	40.9	41.2	41.6	-	3.8	3.5	3.3	3.4	-
Bags, except textile bags	2643	42.3	41.7	41.4	42.3	-	5.1	4.7	4.3	4.8	-
Paperboard containers and boxes	265	43.4	43.1	42.9	43.4	-	5.3	4.9	4.8	5.3	-
Folding paperboard boxes	2651	42.9	42.9	42.6	42.6	-	5.1	4.9	4.5	5.0	-
Corrugated and solid fiber boxes	2653	44.2	43.9	43.7	44.4	-	5.8	5.4	5.2	5.8	-
Sanitary food containers	2654	43.0	41.6	42.5	42.7	-	4.6	3.6	4.6	4.8	-

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	\$9.52	\$9.31	\$9.97	\$9.85		\$389.37	\$384.50	\$414.75	\$412.72	
Cane and beet sugar	2061-3	11.33	10.48	11.76	11.53		464.53	442.26	515.09	501.56	
Confectionery products	2065	8.36	8.24	8.87	8.69		336.91	334.54	359.24	355.42	
Fats and oils	207	9.49	9.30	10.06	10.15		408.07	406.41	438.62	456.75	
Beverages	208	12.33	12.33	12.83	12.97		496.90	494.43	533.73	542.15	
Malt beverages	2082	17.18	17.01	17.99	18.16	-	731.87	721.22	773.57	780.88	
Bottled and canned soft drinks	2086	9.72	9.76	10.28	10.24		377.14	373.81	422.51	417.79	
Misc. food and kindred products	209	8.64	8.50	8.77	8.94		325.73	323.00	348.17	352.24	
Tobacco manufactures	21	14.09	14.01	15.72	14.76	\$15.33	580.51	578.61	586.36	591.88	\$627.00
Cigarettes	211	17.40	17.63	18.60	18.97	-	718.62	721.07	701.22	743.62	-
Textile mill products	22	7.43	7.45	7.69	7.76	7.77	307.60	306.94	317.60	318.94	317.02
Weaving mills, cotton	221	7.73	7.72	8.04	8.05	-	320.02	320.38	340.09	336.49	-
Weaving mills, synthetics	222	8.02	8.03	8.33	8.38		340.05	338.06	344.03	345.26	
Weaving and finishing mills, wool	223	8.03	7.98	8.43	8.37		342.88	339.95	341.42	340.66	
Narrow fabric mills	224	6.86	6.88	7.15	7.14		291.55	288.27	296.01	293.45	
Knitting mills	225	6.69	6.70	6.98	7.06		266.26	266.66	281.29	281.69	
Women's hosiery, except socks	2251	6.64	6.63	6.76	6.88		252.98	257.91	258.91	266.26	
Hosiery, nec	2252	6.48	6.46	6.74	6.79		251.42	251.94	271.62	269.56	
Knit outerwear mills	2253	6.37	6.33	6.71	6.82		255.44	248.77	267.06	269.39	
Knit underwear mills	2254	6.51	6.54	6.94	7.00		258.45	258.33	279.68	275.10	
Circular knit fabric mills	2257	7.47	7.58	7.75	7.79		304.78	311.54	328.60	324.06	
Textile finishing, except wool	226	7.86	7.90	8.06	8.20		334.84	334.17	336.91	346.86	
Finishing plants, cotton	2261	7.85	7.89	8.04	8.14		341.48	344.00	343.31	356.53	
Finishing plants, synthetics	2262	8.14	8.17	8.47	8.56		349.21	343.14	346.42	357.81	
Floor covering mills	227	7.77	7.90	7.94	8.00		341.88	341.28	343.01	335.20	
Yarn and thread mills	228	7.14	7.15	7.41	7.47		289.88	288.86	302.33	304.78	
Yarn mills, except wool	2281	7.12	7.13	7.42	7.47		292.63	291.62	307.19	309.26	
Throwing and winding mills	2282	7.34	7.30	7.48	7.60		279.65	275.94	276.76	282.72	
Miscellaneous textile goods	229	8.46	8.47	8.64	8.74		359.55	359.13	364.61	371.45	
Apparel and other textile products	23	6.21	6.22	6.32	6.41	6.40	230.39	230.76	234.47	237.17	237.44
Men's and boys' suits and coats	231	6.84	6.94	7.07	7.15	-	252.40	253.31	246.74	257.40	-
Men's and boys' furnishings	232	5.66	5.62	5.81	5.86		207.16	205.69	217.88	218.58	
Men's and boys' shirts and nightwear	2321	5.54	5.53	5.69	5.75		206.09	205.72	217.93	216.78	
Men's and boys' separate trousers	2327	5.46	5.47	5.57	5.63		198.74	198.01	198.85	197.05	
Men's and boys' work clothing	2328	5.68	5.59	5.74	5.78		198.23	197.33	210.66	213.86	
Women's and misses' outerwear	233	5.96	5.99	6.10	6.14		211.58	212.05	215.33	213.67	
Women's and misses' blouses and waists	2331	5.18	5.16	5.30	5.37		185.96	187.82	186.03	185.80	
Women's and misses' dresses	2335	6.37	6.43	6.54	6.54		223.59	226.34	226.28	223.67	
Women's and misses' suits and coats	2337	6.64	6.63	6.56	6.59		240.37	238.02	242.06	233.29	
Women's and misses' outerwear, nec	2339	5.83	5.88	5.99	6.06		206.38	206.98	211.45	211.49	
Women's and children's undergarments	234	5.71	5.78	5.90	6.02		215.84	222.53	221.25	228.16	
Women's and children's underwear	2341	5.58	5.65	5.80	5.87		214.83	220.92	220.98	226.00	
Brassieres and allied garments	2342	6.46	6.53	6.47	6.88		222.22	232.47	221.92	241.49	
Children's outerwear	236	5.58	5.49	5.68	5.72		207.02	202.03	210.16	214.50	
Children's dresses and blouses	2361	5.57	5.56	5.63	5.69		204.98	202.94	203.81	212.81	
Misc. apparel and accessories	238	6.03	6.13	6.20	6.25		233.96	239.68	235.60	238.13	
Misc. fabricated textile products	239	7.52	7.51	7.49	7.68		298.54	298.15	295.86	304.13	
Curtains and draperies	2391	6.04	6.11	6.35	6.52		226.50	221.18	235.59	237.98	
House furnishings, nec	2392	6.35	6.32	6.49	6.49		255.27	256.59	260.90	262.85	
Automotive and apparel trimmings	2396	11.57	11.55	11.31	11.96		498.67	496.65	458.06	483.18	
Paper and allied products	26	11.72	11.68	11.90	11.99	11.93	512.16	505.74	514.08	523.96	517.76
Paper and pulp mills	261,2,6	14.49	14.42	14.64	14.80	-	663.64	651.78	652.94	670.44	-
Paper mills, except building paper	262	14.50	14.41	14.66	14.83		665.55	652.77	659.70	679.21	
Paperboard mills	263	14.53	14.60	14.76	15.01		645.13	649.70	661.25	685.96	
Misc. converted paper products	264	10.10	10.09	10.39	10.42	-	425.21	420.75	434.30	440.77	
Paper coating and glazing	2641	11.40	11.38	11.53	11.62		498.18	490.48	500.40	503.15	
Envelopes	2642	9.66	9.64	9.81	9.81		398.96	394.28	404.17	408.10	-
Bags, except textile bags	2643	9.41	9.41	9.71	9.68		398.04	392.40	401.99	409.46	
Paperboard containers and boxes	265	10.08	10.02	10.14	10.20		437.47	431.86	435.01	442.68	
Folding paperboard boxes	2651	10.42	10.44	10.54	10.62		447.02	447.88	449.00	452.41	-
Corrugated and solid fiber boxes	2653	10.27	10.22	10.32	10.36		453.93	448.66	450.98	459.98	
Sanitary food containers	2654	9.81	9.74	9.91	10.08		421.83	405.18	421.18	430.42	

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a
Nondurable goods—Continued											
Printing and publishing	27	38.5	38.1	37.8	38.3	37.7	3.6	3.4	3.0	3.5	
Newspapers	271	33.6	33.5	33.2	33.5	-	1.6	1.5	1.3	1.5	
Periodicals	272	39.3	38.5	37.9	37.9		4.3	3.6	2.9	3.6	
Books	273	39.0	38.2	39.2	38.9		3.8	3.6	3.0	3.5	
Book publishing	2731	37.8	37.2	38.4	37.9		2.4	2.7	2.2	2.3	
Book printing	2732	40.7	39.7	40.4	40.4		5.9	5.0	4.3	5.3	
Miscellaneous publishing	274	36.3	36.7	36.1	35.9		2.6	2.5	1.7	2.0	
Commercial printing	275	40.2	39.6	39.3	40.0		4.3	3.9	3.6	4.2	
Commercial printing, letterpress	2751	39.9	39.4	39.1	39.8		3.8	3.3	3.1	3.8	
Commercial printing, lithographic	2752	40.2	39.6	39.3	39.9		4.4	4.2	3.8	4.2	
Manifold business forms	276	40.8	41.2	40.9	41.5		3.8	3.8	3.8	4.1	
Blankbooks and bookbinding	278	39.8	39.5	37.4	38.0		4.0	3.8	2.8	3.2	
Printing trade services	279	38.9	39.0	39.4	39.8		5.1	4.4	4.4	4.8	
Chemicals and allied products	28	42.3	42.3	42.1	42.5	42.1	4.3	4.2	4.2	4.5	
Industrial inorganic chemicals	281	42.8	43.1	42.8	42.7	-	4.4	4.7	4.5	4.4	
Industrial inorganic chemicals, nec	2819	43.0	43.2	42.1	42.0		4.5	4.6	4.3	4.2	
Plastics materials and synthetics	282	43.7	43.8	42.7	43.2		5.1	5.4	4.8	5.0	
Plastics materials and resins	2821	43.9	44.0	43.2	43.6		5.3	5.6	5.2	5.3	
Organic fibers, noncellulosic	2824	43.6	43.9	42.5	43.5		5.0	5.3	4.4	4.8	
Drugs	283	40.9	40.7	41.2	41.8		3.1	3.2	3.6	3.9	
Pharmaceutical preparations	2834	40.5	40.3	41.0	41.8		3.2	3.2	3.6	3.9	
Soap, cleaners, and toilet goods	284	40.4	39.5	39.9	40.5		3.7	2.8	3.0	3.5	
Soap and other detergents	2841	44.2	42.5	41.9	42.1		5.5	4.8	4.9	5.4	
Polishing, sanitation, and finishing preparations	2842,3	40.7	40.6	41.0	42.0		3.1	3.2	3.1	3.7	
Toilet preparations	2844	38.4	37.4	38.2	38.8		3.0	1.5	2.0	2.3	
Paints and allied products	285	41.8	41.6	41.7	41.9		3.9	3.6	4.0	4.3	
Industrial organic chemicals	286	44.4	44.4	44.0	44.6		5.7	5.4	5.7	5.5	
Cyclic crudes and intermediates	2865	42.4	42.5	44.3	43.5		5.3	5.0	6.2	4.9	
Gum, wood, and industrial organic chemicals, nec	2861,9	45.0	44.9	43.9	44.9		5.8	5.5	5.5	5.7	
Agricultural chemicals	287	43.0	43.9	42.6	43.9		5.0	5.7	4.5	5.4	
Miscellaneous chemical products	289	42.1	42.4	42.5	42.4		4.0	3.9	4.0	4.1	
Petroleum and coal products	29	44.8	44.7	43.7	44.5	44.2	5.9	6.0	5.8	6.1	
Petroleum refining	291	44.6	44.7	42.9	44.4	-	5.3	5.7	4.9	5.5	
Paving and roofing materials	295	46.5	45.7	47.5	46.5		8.6	8.1	9.8	9.3	
Rubber and misc. plastics products	30	41.7	41.7	41.2	41.6	41.6	4.4	4.3	3.9	4.2	
Tires and inner tubes	301	44.7	44.9	43.0	43.1	-	6.4	6.5	5.5	5.4	
Rubber and plastics footwear	302	40.2	41.4	40.2	40.0		2.2	2.3	2.9	2.6	
Reclaimed rubber, and rubber and plastics hose and belting	303,4	43.9	43.9	42.6	43.4		4.1	4.3	4.2	4.6	
Fabricated rubber products, nec	306	41.5	41.6	40.7	41.5		3.8	3.7	3.3	3.8	
Miscellaneous plastics products	307	41.3	41.1	41.0	41.3		4.4	4.2	3.8	4.1	
Leather and leather products	31	37.5	37.9	38.4	38.2	37.9	2.2	2.0	2.0	2.2	
Leather tanning and finishing	311	40.5	40.9	42.1	41.9	-	3.5	3.5	4.8	4.8	
Footwear, except rubber	314	37.1	37.3	37.7	37.5		1.9	1.6	1.5	1.8	
Men's footwear, except athletic	3143	38.0	37.1	37.8	38.1		1.5	1.0	1.0	1.4	
Women's footwear, except athletic	3144	35.6	37.3	37.7	36.4		2.2	2.0	2.1	1.8	
Luggage	316	38.7	38.9	40.6	39.5		3.8	3.0	2.5	2.8	
Handbags and personal leather goods	317	36.7	37.5	37.9	38.0		2.2	2.7	2.0	2.4	
Transportation and public utilities		39.5	39.5	39.4	39.5	39.8					
Railroad transportation:											
Class I railroads ³	4011	45.3	45.2	42.6	42.6					-	
Local and interurban passenger transit	41	34.4	34.7	35.9	33.2						
Local and suburban transportation	411	38.4	38.8	38.9	37.9						
Intercity highway transportation	413	40.4	40.8	40.2	39.3						
Trucking and warehousing	42	38.5	38.7	38.7	38.9						
Trucking and trucking terminals	421,3	38.5	38.5	38.7	38.8						
Public warehousing	422	38.7	40.9	38.9	39.6						
Pipe lines, except natural gas	46	42.8	41.5	40.1	42.2						

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Nondurable goods—Continued											
Printing and publishing	27	\$10.70	\$10.68	\$10.89	\$11.05	\$11.06	\$411.95	\$406.91	\$411.64	\$423.22	\$416.96
Newspapers	271	10.63	10.57	10.80	10.91	-	357.17	354.10	358.56	365.49	-
Periodicals	272	11.24	11.30	11.60	11.74	-	441.73	435.05	439.64	444.95	-
Books	273	9.73	9.86	9.72	10.00	-	379.47	376.65	381.02	389.00	-
Book publishing	2731	9.44	9.67	9.31	9.66	-	356.83	359.72	357.50	366.11	-
Book printing	2732	10.12	10.11	10.32	10.48	-	411.88	401.37	416.93	423.39	-
Miscellaneous publishing	274	10.05	9.97	10.00	10.09	-	364.82	365.90	361.00	362.23	-
Commercial printing	275	10.97	10.94	11.18	11.37	-	440.99	433.22	439.37	454.80	-
Commercial printing, letterpress	2751	10.42	10.42	10.74	10.95	-	415.76	410.55	419.93	435.81	-
Commercial printing, lithographic	2752	11.17	11.12	11.34	11.52	-	449.03	440.35	445.66	459.65	-
Manifold business forms	276	11.02	10.99	11.41	11.44	-	449.62	452.79	466.67	474.76	-
Blankbooks and bookbinding	278	8.49	8.49	8.69	8.78	-	337.90	335.36	325.01	333.64	-
Printing trade services	279	13.14	13.09	13.43	13.42	-	511.15	510.51	529.14	534.12	-
Chemicals and allied products	28	12.75	12.78	13.08	13.18	13.21	539.33	540.59	550.67	560.15	556.14
Industrial inorganic chemicals	281	14.03	13.98	14.28	14.32	-	600.48	602.54	611.18	611.46	-
Industrial inorganic chemicals, nec	2819	14.12	13.98	14.39	14.38	-	607.16	603.94	605.82	603.96	-
Plastics materials and synthetics	282	13.16	13.25	13.39	13.51	-	575.09	580.35	571.75	583.63	-
Plastics materials and resins	2821	14.07	14.21	14.25	14.37	-	617.67	625.24	615.60	626.53	-
Organic fibers, noncellulosic	2824	12.45	12.50	12.71	12.86	-	542.82	548.75	540.18	559.41	-
Drugs	283	12.13	12.23	12.50	12.66	-	496.12	497.76	515.00	529.19	-
Pharmaceutical preparations	2834	11.92	11.96	12.47	12.61	-	482.76	481.99	511.27	527.10	-
Soap, cleaners, and toilet goods	284	10.99	11.05	11.19	11.20	-	444.00	436.48	446.48	453.60	-
Soap and other detergents	2841	14.73	14.75	15.17	15.10	-	651.07	626.88	635.62	635.71	-
Polishing, sanitation, and finishing preparations	2842,3	10.30	10.49	10.30	10.39	-	419.21	425.89	422.30	436.38	-
Toilet preparations	2844	9.13	9.13	9.29	9.31	-	350.59	341.46	354.88	361.23	-
Paints and allied products	285	11.34	11.33	11.68	11.74	-	474.01	471.33	487.06	491.91	-
Industrial organic chemicals	286	15.22	15.12	15.66	15.74	-	675.77	671.33	689.04	702.00	-
Cyclic crudes and intermediates	2865	14.80	14.42	15.68	15.49	-	627.52	612.85	694.62	673.82	-
Gum, wood, and industrial organic chemicals, nec	2861,9	15.33	15.31	15.66	15.81	-	689.85	687.42	687.47	709.87	-
Agricultural chemicals	287	12.59	12.64	12.93	13.15	-	541.37	554.90	550.82	577.29	-
Miscellaneous chemical products	289	11.59	11.58	11.98	12.11	-	487.94	490.99	509.15	513.46	-
Petroleum and coal products	29	15.01	15.14	15.23	15.50	15.69	672.45	676.76	665.55	689.75	693.50
Petroleum refining	291	16.27	16.44	16.45	16.73	-	725.64	734.87	705.71	742.81	-
Paving and roofing materials	295	11.84	11.80	12.40	12.46	-	550.56	539.26	589.00	579.39	-
Rubber and misc. plastics products	30	9.22	9.23	9.44	9.48	9.47	384.47	384.89	388.93	394.37	393.95
Tires and inner tubes	301	14.39	14.46	15.06	14.88	-	643.23	649.25	647.58	641.33	-
Rubber and plastics footwear	302	6.37	6.40	6.54	6.57	-	256.07	264.96	262.91	262.80	-
Reclaimed rubber, and rubber and plastics hose and belting	303,4	9.22	9.21	9.47	9.63	-	404.76	404.32	403.42	417.94	-
Fabricated rubber products, nec	306	8.78	8.73	8.96	9.03	-	364.37	363.17	364.67	374.75	-
Miscellaneous plastics products	307	8.64	8.63	8.77	8.86	-	356.83	354.69	359.57	365.92	-
Leather and leather products	31	6.30	6.33	6.53	6.60	6.62	236.25	239.91	250.75	252.12	250.90
Leather tanning and finishing	311	8.44	8.37	8.81	8.88	-	341.82	342.33	370.90	372.07	-
Footwear, except rubber	314	6.02	6.07	6.23	6.31	-	223.34	226.41	234.87	236.63	-
Men's footwear, except athletic	3143	6.37	6.38	6.66	6.78	-	242.06	236.70	251.75	258.32	-
Women's footwear, except athletic	3144	5.77	5.84	5.95	5.93	-	205.41	217.83	224.32	215.85	-
Luggage	316	6.32	6.18	6.48	6.79	-	244.58	240.40	263.09	268.21	-
Handbags and personal leather goods	317	5.91	5.91	6.01	5.95	-	216.90	221.63	227.78	226.10	-
Transportation and public utilities		12.40	12.42	12.56	12.69	12.77	489.80	490.59	494.86	501.26	508.25
Railroad transportation:											
Class I railroads ³	4011	15.03	14.91	16.07	16.07	-	680.86	673.93	684.58	684.58	-
Local and interurban passenger transit	41	8.57	8.57	9.07	8.90	-	294.81	297.38	325.61	295.48	-
Local and suburban transportation	411	9.12	9.15	9.65	9.61	-	350.21	355.02	375.39	364.22	-
Intercity highway transportation	413	11.36	11.26	11.73	11.65	-	458.94	459.41	471.55	457.85	-
Trucking and warehousing	42	11.03	11.05	11.39	11.45	-	424.66	427.64	440.79	445.41	-
Trucking and trucking terminals	421,3	11.20	11.27	11.55	11.62	-	431.20	433.90	446.99	450.86	-
Public warehousing	422	8.80	8.56	9.19	9.22	-	340.56	350.10	357.49	365.11	-
Pipe lines, except natural gas	46	15.66	15.94	15.77	16.37	-	670.25	661.51	632.38	690.81	-

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a
Transportation and public utilities—Continued											
Communication	48	40.1	39.7	39.0	39.6						
Telephone communication	481	41.8	41.2	40.7	41.3	-					
Radio and television broadcasting	483	35.8	36.0	35.1	35.3						
Electric, gas, and sanitary services	49	41.6	41.8	41.7	42.0						
Electric services	491	41.6	41.5	41.8	42.0		-	-			
Gas production and distribution	492	41.4	42.0	41.5	42.3						
Combination utility services	493	41.7	42.2	41.6	42.3				-	-	-
Sanitary services	495	42.4	42.5	42.4	41.9				-	-	-
Wholesale trade		38.1	38.2	38.1	38.1	38.4					
Durable goods	50	38.6	38.7	38.5	38.5	-					
Motor vehicles and automotive equipment	501	38.0	38.0	37.4	37.4	-					
Furniture and home furnishings	502	37.5	37.5	37.2	37.0			-			
Lumber and construction materials	503	39.7	39.7	39.7	39.7						
Sporting goods, toys, and hobby goods	504	36.3	36.2	35.5	35.6			-			
Metals and minerals, except petroleum	505	40.7	40.4	40.2	40.1						
Electrical goods	506	38.0	38.1	38.0	38.1						
Hardware, plumbing, and heating equipment	507	38.8	39.0	38.9	38.8						
Machinery, equipment, and supplies	508	38.9	39.0	38.9	39.0						
Miscellaneous durable goods	509	38.4	38.4	38.2	38.1		-				
Nondurable goods	51	37.4	37.6	37.4	37.5						
Paper and paper products	511	37.0	37.0	37.3	37.2						
Drugs, proprietaries, and sundries	512	37.2	37.1	37.7	37.3	-					
Apparel, piece goods, and notions	513	36.9	37.1	36.4	36.3	-					
Groceries and related products	514	38.0	37.9	38.0	38.3			-			
Chemicals and allied products	516	40.1	40.0	39.8	39.3	-					
Petroleum and petroleum products	517	38.2	38.7	38.3	38.3						
Beer, wine, and distilled beverages	518	36.4	36.1	36.5	36.3	-					
Miscellaneous nondurable goods	519	36.4	36.6	36.6	36.9						
Retail trade		29.1	29.1	29.6	28.9	28.9					
Building materials and garden supplies	52	36.8	36.7	36.9	36.4	-					
Lumber and other building materials	521	38.7	38.5	38.8	38.2						
Hardware stores	525	32.8	32.8	33.1	32.4	-			-		
General merchandise stores	53	27.8	27.5	28.1	27.8						
Department stores	531	27.5	27.2	27.9	27.7			-			
Variety stores	533	28.8	28.8	28.7	28.1				-		
Misc. general merchandise stores	539	29.8	29.3	29.7	28.8						
Food stores	54	30.3	30.0	30.7	30.0						
Grocery stores	541	30.4	30.1	30.9	30.2						
Retail bakeries	546	29.3	29.1	29.7	29.0						
Automotive dealers and service stations	55	36.3	36.4	36.6	36.2						
New and used car dealers	551,2	37.0	37.2	37.1	36.9						
Auto and home supply stores	553	38.7	38.9	38.9	38.4						
Gasoline service stations	554	34.2	34.1	34.5	34.1						
Apparel and accessory stores	56	26.9	27.0	27.7	26.9			-			
Men's and boys' clothing and furnishings	561	28.6	28.8	29.0	28.2						
Women's ready-to-wear stores	562	25.2	25.2	25.5	24.6						
Family clothing stores	565	26.9	27.1	27.4	26.9				-		
Shoe stores	566	28.7	28.5	30.1	29.2						
Furniture and home furnishings stores	57	32.9	33.0	33.3	32.9						
Furniture and home furnishings stores	571	33.5	33.6	33.8	33.5				-		
Household appliance stores	572	33.0	33.2	33.4	32.6						
Radio, television, and music stores	573	31.7	31.7	32.3	32.0						
Eating and drinking places ^d	58	25.6	25.8	26.3	25.3				-		

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Transportation and public utilities—Continued											
Communication	48	\$12.93	\$12.93	\$12.88	\$13.15	-	\$518.49	\$513.32	\$502.32	\$520.74	-
Telephone communication	481	13.66	13.63	13.59	13.90	-	570.99	561.56	553.11	574.07	-
Radio and television broadcasting	483	11.52	11.74	12.14	12.15	-	412.42	422.64	426.11	428.90	-
Electric, gas, and sanitary services	49	14.37	14.56	14.65	14.86	-	597.79	608.61	610.91	624.12	-
Electric services	491	14.50	14.59	15.02	15.23	-	603.20	605.49	627.84	639.66	-
Gas production and distribution	492	13.36	13.66	13.61	13.76	-	553.10	573.72	564.82	582.05	-
Combination utility services	493	17.03	17.36	17.10	17.26	-	710.15	732.59	711.36	730.10	-
Sanitary services	495	11.15	11.29	11.18	11.46	-	472.76	479.83	474.03	480.17	-
Wholesale trade		10.04	10.10	10.35	10.46	\$10.52	382.52	385.82	394.34	398.53	\$403.97
Durable goods	50	10.26	10.36	10.59	10.73	-	396.04	400.93	407.72	413.11	-
Motor vehicles and automotive equipment	501	9.32	9.37	9.69	9.81	-	354.16	356.06	362.41	366.89	-
Furniture and home furnishings	502	9.46	9.55	9.78	9.89	-	354.75	358.13	363.82	365.93	-
Lumber and construction materials	503	9.77	9.82	10.07	10.17	-	387.87	389.85	399.78	403.75	-
Sporting goods, toys, and hobby goods	504	9.60	9.64	9.88	10.19	-	348.48	348.97	350.74	362.76	-
Metals and minerals, except petroleum	505	10.58	10.73	10.89	11.00	-	430.61	433.49	437.78	441.10	-
Electrical goods	506	10.71	10.81	10.88	11.07	-	406.98	411.86	413.44	421.77	-
Hardware, plumbing, and heating equipment	507	9.54	9.67	10.00	10.16	-	370.15	377.13	389.00	394.21	-
Machinery, equipment, and supplies	508	10.99	11.12	11.36	11.49	-	427.51	433.68	441.90	448.11	-
Miscellaneous durable goods	509	8.04	8.12	8.35	8.46	-	308.74	311.81	318.97	322.33	-
Nondurable goods	51	9.72	9.73	9.99	10.07	-	363.53	365.85	373.63	377.63	-
Paper and paper products	511	10.64	10.69	10.90	11.16	-	393.68	395.53	406.57	415.15	-
Drugs, proprietaries, and sundries	512	11.13	11.23	11.38	11.64	-	414.04	416.63	429.03	434.17	-
Apparel, piece goods, and notions	513	9.46	9.41	9.79	9.88	-	349.07	349.11	356.36	358.64	-
Groceries and related products	514	9.89	9.89	10.14	10.16	-	375.82	374.83	385.32	389.13	-
Chemicals and allied products	516	12.27	12.37	12.46	12.59	-	492.03	494.80	495.91	494.79	-
Petroleum and petroleum products	517	9.73	9.84	9.83	10.04	-	371.69	380.81	376.49	384.53	-
Beer, wine, and distilled beverages	518	11.19	11.33	11.67	11.77	-	407.32	409.01	425.96	427.25	-
Miscellaneous nondurable goods	519	7.98	8.03	8.25	8.35	-	290.47	293.90	301.95	308.12	-
Retail trade		6.38	6.39	6.50	6.61	6.63	185.66	185.95	192.40	191.03	191.61
Building materials and garden supplies	52	7.52	7.51	7.68	7.78	-	276.74	275.62	283.39	283.19	-
Lumber and other building materials	521	7.86	7.87	8.03	8.15	-	304.18	303.00	311.56	311.33	-
Hardware stores	525	6.29	6.26	6.42	6.51	-	206.31	205.33	212.50	210.92	-
General merchandise stores	53	6.62	6.67	6.72	6.78	-	184.04	183.43	188.83	188.48	-
Department stores	531	6.93	6.99	7.00	7.04	-	190.58	190.13	195.30	195.01	-
Variety stores	533	5.03	5.07	5.26	5.31	-	144.86	146.02	150.96	149.21	-
Misc. general merchandise stores	539	5.39	5.40	5.59	5.69	-	160.62	158.22	166.02	163.87	-
Food stores	54	7.04	7.03	7.06	7.19	-	213.31	210.90	216.74	215.70	-
Grocery stores	541	7.14	7.13	7.16	7.28	-	217.06	214.61	221.24	219.86	-
Retail bakeries	546	6.06	6.08	6.03	6.11	-	177.56	176.93	179.09	177.19	-
Automotive dealers and service stations	55	8.38	8.35	8.64	8.78	-	304.19	303.94	316.22	317.84	-
New and used car dealers	551,2	10.26	10.14	10.66	10.82	-	379.62	377.21	395.49	399.26	-
Auto and home supply stores	553	7.12	7.19	7.56	7.63	-	275.54	279.69	294.08	292.99	-
Gasoline service stations	554	5.82	5.85	5.92	6.01	-	199.04	199.49	204.24	204.94	-
Apparel and accessory stores	56	5.83	5.85	5.94	6.08	-	156.83	157.95	164.54	163.55	-
Men's and boys' clothing and furnishings	561	6.99	7.04	7.27	7.41	-	199.91	202.75	210.83	208.96	-
Women's ready-to-wear stores	562	5.53	5.56	5.61	5.77	-	139.36	140.11	143.06	141.94	-
Family clothing stores	565	5.69	5.70	5.89	6.06	-	153.06	154.47	161.39	163.01	-
Shoe stores	566	5.99	5.99	5.95	6.08	-	171.91	170.72	179.10	177.54	-
Furniture and home furnishings stores	57	7.92	7.95	8.21	8.30	-	260.57	262.35	273.39	273.07	-
Furniture and home furnishings stores	571	8.07	8.08	8.19	8.30	-	270.35	271.49	276.82	278.05	-
Household appliance stores	572	7.85	7.94	8.47	8.71	-	259.05	263.61	282.90	283.95	-
Radio, television, and music stores	573	7.64	7.69	8.16	8.16	-	242.19	243.77	263.57	261.12	-
Eating and drinking places ⁴	58	4.62	4.63	4.74	4.79	-	118.27	119.45	124.66	121.19	-

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average weekly hours					Average overtime hours				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^a	Oct. 1989 ^a
Retail trade—Continued											
Miscellaneous retail	59	29.8	30.0	30.3	29.8	-	-	-	-	-	-
Drug stores and proprietary stores	591	27.3	27.5	28.0	27.4	-	-	-	-	-	-
Miscellaneous shopping goods stores	594	28.7	28.7	29.4	28.2	-	-	-	-	-	-
Nonstore retailers	596	32.5	32.6	33.1	33.4	-	-	-	-	-	-
Fuel and ice dealers	598	38.3	39.8	37.8	37.8	-	-	-	-	-	-
Retail stores, nec	599	31.3	31.7	31.7	31.7	-	-	-	-	-	-
Finance, insurance, and real estate⁵		35.8	36.0	35.8	35.7	36.2	-	-	-	-	-
Banking	60	35.7	36.0	35.6	35.2	-	-	-	-	-	-
Commercial and stock savings banks	602	35.7	36.0	35.6	35.1	-	-	-	-	-	-
Credit agencies other than banks	61	36.2	36.7	36.4	36.3	-	-	-	-	-	-
Savings and loan associations	612	35.7	36.0	35.9	35.9	-	-	-	-	-	-
Personal credit institutions	614	36.2	36.2	36.3	36.3	-	-	-	-	-	-
Insurance carriers	63	37.1	37.3	37.1	37.0	-	-	-	-	-	-
Life insurance	631	36.8	37.0	37.1	37.0	-	-	-	-	-	-
Medical service and health insurance	632	38.0	37.8	37.6	37.4	-	-	-	-	-	-
Fire, marine, and casualty insurance	633	36.8	37.0	36.9	36.9	-	-	-	-	-	-
Services		32.5	32.7	32.9	32.6	32.6	-	-	-	-	-
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	31.3	32.1	31.8	31.2	-	-	-	-	-	-
Personal services:											
Laundry, cleaning, and garment services	721	34.1	34.5	34.1	34.1	-	-	-	-	-	-
Beauty shops ⁴	723	30.1	30.1	29.5	29.4	-	-	-	-	-	-
Business services	73	33.4	33.8	33.9	33.7	-	-	-	-	-	-
Advertising	731	36.8	37.1	36.7	36.4	-	-	-	-	-	-
Services to buildings	734	29.4	29.8	29.8	29.5	-	-	-	-	-	-
Computer and data processing services	737	37.8	38.3	37.8	38.1	-	-	-	-	-	-
Auto repair, services, and garages	75	36.7	36.8	37.2	36.7	-	-	-	-	-	-
Automotive repair shops	753	38.2	38.0	38.4	38.2	-	-	-	-	-	-
Miscellaneous repair services	76	38.1	38.1	38.0	37.7	-	-	-	-	-	-
Motion pictures	78	28.0	28.4	29.5	28.7	-	-	-	-	-	-
Motion picture production and services	781	35.8	36.2	34.8	34.8	-	-	-	-	-	-
Amusement and recreation services	79	27.9	27.7	30.0	28.0	-	-	-	-	-	-
Health services	80	32.4	32.4	32.5	32.5	-	-	-	-	-	-
Offices of physicians	801	31.2	31.4	31.5	31.5	-	-	-	-	-	-
Offices of dentists	802	28.4	28.5	28.4	28.4	-	-	-	-	-	-
Nursing and personal care facilities	805	31.7	31.7	31.8	31.9	-	-	-	-	-	-
Hospitals	806	34.0	33.9	34.1	34.1	-	-	-	-	-	-
Legal services	81	34.5	34.8	35.0	34.8	-	-	-	-	-	-
Miscellaneous services	89	38.0	38.1	37.7	37.9	-	-	-	-	-	-
Engineering and architectural services	891	39.3	39.3	38.9	39.1	-	-	-	-	-	-
Accounting, auditing, and bookkeeping	893	36.4	36.6	36.0	36.6	-	-	-	-	-	-

See footnotes at end of table.

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

C-2. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by detailed industry—Continued

Industry	1972 SIC Code	Average hourly earnings					Average weekly earnings				
		Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Retail trade—Continued											
Miscellaneous retail	59	\$6.64	\$6.65	\$6.76	\$6.86	-	\$197.87	\$199.50	\$204.83	\$204.43	-
Drug stores and proprietary stores	591	6.34	6.31	6.41	6.50	-	173.08	173.53	179.48	178.10	-
Miscellaneous shopping goods stores	594	6.22	6.18	6.34	6.44	-	178.51	177.37	186.40	181.61	-
Nonstore retailers	596	7.47	7.48	7.74	7.77	-	242.76	243.85	256.19	259.52	-
Fuel and ice dealers	598	9.13	9.33	9.20	9.34	-	349.68	371.33	347.76	353.05	-
Retail stores, nec	599	6.80	6.84	6.98	7.06	-	212.84	216.83	221.27	223.80	-
Finance, insurance, and real estate⁵		9.14	9.29	9.50	9.62	\$9.77	327.21	334.44	340.10	343.43	\$353.67
Banking	60	7.87	7.98	8.21	8.32	-	280.96	287.28	292.28	292.86	-
Commercial and stock savings banks	602	7.55	7.66	7.80	7.90	-	269.54	275.76	277.68	277.29	-
Credit agencies other than banks	61	8.36	8.51	8.63	8.74	-	302.63	312.32	314.13	317.26	-
Savings and loan associations	612	7.86	8.07	8.03	8.11	-	280.60	290.52	288.28	291.15	-
Personal credit institutions	614	7.81	7.95	8.11	8.15	-	282.72	287.79	294.39	295.85	-
Insurance carriers	63	10.29	10.41	10.67	10.74	-	381.76	388.29	395.86	397.38	-
Life insurance	631	9.76	9.83	9.95	9.98	-	359.17	363.71	369.15	369.26	-
Medical service and health insurance	632	9.90	10.09	10.26	10.41	-	376.20	381.40	385.78	389.33	-
Fire, marine, and casualty insurance	633	10.83	10.97	11.46	11.53	-	398.54	405.89	422.87	425.46	-
Services		9.00	9.09	9.29	9.49	9.60	292.50	297.24	305.64	309.37	314.88
Hotels and other lodging places:											
Hotels, motels, and tourist courts ⁴	701	6.45	6.46	6.49	6.69	-	201.89	207.37	206.38	208.73	-
Personal services:											
Laundry, cleaning, and garment services	721	6.34	6.36	6.62	6.67	-	216.19	219.42	225.74	227.45	-
Beauty shops ⁴	723	6.80	6.75	7.01	6.99	-	204.68	203.18	206.80	205.51	-
Business services	73	9.18	9.24	9.57	9.68	-	306.61	312.31	324.42	326.22	-
Advertising	731	12.52	12.63	13.01	13.13	-	460.74	468.57	477.47	477.93	-
Services to buildings	734	6.89	6.92	7.15	7.14	-	202.57	206.22	213.07	210.63	-
Computer and data processing services	737	13.22	13.40	14.09	14.18	-	499.72	513.22	532.60	540.26	-
Auto repair, services, and garages	75	8.25	8.23	8.46	8.53	-	302.78	302.86	314.71	313.05	-
Automotive repair shops	753	8.98	8.98	9.35	9.38	-	343.04	341.24	359.04	358.32	-
Miscellaneous repair services	76	9.63	9.62	9.86	10.00	-	366.90	366.52	374.68	377.00	-
Motion pictures	78	11.63	11.88	11.68	12.23	-	325.64	337.39	344.56	351.00	-
Motion picture production and services	781	15.40	15.52	15.66	15.74	-	551.32	561.82	544.97	547.75	-
Amusement and recreation services	79	7.42	7.74	7.03	7.74	-	207.02	214.40	210.90	216.72	-
Health services	80	9.37	9.43	9.86	9.97	-	303.59	305.53	320.45	324.03	-
Offices of physicians	801	8.91	8.98	9.29	9.40	-	277.99	281.97	292.64	296.10	-
Offices of dentists	802	8.95	9.03	9.44	9.54	-	254.18	257.36	268.10	270.94	-
Nursing and personal care facilities	805	6.47	6.50	6.81	6.88	-	205.10	206.05	216.56	219.47	-
Hospitals	806	10.89	10.75	11.27	11.38	-	363.46	364.43	384.31	388.06	-
Legal services	81	12.77	13.14	13.33	13.39	-	440.57	457.27	466.55	465.97	-
Miscellaneous services	89	12.74	12.94	13.21	13.44	-	484.12	493.01	498.02	509.38	-
Engineering and architectural services	891	13.47	13.67	13.84	14.17	-	529.37	537.23	538.38	554.05	-
Accounting, auditing, and bookkeeping	893	11.13	11.32	11.65	11.69	-	405.13	414.31	419.40	427.85	-

¹ 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.

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

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

⁴ Money payments only; tips, not included.

⁵ Data for nonoffice sales agents are excluded from all series in this division.

- Data not available.

^p = 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)			
	Aug. 1988	Sept. 1988	Aug. 1989	Sept. 1989 ^p	Aug. 1988	Sept. 1988	Aug. 1989	Sept. 1989 ^p
Average hourly earnings, excluding lump-sum payments	\$14.20	\$14.36	\$14.91	\$15.06	\$13.63	\$13.51	\$14.29	\$14.44
Average hourly earnings, including lump-sum payments	14.69	14.82	15.36	15.51	14.06	13.94	14.72	14.85

^p = preliminary.

**ESTABLISHMENT DATA
EARNINGS
NOT SEASONALLY ADJUSTED**

C-3. Average hourly earnings, excluding overtime,¹ of production workers on manufacturing payrolls

Industry	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Manufacturing	\$9.75	\$9.76	\$9.97	\$10.05	\$10.06
Durable goods	10.25	10.26	10.49	10.58	10.57
Lumber and wood products	8.30	8.36	8.54	8.57	(2)
Furniture and fixtures	7.77	7.76	8.00	8.09	(2)
Stone, clay, and glass products	9.91	9.92	10.12	10.15	(2)
Primary metal industries	11.47	11.44	11.66	11.74	(2)
Fabricated metal products	9.82	9.83	10.05	10.13	(2)
Machinery, except electrical	10.51	10.55	10.81	10.86	(2)
Electrical and electronic equipment	9.77	9.75	10.02	10.07	(2)
Transportation equipment	12.71	12.70	13.02	13.15	(2)
Instruments and related products	9.62	9.71	9.95	9.98	(2)
Miscellaneous manufacturing	7.75	7.81	7.94	8.10	(2)
Nondurable goods	9.05	9.05	9.27	9.32	\$9.35
Food and kindred products	8.58	8.54	8.75	8.74	(2)
Tobacco manufactures	13.67	13.59	15.54	14.24	(2)
Textile mill products	7.06	7.09	7.32	7.38	(2)
Apparel and other textile products	6.05	6.06	6.16	6.25	(2)
Paper and allied products	11.01	11.01	11.25	11.26	(2)
Printing and publishing	10.22	10.23	10.48	10.57	(2)
Chemicals and allied products	12.13	12.17	12.45	12.52	(2)
Petroleum and coal products	14.09	14.18	14.28	14.51	(2)
Rubber and misc. plastics products	8.75	8.78	9.01	9.03	(2)
Leather and leather products	6.12	6.16	6.37	6.42	(2)

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

² Not available.

^p = 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 workers¹ on private nonagricultural payrolls by major industry, in current and constant (1977) dollars.

INDUSTRY	Average hourly earnings					Average weekly earnings				
	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p	Sept. 1988	Oct. 1988	Aug. 1989	Sept. 1989 ^p	Oct. 1989 ^p
Total private:										
Current dollars	\$9.40	\$9.45	\$9.61	\$9.77	\$9.83	\$327.12	\$329.81	\$335.39	\$340.00	\$343.07
Constant (1977) dollars	4.83	4.84	4.75	4.81	(²)	168.10	168.96	165.79	167.49	(²)
Mining:										
Current dollars	12.82	12.79	13.11	13.17	\$13.14	541.00	544.85	566.35	578.16	\$586.04
Constant (1977) dollars	6.59	6.55	6.48	6.49	(²)	278.01	279.12	279.96	284.81	(²)
Construction:										
Current dollars	13.16	13.17	13.33	13.47	\$13.51	505.34	514.95	519.87	519.94	\$529.59
Constant (1977) dollars	6.76	6.75	6.59	6.64	(²)	259.68	263.81	256.98	256.13	(²)
Manufacturing:										
Current dollars	10.25	10.25	10.44	10.55	\$10.54	423.33	423.33	425.95	434.66	\$432.14
Constant (1977) dollars	5.27	5.25	5.16	5.20	(²)	217.54	216.87	210.55	214.12	(²)
Transportation and public utilities:										
Current dollars	12.40	12.42	12.56	12.69	\$12.77	489.80	490.59	494.86	501.26	\$508.25
Constant (1977) dollars	6.37	6.36	6.21	6.25	(²)	251.70	251.33	244.62	246.93	(²)
Wholesale trade:										
Current dollars	10.04	10.10	10.35	10.46	\$10.52	382.52	385.82	394.34	398.53	\$403.97
Constant (1977) dollars	5.16	5.17	5.12	5.15	(²)	196.57	197.65	194.93	196.32	(²)
Retail trade:										
Current dollars	6.38	6.39	6.50	6.61	\$6.63	185.66	185.95	192.40	191.03	\$191.61
Constant (1977) dollars	3.28	3.27	3.21	3.26	(²)	95.41	95.26	95.11	94.10	(²)
Finance, insurance, and real estate:										
Current dollars	9.14	9.29	9.50	9.62	\$9.77	327.21	334.44	340.10	343.43	\$353.67
Constant (1977) dollars	4.70	4.76	4.70	4.74	(²)	168.14	171.33	168.12	169.18	(²)
Services:										
Current dollars	9.00	9.09	9.29	9.49	\$9.60	292.50	297.24	305.64	309.37	\$314.88
Constant (1977) dollars	4.62	4.66	4.59	4.67	(²)	150.31	152.27	151.08	152.40	(²)

¹ 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.

² Not available.

^p = 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 workers¹ on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

Industry	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^p	Oct. ^p
Total private	34.8	34.7	34.7	34.8	34.6	34.7	34.9	34.6	34.6	34.8	34.6	34.7	34.8
Mining	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Construction	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Manufacturing	41.2	41.2	41.0	41.1	41.1	41.0	41.3	41.0	41.0	41.0	41.0	41.1	40.8
<i>Overtime hours</i>	4.0	3.9	3.9	3.9	3.9	4.0	3.9	3.8	3.8	3.9	3.8	3.8	3.8
Durable goods	41.9	41.9	41.7	41.8	41.8	41.7	41.9	41.5	41.5	41.5	41.6	41.6	41.4
<i>Overtime hours</i>	4.2	4.2	4.1	4.1	4.1	4.1	4.1	3.9	3.9	4.0	3.9	3.9	3.8
Lumber and wood products	40.7	40.3	40.3	40.3	39.6	40.0	40.5	39.7	39.8	39.6	40.2	40.2	40.4
Furniture and fixtures	39.4	39.5	39.4	39.8	39.7	39.8	39.9	39.4	39.4	39.5	39.6	39.6	39.4
Stone, clay, and glass products	42.5	42.6	42.4	42.5	42.2	42.2	42.5	41.9	42.2	42.3	42.5	42.2	42.3
Primary metal industries	43.7	43.7	43.5	43.6	43.4	43.5	43.3	43.2	43.3	43.0	42.9	42.8	42.7
Blast furnaces and basic steel products ..	44.2	44.0	43.8	44.0	43.8	44.1	43.5	43.6	43.7	43.2	43.4	42.9	43.2
Fabricated metal products	41.9	42.1	41.8	41.9	41.9	41.8	41.9	41.7	41.5	41.5	41.5	41.7	41.7
Machinery, except electrical	42.7	42.5	42.5	42.5	42.6	42.5	42.7	42.5	42.5	42.4	42.2	42.3	42.0
Electrical and electronic equipment	41.0	41.0	40.8	40.9	40.9	40.6	41.0	40.7	40.7	40.6	40.9	41.1	41.0
Transportation equipment	43.1	43.1	42.8	42.8	43.1	43.1	42.8	42.5	42.5	42.6	42.7	42.8	41.5
Motor vehicles and equipment	43.9	44.1	43.7	43.6	43.9	43.9	43.3	42.8	42.7	42.6	43.0	43.4	43.3
Instruments and related products	41.8	41.6	41.1	41.5	41.5	41.1	41.5	41.1	41.3	41.4	41.1	41.0	41.1
Miscellaneous manufacturing	39.1	39.3	39.0	39.4	39.5	39.5	39.8	39.6	39.4	39.3	39.4	39.0	39.0
Nondurable goods	40.2	40.2	40.0	40.1	40.2	40.1	40.4	40.2	40.3	40.2	40.2	40.3	40.1
<i>Overtime hours</i>	3.7	3.6	3.6	3.6	3.7	3.8	3.8	3.7	3.6	3.8	3.6	3.7	3.7
Food and kindred products	40.4	40.6	40.2	40.1	40.3	40.4	40.7	40.5	40.7	41.0	40.8	41.1	40.8
Tobacco manufactures	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Textile mill products	41.0	41.0	40.5	40.9	40.8	41.1	41.7	41.4	41.4	41.2	41.0	40.7	40.6
Apparel and other textile products	36.9	37.0	36.8	37.0	37.1	36.9	37.6	37.1	37.1	37.0	37.0	37.0	36.9
Paper and allied products	43.2	43.1	43.2	43.1	43.2	43.3	43.4	43.3	43.3	43.2	43.5	43.2	43.3
Printing and publishing	38.0	37.9	37.8	38.0	38.0	37.9	37.9	37.7	37.8	37.6	37.7	37.9	37.6
Chemicals and allied products	42.5	42.3	42.3	42.3	42.3	42.3	42.6	42.1	42.5	42.5	42.4	42.5	42.2
Petroleum and coal products	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Rubber and misc. plastics products	41.6	41.7	41.4	41.7	41.7	41.6	41.6	41.5	41.5	41.4	41.5	41.6	41.5
Leather and leather products	37.8	37.3	37.7	38.0	38.6	38.0	38.3	37.4	37.9	37.7	38.1	38.2	37.7
Transportation and public utilities	39.4	39.3	39.4	39.6	39.4	39.4	40.1	39.5	39.4	39.4	39.0	39.4	39.7
Wholesale trade	38.1	38.0	38.1	38.1	38.1	38.1	38.3	37.9	38.0	38.1	38.0	38.1	38.2
Retail trade	29.2	29.0	29.1	29.1	28.9	28.9	29.1	28.9	28.9	29.2	28.8	28.8	29.0
Finance, insurance, and real estate	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Services	32.7	32.5	32.7	32.7	32.5	32.6	32.8	32.5	32.5	32.8	32.6	32.7	32.8

¹ 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.

² 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.
^p = 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 ¹ on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

(1977 = 100)

Industry	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^P	Oct. ^P
Total private	126.3	126.3	126.8	127.4	127.2	127.6	128.7	127.6	128.1	129.2	128.5	128.8	129.4
Goods-producing	102.4	102.8	102.3	103.0	102.9	102.9	103.5	102.4	102.5	103.0	103.3	102.9	102.5
Mining	81.2	80.0	80.2	79.9	80.1	81.1	83.4	81.8	81.2	80.3	84.4	85.7	86.9
Construction	139.4	141.1	139.4	141.2	140.5	140.3	141.0	138.2	139.3	142.7	143.5	143.1	143.8
Manufacturing	96.2	96.5	96.2	96.7	96.7	96.7	97.2	96.4	96.4	96.3	96.4	95.9	95.3
Durable goods	94.6	94.9	94.6	95.2	95.0	94.9	95.2	94.3	94.0	93.8	94.0	93.3	92.4
Lumber and wood products	106.3	105.9	106.2	107.0	104.5	105.3	105.9	103.7	103.4	102.6	103.6	103.2	104.2
Furniture and fixtures	112.3	112.9	112.6	113.8	113.7	114.3	114.6	112.9	112.6	113.2	111.9	111.9	110.8
Stone, clay, and glass products	90.6	91.0	91.0	91.4	90.9	90.5	91.0	89.3	89.8	90.0	90.2	88.8	89.4
Primary metal industries	68.9	69.0	68.8	69.1	68.7	68.9	68.6	68.2	68.5	67.9	67.6	66.5	66.3
Blast furnaces and basic steel products	54.1	54.0	53.1	53.8	53.4	53.6	52.4	52.3	52.6	52.0	53.0	51.9	52.3
Fabricated metal products	91.8	92.5	92.1	93.0	92.8	92.5	92.2	91.7	90.8	90.7	90.4	90.3	90.0
Machinery, except electrical	91.9	92.1	92.5	93.0	93.7	93.4	93.9	93.7	93.8	94.0	93.2	93.1	92.1
Electrical and electronic equipment	101.0	101.4	100.2	100.2	99.9	98.8	99.7	98.4	97.8	97.6	98.0	97.9	97.4
Transportation equipment	100.8	100.8	100.3	101.0	101.0	101.5	101.2	100.5	99.5	98.6	100.5	98.4	94.6
Motor vehicles and equipment	92.7	93.6	89.9	91.8	91.1	91.7	91.1	90.2	88.1	85.7	90.1	87.2	85.1
Instruments and related products	114.8	114.8	114.5	115.3	115.6	115.0	116.4	115.8	116.1	116.9	115.8	115.8	116.3
Miscellaneous manufacturing	84.0	84.8	84.7	85.9	86.4	86.1	87.1	86.6	86.2	85.7	86.8	85.3	85.3
Nondurable goods	98.6	98.8	98.4	98.9	99.3	99.5	100.1	99.5	99.9	100.1	99.9	99.8	99.5
Food and kindred products	101.7	102.6	101.5	101.5	102.2	102.9	103.8	103.3	104.3	106.4	105.2	106.7	106.1
Tobacco manufactures	75.1	76.5	76.7	73.4	74.1	69.6	73.0	69.6	69.0	70.5	68.7	68.7	68.9
Textile mill products	80.6	80.5	79.5	80.6	80.4	81.0	82.1	81.5	81.5	81.3	80.4	79.4	79.6
Apparel and other textile products	83.8	84.4	84.2	84.9	85.5	85.4	86.8	85.4	85.2	84.9	84.9	84.3	83.7
Paper and allied products	101.9	101.9	102.1	101.7	101.9	102.3	102.4	102.3	102.3	102.7	103.4	102.3	102.9
Printing and publishing	137.3	137.3	137.4	138.3	138.4	138.5	138.2	137.8	138.3	137.7	138.3	138.7	137.7
Chemicals and allied products	99.5	99.0	99.4	99.9	100.0	100.4	100.9	100.5	101.8	101.5	101.8	101.5	101.3
Petroleum and coal products	84.1	83.5	82.7	81.2	83.3	82.2	82.9	83.5	84.3	83.2	83.4	84.3	83.9
Rubber and misc. plastics products	118.5	119.3	118.6	119.5	120.0	119.9	119.9	119.6	118.9	118.8	119.3	118.8	118.7
Leather and leather products	55.3	54.6	55.2	56.1	57.0	56.1	56.0	54.7	55.5	54.7	54.8	54.5	53.8
Service-producing	139.6	139.2	140.3	140.9	140.6	141.2	142.6	141.5	142.2	143.7	142.4	143.2	144.2
Transportation and public utilities	114.6	114.7	115.5	116.4	116.2	116.2	118.6	117.3	117.3	117.7	113.7	117.0	118.6
Wholesale trade	124.2	124.2	124.9	125.3	125.9	126.4	127.2	126.1	126.7	127.2	127.3	127.5	128.2
Retail trade	126.5	126.0	126.7	127.2	126.7	126.9	127.7	127.2	127.4	128.9	127.5	127.5	128.2
Finance, insurance, and real estate	141.6	140.6	141.2	142.1	140.8	141.8	143.8	141.9	142.7	145.0	143.3	143.7	145.4
Services	164.3	164.0	165.8	166.4	166.1	167.3	168.9	167.5	169.0	170.8	170.4	171.1	172.2

¹ 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.

^P = 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 workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1988			1989									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^P	Oct. ^P
Average hourly earnings													
Total private (in current dollars)	\$9.43	\$9.42	\$9.45	\$9.49	\$9.52	\$9.54	\$9.61	\$9.60	\$9.62	\$9.69	\$9.69	\$9.74	\$9.81
Mining	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Construction	\$13.08	\$13.10	\$13.15	\$13.18	\$13.22	\$13.26	\$13.33	\$13.32	\$13.32	\$13.42	\$13.37	\$13.38	\$13.43
Manufacturing	10.29	10.30	10.31	10.33	10.37	10.40	10.40	10.42	10.45	10.48	10.52	10.55	10.57
Excluding overtime³	9.80	9.83	9.85	9.87	9.89	9.92	9.92	9.97	9.99	10.01	10.05	10.08	10.10
Transportation and public utilities	12.41	12.39	12.36	12.45	12.48	12.50	12.52	12.54	12.54	12.61	12.57	12.66	12.76
Wholesale trade	10.14	10.06	10.11	10.19	10.18	10.21	10.36	10.28	10.33	10.44	10.39	10.46	10.56
Retail trade	6.38	6.40	6.43	6.44	6.45	6.47	6.51	6.49	6.52	6.54	6.57	6.58	6.62
Finance, insurance, and real estate	9.35	9.26	9.35	9.40	9.35	9.36	9.54	9.45	9.53	9.68	9.57	9.66	9.83
Services	9.07	9.05	9.10	9.15	9.19	9.24	9.32	9.33	9.34	9.46	9.43	9.49	9.59
Total private (in constant dollars) ⁴	4.84	4.82	4.82	4.81	4.81	4.80	4.80	4.77	4.77	4.79	4.79	4.81	(²)
Average weekly earnings													
Total private:													
In current dollars	328.16	326.87	327.92	330.25	329.39	331.04	335.39	332.16	332.85	337.21	335.27	337.98	341.39
In constant (1977) dollars ⁴	168.55	167.28	167.39	167.55	166.44	166.44	167.53	165.01	165.10	166.85	165.89	166.90	(²)

¹ 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.

² 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.

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

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

⁵ Not available.

^P = 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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a
Alabama	41.6	41.3	41.6	\$9.07	\$9.04	\$9.11	\$377.31	\$373.35	\$378.98
Birmingham	41.8	41.0	41.0	9.19	9.28	9.28	384.14	380.48	380.48
Mobile	40.7	41.7	34.6	10.66	10.75	11.61	433.86	448.28	401.71
Alaska	38.4	53.5	41.3	12.83	11.43	13.23	492.67	611.51	546.40
Arizona	41.1	40.9	41.2	9.96	9.99	10.06	409.36	408.59	414.47
Arkansas	41.5	41.1	41.5	8.04	8.26	8.28	333.66	339.49	343.62
Fayetteville-Springdale	42.9	41.2	41.5	7.17	7.45	7.53	307.59	306.94	312.50
Fort Smith	40.9	40.2	40.1	8.69	8.84	8.82	355.42	355.37	353.68
Little Rock-North Little Rock	41.3	41.9	41.8	8.48	8.83	8.90	350.22	369.98	372.02
Pine Bluff	42.9	43.5	44.9	10.60	10.49	10.56	454.74	456.32	474.14
California	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Colorado	39.7	39.9	40.8	10.44	10.49	10.47	414.47	418.55	427.18
Denver	40.0	40.1	40.6	11.23	10.92	10.96	449.20	437.89	444.98
Connecticut	42.4	41.5	42.2	10.84	11.18	11.23	459.62	463.97	473.91
Bridgeport-Milford	41.8	40.0	41.4	11.20	11.52	11.57	468.16	460.80	479.00
Hartford	42.6	41.1	42.4	11.45	12.03	12.17	487.77	494.43	516.01
New Britain	42.8	42.2	42.1	11.21	11.97	11.67	479.79	505.13	491.31
New Haven-Meriden	41.6	40.7	41.2	10.30	10.69	10.79	428.48	435.08	444.55
Stamford	39.2	41.9	41.9	12.19	11.86	11.97	477.85	496.93	501.54
Waterbury	44.2	42.6	42.3	10.00	10.45	10.27	442.00	445.17	434.42
Delaware	39.8	40.4	42.0	10.26	11.06	11.37	408.35	446.82	477.54
Wilmington	40.9	41.3	43.8	13.06	13.37	13.97	534.15	552.18	611.89
District of Columbia:									
Washington MSA	39.5	39.8	40.6	11.48	12.14	12.21	453.46	483.17	495.73
Florida	40.6	40.3	41.0	8.51	8.74	8.75	345.51	352.22	358.75
Fort Lauderdale-Hollywood-Pompano Beach	42.1	40.9	41.5	8.42	8.62	8.70	354.48	352.56	361.05
Jacksonville	41.0	41.4	41.9	9.17	9.39	9.40	375.97	388.75	393.86
Miami-Hialeah	39.2	38.8	39.6	7.36	7.45	7.35	288.51	289.06	291.06
Orlando	39.3	40.1	40.7	8.97	9.99	9.91	352.52	400.60	403.34
Pensacola	42.2	41.0	42.1	10.94	10.80	10.97	461.67	442.80	461.84
Tampa-St. Petersburg-Clearwater	40.5	40.0	40.8	8.32	8.88	8.85	336.96	355.20	361.08
West Palm Beach-Boca Raton-DeLray Beach	40.5	40.9	41.3	9.21	9.29	9.27	373.01	379.96	382.85
Georgia	41.3	41.1	41.4	8.72	8.78	8.93	360.14	360.86	369.70
Atlanta	41.1	41.0	41.7	10.16	10.28	10.55	417.58	421.48	439.94
Savannah	47.5	48.2	48.1	11.45	11.48	11.52	543.88	553.34	554.11
Hawaii	39.8	40.5	40.1	9.80	10.32	10.36	390.04	417.96	415.44
Honolulu	39.5	40.5	39.6	9.96	10.43	10.44	393.42	422.42	413.42
Idaho	36.3	39.2	40.0	10.18	10.15	10.20	369.53	397.88	408.00
Illinois	41.6	41.9	42.3	11.05	11.23	11.25	459.68	470.54	475.88
Aurora-Elgin	42.7	40.6	42.8	10.55	10.52	10.76	450.49	427.11	460.53
Bloomington-Normal	39.0	43.4	43.1	11.26	12.27	12.69	439.14	532.52	546.94
Champaign-Urbana-Rantoul	40.2	38.7	39.5	9.39	9.86	10.12	377.48	381.58	399.74
Chicago	42.4	41.5	41.3	10.76	10.88	10.96	456.22	451.52	452.65
Davenport-Rock Island-Moline	39.4	41.7	40.6	12.82	12.93	13.17	505.11	539.18	534.70
Decatur	42.5	43.1	43.0	14.31	14.77	14.89	608.18	636.59	640.27
Joliet	41.0	41.2	41.1	12.17	12.50	12.65	498.97	515.00	519.92
Kankakee	41.8	39.6	39.6	11.29	11.55	11.46	471.92	457.38	453.82
Lake County	41.0	39.6	40.4	11.68	11.74	11.82	478.88	464.90	477.53
Peoria	46.5	42.7	43.0	13.39	13.90	13.86	622.64	593.53	595.98
Rockford	43.0	41.4	41.5	11.54	11.88	11.91	496.22	491.83	494.27
Springfield	44.2	40.0	39.0	12.19	11.61	11.72	538.80	464.40	457.08
Indiana	42.3	40.7	41.7	11.48	11.61	11.65	485.60	472.53	485.81

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a
Iowa	41.8	40.0	41.4	\$10.70	\$10.89	\$11.06	\$447.26	\$435.60	\$457.88
Cedar Rapids	41.5	38.8	39.7	12.40	12.73	12.78	514.60	493.92	507.37
Des Moines	41.3	41.1	43.3	11.61	11.57	12.18	479.49	475.53	527.39
Dubuque	42.3	39.7	42.3	11.62	10.16	12.36	491.53	403.35	522.83
Sioux City	35.5	39.9	41.4	9.08	8.26	8.97	322.34	329.57	371.36
Kansas	41.0	40.8	40.4	10.33	10.57	10.59	423.53	431.26	427.84
Topeka	41.9	42.1	41.0	11.88	11.88	12.48	497.77	500.15	511.68
Wichita	40.7	41.2	40.4	10.79	11.50	11.39	439.15	473.80	460.16
Kentucky	40.7	39.6	39.6	10.20	10.31	10.20	415.14	408.28	403.92
Lexington-Fayette	39.8	39.3	39.4	10.29	10.95	10.84	409.54	430.34	427.10
Louisville	41.6	40.5	40.6	11.72	11.79	11.25	487.55	477.50	456.75
Louisiana	42.0	42.3	43.0	10.98	10.92	11.02	461.16	461.92	473.86
Baton Rouge	42.8	44.0	44.1	13.25	12.87	12.96	567.10	566.28	571.54
New Orleans	40.7	40.9	41.5	10.64	10.61	10.72	433.05	433.95	444.88
Shreveport	41.1	41.2	41.3	11.42	10.91	11.15	469.36	449.49	460.50
Maine	41.5	40.1	40.4	9.45	9.91	9.91	392.18	397.39	400.36
Lewiston-Auburn	39.1	39.5	39.2	8.23	8.20	8.54	321.79	323.90	334.77
Portland	42.1	38.1	39.7	9.48	10.92	10.85	399.11	416.05	430.75
Maryland	42.0	41.4	41.8	10.59	10.95	11.05	444.78	453.33	461.89
Baltimore MSA	42.2	41.7	41.7	11.36	11.55	11.66	479.39	481.64	486.22
Massachusetts	41.6	40.9	40.9	10.38	10.76	10.85	431.81	440.08	443.77
Boston	41.5	40.5	40.3	11.08	11.46	11.57	459.82	464.13	466.27
Springfield	42.9	41.1	41.3	9.84	9.94	10.04	422.14	408.53	414.65
Worcester	41.1	41.2	40.9	10.61	11.02	11.27	436.07	454.02	460.94
Michigan	44.0	42.2	43.3	13.52	13.50	13.82	594.88	569.70	598.41
Ann Arbor	46.8	44.7	45.1	14.57	13.88	13.98	681.88	620.44	630.50
Battle Creek	42.8	40.4	42.0	14.66	14.12	14.32	627.45	570.45	601.44
Detroit	45.0	43.0	43.6	14.57	14.54	14.84	655.65	625.22	647.02
Flint	44.7	43.4	45.0	16.91	17.42	17.53	755.88	756.03	788.85
Grand Rapids	42.1	41.1	41.7	11.42	11.58	11.81	480.78	475.94	492.48
Jackson	43.8	42.1	42.6	10.04	11.21	11.21	439.75	471.94	477.55
Kalamazoo	42.8	41.5	42.1	12.82	13.04	13.08	548.70	541.16	550.67
Lansing-East Lansing	43.8	38.1	44.5	14.63	14.69	15.35	640.79	559.69	683.07
Muskegon	41.0	41.3	41.8	11.96	12.51	12.68	490.36	516.66	530.02
Saginaw-Bay City-Midland	44.2	41.2	43.5	15.35	15.03	15.49	678.47	619.24	673.81
Minnesota	41.1	40.6	40.9	10.61	10.78	10.89	436.07	437.67	445.40
Duluth	37.7	37.2	38.0	10.99	11.34	11.27	414.32	421.85	428.26
Minneapolis-St. Paul	41.6	40.5	41.0	11.29	11.73	11.74	469.66	475.07	481.34
St. Cloud	40.2	36.0	37.1	10.29	9.98	9.84	413.66	359.28	365.06
Mississippi	40.1	40.1	40.3	7.89	7.96	8.08	316.39	319.20	325.62
Jackson	41.8	39.7	40.8	8.80	8.95	9.18	367.84	355.32	374.54
Missouri	41.2	40.7	41.4	10.26	10.46	10.55	422.71	425.72	436.77
Kansas City	41.3	40.6	40.2	11.45	11.40	11.40	472.89	462.84	458.28
St. Louis	41.6	41.1	42.4	11.93	12.31	12.48	496.29	505.94	529.15
Springfield	40.8	39.9	39.9	8.49	8.68	8.68	346.39	346.33	346.33
Montana	37.8	39.2	40.0	10.64	10.92	11.13	402.19	428.06	445.20
Nebraska	40.9	41.4	42.4	9.64	9.60	9.63	394.28	397.44	408.31
Lincoln	40.9	40.0	40.2	10.18	10.30	10.16	416.36	412.00	408.43
Omaha	41.6	42.0	43.3	10.24	10.31	10.29	425.98	433.02	445.56
Nevada	39.2	40.8	40.5	10.19	10.29	10.34	399.45	419.83	418.77
Las Vegas	40.5	42.6	42.6	12.66	12.60	12.81	512.73	536.76	545.71
New Hampshire	40.5	40.7	40.6	9.86	10.17	10.23	399.33	413.92	415.34
Manchester	39.1	40.5	41.2	10.16	10.52	10.56	397.26	426.06	435.07
Nashua	40.1	40.5	40.8	12.03	12.31	12.19	482.40	498.56	497.35
Portsmouth-Dover-Rochester	41.4	41.9	41.2	9.31	9.83	10.04	385.43	411.88	413.65

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a
New Jersey	40.9	40.5	41.0	\$10.96	\$11.42	\$11.51	\$448.26	\$462.51	\$471.91
New Mexico	39.8	38.0	38.8	8.73	8.51	8.53	347.45	323.38	330.96
Albuquerque	39.4	40.0	39.9	9.58	9.39	9.47	377.45	375.60	377.85
New York	40.0	39.8	39.9	10.52	10.78	10.78	420.80	429.04	430.12
Albany-Schenectady-Troy	40.8	40.1	40.3	11.11	11.26	11.28	453.29	451.53	454.58
Binghamton	40.5	40.2	40.7	9.90	10.12	10.07	400.95	406.82	409.85
Buffalo	43.6	42.0	42.0	12.29	12.86	13.05	535.84	540.12	548.10
Elmira	41.8	40.2	39.9	9.59	9.69	9.64	400.86	389.54	384.64
Nassau-Suffolk	39.9	40.0	39.7	11.29	11.93	11.87	450.47	477.20	471.24
New York PMSA	36.7	37.8	37.6	9.91	9.98	9.98	363.70	377.24	375.25
New York City	36.5	37.4	37.1	9.68	9.86	9.84	353.32	368.76	365.06
Niagara Falls	42.2	40.3	40.9	13.54	13.64	13.67	571.39	549.69	559.10
Orange County	38.6	38.4	38.4	8.35	8.92	8.98	322.31	342.53	344.83
Poughkeepsie	41.6	40.1	39.9	10.06	10.86	11.00	418.50	435.49	438.90
Rochester	43.9	41.9	42.7	12.42	12.64	12.66	545.24	529.62	540.58
Rockland County	34.9	39.1	40.4	10.93	8.46	8.08	381.46	330.79	326.43
Syracuse	42.1	40.4	41.2	12.16	12.22	12.09	511.94	493.69	498.11
Utica-Rome	42.2	40.3	41.1	9.76	9.89	10.05	411.87	398.57	413.06
Westchester County	39.5	40.8	41.2	11.37	11.61	11.85	449.12	473.69	488.22
North Carolina	40.7	40.7	40.7	8.18	8.43	8.45	332.93	343.10	343.92
Asheville	41.3	41.2	41.8	8.25	8.37	8.50	340.73	344.84	355.30
Charlotte-Gastonia-Rock Hill	40.7	40.8	40.4	8.61	8.88	8.94	350.43	362.30	361.18
Greensboro-Winston-Salem-High Point	40.1	39.5	39.4	9.04	9.23	9.23	362.50	364.59	363.66
Raleigh-Durham	42.3	41.0	41.7	9.31	9.48	9.59	393.81	388.68	399.90
North Dakota	38.5	39.8	39.8	8.41	8.84	9.03	323.79	351.83	359.39
Fargo-Moorhead	40.8	39.4	42.6	8.55	8.90	9.13	348.84	350.66	388.94
Ohio	43.3	42.1	42.8	12.05	12.23	12.34	521.77	514.88	528.15
Akron	43.2	42.3	42.7	11.34	11.37	11.46	489.89	480.95	489.34
Canton	42.6	42.0	41.7	11.44	11.82	11.84	487.34	496.44	493.73
Cincinnati	43.0	43.2	43.4	11.25	11.59	11.57	483.75	500.69	502.14
Cleveland	43.2	42.2	43.0	11.91	11.87	12.06	514.51	500.91	518.58
Columbus	41.4	41.3	41.6	11.63	11.99	12.10	481.48	495.19	503.36
Dayton-Springfield	43.6	41.8	42.7	12.67	12.72	12.99	552.41	531.70	554.67
Toledo	44.6	43.3	43.6	13.15	13.32	13.31	586.49	576.76	580.32
Youngstown-Warren	43.4	42.2	42.1	13.59	13.98	14.04	589.81	589.96	591.08
Oklahoma	40.9	41.7	42.0	10.40	10.47	10.62	425.36	436.60	446.04
Oklahoma City	41.9	43.2	43.6	11.53	11.31	11.31	483.11	488.59	493.12
Tulsa	41.8	41.7	42.2	10.78	10.75	10.82	450.60	448.28	456.60
Oregon	39.6	39.7	39.5	10.45	10.61	10.91	413.82	421.22	430.95
Eugene-Springfield	37.6	39.6	39.2	10.51	10.69	10.90	395.18	423.32	427.28
Portland	39.9	39.5	40.0	10.93	11.01	11.17	436.11	434.90	446.80
Salem	39.9	41.1	37.7	8.25	8.28	8.69	329.18	340.31	327.61
Pennsylvania	41.4	40.5	40.7	10.37	10.56	10.65	429.32	427.68	433.46
Allentown-Bethlehem	40.4	39.2	39.4	10.60	10.66	10.64	428.24	417.87	419.22
Altoona	40.2	39.3	39.2	8.93	9.18	9.19	358.99	360.77	360.25
Beaver County	42.8	42.8	43.4	10.73	10.68	10.81	459.24	457.10	469.15
Erie	43.5	42.0	43.3	10.55	10.79	10.78	458.93	453.18	466.77
Harrisburg-Lebanon-Carlisle	40.2	39.5	40.1	9.70	9.96	10.25	389.94	393.42	411.03
Johnstown	39.5	39.2	39.0	8.59	8.42	8.50	339.31	330.06	331.50
Lancaster	41.0	40.5	40.9	10.21	10.55	10.71	418.61	427.28	438.04
Philadelphia PMSA	40.5	40.3	40.1	11.44	11.62	11.71	463.32	468.29	469.57
Pittsburgh	42.9	41.8	41.6	11.41	11.27	11.31	489.49	471.09	470.50

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^p	Sept. 1988	Aug. 1989	Sept. 1989 ^p	Sept. 1988	Aug. 1989	Sept. 1989 ^p
Pennsylvania-Continued									
Reading	41.4	41.3	41.2	\$10.85	\$11.10	\$11.19	\$449.19	\$458.43	\$461.03
Scranton-Wilkes-Barre	39.8	38.7	38.9	9.01	9.22	9.33	358.60	356.81	362.94
Williamsport	41.0	39.5	39.5	9.14	9.55	9.58	374.74	377.23	378.41
York	42.9	41.6	41.9	9.94	10.33	10.34	426.43	429.73	433.25
Rhode Island									
Pawtucket-Woonsocket-Attleboro	39.6	39.2	39.5	8.63	9.10	9.14	341.75	356.72	361.03
Providence	39.7	39.3	39.7	8.17	8.77	8.80	324.35	344.66	349.36
Providence	39.7	38.5	38.7	8.61	8.75	8.77	341.82	336.88	339.40
South Carolina									
Charleston	41.7	40.9	41.0	8.37	8.68	8.72	349.03	355.01	357.52
Columbia	41.5	40.9	40.8	9.25	9.49	9.55	383.88	388.14	389.64
Greenville-Spartanburg	41.4	41.2	41.3	8.48	8.93	8.96	351.07	367.92	370.05
Greenville-Spartanburg	41.8	41.1	41.2	8.31	8.68	8.70	347.36	356.75	358.44
South Dakota									
Sioux Falls	42.8	40.0	42.2	8.04	8.10	8.25	344.11	324.00	348.15
Sioux Falls	44.3	44.3	46.3	8.12	8.35	8.48	359.72	369.91	392.62
Tennessee									
Chattanooga	41.3	41.0	41.5	8.95	9.16	9.21	369.64	375.56	382.22
Johnson City-Kingsport-Bristol	43.4	42.0	41.6	8.30	8.41	8.48	360.22	353.22	352.77
Knoxville	43.7	41.9	42.1	9.49	9.58	9.77	414.71	401.40	411.32
Memphis	40.4	38.7	39.4	8.88	9.12	9.26	358.75	352.94	364.84
Nashville	43.2	42.6	44.6	9.10	9.31	9.38	393.12	396.61	418.35
Nashville	41.7	41.2	42.0	10.46	10.17	10.28	436.18	419.00	431.76
Texas									
Dallas	41.5	41.5	41.9	10.01	10.24	10.25	415.42	424.96	429.48
Ft. Worth-Arlington	42.0	42.0	41.8	9.97	10.31	10.36	418.74	433.02	433.05
Houston	41.9	40.7	41.6	10.71	11.00	11.18	448.75	447.70	465.09
San Antonio	42.9	43.4	44.0	11.37	11.89	11.90	487.77	516.03	523.60
San Antonio	39.3	40.3	40.8	7.41	7.56	7.52	291.21	304.67	306.82
Utah									
Salt Lake City-Ogden	40.9	40.3	39.5	10.00	10.23	10.21	409.00	412.27	403.30
Salt Lake City-Ogden	41.0	40.6	40.6	9.89	10.19	10.04	405.49	413.71	407.62
Vermont									
Burlington	41.8	40.7	41.2	9.65	10.00	10.00	403.37	407.00	412.00
Burlington	41.3	40.8	40.6	9.99	10.40	10.50	412.59	424.32	426.30
Virginia									
Bristol	41.4	40.9	41.3	9.34	9.62	9.70	386.68	393.46	400.61
Charlottesville	42.6	41.2	40.7	7.72	7.90	8.03	328.87	325.48	326.82
Danville	40.9	42.8	42.6	7.84	8.14	8.24	320.66	348.39	351.02
Lynchburg	41.7	40.2	40.9	8.55	8.81	8.58	356.54	354.16	350.92
Northern Virginia	41.5	41.7	41.8	8.76	9.29	9.37	363.54	387.39	391.67
Richmond-Petersburg	40.1	40.4	41.3	10.66	11.10	11.28	427.47	448.44	465.86
Roanoke	41.9	41.6	42.3	12.08	12.56	12.88	506.15	522.50	544.82
Roanoke	42.7	40.8	41.6	9.48	9.89	10.00	404.80	403.51	416.00
Washington									
Seattle	39.5	40.2	39.9	11.86	12.18	12.33	468.47	489.64	491.97
West Virginia									
Charleston	40.9	40.7	41.2	10.80	11.12	11.38	441.72	452.58	468.86
Huntington-Ashland	44.2	43.9	44.8	13.77	14.15	14.14	608.63	621.19	633.47
Parkersburg-Marietta	41.1	39.8	39.7	12.28	12.57	12.60	504.71	500.29	500.22
Wheeling	42.4	41.5	41.9	12.61	13.79	14.15	534.66	572.29	592.89
Wheeling	40.5	40.8	43.5	12.02	12.34	12.82	486.81	503.47	557.67
Wisconsin									
Appleton-Oshkosh	41.9	41.3	42.3	10.59	10.65	10.69	443.72	439.85	452.19
Eau Claire	43.3	43.0	44.1	11.32	11.68	11.83	490.16	502.24	521.70
Green Bay	41.9	43.5	43.5	10.73	10.81	10.73	449.59	470.24	466.76
Janesville-Beloit	42.4	40.2	41.7	11.42	11.21	11.74	484.21	450.64	489.56
Kenosha	40.1	38.6	40.3	12.50	12.67	12.46	501.25	489.06	502.14
La Crosse	40.0	42.7	42.4	12.74	11.64	11.51	509.60	497.03	488.02
Madison	40.7	39.8	41.5	9.01	9.63	9.45	366.71	383.27	392.18
Milwaukee	42.7	41.3	42.4	9.75	10.10	9.95	416.33	417.13	421.88
Racine	41.9	41.1	41.6	11.57	11.53	11.55	484.78	473.88	480.48
Wausau	39.9	40.7	40.5	10.75	11.08	11.02	428.93	450.96	446.31
Wausau	42.6	42.7	43.6	10.06	10.23	10.22	428.56	436.82	445.59
Wyoming									
Wyoming	38.6	38.7	39.0	10.06	10.25	10.36	388.32	396.68	404.04
Puerto Rico									
Puerto Rico	39.4	39.5	39.8	5.61	5.74	5.68	221.03	226.73	226.06
Virgin Islands									
Virgin Islands	41.2	41.6	(¹)	10.08	10.72	(¹)	415.30	445.95	(¹)

¹ Not available.

^p = preliminary.

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

publication. All State and area data have been adjusted to March 1988 benchmarks. Data for the Virgin Islands for August 1989 are preliminary.

**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) ¹			Percent change		
	Aug. 1989 ^r	Sept. 1989 ^r	Oct. 1989 ^p	Oct. 1988 to Oct. 1989 ^p	Aug. 1989 to Sept. 1989 ^r	Sept. 1989 to Oct. 1989 ^p
Total	201,666	202,788	203,934	2.6	0.6	0.6
Private sector	166,288	166,611	167,667	2.5	.2	.6
Mining	1,632	1,668	1,691	7.0	2.2	1.4
Construction	10,563	10,458	10,599	3.3	-1.0	1.3
Manufacturing	41,876	41,721	41,558	-4	-4	-4
Durable goods	24,897	24,759	24,611	-1.4	-6	-6
Nondurable goods	16,980	16,962	16,946	1.1	-.1	-.1
Transportation and public utilities	11,419	11,702	11,847	3.1	2.5	1.2
Wholesale trade	12,357	12,391	12,475	3.5	.3	.7
Retail trade	29,392	29,463	29,578	1.4	.2	.4
Finance, insurance, and real estate	12,749	12,715	12,936	2.8	-.3	1.7
Services	46,299	46,493	46,984	5.0	.4	1.1
Government	35,377	36,177	36,266	3.1	2.3	.2

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

^p = preliminary.

^r = 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 adjusted¹

(1977 = 100)

Item	Annual average		Quarterly index										
	1987	1988 ²	1987				1988				1989		
			I	II	III	IV	I'	II'	III'	IV'	I'	II'	III'
Business sector													
Output per hour of all persons	111.1	113.0	110.0	110.7	111.7	112.5	113.2	112.6	113.4	113.5	113.8	114.2	114.6
Output	133.4	140.0	130.4	132.2	134.4	136.7	138.2	139.3	140.7	141.9	143.6	144.4	145.4
Hours	120.1	123.9	118.6	119.5	120.3	121.5	122.1	123.8	124.0	125.0	126.2	126.4	126.9
Compensation per hour	191.0	200.2	188.3	189.5	191.8	195.1	196.4	199.1	201.9	204.5	206.9	210.4	212.8
Real compensation per hour	101.9	102.5	101.9	101.4	101.7	102.5	102.3	102.5	102.8	103.0	102.8	102.9	103.5
Unit labor costs	171.9	177.1	171.2	171.3	171.6	173.5	173.5	176.9	178.0	180.2	181.9	184.1	185.7
Unit nonlabor payments	166.3	170.9	162.6	166.5	168.9	167.2	168.9	168.8	171.8	173.7	174.7	176.3	176.1
Implicit price deflator	170.0	174.9	168.2	169.6	170.7	171.3	171.9	174.1	175.8	177.9	179.4	181.4	182.3
Nonfarm business sector													
Output per hour of all persons	108.9	111.1	107.7	108.6	109.5	110.2	111.0	110.5	111.5	112.0	111.6	111.9	112.5
Output	133.1	140.3	130.0	132.0	134.1	136.4	138.0	139.5	141.1	142.8	143.6	144.6	145.7
Hours	122.2	126.3	120.7	121.5	122.4	123.7	124.3	126.2	126.6	127.5	128.6	129.2	129.5
Compensation per hour	189.8	198.7	187.1	188.3	190.5	193.8	195.0	197.5	200.2	203.0	205.5	208.3	211.0
Real compensation per hour	101.2	101.8	101.3	100.7	101.0	101.8	101.5	101.7	101.9	102.3	102.1	101.9	102.7
Unit labor costs	174.2	178.8	173.6	173.4	173.9	175.8	175.7	178.7	179.6	181.3	184.1	186.1	187.6
Unit nonlabor payments	167.7	172.2	164.1	167.6	170.3	168.7	170.3	169.8	172.1	176.3	174.6	176.5	177.2
Implicit price deflator	172.0	176.5	170.3	171.4	172.6	173.4	173.8	175.6	177.0	179.6	180.8	182.8	184.0
Manufacturing													
Output per hour of all persons	132.9	136.5	131.5	133.3	134.3	134.7	135.5	136.3	137.8	138.6	139.4	140.7	141.2
Output	130.1	138.1	127.2	128.7	131.1	133.5	135.0	136.9	139.3	141.1	142.2	143.4	143.9
Hours	97.9	101.2	96.7	96.6	97.7	99.1	99.7	100.5	101.1	101.8	102.0	101.9	101.9
Compensation per hour	189.2	196.0	188.8	189.0	190.4	191.7	194.3	195.3	197.4	200.2	201.9	203.2	206.2
Real compensation per hour	100.9	100.4	102.2	101.1	100.9	100.7	101.2	100.6	100.5	100.8	100.3	99.4	100.3
Unit labor costs	142.3	143.6	143.5	141.8	141.8	142.3	143.4	143.3	143.2	144.4	144.8	144.4	146.0
Durable goods													
Output per hour of all persons	139.5	142.8	138.7	140.3	141.1	141.8	142.5	143.3	144.4	144.9	145.6	147.7	148.4
Output	136.0	145.0	133.3	134.2	136.5	139.9	141.3	144.0	146.4	148.3	149.1	150.3	150.3
Hours	97.5	101.5	96.1	95.7	96.7	98.6	99.2	100.5	101.4	102.3	102.4	101.7	101.3
Compensation per hour	187.4	192.6	188.3	187.8	188.9	189.8	192.6	192.4	193.9	196.9	198.8	199.6	202.8
Real compensation per hour	100.0	98.7	102.0	100.5	100.2	99.7	100.3	99.1	98.7	99.2	98.8	97.7	98.7
Unit labor costs	134.3	134.9	135.8	133.9	133.9	133.8	135.2	134.3	134.3	135.9	136.5	135.1	136.7
Nondurable goods													
Output per hour of all persons	123.2	127.0	121.0	123.1	124.3	124.3	125.1	125.9	128.0	129.0	130.0	130.3	130.7
Output	121.4	127.8	118.0	120.5	123.1	124.0	125.6	126.4	128.8	130.3	131.8	133.1	134.2
Hours	98.6	100.6	97.6	97.9	99.0	99.8	100.4	100.4	100.6	101.0	101.3	102.2	102.7
Compensation per hour	192.5	201.8	189.9	191.5	193.3	195.2	197.5	200.5	203.4	205.7	207.2	209.7	212.5
Real compensation per hour	102.7	103.4	102.8	102.5	102.5	102.6	102.9	103.3	103.5	103.6	103.0	102.6	103.4
Unit labor costs	156.2	158.9	156.9	155.6	155.5	157.0	157.8	159.3	158.9	159.4	159.3	160.9	162.6
Nonfinancial corporations													
Output per all-employee hour	112.1	114.7	110.4	111.6	113.0	113.5	114.6	114.7	115.1	114.9	114.5	114.5	(³)
Output	135.3	143.5	131.5	133.9	136.9	138.9	141.2	142.8	144.3	145.4	145.8	146.5	(³)
Hours	120.8	125.1	119.1	120.0	121.1	122.4	123.2	124.5	125.4	126.5	127.4	128.0	(³)
Compensation per hour	186.1	194.1	183.7	184.8	186.9	189.5	190.9	193.1	195.5	197.8	200.2	202.8	(³)
Real compensation per hour	99.3	99.4	99.4	98.9	99.1	99.6	99.4	99.5	99.5	99.6	99.5	99.3	(³)
Total unit costs	171.2	174.6	171.0	170.8	170.8	172.1	171.9	173.6	175.2	177.5	180.4	182.9	(³)
Unit labor costs	166.1	169.3	166.3	165.5	165.3	167.0	166.6	168.4	169.9	172.1	174.9	177.1	(³)
Unit nonlabor costs	186.4	190.3	185.0	186.3	186.9	187.2	187.8	188.9	191.0	193.3	196.9	200.1	(³)
Unit profits	123.0	128.8	118.1	122.5	129.3	122.0	127.0	129.1	127.5	131.6	119.6	116.6	(³)
Implicit price deflator	165.4	169.1	164.7	165.0	165.8	166.1	166.5	168.2	169.5	172.0	173.1	175.0	(³)

¹ This table shows revisions in hours which reflect the incorporation of the 1988 Hours at Work Survey. Also affected are series which depend on the hours measure—productivity, hourly compensation, real hourly compensation, and, to a lesser extent, unit labor costs and unit nonlabor payments.

² Not available.

³ =preliminary.

=revised.

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

**PRODUCTIVITY DATA
SEASONALLY ADJUSTED**

**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 rates¹

Item	Percent change from											
	Previous quarter						Same quarter, previous year					
	II 1988'	III 1988'	IV 1988'	I 1989'	II 1989'	III 1989 ^p	II 1988'	III 1988'	IV 1988'	I 1989'	II 1989'	III 1989 ^p
Business sector												
Output per hour of all persons	-2.1	3.1	0.2	1.1	1.6	1.2	1.7	1.5	0.9	0.5	1.5	1.0
Output	3.3	4.0	3.4	4.8	2.3	3.0	5.4	4.7	3.8	3.9	3.6	3.4
Hours	5.5	.9	3.2	3.7	.6	1.7	3.6	3.1	2.9	3.3	2.1	2.3
Compensation per hour	5.7	5.8	5.2	4.8	6.8	4.8	5.1	5.3	4.8	5.4	5.6	5.4
Real compensation per hour	1.1	1.0	.7	-.6	.4	2.3	1.1	1.1	.4	.6	.4	.7
Unit labor costs	8.0	2.6	5.0	3.7	5.1	3.5	3.3	3.7	3.9	4.8	4.1	4.3
Unit nonlabor payments	-2	7.1	4.6	2.4	3.5	-.4	1.4	1.7	3.9	3.4	4.4	2.5
Implicit price deflator	5.1	4.1	4.8	3.3	4.6	2.1	2.6	3.0	3.9	4.3	4.2	3.7
Nonfarm business sector												
Output per hour of all persons	-1.6	3.3	1.9	-1.3	1.1	2.1	1.8	1.7	1.6	.6	1.3	.9
Output	4.4	4.6	4.8	2.4	2.8	3.1	5.7	5.2	4.7	4.1	3.7	3.3
Hours	6.1	1.2	2.8	3.7	1.7	1.0	3.8	3.4	3.0	3.5	2.4	2.3
Compensation per hour	5.4	5.4	5.9	4.9	5.6	5.3	4.9	5.1	4.8	5.4	5.5	5.4
Real compensation per hour .....	.8	.7	1.4	-.5	-.7	2.9	1.0	.9	.4	.6	.2	.7
Unit labor costs	7.1	2.0	3.8	6.2	4.5	3.2	3.1	3.3	3.1	4.8	4.1	4.4
Unit nonlabor payments	-1.0	5.4	10.1	-3.7	4.2	1.6	1.3	1.1	4.5	2.6	3.9	2.9
Implicit price deflator	4.3	3.2	5.9	2.8	4.4	2.6	2.5	2.5	3.6	4.0	4.1	3.9
Manufacturing												
Output per hour of all persons	2.5	4.7	2.2	2.4	3.7	1.4	2.3	2.7	2.9	2.9	3.2	2.4
Output	5.8	7.1	5.1	3.1	3.5	1.3	6.4	6.2	5.6	5.3	4.7	3.3
Hours	3.2	2.4	2.9	.7	-.2	-.1	4.0	3.5	2.7	2.3	1.4	.8
Compensation per hour	2.2	4.3	5.7	3.5	2.7	6.0	3.4	3.7	4.4	3.9	4.0	4.5
Real compensation per hour	-2.3	-.4	1.2	-1.9	-3.5	3.5	-.5	-.4	.1	-.8	-1.1	-.2
Unit labor costs	-3	-3	3.5	1.0	-1.0	4.5	1.1	1.0	1.5	1.0	.8	2.0
Durable goods												
Output per hour of all persons	2.3	3.2	1.5	1.9	5.9	1.7	2.1	2.3	2.2	2.2	3.1	2.7
Output	7.7	6.8	5.3	2.2	3.2	.1	7.3	7.2	6.0	5.5	4.4	2.7
Hours	5.3	3.4	3.8	.3	-2.5	-1.6	5.0	4.8	3.7	3.2	1.2	.0
Compensation per hour	-.4	3.3	6.3	3.8	1.7	6.6	2.4	2.6	3.8	3.2	3.8	4.6
Real compensation per hour	-4.8	-1.3	1.8	-1.5	-4.4	4.1	-1.4	-1.4	-.5	-1.5	-1.4	-.1
Unit labor costs	-2.6	.1	4.8	1.8	-4.0	4.7	.3	.3	1.5	1.0	.6	1.8
Nondurable goods												
Output per hour of all persons	2.5	6.9	3.2	3.3	.7	1.2	2.3	2.9	3.8	3.9	3.5	2.1
Output	2.7	7.7	4.8	4.7	4.0	3.3	4.9	4.6	5.0	5.0	5.3	4.2
Hours .....	.2	.8	1.6	1.4	3.3	2.1	2.6	1.6	1.2	1.0	1.8	2.1
Compensation per hour	6.2	5.8	4.6	2.9	4.9	5.5	4.7	5.2	5.4	4.9	4.6	4.5
Real compensation per hour	1.6	1.0	.1	-2.4	-1.4	3.0	.8	1.0	1.0	.1	-.6	-.2
Unit labor costs	3.7	-1.0	1.4	-.4	4.2	4.2	2.4	2.2	1.5	.9	1.0	2.3
Nonfinancial corporations												
Output per all-employee hour .....	.4	1.3	-.4	-1.7	.1	(²)	2.8	1.8	1.3	-.1	-.2	(²)
Output	4.6	4.3	3.2	1.0	2.0	(²)	6.6	5.4	4.7	3.2	2.6	(²)
Hours	4.2	2.9	3.6	2.7	1.8	(²)	3.8	3.5	3.4	3.4	2.8	(²)
Compensation per hour	4.9	4.9	4.8	4.9	5.4	(²)	4.5	4.6	4.4	4.9	5.0	(²)
Real compensation per hour .....	.3	.2	.4	-.5	-.9	(²)	.6	.4	.0	.1	-.2	(²)
Total unit costs	3.9	3.9	5.2	6.9	5.7	(²)	1.6	2.6	3.1	5.0	5.4	(²)
Unit labor costs	4.5	3.6	5.3	6.6	5.3	(²)	1.7	2.8	3.1	5.0	5.2	(²)
Unit nonlabor costs	2.5	4.6	4.9	7.5	6.7	(²)	1.4	2.2	3.3	4.9	5.9	(²)
Unit profits	6.8	-4.7	13.3	-31.7	-9.7	(²)	5.4	-1.3	7.9	-5.8	-9.7	(²)
Implicit price deflator	4.2	3.1	5.9	2.8	4.3	(²)	2.0	2.2	3.5	4.0	4.0	(²)

¹ This table shows revisions in hours which reflect the incorporation of the 1988 Hours at Work Survey. Also affected are series which depend on the hours measure--productivity, hourly compensation, real hourly compensation, and, to a lesser extent, unit labor costs and unit nonlabor payments.

² Not available.

^p =preliminary.

=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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
Alabama	1,888.0	1,954.6	1,956.6	129.5	148.6	134.7	6.9	7.6	6.9
Birmingham	441.1	453.6	456.3	25.8	29.4	26.7	5.8	6.5	5.8
Huntsville	134.2	140.1	140.6	6.7	7.8	6.9	5.0	5.6	4.9
Mobile	207.2	212.9	212.1	18.4	19.3	17.4	8.9	9.0	8.2
Montgomery	136.3	139.8	139.9	8.3	10.4	9.2	6.1	7.4	6.5
Tuscaloosa	70.5	72.5	74.1	3.8	3.9	3.5	5.4	5.4	4.7
Alaska	242.2	249.8	241.8	21.0	14.7	17.6	8.7	5.9	7.3
Arizona	1,679.6	1,717.3	1,704.9	116.8	109.6	99.7	7.0	6.4	5.8
Phoenix	1,043.3	1,066.7	1,054.6	59.4	54.0	51.2	5.7	5.1	4.9
Tucson	316.9	324.5	322.7	17.8	17.0	17.0	5.6	5.2	5.3
Arkansas	1,121.3	1,170.6	1,153.0	77.4	69.9	63.9	6.9	6.0	5.5
Fayetteville-Springdale	62.1	64.2	63.7	2.6	1.9	1.8	4.1	3.0	2.8
Fort Smith	92.8	93.5	91.5	6.4	6.7	6.3	6.9	7.2	6.9
Little Rock-North Little Rock	263.7	276.5	272.3	15.7	15.3	14.6	6.0	5.5	5.4
Pine Bluff	37.6	39.2	38.6	3.0	2.6	2.3	8.0	6.5	6.0
California¹	13,999.0	14,455.4	14,409.5	701.1	673.9	714.9	5.0	4.7	5.0
Anaheim-Santa Ana	1,344.4	1,393.0	1,381.7	40.9	39.8	44.5	3.0	2.9	3.2
Bakersfield	226.3	231.2	231.1	21.5	20.6	23.6	9.5	8.9	10.2
Fresno	335.9	323.3	342.2	27.4	24.9	26.3	8.2	7.7	7.7
Los Angeles-Long Beach	4,061.5	4,174.8	4,146.8	194.2	185.7	195.9	4.8	4.4	4.7
Modesto	163.2	172.4	170.0	14.9	13.1	13.8	9.1	7.6	8.1
Oakland	1,064.8	1,117.4	1,119.0	47.5	45.4	47.0	4.5	4.1	4.2
Oxnard-Ventura	350.5	370.1	365.2	19.6	20.3	20.7	5.6	5.5	5.7
Riverside-San Bernardino	930.4	958.7	959.9	57.3	59.3	61.4	6.2	6.2	6.4
Sacramento	706.8	742.1	735.6	34.9	31.7	35.2	4.9	4.3	4.8
San Diego	1,125.6	1,179.1	1,172.5	48.9	45.5	49.1	4.3	3.9	4.2
San Francisco	873.9	905.7	900.2	30.7	28.9	29.3	3.5	3.2	3.3
San Jose	835.1	859.4	846.1	31.2	30.4	32.1	3.7	3.5	3.8
Santa Barbara-Santa Maria-Lompoc	177.1	181.0	180.3	7.5	6.8	7.5	4.2	3.7	4.2
Santa Rosa-Petaluma	195.5	199.6	205.5	8.3	7.9	8.3	4.2	4.0	4.0
Stockton	203.0	201.3	201.0	15.7	14.2	15.1	7.8	7.1	7.5
Vallejo-Fairfield-Napa	194.0	204.9	204.9	9.9	9.8	9.9	5.1	4.8	4.8
Colorado	1,682.3	1,687.8	1,675.7	87.0	83.7	71.3	5.2	5.0	4.3
Boulder-Longmont	131.6	129.4	130.3	5.4	5.0	4.3	4.1	3.9	3.3
Denver	871.8	869.8	863.5	43.4	42.0	35.3	5.0	4.8	4.1
Connecticut	1,770.5	1,831.8	1,785.2	47.2	67.9	61.0	2.7	3.7	3.4
Bridgeport-Milford	233.7	239.1	234.7	8.0	11.5	10.4	3.4	4.8	4.4
Hartford	428.4	442.5	430.3	10.6	14.9	12.7	2.5	3.4	3.0
New Britain	73.5	74.6	73.1	2.1	3.3	2.8	2.9	4.4	3.8
New Haven-Meriden	278.1	292.7	286.5	7.3	10.6	9.8	2.6	3.6	3.4
Stamford	116.9	121.5	117.1	2.1	3.0	3.0	1.8	2.5	2.6
Waterbury	101.6	104.8	102.2	3.3	4.9	4.5	3.3	4.7	4.4
Delaware	349.4	366.2	362.4	10.5	11.6	11.7	3.0	3.2	3.2
Wilmington	299.5	304.9	305.0	10.9	10.6	11.3	3.7	3.5	3.7
District of Columbia	335.1	331.0	326.7	18.6	16.4	15.9	5.5	5.0	4.9
Washington	2,189.5	2,310.6	2,282.0	69.9	61.3	64.2	3.2	2.7	2.8
Florida¹	6,134.7	6,309.9	6,197.8	310.5	342.1	355.0	5.1	5.4	5.7
Daytona Beach	152.7	156.8	152.3	6.6	7.8	7.7	4.3	4.9	5.1
Fort Lauderdale-Hollywood-Pompano Beach	636.0	648.6	634.6	25.5	31.1	32.8	4.0	4.8	5.2
Fort Myers-Cape Coral	141.7	148.7	145.6	5.7	5.5	5.8	4.0	3.7	4.0
Jacksonville	466.5	470.2	464.5	24.8	23.2	24.9	5.3	4.9	5.4
Melbourne-Titusville-Palm Bay	186.5	194.1	189.1	8.1	9.8	9.5	4.3	5.0	5.0
Miami-Hialeah	949.8	975.3	954.2	50.6	59.1	60.2	5.3	6.1	6.3
Orlando	588.2	604.6	596.7	26.6	27.9	30.9	4.5	4.6	5.2
Pensacola	151.3	149.8	147.1	9.8	8.4	8.8	6.5	5.6	6.0
Sarasota	122.6	126.7	123.1	4.2	4.2	4.6	3.5	3.3	3.7
Tallahassee	130.7	133.4	132.1	4.5	6.3	5.7	3.5	4.7	4.3
Tampa-St. Petersburg-Clearwater	993.6	1,017.4	996.3	43.6	46.7	49.6	4.4	4.6	5.0
West Palm Beach-Boca Raton-Delray Beach	409.5	431.7	426.9	23.0	27.4	26.8	5.6	6.3	6.3

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a	Sept. 1988	Aug. 1989	Sept. 1989 ^a
Georgia	3,231.4	3,288.3	3,288.5	183.5	184.8	202.9	5.7	5.6	6.2
Athens	74.2	76.7	77.1	3.2	3.3	4.3	4.2	4.4	5.6
Atlanta	1,529.1	1,551.1	1,554.4	83.2	82.1	88.8	5.4	5.3	5.7
Augusta	183.2	184.9	184.3	11.1	9.7	10.4	6.0	5.3	5.6
Columbus	103.1	103.5	104.0	6.6	5.7	6.6	6.4	5.5	6.4
Macon-Warner Robins	133.4	135.4	135.8	6.2	6.6	7.6	4.7	4.9	5.6
Savannah	115.8	114.6	114.6	6.9	6.1	6.5	6.0	5.3	5.7
Hawaii	510.1	534.6	523.7	14.5	9.7	11.6	2.8	1.8	2.2
Honolulu	376.1	393.2	385.8	9.6	6.5	8.0	2.6	1.7	2.1
Idaho	474.9	482.9	473.6	20.4	23.6	18.8	4.3	4.9	4.0
Boise City	101.8	107.2	104.3	3.0	3.2	3.1	3.0	3.0	3.0
Illinois¹	5,772.3	5,984.7	5,974.1	310.3	347.5	330.4	5.4	5.8	5.5
Aurora-Elgin	179.8	189.1	189.1	7.4	9.3	9.1	4.1	4.9	4.8
Bloomington-Normal	69.3	72.0	74.4	2.8	2.7	2.6	4.0	3.7	3.4
Champaign-Urbana-Rantoul	88.0	88.2	92.2	2.7	3.4	3.1	3.0	3.8	3.4
Chicago	3,185.6	3,299.3	3,284.7	164.3	184.6	179.4	5.2	5.6	5.5
Davenport-Rock Island-Moline	179.5	181.3	179.2	11.4	10.9	11.3	6.3	6.0	6.3
Decatur	57.7	59.8	59.7	3.9	4.4	4.1	6.8	7.3	7.0
Joliet	192.5	197.4	197.5	10.6	12.4	11.3	5.5	6.3	5.7
Kankakee	43.7	45.7	45.5	3.3	3.2	3.0	7.7	7.0	6.7
Lake County	280.6	294.4	297.8	9.4	10.7	10.4	3.3	3.6	3.5
Peoria	155.5	162.7	160.5	8.3	9.4	8.7	5.4	5.8	5.4
Rockford	146.5	152.1	149.9	8.1	8.9	8.2	5.5	5.9	5.5
Springfield	108.5	117.5	113.4	4.6	4.9	4.8	4.3	4.2	4.2
Indiana	2,822.9	2,931.3	2,907.2	148.2	121.6	135.8	5.3	4.1	4.7
Anderson	59.9	61.3	61.0	3.6	3.4	2.9	6.0	5.5	4.8
Bloomington	63.0	68.3	70.2	2.0	2.0	1.8	3.2	3.0	2.5
Elkhart-Goshen	96.7	101.8	99.8	3.4	4.8	5.0	3.5	4.7	5.0
Evansville	144.1	149.0	146.9	8.3	6.4	7.1	5.8	4.3	4.8
Fort Wayne	199.1	208.8	205.5	9.3	8.5	10.2	4.7	4.1	5.0
Gary-Hammond	257.0	268.1	267.1	15.7	11.8	13.5	6.1	4.4	5.0
Indianapolis	676.7	708.3	696.6	33.0	24.2	27.4	4.9	3.4	3.9
Lafayette-West Lafayette	68.1	65.9	69.0	1.7	1.8	2.1	2.5	2.8	3.0
Muncie	61.2	59.5	62.4	3.9	2.6	3.0	6.3	4.3	4.9
South Bend-Mishawaka	132.9	135.5	135.9	6.8	5.4	6.1	5.1	4.0	4.5
Terre Haute	59.4	60.2	61.6	3.5	2.5	2.7	5.9	4.2	4.3
Iowa	1,507.1	1,516.7	1,493.9	57.0	60.4	58.8	3.8	4.0	3.9
Cedar Rapids	94.9	95.0	94.3	3.0	2.9	3.6	3.1	3.1	3.8
Des Moines	231.6	233.4	231.1	8.4	7.5	8.8	3.6	3.2	3.8
Dubuque	44.1	43.5	43.3	1.9	4.2	2.1	4.3	9.6	4.8
Sioux City	59.9	60.5	59.1	2.7	2.6	2.3	4.4	4.3	3.6
Waterloo-Cedar Falls	70.4	69.1	70.7	3.2	3.1	3.6	4.5	4.5	5.1
Kansas	1,264.0	1,280.3	1,260.1	59.3	52.4	54.1	4.7	4.1	4.3
Topeka	90.6	91.8	89.7	4.5	4.3	4.5	5.0	4.7	5.0
Wichita	251.6	259.8	256.8	12.7	11.3	11.3	5.1	4.4	4.4
Kentucky	1,710.4	1,762.7	1,722.7	111.4	99.3	93.6	6.5	5.6	5.4
Lexington-Fayette	195.5	205.5	200.8	7.5	7.0	5.9	3.8	3.4	2.9
Louisville	502.0	526.1	519.1	26.9	27.7	38.2	5.4	5.3	7.4
Owensboro	43.8	44.7	43.3	3.1	2.8	2.0	7.1	6.2	4.6
Louisiana	1,909.6	1,907.7	1,917.3	197.8	158.7	145.5	10.4	6.3	7.6
Alexandria	59.7	60.1	60.5	5.6	5.2	4.6	9.4	8.6	7.6
Baton Rouge	271.5	267.7	271.5	25.0	20.0	17.5	9.2	7.5	6.4
Houma-Thibodaux	68.6	69.8	69.1	6.8	5.4	4.7	10.0	7.8	6.8
Lafayette	99.7	99.7	99.7	9.3	6.9	6.5	9.3	6.9	6.5
Monroe	68.4	67.8	68.4	6.7	5.1	4.8	9.8	7.6	7.0
New Orleans	593.1	600.7	602.7	55.8	46.0	43.8	9.4	7.7	7.3
Shreveport	161.3	155.7	158.4	16.2	13.3	12.8	10.0	8.5	8.1
Maine	603.5	629.2	625.2	16.0	19.1	19.3	2.6	3.0	3.1
Lewiston-Auburn	40.9	41.3	42.2	1.4	1.8	1.9	3.3	4.4	4.5
Portland	127.8	134.4	134.0	2.0	2.8	2.8	1.5	2.1	2.1

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
Maryland	2,449.2	2,566.8	2,541.6	109.6	99.5	103.4	4.5	3.9	4.1
Baltimore	1,176.9	1,223.1	1,211.0	57.7	53.0	54.6	4.9	4.3	4.5
Massachusetts¹	3,125.3	3,243.1	3,111.9	93.9	126.2	133.8	3.0	3.9	4.3
Boston	1,539.3	1,583.7	1,521.4	41.2	55.3	57.7	2.7	3.5	3.8
Brockton	98.3	103.3	99.9	3.4	4.9	5.4	3.5	4.7	5.4
Fall River	76.2	77.9	75.1	3.4	4.3	4.7	4.4	5.5	6.3
Fitchburg-Leominster	46.3	47.9	46.2	1.8	2.7	2.7	3.9	5.5	5.9
Lawrence-Haverhill	186.6	193.0	187.5	7.9	10.4	11.5	4.2	5.4	6.1
Lowell	150.8	158.1	152.2	5.2	7.1	7.8	3.5	4.5	5.2
New Bedford	85.4	88.4	85.0	3.4	4.5	4.9	4.0	5.1	5.7
Pittsfield	40.2	42.3	39.7	1.9	1.7	1.7	4.8	3.9	4.4
Springfield	248.1	254.6	245.3	7.6	10.3	10.9	3.0	4.1	4.4
Worcester	219.4	232.9	224.2	5.8	8.8	9.4	2.6	3.8	4.2
Michigan¹	4,611.3	4,766.5	4,688.9	306.2	317.0	349.5	6.6	6.7	7.5
Ann Arbor	163.8	164.5	164.8	5.9	7.2	8.0	3.6	4.4	4.9
Battle Creek	64.8	66.8	66.0	4.0	4.5	5.0	6.1	6.7	7.6
Benton Harbor	79.1	82.0	79.8	4.9	5.7	6.7	6.2	7.0	8.5
Detroit	2,208.0	2,280.6	2,245.2	151.2	159.8	178.3	6.8	7.0	7.9
Flint	192.8	193.4	191.5	25.6	18.0	18.8	13.3	9.3	9.8
Grand Rapids	365.0	377.6	372.5	16.6	18.7	19.3	4.5	5.0	5.2
Jackson	65.9	68.8	67.5	4.4	4.5	4.8	6.6	6.5	7.1
Kalamazoo	119.2	120.2	121.3	5.5	5.7	6.3	4.6	4.8	5.2
Lansing-East Lansing	242.9	247.0	243.8	12.3	12.6	14.7	5.1	5.1	6.0
Muskegon	69.5	70.9	69.9	5.6	5.9	7.3	8.0	8.4	10.4
Saginaw-Bay City-Midland	186.1	192.2	190.5	11.7	12.5	13.8	6.3	6.5	7.2
Minnesota	2,330.5	2,382.0	2,353.3	84.9	93.0	95.3	3.6	3.9	4.1
Duluth	105.4	107.7	106.8	5.7	5.5	5.7	5.4	5.1	5.4
Minneapolis-St. Paul	1,386.2	1,434.9	1,407.8	46.4	51.6	54.0	3.3	3.6	3.8
Rochester	61.3	63.1	62.1	1.5	1.7	1.8	2.5	2.6	2.9
St. Cloud	95.0	94.3	94.4	3.9	3.7	3.7	4.1	3.9	3.9
Mississippi	1,144.1	1,171.3	1,167.4	108.7	85.8	83.0	9.5	7.3	7.1
Jackson	198.2	204.9	205.1	13.3	10.6	10.3	6.7	5.2	5.0
Missouri	2,595.5	2,634.6	2,634.7	134.4	125.3	135.7	5.2	4.8	5.1
Kansas City	841.6	855.8	845.0	43.6	37.3	40.7	5.2	4.4	4.8
St. Louis LMA	1,256.5	1,276.4	1,268.4	66.6	63.6	65.6	5.3	5.0	5.2
Springfield	125.2	126.4	127.6	5.2	5.1	5.8	4.1	4.0	4.5
Montana	402.4	412.0	401.9	22.9	20.4	20.4	5.7	5.0	5.1
Nebraska	818.7	825.1	811.0	26.0	25.3	23.3	3.2	3.1	2.9
Lincoln	127.5	125.6	126.6	3.1	3.1	2.9	2.4	2.5	2.3
Omaha	325.6	327.4	322.5	11.8	12.0	11.2	3.6	3.7	3.5
Nevada	595.5	601.4	599.6	25.4	27.4	30.1	4.3	4.5	5.0
Las Vegas	347.2	351.6	352.3	16.3	17.0	18.1	4.7	4.8	5.1
Reno	142.7	141.2	139.4	5.1	5.6	6.4	3.6	4.0	4.6
New Hampshire	611.7	639.6	626.8	15.1	22.8	25.1	2.5	3.6	4.0
Manchester	85.3	86.5	85.6	2.0	2.9	3.4	2.3	3.3	3.9
Nashua	99.3	100.1	99.1	3.3	4.1	4.9	3.3	4.1	5.0
Portsmouth-Dover-Rochester	134.6	139.1	134.0	2.2	3.7	3.8	1.6	2.7	2.8
New Jersey¹	3,941.0	4,034.6	3,973.6	133.7	170.9	170.9	3.4	4.2	4.3
Atlantic City	183.6	197.4	187.0	7.1	8.2	9.0	3.9	4.2	4.8
Bergen-Passaic	709.8	721.8	718.1	21.3	27.5	28.5	3.0	3.8	4.0
Jersey City	269.1	272.1	271.3	15.4	17.9	18.3	5.7	6.6	6.7
Middlesex-Somerset-Hunterdon	557.1	575.5	564.8	13.4	19.2	16.9	2.4	3.3	3.0
Monmouth-Ocean	476.2	503.1	484.3	14.2	18.6	18.9	3.0	3.7	3.9
Newark	939.1	954.7	945.6	33.9	45.3	43.9	3.6	4.7	4.6
Trenton	170.7	170.4	170.3	4.4	6.1	6.0	2.6	3.6	3.5
Vineland-Millville-Bridgeton	57.4	58.8	58.1	3.4	3.8	3.8	5.9	6.4	6.6
New Mexico	692.4	695.1	693.3	50.4	45.9	42.3	7.3	6.6	6.1
Albuquerque	266.7	267.0	264.1	15.5	14.5	12.9	5.8	5.4	4.9
Las Cruces	56.1	57.3	57.1	4.0	3.9	3.6	7.2	6.9	6.3
Santa Fe	66.4	67.8	66.3	3.0	2.4	2.5	4.6	3.5	3.7

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P	Sept. 1988	Aug. 1989	Sept. 1989 ^P
New York¹	8,512.6	8,734.3	8,595.0	354.0	421.5	447.8	4.2	4.8	5.2
Albany-Schenectady-Troy	421.0	440.7	432.9	14.0	16.6	17.5	3.3	3.8	4.0
Binghamton	127.5	127.9	127.3	4.3	5.3	6.0	3.4	4.1	4.7
Buffalo	451.8	463.3	458.8	20.7	26.6	26.1	4.6	5.7	5.7
Elmira	41.9	44.2	43.4	1.5	1.7	2.2	3.6	3.8	5.1
Nassau-Suffolk	1,424.5	1,459.1	1,431.3	47.7	63.5	65.3	3.4	4.4	4.6
New York	3,902.6	3,979.2	3,922.1	182.6	209.9	227.3	4.7	5.3	5.8
New York City	3,224.6	3,282.1	3,243.4	162.6	184.3	200.4	5.0	5.6	6.2
Orange County	133.6	139.3	135.8	4.7	6.7	7.3	3.5	4.8	5.4
Poughkeepsie	129.0	131.4	129.2	3.3	3.8	4.3	2.6	2.9	3.4
Rochester	502.7	516.9	507.0	16.7	20.2	20.6	3.3	3.9	4.1
Syracuse	315.4	319.4	316.9	12.0	12.6	13.7	3.8	4.0	4.3
Utica-Rome	137.3	140.2	137.8	5.5	5.8	6.5	4.0	4.1	4.7
North Carolina¹	3,352.4	3,484.0	3,445.4	103.9	121.4	120.9	3.1	3.5	3.5
Asheville	88.3	93.1	90.8	2.1	2.6	2.9	2.4	2.8	3.2
Charlotte-Gastonia-Rock Hill	635.1	669.6	660.3	19.3	21.1	21.4	3.0	3.2	3.2
Greensboro-Winston-Salem-High Point	523.8	529.8	527.1	14.2	18.5	17.7	2.7	3.5	3.4
Raleigh-Durham	402.8	419.2	416.0	9.3	10.6	11.2	2.3	2.5	2.7
North Dakota	328.4	341.3	330.8	14.0	13.6	13.9	4.3	4.0	4.2
Bismarck	45.6	48.5	47.2	1.8	1.8	2.1	4.0	3.6	4.4
Fargo-Moorhead	83.7	86.9	85.6	2.1	2.3	2.2	2.5	2.6	2.6
Grand Forks	34.8	36.0	35.2	1.4	1.8	1.4	4.1	4.9	4.1
Ohio¹	5,286.8	5,517.2	5,460.3	301.7	260.6	268.6	5.7	4.7	4.9
Akron	324.8	335.6	336.5	17.9	15.0	15.4	5.5	4.5	4.6
Canton	188.0	198.7	196.2	11.5	11.0	11.1	6.1	5.6	5.7
Cincinnati	760.7	806.8	799.4	36.5	32.0	32.1	4.8	4.0	4.0
Cleveland	921.6	964.5	951.4	47.9	39.9	41.7	5.2	4.1	4.4
Columbus	703.2	742.2	734.3	32.8	29.4	31.5	4.7	4.0	4.3
Dayton-Springfield	467.3	486.5	486.0	24.0	21.2	22.2	5.1	4.4	4.6
Toledo	309.4	321.3	323.4	17.7	16.5	18.0	5.7	5.1	5.6
Youngstown-Warren	222.0	228.8	227.5	15.6	13.4	13.9	7.0	5.9	6.1
Oklahoma	1,534.0	1,555.9	1,526.1	95.7	76.4	78.4	6.2	4.9	5.1
Enid	28.4	29.0	27.8	1.4	1.1	1.2	5.1	3.9	4.2
Lawton	48.4	50.5	48.9	2.7	2.1	2.2	5.6	4.1	4.4
Oklahoma City	500.2	501.0	490.3	26.5	21.2	22.3	5.3	4.2	4.5
Tulsa	342.2	354.0	346.2	23.3	17.5	18.5	6.8	5.0	5.3
Oregon	1,411.4	1,452.8	1,419.9	73.9	69.0	66.7	5.2	4.8	4.7
Eugene-Springfield	140.0	143.0	141.4	8.2	6.7	6.9	5.8	4.7	4.9
Portland	635.6	658.9	644.8	26.7	26.6	26.6	4.2	4.0	4.1
Salem	133.9	140.7	134.6	6.1	6.3	5.9	4.5	4.5	4.4
Pennsylvania¹	5,881.0	5,919.1	5,862.4	297.3	233.0	236.9	5.1	3.9	4.0
Allentown-Bethlehem	330.8	334.6	333.6	13.5	12.4	13.5	4.1	3.7	4.1
Altoona	61.1	61.8	61.2	3.9	3.1	3.1	6.3	5.0	5.0
Beaver County	61.2	59.5	59.5	5.5	3.9	3.6	9.0	6.5	6.0
Erie	132.9	134.3	133.6	7.4	5.5	5.9	5.6	4.1	4.4
Harrisburg-Lebanon-Carlisle	326.7	334.0	332.1	13.9	10.5	12.7	4.2	3.2	3.8
Johnstown	95.8	98.7	96.7	6.2	6.5	6.0	6.5	6.5	6.2
Lancaster	222.9	227.2	224.1	7.6	5.9	6.1	3.4	2.6	2.7
Philadelphia	2,438.7	2,447.7	2,414.5	104.2	89.3	92.1	4.3	3.6	3.8
Pittsburgh	979.6	985.0	980.3	55.1	38.9	38.2	5.6	4.0	3.9
Reading	177.4	179.0	179.3	7.3	5.3	5.9	4.1	2.9	3.3
Scranton-Wilkes-Barre	363.7	368.4	361.4	20.4	17.0	17.4	5.6	4.6	4.8
Williamsport	60.5	60.9	60.6	3.1	2.9	3.0	5.1	4.7	4.9
York	222.3	224.8	222.5	9.4	9.6	7.7	4.2	4.3	3.5
Rhode Island	532.8	534.5	527.9	18.0	19.4	21.0	3.4	3.6	4.0
Pawtucket-Woonsocket-Attleboro	168.0	168.9	166.2	6.9	8.0	8.5	4.1	4.7	5.1
Providence	346.6	345.8	343.8	11.2	12.1	13.3	3.2	3.5	3.9
South Carolina	1,677.4	1,737.8	1,740.5	74.6	75.5	87.3	4.4	4.3	5.0
Charleston	229.0	240.6	238.9	9.4	9.0	10.1	4.1	3.8	4.2
Columbia	234.3	244.2	245.4	7.9	8.2	9.3	3.4	3.3	3.8
Greenville-Spartanburg	339.1	349.9	355.0	11.8	12.0	14.3	3.5	3.4	4.0
South Dakota	358.7	370.4	365.4	13.5	15.6	14.3	3.8	4.2	3.9
Rapid City	39.4	41.3	40.3	2.0	1.8	1.5	5.0	4.4	3.8
Sioux Falls	73.9	73.2	73.4	2.9	2.2	2.3	3.9	3.0	3.1

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		
	Sept. 1988	Aug. 1989	Sept. 1989 ^p	Sept. 1988	Aug. 1989	Sept. 1989 ^p	Sept. 1988	Aug. 1989	Sept. 1989 ^p
Tennessee	2,358.5	2,391.6	2,377.6	136.0	119.4	90.8	5.8	5.0	3.8
Chattanooga	213.5	217.8	216.3	12.3	10.4	9.1	5.8	4.8	4.2
Johnson City-Kingsport-Bristol	214.4	216.8	213.7	11.3	9.7	7.7	5.3	4.5	3.6
Knoxville	287.9	287.4	282.5	14.4	15.4	11.1	5.0	5.3	3.9
Memphis LMA	447.9	456.4	457.5	23.3	20.1	16.2	5.2	4.4	3.5
Nashville	522.9	519.5	519.1	23.5	19.6	15.9	4.5	3.8	3.1
Texas¹	8,340.5	8,452.3	8,265.6	591.0	609.7	521.0	7.1	7.2	6.3
Abilene	54.0	53.7	53.4	3.2	3.7	3.2	5.9	7.0	6.1
Amarillo	100.1	99.6	98.3	5.9	5.8	5.6	5.9	5.9	5.7
Austin	429.1	421.7	421.2	24.9	25.3	21.7	5.8	6.0	5.2
Beaumont-Port Arthur	163.4	165.4	161.5	16.2	15.3	12.7	9.9	9.2	7.9
Brazoria	83.5	86.1	84.1	6.4	6.4	5.5	7.6	7.4	6.6
Brownsville-Harlingen	98.5	102.9	98.3	12.1	13.7	11.1	12.3	13.3	11.3
Bryan-College Station	58.4	59.1	59.9	2.5	2.8	2.3	4.4	4.8	3.9
Corpus Christi	157.6	160.5	156.9	14.2	14.2	12.1	9.0	8.9	7.7
Dallas	1,467.4	1,474.1	1,442.9	83.0	89.1	75.6	5.7	6.0	5.2
El Paso	248.6	248.5	245.7	28.2	26.7	23.9	11.4	10.7	9.7
Fort Worth-Arlington	692.6	708.2	685.7	42.0	46.0	36.8	6.1	6.5	5.4
Galveston-Texas City	107.9	109.4	105.1	9.1	8.3	7.5	8.5	7.6	7.1
Houston	1,626.8	1,681.7	1,641.8	106.4	108.5	92.7	6.5	6.5	5.6
Killeen-Temple	96.3	98.2	95.8	7.5	7.5	6.4	7.8	7.6	6.7
Laredo	47.6	49.5	49.0	5.7	5.6	5.1	12.1	11.3	10.4
Longview-Marshall	80.2	81.4	78.9	6.6	7.2	6.2	8.3	8.9	7.9
Lubbock	114.6	116.2	114.6	5.8	6.5	5.1	5.0	5.6	4.5
McAllen-Edinburg-Mission	151.1	153.3	151.6	26.6	27.0	25.9	17.6	17.6	17.1
Midland	49.7	49.5	48.6	2.8	3.3	2.8	5.6	6.8	5.8
Odessa	53.4	52.6	51.5	4.1	4.9	4.0	7.6	9.3	7.7
San Angelo	45.6	44.8	44.4	2.8	2.7	2.6	6.1	6.1	5.8
San Antonio	611.6	615.1	600.9	48.4	48.7	41.9	7.9	7.9	7.0
Sherman-Denison	49.4	48.1	47.4	3.5	2.8	2.6	7.0	5.8	5.5
Texarkana	57.2	58.5	57.5	4.5	4.1	3.5	7.8	7.0	6.1
Tyler	74.5	75.8	74.4	5.6	5.6	5.1	7.6	7.4	6.9
Victoria	36.3	37.1	36.4	2.5	2.4	2.1	6.8	6.5	5.7
Waco	93.3	94.5	91.9	6.0	6.4	4.9	6.5	6.7	5.3
Wichita Falls	57.7	57.6	56.3	3.5	3.7	3.2	6.0	6.5	5.7
Utah	777.2	793.2	804.2	35.2	31.4	29.2	4.5	4.0	3.6
Provo-Orem	110.1	110.7	114.7	4.2	4.2	3.7	3.8	3.8	3.3
Salt Lake City-Ogden	506.9	518.6	523.1	22.8	19.5	18.7	4.5	3.8	3.6
Vermont	294.3	307.1	303.9	6.4	11.0	10.1	2.2	3.6	3.3
Burlington	74.3	76.3	76.0	1.4	2.3	2.0	1.8	3.0	2.7
Virginia	3,090.6	3,215.1	3,172.0	127.7	96.0	117.6	4.1	3.0	3.7
Charlottesville	67.7	67.2	67.0	2.1	1.6	1.7	3.2	2.4	2.5
Danville	53.1	53.9	54.7	3.7	2.5	3.5	6.9	4.6	6.5
Lynchburg	70.3	72.8	73.1	3.2	2.5	3.9	4.6	3.4	5.4
Norfolk-Virginia Beach-Newport News	614.9	632.9	624.0	31.2	22.4	28.5	5.1	3.5	4.6
Richmond-Petersburg	444.3	467.9	460.4	17.2	13.6	15.7	3.9	2.9	3.4
Roanoke	121.8	124.4	121.3	5.3	3.4	3.8	4.4	2.7	3.1
Washington	2,312.0	2,425.8	2,382.3	131.7	131.5	124.9	5.7	5.4	5.2
Seattle	1,020.0	1,096.2	1,071.7	46.6	45.5	46.4	4.6	4.1	4.3
West Virginia	733.0	774.0	770.4	70.6	57.1	62.2	9.6	7.4	8.1
Charleston	113.8	122.0	120.8	10.1	6.8	7.6	8.9	5.6	6.3
Huntington-Ashland	124.1	131.2	129.2	9.6	7.6	7.2	7.8	5.8	5.5
Parkersburg-Marietta	69.8	74.9	73.6	4.8	4.0	4.4	6.9	5.4	6.0
Wheeling	70.4	74.2	73.2	5.4	3.9	4.1	7.6	5.2	5.6
Wisconsin	2,589.3	2,636.3	2,633.0	90.2	101.1	107.5	3.5	3.8	4.1
Appleton-Oshkosh-Neenah	173.3	174.9	175.7	5.8	6.1	7.2	3.4	3.5	4.1
Eau Claire	72.9	73.2	74.5	2.4	2.5	2.7	3.2	3.5	3.7
Green Bay	107.4	111.8	112.0	3.9	4.0	4.5	3.6	3.6	4.0
Janesville-Beloit	73.3	74.1	73.6	2.6	4.8	3.9	3.6	6.5	5.3
Kenosha	57.6	54.0	54.8	2.1	4.1	4.6	3.6	7.6	8.4
La Crosse	57.6	59.6	60.2	1.8	1.8	2.0	3.2	3.1	3.3
Madison	222.4	226.4	225.6	5.6	5.7	5.8	2.5	2.5	2.6
Milwaukee	765.1	778.8	776.1	26.4	28.9	31.2	3.4	3.7	4.0
Racine	90.0	94.1	94.0	3.4	4.6	4.7	3.8	4.9	5.0
Wausau	61.6	64.2	64.0	2.1	2.3	2.6	3.4	3.6	4.1
Wyoming	231.6	226.1	222.8	12.9	13.5	12.5	5.6	6.0	5.6

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

² Not available.

^p = preliminary.

NOTE: Data refer to place of residence. Estimates for 1988 have been

benchmarked to 1988 Current Population Survey annual averages. Except in the 11 States designated by footnote 1, estimates for 1989 are provisional and will be revised when new benchmark information becomes available. Area definitions are published annually in the May issue of this publication.

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 over about 55,800 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 received 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 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 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: A Databook*, BLS Bulletin 2096.

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 55,800 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 55,800 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 ori-

gin 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 noninstitutional 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.

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	1330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	2333	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 present	729	53,200	2,600	11,500

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

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

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

Table B. Standard errors for major employment status categories

(in thousands)

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
Total, 16 years and over:		
Civilian labor force	275	212
Employed	293	224
Unemployed	136	140
Men, 20 years and over:		
Civilian labor force	173	151
Employed	186	163
Unemployed	93	95
Women, 20 years and over:		
Civilian labor force	211	155
Employed	212	160
Unemployed	83	87
Both sexes, 16 to 19 years:		
Civilian labor force	88	94
Employed	92	102
Unemployed	59	66
Black, 16 years and over:		
Civilian labor force	94	73
Employed	104	79
Unemployed	68	71
Men, 20 years and over:		
Civilian labor force	59	51
Employed	64	57
Unemployed	44	47
Women, 20 years and over:		
Civilian labor force	76	50
Employed	76	54
Unemployed	45	48
Both sexes, 16 to 19 years:		
Civilian labor force	36	40
Employed	33	38
Unemployed	30	33

errors for quarterly estimates of persons and families for use with the CPS earnings data.

Standard errors for estimated totals. Tables D and E provide generalized standard errors for monthly totals and for month-to-month change. The figures given in these tables are to be used for the characteristics as indicated.

Illustration. Assume that in a given month the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table D shows that the standard error on an estimate of 12,000,000 is about 174,000. The 68-percent confidence interval as shown by these data is from 11,826,000 to 12,174,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table E, the standard error on a month-to-month change of 400,000, when the monthly level is approximately 12,000,000, is about 129,000.

Standard errors for rates and percentages. The reliability of an estimated unemployment rate or an estimated percentage, computed using sample data for both numerator and denominator, depends upon both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more

Table C. Standard errors for unemployment rates by major characteristics

Characteristic	Standard error of—		Characteristic	Standard error of—	
	Monthly level	Consecutive-month change		Monthly level	Consecutive-month change
Total (all civilian workers)	0.11	0.12			
Men, 20 years and over . . . . .	.15	.15			
Women, 20 years and over . . . . .	.16	.17			
Both sexes, 16 to 19 years . . . . .	.67	.81			
White workers . . . . .	.11	.12			
Black workers . . . . .	.51	.54			
Married men, spouse present . . . . .	.15	.17			
Married women, spouse present . . . . .	.19	.21			
Full-time workers . . . . .	.12	.12			
Part-time workers . . . . .	.34	.42			
Unemployed 15 weeks and over . . . . .	.06	.07			
			Occupation—Continued		
			Precision production, craft, and repair	0.32	0.36
			Machine operators, assemblers, and inspectors . . . . .	.49	.55
			Transportation and material moving . . . . .	.59	.66
			Handlers, equipment cleaners, helpers, and laborers . . . . .	.72	.82
			Farming, forestry, and fishing . . . . .	.68	.76
			Industry		
			Nonagricultural private wage and salary workers . . . . .	.12	.13
			Mining	1.63	1.86
			Construction . . . . .	.65	.75
			Manufacturing . . . . .	.26	.29
			Durable goods . . . . .	.33	.37
			Nondurable goods . . . . .	.42	.47
			Transportation, communications, and public utilities . . . . .	.42	.48
			Wholesale and retail trade . . . . .	.27	.30
			Finance and services . . . . .	.20	.22
			Government workers . . . . .	.23	.25
			Agricultural wage and salary workers	1.16	1.32
Occupation					
Executive, administrative, and managerial . . . . .	.22	.24			
Professional specialty . . . . .	.19	.21			
Technicians and related support . . . . .	.47	.52			
Sales . . . . .	.29	.33			
Administrative support, including clerical . . . . .	.23	.26			
Private household	1.18	1.33			
Protective service . . . . .	.76	.85			
Service, except private household and protective . . . . .	.39	.43			

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 ¹								
	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	-	-	-	-	-

¹ 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 ¹							
	Unemployment				Labor force data other than unemployment and agricultural employment			
	Total or white	Both sexes 16 to 19 years, or part-time labor force ²	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			

¹ See footnote 1, table D.

² 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 144

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 1987 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. ¹	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. ²	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. ²	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. ²	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. ²	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.

¹ 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.

² 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 1987 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 ¹		
		Number of estab- lish- ments	Number (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	2,482	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	(³)	2,964	100
State	4,151	4,883	3,406	82
Local	10,541	15,459	6,707	64

¹ 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.

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

³ 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

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.

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 ¹	Relative error ²	
		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 ³ . . . . .	.3	—	—

¹ The average percent revision in employment for the 1984-88 benchmarks.

² Relative errors relate to 1982 data.

³ 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.

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 ¹	Relative error ² (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

¹ Assuming 12-month intervals between benchmark revisions.

² 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

Sub-State monthly labor force and unemployment estimates in over 2,600 labor market areas (LMA's) are prepared in several stages.

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 now calculated only for the first 6 months after benchmarking. A second set of projected seasonal adjustment factors, for use during the subsequent period, will be computed based upon data through September and introduced with the publication of data for October. Revisions of historical data for the most recent 5 years will continue to be made once a year, coincident with benchmark revisions, and published in a *Supplement to Employment and Earnings*.

The BLS is also working on an extension to 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 (as well as for the occasional effects of Labor Day in the September survey reference period). If this research proves successful, this extension will be introduced for the computation of the seasonal adjustment factors to be published in November 1989.

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.

Revised seasonally adjusted establishment-based series based on the experience through March 1989, new seasonal adjustment factors for April-September, and a description of the current seasonal adjustment procedure appear in the June 1989 issue of *Employment and Earnings*.

**U.S. DEPARTMENT OF LABOR
Bureau of Labor Statistics**

Regional Office	Cooperating State Agencies	
	Current Employment Statistics (CES) and State and Local Area Unemployment Statistics (LAUS) Programs	
	BLS Region	BLS Region
REGION I—BOSTON Suite 1603 John Fitzgerald Kennedy Federal Building Boston, MA 02203 Phone: (617) 565-2327	IV ALABAMA Department of Industrial Relations, Room 427, Industrial Relations Bldg., Montgomery 36130	VIII MONTANA Department of Labor and Industry, P.O. Box 1728, Helena 59624
REGION II—NEW YORK Room 808 201 Varick Street New York, NY 10014 Phone: (212) 337-2400	X ALASKA Department of Labor, Research and Analysis Section, 1111 West 8th St., Juneau 99802-5501	VII NEBRASKA Department of Labor, P.O. Box 94600, Lincoln 68509-4600
REGION III—PHILADELPHIA 3535 Market Street P.O. Box 13309 Philadelphia, PA 19101 Phone: (215) 596-1154	IX ARIZONA Department of Economic Security, 1300 West Washington St., Phoenix 85005	IX NEVADA Employment Security Department, 500 East 3rd St., Carson City 89713
REGION IV—ATLANTA Suite 540 1371 Peachtree Street, NE Atlanta, GA 30367 Phone: (404) 347-4416	VI ARKANSAS Department of Labor, Research and Statistics Section, Capitol Mall, Little Rock 72203-2981	I NEW HAMPSHIRE Department of Employment Security, 32 South Main St., Concord 03301
REGION V—CHICAGO 9th Floor 230 South Dearborn Street Chicago, IL 60604 Phone: (312) 353-1880	IX CALIFORNIA Employment Development Department, Employ- ment Data and Research Division, 7000 Franklin Blvd., Bldg. 1100, Sacramento 95823	II NEW JERSEY Department of Labor, Division of Planning and Research, P.O. Box 2765, Trenton 08625
REGION VI—DALLAS Room 221 Federal Building 525 Griffin Street Dallas, TX 75202 Phone: (214) 767-6970	VIII COLORADO Division of Labor and Employment, 3rd Fl., 1330 Fox St., Denver 80204	VI NEW MEXICO Employment Security Commission, 401 Broad- way, TIWA Bldg., Albuquerque 87103
REGIONS VII and VIII— KANSAS CITY 15th Floor 911 Walnut Street Kansas City, MO 64106 Phone: (816) 426-2481	I CONNECTICUT Labor Department, Employment Security Division, 200 Folly Brook Blvd., Wethersfield 06109	II NEW YORK Department of Labor, Division of Research and Statistics, State Campus, Room 400, Bldg. 12, Albany 12240-0020
REGIONS IX and X— SAN FRANCISCO 71 Stevenson Street P.O. Box 3766 San Francisco, CA 94119 Phone: (415) 995-5605	III DELAWARE Department of Labor, Office of Occupational and Labor Market Information, P.O. Box 9029, Newark 19714-9029	IV NORTH CAROLINA Employment Security Commission, Labor Market Information Division, P.O. Box 25903, Raleigh 27611
	III DIST OF COL. Department of Employment Services, Division of Labor Market Information and Analysis, Room 201, 500 C St., NW, Washington, DC 20001	VIII NORTH DAKOTA Job Service, P.O. Box 1537, Bismarck 58502
	IV FLORIDA Florida Department of Labor and Employment Security, Bureau of Labor Market Information, Suite 203, 2574 Seagate Dr., Tallahassee 32399-0674	V OHIO Bureau of Employment Services, Labor Market Information Division, 1160 Dublin Rd., Columbus 43215
	IV GEORGIA Department of Labor, Labor Information Systems, 148 International Blvd., NE, Atlanta 30303	VI OKLAHOMA Employment Security Commission, Research and Planning Division, 2401 North Lincoln, Oklahoma City 73105
	IX HAWAII Department of Labor and Industrial Relations, Research and Statistics Office, Room 304, 830 Punchbowl St., Honolulu 96813	X OREGON Employment Division, 875 Union St., NE, Salem 97311
	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 Forsler 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)
	V INDIANA Department of Employment and Training Services, Statistical Services Division, 10 North Senate Avenue, Indianapolis 46204	I RHODE ISLAND Department of Employment Security, 24 Mason St., Providence 02903
	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
	V MICHIGAN Employment Security Commission, Research and Statistics Division, Room 516, 7310 Woodward Avenue, Detroit 48202	II VIRGIN ISLANDS Department of Labor, Bureau of Labor Statistics, 53-A, 54-A&B Kronprindsens Gade Charlotte Amalie, St. Thomas 00801-3359 (CES)
	V MINNESOTA Department of Jobs and Training, Research and Statistics Division, 5th Fl., 390 North Robert St., St. Paul 55101	X WASHINGTON Employment Security Department, Labor Market and Economic Analysis Branch, 605 Woodview Dr., Olympia 98503
	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
	VII MISSOURI Division of Employment Security, P.O. Box 59, Jefferson City 65104	V WISCONSIN Department of Industry, Labor, and Human Relations, Labor Market Information Bureau, 201 East Washington Avenue, Madison 53707
		VIII WYOMING Employment Security Commission, Research and Analysis Section, P.O. Box 2760, Casper 82602